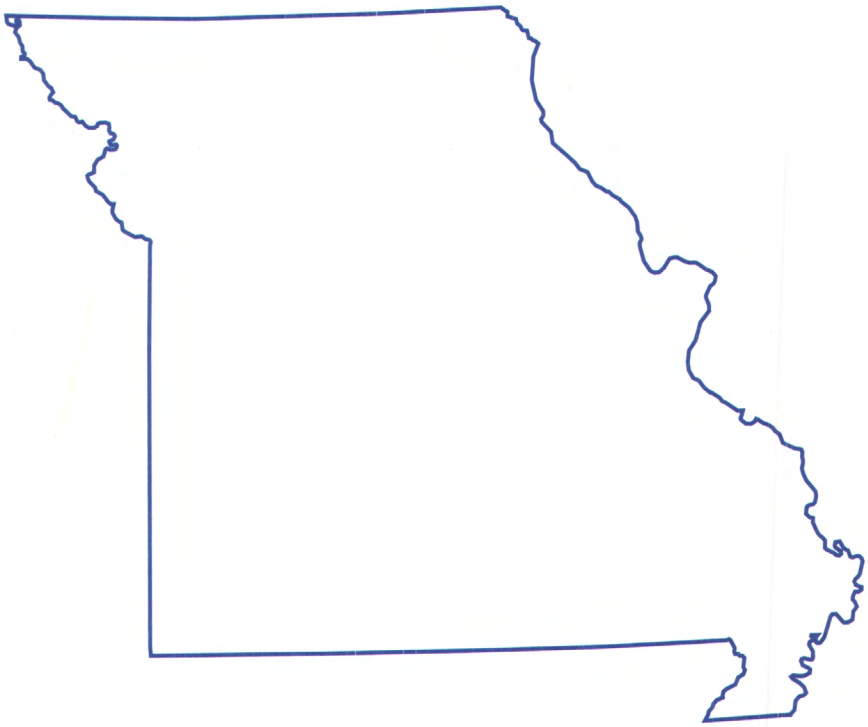
USGS
a changing world

BUREAU OF RECLAMATION DENVER LIBRARY
SURPLUS

er Resources Data
ouri
Vater Year 2001

LIBRARY
MAY - 3 2002
Bureau of Reclamation
Reclamation Service Center

ter-Data Report MO-01-1



Department of the Interior
Geological Survey

Prepared in cooperation with the
State of Missouri
and with other agencies

CALENDAR FOR WATER YEAR 2001

2000

OCTOBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

NOVEMBER

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

DECEMBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

2001

JANUARY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

FEBRUARY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

MARCH

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

APRIL

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

MAY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

JUNE

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

JULY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

AUGUST

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

SEPTEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

U.S. Department of the Interior
U.S. Geological Survey

Water Resources Data Missouri Water Year 2001

By H.S. Hauck and C.D. Nagel

Water-Data Report MO-01-1



Prepared in cooperation with the State of Missouri
and with other agencies.

U.S. DEPARTMENT OF THE INTERIOR

GALE A. NORTON, Secretary

U.S. GEOLOGICAL SURVEY

Charles G. Groat, Director

For information on the water program in Missouri write to:
District Chief, Water Resources Division
U.S. Geological Survey
1400 Independence Road - Mail Stop 100
Rolla, Missouri 65401

2002

PREFACE

This hydrologic-data report for Missouri is one of a series of annual reports that document hydrologic data collected from the U.S. Geological Survey's surface- and ground-water data collection networks in each State, Puerto Rico, and the Trust Territories. These records of surface water, surface-water quality, and ground-water levels provide the hydrologic information needed by local, State, and Federal agencies and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for ensuring that the information is accurate, complete, and adheres to U.S. Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

Gary L. Alexander	Suzanne R. Femmer	Matthew S. McCray	E. Scott Southern
Daniel J. Armstrong	H. Craig French	John W. Melton	Sherry A. Ternes
Miya N. Barr	Brett D. Giddens	Michael C. Moody	S. Scott Waldron
Kelly R. Brady	Thomas E. Harris	David J. Peyton	Vincent P. Walzem
Larry D. Buschmann	David C. Heimann	Bruce M. Ponzer	Robert E. Whitaker
Eric D. Christensen	Michael J. Kleeschulte	Joe M. Richards	Matthew E. Williams
Jerri V. Davis	Scott M. Kowalewich	Paul H. Rydlund	Don H. Wilkison
John C. Doyle	Floyd E. Lewis	Shelley L. Severn	Gary L. Wilson
Willie E. Easterling	Kathy M. Love	L. Carlene Shoemate	Lori D. Wilson
Hugh O. Edwards	Larry J. Lumpkin	Rodney E. Southard	Emitt C. Witt

Sherry A. Ternes and Miya N. Barr assembled the text of the report and Gary L. Wilson modified the illustrations in the report.

This report was prepared in cooperation with the State of Missouri and with other agencies under the general supervision of Loyd A. Waite, Hydrologic Surveillance Section Chief and Michael E. Slifer, District Chief, Missouri.

REPORT DOCUMENTATION PAGE

Form Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY *(Leave blank)*	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
	March 2002	Annual--Oct. 1, 2000 to Sept. 30, 2001

4. TITLE AND SUBTITLE
Water Resources Data--Missouri, Water Year 2001

5. FUNDING NUMBERS

6. AUTHOR(S)
H.S. Hauck and C.D. Nagel

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)
U.S. Geological Survey, Water Resources Division
Missouri District
1400 Independence Road, Mail Stop 100
Rolla, MO 65401

8. PERFORMING ORGANIZATION REPORT NUMBER
USGS-WDR-MO-01-1

9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)
U.S. Geological Survey, Water Resources Division
Missouri District
1400 Independence Road, Mail Stop 100
Rolla, MO 65401

10. SPONSORING / MONITORING AGENCY REPORT NUMBER
USGS-WDR-MO-01-1

11. SUPPLEMENTARY NOTES
Prepared in cooperation with Federal, State, and local agencies

12a. DISTRIBUTION / AVAILABILITY STATEMENT
No restriction on distribution. This report may be purchased from National Technical Information Service, Springfield, Virginia 22161.

12b. DISTRIBUTION CODE

13. ABSTRACT *(Maximum 200 words)*

The U.S. Geological Survey, Water Resources Division, in cooperation with local, State, and Federal agencies and organizations, obtains a large quantity of data pertaining to the water resources of Missouri each water year (October 1 to September 30). These data, accumulated during the water years, constitute a valuable data base for developing an improved understanding of the water resources of Missouri.

Water-resources data for the 2001 water year for Missouri consist of records of stage, discharge, and water quality of streams; elevation, contents, and water quality of lakes and reservoirs. This volume contains discharge records for 162 gaging stations; elevation at 12 lakes and reservoirs; water quality at 112 sampling stations (including 2 lakes); and data for 39 crest-stage stations.

14. SUBJECT TERMS
*Missouri, *Hydrologic data, *Surface water, *Quality water, Gaging stations, Streamflow, Flow rates, Lakes, Reservoirs, Chemical analysis, Sediment, Water temperature, Water analysis, Water levels, Data collection

15. NUMBER OF PAGES
520

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
Unclassified			Unclassified

CONTENTS

	Page
Preface	iii
List of surface-water stations, in downstream order, for which records are published in this volume	vii
List of discontinued surface-water discharge or stage-only stations	xii
List of discontinued surface-water-quality stations	xv
Introduction	1
Cooperation	1
Water Use--1995	2
Missouri Water-Use Fact Sheet	2
Physiography	4
Summary of Hydrologic Conditions	4
Surface Water--Streamflow	4
Water Quality--Streamflow	7
Special Networks and Programs	8
Explanation of the Records	8
Station Identification Numbers	9
Downstream Order and Station Number	9
Numbering System for Wells and Miscellaneous Sites	9
Records of Stage and Water Discharge	9
Data Collection and Computation	10
Data Presentation	11
Station manuscript	11
Data table of daily mean values	12
Statistics of monthly mean data	12
Summary statistics	12
Identifying Estimated Daily Discharge	13
Accuracy of Data and Computed Results	13
Other Data Available	14
Records of Surface-Water Quality	14
Classification of Records	14
Arrangement of Records	14
On-site Measurements and Sample Collection	15
Water Temperature	15
Sediment	15
Laboratory Measurements	15
Quality Assurance of Water-Quality Data	16
Data Presentation	16
Remark Codes	16
Dissolved Trace-Element Concentrations	17
Water Quality-Control Data	17
Access to USGS Water Data	18
Definition of Terms	18
Publications on Techniques of Water-Resources Investigations	31
Surface-water station records	38
Partial-record surface-water stations	486
Analyses of samples collected at water-quality partial-record stations	493
Index	495

ILLUSTRATIONS

			Page
Figure	1.	Graph showing source and use values and percentages for major offstream water-use categories in Missouri during 1995	3
	2.	Map showing major drainage basins, physiographic areas, and areas of mean discharge during the 2001 water year	5
	3.	Graphs showing comparison of 2001 water-year mean discharge to long-term mean discharge	6
	4.	Diagram showing system for numbering miscellaneous sites (latitude and longitude)	9
	5.	Map showing location of surface-water stations	35
	6.	Map showing location of surface-water-quality stations	36
	7.	Map showing location of Metropolitan St. Louis Sewer District stations	37
	8.	Map showing location of partial-record stations (surface and quality water)	485

TABLES

			Page
Table	1.	Comparisons of peak discharge for the 2001 water year with those for period of record for selected stations	4
	2.	Comparisons of the 2001 water year 7-day low flows to 7-day, 2-year low flows and minimum flows for the period of record at selected stations	7
	3.	Range of dissolved-solids concentrations in selected streams during the 2001 water year	7
	4.	Minimum and maximum daily mean suspended-sediment concentrations at two selected stations during the 2001 water year	7

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

[Letter after station name designates type of data: (d) discharge, (c) chemical, (m) microbiological, (t) water temperature, (s) sediment, and (e) elevation and/or contents]

	Station Number	Page
UPPER MISSISSIPPI RIVER BASIN		
Mississippi River:		
DES MOINES RIVER BASIN		
Des Moines River at St. Francisville (s)	05490600	38
FOX RIVER BASIN		
Fox River at Wayland (d,c,m)	05495000	39
WYACONDA RIVER BASIN		
Wyaconda River above Canton (d)	05496000	42
FABIUS RIVER BASIN		
North Fabius River at Monticello (d)	05497000	43
Middle Fabius River near Monticello (d)	05498000	44
Troublesome Creek near Ewing (c,m)	05499900	45
South Fabius River near Taylor (d,c,m)	05500000	47
NORTH RIVER BASIN		
North River at Palmyra (d)	05501000	52
BEAR CREEK BASIN		
Bear Creek at Hannibal (d)	05502000	53
SALT RIVER BASIN		
North Fork Salt River at Hagers Grove (d)	05502300	54
North Fork Salt River near Shelbina (d)	05502500	55
Crooked Creek near Paris (d)	05503800	56
South Fork Salt River above Santa Fe (d)	05504800	57
Long Branch near Santa Fe (d)	05506100	58
Middle Fork Salt River near Holliday (d)	05506350	59
Elk Fork Salt River near Madison (d)	05506800	60
Lick Creek at Perry (d)	05507600	61
Mark Twain Lake near Center (e)	05507700	62
Salt River near Center (d)	05507800	64
Salt River near New London (d)	05508000	65
Spencer Creek below Plum Creek near Frankford (d)	05508805	66
CUIVRE RIVER BASIN		
Cuivre River near Troy (d,c,m)	05514500	67
DARDENNE CREEK BASIN		
Dardenne Creek at O'Fallon (d)	05514840	70
Dardenne Creek at Old Town St. Peters (d)	05514860	71
Burgermeister Spring near Weldon Spring (d,c)	384304090441801	72
Mississippi River at Grafton, IL (d)	05587450	75
Mississippi River below Grafton, IL (c,m,s)	05587455	76
MISSOURI RIVER BASIN		
Missouri River at Rulo, NE (d)	06813500	84
Davis Creek at Mound City (d)	06815555	85
Squaw Creek near Mound City (d)	06815575	87
NODAWAY RIVER BASIN		
Nodaway River near Graham (d,c,m)	06817700	88
Missouri River at St. Joseph (d,c,m)	06818000	92
PLATTE RIVER BASIN		
Platte River:		
One Hundred and Two River at Maryville (d)	06819500	95
Platte River near Agency (d)	06820500	96
Smithville Reservoir near Smithville (e)	06821140	97
Little Platte River at Smithville (d)	06821150	98
Platte River at Sharps Station (d,c,m)	06821190	99
KANSAS RIVER BASIN		
Kansas River at DeSoto, KS (d)	06892350	102

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

	Station Number	Page
MISSOURI RIVER BASIN--Continued		
Missouri River at Kansas City (d)	06893000	103
BLUE RIVER BASIN		
Blue River at Kansas City (d,c,m,t)	06893500	104
Brush Creek at Ward Parkway in Kansas City (d)	06893557	110
Brush Creek at Rockhill Road in Kansas City (d,c,m,t)	06893562	111
Blue River at 12th Street in Kansas City (d)	06893590	118
LITTLE BLUE RIVER BASIN		
Longview Reservoir at Kansas City (e)	06893791	119
Blue Springs Reservoir near Blue Springs (e)	06893885	120
Little Blue River near Lake City (d)	06894000	121
Missouri River at Waverly (d)	06895500	122
GRAND RIVER BASIN		
Middle Fork Grand River near Grant City (c,m)	06896187	123
East Fork Grand River at Allendale (c,m)	06896320	125
East Fork Big Creek near Behany (d)	06897000	127
Grand River near Gallatin (d)	06897500	128
Thompson River near Mt. Moriah (c,m)	06898100	129
Weldon River at Princeton (c,m)	06898800	131
Thompson River at Trenton (d)	06899500	133
No Creek near Dunlap (c,m)	06899580	134
Medicine Creek at Harris (c,m)	06899950	136
Medicine Creek at Laredo (d)	06900050	138
Little Medicine Creek near Harris (c,m)	06900100	139
Locust Creek near Unionville (c,m)	06900900	141
Locust Creek near Linneus (d)	06901500	143
Grand River near Sumner (d,c,m)	06902000	145
CHARITON RIVER BASIN		
Chariton River at Livonia (d)	06904050	150
Chariton River at Novinger (d)	06904500	151
Chariton River near Prairie Hill (d,c,m)	06905500	152
Musselfork near Mystic (c,m)	06905725	155
LITTLE CHARITON RIVER BASIN		
East Fork Little Chariton River:		
Long Branch Creek at Atlanta (d)	06906150	157
Long Branch Reservoir near Macon (e)	06906190	158
East Fork Little Chariton River near Macon (d)	06906200	159
East Fork Little Chariton River near Huntsville (d,c,m)	06906300	160
Missouri River at Glasgow (d)	06906500	163
LAMINE RIVER BASIN		
Lamine River near Otterville (d)	06906800	164
Lamine River near Pilot Grove (c,m)	06907300	165
Blackwater River at Blue Lick (d)	06908000	167
Missouri River at Boonville (d)	06909000	168
MOREAU RIVER BASIN		
Moreau River near Jefferson City (d)	06910750	169
OSAGE RIVER BASIN		
Little Osage River at Horton (d)	06917060	170
Marmaton River below Nevada (d)	06918065	171
Osage River above Schell City (d,c,m)	06918070	172
Sac River near Dadeville (d)	06918440	176
Turnback Creek above Greenfield (d)	06918460	177
Little Sac River:		
South Fork Little Dry Sac River near Springfield (d)	06918493	178
Little Sac River near Walnut Grove (c,m)	06918600	179
Little Sac River near Morrisville (d)	06918740	181
Stockton Lake near Stockton (e)	06918990	182
Sac River at Highway J below Stockton (d)	06919020	183
Cedar Creek near Pleasant View (d)	06919500	184
Sac River near Caplinger Mills (d)	06919900	185

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

	Station Number	Page
MISSOURI RIVER BASIN--Continued		
OSAGE RIVER BASIN--Continued		
Pomme De Terre River near Polk (d,c,m)	06921070	186
Lindley Creek near Polk (d)	06921200	188
Pomme de Terre Lake near Hermitage (e)	06921325	189
Pomme de Terre River near Hermitage (d)	06921350	190
South Grand River below Freeman (c,m)	06921582	191
South Grand River near Clinton (d)	06921760	195
Harry S Truman Reservoir at Warsaw (e)	06922440	196
Osage River below Harry S Truman Dam at Warsaw (d)	06922450	197
Niangua River below Bennett Springs (c,m)	06923700	198
Niangua River at Tunnel Dam near Macks Creek (d)	06923950	200
Lake of the Ozarks near Bagnell (e)	06925500	201
Osage River near Bagnell (d)	06926000	202
Osage River below St. Thomas (d,c,m)	06926510	203
GASCONADE RIVER BASIN		
Gasconade River near Hazelgreen (d)	06928000	206
Roubidoux Creek above Ft. Leonard Wood (d)	06928300	207
Roubidoux Creek below Ft. Leonard Wood (d)	06928430	208
Roubidoux Spring at Waynesville (c,m)	06928440	209
Big Piney River near Big Piney (d)	06930000	211
Big Piney River below Ft. Leonard Wood (d)	06930060	212
Big Piney River at Devil's Elbow (c,m)	06930450	213
Gasconade River above Jerome (c,m)	06930800	215
Little Piney Creek at Newburg (d)	06932000	217
Gasconade River at Jerome (d)	06933500	218
Gasconade River near Rich Fountain (d)	06934000	219
Missouri River at Hermann (d,c,m)	06934500	220
Bonhomme Creek near Ellisville (d)	06935755	226
Bonhomme Creek near Clarkson Valley (d,c,m)	06935770	227
Caulks Creek at Chesterfield (d)	06935830	232
Creve Coeur Creek at Chesterfield (d)	06935850	233
Creve Coeur Creek near Creve Coeur (d,c,m)	06935890	234
Fee Fee Creek near Bridgeton (d,c,m)	06935955	239
Missouri River at St. Charles (d)	06935965	245
Cowmire Creek at Bridgeton (d,c,m)	06935980	246
Mill Creek near Florissant (d)	06935997	251
Coldwater Creek near Hazelwood (d)	06936200	252
Coldwater Creek near Black Jack (d,c,m)	06936475	253
Spanish Lake Tributary near Black Jack (d)	06936530	258
LOWER MISSISSIPPI RIVER BASIN		
Watkins Creek at Bellefontaine Neighbors (d,c,m)	07001985	259
Maline Creek at Bellefontaine Neighbors (d,c,m)	07005000	264
Mississippi River at St. Louis (d,s)	07010000	269
River des Peres near University City (d,c,m)	07010022	273
River des Peres Tributary at Pagedale (d)	07010030	279
Engelholm Creek near Wellston (d,c,m)	07010035	280
Deer Creek at Maplewood (d)	07010086	285
Mckenzie Creek near Shrewsbury (d)	07010090	289
Gravois Creek near Mehlville (d,c,m)	07010180	290
Martigney Creek near Arnold (d)	07010208	295
MERAMEC RIVER BASIN		
Maramec Spring near St. James (c,m)	07010500	296
Meramec River near Steelville (d)	07013000	298
Huzzah Creek near Steelville (c,m)	07014000	299
Courtois Creek at Berryman (c,m)	07014200	301

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

	Station Number	Page
LOWER MISSISSIPPI RIVER BASIN--Continued		
MERAMEC RIVER BASIN--Continued		
Meramec River near Sullivan (d,c,m)	07014500	303
Bourbeuse River near High Gate (d)	07015720	306
Bourbeuse River above Union (c,m)	07016400	307
Bourbeuse River at Union (d)	07016500	309
Big River at Irondale (d)	07017200	310
Big River near Richwoods (d,c,m)	07018100	311
Big River at Byrnesville (d)	07018500	314
Meramec River near Eureka (d)	07019000	315
Kiefer Creek near Ballwin (d,c,m)	07019072	316
Williams Creek near Peerless Park (d,c,m)	07019090	321
Fishpot Creek at Valley Park (d,c,m)	07019120	326
Grand Glaize Creek near Manchester (d)	07019150	331
Sugar Creek at Kirkwood (d)	07019175	332
Grand Glaize Creek near Valley Park (d,c,m)	07019185	333
Yarnell Creek at Fenton (d)	07019195	339
Fenton Creek near Fenton (d,c,m)	07019220	340
Meramec River at Paulina Hills (c,m)	07019280	345
Mattese Creek near Mattese (d,c,m)	07019317	347
Mississippi River at Chester, IL (d,s)	07020500	352
SALINE CREEK BASIN		
South Fork Saline Creek near Perryville (d)	07020550	356
HEADWATER DIVERSION CHANNEL BASIN		
Castor River at Zalma (d,c,m)	07021000	357
Mississippi River at Thebes, IL (d,c,m,s)	07022000	360
ST. FRANCIS RIVER BASIN		
St. Francis River near Mill Creek (d)	07035800	369
St. Francis River near Saco (c,m)	07036100	370
Big Creek at Des Arc (d)	07037000	372
Big Creek at Sam A. Baker State Park (c,m)	07037300	373
St. Francis River near Patterson (d)	07037500	375
Wappapello Lake at Wappapello (e)	07039000	376
St. Francis River at Wappapello (d)	07039500	378
Right Chute of Little River:		
St. Johns Ditch near Henderson Mound (c,m)	07042450	379
Little River Ditch 1 near Morehouse (d)	07043500	383
Little River Ditches near Rives (c,m)	07046250	384
WHITE RIVER BASIN		
White River:		
Roaring River:		
Roaring River Spring near Cassville (c,m)	07050150	388
James River:		
Jones Branch near Springfield (d)	07050680	390
Pearson Creek near Springfield (d,c,m)	07050690	391
James River near Springfield (d)	07050700	394
Wilson Creek at Springfield (d)	07052000	395
Wilson Creek near Springfield (d)	07052100	396
South Creek near Springfield (d)	07052120	397
Wilson Creek near Brookline (c,m)	07052152	398
Wilson Creek near Battlefield (d,c,m)	07052160	400
James River near Boaz (c,m)	07052250	403
James River at Galena (d,c,m)	07052500	406
Flat Creek at Jenkins (c,m)	07052800	409
Table Rock Lake near Branson (e)	07053400	411
White River below Table Rock Dam near Branson (c,t)	07053450	412
White River near Branson (d)	07053500	414
Lake Taneycomo at College of the Ozarks (c,t)	07053600	415

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

	Station Number	Page
LOWER MISSISSIPPI RIVER BASIN--Continued		
WHITE RIVER BASIN--Continued		
Lake Taneycomo at Branson (c,m)	07053700	417
Bull Creek near Walnut Shade (d)	07053810	420
Swan Creek near Swan (c,m)	07053900	421
Beaver Creek at Bradleyville (d)	07054080	423
North Fork River near Tecumseh (d,c,m)	07057500	424
Bryant Creek below Evans (c,m)	07057750	427
Bryant Creek near Tecumseh (d)	07058000	429
West Fork Black River at Centerville (c,m)	07061150	430
East Fork Black River near Ironton (c,m)	07061260	432
Black River near Annapolis (d)	07061500	434
Black River below Annapolis (c,m)	07061600	435
Logan Creek at Ellington (d)	07061900	437
Clearwater Lake near Piedmont (e)	07062000	438
Black River at Poplar Bluff (d)	07063000	439
Current River:		
Jacks Fork above Alley Spring (c,m)	370857091265901	440
Jacks Fork at Alley Spring (d)	07065495	441
Alley Spring below Alley (c,m)	370901091262001	442
Mahans Creek above Eminence (c,m)	370911091223201	443
Jacks Fork at Eminence (d,c,m)	07066000	445
Jacks Fork ab 2nd Unnamed Hollow bl Eminence (c,m)	370905091204001	447
Jacks Fork above Lick Log Hollow below Eminence (c,m)	371014091201301	448
Jacks Fork above Two Rivers (c,m)..	07066110	450
Jacks Fork above Powell Spring above Two Rivers (c,m)	371026091183301	452
Shawnee Creek above Two Rivers (c,m)	371019091180101	453
Jacks Fork above L. Shawnee Creek above Two Rivers (c,m)	371020091174101	454
Jacks Fork bl 3rd Unnamed Hollow above Two Rivers (c,m)	371054091173501	455
Current River at Van Buren (d)	07067000	456
Big Spring near Van Buren (d,c,m)	07067500	457
Current River at Doniphan (d,c,m)	07068000	460
Little Black River below Fairdealing (c,m)	07068510	463
Eleven Point River:		
Greer Spring at Greer (d,c,m)	07071000	465
Eleven Point River near Bardley (d,c,m)	07071500	468
ARKANSAS RIVER BASIN		
Arkansas River:		
Neosho River:		
Spring River near Waco (d)	07186000	471
Center Creek near Smithfield (c,m)	07186480	472
Turkey Creek near Joplin (c,m)	07186600	474
Shoal Creek above Joplin (d)	07187000	476
Big Sugar Creek near Powell (d)	07188653	477
Indian Creek near Lanagan (d)	07188885	478
Patterson Creek near Tiff City (c,m)	07188950	479
Elk River near Tiff City (d,c,m)	07189000	481
Buffalo Creek at Tiff City (d)	07189100	484

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Missouri have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Discontinued project stations with less than three years of record have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

[Letters after station name designate type of data collected: (d) discharge and (e) elevation (stage only)]

Station name	Type of record	Station number	Drainage area (mi^2)	Period of record
Middle Fabius River near Baring	(d)	05497500	185	1930-1961
North River at Bethel	(d)	05500500	58.0	1930-1973
Oak Dale Branch near Emden	(d)	05503000	2.64	1955-1975
North Fork Salt River near Hunnewell	(d)	05503500	626	1931-1940, 1979-1988
Youngs Creek near Mexico	(d)	05506000	67.4	1930-1982
Middle Fork Salt River at Duncan's Bridge	(d)	05506190	200	1980-1982
Elk Fork Salt River near Paris	(d)	05507000	262	1930-1954, 1980-1982
Salt River near Monroe City	(d)	05507500	2,230	1939-1981
Calumet Creek near Clarksville	(d)	05509700	15.7	1965-1972
Tarkio River at Fairfax	(d)	06813000	508	1922-1990
Mill Creek at Oregon	(d)	06816000	4.90	1950-1976
Nodaway River near Burlington Junction	(d)	06817500	1,240	1922-1983
Platte River at Ravenwood	(d)	06818900	486	1921-1923, 1924-1925, 1928-1932, 1958-1971
White Cloud Creek near Maryville	(d)	06820000	6.06	1948-1970
Jenkins Branch at Gower	(d)	06821000	2.72	1950-1976
Line Creek at Riverside	(d)	06821280	19.2	1975-1981
Brush Creek at Main Street in Kansas City	(d)	06893560	14.8	1970-1979
Rock Creek at Independence	(d)	06893600	5.20	1967-1974
Shoal Creek at Claycomo	(d)	06893670	29.8	1975-1981
L. Blue River bl Longview Dam at Kansas City	(d)	06893793	50.3	1966-1999
East Fork L. Blue River near Blue Springs	(d)	06893890	34.4	1974-1999
East Fork Fishing River at Excelsior Spring	(d)	06894500	20.0	1950-1972
Sni-A-Bar Creek near Tarsney	(d)	06894680	29.1	1970-1979
Crooked River near Richmond	(d)	06895000	159	1948-1970
Wakenda Creek at Carrollton	(d)	06896000	248	1948-1970
Thompson Branch near Albany	(d)	06896500	5.58	1955-1972
Thompson River at Mount Moriah	(d)	06898100	891	1960-1977
Weldon River near Mercer	(d)	06898500	246	1939-1959
Weldon River at Mill Grove	(d)	06899000	494	1929-1972
Shoal Creek near Braymer	(d)	06899700	391	1957-1977
Medicine Creek near Galt	(d)	06900000	225	1921-1975, 1977-1990
West Yellow Creek near Brookfield	(d)	06902200	135	1959-1977
Hamilton Branch near New Boston	(d)	06902500	2.51	1955-1972
Mussel Fork near Musselfork	(d)	06906000	267	1948-1951, 1962-1990
Thomas Hill Lake near Thomas Hill	(e)	06906350	147	1966-1974
Middle Fork Chariton River below Salisbury	(d)	06906470	201	1964-1970
Burge Branch near Arrow Rock	(d)	06906600	0.33	1959-1973
Flat Creek near Sedalia	(d)	06906700	148	1958-1967
Lamine River at Clifton City	(d)	06907000	598	1922-1971
South Fork Blackwater near Elm	(d)	06907500	16.6	1954-1979
Blackwater River at Valley City	(d)	06907700	547	1958-1973
Shiloh Branch near Marshall	(d)	06908500	2.87	1952-1965
Moniteau Creek near Fayette	(d)	06909500	81	1948-1969
Petite Saline Creek near Boonville	(d)	06910000	182	1948-1967
Hinkson Creek at Columbia	(d)	06910230	44.8	1964-1976, 1986-1991

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Type of record	Station number	Drainage area (mi^2)	Period of record
Cedar Creek near Columbia	(d)	06910410	70.2	1966-1982, 1987-1991
Chesapeake Spring at Chesapeake	(d)	06918444	--	1926, 1932, 1936, 1954, 1963-1968
Oak Grove Branch near Brighton	(d)	06918700	1.30	1956-1975
Little Sac River at Aldrich	(d)	06918800	304	1967-1968
Pomme de Terre River near Bolivar	(d)	06921000	225	1950-1969
Pomme de Terre River at Hermitage	(d)	06921500	655	1921-1965
South Grand River at Archie	(d)	06921590	356	1969-1986
South Grand River at Urich	(d)	06921600	670	1960-1969
Big Creek at Blairstown	(d)	06921720	414	1960-1974
Brushy Creek near Blairstown	(d)	06921740	1.15	1960-1975
South Grand River near Brownington	(d)	06922000	1,660	1921-1971
Big Buffalo Creek near Stover	(d)	06922800	24.2	1965-1977
Niangua River near Windyville	(d)	06923250	338	1991-1996
Bennett Spring at Bennett Springs	(d)	06923500	--	1916-1920, 1928-1941, 1965-1995
Niangua River near Decaturville	(d)	06924000	627	1929-1969
Starks Creek at Preston	(d)	06925200	4.18	1956-1976
Van Cleve Branch near Meta	(d)	06926200	0.75	1956-1972
Osage River near St. Thomas	(d)	06926500	14,500	1931-1996
Maries River at Westphalia	(d)	06927000	257	1947-1970
Big Hollow near Fulton	(d)	06927200	4.05	1957-1972
Osage Fork Gasconade River at Drynob	(d)	06927800	404	1962-1981
Laquey Branch near Hazlegreen	(d)	06928200	1.58	1958-1972
Gasconade River near Waynesville	(d)	06928500	1,680	1914-1971
Beeler Branch near Cabool	(d)	06928700	7.78	1967-1976
Little Beaver Creek near Rolla	(d)	06931500	6.45	1947-1975
Loutre River at Mineola	(d)	06935500	202	1947-1967
Coldwater Creek near St. Louis	(d)	06936500	43.6	1959-1965
Meramec River at Cook Station	(d)	07010350	199	1965-1981
Maramec Spring near St. James	(d)	07010500	--	1903-1906, 1921-1929, 1965-1986
Green Acre Branch near Rolla	(d)	07011500	0.62	1947-1975
Bourbeuse River near St. James	(d)	07015000	21.3	1947-1981
Lanes Fork near Rolla	(d)	07015500	0.225	1952-1971
Bourbeuse River near Spring Bluff	(d)	07016000	608	1943-1981
Dry Branch near Bonne Terre	(d)	07017500	3.35	1955-1975
Sandy Creek near Pevely	(d)	07019690	32.5	1966-1968, 1969-1972
Plattin Creek at Plattin	(d)	07019790	65.8	1965-1972
Saline Creek near Minnith	(d)	07020270	82.6	1968-1981
Brewers Creek near Ironton	(d)	07033800	2.19	1964-1966
St. Francis River near Roselle	(d)	07034000	234	1983-1997
Little St. Francis River at Fredericktown	(d)	07035000	90.5	1983-1997
Barnes Creek near Fredericktown	(d)	07035500	3.35	1955-1975
St. Francis River near Saco	(d)	07036100	664	1983-1997
Clark Creek near Piedmont	(d)	07037700	4.39	1956-1976
Little River Ditch 81 near Kennett	(d)	07041000	111	1926-1979
Little River Ditch 1 near Kennett	(d)	07042000	235	1926-1979
Little River Ditch 251 near Lilbourn	(d)	07042500	235	1945-1991
Castor River at Aquilla	(d)	07043000	175	1945-1981
Little River Ditch 251 near Kennett	(d)	07044000	883	1926-1979
Little River Ditch 66 near Kennett	(d)	07045000	--	1926-1979
Little River Ditch 66-A near Kennett	(d)	07045500	--	1927-1965

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Type of record	Station number	Drainage area (mi^2)	Period of record
Little River Ditch 259 near Kennett	(d)	07046000	89.0	1926-1979
Roaring River Spring near Cassville	(d)	07050150	--	1965-1968
James River near Strafford	(d)	07050580	165	1973-1986
Wilson Creek below Springfield	(d)	07052150	47.2	1967-1972
James River near Boaz	(d)	07052250	462	1972-1980
Hodgson Mill Spring at Sycamore	(d)	07057800	--	1965-1968
East Fork L. Black River near Lesterville	(d)	07061300	94.5	1960-1990
Black River near Leeper	(d)	07062500	987	1921-1994
Fudge Hollow near Licking	(d)	07064300	1.72	1956-1976
Montauk Springs at Montauk	(d)	07064400	--	1964-1968
Big Creek near Yukon	(d)	07064500	8.36	1949-1975, 1960-1990
Round Spring at Round Spring	(d)	07065000	--	1928-1939, 1965-1979
Alley Spring at Alley	(d)	07065500	--	1928-1939, 1965-1979
Current River near Eminence	(d)	07066500	1,272	1921-1975
Middle Fork Little Black River at Grandin	(d)	07068250	6.85	1980-1984
North Prong Little Black River near Grandin	(d)	07068300	39.4	1980-1984
Little Black River near Grandin	(d)	07068380	79.5	1980-1984
Little Black River below Fairdealing	(d)	07068510	194	1980-1986
Logan Creek at Oxly	(d)	07068540	37.5	1980-1984
Little Black River at Success, AR	(d)	07068600	386	1980-1986
Fourche River near Poynor	(d)	07068863	87.2	1976-1983
Eleven Point River near Thomasville	(d)	07070500	361	1950-1976
Stahl Creek near Miller	(d)	07185500	3.86	1950-1976
Spring River at La Russell	(d)	07185700	306	1947-1981
Spring River at Carthage	(d)	07185765	425	1966-1980
Center Creek near Carterville	(d)	07186400	232	1962-1991
Center Creek below Carl Junction	(d)	07186475	299	1993-1995
Turkey Creek near Joplin	(d)	07186600	41.8	1963-1972

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

The following surface-water-quality stations in Missouri have been discontinued or converted to partial-record stations. Water-quality data (daily or periodic samples with collection frequency not less than quarterly) were collected and published for the period of record shown for each station. Discontinued project stations with less than three years of record are not included. Information regarding these stations may be obtained from the District Chief at the address given on the back of the title page of this report.

[Type of record: (B) biological, (C) chemical, (M) microbiological, (S) sediment, (T) temperature]

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record
Mississippi River at Canton	05495150	--	C,T	1969-1975
Middle Fabius River near Monticello	05498000	393	S	1980-1986
North River at Palmyra	05501000	373	C	1972-1975
Mississippi River at Hannibal	05501600	--	C,M	1982-1989
North Fork Salt River near Shelbina	05502500	481	S	1988-1994
North Fork Salt River near Hunnewell	05503500	626	S	1980-1988
Middle Fork Salt River at Paris	05506500	356	S	1980-1997
Salt River near New London	05508000	2,480	C,M,T	1967-1975, 1977-1990
			S	1980-1997
Mississippi River at Alton, IL	05587500	171,500	S	1980-1985, 1986-1989
Mississippi River below Alton, IL	05587550	171,500	C,M	1975-1989
Nodaway River near Oregon	06817800	--	C,M	1968-1975, 1977-1989
Platte River at Platte City	06821200	--	C	1967-1975
Missouri River at Sibley	06894100	--	C,T	1972-1975
Thompson River near Chillicothe	06899620	--	C,M	1968-1975, 1983-1987
East Fork Little Chariton River near Macon	06906200	112	C	1971-1974
Middle Fork L. Chariton R. below Salisbury	06906470	201	C,M	1983-1986
Burge Branch near Arrow Rock	06906600	0.33	S	1961-1964
Lamine River near Blackwater	06908800	2,610	B,C,M,T	1979-1986
Missouri River at Boonville	06909000	505,700	T	1953-1959, 1960-1964
Hinkson Creek at Columbia	06910230	70.2	T	1987-1991
Cedar Creek near Columbia	06910410	44.8	C,M	1987-1991
Cedar Creek near Ashland	06910414	--	C,M	1983-1989
Marais Des Cygnes River near Worland	06916650	3,230	C,M	1962-1963, 1972-1975, 1977-1981
East Fork Drywood Creek at Prairie State Park	06917630	--	C,M	1994-1997
Sac River near Dadeville	06918440	257	C,M,T	1974-1978, 1980-1982, 1983-1987
Stockton Lake near Stockton	06918990	1,160	T	1974-1977
Pomme de Terre River near Hermitage	06921350	615	T	1974-1977
Pomme de Terre River at Hermitage	06921500	615	T	1970-1978
South Grand River at Urich	06921600	670	C,M	1983-1987
South Grand River near Clinton	06921760	1,270	S	1991-1999
West Fork Tebo Creek near Lewis	06922190		C,M	1983-1991
Trib. to Middle Fork Tebo Creek nr Leeton	06922075	--	C	1989-1992
Tebo Creek at Leesville	06922200	--	B,C,M,T	1978-1983
Osage River at Warsaw	06922500	11,500	T	1969-1978
Big Buffalo Creek near Stover	06922800	24.2	T	1965-1977
Big Buffalo Creek at Big Buffalo Wildlife Area	06922850	24.5	C.M	1994-1997
Dousinbury Creek near Wall Street	06923150	39.5	C.M	1993-1997
Niangua River near Windyville	06923250	338	C,M	1991-1995
Bennett Spring at Bennett Springs	06923500	--	C,M	1991-1993
Ha Ha Tonka Spring at Ha Ha Tonka State Park	06924500	--	C,M	1994-1996
Coakley Hollow Spr. Br. at Lake of the Ozarks	06925445	--	C,M	1994-1996
Gasconade River near Hooker	06928600	--	C,M	1977-1986
Missouri River near St. Louis	06935840	--	C,T	1969-1974
Paddy Creek above Slabtown Springs	06929318	338	C,M	1991-1995
Shanghai Spring near Waynesville	06930400		C,M	1994-1997

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Tye of record	Period of record
Mississippi River at East St. Louis, IL	07001000	--	C	1969-1973
Crooked Creek near Dillard	07013050	--	C	1982-1988
Coonville Creek at St. Francis State Park	07017605		C,M	1993-1997
Meramec River near Eureka	07019000	3,788	C,M	1978-1994
Pickle Creek at Hawn State Park	07020200	--	C,M	1994-1997
Mississippi River at Cape Girardeau	07020850	--	C,T	1969-1974
Headwater Diversion Channel near Allenville	07021800	--	C	1969-1975
Big Creek at Chloride	07036940	--	C	1969-1975, 1983-1990
St. Francis River at St. Francis, AR	07040100	--	C	1969-1975
Little River Ditch 1 near Morehouse	07043500	450	C,M	1996-1997
Little River Ditches near Kennett	07046001	--	C,M	1969-1970, 1972-1973, 1977-1989, 1992-1993
Roaring River at Roaring River State Park	07050152	--	C,M	1991-1993
James River near Nixa	07050750	273	T	1966-1975, 1977-1980
James River near Wilson Creek	07051600	--	C,M	1967-1982, 1983-1987
Wilson Creek near Springfield	07052100	31.4	C,T	1972-1982
Wilson Creek below Springfield	07052150	47.2	C,T	1967-1970, 1970-1972
James River west of Nixa	07052200	440	C	1962-1963, 1965-1967
Finley Creek at Riverdale	07052340	--	C	1967-1975
Double Spring near Dora	07057475	--	C,M	1994-1997
Black River at Poplar Bluff	07063000	1,245	C,M	1983-1987
Black River below Poplar Bluff	07063050	--	C	1969-1975
Main Ditch near Neelyville	07063300	--	C	1969-1975
Middle Fork Little Black River at Grandin	07068250	6.85	T	1980-1984
North Prong Little Black River near Grandin	07068300	39.4	C,M	1980-1984
Little Black River near Grandin	07068380	79.5	C,M,S,T	1980-1984
Logan Creek at Oxly	07068540	37.5	C,M,S,T	1980-1984
Little Black River near Naylor	07068550	--	C	1969-1975
Little Black River at Success, AR	07068600	386	C,M,S,T	1980-1986
Fourche River near Poynor	07068863	87.2	T	1976-1983
Fourche River near Middlebrook, AR	07068867	--	C	1969-1975
Spring River near Thayer	07069170	--	C	1969-1975
Mammoth Spring at Mammoth Spring, AR	07069200	--	C,M	1994-1996
Eleven Point River below Bardley	07071900	--	C	1969-1975
Spring River near Waco	07186000	1,164	C	1965-1975, 1977-1978, 1980-1981
Center Creek near Carterville	07186400	232	C,M	1980-1989
Shoal Creek above Joplin	07187000	427	C,M	1968-1968, 1979-1982
Shoal Creek near Galena, KS	07187560	--	C	1968-1975
Lost Creek at Seneca	07188500	42	C	1967-1975
Little Sugar Creek at Caverna	07188820	--	C	1967-1975
Buffalo Creek at Tiff City	07189100	--	C	1967-1975

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with local, State, and Federal agencies and organizations, obtains a large quantity of data pertaining to the water resources of Missouri each water year (October 1 to September 30). These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of Missouri. To make these data readily available to interested parties outside the U.S. Geological Survey, the data are published annually in this report series, entitled "WATER RESOURCES DATA - MISSOURI." This volume contains records for water discharge at 162 gaging stations; elevation at 12 lakes and reservoirs; water quality at 112 sampling stations (including 2 lakes); and data for 39 crest-stage stations.

Records of discharge and stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey Water-Supply Papers entitled, "Surface Water Supply of the United States." These Water-Supply Papers were in an annual series through September 30, 1960, and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperature, and suspended sediment were published from 1941 to 1970 in an annual series of Water-Supply Papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of Water-Supply Papers entitled, "Ground-Water Levels in the United States." Water-Supply Papers are in the libraries of the principal cities in the United States or may be purchased from the U.S. Geological Survey, Information Services, Federal Center, Box 25286, Denver, CO 80225.

For water years 1961 through 1974, streamflow data were released by the U.S. Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 similarly were released either in separate reports or in conjunction with streamflow records.

Beginning with water year 1975, water data for streamflow, water quality, and ground water are published in Survey reports on a State-boundary basis. These reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report MO-01-1."

For archiving and general distribution, the reports for water years 1971-74 also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on back of the title page or by telephone (573) 308-3667.

COOPERATION

The U.S. Geological Survey and State and local agencies and organizations in Missouri have had cooperative agreements for the systematic collection of streamflow records since 1921, and for water-quality records since 1964. Organizations that assisted in collecting data published in this report through cooperative agreements are:

City of Columbia
City of Perryville
City Utilities of Springfield
Holt County
Kansas City Water Service Department
Metropolitan St. Louis Sewer Dist.
Missouri Department of Conservation
Missouri Department of Natural Resources
  Division of Geologiy and Land Survey
  Division of Water Protection and
    Soil Conservation
  Water Pollution Control Program
Missouri Department of Transportation
St. Charles County Rivers and Streams Proj.

The following Federal, State, and local agencies and organizations assisted in the collection of data published in this report by providing funds or services:

Ameren UE Company of Missouri
National Park Service, Midwest Region
Sho-Me Power Electric Cooperative
U.S. Army Corps of Engineers
U.S. Department of Agriculture
  U.S. Forest Service
U.S. Department of the Army
U.S. Department of Commerce
  National Oceanic and
    Atmospheric Administration
  National Weather Service
U.S. Department of Energy
U.S. Fish and Wildlife Service

WATER USE--1995

Listed below are general water-use facts for the state of Missouri. The major water uses and percentage of offstream surface water and ground water for 1995 are shown in Figure 1.

MISSOURI WATER-USE FACT SHEET

1. Total offstream water use was 7,030 million gallons per day (Mgal/d).

2. Offstream surface-water use was 6,140 Mgal/d, about 87 percent of total offstream use. The largest use was in the St. Louis and Kansas City metropolitan areas.

3. Ground-water use was 890 Mgal/d, about 13 percent of total offstream use. The largest ground-water use was for irrigation in southeastern Missouri.

4. Consumptive use of freshwater was 692 Mgal/d, which was about 10 percent of total use. Irrigation consumptive use was about 61 percent of total consumptive use.

5. The largest offstream use of water was for thermoelectric power generation, about 5,550 Mgal/d (mostly surface water) to produce 63,600 gigawatt-hours of electricity.

6. An additional 161 Mgal/d of surface water was used for offstream hydroelectric power generation to produce 9.81 gigawatt-hours of electricity.

7. Total population was 5.32 million, an increase of 3.9 percent from 1990.

8. Per capita water use for all offstream use was 1,320 gallons per day.

9. Public water supplied was 699 Mgal/d; 68 percent surface water and 32 percent ground water.

10. Domestic water use was 433 Mgal/d; 13 percent self-supplied and 87 percent public-supplied.

11. Commercial water use was 73.2 Mgal/d; 19 percent self-supplied and 81 percent public-supplied.

12. Industrial water use was 179 Mgal/d; 22 percent self-supplied and 78 percent public-supplied.

13. Public use and losses were 125 Mgal/d, calculated from the total water withdrawals for public supply minus deliveries to domestic, commercial, industrial, and thermoelectric uses.

14. Mining water use was 24.0 Mgal/d, with about 10.8 Mgal/d being reclaimed/recycled wastewater.

15. The largest use of ground water was 535 Mgal/d for irrigation. Total irrigation water use was 567 Mgal/d.

16. Non-irrigation agriculture water use was 76.5 Mgal/d for aquaculture and livestock use.

17. About 2,448 municipal and other wastewater-treatment facilities released 1,030 Mgal/d of effluent.

18. The largest use of water in Missouri was for instream hydroelectric power generation, about 17,000 Mgal/d to produce 1,910 gigawatt-hours of electricity.

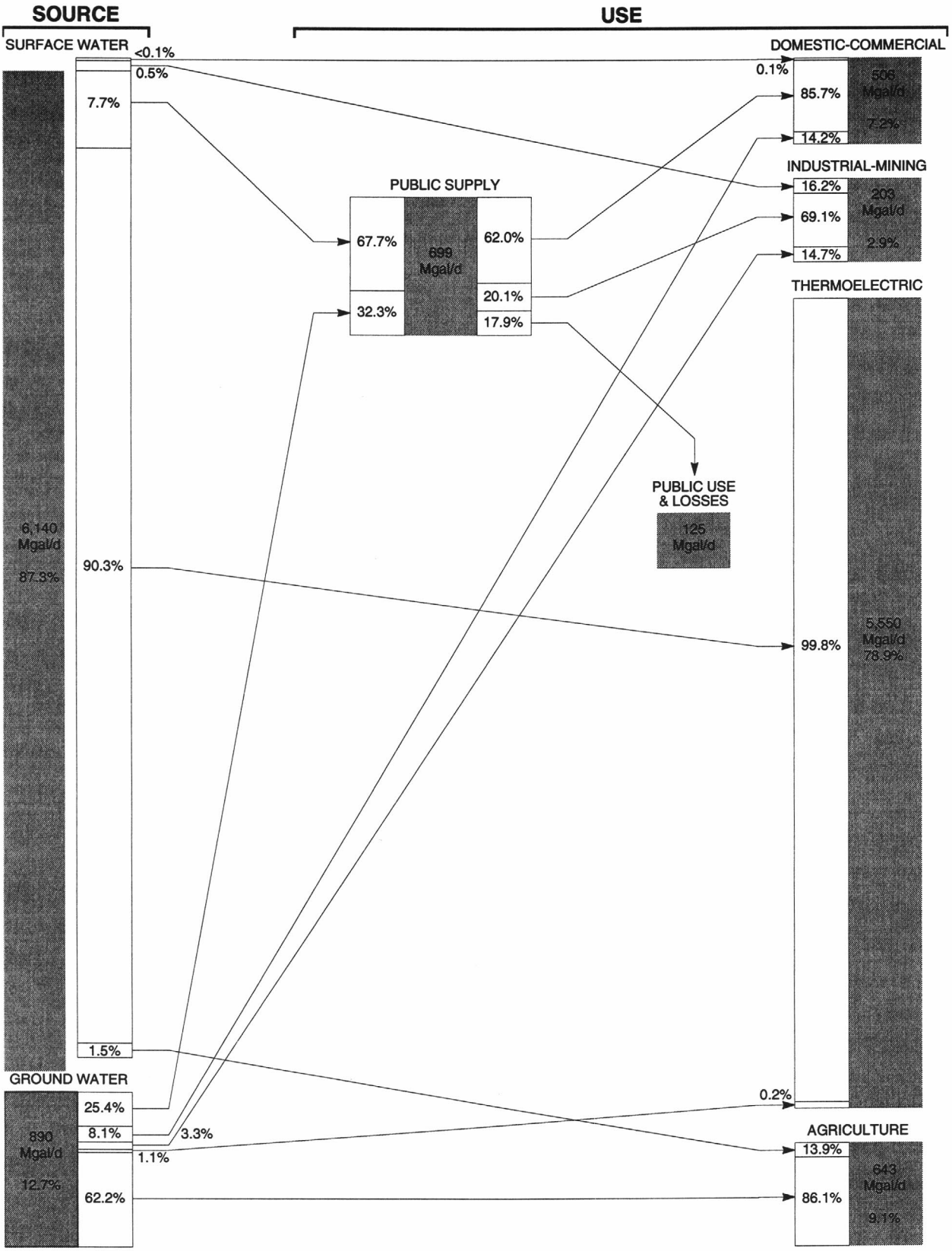


Figure 1. Source and use values and percentages for major offstream water-use categories in Missouri during 1995.

PHYSIOGRAPHY

Missouri has three distinct physiographic areas--the Central Lowland in the north and west, the Mississippi Alluvial Plain in the southeast, and between them the Ozark Plateaus (Figure 2).

The Central Lowland includes most of the area north of the Missouri River and a large area south of the river in the western part of the State. Elevations range from about 450 to 1,000 feet above sea level. The area has numerous wide, flat valleys incised by rivers.

The Ozark Plateaus in the southern part of the State is wooded, rugged, and has deep, narrow valleys with sharp ridges separating the valleys. Elevations range from about 1,000 to 1,600 feet above sea level.

The Mississippi Alluvial Plain (Bootheel) is a relatively flat area of about 3,000 square miles in the extreme southeast part of the State. Elevations range from about 200 to 300 feet above sea level. The area is well drained and contains excellent farmland.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface Water--Streamflow

Streamflow varies seasonally in Missouri and often reflects precipitation patterns unless the stream is regulated. Rainfall was below normal throughout the entire state during the months of October, November, December, March, and September. Missouri received above average precipitation during February, May, and June. In January rainfall was above normal except in the East Ozarks. April's precipitation was below normal except in the Northwest Prairie and the West Central Plains. Rainfall was above normal except in the Bootheel and the Northeast Prairie in July. August rainfall was below normal in the State except in the Northeast Prairie.

Typically the 2001 water year mean discharges were greater than long-term mean discharges north of the Missouri River and less than long-term mean discharges south of the Missouri River. Monthly discharges during the 2001 water year and long-term monthly mean discharges at six representative stations are shown in Figure 3.

Peak discharges for the 2001 water year are compared to the peak discharges for the period of record at 14 selected gaging stations in Table 1. The 7-day average low flow for the 2001 water year is compared to the 7-day, 2-year low flow and minimum flow for selected stations in Table 2. The 7-day, 2-year low flow is the 7-day average minimum flow with a recurrence interval of 2 years.

Table 1.--Comparisons of peak discharge for the 2001 water year with those for period of record for selected stations

Station identification		Peak discharge during 2001 water year: Cubic feet per second	Date	Peak discharge for period of record: Cubic feet per second	Date
05495000	Fox River at Wayland	9,800	May 15	26,400	Apr. 22, 1973
05587450	Mississippi River at Grafton, Ill.	367,000	May 19	598,000	Aug. 1, 1993
06893000	Missouri River at Kansas City	180,000	June 21	573,000	July 14, 1951
06894000	Little Blue River near Lake City	5,650	June 4	42,300	Aug. 13, 1982
06897500	Grand River near Gallatin	29,800	June 21	89,800	July 7, 1993
06905500	Chariton River near Prairie Hill	27,300	June 6	31,900	Apr. 23, 1973
06933500	Gasconade River at Jerome	30,400	Feb. 26	136,000	Dec. 5, 1982
06934500	Missouri River at Hermann	350,000	June 7	750,000	July 31, 1993
07010000	Mississippi River at St. Louis	612,000	June 10	1,080,000	Aug. 1, 1993
07019000	Meramec River near Eureka	23,900	Feb. 27	145,000	Dec. 6, 1982
07022000	Mississippi River at Thebes, Ill.	620,000	June 12	996,000	Aug. 7, 1993
07057500	North Fork River near Tecumseh	7,310	Feb. 25	133,000	Nov. 19, 1985
07068000	Current River at Doniphan	16,600	Feb. 26	122,000	Dec. 3, 1982
07186000	Spring River near Waco	19,300	Feb. 25	151,000	Sept. 26, 1993

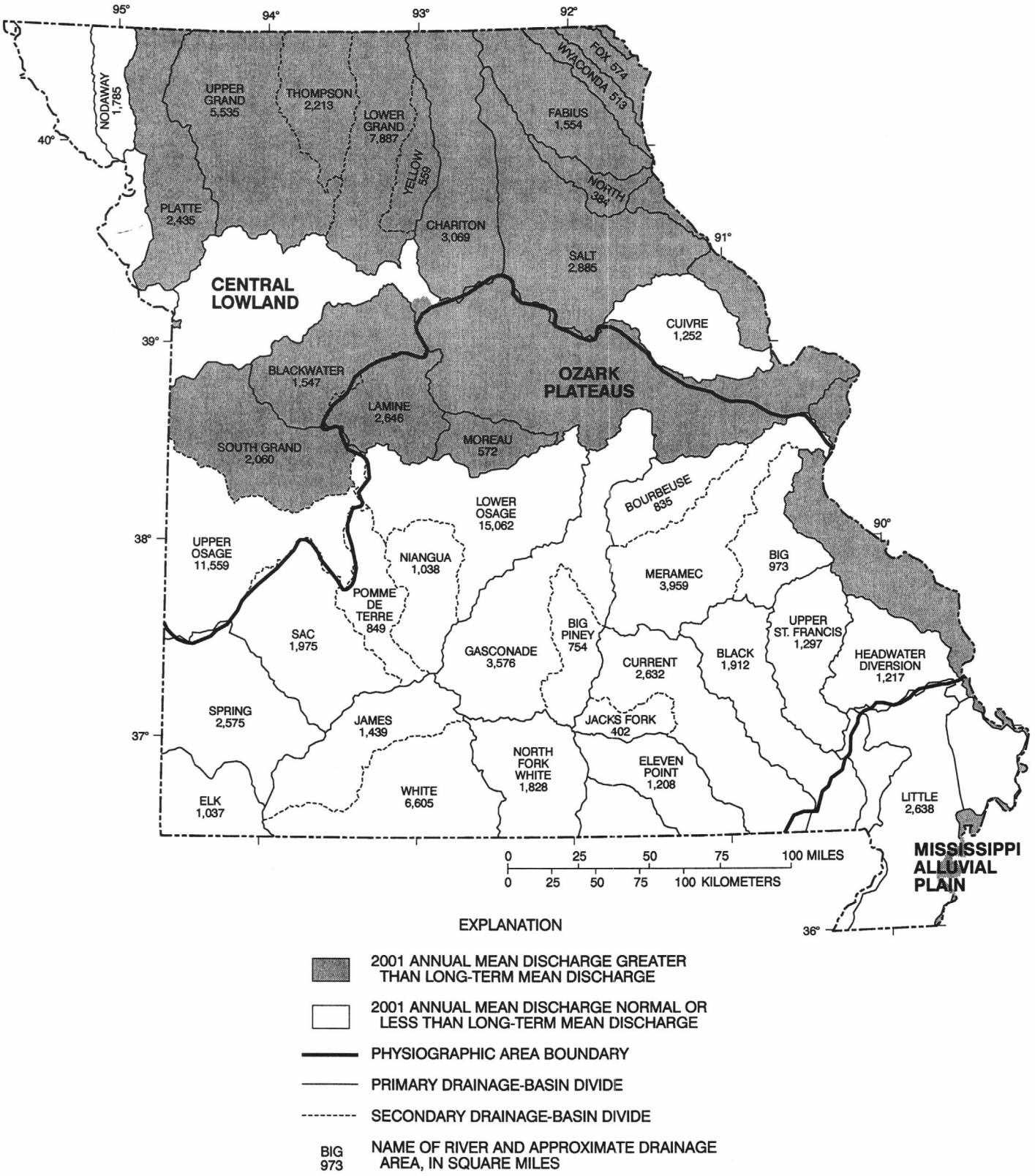


Figure 2. Major drainage basins, physiographic areas, and area of greater than mean long-term discharge during 2001.

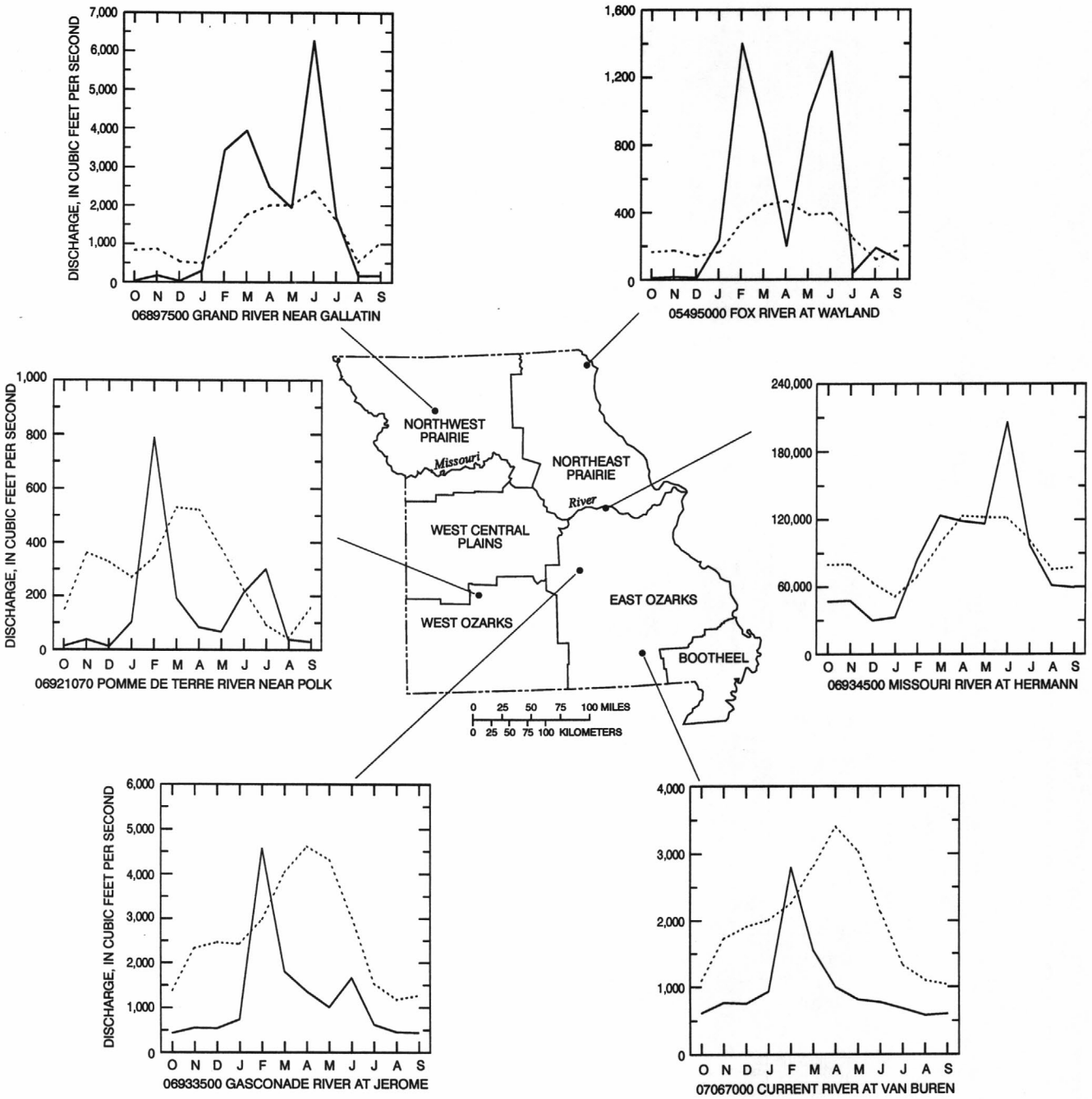


Figure 3. Comparison of 2001 water-year mean discharge to long-term mean discharge.

Table 2.--Comparisons of 2001 7-day low flows to 7-day, 2-year low flows and minimum flows for the period of record at selected stations

[Flows in cubic feet per second]

Station identification and period of record (water years) used	Average 7-day low flows		Minimum flows for period of record used	
	2001	2-year[1]	Discharge	Years of occurrence
05495000 Fox River at Wayland (1922-97)	7.1	1.3	0	Several years
06820500 Platte River near Agency (1933-97)	38	17	0	Several years
06921070 Pomme de Terre River near Polk (1969-97)	5.9	3.0	0.3	1980
07016500 Bourbeuse River at Union (1921-97)	22	32	13	1956
07067000 Current River at Van Buren (1912-97)	531	700	479	1956
07187000 Shoal Creek above Joplin (1942-97)	89	92	16	1954

[1] Skelton, John, 1976, Missouri stream and springflow characteristics--Low-flow frequency and flow duration: Rolla, Missouri Division of Geology and Land Survey Water Resources Report 32, 76 p.

Water Quality--Streamflow

Samples for determining the chemical quality of streamflow were collected at 109 stations in Missouri. Data collected at these stations, in addition to streamflow data, include some or all of the following properties or constituents: water temperature, specific conductance, dissolved oxygen, pH, carbonate, bicarbonate, alkalinity, inorganic constituents, nutrients, trace elements, indicator bacteria, sediment, and pesticides.

Missouri streams generally are not contaminated by industrial wastes. Localized contamination may occur near urban areas, industrialized centers, agricultural-chemical-use areas, and waste-dump sites.

Table 3.--Range of dissolved-solids concentrations in selected streams during the water year.

Station identification	Dissolved-solids concentration (milligrams per liter)	
	Minimum	Maximum
Cuivre River near Troy	247	256
Missouri River at St. Joseph	438	516
Grand River near Sumner	210	389
Osage River below St. Thomas	176	200
Gasconade River above Jerome	186	207
Missouri River at Hermann	188	525
Meramec River at Paulina Hills	210	302

Daily suspended-sediment samples and data on the particle size of suspended sediment were collected at four stations in Missouri. At three Missouri River stations, point suspended-sediment samples and particle-size data were collected periodically. The following table lists two selected stations on the Mississippi River at Grafton and Thebes, Ill. and their minimum and maximum daily mean suspended-sediment concentrations during water year.

Table 4.--Minimum and maximum daily mean suspended-sediment concentrations at two selected stations.

Station identification	Daily mean suspended-sediment concentration (milligrams per liter)	
	Minimum	Maximum
Mississippi River at Grafton, IL	49	640
Mississippi River at Thebes, IL	82	1,380

SPECIAL NETWORKS AND PROGRAMS

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations were operated in the Mississippi, Columbia, Colorado, and Rio Grande. From 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia so that a network of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program can be found at:

http://water.usgs.gov/nasqan/.

The Ambient Water-Quality Network (AWQN) is a statewide data-collection network designed by both the U.S. Geological Survey and the Missouri Department of Natural Resources to meet many of the information needs of State agencies and other groups involved in Statewide water-quality planning and management. There are currently 65 member stations within this network. Each station has been assigned a U.S. Geological Survey downstream station number under which all data are stored in NWIS (the U.S. Geological Survey national water-quality data base). The objectives of AWQN are (1) to obtain information on the quality and quantity of water moving within the State; (2) provide for a historical data base of water-quality information that can be used by State planning and management agencies to make informed decisions about cultural impacts on the State's surface waters; and (3) provide for consistent methodology in data collection, laboratory analysis, and data reporting.

Additional information about the AWQN Program is available through the World Wide Web at:

http://missouri.usgs.gov

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 59 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program can be found at:

http://water.usgs.gov/nawqa/nawqa_home.html

Radiochemical Programs is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

EXPLANATION OF THE RECORDS

The surface- and ground-water records published in this report are for the water year that began October 1, 2000, and ended September 30, 2001. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, and water-quality data for the surface water. The following sections of the introductory text are presented to provide users with a more detailed

explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether stream site or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The system used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water sites will differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells and, in Missouri, for surface-water stations where only miscellaneous measurements are made.

Downstream Order and Station Number

Since October 1, 1950, the order of listing hydrologic-station records in U.S. Geological Survey reports is in a downstream direction along the mainstream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. The downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 06909000, which appears just to the left of the station name, includes the 2-digit part number "06" plus the 6-digit downstream-order number "909000".

Numbering System for Wells and Miscellaneous Sites

The 8-digit downstream-order station numbers are not assigned to miscellaneous sites where only random water-quality samples or discharge measurements are taken. The miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the miscellaneous sites and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the sites within a 1-second grid (Figure 4).

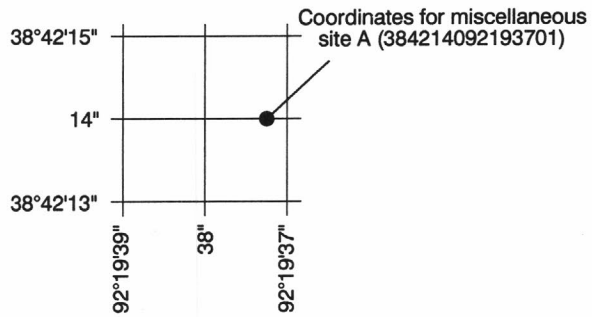


Figure 4. System for numbering miscellaneous sites (latitude and longitude).

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharge may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or any period of time. They may be obtained using a continuous stage-recording device, but need not be. Locations of surface-water stations are shown in Figure 5.

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report.

Data Collection and Computation

The data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from electronic retrieval of data via satellite from a data-collection platform at the gaging station, direct readings on a non-recording gage, or from a water-stage recorder that gives either an electronically stored value, a continuous graph of the fluctuations, or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the U.S. Geological Survey. These methods are described in standard textbooks, U.S. Geological Survey Water-Supply Paper 2175, and the U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI's) Book 3, Chapter A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge-relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements; computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some gaging stations, acoustic velocity meter (AVM) systems are used to compute discharge. The AVM system measures the stream's velocity at one or more paths in the cross section. Coefficients are developed to relate this path velocity to the mean velocity in the cross section. Because the AVM sensors are fixed in position, the adjustment coefficients generally vary with stage. Cross-sectional area curves are developed to relate stage, recorded as noted above, to cross-section area. Discharge is computed by multiplying path velocity by the appropriate stage related coefficient and area.

At some stream-gaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations, the stage-discharge relation is affected by ice in the winter and it becomes impossible to compute the discharge in the usual manner. Discharge for period of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1991 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of four parts: the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

Station manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that flow at it can reasonably be considered equivalent to flow at the present station.

REVISED RECORDS.--Because of new information, published records occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to sea level (see "DEFINITION OF TERMS" section), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily discharge will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See next section, "IDENTIFYING ESTIMATED DAILY DISCHARGE.") If a "REMARKS" paragraph is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph also is used to present information relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "REVISED RECORDS" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District Office (address given on the back of the title page of this report) to determine if the published records were ever revised after the station was discontinued. Of course, if the data for a discontinued station were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "REMARKS" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Headings for "AVERAGE DISCHARGE", "EXTREMES FOR PERIOD OF RECORD", and "EXTREMES FOR CURRENT YEAR" have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the "EXTREMES FOR CURRENT YEAR" paragraph, is now presented in the tabular summaries following the discharge table or in the "REMARKS" paragraph, as appropriate. No changes have been made to the data presentation of lake contents.

Data table of daily mean values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed "MEAN" gives the average flow in cubic feet per second for the month; and the lines headed "MAX" and "MIN" give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"); or in inches (line headed "IN."). The figure for cubic feet per second per square mile and runoff in inches may be omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR PERIOD OF RECORD, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the "PERIOD OF RECORD" paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "FOR PERIOD OF RECORD," will consist of all of the stations record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated "ANNUAL" (see line headings below), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the "REMARKS" paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the "REMARKS" paragraph or in footnotes.

Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments that follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1 - March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.--Indicates the total quanity of water in runoff for a drainage area for the year.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.--The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.--The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements generally are made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily value with the letter symbol "e" and printing a table footnote, "e Estimated", or by listing the dates of the estimated record in the "REMARKS" paragraph of the station description.

Accuracy of Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good", within 10 percent; and "fair", within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharge of less than 1.0 cubic foot per second; to tenths between 1.0 and 10 cubic feet per second; to whole numbers between 10 and 1,000 cubic feet per second; and to three significant figures above 1,000 cubic feet per second. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations, such as observations of water temperatures, discharge measurements, gage-height records, and rating tables, is on file in the District Office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the District Office.

The National Water Data Exchange, Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintains an index of all discharge measurement sites in the State as well as an index of records of discharge collected by other agencies but not published by the U.S. Geological Survey. Information on records available at specific sites can be obtained upon request.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always require corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of surface-water-quality stations are shown in Figure 6.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency or sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality records are published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-records stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern is ensuring that the data obtained represents the in-situ quality of water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To ensure that measurements made in the laboratory also represent the in-situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chapter D2; Book 3, Chapter A1, A3, and A4; Book 9, Chapter A1-A9. These references are listed in the "PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY" section of this report. These methods are consistent with the ASTM standards and generally follow ISO standards.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogenous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon bi-hourly readings beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the District Office.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once daily, the water temperatures are taken at about the same time each day. Large streams have a small daily temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, maximum, minimum, and mean temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations measured immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge. Methods used in the computation of sediment records are described in the TWRI Book 3, Chapters C1 and C3. These methods are consistent with ASTM standards and generally follow ISO standards.

The daily suspended-sediment concentrations for the Mississippi River at St. Louis are derived from turbidity readings from the Chain of Rocks Water-Treatment Plant and the Chouteau Island Water-Treatment Plant. Approximately once a week, two depth-integrated verticals are taken to adjust the relation between suspended sediment and turbidity.

Laboratory Measurements

Samples for indicator bacteria, specific conductance, pH, temperature, dissolved oxygen, and alkalinity are analyzed locally. All other samples are analyzed in the U.S. Geological Survey laboratories in Arvada, CO, Ocala, FL, and Rolla, MO. Methods used to analyze sediment samples and to compute sediment records are described in the TWRI Book 5, Chapter C1. Methods used by the U.S. Geological Survey

laboratories are given in TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, A4, and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

Quality Assurance of Water-Quality Data

Quality assurance is a system of activities whose purpose is to produce a product with the assurance that it meets defined standards of quality with a stated level of confidence. A quality assurance program became an integral part of the ambient water-quality monitoring network in fiscal year 1993. The program involved collecting additional samples to measure sampling repeatability, container cleanliness, and equipment cleanliness during regular site visits when environmental samples were being collected. The results of these additional samples are used by the District Water-Quality Specialist to define problem areas and eliminate further contamination of samples and/or improper sampling procedures. A data base of quality-assurance data has been created and contains all quality-assurance data collected within the District. These data can be retrieved by written request through the District Water-Quality Specialist.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, and biological data obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither "LOCATION" nor the "DRAINAGE AREA" statements are repeated. The following information, when appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge"; same comments apply.

DRAINAGE AREA.--See Data Presentation under "RECORDS OF STAGE AND WATER DISCHARGE"; same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor, temperature recorder, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made in the U.S. Geological Survey's distributed data system, NWIS, and subsequesntly to its web-based National data system, NWISWeb [http://water.usgs.gov/nwis/nwis]. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure the most recent updates. Updates to NWISWEB are currently made on an annual basis.

Remark Codes

The following remark codes may appear with the water-quality data in this report.

PRINTED OUTPUT	REMARK
<	Numeric result is less than the value shown.
K	Results based on colony count outside the acceptable range (non-ideal colony count).
E	Laboratory estimated value.
LA	Laboratory accident.
M	Presence of material verified, but not quantified.
e	Estimated discharge value.

*NOTE.--The National Water Quality Laboratory uses the E remark code in two cases. First, the code is used for reporting values less than the method detection limit (MDL) when the analyte has been conclusively identified. Second, the code is used for reporting values greater than the MDL when the value is substantially more uncertain than for other analytes

Dissolved Trace-Element Concentrations

Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (mg/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the mg/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at most stations in water year 1994.

Water Quality-Control Data

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this district are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this district are:

Field blank - a blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank - a blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank - a blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank - a blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank - a blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank - a blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank - a blank solution that is treated with the sampler preservatives used for an environmental sample.

Reference Samples

Reference material is a solution or material prepared by a laboratory whose composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. There are many types of replicate samples possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are:

Sequential samples - a type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample - a type of replicate sample in which a sample is split into subsamples contemporaneous in time and space.

Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at:

http://water.usgs.gov

Some water-quality and ground-water data also are available through the WWW at the above address. In addition, data can be provided on 3-1/2 inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District Offices (See address on the back of the title page.)

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Terms such as algae, water level, precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units on the inside of the back cover.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Acre-foot (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff")

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes ATP an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water that is discharged ("runs off") from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 to September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

Aroclor is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type and the last two digits represent the weight percent of the hydrogen substituted chlorine.

Artificial substrate is a device that is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection. (See also "Substrate")

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2). (See also "Biomass")

Bacteria are microscopic unicellular organisims, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peaks per year will be published.

Base flow is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

Bedload is material in transport that is supported primarily by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to an elevation equal to the top of the bedload sampler nozzle (ranging from 0.25 to 0.5 ft) that are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler may also contain a component of the suspended load.

Bedload discharge (tons per day) is rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also "Bedload" and "Sediment")

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed. (See also "Bedload" and "Sediment")

Benthic organisms are the group of organisms inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

Biomass pigment ratio is an indicator of the total proportion of periphyton which are autotrophic (plants). This is also called the Autotrophic Index.

Blue-green algae (*Cyanophyta*) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Bottom material (See "Bed material")

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, and are generally reported as cells or units per milliliter (mL) or liter (L).

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements on cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

sphere $4/3\ \pi r^3$ cone $1/3\ \pi r^3 h$ cylinder $\pi r^3 h$

pi is the ratio of the circumference to the diameter of a circle; pi = 3.14159…

From cell volume, total algal biomass expressed as biovolume ($\mu m^3/mL$) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes over all species.

Cfs-day (See "Cubic foot per second-day")

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also "Biochemical oxygen demand (BOD)"]

Clostridium perfringens *(C. perfringens)* is a spore-forming bacterium that is common in the feces of human and other warm-blooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and presence of microorganisms that are resistant to disinfection and environmental stresses. (See also "Bacteria")

Coliphages are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of waters and of the survival and transport of viruses in the environment.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well. (See also "Aquifer")

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Continuous-record station is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

Control designates a feature in the channel downstream from a gaging station that physically influences the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term "second-feet" sometimes is used synonymously with "cubic feet per second" but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, [$(ft^3/s)/d$]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily-mean discharges reported in the daily-value data tables are numerically equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM, $(ft^3/s)/mi^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also "Annual runoff")

Daily mean suspended-sediment concentration is the time-weighted concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also "Daily mean suspended-sediment concentration," "Sediment," and "Suspended-sediment concentration")

Daily-record station is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to periodic sample or data collection on a daily or near-daily basis.

Data Collection Platform (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

Data logger is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data are usually downloaded from onsite data loggers for entry into office data systems.

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or UTM coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Vertical Datum of 1929," and "North American Vertical Datum of 1988")

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or flow, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediments or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, etc., within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents such as suspended sediment, bedload, and dissolved or suspended chemical constituents, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of "dissolved" constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration in water is the quantity of dissolved material in a sample of water. It is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L $CaCO_3$) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index (H) (Shannon Index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface that contains a drainage system with a common outlet for its surface runoff. (See "Drainage area")

Dry mass refers to the mass of residue present after drying in an oven at 105 °C, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also "Ash mass," "Biomass," and "Wet mass")

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue. (See also "Wet weight")

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis, Streptococcus feacium, Streptococcus avium,* and their variants. (See also "Bacteria")

EPT Index is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that are generally considered pollution sensitive, the index usually decreases with pollution.

Escherichia coli (E. coli) are bacteria present in the intestine and feces of warm-blooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium. Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Estimated (E) value of a concentration is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an 'E' code will be reported with the value. If the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an 'E' code even though the measured value is greater than the MDL. A value reported with an 'E' code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<).

Euglenoids (*Euglenophyta*) are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark. (See also "Phytoplankton")

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semivolatile and extractable by ethyl acetate from air-dried streambed sediments. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediments.

Fecal coliform bacteria are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Fecal streptococcal bacteria are present in the intestine of warm-blooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Fire algae (*Pyrrhophyta*) are free-swimming unicells characterized by a red pigment spot. (See also "Phytoplankton")

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly larger than the maximum depth of water. Because the gage datum itself is not an actual physical object, the datum usually is defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any National geodetic datum. However, if the elevation of the gage datum relative to the National datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the National datum by adding the elevation of the gage datum to the gage reading.

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used in reference to a reading on a gage.

Gage values are values that are recorded, transmitted and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. *See NOAA web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Hilsenhoff's Biotic Index (HBI) is an indicator of organic pollution which uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = sum\frac{(n)(a)}{N}$$

where n is the number of individuals of each taxon, a is the tolerance value of each taxon, and N is the total number of organisms in the sample.

Horizontal datum (See "Datum")

Hydrologic benchmark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a benchmark station may be used to separate effects of natural from human-induced changes in other basins that have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

Hydrologic index stations referred to in this report are four continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the USGS. Each hydrologic unit is identified by an 8-digit number.

Inch (IN., in.), as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were uniformly distributed on it. (See also "Annual runoff")

Instantaneous discharge is the discharge at a particular instant of time. (See also "Discharge")

Laboratory Reporting Level (LRL) is generally equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a non-detection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually based on the most current quality-control data and may, therefore, change. [Note: In several previous NWQL documents (Connor and others, 1998; NWQL Technical Memorandum 98.07, 1998), the LRL was called the non-detection value or NDV—a term that is no longer used.)

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation

$$I = I_o e^{-\lambda L},$$

where I_o is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light attenuation coefficient is defined as

$$\lambda = -\frac{1}{L}\log_e\frac{I}{I_o}.$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Long-Term Method Detection Level (LT-MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. *See NOAA web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that are usually arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also "Daily mean suspended-sediment concentration" and "Suspended-sediment concentration")

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period. (See also "Discharge")

Mean high or low tide is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also "Datum")

Measuring point (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Method Detection Limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, µg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG, µg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

Microsiemens per centimeter (US/CM, µS/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of dry sediment per liter of water-sediment mixture.

Minimum Reporting Level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method (Timme, 1995).

Miscellaneous site, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It was formerly called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations, it does not necessarily represent local mean sea level at any particular place. *See NOAA web site: http://www.ngs.noaa.govfaq.shtml#WhatVD29VD88* (See "North American Vertical Datum of 1988")

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also "Substrate.")

Nekton are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of Formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

North American Vertical Datum of 1988 (NAVD 1988) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the U.S. This datum was established in 1991 by minimum-constraint adjustment of the Canadian, Mexican, and U.S. first-order terrestrial leveling networks.

Open or screened interval is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediments. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass. (See also "Ash mass," "Biomass," and "Dry mass")

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter Code is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method utilizes the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, Sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification, as used in this report, agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	0.00024- 0.004	Sedimentation
Silt	0.004 - 0.062	Sedimentation
Sand	0.062 - 2.0	Sedimentation/sieve
Gravel	2.0 -64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation to the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

Percent composition or **percent of total** is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, mass, or volume.

Percent shading is determined by using a clinometer to estimate left and right bank shading. The values are added together and divided by 180 to determine percent shading relative to a horizontal surface.

Periodic-record station is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measurements are made one or more times during a year, but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed "acidic," and solutions with a pH greater than 7 are termed "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

Phytoplankton is the plant part of the plankton. They are usually microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and are commonly known as algae. (See also "Plankton")

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL of sample).

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m^2/time)] for periphyton and macrophytes or per volume [mg C/(m^3/time)] for phytoplankton. Carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m^2/time)] for periphyton and macrophytes or per volume [mg O/(m^3/time)] for phytoplankton. Oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Radioisotopes are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Recoverable from bed (bottom) material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. (See also "Bed material")

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or non-exceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the non-exceedances of the $7Q_{10}$ occur less than 10 years after the previous non-exceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous non-exceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

Return period (See "Recurrence interval")

River mileage is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council, and typically used to denote location along a river.

Runoff is the quantity of water that is discharged ("runs off") from a drainage basin in a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also "Annual runoff")

Sea level, as used in this report, refers to one of the two commonly used national vertical datums, (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums. See conversion of units page (inside back cover) for identification of the datum used in this report.

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as "fluvial sediment." Sediment includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

Seven-day 10-year low flow ($7Q_{10}$) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-run average. The recurrence interval of the $7Q_{10}$ is 10 years; the chance that the annual 7-day minimum flow will be less than the $7Q_{10}$ is 10 percent in any given year. (See also "Recurrence interval" and "Annual 7-day minimum")

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Specific electrical conductance (conductivity) is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MILL/MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific waters, to evaluate mixing of different waters, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See "Gage height")

Stage-discharge relation is the relation between the water-surface elevation, termed stage (gage height), and the volume of water flowing in a channel per unit time.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Substrate Embeddedness Class is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2mm, sand or finer). Below are the class categories expressed as percent covered by fine sediment:

0	< no gravel or larger substrate		
1	> 75%		
2	51-75%	4	5-25%
3	26-50%	5	<5%

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

Surficial bed material is the upper surface (0.1 to 0.2 ft) of the bed material such as that material which is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is operationally defined as the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative suspended water-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of "suspended, recoverable" constituents are made either by directly analyzing the suspended material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also "Suspended")

Suspended sediment is the sediment maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid. (See also "Sediment")

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also "Sediment" and "Suspended sediment")

Suspended-sediment discharge (tons/day) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027. (See also "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also "Sediment")

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total." Determinations of "suspended, total" constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent. (See also "Suspended")

Suspended solids, total residue at 105 °C concentration is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxa richness is the total number of distinct species or groups and usually decreases with pollution. (See also "Percent Shading")

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata,* is the following:

Kingdom:	Animal
Phylum:	Arthropoda
Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	*Hexagenia*
Species:	*Hexagenia limbata*

Temperature preferences:

Cold - preferred water temperature for the species is less than 20 °C or spawning temperature preference less than 16 °C and native distribution is considered to be predominantly north of 45° N. latitude.

Warm - preferred water temperatures for the species is greater than 20 °C or spawning temperature preference greater than 16 °C and native distribution is considered to be predominantly south of 45° N. latitude.

Cool - intermediate between cold and warm water temperature preferences.

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder' is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement

of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined at least 95 percent of the constituent in the sample.)

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total organism count is the number of organisms collected and enumerated in any particular sample. (See also "Organism count/volume.")

Total recoverable is the amount of a given constituent in a whole-water sample after a sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Total sediment discharge is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also "Sediment," "Suspended sediment," "Suspended-Sediment Concentration," "Bedload," and "Bedload discharge")

Total sediment load or total load is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It differs from total sediment discharge in that load refers to the material whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also "Sediment," "Suspended-Sediment Load," and "Total load")

Trophic group:

Filter feeder - diet composed of suspended plant and/or animal material.

Herbivore - diet composed predominantly of plant material.

Invertivore - diet composed predominantly of invertebrates.

Omnivore - diet composed of at least 25-percent plant and 25-percent animal material.

Piscivore - diet composed predominantly of fish.

Turbidity is the reduction in the transparency of a solution due to the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of turbidity in the USGS include those that conform to EPA Method 180.1, ASTM D1889-

00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values. Consequently, the method of measurement and type of instrument used to derive turbidity records should be included in the "REMARKS" column of the Annual Data Report.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of pathlength of UV light through a sample.

Vertical datum (See "Datum")

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water table is the level in the saturated zone at which the pressure is equal to the atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which is found the water table.

Water year in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2001, is called the "2001 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

Wet mass is the mass of living matter plus contained water. (See also "Biomass" and "Dry mass")

Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also "Dry weight")

WSP is used as an acronym for "Water-Supply Paper" in reference to previously published reports.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers. (See also "Plankton")

PUBLICATIONS OF TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The U.S.G.S. publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, section A of book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S.G.S., Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be made in the form of a check or money order payable to the "U.S. Geological Survey." Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

1-D1. ***Water temperature-influential factors, field measurement, and data presentation***, by H. H. Stevens, Jr., J.F. Ficke, and G. F. Smoot: USGS-TWRI book 1, chap. D1. 1975. 65 p.

1-D2. ***Guidelines for collection and field analysis of ground-water samples for selected unstable constituents***, by W.W. Wood: USGS-TWRI book 1, chap. D2. 1976. 24 p.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

2-D1. ***Application of surface geophysics to ground-water investigations,*** by A.A. R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS-TWRI book 2, chap. D1. 1974. 116 p.

2-D2. ***Application of seismic-refraction techniques to hydrologic studies,*** by F.P. Haeni: USGS-TWRI book 2, chap. D2. 1988. 86 p.

Section E. Subsurface Geophysical Methods

2-E1. ***Application of borehole geophysics to water-resources investigations,*** by W.S. Keys and L.M. MacCary: USGS-TWRI book 2, chap. E1. 1971. 126 p.

2-E2. *Borehole geophysics applied to ground-water investigations,* by W.S. Keys: USGS-TWRI book 2, chap. E2. 1990. 150 p.

Section F. Drilling and Sampling Methods

2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells,* by Eugene Shuter and W.E. Teasdale: USGS-TWRI book 2, chap. F1. 1989. 97 p.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

3-A1. *General field and office procedures for indirect discharge measurements,* by M.A. Benson and Tate Dalrymple: USGS-TWRI book 3, chap. A1. 1967. 30 p.

3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M.A. Benson: USGS-TWRI book 3, chap. A2. 1967. 12 p.

3-A3. *Measurement of peak discharge at culverts by indirect methods,* by G.L. Bodhaine: USGS-TWRI book 3, chap. A3. 1968. 60 p.

3-A4. *Measurement of peak discharge at width contractions by indirect methods,* by H.F. Matthai: USGS-TWRI book 3, chap. A4. 1967. 44 p.

3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS-TWRI book 3. chap. A5. 1967. 29 p.

3-A6. *General procedure for gaging streams,* by R.W. Carter and Jacob Davidian: USGS-TWRI book 3, chap. A6. 1968. 13 p.

3-A7. *Stage measurement at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS-TWRI book 3, chap. A7. 1968. 28 p.

3-A8. *Discharge measurements at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS-TWRI book 3, chap. A8. 1969. 65 p.

3-A9. *Measurement of time of travel in streams by dye tracing,* by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS-TWRI book 3, chap. A9. 1989. 27 p.

3-A10. *Discharge ratings at gaging stations,* by E.J. Kennedy: USGS-TWRI book 3, chap. A10. 1984. 59 p.

3-A11. *Measurement of discharge by the moving-boat method,* by G.F. Smoot and C.E. Novak: USGS-TWRI book 3, chap. A11. 1969. 22 p.

3-A12. *Fluorometric procedures for dye tracing,* Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS-TWRI book 3, chap. A12. 1986. 34 p.

3-A13. *Computation of continuous records of streamflow,* by E.J. Kennedy: USGS-TWRI book 3, chap. A13. 1983. 53 p.

3-A14. *Use of flumes in measuring discharge,* by F.A. Kilpatrick and V.R. Schneider: USGS-TWRI book 3, chap. A14. 1983. 46 p.

3-A15. *Computation of water-surface profiles in open channels,* by Jacob Davidian: USGS-TWRI book 3, chap. A15. 1984. 48 p.

3-A16. *Measurement of discharge using tracers,* by F.A. Kilpatrick and E.D. Cobb: USGS-TWRI book 3, chap. A16. 1985. 52 p.

3-A17. *Acoustic velocity meter systems,* by Antonius Laenen: USGS-TWRI book 3, chap. A17. 1985. 38 p.

3-A18. *Determination of stream reaeration coefficients by use of tracers,* by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS-TWRI book 3, chap. A18. 1989. 52 p.

3-A19. *Levels at streamflow gaging stations,* by E.J. Kennedy: USGS-TWRI book 3, chap. A19. 1990. 31 p.

3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers,* by F.A. Kilpatrick: USGS-TWRI book 3, chap. A20. 1993. 38 p.

3-A21 *Stream-gaging cableways,* by C. Russell Wagner: USGS-TWRI book 3, chap. A21. 1995.
56 p.

Section B. Ground-Water Techniques

3-B1. *Aquifer-test design, observation, and data analysis,* by R.W. Stallman: USGS-TWRI book 3, chap. B1. 1971. 26 p.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction,* by G.D. Bennett: USGS-TWRI book 3, chap. B2. 1976. 172 p.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers,* by J.E. Reed: USGS-TWRI book 3, chap. B3. 1980. 106 p.

3-B4. *Regression modeling of ground-water flow,* by R.L. Cooley and R.L. Naff: USGS-TWRI book 3, chap. B4. 1990. 232 p.

3-B4. *Supplement 1. Regression modeling of ground-water flow --Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems,* by R.L. Cooley: USGS-TWRI book 3, chap. B4. 1993. 8 p.

3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems–An introduction,* by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS-TWRI book 3, chap. B5. 1987. 15 p.

3-B6. *The principle of superposition and its application in ground-water hydraulics,* by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS-TWRI book 3, chap. B6. 1987. 28 p.

3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow,* by E.J. Wexler: USGS-TWRI book 3, chap. B7. 1992. 190 p.

3-B8. *System and boundary conceptualization in ground-water flow simulation,* by T.E. Reilly: USGS-TWRI book 3, chap. B8. 2001. 29 p.

Section C. Sedimentation and Erosion Techniques

3-C1. *Fluvial sediment concepts,* by H.P. Guy: USGS-TWRI book 3, chap. C1. 1970. 55 p.

3-C2. *Field methods for measurement of fluvial sediment,* by T.K. Edwards and G.D. Glysson: USGS-TWRI book 3, chap. C2. 1999. 89 p.

3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS-TWRI book 3, chap. C3. 1972. 66 p.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

4-A1. *Some statistical tools in hydrology,* by H.C. Riggs: USGS-TWRI book 4, chap. A1. 1968. 39 p.

4-A2. *Frequency curves,* by H.C. Riggs: USGS-TWRI book 4, chap. A2. 1968. 15 p.

Section B. Surface Water

4-B1. *Low-flow investigations,* by H.C. Riggs: USGS-TWRI book 4, chap. B1. 1972. 18 p.

4-B2. *Storage analyses for water supply,* by H.C. Riggs and C.H. Hardison: USGS-TWRI book 4, chap. B2. 1973. 20 p.

4-B3. *Regional analyses of streamflow characteristics,* by H.C. Riggs: USGS-TWRI book 4, chap. B3. 1973. 15 p.

Section D. Interrelated Phases of the Hydrologic Cycle

4-D1. *Computation of rate and volume of stream depletion by wells,* by C.T. Jenkins: USGS-TWRI book 4, chap. D1. 1970. 17 p.

Book 5. Laboratory Analysis

Section A. Water Analysis

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments,* by M.J. Fishman and L.C. Friedman, editors: USGS-TWRI book 5, chap. A1. 1989. 545 p.

5-A2. *Determination of minor elements in water by emission spectroscopy,* by P.R. Barnett and E.C. Mallory, Jr.: USGS-TWRI book 5, chap. A2. 1971. 31 p.

5-A3. *Methods for the determination of organic substances in water and fluvial sediments,* edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS-TWRI book 5, chap. A3. 1987. 80 p.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples,* by L.J. Britton and P.E. Greeson, editors: USGS-TWRI book 5, chap. A4. 1989. 363 p.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments,* by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS-TWRI book 5, chap. A5. 1977. 95 p.

5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments,* by L.C. Friedman and D.E. Erdmann: USGS-TWRI book 5, chap. A6. 1982. 181 p.

Section C. Sediment Analysis

5-C1. *Laboratory theory and methods for sediment analysis,* by H.P. Guy: USGS-TWRI book 5, chap. C1. 1969. 58 p.

Book 6. Modeling Techniques

Section A. Ground Water

6-A1. *A modular three-dimensional finite-difference ground-water flow model,* by M.G. McDonald and A.W. Harbaugh: USGS-TWRI book 6, chap. A1. 1988. 586 p.

6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model,* by S.A. Leake and D.E. Prudic: USGS-TWRI book 6, chap. A2. 1991. 68 p.

6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual,* by L.J. Torak: USGS-TWRI book 6, chap. A3. 1993. 136 p.

6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions,* by R.L. Cooley: USGS-TWRI book 6, chap. A4. 1992. 108 p.

6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details,* by L.J. Torak: USGS-TWRI book 6, chap. A5, 1993. 243 p.

6-A6. A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction, by Eric D. Swain and Eliezer J. Wexler: USGS-TWRI book 6, chap. A5,1996. 125 p.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments,* by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS-TWRI book 7, chap. C1. 1976. 116 p.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water,* by L.F. Konikow and J.D. Bredehoeft: USGS-TWRI book 7, chap. C2. 1978. 90 p.

7-C3. *A model for simulation of flow in singular and interconnected channels,* by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS-TWRI book 7, chap. C3. 1981. 110 p.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

8-A1. *Methods of measuring water levels in deep wells,* by M.S. Garber and F.C. Koopman: USGS-TWRI book 8, chap. A1. 1968. 23 p.

8-A2. *Installation and service manual for U.S. Geological Survey manometers,* by J.D. Craig: USGS-TWRI book 8, chap. A2. 1983. 57 p.

Section B. Instruments for Measurement of Discharge

8-B2. *Calibration and maintenance of vertical-axis type current meters,* by G.F. Smoot and C.E. Novak: USGS-TWRI book 8, chap. B2. 1968. 15 p.

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling,* by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A1. 1998. 47 p.

9-A2. *National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling,* edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A2. 1998. 94 p.

9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling,* edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A3. 1998. 75 p.

9-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples,* edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A4. 1999. 156 p.

9-A5. *National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples,* edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A5. 1999, 149 p.

9-A6. *National Field Manual for the Collection of Water-Quality Data: Field Measurements,* edited by F.D. Wilde and D.B. Radtke: USGS-TWRI book 9, chap. A6. 1998. Variously paginated.

9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators,* edited by D.N. Myers and F.D. Wilde: USGS-TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.

9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples,* by D.B. Radtke: USGS-TWRI book 9, chap. A8. 1998. 48 p.

9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities,* by S.L. Lane and R.G. Fay: USGS-TWRI book 9, chap. A9. 1998. 60 p.

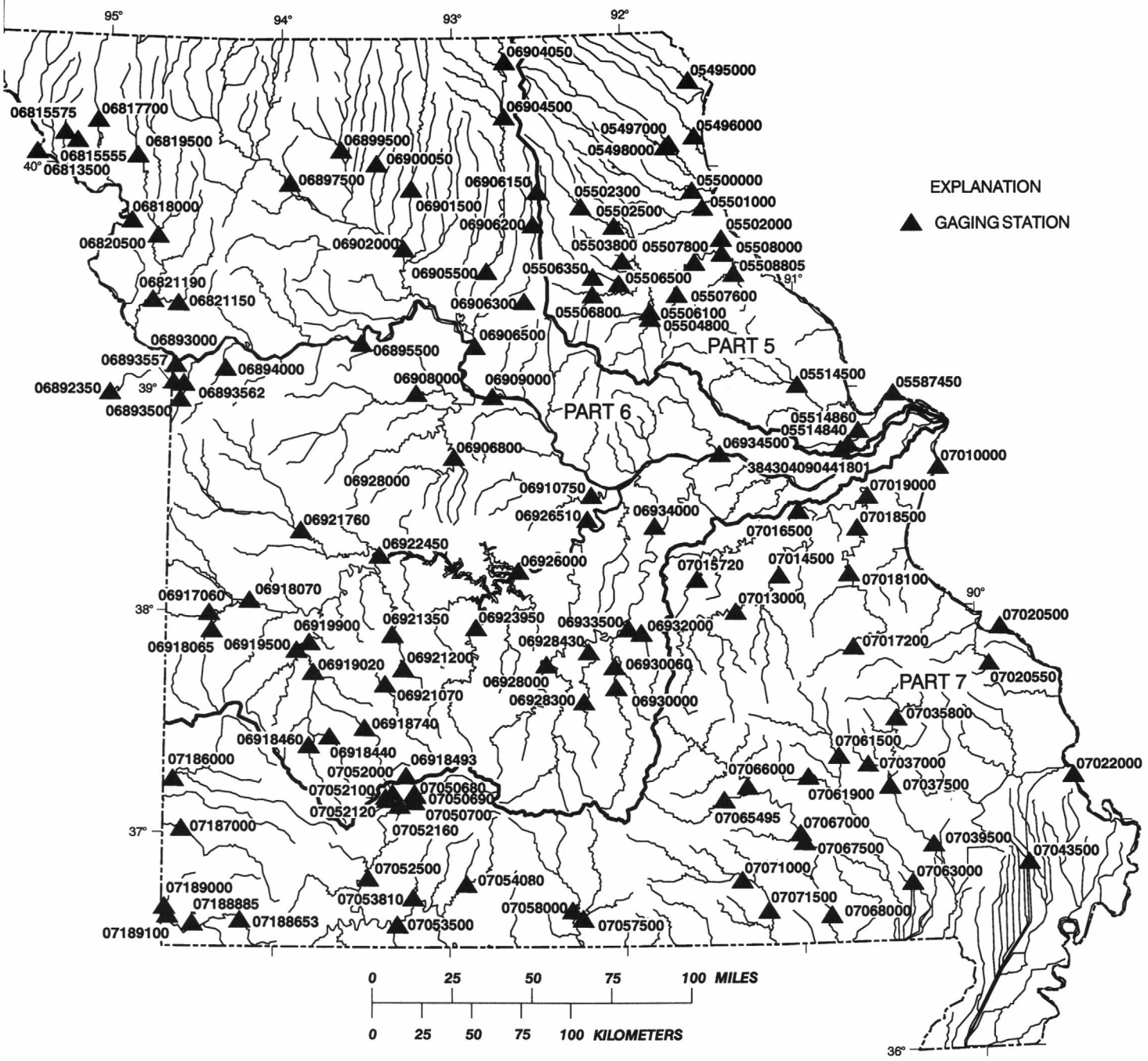


Figure 5. Location of surface-water stations.

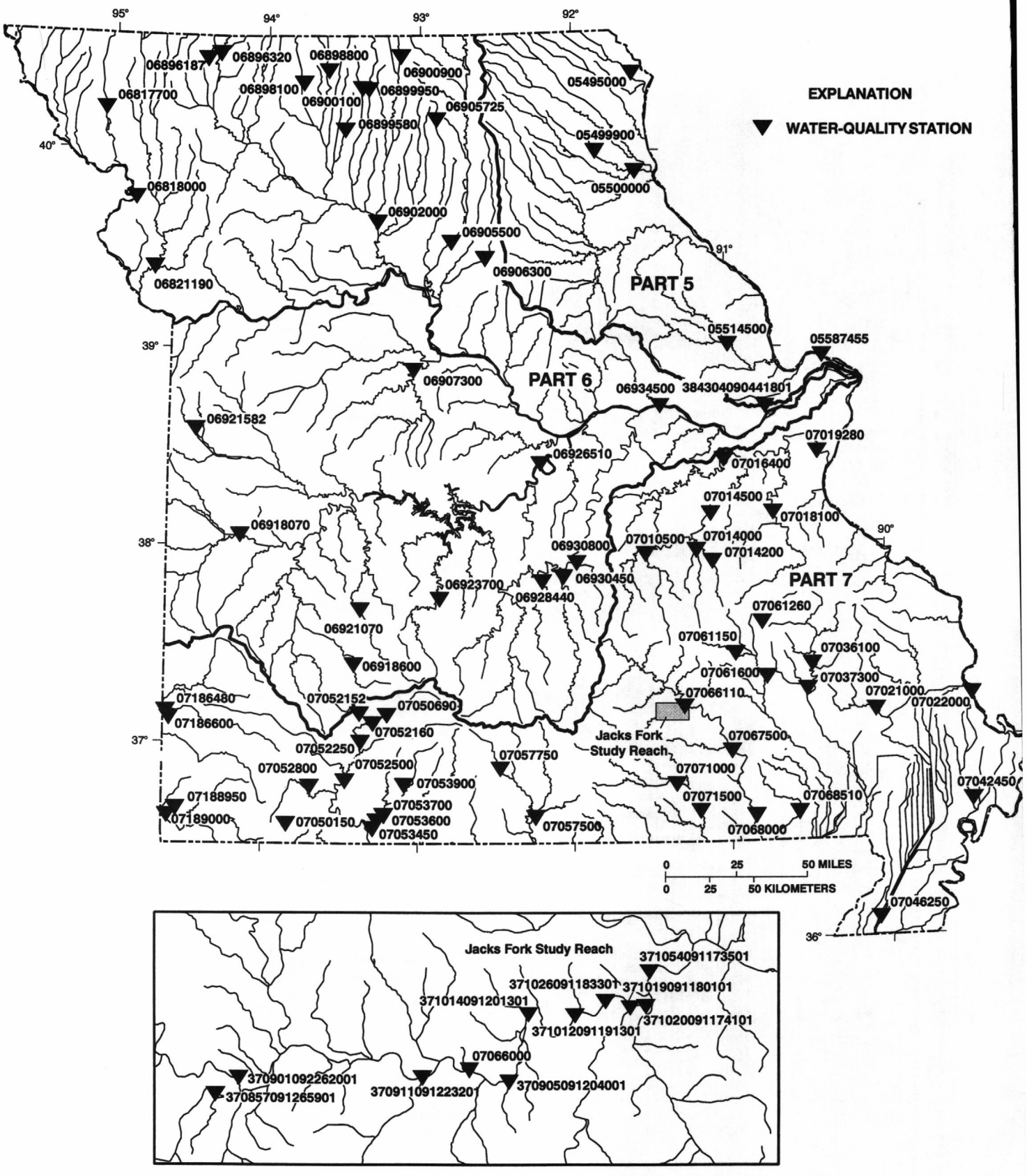


Figure 6. Location of surface-water-quality stations.

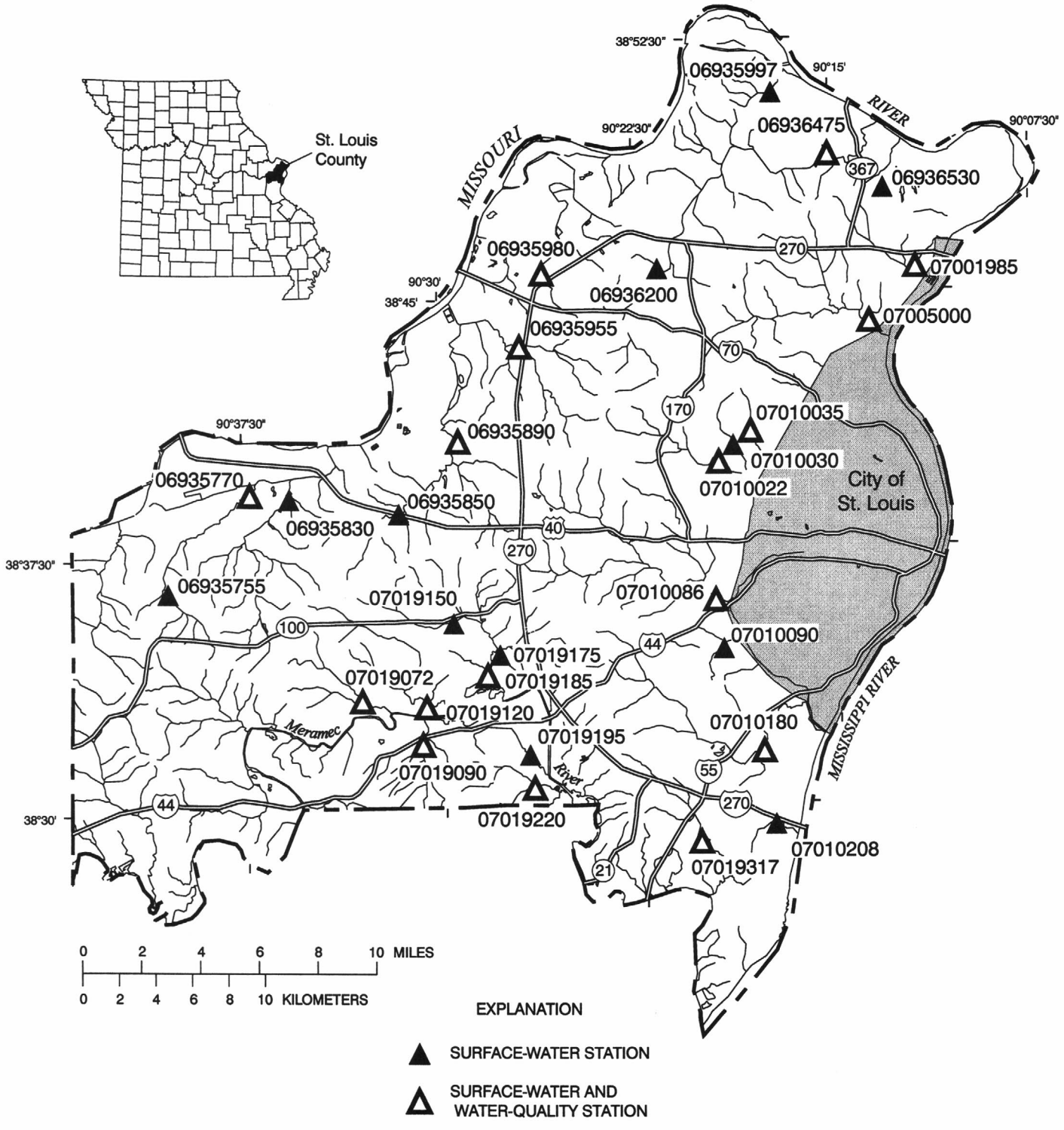


Figure 7. Location of Metropolitan St. Louis Sewer District stations.

05490600 DES MOINES RIVER AT ST. FRANCISVILLE, MO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°27'45", long 91°34'00", Clark County, in SW $^1/_4$ NW $^1/_4$ sec.4, T.65 N., R.6 W., Hydrologic Unit 07100009, at bridge on County Highway B at St. Francisville and 8.0 mi upstream from Sugar Creek.

DRAINAGE AREA.--14,300 mi^2.

PERIOD OF RECORD.--August 1967 to September 1992, October 1997 to September 2001.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1973 to September 1974, October 1975 to September 1981.
WATER TEMPERATURE: October 1973 to September 1974, October 1975 to September 1981.
SEDIMENT RECORDS: April 1978 to September 1982, April 1983 to September 1992.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE (water years 1976-80): Maximum daily, 1,080 microsiemens, Jan. 25, 1977; minimum daily, 214 microsiemens, Sept. 2, 1980.
WATER TEMPERTURE (water years 1976-80): Maximum daily 35.0 °C, July 6, 1977; minimum, 0.0 °C on many days during winter periods.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 8,010 mg/L, Apr. 13, 1981; minimum daily mean, 2 mg/L, Feb. 13, 1990 and Oct. 7, 8, 1991.
SUSPENDED-SEDIMENT LOADS: Maximum daily, 765,000 tons, Mar. 20, 1982; minimum daily, 7.3 tons, Oct. 7, 1991.

DATE	TIME	GAGE HEIGHT (FT)	WATER TEMPER-ATURE (^{0}C)	SEDI-MENT SUS-PENDED (mg/L)
Oct. 6	0845	5.81	8.0	92
Mar. 7	1630	8.84	3.0	166
Apr. 12	1615	16.68	10.0	457
May 31	1153	17.64	13.0	314
June 21	1210	17.41	17.0	656

05495000 FOX RIVER AT WAYLAND, MO

LOCATION.--Lat 40°23'33", long 91°35'50", in NW $^1/_4$ sec.31, T.65 N., R.6 W., Clark County, Hydrologic Unit 07110001, on left bank 30 ft downstream from bridge on U.S. Highway 136, 0.8 mi west of Wayland, 5.0 mi downstream from Brush Creek, and at mile 15.2.

DRAINAGE AREA.--400 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1922 to current year.

REVISED RECORDS.--WSP 785: 1934. Revised daily mean discharges for the period Aug. 9, 1977, to Sept. 30, 1977, and the annual maximum peak for the 1977 water year published in WDR-MO-79-1: 1978.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 501.52 ft above sea level. Prior to Oct. 1, 1929, nonrecording gage at bridge 2.8 mi upstream at different datum; Oct. 1, 1929, to June 11, 1936, nonrecording gage at bridge 90 ft upstream; June 1936 to August 1988 upstream 300 ft at present datum.

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	15	18	e7.7	1730	402	132	54	5090	53	19	26
2	6.6	9.8	18	e7.6	916	332	124	54	4090	45	17	47
3	3.7	7.7	18	e7.5	e643	393	117	53	1480	42	172	28
4	7.1	6.4	17	e7.5	e549	480	99	547	2190	41	2690	21
5	15	7.3	16	e7.3	e495	439	104	392	4190	38	599	17
6	27	11	15	e7.5	e460	266	296	735	5000	34	197	15
7	13	17	15	e7.6	e467	201	177	405	2870	32	87	16
8	15	20	14	e8.0	1380	169	119	380	999	30	53	13
9	11	41	14	e8.0	6450	145	112	283	561	28	41	48
10	12	66	13	e8.3	5410	125	132	156	369	26	34	36
11	12	29	e12	e9.2	3480	118	463	148	252	28	29	19
12	11	20	e12	e12	1370	134	553	987	189	27	26	15
13	9.7	16	e12	16	791	352	347	452	144	24	23	12
14	9.8	15	e11	25	e582	439	246	5870	140	23	21	11
15	10	14	e11	102	e441	1400	260	6590	2280	21	20	10
16	8.3	13	e10	184	e338	6990	534	1150	2380	18	21	9.9
17	7.3	13	e10	349	e215	5820	404	1250	683	18	19	10
18	7.2	13	e9.6	328	e159	1890	200	2530	393	18	18	18
19	7.5	14	e9.2	206	e140	1350	141	1040	338	20	18	96
20	7.0	12	e9.1	137	e130	1110	118	521	194	123	18	88
21	6.6	11	e8.9	96	206	1080	113	491	2050	130	15	782
22	6.7	11	e8.9	69	310	915	184	555	2760	50	35	1350
23	7.4	11	e8.8	54	157	593	193	285	865	32	1240	342
24	8.2	11	e8.7	41	1650	432	150	203	393	25	126	136
25	6.2	11	e8.5	28	4650	303	187	166	228	22	52	83
26	7.3	12	e8.4	23	3660	226	121	168	152	52	41	55
27	11	12	e8.3	20	1800	177	90	183	110	128	30	41
28	18	12	e8.2	19	671	155	76	166	85	52	46	34
29	12	13	e7.9	272	---	147	66	147	70	34	31	28
30	11	16	e7.9	2810	---	143	59	231	61	26	25	27
31	11	---	e7.8	2410	---	137	---	4210	---	22	23	---
MEAN	10.2	16.0	11.5	235	1402	867	197	981	1354	40.7	187	114
MAX	27	66	18	2810	6450	6990	553	6590	5090	130	2690	1350
MIN	3.7	6.4	7.8	7.3	130	118	59	53	61	18	15	9.9
IN.	.03	.04	.03	.68	3.65	2.50	.55	2.83	3.78	.12	.54	.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2001, BY WATER YEAR (WY)

MEAN	164	174	138	165	339	441	469	385	396	244	116	173
MAX	1313	1375	1330	1133	1433	2264	2750	2795	2223	3387	1509	1999
(WY)	1987	1929	1983	1969	1982	1979	1973	1996	1947	1993	1970	1970
MIN	.000	.007	.019	.19	.42	8.56	2.35	1.39	.060	.21	.019	.17
(WY)	1957	1957	1957	1957	1957	1956	1956	1956	1956	1936	1936	1937

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1922 - 2001	
ANNUAL MEAN	49.0		444		267	
HIGHEST ANNUAL MEAN					927	1993
LOWEST ANNUAL MEAN					17.6	1956
HIGHEST DAILY MEAN	1580	Jul 11	6990	Mar 16	19900	Apr 22 1973
LOWEST DAILY MEAN	1.0	Sep 19	3.7	Oct 3	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	1.3	Sep 13	7.1	Oct 20	.00	Several Years
MAXIMUM PEAK FLOW	---		9800	May 15	26400	Apr 22 1973
MAXIMUM PEAK STAGE	---		17.78	May 15	21.71	Apr 22 1973
INSTANTANEOUS LOW FLOW	---		1.9	Oct 3	.00	Several Years
ANNUAL RUNOFF (INCHES)	1.67		15.06		9.06	
10 PERCENT EXCEEDS	60		1190		551	
50 PERCENT EXCEEDS	11		53		38	
90 PERCENT EXCEEDS	6.3		8.9		2.3	

e Estimated

05495000 FOX RIVER AT WAYLAND, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1967 to September 1972, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
27...	1400	ENVIRONMENTAL	12	14.9	112	7.9	530	3.5	240	68.3	16.8	7.29
JAN												
09...	0810	ENVIRONMENTAL	e8	13.9	94	7.8	439	.5	--	--	--	--
MAR												
27...	0800	ENVIRONMENTAL	182	13.6	99	7.4	402	2.7	--	--	--	--
27...	0801	REPLICATE	--	--	--	--	--	--	--	--	--	--
MAY												
16...	0930	ENVIRONMENTAL	1180	7.5	84	7.5	247	20.4	110	31.5	6.95	4.54
JUL												
24...	1520	ENVIRONMENTAL	24	6.7	95	7.8	310	32.1	--	--	--	--
SEP												
04...	1510	ENVIRONMENTAL	20	8.7	117	8.2	404	28.4	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
27...	20.6	192	194	237	0	22.2	.2	68.7	<10	339	<.041	.62	.374
JAN													
09...	--	220	220	268	0	--	--	--	--	--	<.041	.59	.481
MAR													
27...	--	109	109	133	0	--	--	--	--	--	.076	.93	1.41
27...	--	--	--	--	--	--	--	--	--	--	.049	.91	1.28
MAY													
16...	5.9	75	75	92	0	7.4	.2	24.1	638	190	E.030	2.3	1.74
JUL													
24...	--	106	108	132	0	--	--	--	--	--	<.040	.93	.967
SEP													
04...	--	148	149	182	0	--	--	--	--	--	<.040	.70	<.050

05495000 FOX RIVER AT WAYLAND, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
27...	.010	<.060	<.018	E.050	22	K4	K12	40	26	91	.7	<8.00	<.11
JAN													
09...	.009	<.060	E.009	E.053	--	K2	K2	K13	--	--	--	--	--
MAR													
27...	.018	.072	.051	.225	--	K40	K28	220	--	--	--	--	--
27...	.017	E.060	.047	.228	--	--	--	--	--	--	--	--	--
MAY													
16...	.079	.122	.073	.722	43	2000	2800	3100	599	7680	1.4	<8.00	.21
JUL													
24...	.054	E.049	.037	.182	--	630	K660	150	--	--	--	--	--
SEP													
04...	<.006	E.033	.019	.089	--	120	230	100	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV							
27...	<4.7	100	E.05	<1	218	<.14	2
JAN							
09...	--	--	--	--	--	--	--
MAR							
27...	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--
MAY							
16...	E2.7	760	1.16	12	25.9	.03	38
JUL							
24...	--	--	--	--	--	--	--
SEP							
04...	--	--	--	--	--	--	--

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

05496000 WYACONDA RIVER ABOVE CANTON, MO

LOCATION.--Lat 40°08'32", long 91°33'55", in SW $^1/_4$ SW $^1/_4$ NE $^1/_4$ sec.28, T.62 N., R.6 W., Lewis County, Hydrologic Unit 07110001, on left bank on downstream side of bridge on State Highway 16, 1.9 mi upstream from Sugar Creek, 2.5 mi west of Canton, and at mile 16.7.

DRAINAGE AREA.--393 mi^2.

PERIOD OF RECORD.--October 1932 to September 1972, October 1979 to current year.

REVISED RECORDS.--WDR MO-92-1: (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 517.41 ft above sea level. Prior to May 1, 1939, nonrecording gage 500 ft downstream at datum 2.00 ft lower; Sept. 25, 1975, to Sept. 17, 1979, nonrecording gage at present site and at datum 2.00 ft lower.

REMARKS.--Records fair except for estimated daily discharges and those below 10 ft^3/s, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	4.1	7.4	e3.1	1730	320	98	75	4750	54	14	38
2	5.9	5.2	7.7	e3.1	1070	269	95	64	5060	47	11	32
3	4.3	6.0	7.3	e3.1	788	326	86	62	2050	35	11	29
4	3.9	5.0	7.9	e3.2	607	380	77	542	1960	29	1520	22
5	19	5.1	7.0	e3.1	481	309	71	611	3080	26	577	16
6	74	7.5	5.8	e3.1	380	206	318	863	4790	24	151	14
7	53	9.5	6.6	e3.1	374	158	319	913	5390	22	67	13
8	24	15	7.5	e3.1	633	136	163	446	2530	21	45	13
9	15	31	6.1	e3.2	4150	116	110	227	674	23	34	22
10	11	41	e5.3	e3.9	5920	101	151	154	332	21	27	46
11	8.8	61	e5.1	e4.5	7060	94	520	139	214	21	21	23
12	7.1	29	e5.3	e7.2	2210	96	973	210	145	21	20	14
13	6.6	19	e5.0	e13	726	124	344	265	98	18	19	11
14	5.6	14	e4.7	53	654	230	198	2460	76	17	17	9.6
15	7.4	12	e4.5	294	1050	725	164	6000	1030	17	14	8.0
16	7.0	10	e4.4	542	542	4280	377	7390	1710	16	15	7.4
17	7.1	9.1	e4.2	388	348	6300	272	2130	496	14	15	7.0
18	6.2	8.2	e4.1	355	281	3650	178	1620	235	16	17	8.2
19	5.5	7.6	e4.0	190	275	1280	163	1060	196	23	16	27
20	4.0	7.2	e4.0	182	175	857	128	412	123	20	15	265
21	4.5	6.5	e3.9	126	135	700	129	382	1030	16	13	689
22	5.0	5.8	e3.6	85	116	501	290	507	2580	14	13	829
23	4.8	7.0	e3.5	67	111	333	311	239	900	13	1460	290
24	6.2	6.9	e3.6	58	1260	253	197	145	343	11	818	161
25	5.6	7.2	e3.4	51	4280	194	168	110	188	17	169	106
26	4.8	7.5	e3.5	47	5150	149	125	100	133	12	104	73
27	4.7	7.0	e3.4	43	1710	123	104	99	108	48	71	56
28	4.6	7.2	e3.4	43	591	109	92	86	86	34	53	47
29	4.3	7.4	e3.5	1110	---	103	81	71	77	23	43	37
30	3.8	7.2	e3.4	2740	---	103	75	219	64	19	41	36
31	3.7	---	e3.2	2580	---	99	---	3430	---	16	51	---
MEAN	10.8	12.5	4.91	291	1529	730	213	1001	1348	22.8	176	98.3
MAX	74	61	7.9	2740	7060	6300	973	7390	5390	54	1520	829
MIN	3.7	4.1	3.2	3.1	111	94	71	62	64	11	11	7.0
IN.	.03	.04	.01	.85	4.05	2.14	.60	2.94	3.83	.07	.52	.28

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	138	166	153	163	365	414	435	449	375	284	129	158
MAX	1677	1463	1399	946	1529	1346	1809	3196	2594	2792	2242	2510
(WY)	1987	1986	1983	1946	2001	1985	1983	1996	1947	1993	1970	1986
MIN	.000	.000	.47	.10	2.05	7.53	3.38	1.69	.66	.016	.000	.017
(WY)	1954	1954	1954	1954	1989	1957	1956	1934	1956	1934	1934	1953

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	63.7		445		268	
HIGHEST ANNUAL MEAN					861	1993
LOWEST ANNUAL MEAN					14.2	1989
HIGHEST DAILY MEAN	3380	Jul 12	7390	May 16	16500	Sep 22 1986
LOWEST DAILY MEAN	2.4	Jan 15	3.1	Jan 1-3,5-8	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	3.2	Jan 22	3.1	Jan 1	.00	Many Years
MAXIMUM PEAK FLOW	---		8440	May 16	17700	Jun 30 1933
MAXIMUM PEAK STAGE	---		23.70	May 16	31.33	Sep 22 1986
INSTANTANEOUS LOW FLOW	---		3.2[a]	Oct 31	.00	Many Years
ANNUAL RUNOFF (INCHES)	2.21		15.36		9.27	
10 PERCENT EXCEEDS	74		1050		559	
50 PERCENT EXCEEDS	8.3		54		31	
90 PERCENT EXCEEDS	3.5		4.6		2.2	

e Estimated
[a] Minimum recorded.

05497000 NORTH FABIUS RIVER AT MONTICELLO, MO

LOCATION.--Lat 40°06'30", long 91°42'51", in SW $^1/_4$ SE $^1/_4$ sec.6, T.61 N., R.7 W., Lewis County, Hydrologic Unit 07110002, on right bank upstream from bridge on State Highway 16, 1.0 mi south of Monticello, and 19.0 mi upstream from Middle Fabius River.

DRAINAGE AREA.--452 mi^2.

PERIOD OF RECORD.--February 1922 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 925: 1937-39(M). WSP 1308: 1922(M), 1924-26(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 540.73 ft above sea level. Prior to Nov. 22, 1930, nonrecording gage at site 400 ft downstream at datum 0.03 ft lower; Nov. 22, 1930, to Nov. 28, 1967, nonrecording gage at present site and datum.

REMARKS.--Records poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	3.8	12	e5.5	449	345	169	72	5300	77	27	51
2	4.5	4.4	11	e5.5	295	303	159	69	2600	69	24	32
3	4.0	2.9	14	e5.6	311	450	148	67	1200	65	31	29
4	5.0	3.3	13	e5.7	393	529	134	541	2200	59	766	16
5	40	3.5	e15	e5.6	300	418	128	340	4490	53	205	17
6	182	4.9	e14	e5.8	198	246	318	412	6470	51	90	18
7	85	14	e14	e5.4	154	180	242	546	5470	47	57	17
8	38	23	e12	e5.6	389	151	168	345	1420	43	47	13
9	23	41	e11	e5.4	6440	126	136	254	710	39	38	35
10	18	118	e11	e6.0	7290	114	142	166	435	35	32	28
11	13	80	e9.9	e7.5	1890	105	667	132	311	33	30	16
12	9.6	42	e9.5	e9.8	794	105	801	113	240	32	22	11
13	8.2	31	e9.2	e12	543	143	399	257	192	30	23	12
14	7.5	22	e9.0	e28	645	278	242	6830	158	28	25	11
15	6.5	17	e8.2	174	1100	1130	210	9970	3070	26	23	10
16	6.0	15	e7.8	478	532	7280	418	2390	1910	24	25	10
17	6.9	13	e7.7	292	267	3980	352	843	576	23	23	10
18	5.4	12	e7.4	203	387	1840	201	906	325	26	21	14
19	5.8	15	e7.2	183	347	1210	143	759	241	32	17	84
20	7.0	16	e7.0	114	186	1070	125	430	183	28	15	257
21	3.9	12	e6.9	92	188	976	140	495	2130	26	16	2200
22	9.2	15	e6.8	78	153	754	349	433	2810	23	15	930
23	5.3	17	e6.7	68	139	512	286	286	796	24	565	284
24	4.2	17	e6.6	69	1510	402	215	221	395	23	537	149
25	3.7	18	e6.6	64	6870	315	247	195	259	39	147	99
26	5.0	15	e6.5	57	2740	258	158	183	191	209	68	65
27	3.8	12	e6.5	63	908	222	129	172	149	140	50	48
28	4.7	12	e6.3	64	539	200	109	162	127	69	43	40
29	5.3	11	e6.0	875	---	191	93	151	107	51	37	31
30	5.7	11	e5.8	2360	---	184	80	226	89	40	30	29
31	4.0	---	e5.5	1280	---	175	---	4000	---	32	39	---
MEAN	17.3	20.7	9.04	214	1284	780	237	1031	1485	48.3	99.6	152
MAX	182	118	15	2360	7290	7280	801	9970	6470	209	766	2200
MIN	3.7	2.9	5.5	5.4	139	105	80	67	89	23	15	10
IN.	.04	.05	.02	.55	2.96	1.99	.58	2.63	3.67	.12	.25	.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2001, BY WATER YEAR (WY)

MEAN	182	195	171	195	362	460	525	455	424	298	130	181
MAX	1496	1347	1521	1679	1346	2336	3171	2941	3148	3320	2149	1966
(WY)	1987	1929	1983	1974	1937	1979	1973	1996	1947	1993	1970	1970
MIN	.013	1.06	.73	.14	2.42	7.91	7.15	1.71	.070	.000	.000	.51
(WY)	1957	1957	1957	1940	1989	1956	1956	1934	1934	1934	1934	1953

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1922 - 2001	
ANNUAL MEAN	46.0		441		298	
HIGHEST ANNUAL MEAN					923	1993
LOWEST ANNUAL MEAN					18.0	1989
HIGHEST DAILY MEAN	1970	Jun 26	9970	May 15	17900	Apr 23 1973
LOWEST DAILY MEAN	1.3	Sep 19	2.9	Nov 3	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	2.3	Sep 14	3.8	Oct 31	.00	Many Years
MAXIMUM PEAK FLOW	---		11700	May 15	20700	Apr 22 1973
MAXIMUM PEAK STAGE	---		26.14	May 15	33.03	Apr 22 1973
INSTANTANEOUS LOW FLOW	---		2.9	Nov 3	.00	Many Years
ANNUAL RUNOFF (INCHES)	1.39		13.25		8.95	
10 PERCENT EXCEEDS	59		887		575	
50 PERCENT EXCEEDS	13		69		46	
90 PERCENT EXCEEDS	5.0		6.2		4.2	

e Estimated

05498000 MIDDLE FABIUS RIVER NEAR MONTICELLO, MO

LOCATION.--Lat 40°05'37", long 91°44'08", in SE $^{1}/_{4}$ sec.12, T.61 N., R.8 W., Lewis County, Hydrologic Unit 07110002, on left bank on downstream end of bridge pier on State Highway 16, 2.5 mi southwest of Monticello, 8.0 mi downstream from Radish Branch, and 17 mi upstream from mouth.

DRAINAGE AREA.--393 mi^2.

PERIOD OF RECORD.--July 1945 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 540.46 ft above sea level. Prior to Oct. 4, 1967, nonrecording gage at present site and datum.

REMARKS.--Records fair except for period Oct. 12 to Jan. 14 and discharges below 5 ft^3/s, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 17, 1945, reached a stage of 23.3 ft, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.3	7.2	4.2	530	223	91	42	3030	36	13	69
2	1.6	2.4	7.6	4.9	199	203	85	38	1760	32	10	60
3	.90	2.6	7.2	4.9	203	289	83	36	1200	28	21	26
4	.92	3.3	7.2	4.7	221	393	76	647	2200	27	62	16
5	3.6	2.3	6.5	4.4	131	293	78	346	3060	24	166	11
6	39	3.7	6.5	4.0	87	181	555	397	5670	22	58	9.1
7	98	5.5	6.8	3.7	79	130	553	470	5850	26	30	7.5
8	50	10	6.7	3.6	489	108	239	224	3160	23	19	6.8
9	26	32	6.5	3.5	4140	96	148	137	609	19	15	23
10	16	67	6.7	3.6	4760	85	114	91	323	17	13	20
11	11	100	5.8	3.2	4840	79	247	69	212	15	9.8	11
12	7.3	66	7.7	3.3	2020	80	859	55	153	15	8.7	7.9
13	5.3	36	7.4	3.7	484	97	403	47	116	14	7.3	6.1
14	4.0	23	7.0	24	462	144	199	5270	97	12	6.7	5.0
15	4.7	17	6.1	298	753	705	151	6950	471	12	6.3	4.4
16	3.5	13	5.6	581	502	4410	268	2880	2800	11	6.8	4.0
17	3.7	11	5.9	307	222	5050	280	422	762	10	6.5	3.7
18	3.7	9.2	5.6	151	141	3240	148	1310	242	11	6.2	6.2
19	3.2	8.9	5.1	98	196	964	107	328	154	13	5.8	25
20	3.1	7.9	5.0	62	149	805	89	164	114	13	5.4	99
21	2.7	7.7	5.5	50	121	645	124	374	120	12	5.6	744
22	3.4	7.2	6.4	37	90	404	297	219	2060	11	5.9	1260
23	3.3	7.3	5.5	28	80	296	212	128	1150	11	204	228
24	2.9	7.2	5.3	23	1470	240	143	85	266	9.7	165	99
25	2.7	7.4	5.5	20	4350	187	122	68	155	16	54	57
26	2.9	7.7	5.1	17	4430	145	97	61	105	42	26	37
27	3.6	7.4	4.7	16	1740	118	73	55	78	41	16	26
28	2.6	7.3	5.2	16	369	102	61	49	62	30	12	20
29	2.2	7.6	5.1	1480	---	98	54	45	50	21	10	17
30	1.8	7.4	4.5	3180	---	95	47	189	42	16	9.8	14
31	2.0	---	4.0	2180	---	95	---	2370	---	14	11	---
MEAN	10.2	16.6	6.03	278	1188	645	200	760	1202	19.5	32.1	97.4
MAX	98	100	7.7	3180	4840	5050	859	6950	5850	42	204	1260
MIN	.90	2.3	4.0	3.2	79	79	47	36	42	9.7	5.4	3.7
IN.	.03	.05	.02	.82	3.15	1.89	.57	2.23	3.41	.06	.09	.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2001, BY WATER YEAR (WY)

MEAN	161	177	159	204	340	456	499	465	317	305	116	152
MAX	1368	1481	1418	1179	1359	1521	2719	2776	2582	3038	1758	1815
(WY)	1987	1986	1983	1969	1969	1979	1973	1996	1947	1993	1970	1970
MIN	.000	.000	.11	.31	1.23	6.32	3.83	1.48	1.04	.78	.56	.087
(WY)	1954	1954	1957	1957	1957	1957	1956	1989	1956	1988	1988	1953

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1946 - 2001	
ANNUAL MEAN	33.3		364		279	
HIGHEST ANNUAL MEAN					837	1993
LOWEST ANNUAL MEAN					18.7	1989
HIGHEST DAILY MEAN	1940	Jun 26	6950	May 15	15100	Apr 23 1973
LOWEST DAILY MEAN	.90	Oct 3	.90	Oct 3	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	1.6	Sep 13	2.3	Oct 28	.00	Several Years
MAXIMUM PEAK FLOW	---		7150	May 15	17700	Apr 23 1973
MAXIMUM PEAK STAGE	---		20.49	May 15	27.14	Apr 23 1973
INSTANTANEOUS LOW FLOW	---		.56	Oct 3	.00	Several Years
ANNUAL RUNOFF (INCHES)	1.15		12.59		9.64	
10 PERCENT EXCEEDS	39		748		583	
50 PERCENT EXCEEDS	7.3		37		39	
90 PERCENT EXCEEDS	3.1		4.0		2.8	

05499900 TROUBLESOME CREEK NEAR EWING, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°59'52", long 91°50'37", in NE $^1/_4$ NE $^1/_4$ SE $^1/_4$ sec.13, T.60 N., R.9 W., Lewis County, Hydrologic Unit 07110003, located approximately 2.0 mi west of Ewing on U.S. Highway 156.

DRAINAGE AREA.--2.88 mi^2.

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
28...	0845	ENVIRONMENTAL	.32	7.8	56.6	6.8	315	2.1	127	36.2	8.97	9.88
JAN												
08...	1510	ENVIRONMENTAL	.32	6.3	43.3	7.2	293	.4	--	--	--	--
MAR												
27...	0945	ENVIRONMENTAL	14	14.0	106	7.3	321	4.0	--	--	--	--
MAY												
16...	1245	ENVIRONMENTAL	646	4.8	55.4	6.9	141	21.8	55.3	16.6	3.39	5.30
JUL												
24...	1320	ENVIRONMENTAL	.25	4.9	65.1	7.1	375	28.5	--	--	--	--
SEP												
04...	1320	ENVIRONMENTAL	.09	7.9	97.4	7.9	295	23.8	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
28...	11.8	117	120	147	0	15.7	.2	25.5	22	218	.045	1.2	1.48
JAN													
08...	--	164	168	205	0	--	--	--	--	--	.250	1.1	.124
MAR													
27...	--	81	86	104	0	--	--	--	--	--	.110	1.1	1.47
MAY													
16...	4.1	41	40	49	0	6.2	.2	7.3	262	164	.115	2.0	1.21
JUL													
24...	--	137	140	171	0	--	--	--	--	--	<.040	.61	.074
SEP													
04...	--	111	110	134	0	--	--	--	--	--	<.040	.72	.906

05499900 TROUBLESOME CREEK NEAR EWING, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
28...	.059	.105	.069	.185	35	74	110	100	334	647	1.5	<8.00	<.11
JAN													
08...	E.005	.090	.033	.144	--	K1	65	98	--	--	--	--	--
MAR													
27...	.023	E.031	.021	.178	--	K8	K13	K53	--	--	--	--	--
MAY													
16...	.103	.245	.206	.535	33	2500	3200	4300	864	4650	1.7	<8.00	<.10
JUL													
24...	E.004	<.060	<.020	E.057	--	K190	300	130	--	--	--	--	--
SEP													
04...	.080	<.060	<.020	.062	--	190	240	390	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV							
28...	E3.6	1180	.56	2	322	<.14	5
JAN							
08...	--	--	--	--	--	--	--
MAR							
27...	--	--	--	--	--	--	--
MAY							
16...	E2.7	840	1.45	6	81.5	.02	20
JUL							
24...	--	--	--	--	--	--	--
SEP							
04...	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO

LOCATION.--Lat 39°53'49", long 91°34'49", in SW $^1/_4$ NW $^1/_4$ sec.21, T.59 N., R.6 W., Marion County, Hydrologic Unit 07110003, on right bank at downstream side of county highway bridge, 4.5 mi southwest of Taylor, 5.0 mi downstream from Grassy Creek, and 5.3 mi upstream from confluence with North Fabius River.

DRAINAGE AREA.--620 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1934 to current year. Prior to December 1934 monthly discharge only published in WSP 1308.

REVISED RECORDS.--WSP 825: 1936.

GAGE.--Water-stage recorder. Datum of gage is 482.91 ft above sea level (levels by the U.S. Army Corps of Engineers). Prior to May 14, 1936, nonrecording gage at bridge 4.0 mi downstream at datum 21.94 ft lower; May 14, 1936, to Dec. 2, 1940, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records good except for periods Oct. 22 to Nov. 8 and estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1928 reached a stage of 18.49 ft, from floodmarks, at present site and datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	3.7	8.8	e4.6	3260	529	137	89	4980	41	28	5.4
2	3.9	4.4	8.9	e4.5	817	374	130	81	2940	36	22	6.6
3	2.4	4.0	8.9	e4.5	409	427	123	76	1550	34	33	8.7
4	3.6	3.9	8.6	e4.5	397	506	119	946	3940	31	37	6.7
5	5.7	3.7	8.1	e4.4	281	450	121	888	5090	28	243	7.7
6	6.9	7.3	8.3	e4.4	224	315	136	1450	8730	26	239	13
7	6.4	10	8.4	e4.4	150	235	1140	1340	7920	55	106	10
8	14	10	8.3	e4.3	250	203	836	851	7410	48	60	7.6
9	14	25	7.6	e4.3	5440	171	354	409	3910	37	43	10
10	37	146	7.4	e4.3	5890	150	245	260	1040	29	38	11
11	28	141	e7.1	e4.3	5670	135	602	192	615	23	28	33
12	20	201	e7.1	e4.3	3200	126	1060	156	403	24	21	27
13	14	115	e6.9	e4.2	963	120	757	130	300	23	17	16
14	11	66	e6.9	e8.0	679	125	408	5480	244	19	13	10
15	13	45	e6.8	102	751	579	315	9440	220	17	11	6.7
16	9.3	35	e6.7	749	663	5420	281	e8000	540	16	10	4.8
17	8.7	27	e6.6	1190	346	5880	278	e1800	1050	14	8.7	4.3
18	7.9	22	e6.6	705	211	4660	240	1150	391	14	7.6	5.1
19	6.7	19	e6.7	362	255	1880	177	1750	212	15	6.5	8.1
20	5.4	16	e6.4	373	190	1010	144	688	147	14	6.1	36
21	3.1	14	e6.2	233	147	683	731	719	128	14	5.8	76
22	3.7	13	e6.1	151	131	511	1620	860	110	13	5.2	160
23	4.3	12	e6.0	114	108	369	702	444	391	14	24	69
24	3.7	10	e5.7	78	2280	295	428	298	313	13	18	57
25	3.5	11	e5.6	59	6250	244	290	222	146	24	16	63
26	4.2	12	e5.4	43	6070	201	209	186	98	19	13	42
27	3.8	10	e5.1	35	3380	168	167	160	75	53	9.3	29
28	3.2	10	e5.2	36	907	147	137	139	62	176	8.6	21
29	2.8	10	e4.8	2540	---	137	117	119	53	82	8.1	16
30	2.6	9.2	e4.7	4470	---	133	101	218	46	50	7.2	13
31	3.4	---	e4.6	4360	---	130	---	4390	---	37	6.8	---
MEAN	8.46	33.9	6.79	505	1761	849	404	1385	1768	33.5	35.5	26.1
MAX	37	201	8.9	4470	6250	5880	1620	9440	8730	176	243	160
MIN	2.4	3.7	4.6	4.2	108	120	101	76	46	13	5.2	4.3
IN.	.02	.06	.01	.94	2.96	1.58	.73	2.58	3.18	.06	.07	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2001, BY WATER YEAR (WY)

MEAN	264	295	253	301	541	709	771	745	503	384	169	194
MAX	2690	3103	2137	2000	2340	2659	3989	4078	3891	3647	2335	2841
(WY)	1987	1986	1983	1965	1982	1973	1973	1995	1947	1993	1970	1970
MIN	.000	.000	1.52	2.12	4.78	15.0	13.4	7.56	5.68	.71	.000	.39
(WY)	1957	1957	1957	1954	1989	1956	1989	1989	1977	1988	1936	1953

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1935 - 2001	
ANNUAL MEAN	69.8		558		420	
HIGHEST ANNUAL MEAN					1147	1993
LOWEST ANNUAL MEAN					27.4	1989
HIGHEST DAILY MEAN	3940	Jun 26	9440	May 15	18800	Jun 8 1947
LOWEST DAILY MEAN	1.5	Sep 18	2.4	Oct 3	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	2.1	Sep 15	3.4	Oct 25	.00	Several Years
MAXIMUM PEAK FLOW	---		10900	May 16	19700	Jun 8 1947
MAXIMUM PEAK STAGE	---		13.29	May 16	19.50	Jun 8 1947
INSTANTANEOUS LOW FLOW	---		1.8	Oct 3	.00	Several Years
ANNUAL RUNOFF (INCHES)	1.53		12.23		9.20	
10 PERCENT EXCEEDS	135		1140		1000	
50 PERCENT EXCEEDS	12		48		62	
90 PERCENT EXCEEDS	4.4		4.8		4.3	

e Estimated

05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1972 to August 1973, October 1979 to October 1989, November 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT												
03...	0825	ENVIRONMENTAL	2.6	5.8	61	7.9	435	17.9	--	--	--	--
NOV												
28...	1130	ENVIRONMENTAL	10	13.7	102	7.8	404	3.2	170	50.9	11.3	6.90
DEC												
27...	1310	ENVIRONMENTAL	e5.1	18.5	128	7.6	296	.5	--	--	--	--
JAN												
08...	1330	ENVIRONMENTAL	e4.3	16.3	112	8.0	360	.3	240	69.2	16.7	5.79
08...	1331	BLANK	--	--	--	--	--	--	--	.05	E.007	<.20
FEB												
21...	0830	ENVIRONMENTAL	144	13.7	95	7.2	206	.7	--	--	--	--
MAR												
27...	1150	ENVIRONMENTAL	168	13.3	107	7.7	362	6.6	--	--	--	--
APR												
24...	1015	ENVIRONMENTAL	440	6.5	65	7.7	292	15.9	--	--	--	--
MAY												
17...	0830	ENVIRONMENTAL	2150	5.6	67	7.5	170	22.6	72	22.2	4.07	5.08
JUN												
20...	0839	BLANK	--	--	--	--	--	--	--	--	--	--
20...	0840	ENVIRONMENTAL	151	6.8	81	7.5	237	22.9	--	--	--	--
JUL												
24...	1035	ENVIRONMENTAL	13	5.4	73	7.9	418	29.4	200	59.0	11.9	3.82
AUG												
20...	1340	ENVIRONMENTAL	5.9	10.4	133	8.6	284	27.1	--	--	--	--
SEP												
04...	1210	ENVIRONMENTAL	6.8	6.7	88	8.2	314	27.5	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT													
03...	--	151	151	184	0	--	--	--	--	--	<.020	.43	<.050
NOV													
28...	14.8	162	162	198	0	15.8	.2	42.1	<10	258	<.041	.61	.466
DEC													
27...	--	191	194	236	0	--	--	--	--	--	<.041	.47	.049
JAN													
08...	18.9	200	200	244	0	16.2	E.1	77.1	<10	350	<.040	.48	.096
08...	.3	--	--	--	--	.2	<.2	E.1	<10	<10	<.040	<.08	<.050
FEB													
21...	--	79	80	98	0	--	--	--	--	--	.263	.97	1.60
MAR													
27...	--	106	107	131	0	--	--	--	--	--	<.041	.74	1.24
APR													
24...	--	85	85	104	0	--	--	--	--	--	.045	1.4	1.07
MAY													
17...	4.1	55	54	66	0	5.7	.2	11.0	303	176	E.036	1.9	.838
JUN													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	85	83	101	0	--	--	--	--	--	<.040	1.0	.885
JUL													
24...	13.3	161	161	197	0	10.5	.2	36.0	19	250	<.040	.71	<.050
AUG													
20...	--	105	106	116	6	--	--	--	--	--	E.021	.85	.060
SEP													
04...	--	126	128	156	0	--	--	--	--	--	<.040	.58	<.050

05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
03...	<.010	E.031	.024	.056	--	140	170	44	--	--	--	--	--
NOV													
28...	.023	E.038	E.010	.071	36	K8	K17	K23	130	160	1.0	<8.00	<.11
DEC													
27...	.006	<.060	<.018	<.060	--	K1	K1	K5	--	--	--	--	--
JAN													
08...	E.004	<.060	<.020	E.030	<10	K2	24	46	11	69	.6	<8.00	<.10
08...	<.006	<.060	<.020	<.060	<10	--	--	--	8	8	<.2	<8.00	<.10
FEB													
21...	.034	.141	.087	.175	--	K2	21	130	--	--	--	--	--
MAR													
27...	.016	<.060	E.015	.135	--	K20	K50	K53	--	--	--	--	--
APR													
24...	.055	.137	.094	.263	--	790	K1000	260	--	--	--	--	--
MAY													
17...	.071	.187	.132	.527	41	K1600	5800	1600	769	5000	1.7	<8.00	E.10
JUN													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	.026	.104	.074	.185	--	210	K300	K400	--	--	--	--	--
JUL													
24...	<.006	<.060	<.020	.067	25	44	K57	57	35	201	1.7	<8.00	<.10
AUG													
20...	E.004	E.035	E.015	.080	--	K15	47	28	--	--	--	--	--
SEP													
04...	<.006	<.060	<.020	E.046	--	66	66	74	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)
OCT													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
28...	<4.7	240	.13	<1	25.5	<.14	--	4	<.002	<.004	<.002	<.005	.065
DEC													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
08...	<5.0	60	.24	<1	69.6	<.10	--	4	--	--	--	--	--
08...	<5.0	<10	<.08	<1	<3.0	<.10	5	2	--	--	--	--	--
FEB													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
27...	--	--	--	--	--	--	--	--	<.002	<.004	<.002	<.005	.109
APR													
24...	--	--	--	--	--	--	--	--	<.002	.124	.015	<.005	3.92
MAY													
17...	<5.0	820	1.46	7	22.2	.02	--	22	<.002	.739	.544	<.005	15.2
JUN													
20...	--	--	--	--	--	--	--	--	<.002	E.004	<.002	<.005	.019
20...	--	--	--	--	--	--	--	--	<.002	.168	.194	<.005	2.89
JUL													
24...	<5.0	20	<.08	<1	21.5	.10	7	3	<.002	.013	<.002	<.005	.768
AUG													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--

05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL-ATE, WATER, DISS, REC (µg/L) (04028)	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (µg/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)	DI-ELDRIN DIS-SOLVED (µg/L) (39381)	DISUL-FOTON WATER FLTRD 0.7µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7µ GF, REC (µg/L) (82663)
OCT													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
28...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.046	<.005	<.005	<.021	<.002	<.009
DEC													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
27...	<.010	<.002	<.041	<.020	<.005	E.007	<.003	E.022	<.005	<.005	<.021	<.002	<.009
APR													
24...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.051	<.005	<.005	<.021	<.002	<.009
MAY													
17...	<.010	<.002	<.041	<.020	<.005	.018	<.003	E.549	<.005	<.005	<.021	<.002	<.009
JUN													
20...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.021	<.002	<.009
20...	<.010	<.002	<.041	<.020	<.005	E.014	<.003	E.502	<.005	<.005	<.021	<.002	<.009
JUL													
24...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.249	<.005	<.005	<.021	<.002	<.009
AUG													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ETHO-PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS-SOLVED (µg/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA-THION, DIS-SOLVED (µg/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA-THION, DIS-SOLVED (µg/L) (39542)
OCT													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
28...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.051	<.006	<.002	<.007	<.003	<.007
DEC													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
27...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.027	<.006	<.002	<.007	<.003	<.007
APR													
24...	<.005	<.003	<.004	<.035	<.027	<.050	<.020	1.45	.138	<.002	<.007	<.003	<.007
MAY													
17...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	3.29	.118	<.002	<.007	<.003	<.007
JUN													
20...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.011	<.006	<.002	<.007	<.003	<.007
20...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	1.09	.034	<.002	<.007	<.003	<.007
JUL													
24...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.321	<.006	<.002	<.007	<.003	<.007
AUG													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--

05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PEB-ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO-PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI-MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER-BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)
OCT													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
28...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	E.010	E.010	<.034	<.017
DEC													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
27...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	E.008	<.016	<.034	<.017
APR													
24...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.298	E.010	<.034	<.017
MAY													
17...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	1.66	E.010	<.034	<.017
JUN													
20...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
20...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.299	<.016	<.034	<.017
JUL													
24...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.129	E.009	<.034	<.017
AUG													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	THIO-ENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)
OCT			
03...	--	--	--
NOV			
28...	<.005	<.002	<.009
DEC			
27...	--	--	--
JAN			
08...	--	--	--
08...	--	--	--
FEB			
21...	--	--	--
MAR			
27...	<.005	<.002	<.009
APR			
24...	<.005	<.002	<.009
MAY			
17...	<.005	<.002	<.009
JUN			
20...	<.005	<.002	<.009
20...	<.005	<.002	<.009
JUL			
24...	<.005	<.002	<.009
AUG			
20...	--	--	--
SEP			
04...	--	--	--

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

05501000 NORTH RIVER AT PALMYRA, MO

LOCATION.--Lat 39°49'06", long 91°31'13", in SE $^1/_4$ SW $^1/_4$ sec.13, T.58 N., R.6 W., Marion County, Hydrologic Unit 07110004, on right bank 100 ft upstream from City Waterworks Dam, 1,000 ft upstream from upstream bridge on dual U.S. Highways 24 and 61, 0.5 mi north of Palmyra, and 7.0 mi upstream from mouth.

DRAINAGE AREA.--373 mi^2.

PERIOD OF RECORD.--December 1934 to current year.

GAGE.--Water-stage recorder. Datum of gage is 464.81 ft above sea level (levels by the U.S. Army Corps of Engineers). Prior to Oct. 1, 1945, nonrecording gage at bridge 1,000 ft downstream; Oct. 1, 1945, to June 22, 1951, nonrecording gage at present site and datum.

REMARKS.--Records poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage prior to 1934, about 28.0 ft, from floodmarks, date unknown, at site 1,000 ft downstream, present datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	4.8	11	2.4	247	145	73	e27	e3310	15	4.5	5.0
2	2.8	6.8	11	1.9	100	118	71	e25	1160	13	4.4	4.8
3	.93	7.9	11	1.7	79	235	70	e22	e373	12	4.9	4.6
4	.84	8.0	9.6	1.7	65	182	69	e690	3230	12	4.6	4.0
5	3.2	7.3	9.0	1.9	56	117	69	e602	2000	11	4.2	3.5
6	16	11	9.0	2.1	56	83	67	e922	5520	8.7	3.5	3.4
7	5.4	18	8.9	2.2	58	70	66	e830	3040	8.2	3.1	3.8
8	2.4	16	8.7	1.8	99	71	65	e343	e1400	7.2	2.2	4.4
9	1.4	22	8.4	1.7	3250	73	64	e189	720	6.3	2.3	10
10	1.1	48	8.5	2.1	e2990	73	67	e132	533	5.4	2.8	12
11	.97	68	10	2.2	646	73	601	e93	403	5.3	2.3	10
12	.94	45	9.1	3.0	219	72	631	e55	292	6.2	2.0	13
13	.94	42	10	4.4	131	71	130	e44	208	6.5	1.6	13
14	1.1	30	11	20	97	69	108	e185	150	6.5	1.4	6.6
15	4.2	24	11	130	137	133	112	e778	134	6.4	1.2	5.3
16	13	21	11	71	112	2760	109	e221	104	6.1	1.7	4.5
17	12	17	8.8	48	66	e2540	110	e278	91	5.8	2.1	3.9
18	12	14	7.6	38	61	439	111	e178	77	5.7	2.8	4.0
19	10	13	7.0	38	62	342	111	e314	65	5.9	3.5	6.5
20	8.5	12	5.5	34	63	211	111	e92	54	6.5	3.3	7.4
21	6.8	12	5.5	32	64	149	703	e192	68	6.4	3.5	37
22	5.3	11	4.0	23	63	116	1630	e342	71	5.8	4.1	155
23	4.9	10	3.7	19	65	99	e468	e142	55	6.9	17	71
24	5.0	10	3.7	14	1980	85	e235	e100	41	5.7	648	51
25	4.9	12	2.8	10	3320	83	e132	e35	34	6.9	139	31
26	4.5	14	2.8	12	e3070	81	e84	e13	29	6.7	35	20
27	4.9	13	3.1	9.1	399	79	e66	e12	24	10	15	16
28	4.9	11	3.1	9.2	226	78	e47	e10	22	12	8.1	13
29	4.9	11	3.1	2660	---	78	e38	e13	19	8.4	5.8	10
30	4.1	11	2.9	2500	---	76	e36	799	17	5.9	5.1	9.6
31	4.0	---	2.6	1020	---	74	---	2990	---	4.8	5.4	---
MEAN	5.14	18.4	7.21	217	635	286	208	344	775	7.72	30.5	18.1
MAX	16	68	11	2660	3320	2760	1630	2990	5520	15	648	155
MIN	.84	4.8	2.6	1.7	56	69	36	10	17	4.8	1.2	3.4
IN.	.02	.05	.02	.67	1.77	.89	.62	1.06	2.32	.02	.09	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2001, BY WATER YEAR (WY)

MEAN	150	178	168	185	324	445	486	475	315	244	106	123
MAX	1742	2639	1832	991	1720	2783	2691	2249	2296	2100	1357	1351
(WY)	1987	1986	1983	1969	1982	1973	1973	1935	1947	1993	1970	1970
MIN	.000	.000	.23	.66	.92	6.54	24.8	15.5	4.77	.52	.000	.17
(WY)	1957	1957	1957	1954	1954	1956	2000	1989	1936	1936	1936	1940

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1935 - 2001	
ANNUAL MEAN	26.5		209		263	
HIGHEST ANNUAL MEAN					748	1973
LOWEST ANNUAL MEAN					22.1	1989
HIGHEST DAILY MEAN	1250	Jun 26	5520	Jun 6	32600	Apr 21 1973
LOWEST DAILY MEAN	.84	Oct 4	.84	Oct 4	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	1.3	Oct 8	1.3	Oct 8	.00	Several Years
MAXIMUM PEAK FLOW	---		7130	Jun 6	57400	Apr 21 1973
MAXIMUM PEAK STAGE	---		17.59	Jun 6	29.70	Apr 21 1973
INSTANTANEOUS LOW FLOW	---		.82	Oct 3-5	.00	Several Years
ANNUAL RUNOFF (INCHES)	.97		7.60		9.57	
10 PERCENT EXCEEDS	47		383		476	
50 PERCENT EXCEEDS	10		15		39	
90 PERCENT EXCEEDS	3.3		3.0		3.5	

e Estimated

05502000 BEAR CREEK AT HANNIBAL, MO

LOCATION.--Lat 39°40'43", long 91°24'41", in SE $^1/_4$ NW $^1/_4$ sec.1, T.56 N., R.5 W., Ralls County, Hydrologic Unit 07110004, at bridge on Industrial Drive, on right downstream bank, and 4.65 mi upstream from mouth.

DRAINAGE AREA.--31.0 mi^2.

PERIOD OF RECORD.--October 1938 to September 1942, October 1947 to current year in reports of the U.S. Geological Survey. Monthly discharge only for some periods published in WSP 1308. October 1936 to November 1938 (gage- height and discharge measurements only) in reports of the Missouri Geological Survey.

REVISED RECORDS.--WSP 1115: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 508.91 ft above sea level. Prior to Mar. 26, 1948, nonrecording gage; Mar. 26, 1948, to Sept. 30, 1953, water-stage recorder at datum 2.00 ft higher; Oct. 1, 1953, to Oct. 30, 1961, at present datum; Oct. 31, 1961, to Sept. 5, 1972, water-stage recorder 400 ft downstream at present datum; Sept. 6, 1972, to July 2, 1986, water-stage recorder 525 ft upstream at present datum.

REMARKS.--Records poor. Flow partially regulated by Bear Creek flood control reservoir, 1.0 mi upstream, since Aug. 7, 1961.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,500 ft^3/s, Aug. 3, 1957; gage height, 14.05 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.38	2.1	2.3	2.0	311	173	10	5.6	52	2.9	.99	1.0
2	.25	2.1	2.3	1.3	285	168	9.6	5.7	12	2.5	1.4	1.0
3	.32	2.1	2.2	1.7	276	161	10	4.8	7.0	2.3	5.7	1.1
4	.84	1.9	2.2	2.6	54	138	10	6.6	112	2.3	2.0	.88
5	19	1.9	2.1	2.7	14	19	9.6	6.6	65	2.3	1.6	.90
6	13	5.3	e2.2	2.5	14	14	10	6.3	163	2.1	1.3	.86
7	2.7	7.6	2.2	2.5	12	13	9.4	7.5	143	2.0	1.1	.97
8	2.1	3.7	2.2	2.2	25	12	7.5	6.5	251	1.8	1.0	1.1
9	1.8	3.6	2.2	2.0	112	12	7.3	4.5	250	1.7	2.1	1.6
10	1.6	4.3	2.3	2.0	69	11	11	3.9	230	1.6	2.3	1.5
11	1.5	3.4	2.4	2.3	66	11	57	3.9	67	1.4	1.3	1.1
12	1.4	3.0	2.2	2.6	121	11	117	3.5	7.2	1.9	.95	.71
13	1.3	2.8	2.4	4.3	140	10	88	3.4	5.4	2.0	.85	.56
14	3.1	2.7	2.5	27	104	9.3	17	4.4	11	2.0	.78	.54
15	11	2.6	2.4	40	116	46	32	4.0	17	1.8	.97	.58
16	4.3	2.5	2.5	25	72	138	17	3.2	6.0	1.6	1.5	.61
17	5.2	2.4	2.2	6.5	12	124	13	3.5	4.3	1.5	1.1	.94
18	3.5	2.3	2.1	5.8	9.2	119	12	4.7	3.8	1.4	.78	1.7
19	2.7	2.3	2.3	3.7	8.5	137	11	7.5	3.4	1.8	.82	1.6
20	2.3	2.2	2.6	3.2	9.0	141	11	5.7	3.4	2.0	.74	1.5
21	2.2	2.2	2.5	3.0	7.1	46	27	25	9.7	1.9	.65	3.1
22	2.4	2.2	2.9	2.9	7.1	17	18	8.5	18	1.5	.68	2.5
23	2.3	2.2	2.9	2.9	7.1	15	13	5.2	5.1	1.4	12	2.0
24	2.5	2.3	2.5	2.8	141	13	10	4.3	3.8	1.4	25	1.5
25	2.6	2.7	2.4	2.5	83	12	9.6	4.4	3.4	2.0	7.6	1.2
26	2.4	2.8	2.8	2.7	72	12	8.9	4.6	3.0	1.9	2.3	1.2
27	2.1	2.5	2.7	2.6	121	11	8.1	4.1	2.8	1.8	1.9	1.1
28	2.1	2.4	2.4	7.9	179	11	7.1	3.6	2.8	1.6	1.4	.95
29	2.1	2.4	2.4	144	---	11	6.5	3.3	2.8	1.6	1.2	.90
30	2.0	2.2	2.3	183	---	11	6.0	4.4	2.9	1.4	1.2	.93
31	2.0	---	2.1	325	---	11	---	63	---	1.1	1.1	---
MEAN	3.32	2.82	2.38	26.5	87.4	52.8	19.5	7.49	48.9	1.82	2.72	1.20
MAX	19	7.6	2.9	325	311	173	117	63	251	2.9	25	3.1
MIN	.25	1.9	2.1	1.3	7.1	9.3	6.0	3.2	2.8	1.1	.65	.54
IN.	.12	.10	.09	.99	2.94	1.96	.70	.28	1.76	.07	.10	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2001[a], BY WATER YEAR (WY)

MEAN	14.0	20.0	18.4	15.9	32.1	38.4	38.6	36.9	22.2	19.4	14.7	14.2
MAX	116	225	155	84.0	136	125	193	146	76.5	193	141	190
(WY)	1970	1986	1983	1969	1997	1973	1973	1991	1982	1981	1993	1970
MIN	.016	.15	.11	.27	.85	2.86	2.94	2.25	.58	.026	.15	.006
(WY)	1964	1964	1964	1977	1964	1981	2000	2000	1963	1977	1962	1988

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1962 - 2001[a]	
ANNUAL MEAN	7.09		20.9		23.7	
HIGHEST ANNUAL MEAN					57.9	1993
LOWEST ANNUAL MEAN					5.33	1989
HIGHEST DAILY MEAN	207	Mar 27	325	Jan 31	1470	Sep 25 1970
LOWEST DAILY MEAN	.05	Sep 18	.25	Oct 2	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	.26	Sep 13	.72	Sep 11	.00	Several Years
MAXIMUM PEAK FLOW	---		602	Jun 4	3120	Sep 23 1970
MAXIMUM PEAK STAGE	---		5.51	Jun 4	9.24	May 14 1970
INSTANTANEOUS LOW FLOW	---		.07	Oct 2,4	.00	Several Years
ANNUAL RUNOFF (INCHES)	3.11		9.15		10.37	
10 PERCENT EXCEEDS	6.9		66		52	
50 PERCENT EXCEEDS	2.2		2.9		4.6	
90 PERCENT EXCEEDS	.99		1.1		.56	

e Estimated
[a] Post-regulation period.

05502300 NORTH FORK SALT RIVER AT HAGERS GROVE, MO

LOCATION.--Lat 39°49'40", long 92°14'10", in NE $^1/_4$ SW $^1/_4$ sec.15, T.58 N., R.12 W., Shelby County, Hydrologic Unit 07110005, at bridge on State Highway 151, 200 ft downstream from old channel carrying Bear Creek, 0.25 mi west of Hagers Grove, 2.5 mi upstream from Ten Mile Creek, and at mile 143.8.

DRAINAGE AREA.--365 mi^2.

PERIOD OF RECORD.--September 1974 to current year. Prior to October 1983 published as "Salt River at Hagers Grove, Mo.". September 1939 to August 1974, gage-height and miscellaneous measurements published by the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 702.30 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1947 reached a stage of 19.7 ft, discharge 26,900 ft^3/s, according to information furnished by the U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	5.7	6.4	e4.2	197	95	63	30	654	21	19	14
2	6.2	8.3	6.1	e4.2	117	106	64	27	631	20	14	9.7
3	4.8	12	3.9	e4.4	138	200	63	36	259	30	582	7.9
4	4.2	12	6.4	e4.5	75	211	66	232	2600	186	1110	6.8
5	18	11	3.5	e4.5	68	123	60	308	2780	168	209	4.8
6	38	65	e3.8	e4.7	123	100	1670	123	9290	64	84	5.2
7	53	75	e5.0	e5.0	188	96	435	218	4790	39	45	5.2
8	39	88	e5.9	e5.1	781	84	174	109	1190	30	29	6.0
9	20	436	e4.2	e5.2	9530	73	109	66	240	26	24	10
10	12	247	e6.7	e5.2	4200	66	92	44	136	24	38	9.3
11	8.5	69	e3.2	e5.0	603	62	214	40	98	23	28	7.4
12	6.3	40	e2.6	e19	220	70	429	36	75	21	18	8.0
13	5.8	26	e3.0	e43	184	94	168	33	52	18	14	6.4
14	7.1	18	e3.2	e375	302	98	96	41	45	16	12	4.2
15	35	13	e3.0	e913	326	927	97	48	1130	16	11	3.4
16	12	10	e4.3	e512	159	6370	142	41	500	14	11	4.1
17	7.3	8.5	e4.8	e251	86	1700	93	35	137	15	11	4.7
18	9.1	7.7	e4.4	e76	84	805	66	32	71	13	10	17
19	9.3	7.1	e4.1	e34	59	448	56	30	48	12	10	51
20	7.2	6.7	e4.3	e22	55	262	52	28	38	44	9.0	41
21	7.0	7.0	e4.2	e27	48	155	839	46	169	37	8.0	181
22	6.8	6.4	e4.2	e18	43	113	357	33	432	43	7.4	110
23	8.2	7.4	e4.0	e14	39	104	201	29	130	22	8.4	81
24	4.8	7.8	e3.6	e14	3150	98	122	26	75	18	11	38
25	4.8	6.9	e3.6	e9.6	5940	87	85	23	57	1560	9.5	23
26	4.5	6.5	e3.9	e12	916	79	61	23	44	904	11	20
27	4.1	6.4	e4.4	e11	205	71	51	23	32	158	10	16
28	5.3	5.4	e4.1	32	108	67	43	25	26	76	11	14
29	6.4	5.7	e4.3	2890	---	70	37	23	24	66	7.5	13
30	5.2	5.3	e4.2	3490	---	68	33	26	22	50	6.4	13
31	5.6	---	e4.1	830	---	67	---	1300	---	27	13	---
MEAN	12.1	41.0	4.30	311	998	418	201	101	859	121	77.1	24.5
MAX	53	436	6.7	3490	9530	6370	1670	1300	9290	1560	1110	181
MIN	4.1	5.3	2.6	4.2	39	62	33	23	22	12	6.4	3.4
IN.	.04	.13	.01	.98	2.85	1.32	.62	.32	2.63	.38	.24	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2001, BY WATER YEAR (WY)

MEAN	181	286	199	131	356	428	465	569	287	384	90.8	109
MAX	1201	1426	1319	576	1599	1177	2036	2631	1074	3033	441	937
(WY)	1987	1986	1983	1999	1982	1979	1983	1995	1984	1993	1982	1993
MIN	2.02	4.40	2.20	1.13	5.18	22.5	8.20	10.4	3.55	4.01	3.90	3.41
(WY)	1989	1976	1977	1977	1989	1989	1989	1980	1988	1988	1984	1988

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1974 - 2001	
ANNUAL MEAN	32.9		258		290	
HIGHEST ANNUAL MEAN					767	1993
LOWEST ANNUAL MEAN					30.1	2000
HIGHEST DAILY MEAN	1630	Jun 26	9530	Feb 9	18800	Apr 3 1983
LOWEST DAILY MEAN	2.6	Dec 12	2.6	Dec 12	.18	Aug 7 1988
ANNUAL SEVEN-DAY MINIMUM	3.4	Dec 11	3.4	Dec 11	.44	Oct 20 1991
MAXIMUM PEAK FLOW	---		12000	Jun 6	22000	Apr 3 1983
MAXIMUM PEAK STAGE	---		17.99	Jun 6	18.80	Apr 3 1983
INSTANTANEOUS LOW FLOW	---		1.7	Oct 24,26	.17	Oct 23 1991
ANNUAL RUNOFF (INCHES)	1.23		9.59		10.81	
10 PERCENT EXCEEDS	57		430		524	
50 PERCENT EXCEEDS	9.4		30		31	
90 PERCENT EXCEEDS	4.6		4.7		4.2	

e Estimated

05502500 NORTH FORK SALT RIVER NEAR SHELBINA, MO

LOCATION.--Lat 39°44'29", long 92°02'26", in SW $^1/_4$ NE $^1/_4$ sec.17, T.57 N., R.10 W., Shelby County, Hydrologic Unit 07110005, on right bank near downstream end of bridge on State Highway 15, 3.0 mi north of Shelbina, 15.0 mi upstream from Black Creek, and at mile 122.3.

DRAINAGE AREA.--481 mi^2.

PERIOD OF RECORD.--April 1930 to February 1934, March 1934 to September 1972. March 1988 to current year. Prior to March 1988 published as "Salt River near Shelbina, Mo.". Fragmentary record prior to October 1933. Monthly discharge only for period October 1933 to February 1934 published in WSP 1308.

GAGE.--Water-stage recorder and crest-stage gage with concrete control since Mar. 25, 1988. Datum of gage is 664.58 ft above sea level. Prior to Mar. 1, 1934, nonrecording gage at site 100 ft downstream at present datum; Mar. 1, 1934, to Nov. 2, 1962, water-stage recorder at site 175 ft downstream at present datum; Nov. 3, 1962, to Sept. 30, 1972, water-stage recorder at site 100 ft upstream at present datum; Oct. 1, 1972, to Sept. 30, 1979, gage-height records collected by St. Louis U.S. Army Corps of Engineers at site 100 ft downstream; Oct. 1, 1979, to Sept. 1981, gage-height data collected by the U.S. Geological Survey at site 100 ft downstream.

REMARKS.--Records good except for discharges below 50 ft^3/s, which are poor. Water is pumped from river at the gage by the city of Shelbina. U. S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1928 reached a stage of 23.54 ft, from floodmarks, discharge 18,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	21	8.3	6.0	708	240	81	47	1720	23	37	31
2	8.2	17	8.6	6.1	186	242	77	44	1040	21	29	25
3	10	20	7.8	6.0	183	433	82	66	723	20	62	20
4	10	16	8.6	5.9	159	481	99	1330	2850	118	1680	14
5	19	17	7.9	6.3	113	359	93	777	5130	323	450	11
6	36	34	7.3	6.6	179	189	1350	409	6480	112	131	11
7	41	127	8.8	6.9	274	130	1330	498	9530	50	66	11
8	35	68	9.2	7.0	599	105	351	344	6580	37	43	11
9	18	456	7.2	7.0	5430	86	177	185	1090	31	31	61
10	11	545	9.2	6.8	8780	75	126	103	382	25	33	50
11	8.0	197	5.8	7.2	5170	69	299	79	219	21	34	15
12	7.1	87	4.8	8.1	704	72	771	66	129	27	23	12
13	9.5	48	5.0	14	470	92	406	50	85	29	18	13
14	24	30	4.6	288	500	118	189	56	63	23	15	11
15	49	21	4.9	864	680	480	180	69	919	17	14	9.9
16	35	16	6.4	581	407	5300	233	68	1090	16	16	10
17	13	13	6.6	288	148	6280	194	49	283	16	15	12
18	10	11	5.9	128	125	2200	107	40	128	15	15	18
19	11	11	5.8	99	128	934	81	36	81	18	13	221
20	11	9.0	5.7	39	98	657	72	32	61	23	13	53
21	8.5	9.2	6.0	48	78	460	1450	67	103	78	13	361
22	9.9	9.8	6.0	34	64	322	1650	50	637	60	13	176
23	12	9.7	5.9	26	60	241	533	37	291	46	16	134
24	8.3	10	5.9	21	1930	203	312	30	110	24	187	76
25	6.2	10	5.3	17	6920	151	193	28	68	850	35	32
26	8.4	10	5.3	17	5830	113	124	27	50	1920	19	21
27	13	9.3	5.8	15	891	92	92	27	40	350	19	19
28	12	9.2	5.7	14	363	82	73	26	33	129	20	16
29	12	8.6	6.0	2520	---	86	60	25	28	91	20	14
30	14	8.3	5.9	6310	---	87	52	25	26	87	20	14
31	16	---	6.0	3680	---	88	---	1810	---	60	21	---
MEAN	16.1	61.9	6.52	487	1471	660	361	210	1332	150	101	49.4
MAX	49	545	9.2	6310	8780	6280	1650	1810	9530	1920	1680	361
MIN	6.2	8.3	4.6	5.9	60	69	52	25	26	15	13	9.9
IN.	.04	.14	.02	1.17	3.18	1.58	.84	.50	3.09	.36	.24	.11

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	144	176	148	217	385	457	538	509	443	340	121	159
MAX	1208	1327	835	1319	1475	1417	1944	3460	4171	4119	1214	1831
(WY)	1999	1993	1972	1965	1997	1948	1944	1995	1947	1993	1970	1970
MIN	.000	.000	.000	.013	1.80	6.41	7.24	12.2	2.93	.000	.000	.000
(WY)	1953	1954	1954	1954	1934	1956	1989	2000	1988	1934	1936	1953

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	43.2		400		305	
HIGHEST ANNUAL MEAN					1037	1993
LOWEST ANNUAL MEAN					36.2	1989
HIGHEST DAILY MEAN	2680	Jun 26	9530	Jun 7	18600	Jun 7 1947
LOWEST DAILY MEAN	4.3	Jan 21,Feb 17	4.6	Dec 14	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	5.4	Dec 11	5.4	Dec 11	.00	Many Years
MAXIMUM PEAK FLOW	---		10300	Jun 7	23000	Jun 7 1947
MAXIMUM PEAK STAGE	---		19.84	Jun 7	27.40	Jun 7 1947
INSTANTANEOUS LOW FLOW	---		4.0	Oct 23	.00	Many Years
ANNUAL RUNOFF (INCHES)	1.22		11.28		8.62	
10 PERCENT EXCEEDS	64		742		699	
50 PERCENT EXCEEDS	10		41		32	
90 PERCENT EXCEEDS	5.9		7.6		1.9	

05503800 CROOKED CREEK NEAR PARIS, MO

LOCATION.--Lat 39°35'06", long 91°59'36", near NW corner S $^1/_2$ sec.2, T.55 N., R.10 W., Monroe County, Hydrologic Unit 07110005, on right bank downstream from county road bridge, 7.0 mi north of Paris, 1.4 mi north of State Route 15, and at mile 8.9.

DRAINAGE AREA.--80.0 mi^2.

PERIOD OF RECORD.--October 1979 to current year. March 1966 to October 1979 published by the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 650.00 ft above sea level. Prior to Nov. 8, 1967, wire-weight gage and Nov. 9, 1967, to Sept. 30, 1979, recording gage at datum 50 ft lower.

REMARKS.--Records fair. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1973 reached a stage of 15.53 ft; discharge, 12,100 ft^3/s, according to information furnished by the U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.60	.50	.62	87	34	11	5.4	304	1.1	.83	9.2
2	.00	.64	.46	.39	60	35	9.5	4.8	207	.85	.68	3.3
3	.00	1.2	.45	.30	42	93	9.8	4.4	71	.73	.54	2.1
4	.00	6.0	.43	.31	26	70	11	591	1060	24	.51	1.4
5	24	3.6	.40	.31	21	45	14	336	1090	47	.39	.94
6	62	3.8	.35	.45	20	26	15	43	1860	9.6	.28	.73
7	22	95	.32	.52	22	19	12	89	1110	4.2	.20	.65
8	7.7	51	.34	.59	167	16	9.7	70	66	2.4	.16	.55
9	3.0	244	.34	.53	1290	14	8.6	21	30	1.6	.14	1.7
10	1.3	183	.35	.43	583	12	11	12	18	1.2	.16	149
11	.39	46	.53	.55	94	e12	283	10	13	.82	.12	21
12	.26	20	.56	.74	51	13	171	9.5	9.5	1.0	.08	6.3
13	.16	11	.87	3.0	34	14	50	8.9	6.5	1.0	.05	3.2
14	.55	6.7	1.0	119	36	13	27	7.8	5.4	.98	.03	1.9
15	33	4.5	.97	182	56	223	37	6.5	5.4	.77	.05	1.3
16	24	3.3	1.0	66	39	1180	40	5.9	3.5	.62	.10	.94
17	14	2.4	.92	31	19	444	24	5.5	7.0	.53	.08	.86
18	5.7	1.6	.77	19	16	127	15	19	4.6	.43	.07	.89
19	2.1	1.7	.77	15	13	66	12	21	2.8	1.1	.06	82
20	1.0	1.4	.64	12	12	43	11	8.6	2.2	1.2	.04	46
21	2.5	1.1	.66	11	10	31	224	24	4.8	5.8	.05	10
22	1.6	.79	.60	9.8	9.0	25	373	37	7.8	4.5	.04	4.3
23	1.1	.77	.52	8.9	8.4	23	91	13	9.1	2.5	1.3	2.5
24	.70	.84	.56	8.4	829	20	34	6.5	4.4	1.5	109	1.8
25	.45	.99	.45	7.3	1520	16	20	4.9	2.9	2.1	94	1.7
26	.36	.91	.38	7.0	207	14	14	3.9	2.4	3.0	17	1.3
27	.45	.70	.49	7.1	69	12	12	3.2	2.1	5.8	6.2	1.2
28	.54	.75	.54	7.6	48	12	9.4	2.7	1.7	3.7	3.2	.93
29	.51	.72	.50	1140	---	12	7.5	2.4	1.6	2.2	2.0	.80
30	.51	.62	.46	2130	---	12	6.3	3.3	1.4	1.5	1.4	.66
31	.57	---	.48	329	---	11	---	648	---	1.1	15	---
MEAN	6.79	23.2	.57	133	192	86.7	52.4	65.4	197	4.35	8.19	12.0
MAX	62	244	1.0	2130	1520	1180	373	648	1860	47	109	149
MIN	.00	.60	.32	.30	8.4	11	6.3	2.4	1.4	.43	.03	.55
IN.	.10	.32	.01	1.92	2.51	1.25	.73	.94	2.75	.06	.12	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2001, BY WATER YEAR (WY)

MEAN	25.5	61.4	53.2	33.9	83.2	83.9	90.7	137	75.3	79.1	23.9	37.4
MAX	320	550	247	162	359	244	319	669	250	554	223	510
(WY)	1987	1986	1983	1999	1985	1998	1983	1995	1998	1993	1993	1993
MIN	.000	.000	.000	.000	.000	.066	.16	1.53	.031	.000	.000	.000
(WY)	1980	1981	1989	1989	1989	1989	1989	1988	1988	1988	1988	1983

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1980 - 2001	
ANNUAL MEAN	12.2		64.1		65.2	
HIGHEST ANNUAL MEAN					179	1993
LOWEST ANNUAL MEAN					7.38	1989
HIGHEST DAILY MEAN	529	Jun 25	2130	Jan 30	7150	May 7 1996
LOWEST DAILY MEAN	.00	Jan 1-22,Sep 27-30	.00	Oct 1-4	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.06	Aug 14	.00	Many Years
MAXIMUM PEAK FLOW	---		2780	Jan 30	9460	May 7 1996
MAXIMUM PEAK STAGE	---		9.21	Jan 30	13.62	May 7 1996
INSTANTANEOUS LOW FLOW	---		.00	Oct 1-4	.00	Many Years
ANNUAL RUNOFF (INCHES)	2.08		10.87		11.08	
10 PERCENT EXCEEDS	18		92		91	
50 PERCENT EXCEEDS	.50		4.9		3.3	
90 PERCENT EXCEEDS	.02		.40		.00	

05504800 SOUTH FORK SALT RIVER ABOVE SANTA FE, MO

LOCATION.--Lat 39°19'34", long 91°50'02", in SE $^1/_4$ SE $^1/_4$ sec.31, T.53 N., R.8 W., Audrain County, Hydrologic Unit 07110006, on left bank near downstream side of bridge on county road, 4.0 mi southwest of Santa Fe, 1.0 mi upstream from Littleby Creek, and at mile 104.2 above mouth of Salt River.

DRAINAGE AREA.--233 mi^2.

PERIOD OF RECORD.--February 1940 to current year. Published as "near Santa Fe" October 1969 to September 1975 and as "at Santa Fe" February 1940 to September 1968 and October 1975 to September 1986.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 644.87 ft above sea level. Prior to Feb. 5, 1940, nonrecording gage; Feb. 5, 1940, to Sept. 30, 1968, and Oct. 1, 1975 to Sept. 30, 1986, water-stage recorder 8.0 mi downstream at datum 613.05; Oct. 1, 1968, to Sept. 30, 1975, water-stage recorder, 1.0 mi downstream at datum 5.78 ft lower.

REMARKS.--Records good. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	6.7	4.3	298	181	32	21	443	11	10	13
2	15	17	6.7	4.1	218	299	30	19	378	10	8.6	11
3	15	17	6.6	4.0	161	752	31	17	324	10	7.8	8.8
4	15	20	6.3	4.0	82	335	47	18	2560	12	7.7	8.1
5	22	16	6.1	4.2	62	170	60	42	3140	25	6.1	7.6
6	77	20	6.1	4.3	54	108	57	36	3660	22	5.0	7.6
7	66	40	6.1	4.8	50	78	46	34	4240	21	4.7	8.0
8	33	63	6.1	6.1	72	63	38	51	801	16	5.2	8.7
9	22	52	6.0	6.4	2160	55	33	43	232	13	4.1	10
10	17	40	6.0	6.2	2280	48	1380	29	140	10	4.4	11
11	14	40	6.0	6.3	346	e44	5210	24	95	7.6	3.9	16
12	13	33	5.6	7.8	175	43	4030	26	70	8.4	3.9	10
13	12	25	5.7	17	123	48	550	22	54	14	5.4	8.8
14	11	20	6.5	192	192	46	253	22	43	15	5.0	8.3
15	548	17	6.7	485	597	98	412	21	243	11	4.9	8.1
16	525	14	6.4	238	277	1730	501	18	356	9.1	7.3	7.6
17	136	12	6.2	104	136	1210	185	17	103	8.8	7.7	7.9
18	61	11	5.9	69	76	354	113	760	55	7.8	10	8.9
19	39	10	5.7	44	61	182	82	1120	37	7.5	7.5	75
20	28	8.9	5.6	36	54	124	69	210	32	28	5.9	91
21	21	8.3	5.1	29	48	91	61	643	33	18	5.2	30
22	18	7.7	5.0	24	43	77	55	448	41	11	21	17
23	16	7.2	5.1	21	38	79	50	116	31	8.4	162	12
24	15	7.6	4.9	20	2890	69	63	61	24	7.2	1470	9.1
25	16	7.5	4.7	19	5370	55	48	43	20	7.9	564	8.9
26	16	7.1	4.6	18	2080	45	40	35	17	11	119	8.0
27	14	7.3	4.4	17	340	39	34	31	15	14	52	7.0
28	12	7.4	4.2	21	231	35	31	27	13	10	30	6.7
29	11	6.9	4.4	3720	---	35	27	24	12	9.4	21	6.7
30	11	6.7	4.4	4990	---	34	24	22	11	14	16	6.5
31	11	---	4.4	1720	---	33	---	411	---	12	13	---
MEAN	59.5	18.7	5.62	382	661	212	453	142	574	12.6	83.8	14.9
MAX	548	63	6.7	4990	5370	1730	5210	1120	4240	28	1470	91
MIN	11	6.7	4.2	4.0	38	33	24	17	11	7.2	3.9	6.5
IN.	.29	.09	.03	1.89	2.96	1.05	2.17	.70	2.75	.06	.41	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	124	128	128	140	228	304	332	300	246	204	57.1	130
MAX	1646	1378	1447	792	1031	1715	1734	2238	1307	2415	544	1830
(WY)	1942	1986	1983	1974	1985	1973	1944	1943	1942	1969	1982	1993
MIN	.006	.36	.58	1.18	1.91	2.74	3.42	5.92	3.28	1.31	.46	.22
(WY)	1954	1954	1964	1963	1954	1954	2000	1980	1988	1944	1964	1960

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL MEAN	58.7		214		193	
HIGHEST ANNUAL MEAN					509	1969
LOWEST ANNUAL MEAN					10.7	1954
HIGHEST DAILY MEAN	4750	Aug 25	5370	Feb 25	24000	Oct 13 1969
LOWEST DAILY MEAN	1.0	May 17	3.9	Aug 11,12	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	1.5	May 2	4.2	Dec 31	.00	Many Years
MAXIMUM PEAK FLOW	---		6210	Jan 29	31800	Sep 23 1993
MAXIMUM PEAK STAGE	---		17.69	Jan 29	28.66	Sep 23 1993
INSTANTANEOUS LOW FLOW	---		3.1	Jan 2	.00	Many Years
ANNUAL RUNOFF (INCHES)	3.43		12.48		11.26	
10 PERCENT EXCEEDS	51		355		319	
50 PERCENT EXCEEDS	8.1		21		16	
90 PERCENT EXCEEDS	2.3		6.0		1.6	

e Estimated

05506100 LONG BRANCH NEAR SANTA FE, MO

LOCATION.--Lat 39°21'21", long 91°50'03", in NE $^1/_4$ SE $^1/_4$ SE $^1/_4$ sec. 19, T.53 N., R.8 W., Monroe County, Hydrologic Unit 07110006, on left bank on west side of concrete ford on County Road 26, 12.7 mi northeast of Santa Fe.

DRAINAGE AREA.--180 mi^2.

PERIOD OF RECORD.--December 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 625.00 ft above sea level.

REMARKS.--Records fair except discharges below 10 ft^3/s, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	5.0	2.1	.67	466	59	14	11	547	2.9	1.5	2.9
2	.29	5.5	2.1	.82	115	99	13	8.3	246	2.3	1.7	2.2
3	.47	4.1	1.4	.67	108	341	16	6.3	159	1.9	1.6	1.4
4	.75	3.5	1.4	.66	50	224	34	316	2770	12	1.4	.97
5	3.6	2.8	1.6	.71	36	95	31	127	2080	60	1.2	1.1
6	16	3.9	1.6	.91	32	67	28	56	3860	28	.99	1.1
7	36	6.6	1.4	1.1	30	54	27	64	3070	17	.94	.99
8	30	13	1.3	1.3	37	44	22	64	1240	13	.76	.79
9	19	36	1.3	1.5	1950	38	18	39	134	8.5	.57	1.1
10	11	36	1.3	1.6	1370	34	1060	24	56	5.3	.39	.84
11	4.9	27	1.6	1.9	607	31	3440	22	37	3.5	.29	.67
12	2.7	45	1.0	3.0	131	31	2110	17	27	3.8	.26	.48
13	1.5	30	1.1	5.4	68	30	737	14	20	3.5	.23	.55
14	1.4	20	1.2	149	83	27	111	13	16	2.9	.22	.46
15	83	15	1.5	268	180	62	356	10	201	2.6	.20	.46
16	99	11	1.9	205	147	1110	308	7.4	88	3.3	.33	.30
17	108	7.6	2.1	69	76	838	133	7.1	41	2.5	.25	.32
18	50	6.3	1.7	36	56	326	59	380	27	2.1	.23	.59
19	30	5.7	1.6	25	40	102	42	440	20	2.3	.13	.89
20	23	4.8	1.6	12	30	60	34	111	17	81	.08	.87
21	15	3.9	1.3	8.5	23	44	30	229	26	26	.03	1.2
22	10	3.3	1.2	4.7	21	37	25	141	55	7.5	.00	1.2
23	6.0	3.2	1.0	2.9	19	35	22	62	33	3.3	27	1.9
24	4.5	3.2	.94	2.1	2460	32	19	36	27	1.8	318	1.0
25	3.8	3.2	.70	1.4	3540	27	17	23	17	2.1	179	.94
26	2.3	3.2	.85	1.3	1560	22	16	17	12	2.3	76	.89
27	1.6	3.2	.90	.91	290	19	15	13	8.9	2.1	37	.78
28	1.6	2.9	.94	3.7	85	18	15	9.6	6.4	1.5	20	.78
29	1.9	2.7	.90	3520	---	17	14	7.6	4.9	1.3	12	.72
30	2.1	2.2	.67	4410	---	16	13	8.0	4.1	2.2	6.6	.67
31	3.1	---	.67	1960	---	15	---	1160	---	1.9	4.3	---
MEAN	18.5	10.7	1.32	345	486	128	293	111	495	10.0	22.4	.97
MAX	108	45	2.1	4410	3540	1110	3440	1160	3860	81	318	2.9
MIN	.29	2.2	.67	.66	19	15	13	6.3	4.1	1.3	.00	.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)

MEAN	49.1	48.8	11.9	192	354	159	235	319	219	176	73.9	9.69
MAX	266	246	32.0	534	1053	487	636	1062	514	943	254	38.6
(WY)	1999	1999	1999	1999	1997	1998	1999	1995	1998	1998	2000	1998
MIN	.014	.002	.61	.11	17.6	13.1	1.25	16.4	23.2	5.22	.035	.000
(WY)	2000	2000	2000	2000	1996	2000	2000	2000	1996	1997	1999	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1994 - 2001	
ANNUAL MEAN	38.3		157		145	
HIGHEST ANNUAL MEAN					237	1999
LOWEST ANNUAL MEAN					35.8	2000
HIGHEST DAILY MEAN	3040	Aug 24	4410	Jan 30	12400	Feb 21 1997
LOWEST DAILY MEAN	.00	Jan 27,28,Feb 2	.00	Aug 22	.00	Aug,Sep,Oct,Nov 1999, Aug 22 2001
ANNUAL SEVEN-DAY MINIMUM	.02	Jan 31	.15	Aug 16	.00	Aug 28,Oct 12, Nov 25 1999
MAXIMUM PEAK FLOW	---		6040	Jan 29	16700	Jul 4 1998
MAXIMUM PEAK STAGE	---		13.04	Jan 29	22.43	Jul 4 1998
INSTANTANEOUS LOW FLOW	---		.00	Aug 22	.00	Aug,Sep,Oct,Nov 1999, Aug 22 2001
10 PERCENT EXCEEDS	36		213		267	
50 PERCENT EXCEEDS	1.8		11		12	
90 PERCENT EXCEEDS	.13		.77		.24	

05506350 MIDDLE FORK SALT RIVER NEAR HOLLIDAY, MO

LOCATION.--Lat 39°31'32", long 92°07'40", in NE $^1/_4$ SW $^1/_4$ NW $^1/_4$, sec. 27, T. 55 N., R. 11 W., Monroe County, Hydrologic Unit 07110006, on right bank, downstream side of Highway A bridge, approximately 2.1 mi north of Holliday.

DRAINAGE AREA.--313 mi^2.

period of record.--Dec. 17, 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 651.00 ft above sea level.

REMARKS.--Records fair except for the period Oct. 23 to Nov. 7 and estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	11	7.5	3.6	3210	160	64	35	1470	e15	22	40
2	4.4	14	7.9	3.2	890	145	61	32	1610	e14	17	25
3	3.2	11	6.3	2.9	233	204	67	29	756	e14	15	15
4	2.7	11	6.3	2.7	188	231	122	1190	2370	91	13	11
5	16	7.9	6.4	3.0	132	187	120	1190	3360	113	11	7.7
6	35	8.1	5.9	3.4	123	130	97	265	5220	64	9.2	6.1
7	37	79	5.9	4.2	159	100	82	328	5480	35	13	4.8
8	28	118	5.8	4.6	579	86	71	306	4710	25	17	4.0
9	20	305	5.8	4.7	3770	77	63	127	2400	20	12	95
10	15	825	5.8	4.3	3820	70	122	80	219	16	9.1	237
11	8.9	457	5.7	4.7	3260	66	869	67	117	13	7.5	55
12	5.4	147	5.5	7.0	1790	68	841	79	83	14	6.4	27
13	4.0	76	5.4	24	275	69	293	65	62	14	7.3	16
14	4.8	52	6.0	359	215	67	138	157	53	12	15	9.7
15	66	39	5.3	738	240	742	222	212	62	12	11	7.1
16	19	32	5.9	619	211	3320	205	92	53	14	10	6.2
17	63	25	5.9	267	132	2620	120	63	138	11	7.9	11
18	32	19	5.3	141	105	1870	89	52	70	8.8	6.5	16
19	20	17	5.0	109	99	616	74	91	42	7.8	5.6	150
20	13	14	4.9	88	82	269	66	70	33	625	4.9	115
21	8.3	12	4.9	81	73	171	112	56	262	174	4.7	51
22	6.5	10	4.7	71	67	132	1550	96	409	74	4.5	29
23	7.3	9.3	4.2	70	62	117	1430	81	137	37	6.6	19
24	7.1	9.3	4.2	68	1830	107	209	46	68	23	12	14
25	7.6	10	3.6	64	4120	92	114	35	44	70	25	13
26	13	11	3.3	63	3770	79	84	29	33	193	41	20
27	13	10	3.7	61	2100	70	68	28	25	446	24	18
28	10	9.5	3.7	78	279	66	57	27	20	156	14	15
29	15	8.1	3.8	2690	---	66	48	25	e17	99	11	11
30	11	7.7	4.0	4460	---	66	41	24	e16	51	8.3	8.3
31	9.0	---	3.9	4200	---	66	---	918	---	32	74	---
MEAN	16.5	78.8	5.24	461	1136	391	250	190	978	80.4	14.4	35.2
MAX	66	825	7.9	4460	4120	3320	1550	1190	5480	625	74	237
MIN	2.7	7.7	3.3	2.7	62	66	41	24	16	7.8	4.5	4.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	11.5	40.0	5.70	358	521	305	342	302	439	125	39.0	20.4
MAX	16.5	78.8	6.16	611	1136	490	771	693	978	237	99.9	35.2
(WY)	2001	2001	2000	1999	2001	1999	1999	1999	2001	1999	2000	2001
MIN	6.42	1.12	5.24	2.12	29.7	35.0	3.89	21.9	72.3	58.7	2.64	5.86
(WY)	2000	2000	2001	2000	2000	2000	2000	2000	1999	2000	1999	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL MEAN	51.7		296		170	
HIGHEST ANNUAL MEAN					296	2001
LOWEST ANNUAL MEAN					44.5	2000
HIGHEST DAILY MEAN	1690	Jun 26	5480	Jun 7	5480	Jun 7 2001
LOWEST DAILY MEAN	.76	May 25	2.7	Oct 4,Jan 4	.22	Oct 19 1999
ANNUAL SEVEN-DAY MINIMUM	1.1	Feb 3	3.2	Dec 31	.46	Oct 17 1999
MAXIMUM PEAK FLOW	---		5690	Jun 7	5690	Jun 7 2001
MAXIMUM PEAK STAGE	---		20.20	Jun 7	20.20	Jun 7 2001
INSTANTANEOUS LOW FLOW	---		2.5	Oct 4,14,Jan 4	.18	Oct 18 1999
10 PERCENT EXCEEDS	103		621		356	
50 PERCENT EXCEEDS	6.4		41		17	
90 PERCENT EXCEEDS	1.9		5.4		1.7	

e Estimated

05506800 ELK FORK SALT RIVER NEAR MADISON, MO

LOCATION.--Lat 39°26'05", long 92°10'04", in SE $^1/_4$ NE $^1/_4$ SW $^1/_4$ sec.29, T.54 N., R.11 W., Monroe County, Hydrologic Unit 07110006, on downstream side of highway, 25 ft to the left of bridge on State Highway AA, 500 ft downstream from Allen Creek, 3.5 mi southeast of Madison, and at mile 29.8.

DRAINAGE AREA.--200 mi^2.

PERIOD OF RECORD.--October 1968 to current year.

REVISED RECORDS.--WDR MO 1973: 1970(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 690.16 ft above sea level (Missouri State Highway and Transportation Commission bench mark).

REMARKS.--Records fair except discharges below 10 ft^3/s, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 9, 1967, reached a stage of 31.25 ft, from floodmark, discharge 31,200 ft^3/s, by contracted-opening method. Flood in 1871 reached nearly the same stage, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	23	7.1	4.7	279	109	31	14	548	9.3	6.9	53
2	41	21	7.2	4.5	224	153	29	13	270	7.9	5.6	15
3	49	29	7.4	4.8	172	452	36	12	192	7.8	5.0	8.8
4	54	33	7.9	4.3	78	233	66	36	2680	73	4.7	6.7
5	165	24	8.4	4.3	70	125	68	64	2540	49	4.0	5.6
6	268	45	8.3	4.6	94	80	55	33	4390	27	3.7	4.5
7	95	330	8.7	4.9	100	62	43	272	5120	15	3.4	3.8
8	40	147	8.6	5.5	379	53	34	143	339	10	3.3	3.8
9	25	170	8.4	5.9	3760	46	29	50	157	8.7	3.3	24
10	18	256	8.4	5.5	2570	41	1780	26	98	8.1	3.1	240
11	15	111	8.5	6.4	268	37	3220	27	68	7.0	3.2	32
12	13	52	7.6	11	155	40	1820	43	50	8.6	3.0	15
13	11	32	8.1	59	109	48	274	31	37	12	2.9	10
14	15	23	7.8	688	163	46	137	56	102	17	2.9	7.8
15	89	17	7.5	596	352	558	812	55	243	11	3.5	6.4
16	198	15	7.5	195	174	2920	444	29	99	8.4	5.0	5.4
17	128	13	7.4	94	85	1180	143	102	46	6.9	5.6	5.4
18	102	11	6.8	57	62	348	88	463	26	6.0	5.8	11
19	46	9.6	6.9	42	54	184	68	215	19	5.9	4.3	100
20	26	8.9	6.6	29	48	122	58	120	20	156	3.3	49
21	19	8.2	6.4	23	42	90	55	392	150	15	3.1	19
22	16	8.2	6.3	18	37	81	54	183	134	6.8	2.6	19
23	13	8.0	5.9	17	34	95	46	64	54	5.4	4.4	14
24	13	8.2	6.0	16	2460	78	36	33	30	4.6	98	9.8
25	18	8.8	5.4	14	5190	57	30	24	21	24	235	7.7
26	20	9.4	5.0	13	827	44	25	23	16	16	60	6.9
27	18	8.7	4.8	12	212	38	22	29	13	12	27	5.6
28	19	8.1	5.2	30	141	36	20	23	11	39	13	4.7
29	18	7.7	5.6	e3110	---	37	17	18	19	23	8.8	4.4
30	22	7.3	5.4	6540	---	37	16	16	12	17	7.0	4.2
31	21	---	5.1	1580	---	34	---	845	---	9.7	89	---
MEAN	52.5	48.4	6.97	426	648	241	319	111	583	20.2	20.3	23.4
MAX	268	330	8.7	6540	5190	2920	3220	845	5120	156	235	240
MIN	11	7.3	4.8	4.3	34	34	16	12	11	4.6	2.6	3.8
IN.	.30	.27	.04	2.46	3.37	1.39	1.78	.64	3.26	.12	.12	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2001, BY WATER YEAR (WY)

MEAN	102	131	132	126	213	267	332	261	202	162	49.3	108
MAX	1077	1248	750	533	935	1154	1651	1554	1005	1409	268	1381
(WY)	1987	1986	1983	1974	1985	1973	1973	1995	1969	1981	2000	1993
MIN	.25	1.24	.94	.95	2.07	3.02	4.76	10.0	1.61	1.06	.82	.63
(WY)	1981	1981	1989	1977	1989	1981	2000	1992	1988	1988	1980	1988

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1969 - 2001	
ANNUAL MEAN	54.8		204		173	
HIGHEST ANNUAL MEAN					380	1993
LOWEST ANNUAL MEAN					23.6	1976
HIGHEST DAILY MEAN	3800	Aug 25	6540	Jan 30	24100	Apr 21 1973
LOWEST DAILY MEAN	2.2	May 21	2.6	Aug 22	.00	Aug 4-10 1976
ANNUAL SEVEN-DAY MINIMUM	2.5	May 17	3.1	Aug 8	.00	Aug 4 1976
MAXIMUM PEAK FLOW	---		7480	Jan 30	42300	Apr 21 1973
MAXIMUM PEAK STAGE	---		20.22	Jan 30	33.40	Apr 21 1973
INSTANTANEOUS LOW FLOW	---		2.4	Aug 22	.00	Aug 4-10 1970
ANNUAL RUNOFF (INCHES)	3.73		13.87		11.76	
10 PERCENT EXCEEDS	74		269		278	
50 PERCENT EXCEEDS	7.4		24		15	
90 PERCENT EXCEEDS	3.3		5.2		1.3	

e Estimated

05507600 LICK CREEK AT PERRY, MO

LOCATION.--Lat 39°25'53", long 91°40'34", near center of NW $^1/_4$ SW $^1/_4$ sec.27, T.54 N., R.7 W., Ralls County, Hydrologic Unit 07110007, on right bank and downstream side of State Highway 154 bridge, 0.1 mi west of Perry, and at mile 11.9.

DRAINAGE AREA.--104 mi^2.

PERIOD OF RECORD.--October 1979 to current year. Prior to October 1979 gages were maintained and operated by the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 625.00 ft above sea level. Prior to November 1967, nonrecording gage at same site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 12, 1969, reached a stage of 26.24 ft, as determined by the U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	3.1	.62	.30	82	36	7.4	4.5	71	.63	.13	1.6
2	.00	5.0	.53	.36	64	125	7.0	4.2	44	.55	.08	1.1
3	.00	e5.9	.50	.29	33	298	8.1	3.7	21	.55	.05	.93
4	.00	e8.5	.53	.27	14	85	13	3.6	2410	4.3	.03	.63
5	2.9	e5.2	.54	.29	9.4	43	11	3.6	790	3.3	.02	.60
6	11	e9.1	.52	.33	8.3	29	11	3.6	2880	1.6	.01	.44
7	6.2	25	.51	.39	8.8	23	9.6	4.5	653	.99	.00	.30
8	6.0	65	.44	.42	23	20	8.0	4.2	79	.76	.01	.33
9	3.6	38	e.44	.42	1960	18	7.1	3.6	35	.50	.07	.91
10	2.3	27	e.46	.38	483	17	2020	3.2	20	.39	.47	1.0
11	1.2	39	e.60	6.4	83	16	4090	3.3	14	.22	.17	.59
12	.54	24	e.55	5.6	42	15	716	3.1	11	.64	.06	.33
13	.21	12	.76	7.5	29	15	84	3.0	7.2	.50	.02	.25
14	.23	7.7	.99	155	118	14	36	2.9	5.7	.28	.01	.17
15	34	4.9	1.0	178	244	78	70	2.5	8.0	.18	.02	.12
16	103	4.2	1.2	74	93	1600	42	2.2	7.4	.12	.02	.10
17	36	3.7	.99	38	44	489	21	2.0	6.9	.09	.01	.14
18	15	2.9	.76	30	27	88	14	49	4.4	.07	.01	.61
19	6.9	2.9	.63	12	12	38	12	182	3.1	.06	.01	101
20	4.0	2.7	.50	7.7	9.7	23	11	52	2.6	.40	.00	45
21	2.5	2.1	.52	4.2	7.5	18	10	246	4.0	.32	.00	15
22	2.1	1.7	.46	3.1	6.5	15	9.2	77	3.2	.13	.00	7.1
23	1.1	1.5	.40	2.4	5.9	15	14	23	2.6	.18	79	5.1
24	1.1	1.0	.39	2.1	3030	13	15	14	2.1	.24	594	3.4
25	.34	.95	.33	1.7	2840	11	10	11	1.8	.76	252	1.8
26	.24	1.1	.30	1.7	203	9.1	8.5	9.3	1.4	.78	43	1.3
27	.17	1.0	.30	1.6	77	8.2	7.1	7.7	1.2	.76	16	.91
28	.99	.59	.30	2.7	49	7.8	5.7	6.4	1.0	.70	8.3	.70
29	2.5	.61	.33	3020	---	7.9	4.7	5.4	.92	.53	4.9	.56
30	1.8	.64	.32	2100	---	7.5	4.3	5.5	.75	.36	3.1	.40
31	1.9	---	.29	225	---	7.6	---	84	---	.21	2.2	---
MEAN	7.99	10.2	.55	190	343	103	243	26.8	236	.68	32.4	6.41
MAX	103	65	1.2	3020	3030	1600	4090	246	2880	4.3	594	101
MIN	.00	.59	.29	.27	5.9	7.5	4.3	2.0	.75	.06	.00	.10
IN.	.09	.11	.01	2.10	3.44	1.14	2.61	.30	2.54	.01	.36	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2001, BY WATER YEAR (WY)

MEAN	14.3	82.5	70.7	50.8	120	89.2	112	116	72.1	85.6	29.4	43.5
MAX	95.9	652	442	190	441	340	541	473	300	482	143	748
(WY)	1987	1986	1983	2001	1997	1984	1994	1995	1998	1981	1982	1993
MIN	.000	.001	.047	.003	1.67	.41	2.15	1.27	.035	.031	.000	.000
(WY)	1989	2000	1980	1980	1981	1981	2000	1988	1988	1994	1994	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1980 - 2001	
ANNUAL MEAN	22.3		97.7		73.4	
HIGHEST ANNUAL MEAN					188	1993
LOWEST ANNUAL MEAN					15.1	1980
HIGHEST DAILY MEAN	1680	Jun 26	4090	Apr 11	7880	Sep 23 1993
LOWEST DAILY MEAN	.00	Sep 19-24,28-Oct 4	.00	Oct 1-4, Aug 7,20-22	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 28	.01	Aug 16	.00	Many Years
MAXIMUM PEAK FLOW	---		5710	Apr 11	11800	May 7 1996
MAXIMUM PEAK STAGE	---		16.87	Apr 11	22.25	May 7 1996
INSTANTANEOUS LOW FLOW	---		.00	Oct 1-5, Aug 7,20-22	.00	Many Years
ANNUAL RUNOFF (INCHES)	2.91		12.76		9.59	
10 PERCENT EXCEEDS	29		80		88	
50 PERCENT EXCEEDS	1.2		3.6		3.7	
90 PERCENT EXCEEDS	.11		.18		.03	

e Estimated

05507700 MARK TWAIN LAKE NEAR CENTER, MO

LOCATION.--Lat 39°31'29", long 91°38'37", sec.26, T.55 N., R.7 W., Ralls County, Hydrologic Unit 07110007, inside dam structure at mile 63.0 on Salt River.

DRAINAGE AREA.--2,318 mi^2.

PERIOD OF RECORD.--1984 to current year. 1984 to Sept. 30, 1991, available in files at the U.S. Army Corps of Engineers.

GAGE.--Water stage recorder. Datum of gage is sea level.

COOPERATION.--Records furnished by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,360,000 ac-ft, May 28-30, 1995, elevation, 636.22 ft, May 29; minimum, 386,000 ac-ft, Oct. 10, 1984, elevation, 596.60 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,000,000 ac-ft, June 10, 11, elevation, 625.14 ft, June 11; minimum, 404,000 ac-ft, Jan. 10, elevation, 597.57 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	600.07	599.86	599.87	598.40	609.72	613.64	605.77	609.43	611.64	623.03	610.45	604.45
2	599.94	599.83	599.90	598.16	609.80	613.51	605.79	609.20	612.31	622.88	610.04	604.48
3	599.93	599.82	599.91	597.80	609.59	612.82	605.81	608.96	612.72	622.75	609.67	604.49
4	599.86	599.81	599.91	597.81	609.33	612.19	605.89	608.85	613.52	622.56	609.26	604.48
5	599.89	599.73	599.79	597.83	608.97	611.46	605.97	609.17	616.14	622.51	609.04	604.48
6	599.93	599.72	599.78	597.82	608.64	610.63	606.05	609.29	618.76	622.38	608.77	604.37
7	599.83	599.62	599.77	597.84	608.28	609.72	606.30	609.30	621.80	622.25	608.45	604.37
8	599.84	599.50	599.71	597.84	608.12	608.90	606.40	609.26	623.83	622.05	608.12	604.08
9	599.78	599.58	599.65	597.66	608.82	608.05	606.45	609.21	624.81	621.85	607.70	604.08
10	599.79	599.75	599.63	597.57	611.53	607.29	606.41	609.13	625.09	621.52	607.54	604.13
11	599.78	600.01	599.64	597.59	612.97	606.46	608.12	609.17	625.14	621.02	607.54	604.19
12	599.79	600.14	599.42	597.61	613.79	605.79	610.69	609.12	624.87	620.43	607.35	604.21
13	599.79	600.19	599.31	597.58	613.24	605.81	611.33	609.14	624.72	619.79	607.22	604.22
14	599.80	600.22	599.38	597.63	612.53	605.78	611.39	609.20	624.43	619.06	607.08	604.18
15	599.87	600.11	599.35	597.97	611.86	605.82	611.43	609.23	624.55	618.31	606.62	603.93
16	599.99	600.21	599.39	598.46	611.22	606.87	611.59	609.25	624.38	617.56	606.34	603.93
17	600.06	600.14	599.31	598.79	610.45	609.03	611.46	609.25	624.14	616.79	605.92	603.93
18	600.13	600.07	599.03	598.96	609.55	610.30	611.05	609.36	624.17	616.07	605.74	603.61
19	600.17	600.10	598.98	599.08	608.61	610.65	610.62	609.74	624.10	615.78	605.64	603.69
20	600.19	600.12	598.91	599.14	607.61	610.52	610.17	609.92	624.01	615.49	605.36	603.40
21	600.21	600.03	598.93	599.13	606.90	610.18	610.21	610.14	624.01	615.19	605.03	603.12
22	600.22	599.98	598.46	599.13	606.38	609.79	610.29	610.25	623.88	614.85	604.67	602.88
23	600.24	599.96	598.42	599.17	605.77	609.10	610.63	610.35	623.88	614.51	604.63	602.83
24	600.25	599.96	598.43	599.20	605.51	608.21	610.69	610.36	623.74	613.97	604.78	602.83
25	600.23	599.98	598.43	599.20	609.45	607.35	610.54	610.32	623.72	613.47	605.37	602.64
26	600.23	599.94	598.43	599.18	611.95	606.53	610.40	610.30	623.63	613.03	605.51	602.65
27	600.16	599.94	598.43	599.20	613.39	606.09	610.23	610.29	623.52	612.68	605.55	602.65
28	600.15	599.91	598.44	599.24	613.65	605.84	610.08	610.29	623.42	612.30	605.39	602.45
29	600.07	599.95	598.46	599.93	---	605.80	609.82	610.30	623.32	611.87	605.07	602.44
30	600.05	599.90	598.43	604.98	---	605.75	609.64	610.28	623.21	611.48	604.67	602.45
31	599.85	---	598.43	608.60	---	605.73	---	610.66	---	610.88	604.67	---
MEAN	600.00	599.94	599.16	598.98	609.92	608.57	609.04	609.64	622.05	617.69	606.75	603.65
MAX	600.25	600.22	599.91	608.60	613.79	613.64	611.59	610.66	625.14	623.03	610.45	604.49
MIN	599.78	599.50	598.42	597.57	605.51	605.73	605.77	608.85	611.64	610.88	604.63	602.44

05507700 MARK TWAIN LAKE NEAR CENTER, MO--Continued

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	440000	437000	438000	416000	618000	705000	540000	612000	658000	943000	633000	516000
2	439000	437000	438000	413000	620000	702000	541000	607000	674000	939000	625000	517000
3	438000	437000	438000	408000	615000	686000	541000	603000	683000	935000	617000	517000
4	437000	437000	438000	408000	610000	671000	543000	600000	702000	929000	608000	517000
5	438000	436000	436000	408000	603000	655000	544000	607000	764000	928000	604000	517000
6	438000	435000	436000	408000	596000	637000	546000	609000	826000	924000	598000	515000
7	437000	434000	436000	408000	589000	618000	550000	609000	907000	920000	592000	515000
8	437000	432000	435000	408000	585000	601000	552000	608000	966000	914000	585000	509000
9	436000	433000	434000	406000	600000	584000	553000	607000	995000	909000	577000	509000
10	436000	436000	434000	404000	656000	569000	552000	606000	1000000	899000	574000	510000
11	436000	440000	434000	405000	689000	553000	585000	607000	1000000	885000	574000	511000
12	436000	442000	431000	405000	709000	541000	638000	606000	996000	867000	570000	512000
13	436000	443000	429000	405000	696000	541000	652000	606000	992000	850000	568000	512000
14	437000	443000	430000	405000	679000	541000	653000	607000	983000	833000	565000	511000
15	438000	441000	430000	410000	663000	541000	654000	608000	987000	815000	556000	507000
16	439000	443000	431000	417000	650000	561000	657000	608000	982000	797000	551000	507000
17	440000	442000	429000	422000	633000	604000	655000	608000	975000	779000	543000	507000
18	442000	441000	425000	424000	614000	630000	646000	610000	976000	762000	540000	501000
19	442000	441000	425000	426000	595000	637000	637000	618000	974000	756000	538000	503000
20	443000	441000	424000	427000	575000	635000	627000	622000	971000	749000	533000	498000
21	443000	440000	424000	427000	562000	628000	628000	627000	971000	742000	527000	493000
22	443000	439000	417000	427000	552000	619000	630000	629000	968000	734000	520000	489000
23	444000	439000	417000	427000	540000	605000	637000	631000	968000	726000	520000	488000
24	444000	439000	417000	428000	536000	587000	638000	631000	964000	713000	522000	488000
25	443000	439000	417000	428000	612000	570000	635000	630000	963000	701000	533000	485000
26	443000	439000	417000	428000	665000	555000	632000	630000	960000	691000	536000	485000
27	442000	439000	417000	428000	699000	547000	629000	630000	957000	683000	536000	485000
28	442000	438000	417000	428000	705000	542000	626000	630000	954000	674000	534000	481000
29	441000	439000	417000	438000	---	541000	620000	630000	951000	663000	528000	481000
30	440000	438000	417000	526000	---	540000	616000	630000	948000	655000	520000	481000
31	437000	---	417000	595000	---	540000	---	637000	---	642000	520000	---
MEAN	440000	439000	427000	426000	624000	596000	605000	616000	920000	805000	560000	502000
MAX	444000	443000	438000	595000	709000	705000	657000	637000	1000000	943000	633000	517000
MIN	436000	432000	417000	404000	536000	540000	540000	600000	658000	642000	520000	481000

05507800 SALT RIVER NEAR CENTER, MO

LOCATION.--Lat 39°34'26", long 91°34'15", near SE corner sec.4, T.55 N., R.6 W., Ralls County, Hydrologic Unit 07110007, on left bank at left downstream end of bridge on Highway A, 0.5 mi downstream from Clarence Cannon Dam, 5.0 mi northwest of Center, and at mile 53.1.

DRAINAGE AREA.--2,350 mi^2, approximately.

PERIOD OF RECORD.--October 1979 to current year. Prior to October 1979, gage height records only by the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 500.00 ft above sea level. Prior to October 1979 nonrecording gage at same site and datum.

REMARKS.--Records fair except for those below 30 ft^3/s, which are poor. U.S. Army Corps of Engineers satellite telemeter at station. Flow regulated by Clarence Cannon Dam, 0.5 mi upstream.

EXTREME OUTSIDE PERIOD OF RECORD.--Maximum gage height, 33.00 ft, Apr. 22, 1973, by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	608	58	59	692	4090	2100	59	2410	61	2280	4410	593
2	319	649	59	2100	3930	6180	59	2260	62	2190	3840	53
3	474	60	55	1210	3480	9130	60	2310	62	1850	3890	51
4	63	386	193	63	4170	9180	59	2000	597	2370	3830	51
5	514	119	428	60	3590	9270	57	2200	793	2070	3170	53
6	1600	514	443	60	3810	9360	57	2300	1210	2460	3110	68
7	97	516	200	60	3530	9510	55	2170	1720	2570	2810	2600
8	488	841	104	60	1960	8420	57	1470	1970	2620	3660	417
9	324	1380	382	1570	1680	7780	1410	1450	1880	3240	2210	61
10	59	81	262	294	3960	7460	181	891	378	5090	240	59
11	59	427	1200	59	2990	7720	71	601	2280	6570	1210	53
12	58	426	1190	56	6560	2930	1740	160	4200	7420	1390	36
13	57	82	113	59	8800	59	1430	50	2430	8480	1320	226
14	58	58	61	59	8990	181	2520	46	2660	8760	3020	606
15	60	315	59	59	9070	534	1750	60	1890	8740	3410	1260
16	244	60	435	278	8980	2290	2150	71	4170	8750	3170	246
17	341	714	1680	59	9060	1970	3500	73	3470	8720	2750	2350
18	62	120	926	58	9370	2350	5190	74	811	6670	990	596
19	61	70	383	59	9510	3820	4990	233	993	4500	1710	1960
20	62	59	58	222	8320	3440	2950	340	1480	4380	2880	3080
21	64	277	1350	59	5990	4830	1790	421	2050	4020	2840	3020
22	64	103	2040	60	6490	6340	2400	413	1550	4160	3510	1170
23	63	58	63	60	6110	8340	1200	58	1140	5570	1390	69
24	64	58	63	62	3980	8720	2190	420	1650	5790	230	1910
25	64	614	62	254	2360	8180	2410	825	1270	4810	188	241
26	344	59	59	70	2610	6180	1660	64	1460	6030	57	45
27	325	58	58	62	1110	4060	2170	61	1310	5350	987	51
28	199	58	60	64	1970	1140	2190	61	1430	5000	3010	517
29	332	58	58	990	---	460	2620	59	1750	5000	3690	833
30	511	58	59	226	---	1040	2670	59	1530	5910	716	53
31	1210	---	59	2800	---	148	---	63	---	5830	1200	---
MEAN	285	278	394	382	5231	4939	1655	764	1609	5071	2285	744
MAX	1600	1380	2040	2800	9510	9510	5190	2410	4200	8760	4410	3080
MIN	57	58	55	56	1110	59	55	46	61	1850	57	36
IN.	.14	.13	.19	.19	2.32	2.42	.79	.37	.76	2.49	1.12	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2001, BY WATER YEAR (WY)

MEAN	1059	1394	1832	1034	1819	2848	2349	2513	2596	2894	1482	1024
MAX	9085	6038	10360	3703	8098	10530	10310	6741	10560	10810	7895	7902
(WY)	1994	1987	1983	1986	1982	1985	1983	1981	1995	1981	1993	1993
MIN	4.62	14.8	31.4	30.5	81.6	87.0	99.4	67.5	126	75.2	13.9	25.3
(WY)	1980	1981	1980	1980	1989	1989	2000	1989	1988	1983	1980	1983

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1980 - 2001	
ANNUAL MEAN	397		1953		1905	
HIGHEST ANNUAL MEAN					3462	1993
LOWEST ANNUAL MEAN					283	1989
HIGHEST DAILY MEAN	3980	Aug 25	9510	Feb 19,Mar 7	65600	Jul 29 1981
LOWEST DAILY MEAN	51	May 30,31	36	Sep 12	.44	Oct 14 1979
ANNUAL SEVEN-DAY MINIMUM	54	Jun 3	58	Apr 2	.65	Oct 11 1979
MAXIMUM PEAK FLOW	---		9790	Mar 7	72800	Jul 29 1981
MAXIMUM PEAK STAGE	---		13.41	Mar 7	32.62	Jul 29 1981
INSTANTANEOUS LOW FLOW	---		14	Sep 12	.44	Oct 14 1979
ANNUAL RUNOFF (INCHES)	2.30		11.28		11.01	
10 PERCENT EXCEEDS	1290		5940		5640	
50 PERCENT EXCEEDS	67		990		448	
90 PERCENT EXCEEDS	58		59		44	

05508000 SALT RIVER NEAR NEW LONDON, MO

LOCATION.--Lat 39°36'44", long 91°24'30", in NE $^1/_4$ NW $^1/_4$ sec.36, T.56 N., R.5 W., Ralls County, Hydrologic Unit 07110007, on left bank near downstream end of bridge on north bound side of dual U.S. Highway 61, 9.9 mi downstream from Clarence Cannon Dam, 2.0 mi north of New London, 8.0 mi upstream from Spencer Creek, and at mile 35.5.

DRAINAGE AREA.--2,480 mi^2, approximately.

PERIOD OF RECORD.--February 1922 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 477.03 ft above sea level. Prior to Apr. 7, 1931, nonrecording gage 400 ft upstream at datum 0.03 ft higher; Apr. 7, 1931 to Jan. 17, 1935, nonrecording gage at site 180 ft upstream at datum 0.04 ft lower; Jan. 17, 1935 to April 1985, water-stage recorder 400 ft upstream same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station. Flow mostly regulated by Clarence Cannon Dam, 9.9 mi upstream, since September 1979. Five percent of the drainage area, 130 mi^2, is natural drainage not regulated.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 107,000 ft^3/s, Apr. 22, 1973; gage height, 31.8 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 14, 1858, reached a stage of 27.6 ft, present site and datum, based on comparison of June 1928 flood crest at stone marker, 1.0 mi downstream of gage.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	267	67	e596	4110	1930	124	2380	248	2020	4810	1560
2	790	460	66	e2010	3630	5020	104	2200	167	2100	3790	134
3	148	229	62	1270	3520	9560	103	2280	119	1890	3900	63
4	374	67	59	265	4140	9580	104	1980	1540	2140	3960	55
5	380	398	423	83	3210	9640	99	2180	1280	2010	3470	49
6	1030	91	362	75	4150	9770	98	2250	3510	2280	3090	53
7	693	497	273	71	3560	9870	93	2160	1710	2390	2710	968
8	80	637	248	68	2210	8770	87	1580	1740	2510	3650	1960
9	683	1290	358	881	3000	8230	210	1660	2800	2830	3120	111
10	87	675	223	906	3430	7520	1410	1370	348	4430	1330	76
11	63	81	e1120	168	3080	7950	610	470	1280	6520	e1020	61
12	61	454	e1110	78	5900	4800	1250	491	4100	7530	e1250	56
13	60	362	e748	72	9000	469	1700	148	2440	8370	1110	77
14	61	77	110	97	9300	119	2440	68	3530	9060	2030	211
15	74	168	88	122	9470	302	1890	55	1130	9020	3460	1260
16	64	192	85	185	9280	2440	1920	69	4030	9050	3110	656
17	457	90	1740	211	9340	2640	3100	85	3900	9050	3180	745
18	94	714	2170	81	9730	2160	5290	117	1050	7610	1420	2240
19	67	87	1370	77	9900	3270	5000	117	1010	4670	1010	374
20	66	82	184	79	9090	3310	4160	385	1140	4380	2620	2870
21	67	66	91	238	6250	4910	1140	405	1880	4080	2870	3590
22	74	300	3530	77	6320	6310	2340	562	1920	4070	3400	1970
23	74	84	247	74	5910	8040	1460	229	1130	4980	3560	665
24	70	68	106	72	7360	9030	1960	77	1480	5800	350	393
25	69	361	94	71	2400	8790	2410	778	1330	5500	367	1780
26	70	307	98	269	3950	6620	1710	450	1350	5510	127	89
27	541	75	89	81	1140	4350	2190	89	1350	5800	79	58
28	91	69	78	78	2000	2110	1960	76	1360	5020	2460	65
29	265	66	91	3700	---	668	2560	71	1470	5030	3090	1120
30	239	65	82	1590	---	1030	2540	73	1620	5290	2570	200
31	1380	---	94	1620	---	548	---	274	---	5880	232	---
MEAN	269	279	499	492	5514	5153	1669	811	1732	5059	2360	784
MAX	1380	1290	3530	3700	9900	9870	5290	2380	4100	9060	4810	3590
MIN	60	65	59	68	1140	119	87	55	119	1890	79	49
IN.	.12	.13	.23	.23	2.32	2.40	.75	.38	.78	2.35	1.10	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2001, BY WATER YEAR (WY)

MEAN	1087	1516	1956	1121	1969	3041	2506	2661	2674	3001	1559	1077
MAX	9165	6406	11100	4001	8787	10810	10660	6651	10950	11900	7961	8300
(WY)	1994	1986	1983	1985	1982	1985	1983	1981	1995	1981	1993	1993
MIN	16.9	18.4	48.6	37.1	84.9	90.2	114	93.4	128	88.4	42.8	28.5
(WY)	1980	1981	1980	1981	1989	1989	2000	1989	1988	1983	1983	1983

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1980 - 2001	
ANNUAL MEAN	416		2033		2015	
HIGHEST ANNUAL MEAN					3577	1993
LOWEST ANNUAL MEAN					307	1989
HIGHEST DAILY MEAN	3660	Aug 25	9900	Feb 19	62100	Jul 30 1981
LOWEST DAILY MEAN	56	May 19	49	Sep 5	9.5	Nov 21 1980
ANNUAL SEVEN-DAY MINIMUM	64	May 16	65	Nov 28	9.6	Nov 20 1980
MAXIMUM PEAK FLOW	---		10200	Mar 7	74200	Jul 29 1981
MAXIMUM PEAK STAGE	---		11.73	Mar 7	31.09	Jul 29 1981
INSTANTANEOUS LOW FLOW	---		28	Sep 13	9.5	Nov 21 1980
ANNUAL RUNOFF (INCHES)	2.28		11.13		11.04	
10 PERCENT EXCEEDS	1260		5830		5870	
50 PERCENT EXCEEDS	94		1110		532	
90 PERCENT EXCEEDS	67		71		57	

e Estimated

05508805 SPENCER CREEK BELOW PLUM CREEK NEAR FRANKFORD, MO

LOCATION.--Lat 39°31'13", long 91°20'32", in NW $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec.27, T.55 N., R.4 W., Ralls County, Hydrologic Unit 07110007, on left bank 25 ft downstream from bridge on dual U.S. Highway 61, 0.75 mi downstream from Plum Creek, 2.5 mi northwest of Frankford, and at mile 4.5.

DRAINAGE AREA.--206 mi^2.

PERIOD OF RECORD.--Oct. 1, 1979 to current year. Mar. 27, 1930 to September 1978, fragmentary record.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 485.00 ft above sea level. Mar. 24, 1930, to Sept. 30, 1936, nonrecording gage at site 0.75 mi upstream at datum 3.63 ft higher; Oct. 7, 1961, to July 15, 1974, fragmentary record, at present site, datum unknown; July 26, 1974, to Apr. 15, 1975, from nonrecording gage present site and datum.

REMARKS.--Records fair except for discharges below 5 ft^3/s, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	2.8	4.1	3.2	130	109	36	19	169	9.8	1.8	3.5
2	.78	3.5	3.9	3.1	100	113	33	17	146	8.5	1.6	3.0
3	.78	4.4	3.7	3.0	79	193	32	16	65	7.6	1.3	2.7
4	.73	5.3	3.9	2.8	61	129	35	19	3300	8.4	1.3	2.3
5	2.9	4.8	3.8	3.0	53	96	33	19	899	7.6	1.1	2.0
6	19	6.4	3.3	3.1	49	79	36	19	4040	6.9	.99	1.9
7	8.4	9.7	3.4	3.2	46	71	34	20	720	6.1	.84	1.7
8	5.8	23	3.2	3.2	54	66	29	19	181	5.4	.78	1.4
9	4.9	21	3.2	3.2	2080	61	27	15	120	4.8	.83	2.1
10	3.5	22	3.2	3.0	506	58	1130	12	88	4.1	9.5	2.3
11	2.4	21	4.4	3.1	132	54	4220	12	69	3.6	8.7	2.2
12	2.3	20	3.6	3.5	92	54	927	11	54	3.6	3.7	1.8
13	2.0	15	4.7	3.8	74	52	187	9.5	43	3.8	2.2	1.6
14	1.8	12	4.9	12	108	47	118	10	41	3.7	1.4	1.3
15	2.7	9.7	4.5	52	218	72	103	9.3	265	3.3	1.2	1.2
16	16	8.5	4.4	34	118	1320	87	7.7	127	3.1	1.7	.99
17	22	7.5	4.2	22	73	477	67	6.7	61	2.9	2.0	1.2
18	13	6.5	3.8	17	53	173	56	68	41	2.7	1.9	21
19	8.9	6.1	3.9	19	48	115	49	76	30	4.5	1.4	350
20	6.3	5.5	3.6	14	43	90	45	36	25	10	1.0	123
21	4.7	5.1	3.8	11	38	75	44	103	47	9.2	.82	104
22	3.3	5.1	3.6	9.3	36	65	42	88	50	4.6	.70	59
23	3.6	5.1	3.3	9.0	34	61	44	39	29	3.2	254	38
24	3.6	5.0	3.3	9.6	3980	54	48	24	22	2.6	220	26
25	3.4	6.2	2.9	9.0	3540	49	38	18	19	3.1	84	19
26	3.6	5.3	2.7	8.2	329	44	32	16	17	3.2	57	16
27	3.3	4.6	2.8	8.0	170	42	28	14	14	3.7	27	13
28	3.1	4.4	3.0	12	130	40	25	11	13	3.4	14	11
29	3.0	4.3	3.2	4900	---	40	23	10	12	2.9	8.8	10
30	2.9	4.2	3.2	2320	---	38	20	9.7	11	2.5	6.4	9.3
31	3.0	---	3.2	271	---	36	---	216	---	2.2	5.0	---
MEAN	5.25	8.80	3.64	251	442	128	254	31.3	357	4.87	23.3	27.7
MAX	22	23	4.9	4900	3980	1320	4220	216	4040	10	254	350
MIN	.73	2.8	2.7	2.8	34	36	20	6.7	11	2.2	.70	.99
IN.	.03	.05	.02	1.40	2.23	.72	1.38	.18	1.94	.03	.13	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2001, BY WATER YEAR (WY)

MEAN	44.5	183	168	115	224	209	248	262	132	171	64.8	88.7
MAX	376	1310	985	453	766	738	919	942	451	1788	290	1402
(WY)	1987	1986	1983	1999	1985	1984	1994	1995	1982	1981	1995	1993
MIN	.22	.48	1.67	2.58	3.40	9.23	14.3	15.1	2.23	.84	.96	.32
(WY)	1989	1990	1990	1980	1980	1981	2000	1988	1988	1988	1994	1988

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1980 - 2001	
ANNUAL MEAN	33.7		125		159	
HIGHEST ANNUAL MEAN					355	1993
LOWEST ANNUAL MEAN					33.1	2000
HIGHEST DAILY MEAN	1970	Jun 26	4900	Jan 29	15600	Jul 28 1981
LOWEST DAILY MEAN	.73	Oct 4	.70	Aug 22	.08	Aug 14 1989
ANNUAL SEVEN-DAY MINIMUM	1.3	Sep 28	1.0	Aug 3	.10	Sep 7 1990
MAXIMUM PEAK FLOW	---		9860	Jan 29	20300	Sep 22 1993
MAXIMUM PEAK STAGE	---		14.43	Jan 29	18.54	Sep 22 1993
INSTANTANEOUS LOW FLOW	---		.56	Aug 22	.00	Many Days 1989
ANNUAL RUNOFF (INCHES)	2.23		8.25		10.46	
10 PERCENT EXCEEDS	58		121		227	
50 PERCENT EXCEEDS	6.8		11		23	
90 PERCENT EXCEEDS	2.9		2.2		1.1	

05514500 CUIVRE RIVER NEAR TROY, MO

LOCATION.--Lat 39°00'59", long 90°59'00", in SE $^1/_4$ sec.14, T.49 N., R.1 W., Lincoln County, Hydrologic Unit 07110008, on downstream side of right end of downstream bridge on dual U.S. Highway 61, 1.2 mi downstream from confluence of North and West Forks Cuivre River, and 2.0 mi north of Troy.

DRAINAGE AREA.--903 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1922 to July 1972, May 1979 to current year.

REVISED RECORDS.--WSP 855: 1933(m), 1935(m), 1937(m). WSP 895: 1939. WSP 1005: 1942(m). WSP 1308: 1922-25(m).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 450.27 ft above sea level. Prior to Oct. 1, 1930, nonrecording gage at site 3 mi downstream at datum 4.31 ft lower; Oct. 1, 1930, to July 1939, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records fair. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1895 was 5 to 6 ft lower at Frenchmens Bluff, 3.0 mi downstream, than the October 1941 flood, which is the highest flood since 1888.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	58	42	29	1350	784	152	115	1820	53	22	464
2	24	56	41	27	600	978	144	105	601	53	21	144
3	22	54	40	27	401	1620	145	94	412	51	19	78
4	21	53	39	28	336	1170	158	84	8430	59	19	53
5	1360	52	38	29	243	714	216	81	12100	240	18	39
6	1720	99	37	31	203	501	203	80	9430	121	18	34
7	396	671	37	33	178	396	183	84	8510	78	17	29
8	207	667	36	34	166	335	158	84	2510	59	17	29
9	128	423	36	35	2170	292	140	77	848	50	16	43
10	89	751	36	35	5070	259	794	70	492	44	21	58
11	69	451	39	38	1600	235	12400	65	355	39	19	63
12	56	269	36	43	527	221	9650	60	272	38	18	38
13	48	190	38	49	361	207	2420	57	221	37	17	27
14	46	143	38	698	1500	182	976	57	224	35	17	20
15	1160	115	38	2580	3060	215	758	56	1400	32	17	18
16	1490	98	40	1330	1380	4640	878	54	757	31	18	16
17	638	84	36	575	694	4600	566	51	394	30	16	16
18	269	74	36	293	383	1710	419	1400	226	32	16	31
19	179	67	34	242	288	852	328	2030	159	47	15	527
20	146	61	31	168	236	592	282	1140	127	121	14	606
21	115	55	32	140	197	455	253	895	115	514	14	265
22	97	52	30	127	175	378	229	1440	108	185	14	117
23	88	50	29	105	157	340	203	596	100	89	e13	78
24	80	49	28	89	10300	310	177	217	88	59	698	52
25	73	52	26	81	23000	266	162	137	81	66	2220	37
26	68	52	26	77	6820	230	148	108	76	48	1060	29
27	64	51	27	69	1690	206	136	90	69	37	278	24
28	61	49	27	65	1000	186	127	76	64	34	105	20
29	59	46	29	4270	---	175	120	65	63	31	64	18
30	57	44	29	17500	---	167	113	60	56	27	46	17
31	57	---	29	5270	---	159	---	849	---	24	1620	---
MEAN	288	165	34.2	1101	2289	754	1088	335	1670	76.3	209	99.7
MAX	1720	751	42	17500	23000	4640	12400	2030	12100	514	2220	606
MIN	21	44	26	27	157	159	113	51	56	24	13	16
IN.	.37	.20	.04	1.41	2.64	.96	1.34	.43	2.06	.10	.27	.12

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	399	513	502	541	870	1001	1211	1025	707	559	295	451
MAX	6704	4503	5924	2465	4250	3596	6126	6311	4735	4366	1994	9098
(WY)	1942	1986	1983	1949	1962	1922	1994	1929	1970	1981	1923	1993
MIN	.10	1.30	1.11	1.63	1.80	2.51	25.8	17.1	11.0	.44	.23	.24
(WY)	1965	1954	1964	1954	1954	1954	1954	1934	1936	1934	1936	1964

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	307		662		671	
HIGHEST ANNUAL MEAN					2186	1993
LOWEST ANNUAL MEAN					27.3	1954
HIGHEST DAILY MEAN	10300	Aug 25	23000	Feb 25	76400	Oct 5 1941
LOWEST DAILY MEAN	4.5	Jan 28	13	Aug 23	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	5.2	Jan 24	15	Aug 17	.00	At Times
MAXIMUM PEAK FLOW	---		28400	Feb 25	120000	Oct 5 1941
MAXIMUM PEAK STAGE	---		25.74	Feb 25	33.40	Oct 5 1941
INSTANTANEOUS LOW FLOW	---		13	Aug 20-23	.00	Several Years
ANNUAL RUNOFF (INCHES)	4.63		9.95		10.10	
10 PERCENT EXCEEDS	486		1350		1240	
50 PERCENT EXCEEDS	52		89		90	
90 PERCENT EXCEEDS	7.9		26		5.9	

e Estimated

05514500 CUIVRE RIVER NEAR TROY, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1982 to current year.

REMARKS.--National stream-quality accounting network station October 1986 through September 1994. Ambient Water-Quality Monitoring Network station October 1994 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
28...	1545	ENVIRONMENTAL	48	12.7	99	7.6	403	4.7	189	59.0	10.0	5.44
JAN												
09...	1120	ENVIRONMENTAL	36	16.1	110	7.6	318	.4	--	--	--	--
MAR												
27...	1500	ENVIRONMENTAL	205	15.0	130	7.6	386	9.4	--	--	--	--
MAY												
15...	1430	ENVIRONMENTAL	57	12.5	153	8.0	450	25.2	199	62.5	10.4	4.40
JUL												
24...	0750	ENVIRONMENTAL	62	5.5	74	7.3	240	29.6	--	--	--	--
SEP												
05...	1010	ENVIRONMENTAL	39	6.2	76	7.2	177	25.1	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
28...	11.9	193	195	238	0	16.9	.2	23.7	<10	247	<.041	.51	.671
JAN													
09...	--	183	184	225	0	--	--	--	--	--	<.041	.33	.356
MAR													
27...	--	127	129	157	0	--	--	--	--	--	<.041	.60	1.36
MAY													
15...	12.1	164	167	204	0	15.3	.2	28.5	27	256	<.040	.77	E.023
JUL													
24...	--	87	87	106	0	--	--	--	--	--	<.040	.65	.747
SEP													
05...	--	73	74	90	0	--	--	--	--	--	<.040	.81	.264

05514500 CUIVRE RIVER NEAR TROY, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
28...	<.006	E.035	.028	.095	17	K23	K17	K20	73	132	.7	<8.00	<.11
JAN													
09...	E.005	<.060	<.018	E.034	--	K1	K5	22	--	--	--	--	--
MAR													
27...	.007	<.060	<.018	.086	--	K30	K4	230	--	--	--	--	--
MAY													
15...	<.006	<.060	<.020	.091	22	40	52	100	20	288	.9	<8.00	<.10
JUL													
24...	.026	E.050	.028	.149	--	280	470	440	--	--	--	--	--
SEP													
05...	.132	.137	.030	.207	--	320	300	310	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV							
28...	<4.7	340	.10	<1	209	<.14	3
JAN							
09...	--	--	--	--	--	--	--
MAR							
27...	--	--	--	--	--	--	--
MAY							
15...	<5.0	50	E.07	<1	202	<.01	5
JUL							
24...	--	--	--	--	--	--	--
SEP							
05...	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

05514840 DARDENNE CREEK AT O'FALLON, MO

LOCATION.--Lat 38°44'26", long 90°41'42", NE $^1/_4$ NE $^1/_4$, SE$^1/_4$ sec. 16, R.46 N., R.3 E., St. Charles County, Hydrologic Unit 07110009, attached to downstream side of State Highway K bridge, 4.2 mi south of Interstate 70.

DRAINAGE AREA.--61.0 mi^2.

PERIOD OF RECORD.--Nov. 18, 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records fair. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	4.8	5.3	3.4	37	49	11	9.9	19	5.5	2.9	2.0
2	1.7	5.3	4.8	3.1	24	49	10	8.4	10	4.9	2.6	1.9
3	1.7	4.9	3.9	3.2	19	41	e37	7.3	32	4.7	2.6	1.6
4	1.6	4.8	3.6	3.6	16	35	76	6.7	92	9.6	2.4	1.6
5	61	4.6	3.5	4.7	14	28	45	6.4	51	6.8	2.2	1.6
6	8.3	43	4.4	9.7	13	21	35	6.1	39	4.6	2.0	1.5
7	4.8	15	3.6	11	12	18	30	7.4	27	4.7	1.9	1.9
8	3.1	9.3	4.1	7.9	11	17	23	6.7	16	5.4	28	1.9
9	2.6	68	3.1	5.6	55	17	20	5.4	11	4.4	22	5.9
10	2.4	17	3.3	5.2	62	14	178	4.3	9.1	3.1	15	4.3
11	2.3	10	4.8	5.2	27	13	757	4.2	7.6	2.8	5.5	2.4
12	2.3	8.2	4.3	6.0	20	13	155	3.7	6.6	4.4	4.0	2.2
13	2.3	14	5.0	9.5	20	16	69	3.6	5.2	4.7	3.4	2.0
14	2.4	6.6	5.7	29	35	10	48	3.6	166	3.4	3.0	1.7
15	13	5.1	5.1	27	33	38	95	3.5	1190	2.7	2.7	1.6
16	23	5.5	5.7	16	23	224	69	3.1	95	2.5	3.5	1.8
17	16	7.7	5.3	10	17	101	43	3.8	41	2.4	3.2	2.2
18	5.4	4.3	4.8	8.3	13	53	31	15	24	18	2.3	30
19	4.0	3.7	4.7	7.2	12	37	26	37	16	6.5	1.6	8.2
20	3.7	3.6	4.0	6.3	11	29	23	14	15	116	1.7	3.4
21	3.6	3.4	4.0	5.6	10	24	22	44	15	13	1.7	3.4
22	3.8	5.0	3.5	5.2	14	22	19	8.8	13	6.7	1.6	2.3
23	4.1	3.2	3.5	4.9	19	21	22	7.0	11	6.3	17	2.4
24	5.1	3.2	3.6	4.7	1260	19	19	6.1	9.5	4.5	44	2.3
25	4.8	5.6	3.2	4.4	743	16	15	6.8	7.2	4.1	9.3	2.1
26	4.7	5.1	3.3	4.9	155	14	14	7.2	7.8	3.8	7.5	1.9
27	4.9	5.0	3.6	4.8	85	15	13	6.1	5.8	4.2	4.9	1.8
28	5.3	5.1	3.7	4.5	62	14	11	4.6	5.8	5.5	3.1	2.1
29	5.1	4.0	3.7	178	---	12	11	4.3	6.1	4.2	2.5	1.9
30	4.9	6.6	3.6	203	---	12	10	4.7	5.8	4.7	2.2	1.2
31	4.8	---	3.5	73	---	11	---	66	---	3.9	2.1	---
MEAN	6.93	9.72	4.14	21.8	101	32.4	64.6	10.5	65.3	8.97	6.72	3.37
MAX	61	68	5.7	203	1260	224	757	66	1190	116	44	30
MIN	1.6	3.2	3.1	3.1	10	10	10	3.1	5.2	2.4	1.6	1.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	6.93	9.72	15.4	12.8	80.7	27.6	42.3	67.0	143	16.0	12.3	3.61
MAX	6.93	9.72	26.7	21.8	101	32.4	64.6	123	220	23.1	17.8	3.86
(WY)	2001	2001	2000	2001	2001	2001	2001	2000	2000	2000	2000	2000
MIN	6.93	9.72	4.14	3.84	61.3	22.9	20.1	10.5	65.3	8.97	6.72	3.37
(WY)	2001	2001	2001	2000	2000	2000	2000	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL MEAN	42.8		27.2		27.2	
HIGHEST ANNUAL MEAN					27.2	2001
LOWEST ANNUAL MEAN					27.2	2001
HIGHEST DAILY MEAN	4140	Jun 24	1260	Feb 24	4140	Jun 24 2000
LOWEST DAILY MEAN	.86	Sep 20	1.2	Sep 30	.86	Sep 20 2000
ANNUAL SEVEN-DAY MINIMUM	1.3	Sep 17	1.7	Sep 2	1.3	Sep 17 2000
MAXIMUM PEAK FLOW	---		4020	Jun 15	5770	Jun 24 2000
MAXIMUM PEAK STAGE	---		15.29	Jun 15	19.14	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		1.1	Sep 30	.53	Sep 20 2000
10 PERCENT EXCEEDS	44		43		46	
50 PERCENT EXCEEDS	6.4		5.9		6.8	
90 PERCENT EXCEEDS	3.1		2.3		2.5	

e Estimated

05514860 DARDENNE CREEK AT OLD TOWN ST. PETERS, MO

LOCATION.--Lat 38°48'12", long 90°38'06", SE $^1/_4$ SW $^1/_4$ SW $^1/_4$ sec. 24, R.47 N., R.3 E., St. Charles County, Hydrologic Unit 07110009, on left bank 0.6 mi upstream from State Highway C.

DRAINAGE AREA.--102 mi^2.

PERIOD OF RECORD.--Nov. 18, 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	13	8.4	4.9	60	62	18	e14	38	18	3.9	2.9
2	4.4	18	9.0	e4.8	36	56	17	e14	19	17	3.3	2.3
3	3.8	20	9.7	4.8	29	50	114	e12	77	10	3.1	2.0
4	7.5	17	7.3	5.9	24	43	106	e12	231	34	2.7	1.8
5	302	15	6.4	9.1	22	35	59	e12	80	15	2.9	1.7
6	31	171	6.0	24	20	29	40	e13	83	11	2.9	8.5
7	15	68	6.8	67	19	26	33	e15	44	8.1	2.4	6.6
8	11	20	6.6	41	18	24	27	e13	42	8.2	2.7	2.8
9	8.6	304	6.5	21	124	22	23	e12	49	7.9	56	11
10	7.9	69	5.3	16	105	22	225	e11	41	6.7	35	13
11	7.4	23	10	18	39	19	2250	e9.8	23	5.7	9.4	3.6
12	6.9	17	13	23	28	18	297	e9.2	11	12	5.4	2.3
13	6.6	45	6.0	30	25	19	103	e8.6	9.3	11	4.1	2.1
14	7.0	17	7.0	146	53	21	63	e7.8	65	7.3	3.0	1.8
15	50	12	6.9	63	46	117	162	e7.7	3050	5.6	2.6	1.4
16	68	10	9.8	34	33	676	92	e7.1	193	5.1	4.3	1.2
17	109	11	16	23	24	157	54	e7.7	58	4.1	4.2	e1.2
18	21	11	7.1	20	19	69	39	e38	35	44	3.9	64
19	14	7.7	7.6	16	17	48	33	e83	25	25	2.8	24
20	12	7.3	5.9	16	17	38	29	e54	25	367	2.2	4.2
21	11	7.1	6.3	13	15	32	27	e97	34	34	1.8	4.9
22	12	7.0	4.9	12	17	31	25	e55	25	14	1.6	2.8
23	14	8.7	4.8	11	27	29	32	e30	18	8.9	6.3	1.2
24	13	6.8	5.1	11	2140	27	33	e21	16	22	133	.73
25	17	23	4.2	13	2040	22	23	e14	13	7.7	20	.61
26	12	18	4.6	11	227	20	20	22	12	5.8	11	.94
27	13	9.5	6.3	13	111	20	e17	12	14	5.2	6.7	.60
28	11	8.0	5.9	10	80	22	e16	9.1	97	6.4	4.7	1.2
29	11	7.3	5.8	353	---	20	e15	7.7	37	6.4	3.3	.84
30	12	6.6	7.6	506	---	19	e14	8.9	15	4.9	2.8	.73
31	13	---	5.2	132	---	18	---	291	---	4.4	4.9	---
MEAN	27.0	32.6	7.16	54.0	193	58.4	134	30.0	149	23.9	11.4	5.76
MAX	302	304	16	506	2140	676	2250	291	3050	367	133	64
MIN	3.8	6.6	4.2	4.8	15	18	14	7.1	9.3	4.1	1.6	.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	27.0	32.6	27.2	30.4	155	45.8	82.3	120	287	38.3	28.3	13.4
MAX	27.0	32.6	47.3	54.0	193	58.4	134	210	425	52.6	45.3	21.1
(WY)	2001	2001	2000	2001	2001	2001	2001	2000	2000	2000	2000	2000
MIN	27.0	32.6	7.16	6.85	119	33.2	31.1	30.0	149	23.9	11.4	5.76
(WY)	2001	2001	2001	2000	2000	2000	2000	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL MEAN	83.5		59.2		59.2	
HIGHEST ANNUAL MEAN					59.2	2001
LOWEST ANNUAL MEAN					59.2	2001
HIGHEST DAILY MEAN	4670	Jun 24	3050	Jun 15	4670	Jun 24 2000
LOWEST DAILY MEAN	2.2	Sep 7,8,10	.60	Sep 27	.60	Sep 27 2001
ANNUAL SEVEN-DAY MINIMUM	2.9	Sep 5	.81	Sep 24	.81	Sep 24 2001
MAXIMUM PEAK FLOW	---		4270	Jun 15	6370	Jun 24 2000
MAXIMUM PEAK STAGE	---		18.44	Jun 15	22.14	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.44	Sep 27	.44	Sep 27 2001
10 PERCENT EXCEEDS	84		80		83	
50 PERCENT EXCEEDS	12		14		13	
90 PERCENT EXCEEDS	5.3		3.5		4.6	

e Estimated

384304090441801 BURGERMEISTER SPRING NEAR WELDON SPRING, MO

LOCATION.--Lat 38°43'04", long 90°44'18", in NW $^1/_4$ NW $^1/_4$ sec.30, T.46 N., R.03 E., St. Charles County, Hydrologic Unit 07110009, on right bank, 70 ft downstream of spring orifice, 0.1 mi upstream of August A. Busch Wildlife Area Lake 34 and 2.5 mi west of Weldon Spring.

RECHARGE AREA.--1.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1986 to current year. Record from May 1986 to September 1989 published in U.S. Geological Survey Open-File Report 90-552 and record from October 1989 to September 1995 published in U.S. Geological Survey Open-File Report 95-463.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Elevation of gage is 528 ft above sea level, from topographic map.

REMARKS.--Water-discharge records good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.07	.07	.04	.37	.21	.08	.06	.40	.06	.05	.04
2	.04	.09	.07	.03	.33	.20	.07	.06	.33	.06	.05	.04
3	.04	.08	.07	.03	.22	.19	.32	.06	.27	.06	.06	.04
4	.26	.05	.06	.03	.15	.18	.44	.05	.42	.05	.07	.04
5	.36	.03	.05	.03	.25	.15	.40	.05	.41	.05	.05	.04
6	.26	.10	.05	.03	.41	.10	.38	.05	.40	.06	.05	.04
7	.15	.33	.04	.21	.37	.08	.38	.07	.39	.05	.04	.04
8	.17	.16	.04	.33	.35	.07	.30	.05	.36	.05	.04	.04
9	.22	.25	.04	.19	.38	.06	.21	.05	.28	.05	.11	.06
10	.11	.35	.04	.11	.44	.05	.20	.05	.20	.05	.27	.07
11	.06	.26	.04	.13	.42	.04	.42	.05	.17	.05	.11	.05
12	.05	.16	.04	.13	.37	.04	.42	.05	.15	.05	.08	.07
13	.05	.25	.04	.21	.23	.03	.38	.05	.13	.05	.06	.05
14	.05	.22	.04	.39	.26	.05	.34	.05	.14	.05	.06	.09
15	.04	.21	.03	.38	.31	.17	.40	.05	.52	.05	.06	.08
16	.07	.28	.04	.34	.18	.25	.40	.05	.43	.05	.05	.05
17	.35	.17	.05	.25	.11	.24	.36	.05	.39	.04	.05	.04
18	.21	.12	.05	.16	.08	.22	.27	.05	.38	.05	.05	.05
19	.10	.09	.04	.12	.07	.21	.21	.29	.39	.05	.05	.25
20	.07	.08	.04	.09	.06	.20	.19	.17	.37	.18	.05	.09
21	.06	.07	.04	.09	.04	.19	.18	.34	.39	.33	.04	.05
22	.05	.08	.04	.09	.05	.14	.15	.26	.37	.18	.04	.04
23	.04	.09	.04	.08	.04	.11	.14	.16	.38	.13	.04	.04
24	.04	.09	.04	.07	.33	.09	.12	.11	.30	.11	.19	.04
25	.04	.09	.04	.05	.34	.08	.10	.09	.23	.08	.21	.03
26	.04	.09	.04	.05	.25	.06	.09	.32	.17	.07	.11	.03
27	.04	.09	.04	.04	.23	.06	.08	.17	.11	.06	.08	.03
28	.04	.08	.04	.04	.22	.05	.07	.11	.07	.06	.07	.03
29	.04	.08	.04	.22	---	.07	.06	.09	.06	.06	.05	.03
30	.06	.07	.04	.46	---	.10	.06	.08	.06	.06	.05	.03
31	.07	---	.04	.41	---	.09	---	.37	---	.05	.05	---
MEAN	.10	.14	.045	.16	.25	.12	.24	.11	.29	.076	.075	.054
MAX	.36	.35	.07	.46	.44	.25	.44	.37	.52	.33	.27	.25
MIN	.04	.03	.03	.03	.04	.03	.06	.05	.06	.04	.04	.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2001, BY WATER YEAR (WY)

MEAN	.14	.21	.25	.30	.32	.34	.38	.31	.25	.17	.13	.10
MAX	.33	.44	.48	.42	.44	.44	.58	.52	.42	.39	.25	.34
(WY)	1994	1995	1994	1994	1999	1989	1994	1995	1985	1997	1993	1993
MIN	.054	.031	.033	.032	.10	.12	.12	.11	.089	.076	.059	.039
(WY)	1998	2000	1999	2000	1996	2001	2000	2001	1991	2001	1996	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1985 - 2001	
ANNUAL MEAN	.14		.14		.24	
HIGHEST ANNUAL MEAN					.33	1994
LOWEST ANNUAL MEAN					.13	2000
HIGHEST DAILY MEAN	.64	Jun 24	.52	Jun 15	.92	Apr 11 1994
LOWEST DAILY MEAN	.03	Jan 5	.03	Nov 5,Sep 25-30	.02	Oct 4 1998
ANNUAL SEVEN-DAY MINIMUM	.03	Jan 5	.03	Sep 24	.02	Nov 29 1998
MAXIMUM PEAK FLOW	---		.52[a]	Jun 15	.92[a]	Apr 11 1994
MAXIMUM PEAK STAGE	---		2.25[b]	Jun 15	2.70[b]	May 7 2000
INSTANTANEOUS LOW FLOW	---		.03	Many Days	.02	Sep 30 1999
10 PERCENT EXCEEDS	.36		.36		.47	
50 PERCENT EXCEEDS	.07		.07		.19	
90 PERCENT EXCEEDS	.04		.04		.05	

[a] Estimated due to backwater from tributary stream.
[b] During period of backwater.

384304090441801 BURGERMEISTER SPRING NEAR WELDON SPRING, MO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- July 1987 to current year. Record from July 1987 to September 1989 published in U.S. Geological Survey Open-File Report 90-552 and record from October 1989 to September 1995 published in U.S. Geological Survey Open-File Report 95-463.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily mean 1,130 microseimens per centimeter, many days in August and September 1991; minimum daily mean, 70 microseimens per centimeter, Jan. 21 and 22, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum daily mean, 787 microseimens per centimeter, Nov. 5; minimum daily mean, 248 microseimens per centimeter, Feb. 25.

SPECIFIC CONDUCTANCE (microsiemens/cm at 25 Deg. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	611	574	596	774	752	761	589	579	582	772	746	759
2	641	610	626	782	752	767	590	580	585	776	750	763
3	667	446	651	778	759	768	596	587	592	778	678	746
4	736	496	660	784	764	773	609	594	600	753	714	737
5	496	425	466	789	763	777	604	597	601	759	713	744
6	428	396	409	787	671	757	614	598	604	764	712	745
7	488	417	456	764	40	537	629	609	620	821	646	744
8	528	484	513	510	465	488	656	624	635	646	410	457
9	536	468	513	576	429	518	653	638	646	461	412	441
10	488	464	474	429	386	395	666	651	658	494	459	478
11	523	482	505	455	398	423	677	655	667	575	482	513
12	553	517	536	477	453	464	698	675	686	565	524	545
13	582	552	568	540	464	499	706	663	689	547	499	518
14	615	581	596	477	440	449	723	703	714	502	399	448
15	641	594	622	524	452	488	739	700	720	399	354	374
16	670	613	647	538	463	484	729	693	715	379	356	367
17	714	446	532	516	476	498	744	720	731	404	367	389
18	488	449	470	531	509	519	752	728	734	440	392	415
19	526	484	506	549	516	535	749	730	741	452	414	434
20	550	517	538	576	537	552	761	724	744	482	436	458
21	584	547	567	597	550	573	766	702	740	493	454	476
22	611	582	597	604	572	584	799	701	744	527	477	507
23	642	610	623	605	587	595	765	715	734	549	496	518
24	655	634	645	604	577	588	758	679	716	544	492	515
25	677	654	665	578	561	568	757	694	729	596	492	530
26	698	674	685	574	560	564	770	712	745	593	504	536
27	717	695	705	570	562	565	783	737	754	602	495	546
28	730	705	718	574	558	561	770	745	758	569	524	542
29	749	714	730	577	560	569	769	747	758	620	219	510
30	755	734	745	587	572	580	771	747	759	371	319	332
31	761	740	754	---	---	---	779	720	755	356	325	335
MONTH	761	396	591	789	40	573	799	579	692	821	219	530

384304090441801 BURGERMEISTER SPRING NEAR WELDON SPRING, MO--Continued

SPECIFIC CONDUCTANCE (microsiemens/cm at 25 Deg. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	364	331	346	298	270	282	533	508	515	637	603	620
2	373	350	359	298	283	290	539	505	523	651	624	639
3	424	365	394	324	285	300	571	308	451	667	643	655
4	455	398	422	322	299	311	318	297	307	675	654	663
5	486	311	431	343	314	324	324	299	310	676	662	671
6	330	305	312	367	329	351	344	323	333	689	674	680
7	339	308	322	388	355	373	356	344	351	700	663	687
8	338	320	330	411	380	394	371	344	349	703	144	676
9	379	161	337	434	400	410	425	351	393	711	701	705
10	346	314	328	462	404	422	447	162	419	720	703	712
11	348	317	331	480	417	443	472	162	356	727	701	713
12	371	326	347	471	432	446	359	320	341	730	703	723
13	393	359	377	517	449	467	379	334	352	735	723	729
14	454	382	411	516	466	488	395	370	382	741	719	732
15	470	440	451	522	152	445	420	262	366	743	707	727
16	482	395	462	400	279	309	353	331	342	750	685	733
17	481	459	468	293	283	285	376	351	364	755	690	736
18	471	462	466	318	287	302	419	371	397	751	621	715
19	492	465	473	341	306	320	450	412	426	735	405	612
20	510	474	487	348	322	334	466	428	449	424	387	402
21	533	493	508	361	337	350	474	449	459	525	367	427
22	549	512	526	383	350	366	484	452	465	423	370	395
23	561	526	539	419	372	403	474	455	463	476	417	453
24	552	165	373	459	405	428	519	471	491	532	476	501
25	272	252	258	449	418	437	517	491	502	555	464	527
26	281	257	264	460	429	442	538	500	518	616	396	510
27	279	258	268	483	443	461	554	523	541	447	397	420
28	295	263	275	481	448	467	582	546	564	523	446	492
29	---	---	---	513	474	490	592	556	572	545	502	527
30	---	---	---	522	487	498	612	574	594	576	534	555
31	---	---	---	509	495	502	---	---	---	613	338	452
MONTH	561	161	388	522	152	392	612	162	430	755	144	606

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	350	334	340	649	606	624	713	683	695	705	668	690
2	399	346	373	665	131	641	725	672	700	727	694	710
3	450	399	423	681	654	669	732	691	715	733	697	722
4	469	338	369	692	606	676	741	708	725	745	712	730
5	344	326	333	708	675	691	759	707	734	753	722	741
6	369	328	344	710	685	698	774	734	751	758	733	748
7	338	326	330	722	660	703	784	737	763	765	743	758
8	384	335	359	731	661	708	783	397	744	772	753	764
9	420	379	401	734	674	719	796	707	772	771	686	755
10	463	419	439	736	688	713	798	458	620	776	747	763
11	485	453	473	749	683	723	466	430	443	784	729	767
12	500	477	489	751	690	729	535	450	496	792	755	776
13	520	479	503	754	714	736	582	532	560	799	747	781
14	531	105	504	766	712	743	608	579	593	794	769	779
15	503	123	289	781	700	745	637	599	619	787	694	742
16	292	275	282	784	715	753	671	606	650	695	648	668
17	336	292	319	779	704	746	692	662	679	652	636	644
18	365	330	346	785	651	745	711	685	700	667	491	635
19	372	353	363	787	744	765	722	705	716	739	505	631
20	406	366	384	792	555	760	730	712	721	506	486	492
21	442	402	423	711	397	431	735	709	728	547	490	515
22	470	431	451	488	415	451	741	723	735	591	546	571
23	474	452	463	556	488	524	743	566	723	625	591	608
24	485	459	473	578	529	556	770	691	738	662	625	643
25	504	471	486	590	565	578	743	452	501	694	661	678
26	520	488	503	607	571	590	516	458	487	725	693	708
27	541	513	528	637	582	612	563	509	534	739	716	727
28	561	531	549	657	604	628	603	559	585	755	734	744
29	589	552	573	677	642	657	634	602	617	771	751	759
30	625	573	601	684	644	673	656	628	642	782	762	772
31	---	---	---	696	657	681	680	643	663	---	---	---
MONTH	625	105	424	792	131	667	798	397	656	799	486	701

05587450 MISSISSIPPI RIVER AT GRAFTON, IL

LOCATION.--Lat 38°58'05", long 90°25'42", in NE $^1/_4$ sec.15, T.6 N., R.12 W., Jersey County, Hydrologic Unit 07110009, on left bank 0.2 mi downstream from the mouth of Illinois River, 15.3 mi above Lock and Dam 26, 23.0 mi above mouth of Missouri River, and at mile 218.6 upstream of the mouth of Ohio River.

DRAINAGE AREA.--171,300 mi^2, approximately.

PERIOD OF RECORD.--
DISCHARGE: Intermittently from 1880 to 1928, computed daily 1928 to 1932 by the National Weather Service and/or the U.S. Army Corps of Engineers. Discharge previously published as "Mississippi River at Alton, Illinois" for 1927 to September 1986.
GAGE HEIGHT: August 1879 through September 1892, 1929 to September 1986, October 1986 to current year. Stages also available from reports of the National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 403.79 ft above sea level. Auxiliary water-stage recorder 15.3 mi downstream.

REMARKS.--Records poor. Natural flow of river affected by many navigation dams in upper Mississippi River Basin. Flood water from Missouri River overtops or breaches the levees at extremely high stages. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1844 reached an elevation of 435.89 ft, present datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51700	50900	59900	e43000	98500	256000	168000	326000	254000	236000	95300	58200
2	44500	44200	55500	e41000	84900	251000	158000	325000	259000	231000	83400	49600
3	45000	43400	60000	e40000	107000	230000	165000	323000	269000	228000	74400	47600
4	53500	50900	59500	e42000	99100	153000	169000	320000	284000	226000	76000	49000
5	71000	56800	50500	e41000	89700	123000	161000	317000	283000	225000	82800	51900
6	61300	75400	46300	e42000	94400	158000	155000	314000	284000	224000	83900	52600
7	57200	56600	38400	e41000	88100	153000	148000	314000	299000	223000	86800	50900
8	54900	60300	34500	e40000	88300	138000	158000	316000	310000	218000	82400	53500
9	50100	61300	37600	e42000	102000	120000	183000	321000	309000	192000	79800	50400
10	36600	71100	41600	e41000	197000	122000	204000	327000	305000	167000	78800	51600
11	40000	94800	42000	e40000	229000	122000	230000	330000	296000	166000	76900	56600
12	45500	93000	33900	e40000	230000	126000	239000	330000	294000	164000	72700	66900
13	56100	93200	37700	e45000	225000	106000	247000	331000	293000	135000	70800	72700
14	43100	83800	37600	e50000	189000	106000	249000	336000	291000	107000	57400	72600
15	61600	89700	29300	e56000	145000	152000	251000	343000	295000	88000	42800	72200
16	63100	84300	34500	e53000	128000	210000	255000	350000	284000	76800	42100	65500
17	59800	84500	e46000	49400	113000	242000	260000	357000	277000	73900	43000	57700
18	50800	90300	e48000	53000	66300	260000	266000	363000	275000	76200	48700	51900
19	42900	88700	e46000	46400	53500	260000	273000	366000	267000	73700	51200	48200
20	33800	83000	e44000	53400	60500	260000	280000	366000	265000	77300	52800	47000
21	35400	84200	e43000	67900	81700	257000	286000	364000	261000	81700	56600	69400
22	41200	87800	e48000	59400	73600	246000	290000	356000	255000	80900	52900	72400
23	54400	66800	e50000	57500	84100	236000	294000	345000	249000	75500	63600	73700
24	56600	53500	e51000	50200	139000	233000	299000	333000	247000	87300	95200	68600
25	50900	52800	e46000	47200	231000	231000	305000	319000	248000	91600	73500	68800
26	49900	56300	e42000	50600	260000	228000	312000	305000	251000	94700	63300	59900
27	53700	49300	e40000	40500	264000	226000	317000	291000	253000	101000	61600	63000
28	55600	56000	e39000	49500	256000	224000	321000	277000	255000	102000	55700	68300
29	63900	46700	e38000	59500	---	216000	324000	265000	248000	90000	66000	65900
30	65800	54500	e39000	129000	---	190000	326000	257000	242000	95700	62900	63200
31	61800	---	e40000	117000	---	178000	---	254000	---	98100	61500	---
MEAN	51990	68800	43830	52500	138500	194000	243100	323900	273400	135700	67570	59990
MAX	71000	94800	60000	129000	264000	260000	326000	366000	310000	236000	95300	73700
MIN	33800	43400	29300	40000	53500	106000	148000	254000	242000	73700	42100	47000
IN.	.35	.45	.30	.35	.84	1.31	1.58	2.18	1.78	.91	.45	.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

MEAN	88960	92750	87140	79410	98170	147300	187300	199000	175800	151200	106100	84110
MAX	334900	171300	169900	161000	158000	217400	342100	333300	273400	469300	416900	309900
(WY)	1987	1987	1993	1993	1999	1997	1993	1993	2001	1993	1993	1993
MIN	28050	33270	31810	34800	40940	72220	72770	69140	36310	30420	37230	37850
(WY)	1989	1990	1990	1990	1989	1989	2000	1988	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1987 - 2001	
ANNUAL MEAN	86360		137500		124900	
HIGHEST ANNUAL MEAN					250700	1993
LOWEST ANNUAL MEAN					53860	1989
HIGHEST DAILY MEAN	291000	Jun 29	366000	May 19,20	596000	Aug 3 1993
LOWEST DAILY MEAN	29300	Dec 15	29300	Dec 15	20100	Dec 14 1988
ANNUAL SEVEN-DAY MINIMUM	34500	Jan 20	36700	Dec 10	23600	Dec 12 1988
MAXIMUM PEAK FLOW	---		367000	May 19	598000	Aug 1 1993
MAXIMUM PEAK ELEVATION	---		428.98	May 19	441.96	Aug 1 1993
INSTANTANEOUS LOW FLOW	---		29300	Dec 15	20100	Dec 14 1988
ANNUAL RUNOFF (INCHES)	6.86		10.90		9.90	
10 PERCENT EXCEEDS	196000		299000		248000	
50 PERCENT EXCEEDS	64300		84100		96500	
90 PERCENT EXCEEDS	39000		43000		43800	

e Estimated

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL
(National Stream-Quality Accounting Network)
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 38°57'04", long 90°22'16", in sec.24, T.6 N., R.11 W., Jersey County, Hydrologic Unit 07110009, 11.3 mi above Lock and Dam 26, 19.0 mi above mouth of Missouri River, and at mile 214.6 upstream from the mouth of the Ohio River.

DRAINAGE AREA.--171,300 mi^2, approximately.

PERIOD OF RECORD.--March 1989 to current year. National Stream-Quality Accounting Network station September 1989 to October 1992. Ambient Water-Quality Monitoring Network and National Stream-Quality Accounting Network station November 1992 to current year.

REMARKS.--Sediment records fair except for estimated daily loads, which are poor.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT: October 1989 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,910 mg/L, May 23, 1990; minimum daily mean, 1 mg/L, Sept. 10, 1991.
SUSPENDED-SEDIMENT LOADS: Maximum daily, 1,090,000 tons, May 23, 1990; minimum daily, 186 tons, Sept. 10, 1991.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 640 mg/L, Feb. 27; minimum daily mean, 49 mg/L, Oct. 21.
SUSPENDED-SEDIMENT LOADS: Maximum daily, 197,000 tons, June 16; minimum daily, 4,590 tons, Jan. 25.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	UV ABSORB-ANCE 254 NM, WTR FLT (units /cm) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (units /cm) (61726)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)
OCT												
02...	1410	ENVIRONMENTAL	44500	--	--	--	8.1	87	8.0	451	19.2	180
02...	1417	BLANK	--	--	--	--	--	--	--	--	--	--
NOV												
07...	1050	ENVIRONMENTAL	56600	11	.162	.120	7.5	76	7.9	482	15.3	200
FEB												
06...	1105	ENVIRONMENTAL	94400	--	.171	.133	14.7	103	7.4	363	.7	200
06...	1113	BLANK	--	--	--	--	--	--	--	--	--	--
21...	1315	ENVIRONMENTAL	81700	--	.159	.124	13.4	97	7.5	233	1.8	190
MAR												
01...	1125	ENVIRONMENTAL	256000	160	.155	.118	13.6	96	7.7	349	1.5	190
07...	1310	ENVIRONMENTAL	153000	--	.138	.104	12.6	92	7.5	405	3.0	200
21...	1240	ENVIRONMENTAL	257000	--	.155	.117	13.2	103	7.5	417	5.2	200
APR												
02...	1345	ENVIRONMENTAL	158000	--	.121	.091	14.2	115	7.9	494	6.7	210
16...	1435	ENVIRONMENTAL	255000	120	.147	.109	8.7	82	7.8	476	14.2	180
30...	1410	ENVIRONMENTAL	326000	56	.191	.142	9.0	92	7.5	355	16.0	230
MAY												
14...	1445	ENVIRONMENTAL	336000	--	.231	.172	7.8	81	7.8	385	18.7	170
JUN												
06...	1330	ENVIRONMENTAL	284000	140	.212	.156	7.4	79	7.8	416	17.4	190
11...	1325	ENVIRONMENTAL	296000	84	.182	.132	6.8	78	7.6	430	21.3	200
JUL												
16...	1420	ENVIRONMENTAL	76800	41	.207	.150	8.8	116	8.0	474	27.5	210
AUG												
06...	1425	ENVIRONMENTAL	83900	27	.173	.124	9.6	132	8.4	500	30.2	220
SEP												
12...	1245	ENVIRONMENTAL	66900	--	.161	.115	11.2	139	8.7	483	25.6	190

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued
(National Stream-Quality Accounting Network)
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ALKA-LINITY WAT DIS FIX END FIELD (mg/L as $CaCO_3$) (39036)	ALKA-LINITY WAT DIS TOT IT FIELD (mg/L as $CaCO_3$) (39086)	BICAR-BONATE WATER DIS IT FIELD (mg/L as HCO_3) (00453)	CAR-BONATE WATER DIS IT FIELD (mg/L as CO_3) (00452)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SILICA, DIS-SOLVED (mg/L as SiO_2) (00955)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)
OCT													
02...	41.3	19.1	2.53	18.2	130	136	165	0	29.2	.3	9.0	34.8	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
07...	43.0	22.8	2.67	22.3	160	158	193	0	30.3	.3	6.6	34.7	--
FEB													
06...	49.6	19.4	4.09	27.5	150	147	180	0	47.7	.2	8.2	35.8	174
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	45.6	17.4	3.96	20.9	198	201	176	0	42.2	.2	8.3	32.6	--
MAR													
01...	45.9	17.7	3.84	18.4	120	124	151	0	32.5	.2	8.1	30.3	--
07...	49.0	18.0	3.76	17.8	130	129	157	0	34.3	.2	8.3	33.7	152
21...	50.3	17.8	3.65	15.3	140	141	172	0	29.1	.2	8.7	34.1	--
APR													
02...	52.8	19.2	3.23	16.9	141	145	176	0	31.5	.2	8.3	30.5	--
16...	45.7	15.2	4.27	15.9	130	131	160	0	20.8	.2	9.2	37.9	--
30...	37.1	12.7	3.04	9.7	100	101	123	0	18.5	E.2	9.5	21.9	--
MAY													
14...	43.8	15.0	2.93	9.2	110	113	138	0	16.8	.2	10.4	31.0	--
JUN													
06...	47.6	16.8	2.84	11.9	120	128	157	0	19.5	.3	9.5	34.1	--
11...	48.8	17.9	3.25	10.8	120	126	153	0	19.1	.3	9.2	33.1	--
JUL													
16...	53.2	19.9	3.17	13.2	150	152	185	0	21.3	.3	10.5	33.5	--
AUG													
06...	53.6	21.8	3.02	15.4	166	169	186	10	25.4	.3	6.7	42.1	--
SEP													
12...	42.4	20.6	3.14	18.9	150	148	151	14	29.0	.2	.5	35.6	--

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (mg/L as N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	NITRO-GEN, PARTICULTE WAT FLT SUSP (mg/L as N) (49570)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (mg/L as C) (00688)	CARBON, ORGANIC DIS-SOLVED (mg/L as C) (00681)
OCT													
02...	264	<.020	.50	.67	1.45	.068	--	.186	.146	.239	--	--	6.4
02...	--	--	--	--	--	--	<.022	--	--	--	.1	<.1	1.3
NOV													
07...	278	.095	.56	.65	1.58	.039	.049	.157	.137	.203	1.1	<.1	5.1
FEB													
06...	318	.244	.84	1.3	3.56	.031	.364	.177	.136	.420	3.2	--	6.3
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	279	.316	.79	1.2	4.32	.029	.313	.143	.056	.344	2.9	<.1	7.0
MAR													
01...	626	.254	.79	1.9	4.38	.027	.946	.175	.149	.608	8.4	<.1	5.6
07...	278	.258	.78	1.2	4.67	.028	.523	.160	.128	.397	4.7	.2	5.0
21...	262	.237	.74	1.6	4.47	.028	.815	.141	.115	.493	5.2	<.1	5.6
APR													
02...	276	.143	.63	1.4	4.92	.022	.695	.128	.121	.342	4.0	<.1	4.7
16...	261	<.040	.46	1.8	3.42	.054	.946	.128	.116	.669	8.3	<.1	4.9
30...	215	.044	.58	.95	3.54	.048	.460	.070	.056	.192	3.9	<.1	5.9
MAY													
14...	206	<.040	.61	.79	3.48	.064	.325	.096	.069	.204	3.2	<.1	6.8
JUN													
06...	294	.059	.82	1.2	4.43	.089	.625	.130	.108	.342	5.5	<.1	7.7
11...	256	<.040	.56	.97	4.42	.054	.483	.122	.098	.267	4.2	<.1	6.1
JUL													
16...	300	<.040	.48	.69	3.66	.027	.455	.131	.116	.225	3.4	<.1	10
AUG													
06...	282	E.037	.46	.98	2.27	.031	.426	.110	.096	.191	2.1	<.1	5.5
SEP													
12...	260	<.040	.45	1.1	.317	.012	.429	.103	.086	.188	2.9	<.1	29

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued
(National Stream-Quality Accounting Network)
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, ORGANIC PARTIC-ULATE TOTAL (mg/L as C) (00689)	PHEO-PHYTIN A, PHYTO-PHYTON (µg/L) (62360)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (µg/L) (70953)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ANTI-MONY, DIS-SOLVED (µg/L as Sb) (01095)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BARIUM, DIS-SOLVED (µg/L as Ba) (01005)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	BORON, DIS-SOLVED (µg/L as B) (01020)
OCT													
02...	.6	--	K4	22	K15	--	--	--	--	--	--	--	--
02...	.1	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
07...	1.1	5.5	58	K60	81	5.0	--	--	--	--	--	--	--
FEB													
06...	--	12	64	72	830	6.8	E11	1610	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	2.8	4.2	K8	K18	450	3.9	--	--	--	--	--	--	--
MAR													
01...	8.3	11	160	170	1400	6.0	4	--	.11	.9	55.1	<.06	33
07...	4.5	9.4	K2	K10	K210	5.6	E11	1750	--	--	--	--	--
21...	5.1	10	140	130	3300	9.9	--	--	--	--	--	--	--
APR													
02...	3.9	25	29	24	K25	48.4	--	--	--	--	--	--	--
16...	8.2	32	140	K300	1000	9.3	--	--	--	1.6	--	--	32
30...	3.9	7.4	K65	96	K52	8.8	--	--	--	1.0	--	--	26
MAY													
14...	3.2	12	120	1100	160	15.5	--	--	--	--	--	--	--
JUN													
06...	5.5	9.1	940	1100	3100	9.0	--	--	--	--	--	--	--
11...	4.2	6.7	200	K140	K180	6.3	--	--	--	1.3	--	--	32
JUL													
16...	3.4	14	K12	K4	K4	28.3	E10	769	--	--	--	--	--
AUG													
06...	2.0	26	K2	K4	K1	43.7	--	--	--	--	--	--	--
SEP													
12...	2.9	58	2	2	11	80.4	--	--	--	--	--	--	--

DATE	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COBALT, DIS-SOLVED (µg/L as Co) (01035)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	LITHIUM DIS-SOLVED (µg/L as Li) (01130)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	MOLYB-DENUM, DIS-SOLVED (µg/L as Mo) (01060)	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)
OCT													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
06...	<8.00	E.10	--	--	<4.7	10	.09	3	--	48.3	<.14	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
01...	.05	--	<.8	.26	1.9	20	E.07	--	2.1	12.9	--	1.4	1.33
07...	<8.00	E.08	--	--	<4.7	M	.09	4	--	22.8	.40	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	40	--	--	5.5	--	--	--	--
30...	--	--	--	--	--	<10	--	--	2.9	--	--	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	--	<.01	--	--
JUN													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	<10	--	--	4.3	--	--	--	--
JUL													
16...	<8.00	<.10	--	--	<5.0	<10	<.08	1	--	<3.0	<.01	--	--
AUG													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued
(National Stream-Quality Accounting Network)
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	STRON-TIUM, DIS-SOLVED (µg/L as Sr) (01080)	VANA-DIUM, DIS-SOLVED (µg/L as V) (01085)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL-ATE, WATER, DISS, REC (µg/L) (04028)
OCT													
02...	--	--	--	--	--	--	<.002	<.004	<.002	<.005	.119	<.010	<.002
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
07...	--	--	--	--	--	--	<.002	.014	<.010	<.005	.177	<.010	<.002
FEB													
06...	--	--	--	--	<20	E21	<.002	.034	<.002	<.005	.169	<.010	<.002
06...	--	--	--	--	--	--	<.002	<.004	<.002	<.005	<.007	<.010	<.002
21...	--	--	--	--	--	--	<.002	.023	<.002	<.005	.142	<.010	<.002
MAR													
01...	.6	<1.0	101	1.8	2	--	<.002	.026	<.002	<.005	.100	<.010	<.002
07...	--	--	--	--	<20	E20	<.002	.016	<.002	<.005	.143	<.010	<.002
21...	--	--	--	--	--	--	<.002	.095	.008	<.005	.136	<.010	<.002
APR													
02...	--	--	--	--	--	--	<.002	.025	<.002	<.005	.084	<.010	<.002
16...	1.2	--	160	2.4	--	--	<.002	.134	.011	<.005	.679	<.010	<.002
30...	.5	--	90	2.2	--	--	<.002	.047	E.004	<.005	.108	<.010	<.002
MAY													
14...	--	--	--	--	--	--	<.002	.330	<.002	<.005	.798	<.010	<.002
JUN													
06...	--	--	--	--	--	--	<.002	.532	.053	<.005	3.22	<.010	<.002
11...	.8	--	113	2.3	--	--	<.002	.369	.025	<.005	1.69	<.010	<.002
JUL													
16...	--	--	--	--	30	<31	.125	.247	.139	.101	.840	.075	.118
AUG													
06...	--	--	--	--	--	--	<.002	.067	.006	<.005	.535	<.010	<.002
SEP													
12...	--	--	--	--	--	--	<.002	.013	<.002	<.005	.220	<.010	<.002

DATE	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (µg/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)	DI-ELDRIN DIS-SOLVED (µg/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	ETHO-PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)
OCT													
02...	<.041	<.020	<.005	<.018	<.003	E.010	.011	<.005	<.021	<.002	<.009	<.005	<.003
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
07...	<.041	<.020	<.005	<.018	<.003	E.046	E.004	<.005	<.021	<.002	<.009	<.005	<.003
FEB													
06...	<.041	<.020	<.005	<.018	<.003	E.011	<.005	<.005	<.021	<.002	<.009	<.005	<.003
06...	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.021	<.002	<.009	<.005	<.003
21...	<.041	<.020	<.005	E.006	<.003	E.058	<.005	<.005	<.021	<.002	<.009	<.005	<.003
MAR													
01...	<.041	<.020	<.005	E.008	<.003	E.040	<.005	<.005	<.021	<.002	<.009	<.005	<.003
07...	<.041	<.020	<.005	E.007	<.003	E.029	E.004	<.005	<.021	<.002	<.009	<.005	<.003
21...	<.041	<.020	<.005	E.013	<.003	E.040	<.005	<.005	<.021	<.002	<.009	<.005	<.003
APR													
02...	<.041	<.020	<.005	E.007	<.003	E.046	<.005	<.005	<.021	<.002	<.009	<.005	<.003
16...	<.041	<.020	<.005	E.011	<.003	E.044	<.005	<.005	<.021	<.002	<.009	<.005	<.003
30...	<.041	<.020	<.005	<.018	<.003	E.032	<.005	<.005	<.021	<.002	<.009	<.005	<.003
MAY													
14...	<.041	<.020	<.005	<.018	<.003	E.068	<.005	<.005	<.021	<.002	<.009	<.005	<.003
JUN													
06...	<.041	<.020	<.005	E.011	<.003	E.315	<.005	<.005	<.021	<.002	<.009	<.005	<.003
11...	<.041	<.020	<.005	E.017	<.003	E.306	.011	<.005	<.021	<.002	<.009	<.005	<.003
JUL													
16...	E.143	E.122	.099	.119	.114	E.214	.114	.106	.100	.125	.102	.110	.110
AUG													
06...	<.041	<.020	<.005	<.018	<.003	E.114	<.005	<.005	<.021	<.002	<.009	<.005	<.003
SEP													
12...	<.041	<.020	<.005	<.018	<.003	E.043	E.003	<.005	<.021	<.002	<.009	<.005	<.003

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued
(National Stream-Quality Accounting Network)
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	LINDANE DIS-SOLVED (µg/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA-THION, DIS-SOLVED (µg/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA-THION, DIS-SOLVED (µg/L) (39542)	PEB-ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)
OCT													
02...	<.004	<.035	<.027	<.050	<.006	.020	<.006	<.002	<.007	<.003	<.007	<.002	<.010
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
07...	<.004	<.035	<.027	<.050	<.006	.030	<.006	<.002	<.060	<.003	<.007	<.002	<.010
FEB													
06...	<.004	<.035	<.027	<.050	<.006	.166	<.006	<.002	<.007	<.003	<.007	<.002	<.010
06...	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010
21...	<.004	<.035	<.027	<.050	<.006	.146	<.006	<.002	<.007	<.003	<.007	<.002	<.010
MAR													
01...	<.004	<.035	<.027	<.050	<.006	.096	<.006	<.002	<.007	<.003	<.007	<.002	<.010
07...	<.004	<.035	<.027	<.050	<.006	.291	<.006	<.002	<.007	<.003	<.007	<.002	<.010
21...	<.004	<.035	<.027	<.050	<.006	.081	<.006	<.002	<.007	<.003	<.007	<.002	<.010
APR													
02...	<.004	<.035	<.027	<.050	<.030	.929	<.006	<.002	<.007	<.003	<.007	<.002	<.010
16...	<.004	<.035	<.027	<.050	<.030	.386	.007	<.002	<.007	<.003	<.007	<.002	<.010
30...	<.004	<.035	<.027	<.050	<.040	.312	<.006	<.002	<.007	<.003	<.007	<.002	<.010
MAY													
14...	<.004	<.035	<.027	<.050	<.006	.468	<.006	<.002	<.007	<.003	<.007	<.002	<.010
JUN													
06...	<.004	<.035	<.027	<.050	<.006	1.02	.027	<.002	<.007	<.003	<.007	<.002	<.010
11...	<.004	<.035	<.027	<.050	<.006	.682	.014	<.002	<.007	<.003	<.007	<.002	<.010
JUL													
16...	.090	.119	.082	E.176	.147	.382	.130	.113	.137	.103	.127	.112	.109
AUG													
06...	<.004	<.035	<.027	<.050	<.006	.138	<.006	<.002	<.007	<.003	<.007	<.002	<.010
SEP													
12...	<.004	<.035	<.027	<.050	<.006	.037	<.006	<.002	<.007	<.003	<.007	<.002	<.010

DATE	PER-METHRIN CIS WAT FLT 0.7µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO-PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI-MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER-BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)
OCT													
02...	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017	<.005	<.002
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
07...	<.006	<.011	E.009	<.004	<.010	<.011	<.023	.078	<.016	<.034	<.017	<.005	<.002
FEB													
06...	<.006	<.011	<.015	<.004	<.010	<.011	<.023	E.010	<.016	<.034	<.017	<.005	<.002
06...	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017	<.005	<.002
21...	<.006	<.011	E.004	<.004	<.010	<.011	<.023	.025	<.016	<.034	<.017	<.005	<.002
MAR													
01...	<.006	<.011	E.003	<.004	<.010	<.011	<.023	.036	<.016	<.034	<.017	<.005	<.002
07...	<.006	<.011	E.004	<.004	<.010	<.011	<.023	.054	<.016	<.034	<.017	<.005	<.002
21...	<.006	<.011	E.004	<.004	<.010	<.011	<.023	.016	<.016	<.034	<.017	<.005	<.002
APR													
02...	<.006	<.011	<.015	<.004	<.010	<.011	<.023	E.004	<.016	<.034	<.017	<.005	<.002
16...	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.022	<.016	<.034	<.017	<.005	<.002
30...	<.006	<.011	E.003	<.004	<.010	<.011	<.023	.011	<.016	<.034	<.017	<.005	<.002
MAY													
14...	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.040	<.016	<.034	<.017	<.005	<.002
JUN													
06...	<.006	<.011	E.006	<.004	<.010	<.011	<.023	.113	<.016	<.034	<.017	<.005	<.002
11...	<.006	<.011	E.004	<.004	<.010	<.011	<.023	.077	<.016	<.034	<.017	<.005	<.002
JUL													
16...	.058	.126	.110	.115	.127	.119	.358	.131	.112	E.125	.100	.114	.112
AUG													
06...	<.006	<.011	E.008	<.004	<.010	<.011	<.023	E.010	<.016	<.034	<.017	<.005	<.002
SEP													
12...	<.006	<.011	E.008	<.004	<.010	<.011	<.023	E.007	<.016	<.034	<.017	<.005	<.002

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued
(National Stream-Quality Accounting Network)
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TRI-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)	URANIUM NATURAL DIS-SOLVED (µg/L as U) (22703)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 mm (70331)	SEDI-MENT, SUS-PENDED (mg/L) (80154)
OCT				
02...	<.009	--	98	36
02...	--	--	--	--
NOV				
07...	<.009	--	99	24
FEB				
06...	<.009	--	98	172
06...	<.009	--	--	--
21...	<.009	--	92	248
MAR				
01...	<.009	.87	94	396
07...	<.009	--	91	184
21...	<.009	--	94	312
APR				
02...	<.009	--	97	122
16...	<.009	--	92	273
30...	<.009	--	97	123
MAY				
14...	<.009	--	85	114
JUN				
06...	<.009	--	97	235
11...	<.009	--	98	126
JUL				
16...	.083	--	96	97
AUG				
06...	<.009	--	98	56
SEP				
12...	<.009	--	97	53

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

MISSISSIPPI RIVER MAIN STEM

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
		OCTOBER			NOVEMBER			DECEMBER	
1	51700	69	9630	50900	62	8170	59900	78	13200
2	44500	78	12900	44200	65	6620	55500	97	14200
3	45000	79	12500	43400	68	8160	60000	96	15200
4	53500	79	12400	50900	65	7920	59500	88	12900
5	71000	98	15500	56800	55	7050	50500	98	15500
6	61300	125	19500	75400	54	6770	46300	97	15200
7	57200	120	17700	56600	69	8510	38400	83	16500
8	54900	98	15000	60300	78	8500	34500	92	17200
9	50100	84	11200	61300	72	7940	37600	78	12400
10	36600	78	10900	71100	79	9080	41600	85	13600
11	40000	62	9710	94800	96	10700	42000	99	17700
12	45500	68	10100	93000	108	15100	33900	101	17900
13	56100	81	12200	93200	119	13500	37700	110	17200
14	43100	75	11300	83800	107	12400	37600	---	e16200
15	61600	75	10700	89700	118	13800	29300	---	e14600
16	63100	81	10400	84300	119	15600	34500	---	e17100
17	59800	70	8390	84500	107	13100	46000	---	e17100
18	50800	69	9070	90300	122	16800	48000	---	e15800
19	42900	69	8520	88700	134	16500	46000	---	e16400
20	33800	62	8080	83000	108	11800	44000	---	e12400
21	35400	49	6230	84200	98	13400	43000	---	e11500
22	41200	50	5420	87800	108	15000	48000	---	e11000
23	54400	56	7040	66800	102	11100	50000	---	e11200
24	56600	64	7720	53500	95	13400	51000	---	e12200
25	50900	64	8220	52800	88	12700	46000	---	e11300
26	49900	70	9090	56300	87	11000	42000	---	e10200
27	53700	66	9070	49300	90	13600	40000	---	e10900
28	55600	79	9400	56000	67	9960	39000	---	e10000
29	63900	81	10700	46700	68	10800	38000	---	e10600
30	65800	64	8920	54500	75	11200	39000	---	e11900
31	61800	64	7940	---	---	---	40000	---	e11900
		JANUARY			FEBRUARY			MARCH	
1	43000	---	e12100	98500	66	6630	256000	453	138000
2	41000	---	e12900	84900	64	6380	251000	469	126000
3	40000	---	e11400	107000	62	6420	230000	450	130000
4	42000	---	e9420	99100	66	5440	153000	415	125000
5	41000	---	e10100	89700	113	11400	123000	405	124000
6	42000	---	e10900	94400	193	22300	158000	275	84400
7	41000	---	e7970	88100	180	19400	153000	238	71500
8	40000	---	e8580	88300	186	21400	138000	309	89500
9	42000	---	e8720	102000	139	14000	120000	286	78200
10	41000	---	e8110	197000	133	12800	122000	238	63800
11	40000	---	e7190	229000	122	10800	122000	189	52500
12	40000	---	e9170	230000	165	18500	126000	151	41800
13	45000	---	e8440	225000	232	23900	106000	158	41300
14	50000	---	e8070	189000	329	34000	106000	185	46500
15	56000	---	e7500	145000	301	31600	152000	278	64300
16	53000	---	e5870	128000	290	28700	210000	265	63400
17	49400	68	7820	113000	262	32600	242000	313	78700
18	53000	82	8320	66300	231	27400	260000	420	105000
19	46400	76	7590	53500	204	22200	260000	460	103000
20	53400	81	7470	60500	224	24500	260000	434	91200
21	67900	88	8760	81700	262	27600	257000	339	68600
22	59400	91	9680	73600	190	17900	246000	239	49900
23	57500	91	7870	84100	183	19500	236000	239	49800
24	50200	81	7250	139000	147	16700	233000	253	46100
25	47200	54	4590	231000	277	36300	231000	255	44300
26	50600	51	4880	260000	634	128000	228000	232	38100
27	40500	62	7010	264000	640	179000	226000	234	41400
28	49500	69	8240	256000	484	148000	224000	223	31800
29	59500	71	8640	---	---	---	216000	176	30200
30	129000	69	7300	---	---	---	190000	175	31600
31	117000	67	7170	---	---	---	178000	167	29200

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
	APRIL			MAY			JUNE		
1	168000	158	29700	326000	109	31900	254000	160	44600
2	158000	152	25100	325000	107	28800	259000	213	69700
3	165000	152	25600	323000	99	26800	269000	286	107000
4	169000	141	20200	320000	89	22700	284000	298	109000
5	161000	143	24400	317000	95	22100	283000	259	105000
6	155000	145	24000	314000	100	22900	284000	241	108000
7	148000	155	25300	314000	97	23400	299000	278	129000
8	158000	155	21800	316000	89	18400	310000	294	137000
9	183000	189	27900	321000	101	20100	309000	260	126000
10	204000	267	39500	327000	138	27700	305000	217	108000
11	230000	223	34300	330000	139	30000	296000	170	86600
12	239000	280	42700	330000	136	29300	294000	147	79000
13	247000	288	49800	331000	132	26700	293000	157	87200
14	249000	300	45800	336000	141	29600	291000	194	109000
15	251000	317	44100	343000	139	30300	295000	257	149000
16	255000	302	40800	350000	156	33700	284000	337	197000
17	260000	305	41400	357000	155	33500	277000	322	191000
18	266000	279	42300	363000	129	29200	275000	295	180000
19	273000	251	42900	366000	103	21400	267000	295	184000
20	280000	223	29100	366000	98	19700	265000	269	170000
21	286000	191	34800	364000	118	29600	261000	229	152000
22	290000	192	53600	356000	141	37800	255000	241	158000
23	294000	207	67200	345000	134	38300	249000	261	167000
24	299000	179	51500	333000	118	34100	247000	237	159000
25	305000	151	41900	319000	127	37800	248000	213	150000
26	312000	154	43800	305000	138	40600	251000	222	160000
27	317000	187	52900	291000	123	39700	253000	233	177000
28	321000	175	50200	277000	124	41600	255000	211	165000
29	324000	161	46300	265000	137	42600	248000	172	135000
30	326000	146	44400	257000	146	44400	242000	168	127000
31	---	---	---	254000	147	44000	---	---	---
	JULY			AUGUST			SEPTEMBER		
1	236000	152	109000	95300	95	20500	58200	68	11800
2	231000	156	106000	83400	94	19500	49600	76	12300
3	228000	145	95900	74400	99	23100	47600	65	9910
4	226000	143	91100	76000	92	22200	49000	67	10300
5	225000	139	87000	82800	79	17900	51900	77	10400
6	224000	127	78300	83900	92	16200	52600	68	9870
7	223000	134	83000	86800	101	18000	50900	73	10600
8	218000	148	91400	82400	101	21800	53500	75	10100
9	192000	153	92700	79800	102	21800	50400	85	12200
10	167000	151	85200	78800	96	20000	51600	86	13000
11	166000	134	62700	76900	97	20200	56600	91	14500
12	164000	137	62700	72700	97	18600	66900	101	13900
13	135000	152	70500	70800	91	17400	72700	114	16500
14	107000	137	63700	57400	99	14100	72600	110	18500
15	88000	130	65400	42800	91	12400	72200	125	22000
16	76800	117	61300	42100	85	13100	65500	110	20200
17	73900	121	65900	43000	77	12800	57700	102	19500
18	76200	99	55900	48700	81	14200	51900	99	21100
19	73700	97	56900	51200	74	12800	48200	111	22200
20	77300	104	60300	52800	55	10600	47000	117	20300
21	81700	96	53900	56600	62	11200	69400	113	20500
22	80900	93	51300	52900	72	12700	72400	112	21800
23	75500	88	48100	63600	83	15500	73700	108	17100
24	87300	79	40800	95200	112	24100	68600	124	18200
25	91600	79	32000	73500	109	25400	68800	127	20900
26	94700	93	30400	63300	90	18500	59900	100	19500
27	101000	92	24300	61600	86	14600	63000	102	21200
28	102000	96	25100	55700	81	13100	68300	95	15700
29	90000	100	24200	66000	80	11200	65900	105	17000
30	95700	95	18400	62900	84	11100	63200	86	13600
31	98100	98	21700	61500	82	13000	---	---	---

e Estimated

06813500 MISSOURI RIVER AT RULO, NE

LOCATION.--Lat 40°03'13", long 95°25'19", in NW$^1/_4$ NW$^1/_4$ sec.17, T.1 N., R.18 E., Richardson County, Hydrologic Unit 10240005, on right bank at downstream side of bridge on U.S. Highway 159 at Rulo, 3.2 mi upstream from Big Nemaha River, and at mile 498.0.

DRAINAGE AREA.--414,900 mi^2, approximately. The 3,959 mi^2 in Great Divide basin are not included.

PERIOD OF RECORD.--October 1949 to current year in reports of U.S. Geological Survey. Gage- height record collected at site 80 ft upstream January 1886 to December 1899 published in reports of Missouri River Commission; September 1929 to September 1950 in files of Kansas City office of U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 837.23 ft above sea level. Oct. 1949, to Sept. 12, 1950, nonrecording gage at site 80 ft upstream and Sept. 13, 1950, to Apr. 19, 1983, recording gage on downstream end of middle pier, all at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by upstream main-stem reservoirs. Fort Randall Dam was completed in July 1952, with storage beginning in December 1952. Gavins Point Dam was completed in July 1955, with storage beginning in December 1955. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1881 reached a stage of 22.9 ft, from floodmark, discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38400	42200	e30000	22700	22700	26200	46000	75800	64900	40900	38600	33500
2	38400	42100	28200	22400	22600	25800	45500	71800	59500	39900	38000	33300
3	38800	42100	27000	22300	21500	25500	46300	72300	54200	39800	37300	32800
4	39300	42200	26800	22500	21100	25600	48500	76400	65000	42800	36600	32900
5	39300	41900	25200	22600	21300	28200	47200	88300	62000	44800	36600	33300
6	39900	43000	23300	22800	20700	30700	46900	103000	58000	42400	35300	33200
7	40200	45300	23200	23000	22500	30700	47000	93100	56600	40500	35100	33100
8	40400	45400	22300	22800	24200	29600	49200	83900	52700	40000	34500	36100
9	40500	44300	21300	22600	24400	30300	51700	77800	49300	39200	33300	37700
10	40300	42600	23100	22800	23600	31900	55000	72900	47400	39400	32700	35700
11	40300	41100	24300	23100	22900	32900	57600	76600	49100	39700	32400	35000
12	39800	40100	21600	23000	22500	46900	64500	73100	48200	42300	32200	34600
13	39800	39600	18600	23200	21800	48000	67900	69500	46500	41400	32300	34400
14	40100	38800	e17200	23800	21400	51900	69900	67300	61800	38500	32300	34500
15	40000	39200	e16500	24300	22500	52400	68500	65100	77200	37500	32500	35800
16	40000	38600	e15000	24200	22900	70300	71000	61500	74800	37000	34600	37800
17	40200	38500	16000	24100	22000	63300	74500	58600	60500	36500	35000	45100
18	40100	38900	18700	24000	20900	57800	76300	56000	55400	36600	34800	43500
19	40000	39100	19300	23800	20600	56300	75700	53800	57200	47900	35300	41300
20	39900	39500	e18400	23500	22100	53500	72300	52800	61400	46500	35000	39200
21	39800	40400	e16500	22500	23300	54400	66600	68900	68900	39900	34800	37200
22	40000	40500	17000	22100	23200	61000	62000	66700	57100	38300	34700	36600
23	39900	40000	18600	21400	22200	69900	59400	60800	51200	37100	34300	36800
24	40500	40300	19800	21100	31200	66300	59100	55400	47000	35900	34400	37200
25	41000	39900	20800	22000	48700	59700	61300	53400	45100	36800	34300	36000
26	40800	39500	20900	22600	41300	53000	70600	52300	44000	37600	34200	34300
27	40400	37800	21900	22500	35300	48500	73100	51000	43300	36800	34000	33600
28	40600	36300	22300	22000	28600	46100	76100	49500	42100	46800	33600	33800
29	40900	34700	22400	21600	---	45500	78600	48100	41500	46100	33300	34100
30	40700	e32500	22400	21600	---	45500	77700	51400	41600	43000	32800	34900
31	41700	---	22600	21900	---	45800	---	64600	---	40700	33000	---
MEAN	40060	40210	21330	22740	24930	45600	62200	66830	54780	40410	34450	35910
MAX	41700	45400	30000	24300	48700	70300	78600	103000	77200	47900	38600	45100
MIN	38400	32500	15000	21100	20600	25500	45500	48100	41500	35900	32200	32800
IN.	.11	.11	.06	.06	.06	.13	.17	.19	.15	.11	.10	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2001[a], BY WATER YEAR (WY)

MEAN	44970	41190	27380	22850	28680	41470	51710	52220	57140	51160	45120	45290
MAX	80050	83880	57380	42280	53140	79590	106100	97280	130600	164800	78730	76410
(WY)	1998	1998	1998	1973	1997	1979	1997	1997	1984	1993	1996	1997
MIN	25580	17000	9953	10800	13220	15380	21820	33790	33710	33860	29820	34140
(WY)	1962	1962	1956	1957	1957	1957	1957	1956	1956	1963	1955	1991

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1953 - 2001[a]	
ANNUAL MEAN	37610		40840		42470	
HIGHEST ANNUAL MEAN					71880	1997
LOWEST ANNUAL MEAN					26340	1957
HIGHEST DAILY MEAN	70000	Jun 26	103000	May 6	289000	Jul 24 1993
LOWEST DAILY MEAN	15000	Dec 16	15000	Dec 16	4420	Jan 13 1957
ANNUAL SEVEN-DAY MINIMUM	17200	Dec 15	17200	Dec 15	5560	Nov 30 1955
MAXIMUM PEAK FLOW	---		108000	May 6	307000	Jul 24 1993
MAXIMUM PEAK STAGE	---		21.44	May 6	25.37	Jul 24 1993
ANNUAL RUNOFF (INCHES)	1.23		1.34		1.39	
10 PERCENT EXCEEDS	45200		65600		67000	
50 PERCENT EXCEEDS	39100		39300		39000	
90 PERCENT EXCEEDS	28600		22300		18800	

e Estimated
[a] Post regulation

06815555 DAVIS CREEK AT MOUND CITY, MO

LOCATION.--Lat 40°07'47", long 95°13'50", in NE $^1/_4$ NE $^1/_4$ NW $^1/_4$ sec.6, T.61 N., R.38 W., Holt County, Hydrologic Unit 10240005, on left bank at downstream side of Highway E bridge in Mound City.

DRAINAGE AREA.--22.9 mi^2

PERIOD OF RECORD.--Jan. 20, 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	e2.8	13	6.3	5.4	1.0	2.3	1.2	.60
2	---	---	---	---	e2.8	5.6	4.9	4.9	2.6	2.3	1.1	.57
3	---	---	---	---	e3.0	13	3.5	3.9	1.7	4.3	1.3	.46
4	---	---	---	---	e3.3	8.3	2.7	3.8	1.2	23	1.1	.46
5	---	---	---	---	e2.9	5.9	e2.8	3.4	1.0	7.3	.84	.38
6	---	---	---	---	e3.0	4.2	e2.9	3.2	.92	4.0	.68	.39
7	---	---	---	---	e4.0	3.8	e2.9	3.5	.80	2.7	.55	.32
8	---	---	---	---	e3.8	3.2	e2.8	3.3	.70	2.1	.54	.31
9	---	---	---	---	e3.9	2.3	e2.8	4.1	.63	1.7	.43	.27
10	---	---	---	---	e7.5	1.9	e2.8	3.7	.65	1.3	.32	.25
11	---	---	---	---	e7.3	2.2	e2.8	3.3	.89	1.3	.31	.17
12	---	---	---	---	e4.8	2.4	e2.9	2.9	3.8	1.3	.26	.09
13	---	---	---	---	e5.5	2.3	4.2	2.6	3.3	.96	.23	1.1
14	---	---	---	---	e5.5	3.0	.95	2.7	8.0	.82	.20	.36
15	---	---	---	---	e6.0	3.5	.67	2.9	2.2	.72	.17	.32
16	---	---	---	---	e7.3	3.1	1.8	2.9	2.8	.72	e.16	.34
17	---	---	---	---	e6.6	2.3	1.5	3.1	1.8	1.7	.13	.33
18	---	---	---	---	e6.7	4.3	1.0	3.0	1.6	18	.17	.30
19	---	---	---	---	e6.5	7.7	.96	2.8	1.5	7.2	6.2	e.24
20	---	---	---	e2.9	e6.5	5.3	1.7	3.0	4.5	3.0	103	e.40
21	---	---	---	e2.5	e7.0	3.9	1.1	2.9	2.1	1.9	4.3	e.45
22	---	---	---	e3.0	e8.0	3.7	1.0	2.5	1.6	1.5	2.6	e.55
23	---	---	---	e3.5	e10	4.6	1.1	2.4	2.3	1.3	2.0	e.65
24	---	---	---	e2.5	23	19	1.1	1.8	75	1.2	1.7	e.80
25	---	---	---	e2.8	25	9.4	1.5	1.3	27	1.2	1.4	e.90
26	---	---	---	e2.5	14	5.8	2.4	6.6	29	4.5	1.5	e.75
27	---	---	---	e2.4	6.8	4.2	3.8	3.5	5.6	18	1.3	e.55
28	---	---	---	e2.5	4.7	3.5	3.7	2.5	4.1	3.5	1.2	e.45
29	---	---	---	e2.9	10	3.3	3.5	1.8	3.3	2.4	.88	.42
30	---	---	---	e2.8	---	2.9	4.0	1.4	2.8	1.8	.79	.36
31	---	---	---	e2.5	---	2.5	---	1.2	---	1.4	.67	---
MEAN	---	---	---	2.73	7.18	5.16	2.54	3.11	6.48	4.05	4.43	.45
MAX	---	---	---	3.5	25	19	6.3	6.6	75	23	103	1.1
MIN	---	---	---	2.4	2.8	1.9	.67	1.2	.63	.72	.13	.09

SUMMARY STATISTICS	FOR PERIOD OF RECORD	
HIGHEST DAILY MEAN	103	Aug 20
LOWEST DAILY MEAN	.09	Sep 12
ANNUAL SEVEN-DAY MINIMUM	.19	Aug 12
MAXIMUM PEAK FLOW	415	Aug 20
MAXIMUM PEAK STAGE	9.98	Aug 20
INSTANTANEOUS LOW FLOW	.07	Sep 12
10 PERCENT EXCEEDS	7.1	
50 PERCENT EXCEEDS	2.5	
90 PERCENT EXCEEDS	.41	

e Estimated

06815555 DAVIS CREEK AT MOUND CITY, MO--Continued

LOCATION.--Lat 40°07'47", long 95°13'50", in NE $^1/_4$ NE $^1/_4$ NW $^1/_4$ sec.6, T.61 N., R.38 W., Holt County, Hydrologic Unit 10240005, on left bank at downstream side of Highway E bridge, in Mound City.

DRAINAGE AREA.--22.9 mi^2.

PERIOD OF RECORD.--Jan. 20, 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	6.9	4.0	e1.0	e5.5	16	12	15	11	26	11	4.4
2	.32	2.4	3.4	e.95	e5.0	13	11	11	9.0	23	11	4.4
3	.40	1.4	e3.4	e.88	e6.0	13	11	17	13	27	12	4.3
4	.40	1.5	e3.4	e.80	e7.5	12	12	19	29	22	10	4.1
5	1.1	1.6	e3.6	e.90	e9.0	14	11	20	118	21	9.1	5.0
6	.67	14	e3.5	e1.0	e11	16	12	16	225	18	9.3	8.2
7	.56	5.1	e3.4	e1.0	e35	17	11	12	51	14	7.3	9.3
8	.77	2.7	e3.4	e1.1	e40	24	8.9	10	35	12	6.5	14
9	.83	2.5	e3.0	e1.2	e38	29	9.3	12	30	17	6.4	6.7
10	.94	2.5	e2.8	e1.5	e36	32	9.2	21	37	13	5.8	5.5
11	.98	2.5	e2.0	e2.1	e30	40	27	118	29	13	5.8	5.1
12	1.2	2.7	e1.5	e2.5	e28	50	17	32	23	85	5.6	4.9
13	1.4	2.5	e1.2	e15	e25	35	13	26	21	21	5.5	5.6
14	1.4	2.5	e1.2	e20	e20	28	14	21	167	16	6.0	4.9
15	1.2	2.5	e1.8	e12	e17	26	18	16	53	13	6.6	73
16	1.1	2.3	e1.5	e9.0	e10	25	13	16	32	13	5.9	26
17	1.2	2.2	e1.5	e5.5	e8.0	24	12	14	28	12	5.7	21
18	1.3	2.4	e1.8	e4.0	e7.0	21	16	14	24	14	5.7	18
19	1.5	2.5	e1.8	e3.0	e13	19	13	14	40	36	4.9	14
20	1.8	2.1	e2.0	e2.2	e13	17	17	13	138	22	4.5	9.8
21	1.7	e1.7	e2.0	e2.5	e14	16	21	12	179	18	4.0	8.3
22	2.2	e2.2	e1.5	e2.5	6.0	18	20	10	53	17	4.0	8.1
23	1.7	e2.6	e1.8	e3.5	6.9	18	12	9.1	40	15	4.2	9.2
24	2.3	e2.9	e1.5	e3.0	423	14	13	9.4	35	16	7.2	8.0
25	2.0	3.6	e1.2	e2.2	135	12	14	9.8	31	41	9.9	7.4
26	1.7	3.1	e1.2	e2.5	42	12	11	9.2	28	22	6.1	7.2
27	1.4	2.8	e1.2	e2.8	23	12	7.4	8.1	25	17	6.3	7.0
28	.92	3.4	e1.0	e3.0	30	12	9.5	7.9	24	88	5.7	6.4
29	1.6	3.5	e1.2	e13	---	12	8.8	8.3	22	28	4.4	6.1
30	2.7	3.7	e1.5	e15	---	13	12	14	24	23	4.9	6.2
31	2.3	---	e1.5	e8.0	---	14	---	15	---	14	4.7	---
MEAN	1.29	3.14	2.12	4.63	37.3	20.1	13.2	17.7	52.5	23.8	6.65	10.7
MAX	2.7	14	4.0	20	423	50	27	118	225	88	12	73
MIN	.32	1.4	1.0	.80	5.0	12	7.4	7.9	9.0	12	4.0	4.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	1.29	3.14	2.12	4.63	22.0	12.6	7.87	10.4	29.5	13.9	5.54	5.59
MAX	1.29	3.14	2.12	4.63	37.3	20.1	13.2	17.7	52.5	23.8	6.65	10.7
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	1.29	3.14	2.12	4.63	7.18	5.16	2.54	3.11	6.48	4.05	4.43	.45
(WY)	2001	2001	2001	2001	2000	2000	2000	2000	2000	2000	2000	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL MEAN			15.9		15.9	
HIGHEST ANNUAL MEAN					15.9	2001
LOWEST ANNUAL MEAN					15.9	2001
HIGHEST DAILY MEAN	103	Aug 20	423	Feb 24	423	Feb 24 2001
LOWEST DAILY MEAN	.09	Sep 12	.32	Oct 2	.09	Sep 12 2000
ANNUAL SEVEN-DAY MINIMUM	.19	Aug 12	.54	Oct 1	.19	Aug 12 2000
MAXIMUM PEAK FLOW	---		633	Feb 24	633	Feb 24 2001
MAXIMUM PEAK STAGE	---		13.41	Feb 24	13.41	Feb 24 2001
INSTANTANEOUS LOW FLOW	---		.21	Oct 2	.07	Sep 12 2000
10 PERCENT EXCEEDS	6.3		29		24	
50 PERCENT EXCEEDS	2.3		9.2		4.0	
90 PERCENT EXCEEDS	.46		1.4		.88	

e Estimated

06815575 SQUAW CREEK NEAR MOUND CITY, MO

LOCATION.--Lat 40°09'21" long 95°15'52", in SE $^1/_4$ SW $^1/_4$ NE $^1/_4$ sec.26, T.62 N., R.39 W., Holt County, Hydrologic Unit 10240005, on right bank of downstream side of State Highway 59 bridge, 2.4 mi northwest of Mound City.

DRAINAGE AREA.--62.7 mi^2.

PERIOD OF RECORD.--October 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.0	5.1	e4.0	e1.7	e6.5	42	44	27	30	45	24	10
2	e2.0	5.4	4.1	e1.4	e6.5	35	40	26	26	46	22	10
3	e2.1	3.5	e4.0	e1.2	e6.5	34	36	44	32	44	21	10
4	e2.2	3.5	e3.8	e1.8	e9.0	37	34	68	74	43	21	9.9
5	e2.7	3.5	e3.8	e2.2	e9.5	41	36	50	129	40	20	9.5
6	e2.4	37	e3.8	e2.5	e40	39	39	48	277	37	19	15
7	e2.3	17	e3.7	e3.0	e45	41	35	39	83	35	18	36
8	e2.4	5.9	e3.7	e3.3	e110	54	32	36	63	34	18	62
9	e2.5	5.1	3.6	e4.0	e100	82	33	38	55	33	17	14
10	e2.6	4.8	e3.5	e4.7	e69	92	33	41	73	32	16	12
11	e2.7	4.8	e2.5	e5.5	e55	109	67	137	53	33	15	11
12	e2.8	5.0	e2.0	e5.7	e49	e175	52	46	45	53	15	11
13	e3.0	4.6	e2.5	e16	e44	e120	44	41	41	28	15	10
14	e3.0	4.6	e2.5	e40	e36	98	44	37	708	26	14	10
15	e2.9	4.4	e2.5	e20	e31	85	53	34	126	25	16	183
16	e2.8	e4.5	e3.0	e10	e27	73	41	32	75	25	15	30
17	e3.0	e4.1	e2.5	e7.0	e24	70	39	30	63	24	15	38
18	2.9	e4.3	e2.5	e6.5	e24	63	38	30	54	23	15	26
19	3.0	e4.3	e2.3	e4.5	e25	58	38	28	69	68	13	24
20	3.0	e4.3	e2.3	e4.5	e29	53	39	28	356	29	13	18
21	3.2	e3.6	e2.3	e5.0	e29	50	40	30	567	24	13	16
22	3.8	e3.8	e2.0	e5.0	e23	71	38	27	113	23	12	15
23	4.2	e4.1	e2.0	e7.0	22	59	37	25	84	22	13	18
24	3.5	e4.3	e1.9	e5.0	781	50	32	26	72	22	15	15
25	4.0	4.5	e1.7	e4.5	402	44	30	27	62	79	19	14
26	3.8	4.3	e1.7	e5.0	142	40	29	25	57	27	13	14
27	3.5	e4.5	e1.7	e6.0	70	39	28	24	53	26	12	14
28	3.4	4.6	e1.6	e7.0	64	38	27	23	50	207	11	13
29	3.7	4.4	e2.0	e15	---	37	26	22	48	43	11	12
30	4.5	e4.1	e1.9	e25	---	41	27	46	45	31	11	13
31	3.8	---	e1.8	e20	---	52	---	38	---	27	10	---
MEAN	3.02	5.93	2.68	8.06	81.4	62.0	37.7	37.8	119	40.5	15.5	23.1
MAX	4.5	37	4.1	40	781	175	67	137	708	207	24	183
MIN	2.0	3.5	1.6	1.2	6.5	34	26	22	26	22	10	9.5

SUMMARY STATISTICS FOR 2001 WATER YEAR

ANNUAL MEAN	36.0	
HIGHEST DAILY MEAN	781	Feb 24
LOWEST DAILY MEAN	1.2	Jan 3
ANNUAL SEVEN-DAY MINIMUM	1.7	Dec 28
MAXIMUM PEAK FLOW	2630	Jun 14
MAXIMUM PEAK STAGE	20.06	Jun 14
INSTANTANEOUS LOW FLOW	2.6[a]	Oct 20
10 PERCENT EXCEEDS	68	
50 PERCENT EXCEEDS	23	
90 PERCENT EXCEEDS	2.7	

e Estimated
[a] Minimum recorded, may have been less during period of ice effect, Dec. 11 to Jan. 8.

06817700 NODAWAY RIVER NEAR GRAHAM, MO

LOCATION.--Lat 40°12'08", long 95°04'07", in NE $^1/_4$ NE $^1/_4$ NE $^1/_4$ sec.9, T.62 N., R.37 W., Holt County, Hydrologic Unit 10240010, at right downstream end of bridge on Highway A, 0.15 mi east of Maitland, and 1.5 mi west of Graham.

DRAINAGE AREA.--1,380 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1982 to current year.

REVISED RECORDS.--WDR MO-94-1: 1993 peak, September monthly and yearly mean discharge.

GAGE.--Water-stage recorder. Datum of gage is 852.09 ft above sea level.

REMARKS.--Water-discharge records fair except for period May through September and estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	89	e70	e65	e240	3220	1020	405	3700	e670	248	e84
2	30	90	e65	e55	e190	3740	997	563	2790	e630	225	e82
3	28	99	e58	e50	e200	1520	897	487	2610	e614	213	e79
4	27	89	e52	e50	e200	1170	824	2070	1850	693	194	e78
5	35	81	e43	e55	e200	1890	886	4550	2370	676	e177	76
6	48	136	e40	e60	e260	1780	1940	4730	7110	588	e156	89
7	59	244	e50	e65	e300	1520	1260	2970	3460	526	e144	167
8	51	227	e60	e70	544	1250	1010	1940	2180	481	e135	379
9	45	167	e68	e80	1030	1160	1360	1480	1630	441	e126	562
10	43	137	e65	e90	815	1340	1260	3350	1670	414	e118	660
11	37	122	e48	e105	672	2290	2440	7310	1660	406	e113	306
12	34	115	e42	e135	629	5800	6490	2950	1240	431	e109	182
13	36	104	e42	e160	573	7990	3710	1900	980	375	e106	120
14	50	97	e44	e185	576	8400	2040	6130	8540	359	e104	64
15	56	88	e48	e210	592	9580	1890	3380	4430	329	e105	113
16	51	84	e54	e200	587	5650	1680	2010	2060	301	e107	e130
17	50	59	e60	e185	519	3880	1190	4510	1430	287	e108	e200
18	45	e55	e72	e180	432	2780	964	2180	1230	283	e109	e160
19	43	e60	e88	e180	393	2630	860	1370	1200	605	e105	e240
20	45	55	e92	e145	420	2680	814	1110	2600	522	e99	e180
21	40	e57	e92	e160	426	4700	773	1360	7270	403	e94	e160
22	40	e63	e86	e165	399	4690	720	2200	2650	323	e90	e130
23	46	e65	e75	e170	386	3170	713	1380	1610	301	e96	e195
24	53	e65	e75	e160	3920	3250	632	1080	1250	277	e109	e170
25	55	e73	e75	e155	11300	2300	576	984	1080	458	e114	e130
26	56	e73	e75	e150	6570	1470	519	946	961	862	e112	e100
27	54	69	e70	e145	3890	1160	484	897	880	366	e108	e90
28	51	e75	e66	e145	2110	1040	454	879	822	1090	e102	e82
29	51	e80	e68	e180	---	990	416	837	e750	932	e95	e77
30	65	e75	e72	e225	---	965	384	974	e705	409	e91	e72
31	75	---	e65	e260	---	998	---	2060	---	292	e86	---
MEAN	46.2	96.4	63.9	137	1370	3065	1307	2226	2424	495	126	172
MAX	75	244	92	260	11300	9580	6490	7310	8540	1090	248	660
MIN	27	55	40	50	190	965	384	405	705	277	86	64
IN.	.04	.08	.05	.11	1.03	2.56	1.06	1.86	1.96	.41	.11	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2001, BY WATER YEAR (WY)

MEAN	410	491	512	355	783	1117	1539	2001	1816	1597	560	679
MAX	2313	1735	2026	1199	1839	3155	3614	4606	4936	12460	2758	3364
(WY)	1987	1993	1993	1983	1983	1998	1984	1995	1984	1993	1987	1993
MIN	46.2	77.1	63.9	57.8	82.2	128	58.8	48.6	68.5	75.1	46.2	47.6
(WY)	2001	1989	2001	2000	1989	2000	1989	1989	1988	1988	1988	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1983 - 2001	
ANNUAL MEAN	180		957		973	
HIGHEST ANNUAL MEAN					2870	1993
LOWEST ANNUAL MEAN					186	2000
HIGHEST DAILY MEAN	4450	Jun 26	11300	Feb 25	52000	Jul 23 1993
LOWEST DAILY MEAN	26	Jun 11,Sep 15	27	Oct 4	26	Jun 11 2000
ANNUAL SEVEN-DAY MINIMUM	29	Sep 13	37	Oct 1	29	Sep 13 2000
MAXIMUM PEAK FLOW	---		20700	Jun 14	78300	Jul 23 1993
MAXIMUM PEAK STAGE	---		16.21	Jun 14	26.16	Jul 23 1993
INSTANTANEOUS LOW FLOW	---		24	Oct 4	23	Sep 9 1985
ANNUAL RUNOFF (INCHES)	1.78		9.41		9.58	
10 PERCENT EXCEEDS	315		2660		2310	
50 PERCENT EXCEEDS	76		244		400	
90 PERCENT EXCEEDS	43		54		72	

e Estimated

06817700 NODAWAY RIVER NEAR GRAHAM, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1989 to October 1989, November 1992 to current year.

REMARKS.--This site replaced Nodaway River near Oregon, Missouri (06817800).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
07...	1210	ENVIRONMENTAL	253	11.5	98	8.1	357	7.0	157	44.1	11.4	4.78
MAR												
22...	1115	ENVIRONMENTAL	4680	11.8	101	7.9	235	7.5	--	--	--	--
APR												
10...	1025	ENVIRONMENTAL	1090	8.0	82	8.0	291	14.5	--	--	--	--
MAY												
08...	1145	ENVIRONMENTAL	1880	9.3	101	8.1	347	18.0	145	40.6	10.6	4.02
JUN												
20...	1255	ENVIRONMENTAL	2290	7.7	83	8.0	311	18.0	--	--	--	--
JUL												
17...	1420	ENVIRONMENTAL	269	16.3	225	9.1	383	30.5	--	--	--	--
AUG												
15...	1325	ENVIRONMENTAL	102	9.6	116	8.5	431	23.0	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
07...	9.9	142	142	174	0	10.1	.3	26.9	304	226	.499	3.0	1.65
MAR													
22...	--	81	79	96	0	--	--	--	--	--	.430	5.2	4.21
APR													
10...	--	108	109	133	0	--	--	--	--	--	E.235	3.1	2.53
MAY													
08...	9.1	109	108	132	0	9.2	.3	20.5	357	228	<.041	2.1	7.55
JUN													
20...	--	116	116	142	0	--	--	--	--	--	E.025	1.1	2.44
JUL													
17...	--	152	153	143	22	--	--	--	--	--	<.040	1.2	2.65
AUG													
15...	--	178	178	207	6	--	--	--	--	--	<.040	.60	<.050

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
07...	.022	.140	.126	.495	16	E45000	E35000	E48000	19	3310	--	<8.00	.20
MAR													
22...	.035	.125	.099	3.19	--	--	E650	16000	--	--	--	--	--
APR													
10...	.027	.137	.121	1.34	--	--	E5800	1900	--	--	--	--	--
MAY													
08...	.036	.202	.177	.960	24	E500	E6700	2600	5	5460	2.3	<8.00	.27
JUN													
20...	.017	.120	.095	.785	--	--	E400	E26000	--	--	--	--	--
JUL													
17...	.061	E.048	.040	.199	--	E2	E2	44	--	--	--	--	--
AUG													
15...	<.006	.061	.064	.145	--	E43	230	200	--	--	--	--	--

06817700 NODAWAY RIVER NEAR GRAHAM, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)
NOV													
07...	<4.7	<10	.11	6	52.5	<.14	<20	E20	<.002	.258	<.002	<.005	.289
MAR													
22...	--	--	--	--	--	--	--	--	<.002	<.004	.008	<.005	.060
APR													
10...	--	--	--	--	--	--	--	--	<.002	<.004	<.002	<.005	.110
MAY													
08...	<4.7	<10	<.08	11	<3.2	.02	<1	35	<.002	.493	.025	<.005	3.83
JUN													
20...	--	--	--	--	--	--	--	--	<.002	.276	.042	<.005	1.74
JUL													
17...	--	--	--	--	--	--	--	--	<.002	<.010	<.002	<.005	.317
AUG													
15...	--	--	--	--	--	--	--	--	<.002	<.010	<.002	<.005	.248

DATE	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL-ATE, WATER, DISS, REC (µg/L) (04028)	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (µg/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)	DI-ELDRIN DIS-SOLVED (µg/L) (39381)	DISUL-FOTON WATER FLTRD 0.7µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7µ GF, REC (µg/L) (82663)
NOV													
07...	<.010	<.002	<.041	<.020	<.005	E.012	<.003	E.040	<.005	<.005	<.021	<.002	<.009
MAR													
22...	<.010	E.009	<.041	<.020	<.005	<.018	<.003	E.041	<.005	<.005	<.021	<.002	<.009
APR													
10...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.033	E.004	<.005	<.021	<.002	<.009
MAY													
08...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.155	<.005	<.005	<.021	<.002	<.009
JUN													
20...	<.010	<.002	<.041	E.020	<.005	E.007	<.003	E.309	<.005	<.005	<.021	<.002	<.009
JUL													
17...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.080	<.005	<.005	<.021	<.002	<.009
AUG													
15...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.031	<.005	<.005	<.021	<.002	<.009

DATE	ETHO-PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS-SOLVED (µg/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA-THION, DIS-SOLVED (µg/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA-THION, DIS-SOLVED (µg/L) (39542)
NOV													
07...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.169	<.006	<.002	<.007	<.003	<.007
MAR													
22...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.043	<.006	<.002	<.007	<.003	<.007
APR													
10...	<.005	<.003	<.004	<.035	<.027	<.050	.163	.356	<.006	<.002	<.007	<.003	<.007
MAY													
08...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.658	.039	<.002	<.007	<.003	<.007
JUN													
20...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.481	.021	<.002	<.007	<.003	<.007
JUL													
17...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.043	<.006	<.002	<.007	<.003	<.007
AUG													
15...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.028	<.006	<.002	<.007	<.003	<.007

06817700 NODAWAY RIVER NEAR GRAHAM, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PEBULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDIMETHALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PERMETHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PROMETON, WATER, DISS, REC (µg/L) (04037)	PRONAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPACHLOR, WATER, DISS, REC (µg/L) (04024)	PROPANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PROPARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SIMAZINE, WATER, DISS, REC (µg/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TERBACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TERBUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)
NOV													
07...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.045	<.016	<.034	<.017
MAR													
22...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
APR													
10...	<.002	<.010	<.006	<.011	E.003	<.004	<.010	<.011	<.023	.013	<.016	<.034	<.017
MAY													
08...	<.002	E.006	<.006	<.011	E.004	<.004	<.010	<.011	<.023	E.009	E.006	<.034	<.017
JUN													
20...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.015	<.016	<.034	<.017
JUL													
17...	<.002	<.010	<.006	<.011	E.008	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
AUG													
15...	<.002	<.010	<.006	<.011	.002	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017

DATE	THIOBENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIALLATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRIFLURALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)
NOV			
07...	<.005	<.002	<.009
MAR			
22...	<.005	<.002	<.009
APR			
10...	<.005	<.002	<.009
MAY			
08...	<.005	<.002	<.009
JUN			
20...	<.005	<.002	<.009
JUL			
17...	<.005	<.002	<.009
AUG			
15...	<.005	<.002	<.009

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

06818000 MISSOURI RIVER AT ST. JOSEPH, MO

LOCATION.--Lat 39°45'12", long 94°51'28", in NW $^1/_4$ SW $^1/_4$ sec.17, T.57 N., R.35 W., Buchanan County, Hydrologic Unit 10240011, on left bank at left abutment of St. Joseph and Grand Island Railroad Bridge in St. Joseph, and at mile 448.2.

DRAINAGE AREA.--420,300 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to current year. Gage-height records collected in vicinity 1873-99 are contained in reports of the Missouri River Commission; since 1900 in reports of the National Weather Service.

REVISED RECORDS.--WDR MO-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 788.19 ft above sea level. Prior to Oct. 21, 1931, nonrecording gage and from Oct. 21, 1931, to Dec. 31, 1933, water-stage recorder at same site at datum 5.50 ft higher.

REMARKS.--Water-discharge records good. Some regulation from many upstream reservoirs. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 397,000 ft^3/s, Apr. 22, 1952; maximum gage-height, 32.07 ft; July 26, 1993; minimum discharge, 2,300 ft^3/s, Jan. 9, 1937.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 29, 1881, reached a stage of 27.2 ft, present datum, discharge, about 370,000 ft^3/s, computed by the U.S. Army Corps of Engineers. Flood of June 1844 reached a stage of 24.5 ft, discharge, about 350,000 ft^3/s, computed by the U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38600	43600	32700	23400	22200	31700	47000	76000	66400	41900	41600	34800
2	38800	43700	30100	23200	22700	30500	46700	73100	61600	40600	40100	35000
3	38800	43100	27800	22900	22500	29900	46700	73500	56600	40200	39400	34200
4	39500	43000	27200	23200	21600	29500	48800	84300	67400	41800	38600	33800
5	40000	42000	26800	23400	21500	31400	48900	99200	69600	45800	38500	33900
6	40300	42900	25100	23600	22400	36600	47800	126000	89100	45000	38000	34300
7	40600	45500	24100	23800	22200	39000	48600	119000	69400	41800	37200	34200
8	40900	45800	24100	23900	24200	38000	49300	103000	59400	40600	37000	35600
9	41000	44600	22900	23600	27600	37900	51500	93300	54700	40000	36000	40700
10	40900	42600	22600	23600	25800	40500	55300	85000	52100	39400	34900	38800
11	40400	40900	24300	24000	24400	43200	57600	91100	52400	40000	34500	36900
12	39600	39800	24300	24300	23800	59300	68800	86800	52800	47700	34300	36200
13	39600	39100	21500	24400	23400	70600	68700	78700	51700	49900	34300	35900
14	39900	38500	19700	25000	22900	68400	70600	75600	61300	40500	34400	35300
15	40300	37900	18100	25700	23000	68500	68600	73100	89300	38900	34300	36200
16	40100	38500	16500	26100	24000	77200	69400	67700	84000	38100	35300	41800
17	40400	37500	16400	25800	23800	76000	71700	65800	69200	37700	37600	52800
18	40600	37600	18400	25500	22800	62900	73500	62500	61900	37000	37300	54900
19	40400	38000	20200	25100	21900	59200	72800	58500	61300	54300	37400	46700
20	40400	37800	20400	24500	22600	54200	69800	56200	67200	66200	37400	42600
21	40300	38100	19100	23800	24200	54800	67100	64100	82900	47700	36900	39900
22	40300	38400	18000	22600	24800	58700	62300	69600	70100	43800	36600	38000
23	40500	37800	18700	22000	24500	67200	60300	62600	58700	41700	36300	39600
24	40700	38000	20000	21200	38800	67200	59000	55700	53100	39800	36400	40400
25	41300	38500	20900	21100	67400	62000	59200	52600	48900	40000	37700	38000
26	41700	38400	21800	22100	50800	55700	66300	51300	46800	41700	36600	36300
27	41100	37900	22200	22400	43300	50800	70800	49900	45000	40500	36100	34900
28	40800	36500	23000	22300	36000	47400	73900	48500	43400	51800	35400	34800
29	41100	35600	23400	22600	---	46600	77500	47200	42300	58500	35300	34800
30	41100	34400	23200	22700	---	46500	78200	49400	42100	47200	34700	35300
31	41500	---	23300	22200	---	46800	---	68600	---	44600	34400	---
MEAN	40370	39870	22480	23550	27680	51230	61890	73160	61020	44020	36600	38220
MAX	41700	45800	32700	26100	67400	77200	78200	126000	89300	66200	41600	54900
MIN	38600	34400	16400	21100	21500	29500	46700	47200	42100	37000	34300	33800
IN.	.11	.11	.06	.06	.07	.14	.16	.20	.16	.12	.10	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2001[a], BY WATER YEAR (WY)

MEAN	48560	45520	31080	25710	32400	46380	57480	58930	62600	57310	48910	49480
MAX	87650	85040	61820	45740	60570	96800	113600	106600	144700	195400	83050	79160
(WY)	1987	1998	1987	1973	1983	1979	1984	1997	1984	1993	1996	1997
MIN	30290	18510	11560	12210	15790	19490	32920	36390	35620	34230	33520	34260
(WY)	1962	1991	1964	1959	1964	1964	1990	1958	1958	1963	1991	1963

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1958 - 2001[a]	
ANNUAL MEAN	38500		43390		47070	
HIGHEST ANNUAL MEAN					76050	1997
LOWEST ANNUAL MEAN					30960	1963
HIGHEST DAILY MEAN	76000	Jun 27	126000	May 6	328000	Jul 26 1993
LOWEST DAILY MEAN	16400	Dec 17	16400	Dec 17	4000	Jan 17 1963
ANNUAL SEVEN-DAY MINIMUM	18400	Dec 16	18400	Dec 16	5030	Dec 15 1963
MAXIMUM PEAK FLOW	---		132000	May 6	335000	Jul 26 1993
MAXIMUM PEAK STAGE	---		21.14	May 6	32.07	Jul 26 1993
INSTANTANEOUS LOW FLOW	---		16000	Dec 16,17	4000	Jan 17 1963
ANNUAL RUNOFF (INCHES)	1.25		1.40		1.52	
10 PERCENT EXCEEDS	45600		69300		73600	
50 PERCENT EXCEEDS	39600		40000		42300	
90 PERCENT EXCEEDS	30100		22900		22100	

[a] Post-regulation period.

06818000 MISSOURI RIVER AT ST. JOSEPH, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1969 to July 1992, November 1992 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May 1984 to December 1984, July 1985 to September 1985, April 1986 to September 1986.
DISSOLVED OXYGEN: May 1984 to November 1984, July 1985 to September 1985, April 1986 to September 1986.

INSTRUMENTATION.--Water-quality monitor, May 1984 to December 1984, July 1985 to September 1985, April 1986 to September 1986.

REMARKS.--National Stream-Quality Accounting Network station October 1974 to September 1986. Ambient Water-Quality Monitoring Network station October 1969 July 1992, November 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT												
18...	1040	ENVIRONMENTAL	40700	9.6	95	8.5	817	15.0	--	--	--	--
NOV												
08...	1045	ENVIRONMENTAL	45900	10.0	92	8.2	728	10.0	230	57.7	21.9	5.70
DEC												
14...	1030	ENVIRONMENTAL	19800	13.2	92	8.4	904	.5	--	--	--	--
JAN												
18...	1015	ENVIRONMENTAL	25500	12.5	92	8.2	809	1.5	250	63.8	22.5	6.33
FEB												
28...	1120	ENVIRONMENTAL	36100	11.7	82	8.1	531	.5	--	--	--	--
MAR												
20...	1040	ENVIRONMENTAL	53800	10.2	81	7.8	492	4.5	--	--	--	--
APR												
12...	0915	ENVIRONMENTAL	69700	7.6	74	8.0	501	12.5	--	--	--	--
MAY												
10...	1035	ENVIRONMENTAL	84600	6.2	68	8.1	612	18.5	240	59.8	21.3	9.45
JUN												
22...	1015	ENVIRONMENTAL	70500	6.5	76	8.0	547	22.0	--	--	--	--
JUL												
19...	1115	ENVIRONMENTAL	44100	6.1	79	8.2	759	27.0	260	65.7	23.7	7.01
AUG												
16...	1115	ENVIRONMENTAL	35000	7.5	95	8.4	834	26.0	--	--	--	--
SEP												
04...	1030	ENVIRONMENTAL	33700	7.4	95	8.5	849	26.5	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT													
18...	--	176	176	212	1	--	--	--	--	--	<.041	.77	.177
NOV													
08...	62.7	174	174	212	0	17.4	.5	185	142	482	E.030	1.1	.514
DEC													
14...	--	224	224	267	3	--	--	--	--	--	.241	.65	.805
JAN													
18...	68.0	197	196	239	0	30.4	.6	170	37	516	.191	.77	1.13
FEB													
28...	--	126	122	149	0	--	--	--	--	--	.432	2.1	1.54
MAR													
20...	--	148	148	181	0	--	--	--	--	--	.657	4.1	1.99
APR													
12...	--	158	157	193	0	--	--	--	--	--	.080	3.4	2.70
MAY													
10...	27.4	178	182	223	0	15.6	.4	114	446	438	.053	3.0	3.52
JUN													
22...	--	161	160	196	0	--	--	--	--	--	.052	3.1	3.03
JUL													
19...	53.1	187	185	227	0	19.7	.4	176	648	488	E.021	2.3	1.52
AUG													
16...	--	172	172	202	4	--	--	--	--	--	<.040	1.0	.681
SEP													
04...	--	168	169	191	7	--	--	--	--	--	<.040	1.1	.248

MISSOURI RIVER MAIN STEM

06818000 MISSOURI RIVER AT ST. JOSEPH, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
18...	E.005	E.047	.027	.132	--	380	K420	30	--	--	--	--	--
NOV													
08...	.008	.067	.067	.274	11	K5700	K5200	--	E9	2080	--	<8.00	.15
DEC													
14...	.007	.066	.059	.127	--	1100	820	210	--	--	--	--	--
JAN													
18...	.013	.099	.100	.235	<10	1200	720	620	6	454	2.8	<8.00	<.11
FEB													
28...	.020	.145	.134	.671	--	K240	2200	K21000	--	--	--	--	--
MAR													
20...	.034	.180	.153	1.45	--	--	1200	10000	--	--	--	--	--
APR													
12...	.055	.160	.128	1.63	--	--	7300	4700	--	--	--	--	--
MAY													
10...	.076	.220	.209	1.21	42	--	15000	1500	5	7580	4.5	<8.00	.45
JUN													
22...	.063	.139	.132	1.12	--	14000	K3700	18000	--	--	--	--	--
JUL													
19...	.013	.129	.119	.706	23	K11	K11	K14000	6	6140	4.2	<8.00	.40
AUG													
16...	.007	.060	.058	.205	--	K4	K80	63	--	--	--	--	--
SEP													
04...	.007	E.053	.028	.196	--	K33	K50	K35	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
OCT								
18...	--	--	--	--	--	--	--	--
NOV								
08...	<4.7	<10	.09	5	<3.2	E.08	<20	E28
DEC								
14...	--	--	--	--	--	--	--	--
JAN								
18...	<4.7	<10	E.06	2	5.4	<.14	6	10
FEB								
28...	--	--	--	--	--	--	--	--
MAR								
20...	--	--	--	--	--	--	--	--
APR								
12...	--	--	--	--	--	--	--	--
MAY								
10...	E3.6	<10	<.08	14	<3.2	.04	1	54
JUN								
22...	--	--	--	--	--	--	--	--
JUL								
19...	<5.0	<10	<.08	13	<3.0	.03	<1	40
AUG								
16...	--	--	--	--	--	--	--	--
SEP								
04...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

06819500 ONE HUNDRED AND TWO RIVER AT MARYVILLE, MO

LOCATION.--Lat 40°20'45", long 94°49'56", in SW $^1/_4$ SW $^1/_4$ sec.15, T.64 N., R.35 W., Nodaway County, Hydrologic Unit 10240013, on right bank 150 ft upstream from bridge on U.S. Highway 136, 0.3 mi downstream from Thill Branch, 1 mi east of Maryville, and at mile 64.0.

DRAINAGE AREA.--515 mi^2.

PERIOD OF RECORD.--October 1932 to September 1990, March 22, 2001 to current year. April to June 1934 monthly discharge only published in WSP 1310. June 1934 to October 1971 published as "near Maryville".

GAGE.--Water-stage recorder. Datum of gage is 954.65 ft above sea level. Nonrecording gage prior to Sept. 15, 1958. Prior to June 20, 1934, at site 20 ft upstream and datum 10 ft higher. June 20, 1934 to July 19, 1971, at site 3 mi upstream at datum 15.68 ft higher. July 20, 1971 to September 1990, at site 20 ft upstream and datum 10 ft higher.

REMARKS.--Records good except for discharges above 5,000 ft^3/s and estimated daily discharges, which are poor. Some regulation at low flow by City Waterworks. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 16, 1926 reached a stage of 25 ft, present datum from floodmark; discharge, 14,500 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	328	154	508	137	73	9.4
2	---	---	---	---	---	---	257	221	513	126	57	9.9
3	---	---	---	---	---	---	226	193	372	122	47	9.2
4	---	---	---	---	---	---	215	2720	356	129	41	8.8
5	---	---	---	---	---	---	567	1720	3000	110	36	8.5
6	---	---	---	---	---	---	1150	1690	2300	95	32	24
7	---	---	---	---	---	---	484	914	709	88	29	45
8	---	---	---	---	---	---	307	524	423	82	26	199
9	---	---	---	---	---	---	2040	420	312	76	23	114
10	---	---	---	---	---	---	760	2840	281	70	20	69
11	---	---	---	---	---	---	2930	2330	246	67	18	39
12	---	---	---	---	---	---	2320	755	196	64	17	25
13	---	---	---	---	---	---	770	1120	169	60	16	19
14	---	---	---	---	---	---	508	2140	e6450	57	15	16
15	---	---	---	---	---	---	1280	622	e3660	51	17	38
16	---	---	---	---	---	---	824	399	e891	48	18	34
17	---	---	---	---	---	---	454	1380	e533	46	16	54
18	---	---	---	---	---	---	356	506	e745	46	16	42
19	---	---	---	---	---	---	313	313	704	91	20	37
20	---	---	---	---	---	---	281	251	808	84	17	24
21	---	---	---	---	---	---	254	272	3400	75	14	18
22	---	---	---	---	---	e1200	227	241	1010	54	14	16
23	---	---	---	---	---	e1060	216	193	520	45	13	19
24	---	---	---	---	---	e788	198	179	381	41	14	47
25	---	---	---	---	---	e496	175	174	299	730	18	25
26	---	---	---	---	---	e372	164	163	244	260	12	18
27	---	---	---	---	---	321	155	155	212	109	12	15
28	---	---	---	---	---	300	143	307	187	1890	11	13
29	---	---	---	---	---	288	134	217	168	327	10	12
30	---	---	---	---	---	280	127	224	153	139	10	11
31	---	---	---	---	---	297	---	913	---	98	9.8	---
MEAN	---	---	---	---	---	540	605	782	992	175	22.3	34.0
MAX	---	---	---	---	---	1200	2930	2840	6450	1890	73	199
MIN	---	---	---	---	---	280	127	154	153	41	9.8	8.5
IN.	---	---	---	---	---	.39	1.31	1.75	2.15	.39	.05	.07

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	149	118	82.1	102	234	419	340	417	486	219	132	166
MAX	1897	945	818	1186	1240	1874	1655	2242	3187	1452	992	1312
(WY)	1974	1942	1983	1960	1973	1979	1984	1982	1947	1986	1982	1977
MIN	.046	.59	1.12	.11	2.09	3.42	.74	.11	5.18	.50	.18	.026
(WY)	1989	1989	1989	1977	1989	1954	1956	1989	1988	1989	1988	1988

SUMMARY STATISTICS	FOR PERIOD MAR-SEP 2001		FOR PERIOD OF RECORD	
ANNUAL MEAN			237	
HIGHEST ANNUAL MEAN			658	1982
LOWEST ANNUAL MEAN			18.6	1934
HIGHEST DAILY MEAN	6450	Jun 14	25500	Oct 12 1973
LOWEST DAILY MEAN	8.5	Sep 5	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	9.4	Aug 30	.00	1977,1988
MAXIMUM PEAK FLOW	12800	Jun 14	28000	Oct 12 1973
MAXIMUM PEAK STAGE	17.35	Jun 14	19.25[a]	Oct 12 1973
INSTANTANEOUS LOW FLOW	8.0	Sep 6	.00	Several Years
ANNUAL RUNOFF (INCHES)	---		6.27	
10 PERCENT EXCEEDS	1140		479	
50 PERCENT EXCEEDS	168		30	
90 PERCENT EXCEEDS	15		2.6	

e Estimated
[a] Former datum.

06820500 PLATTE RIVER NEAR AGENCY, MO

LOCATION.--Lat 39°41'20", long 94°42'15", in NE $^1/_4$ NW $^1/_4$ sec.10, T.56 N., R.34 W., Buchanan County, Hydrologic Unit 10240012, on left bank 10 ft downstream from bridge of U.S. Highway 169, 1.5 mi downstream from Third Fork, 3.5 mi northeast of Agency, and at mile 66.8.

DRAINAGE AREA.--1,760 mi^2, approximately.

PERIOD OF RECORD.--May 1924 to August 1930, published as "at Agency", May 1932 to current year.

GAGE.--Water-stage recorder. Datum of gage is 807.38 ft above sea level. May 22, 1924, to Aug. 9, 1930, nonrecording gage at site 4 mi downstream at different datum; May 13, 1932, to Nov. 14, 1965, nonrecording gage at same site and datum; Nov. 15, 1965, to Oct. 25, 1989, water-stage recorder at site 150 ft upstream at present datum.

REMARKS.--Records good except for the month of August which is fair, and estimated daily discharges, which are poor. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	197	e80	e37	720	e3000	1100	450	1900	621	665	141
2	36	699	e74	e36	531	e2200	1160	440	1850	573	491	132
3	32	279	77	e37	e560	e2050	1040	551	1720	534	401	125
4	29	139	e75	e39	e570	e2000	909	1380	7820	1420	342	117
5	71	128	73	e40	571	e2400	842	6240	5760	879	298	113
6	59	940	72	e40	1460	e2300	1620	4690	13600	559	257	114
7	47	1780	e75	e44	1150	1900	2930	3850	11700	475	241	126
8	43	696	78	e48	988	1590	1540	2590	3230	419	230	148
9	44	525	78	e50	3130	1440	2710	1880	1680	384	219	238
10	49	330	77	e55	1890	1530	5300	1400	1280	359	205	424
11	44	248	72	e55	1210	2160	3620	8630	1050	359	190	338
12	39	204	e64	e57	981	5370	8110	6150	922	2070	173	262
13	36	172	e54	e70	888	8870	4560	2480	767	1050	161	203
14	37	150	e48	e130	e1100	8680	2260	3770	3180	474	155	176
15	47	133	e42	e240	e975	9300	1720	4060	15400	371	153	191
16	38	128	e40	e380	e770	8410	2800	1960	13200	329	154	283
17	39	109	e38	e430	657	5400	2210	2280	4090	302	164	761
18	39	100	e38	e460	628	3770	1370	3420	1770	283	159	760
19	41	98	e40	e410	655	3280	1100	1730	2950	3200	142	1490
20	39	90	e40	e380	e970	3370	964	1140	6960	852	136	568
21	36	e86	e42	e360	e810	4180	2660	1190	14200	530	130	516
22	39	e85	e42	e330	726	4440	1370	885	14000	439	127	298
23	58	e85	e40	e290	650	3820	1110	811	4770	400	128	993
24	64	90	e38	e260	7540	3260	882	697	1950	354	136	476
25	76	94	e37	e220	16600	2470	771	641	1410	1430	1020	296
26	57	96	e37	e200	16100	1770	687	598	1130	2440	368	272
27	52	91	e38	e170	11700	1370	620	571	965	1310	221	244
28	49	86	e39	e175	e4330	1190	563	536	844	7440	195	223
29	53	86	e40	e800	---	1130	517	546	749	6010	163	208
30	68	83	e40	2780	---	1100	471	756	677	1600	156	196
31	55	---	e38	1220	---	1070	---	1170	---	913	149	---
MEAN	47.0	268	53.7	318	2816	3381	1917	2177	4717	1238	249	348
MAX	76	1780	80	2780	16600	9300	8110	8630	15400	7440	1020	1490
MIN	29	83	37	36	531	1070	471	440	677	283	127	113
IN.	.03	.17	.04	.21	1.67	2.22	1.22	1.43	2.99	.81	.16	.22

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	650	561	378	379	851	1375	1524	1667	2038	1194	451	889
MAX	8584	4620	3248	3714	4912	6345	6835	10020	13640	21280	2935	7853
(WY)	1974	1962	1983	1974	1973	1979	1973	1995	1947	1993	1987	1926
MIN	.016	6.14	5.59	2.72	14.0	12.7	9.89	26.9	41.7	10.2	2.62	6.76
(WY)	1957	1956	1939	1940	1940	1938	1956	1956	1988	1936	1934	1955

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	292		1446		997	
HIGHEST ANNUAL MEAN					4108	1993
LOWEST ANNUAL MEAN					67.4	1934
HIGHEST DAILY MEAN	11900	Jun 25	16600	Feb 25	57500	Jul 25 1993
LOWEST DAILY MEAN	20	Sep 19	29	Oct 4	.00	At Times
ANNUAL SEVEN-DAY MINIMUM	24	Sep 15	38	Dec 28	.00	At Times
MAXIMUM PEAK FLOW	---		17200	Feb 25	60800	Jul 25 1993
MAXIMUM PEAK STAGE	---		25.55	Feb 25	36.07	Jul 25 1993
INSTANTANEOUS LOW FLOW	---		28	Oct 4	.00	At Times
ANNUAL RUNOFF (INCHES)	2.26		11.15		7.69	
10 PERCENT EXCEEDS	404		3790		2140	
50 PERCENT EXCEEDS	79		476		200	
90 PERCENT EXCEEDS	38		42		24	

e Estimated

06821140 SMITHVILLE RESERVOIR NEAR SMITHVILLE, MO

LOCATION.--Lat 39°23'50", long 94°33'25", SW $^1/_4$ sec.13, T.53 N., R.33 W., Clay County, Hydrologic Unit 10240012, in control tower at outlet works on the Little Platte River, 1.0 mi northeast of Smithville, and 5.0 mi north of Kansas City.

DRAINAGE AREA.--213 mi^2.

PERIOD OF RECORD.--July 1981 to current year. Records collected at same site since 1976 and are available from the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is sea level.

REMARKS.--Lake is formed by a rolled earthfill type dam. Storage began on July 13, 1976. An uncontrolled limited service type spillway, 50 ft wide, is located at the right abutment. Capacity of surcharge pool 182,209 ac-ft (elevation 876.2 ft to 891.1 ft); of flood control pool 101,800 ac-ft (elevation 864.2 to 876.2 ft); and of multipurpose pool 144,600 ac-ft (elevation 799.0 ft to 864.2 ft). Lake is used for flood control, water supply, water-quality control, recreation, and fish and wildlife enhancement. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 225,000 ac-ft, July 28, 1993, maximum elevation 874.31 ft; minimum, 2,360 ac-ft, Jan. 13, 1980, elevation, 819.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 199,000 ac-ft, June 24, 25, elevation, 871.39 ft; minimum, 141,000 ac-ft, Sept. 16, elevation, 864.13 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	864.73	865.36	865.58	865.51	866.68	868.22	865.19	865.38	866.66	869.74	865.37	864.80
2	864.72	865.45	865.58	865.50	866.67	868.24	864.82	865.37	866.75	869.38	865.29	864.61
3	864.72	865.52	865.56	865.50	866.66	868.15	864.59	865.36	866.75	869.02	865.23	864.53
4	864.72	865.52	865.55	865.51	866.65	868.00	864.48	865.43	868.10	868.78	865.14	864.45
5	864.69	865.54	865.56	865.52	866.65	867.80	864.38	865.46	868.76	868.45	865.06	864.39
6	864.72	865.56	865.56	865.53	866.65	867.63	864.33	865.50	870.38	868.09	864.98	864.35
7	864.70	866.01	865.53	865.54	866.66	867.40	864.26	865.78	871.00	867.72	864.89	864.30
8	864.68	866.05	865.56	865.54	866.65	867.18	864.25	865.74	871.09	867.35	864.83	864.30
9	864.65	866.09	865.55	865.54	867.44	866.97	864.18	865.86	871.13	867.00	864.73	864.27
10	864.64	866.04	865.54	865.54	867.76	866.74	864.19	865.90	871.13	866.77	864.65	864.23
11	864.62	865.97	865.55	865.55	867.79	866.55	864.31	865.92	871.04	866.49	864.52	864.21
12	864.62	865.90	865.49	865.55	867.80	866.30	864.34	866.04	870.78	866.50	864.44	864.20
13	864.62	865.82	865.49	865.56	867.81	866.08	864.34	866.06	870.43	866.79	864.35	864.19
14	864.63	865.72	865.52	865.73	867.86	866.04	864.34	866.07	870.11	866.81	864.32	864.19
15	864.92	865.69	865.52	865.90	867.90	867.11	864.38	866.07	870.08	866.59	864.28	864.14
16	864.94	865.65	865.52	865.95	867.85	867.76	864.38	866.06	870.08	866.19	864.28	864.13
17	864.96	865.63	865.52	865.99	867.69	868.08	864.34	866.05	870.10	865.64	864.27	864.97
18	864.97	865.62	865.52	866.00	867.59	868.27	864.33	866.12	870.10	865.33	864.23	865.13
19	864.96	865.61	865.51	866.01	867.49	868.38	864.32	866.10	870.12	865.28	864.23	865.44
20	864.97	865.61	865.51	866.01	867.40	868.42	864.34	866.09	870.46	865.25	864.22	865.74
21	864.96	865.59	865.51	866.00	867.32	868.33	864.65	866.09	870.98	865.19	864.20	865.79
22	864.96	865.58	865.51	866.01	867.16	868.19	865.19	866.05	871.31	865.12	864.18	865.80
23	865.05	865.59	865.51	866.02	867.07	867.99	865.27	866.03	871.35	865.04	864.24	865.90
24	865.27	865.60	865.51	866.03	867.04	867.78	865.28	865.99	871.39	864.98	864.33	865.93
25	865.30	865.60	865.50	866.04	867.99	867.51	865.30	865.94	871.39	864.91	864.73	865.92
26	865.32	865.60	865.50	866.04	868.11	867.27	865.34	865.90	871.20	864.83	865.11	865.87
27	865.33	865.59	865.50	866.04	868.19	866.95	865.36	865.88	871.13	864.73	865.10	865.82
28	865.36	865.59	865.51	866.04	868.22	866.61	865.36	865.87	870.77	865.04	865.00	865.78
29	865.36	865.59	865.51	866.13	---	866.26	865.38	865.85	870.39	865.36	864.85	865.73
30	865.36	865.59	865.51	866.54	---	865.91	865.37	865.82	870.07	865.37	864.83	865.68
31	865.36	---	865.51	866.64	---	865.55	---	866.46	---	865.40	864.80	---
MEAN	864.93	865.68	865.53	865.84	867.38	867.34	864.69	865.88	870.17	866.42	864.67	864.96
MAX	865.36	866.09	865.58	866.64	868.22	868.42	865.38	866.46	871.39	869.74	865.37	865.93
MIN	864.62	865.36	865.49	865.50	866.65	865.55	864.18	865.36	866.66	864.73	864.18	864.13
(-)	150000	152000	151000	160000	172000	152000	150000	158000	187000	150000	146000	153000
(=)	+5000	+2000	-1000	+9000	+12000	-20000	-2000	+8000	+29000	-37000	-4000	+7000

CAL YR 2000....+23000
WTR YR 2001....+ 8000

(-) Contents, in acre-feet, at the end of the month.
(=) Change in contents, in acre-feet.

06821150 LITTLE PLATTE RIVER AT SMITHVILLE, MO

LOCATION.--Lat 39°23'17", long 94°34'44", in NW $^1/_4$ SW $^1/_4$ sec.23, T.53 N., R.33 W., Clay County, Hydrologic Unit 10240012, on left bank behind city equipment shelter on old bridge abutment, 500 ft upstream from town bridge in Smithville, 1,500 ft upstream from bridge on U.S. Highway 169, 0.5 mi downstream from Wilkerson Creek, 2.4 mi downstream from Smithville Lake, and at mile 11.1.

DRAINAGE AREA.--234 mi^2.

PERIOD OF RECORD.--June 1965 to current year. Occasional measurements 1942, 1943, 1946, 1962-65.

REVISED RECORDS.--WDR MO 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 778.18 ft above sea level (levels by the U.S. Army Corps of Engineers). Prior to Mar. 23, 1966, nonrecording gage at site 1,500 ft downstream at same datum.

REMARKS.--Records fair except for July to September and estimated daily discharges, which are poor. Construction of dam for Smithville Lake (station 06821140) began in June 1974 and partial regulation began Aug. 6, 1977. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,600 ft^3/s, July 20, 1965, gage height, 44.8 ft, from floodmark.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1947 reached a stage of 37.4 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	12	10	e7.6	87	23	1440	20	e40	1560	264	303
2	7.4	13	10	e7.6	141	430	1190	18	e117	1560	263	302
3	7.4	9.9	10	e7.3	146	982	768	23	e163	1550	262	302
4	7.3	9.5	10	e8.0	151	973	496	54	e921	1540	262	204
5	9.5	10	10	e8.0	156	945	367	29	e63	1520	260	102
6	8.3	182	9.9	e8.5	151	934	268	79	e769	1520	254	102
7	7.7	47	9.3	e8.5	149	930	270	73	e92	1520	249	104
8	7.2	17	8.3	e8.5	356	935	268	15	e40	1500	250	107
9	7.3	125	8.5	e8.8	803	933	178	14	e75	1490	257	108
10	7.3	295	8.5	e9.5	211	935	124	33	e571	1460	248	57
11	7.2	292	e8.5	e12	174	931	207	20	1270	1460	238	6.2
12	7.2	293	e8.1	11	180	930	e80	13	1620	e1190	238	5.9
13	7.2	271	e8.0	13	380	461	e60	11	1580	e58	111	6.7
14	13	218	e7.5	51	661	e73	e58	34	1120	716	8.2	7.4
15	31	216	e7.5	20	567	e885	e130	95	56	1720	7.9	8.8
16	10	118	e7.5	15	539	e314	e68	96	18	1580	8.1	18
17	8.4	10	e7.5	14	534	e126	e40	98	12	1360	8.0	e1130
18	7.7	10	e7.5	14	526	e62	e27	106	9.3	832	7.7	e65
19	7.6	11	e7.7	15	526	e155	e26	97	30	312	7.6	e64
20	7.7	11	e8.0	22	523	515	e24	99	e1330	262	7.4	27
21	7.9	10	e8.0	15	518	654	168	149	e495	256	7.1	18
22	8.2	11	e8.0	15	519	997	44	104	e24	253	7.8	13
23	230	11	e8.0	12	509	994	36	101	e13	249	108	103
24	24	11	e8.5	11	795	987	28	99	e18	252	17	118
25	13	11	e8.5	12	141	990	26	99	e739	244	156	211
26	11	11	e8.5	13	42	1230	24	95	1350	249	108	208
27	9.9	11	e8.3	12	32	1450	22	95	1610	254	395	206
28	8.9	11	e8.3	16	26	1440	21	98	1610	430	513	204
29	9.2	11	e8.0	215	---	1460	20	150	1590	170	511	203
30	9.9	11	e8.3	83	---	1450	20	e176	1570	22	520	203
31	9.8	---	e8.0	25	---	1440	---	e221	---	148	463	---
MEAN	17.0	76.0	8.47	22.5	341	825	217	77.9	631	879	194	151
MAX	230	295	10	215	803	1460	1440	221	1620	1720	520	1130
MIN	7.2	9.5	7.5	7.3	26	23	20	11	9.3	22	7.1	5.9
IN.	.08	.36	.04	.11	1.52	4.06	1.03	.38	3.01	4.33	.96	.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2001[a], BY WATER YEAR (WY)

MEAN	180	186	99.9	84.6	90.9	175	201	267	253	262	181	149
MAX	960	1358	466	563	341	825	640	850	809	879	1206	1006
(WY)	1986	1999	1993	1993	2001	2001	1978	1993	1995	2001	1993	1977
MIN	1.01	2.06	.052	.074	10.2	4.73	9.85	11.1	13.3	10.6	7.65	7.79
(WY)	1977	1977	1977	1977	1977	1981	1981	2000	1988	1980	1980	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1977 - 2001[a]	
ANNUAL MEAN	30.7		286		178	
HIGHEST ANNUAL MEAN					476	1993
LOWEST ANNUAL MEAN					35.4	1988
HIGHEST DAILY MEAN	538	Jun 20	1720	Jul 15	7810	Jul 27 1981
LOWEST DAILY MEAN	7.2	Oct 8,11-13	5.9	Sep 12	.05	Dec 1-25 1976
ANNUAL SEVEN-DAY MINIMUM	7.3	Oct 7	7.3	Oct 7	.05	Dec 1 1976
MAXIMUM PEAK FLOW	---		2850[b]	Jun 20	21000	Aug 13 1982
MAXIMUM PEAK STAGE	---		31.87	Sep 12	36.44	Aug 13 1982
INSTANTANEOUS LOW FLOW	---		5.0	Sep 12	.00	Many Years
ANNUAL RUNOFF (INCHES)	1.79		16.61		10.33	
10 PERCENT EXCEEDS	63		992		542	
50 PERCENT EXCEEDS	10		79		21	
90 PERCENT EXCEEDS	8.0		8.0		8.6	

[a] Post-regulation period.
[b] Occurred during period of backwater.

06821190 PLATTE RIVER AT SHARPS STATION, MO

LOCATION.--Lat 39°24'03", long 94°43'36", in NW $^1/_4$ SE $^1/_4$ SW $^1/_4$ sec.16, T.53 N., R.34 W., Platte County, Hydrologic Unit 10240012, on downstream side of center pier at Sharps Bridge, 0.2 mi upstream from Jowler Creek, 3.3 mi downstream from Little Platte River, 3.6 mi south of Camden Point, and at mile 25.1.

DRAINAGE AREA.--2,380 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1978 to current year.

GAGE.--Water-stage recorder. Datum of gage is 754.23 ft above sea level (levels by the U.S. Army Corps of Engineers).

REMARKS.--Water-discharge records fair except for the period Jan. 30 to Feb. 15, and estimated daily discharges, which are poor. Some regulation from Smithville Lake (station 06821140), 17.0 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	198	143	e56	2620	11400	2590	635	2120	2310	1330	610
2	75	1580	e125	e53	1650	3440	2530	600	2550	2210	1020	488
3	64	1250	e118	e51	1320	3180	2210	589	2270	2170	849	458
4	53	519	128	e54	1300	3130	1770	828	9280	2280	738	423
5	78	312	e118	e57	989	3360	1480	3460	11900	3460	664	261
6	146	918	e118	e58	925	3670	1210	6320	13100	2540	612	248
7	192	3460	116	e60	1700	3480	2670	5870	13600	2040	575	261
8	118	1960	e120	e60	1530	3070	2780	4010	14100	1910	547	309
9	85	907	127	e58	4780	2690	1740	2580	9980	1820	527	319
10	73	864	128	e58	e5450	2570	4680	1820	3140	1770	517	329
11	71	707	117	e66	3440	2790	5360	3160	2910	1770	495	429
12	76	635	78	e75	2610	4190	5710	9630	2900	6560	463	335
13	67	584	71	e140	2310	7940	8300	5850	2660	5480	427	261
14	153	488	e65	e350	2490	9510	4280	2520	2870	1730	232	191
15	678	447	e60	e750	2720	13300	2470	4930	7830	2090	203	180
16	217	415	e58	e850	1930	14000	2060	3480	10900	1980	249	605
17	117	242	e60	e800	1340	13300	3210	2010	12000	1650	287	8500
18	79	203	e62	e700	1130	8360	2110	4490	8840	1440	238	3650
19	68	189	e61	e600	1290	4940	1440	3520	3310	3090	239	2750
20	60	183	e63	560	1690	4620	1200	1720	13400	3850	201	2240
21	59	156	e60	467	2220	4740	3340	1430	14400	1400	205	919
22	55	143	e57	404	1500	5810	5030	1310	13700	930	179	744
23	337	e135	e53	321	1340	5830	2160	976	14200	781	578	1170
24	356	e130	e50	275	4070	5220	1610	850	12600	747	698	1820
25	211	e150	e53	238	11800	4470	1190	733	4560	686	3480	997
26	170	165	e48	212	13400	3650	1020	675	3340	2470	3400	710
27	141	164	e48	185	15700	3230	898	623	2980	3270	950	636
28	108	162	e51	183	17100	2870	806	586	2780	5410	803	583
29	91	150	e50	680	---	2750	729	546	2580	10500	715	538
30	98	142	e54	3940	---	2660	670	718	2430	7720	913	508
31	127	---	e56	4790	---	2600	---	1750	---	2290	869	---
MEAN	139	585	81.2	553	3941	5380	2575	2523	7441	2850	748	1049
MAX	678	3460	143	4790	17100	14000	8300	9630	14400	10500	3480	8500
MIN	53	130	48	51	925	2570	670	546	2120	686	179	180
IN.	.07	.27	.04	.27	1.72	2.61	1.21	1.22	3.49	1.38	.36	.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2001, BY WATER YEAR (WY)

MEAN	1240	1037	1085	607	1417	2197	2715	3469	3158	2972	1041	1365
MAX	6847	4932	5005	2153	3980	8745	6946	12710	10790	21600	3535	7206
(WY)	1986	1999	1993	1983	1982	1979	1993	1995	1984	1993	1987	1993
MIN	25.1	61.9	46.1	50.1	37.6	110	93.0	157	75.2	52.5	47.7	56.7
(WY)	1989	1989	1989	1989	1989	1989	1989	1989	1988	1988	1988	1991

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1979 - 2001	
ANNUAL MEAN	415		2302		1862	
HIGHEST ANNUAL MEAN					5697	1993
LOWEST ANNUAL MEAN					386	2000
HIGHEST DAILY MEAN	11100	Jun 26	17100	Feb 28	37300	Jul 26 1993
LOWEST DAILY MEAN	27	Sep 19	48	Dec 26,27	12	Aug 7,8,13,14 1989
ANNUAL SEVEN-DAY MINIMUM	31	Jan 27	50	Dec 23	14	Aug 7 1989
MAXIMUM PEAK FLOW	---		17400	Feb 28	37800	Jul 26 1993
MAXIMUM PEAK STAGE	---		30.46	Feb 28	36.43	Jul 26 1993
INSTANTANEOUS LOW FLOW	---		50[a]	Oct 4,5	12	Aug 7,8,13,14 1989
ANNUAL RUNOFF (INCHES)	2.37		13.14		10.63	
10 PERCENT EXCEEDS	892		5820		4550	
50 PERCENT EXCEEDS	146		918		657	
90 PERCENT EXCEEDS	51		70		75	

e Estimated
[a] Minimum recorded, may have been less during periods of ice effect, Dec. 14 to Jan. 10.

06821190 PLATTE RIVER AT SHARPS STATION, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1979 to September 1995, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
21...	1105	ENVIRONMENTAL	151	13.3	94.4	8.2	482	.5	360	98.0	28.1	4.75
JAN												
17...	1010	ENVIRONMENTAL	e800	12.8	90.4	8.1	395	.5	--	--	--	--
MAR												
23...	1015	ENVIRONMENTAL	5900	11.9	103	7.8	263	8.0	--	--	--	--
MAY												
11...	1240	ENVIRONMENTAL	1670	7.0	81.9	7.8	354	22.0	143	41.9	9.42	4.14
JUL												
20...	1035	ENVIRONMENTAL	4140	4.5	55.2	7.6	191	24.0	--	--	--	--
SEP												
05...	1220	ENVIRONMENTAL	256	8.2	101	8.2	395	24.5	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
21...	13.3	184	184	224	0	17.8	.3	29.2	15	293	.132	.59	2.42
JAN													
17...	--	114	114	139	0	--	--	--	--	--	.397	1.9	3.06
MAR													
23...	--	86	86	105	0	--	--	--	--	--	.166	2.5	3.16
MAY													
11...	11.7	120	121	147	0	11.8	.4	21.3	896	246	E.036	2.5	5.73
JUL													
20...	--	78	77	94	0	--	--	--	--	--	.045	3.9	.942
SEP													
05...	--	165	165	202	0	--	--	--	--	--	.100	1.0	.422

06821190 PLATTE RIVER AT SHARPS STATION, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
21...	.011	E.041	.046	.155	<10	100	100	160	5	145	1.1	<8.00	<.11
JAN													
17...	.025	.146	.107	.418	--	K850	1400	K12000	--	--	--	--	--
MAR													
23...	.026	.099	.078	1.16	--	--	K800	4000	--	--	--	--	--
MAY													
11...	.051	.153	.130	1.21	24	K800	980	4000	4	7120	2.5	<8.00	.38
JUL													
20...	.036	.084	.078	1.67	--	--	K4600	K19000	--	--	--	--	--
SEP													
05...	.015	.086	.035	.199	--	K130	120	110	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV								
21...	<4.7	<10	E.04	M	E1.8	<.14	3	3
JAN								
17...	--	--	--	--	--	--	--	--
MAR								
23...	--	--	--	--	--	--	--	--
MAY								
11...	E2.6	<10	<.08	15	5.7	.03	2	43
JUL								
20...	--	--	--	--	--	--	--	--
SEP								
05...	--	--	--	--	--	--	--	--

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

06892350 KANSAS RIVER AT DESOTO, KS

LOCATION.--Lat 38°59'00", long 94°57'52", in SE$^1/_4$ NE$^1/_4$ NE$^1/_4$ sec.27, T.12 S., R.22 E., Leavenworth County, Hydrologic Unit 10270104, on left bank at downstream side of bridge on county highway, north edge of DeSoto, 0.4 mi upstream from Kill Creek, and at mile 31.0.

DRAINAGE AREA.--59,756 mi^2, of which a large area is noncontributing.

PERIOD OF RECORD.--July 1917 to current year. Monthly discharge only for some periods published in WSP 1310. Prior to October 1973, published as "at Bonner Springs."

REVISED RECORDS.--WSP 806: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 753.87 ft above sea level. July 9, 1917, to Apr. 23, 1934, nonrecording gage; Apr. 24, 1934, to Nov. 25, 1960, water-stage recorder at site 9.7 mi downstream at datum 11.81 ft lower; Nov. 26, 1960, to Feb. 9, 1961, nonrecording gage; Feb. 10, 1961, to Sept. 30, 1971, water-stage recorder at site 10.2 mi downstream at datum 17.81 ft lower; and Oct. 1, 1971, to Sept. 30, 1973, at site 10.2 mi downstream at datum 22.81 ft lower. Lowered gage datum 5.0 ft Sept. 30, 1996, to 753.87 ft.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow affected by lakes and reservoirs in Colorado, Nebraska, and Kansas, and by numerous diversions upstream from station. Diurnal fluctuations caused by hydroelectric plant 20.8 mi up-stream; since storage capacity is small, daily flows are not affected appreciably. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1844, that of July 13, 1951.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2160	1240	1030	e1050	2350	24600	12100	4530	9640	23700	5830	6420
2	2150	2430	1150	e1000	1990	23300	9840	4360	11900	22900	4450	5880
3	1930	1760	1040	e950	1450	21900	10800	4260	10100	21800	3390	4950
4	e1320	1150	1050	e950	1180	16800	11800	4750	22200	16900	3460	4240
5	e1580	1320	1120	e1350	1830	12000	9630	7310	21500	15900	3540	4120
6	2000	2860	1100	e1700	1490	9620	6470	7160	24500	11000	3480	4060
7	e1760	3920	947	e2000	1370	9730	5350	8400	29400	9300	3210	3130
8	e1230	2160	1150	e1700	2060	8940	4900	9100	19100	7530	2980	2850
9	e1290	1350	967	e1550	7250	8810	4630	6250	14700	5650	3170	2630
10	e1050	1260	1010	e1400	3910	8450	6300	5390	21400	4790	3570	2580
11	1470	1190	1340	e1350	2010	8290	10200	5500	22900	4860	4140	2200
12	1170	862	703	e1500	1860	8310	11500	10100	22400	5920	4330	2660
13	1160	832	826	e1700	1880	11100	15600	10300	21800	9810	4390	2900
14	1120	927	e960	e1950	3530	12400	11200	9640	22100	10900	4400	3280
15	1960	1310	e920	e2100	3810	24400	19300	9300	23100	8050	4340	3260
16	1680	1090	e1200	e2000	2480	29700	15000	9000	21500	7280	3500	7850
17	1430	1100	e1000	e1900	1940	20700	11700	8930	19900	7660	2900	10100
18	1040	1050	e1050	e1950	1780	12100	11500	8890	21400	6190	2750	21200
19	1340	991	e940	e1950	1420	9020	11500	8780	21600	5500	2730	30200
20	772	947	e1000	1850	1790	10800	10400	8730	40600	6440	2640	21600
21	1160	675	e1000	1830	2010	13500	9550	8960	68500	6430	2530	17400
22	984	1350	e940	1880	2010	21500	14000	9200	36800	5110	2420	16300
23	1230	1130	e960	2170	1900	28500	10800	9010	25400	4710	3170	18800
24	1300	1130	e1000	2370	5310	29700	8110	8680	31200	4600	5130	26200
25	1600	1120	e930	2510	21800	25800	6950	9040	30700	4630	7460	17900
26	881	1100	e960	2470	27200	23100	5650	10400	30100	4610	7690	15300
27	1620	1070	e1000	2350	15500	21500	4830	10500	29400	3960	8820	14900
28	801	766	e1050	2280	19000	21400	5290	10200	28500	4560	7590	14500
29	1320	1050	e1100	3220	---	20500	5300	10000	26000	5190	5900	13900
30	1040	1070	e1050	4890	---	17600	4770	10200	24300	5530	5470	12700
31	1110	---	e1000	3040	---	14400	---	10400	---	4770	5130	---
MEAN	1376	1340	1016	1965	5075	17050	9499	8299	25090	8586	4339	10470
MAX	2160	3920	1340	4890	27200	29700	19300	10500	68500	23700	8820	30200
MIN	772	675	703	950	1180	8290	4630	4260	9640	3960	2420	2200
AC-FT	84610	79760	62470	120800	281900	1048000	565200	510300	1493000	528000	266800	622800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 2001, BY WATER YEAR (WY)

MEAN	5760	4658	3650	2915	4552	7197	9718	11190	15150	11800	7019	6658
MAX	51630	42320	21940	15990	20800	36560	43570	43270	78870	133200	66680	44660
(WY)	1974	1974	1974	1973	1949	1973	1973	1993	1951	1951	1993	1951
MIN	365	504	465	364	635	632	845	953	1188	1106	455	525
(WY)	1957	1957	1957	1957	1957	1967	1956	1989	1989	1936	1934	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1918 - 2001	
ANNUAL MEAN	2995		7823		7528	
HIGHEST ANNUAL MEAN					30570	1993
LOWEST ANNUAL MEAN					1326	1956
HIGHEST DAILY MEAN	14700	Jun 21	68500	Jun 21	486000	Jul 14 1951
LOWEST DAILY MEAN	675	Nov 21	675	Nov 21	160	Oct 11 1956
ANNUAL SEVEN-DAY MINIMUM	951	Dec 12	951	Dec 12	195	Oct 9 1956
MAXIMUM PEAK FLOW	---		80800	Jun 21	510000	Jul 13 1951
MAXIMUM PEAK STAGE	---		20.98	Jun 21	37.30	Jul 13 1951
INSTANTANEOUS LOW FLOW	---		492	Nov 21	160	Oct 11 1956
10 PERCENT EXCEEDS	5720		21600		18000	
50 PERCENT EXCEEDS	2380		4560		3420	
90 PERCENT EXCEEDS	1050		1050		1100	

e Estimated

06893000 MISSOURI RIVER AT KANSAS CITY, MO

LOCATION.--Lat 39°06'43", long 94°35'16", in sec.32, T.50 N., R.33 W., Jackson County, Hydrologic Unit 10300101, on downstream side of right pier of Chicago, Burlington and Quincy Railroad Bridge at Kansas City, 1.4 mi downstream from Kansas River, and at mile 366.1.

DRAINAGE AREA.--485,200 mi^2, approximately.

PERIOD OF RECORD.--October 1897 to current year. Prior to August 1928 monthly discharge only, published in WSP 1310. Gage-height records collected at same site 1873-99 are contained in reports of the Missouri River Commission; those since 1900 are contained in reports of the National Weather Service.

REVISED RECORDS.--WDR MO-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 706.40 ft above sea level. Prior to May 4, 1931, nonrecording gage; May 4, 1931, to Aug. 23, 1934, water-stage recorder, at present site and datum; Aug. 24, 1934, to May 15, 1947, water-stage recorder at site 200 ft upstream at same datum; May 16, 1947, to Feb. 28, 1948, nonrecording gage at present site; Feb. 29, 1948, to Oct. 1, 1989, at datum 10.00 ft higher.

REMARKS.--Records good except for May 3-10 and estimated daily discharges, which are poor. Some regulation from many upstream reservoirs. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 573,000 ft^3/s, July 14, 1951.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 16, 1844, reached a stage of 48.0 ft, present datum; discharge, about 625,000 ft^3/s, computed by the U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39600	42100	34400	23500	26800	62500	61500	80800	83000	71300	52300	39900
2	39800	45500	32600	23500	24000	56200	59800	79000	82800	70100	49200	40700
3	39900	46100	30400	23400	23800	52900	62200	77200	75800	67900	44500	39700
4	39900	43700	28400	23100	23500	50900	64000	81400	101000	64300	42900	37800
5	42500	42500	27800	23100	22700	46200	61500	93200	113000	64500	41600	36900
6	41800	44200	27400	23500	23000	45200	58700	117000	130000	65100	41300	37200
7	41600	49400	26200	23700	23700	48900	56000	129000	131000	59700	40200	37400
8	41400	49700	25000	24000	25300	49900	57000	119000	107000	54500	39000	37600
9	41100	47300	24900	24100	e35000	47800	57000	108000	88200	51200	38700	38800
10	41100	45100	24100	24000	37800	46500	60100	100000	80800	49100	38300	43800
11	40700	42900	23400	24200	31400	48200	72200	e93900	79800	48400	37700	42300
12	40300	41200	e24500	24600	28100	51700	75500	e96000	79800	61900	38300	40100
13	39300	39900	e24700	25100	26900	74500	87900	e94000	78200	71700	38400	39400
14	40100	39200	22700	26200	27600	77500	86200	e88000	77300	65000	38500	39700
15	43300	38500	e21300	26600	29400	88500	90700	87200	108000	54400	38400	39600
16	41700	38600	19700	27400	28100	99800	86600	83400	121000	50600	38100	42800
17	40600	38900	e17600	27300	26600	102000	84400	78400	111000	49000	37900	e55000
18	40500	38400	e17400	26700	25900	86700	85700	78400	96600	48000	39400	e75000
19	40500	38800	18500	26500	25000	75200	85700	73300	88700	50000	38800	e85000
20	40200	39200	20300	25900	24600	71600	83800	68400	146000	75800	38400	e76000
21	39900	39400	20900	24800	25500	70700	83200	66900	166000	67700	38000	64300
22	40200	40200	19900	24000	26800	77600	81900	76100	158000	53000	37000	58000
23	42200	40600	18900	23100	27100	89100	77000	77400	118000	48700	40500	58300
24	41800	40100	19300	22500	32900	97300	71700	71800	108000	45900	42300	67100
25	41200	40300	20200	21900	79300	92800	69300	66900	90000	44100	50700	62700
26	41600	40300	20900	21900	86900	84900	69600	65700	83500	45600	52000	55000
27	41600	39800	21900	22400	70800	77200	75100	65200	80700	49900	46200	51900
28	41300	38900	22500	23300	63200	71500	78200	63700	78700	52100	44900	50200
29	40500	37000	23000	24800	---	68200	80700	62100	75900	70500	42000	49100
30	41600	35800	23500	27400	---	65800	81700	61500	72300	70300	41700	47600
31	41500	---	23500	29100	---	63300	---	69600	---	58200	41300	---
MEAN	40950	41450	23410	24570	33990	69070	73500	82980	100300	58020	41560	49630
MAX	43300	49700	34400	29100	86900	102000	90700	129000	166000	75800	52300	85000
MIN	39300	35800	17400	21900	22700	45200	56000	61500	72300	44100	37000	36900
IN.	.10	.10	.06	.06	.07	.16	.17	.20	.23	.14	.10	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2001[a], BY WATER YEAR (WY)

MEAN	56950	53030	36990	29630	38920	56880	71450	73340	79100	71130	57210	58230
MAX	135200	103200	75370	60980	77690	133700	148900	145800	173800	288300	144300	115600
(WY)	1974	1999	1987	1973	1973	1979	1984	1995	1984	1993	1993	1993
MIN	34650	20560	12970	13800	16610	20190	36370	37230	40410	39230	33850	34510
(WY)	1992	1991	1964	1963	1964	1964	1990	1989	1989	1991	1991	1991

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1958 - 2001[a]	
ANNUAL MEAN	40650		53310		56950	
HIGHEST ANNUAL MEAN					102100	1993
LOWEST ANNUAL MEAN					35600	1991
HIGHEST DAILY MEAN	81200	Jun 27	166000	Jun 21	529000	Jul 27 1993
LOWEST DAILY MEAN	17400	Dec 18	17400	Dec 18	4730	Dec 18 1963
ANNUAL SEVEN-DAY MINIMUM	19100	Dec 17	19100	Dec 17	5480	Dec 17 1963
MAXIMUM PEAK FLOW	---		180000	Jun 21	541000	Jul 27 1993
MAXIMUM PEAK STAGE	---		27.96	Jun 21	48.87	Jul 27 1993
INSTANTANEOUS LOW FLOW	---		17100[b]	Dec 18	4240	Dec 18 1963
ANNUAL RUNOFF (INCHES)	1.14		1.49		1.59	
10 PERCENT EXCEEDS	48300		87000		95000	
50 PERCENT EXCEEDS	40600		44500		49200	
90 PERCENT EXCEEDS	31800		23800		25100	

e Estimated
[a] Post-regulation period.
[b] Minimum observed.

06893500 BLUE RIVER AT KANSAS CITY, MO

LOCATION.--Lat 38°57'26", long 94°33'31", in SE $^1/_4$ NE $^1/_4$ sec.28, T.48 N., R.33 W., Jackson County, Hydrologic Unit 10300101, on downstream side of right pier of bridge on Bannister Road, 0.4 mi downstream from Indian Creek, in Kansas City, and at mile 23.2.

DRAINAGE AREA.--188 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1939 to current year.

REVISED RECORDS.--WSP 926: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 753.73 ft above sea level (levels by the U.S. Army Corps of Engineers). Prior to July 1, 1939, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. Low flow regulated by commercial plants above station. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 17, 1928, reached a stage of about 39 ft, from information by the city of Kansas City.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	53	27	44	153	256	106	75	991	149	36	101
2	38	89	29	49	113	273	101	66	2680	159	33	69
3	38	34	31	53	110	283	2290	347	1040	90	42	52
4	32	30	29	49	99	227	459	496	9020	78	85	45
5	499	35	30	54	91	189	e285	189	1140	113	49	42
6	95	896	30	70	92	164	e230	225	7810	105	38	91
7	50	223	31	75	88	153	189	255	706	73	37	74
8	38	176	32	77	449	140	159	133	371	63	31	220
9	33	169	31	68	1840	131	141	100	267	54	31	67
10	31	97	31	62	366	121	719	223	211	331	47	54
11	22	68	33	82	267	123	1270	184	174	396	36	44
12	28	58	32	89	238	138	387	112	148	791	33	34
13	23	53	e34	151	258	121	255	90	124	159	31	31
14	968	47	e32	254	389	137	436	80	188	94	28	31
15	737	45	e35	131	275	1620	1100	70	189	72	46	33
16	150	41	e42	102	192	1660	269	65	113	61	59	165
17	97	38	e40	88	149	451	199	1260	93	54	41	700
18	68	34	e42	81	135	314	166	774	81	53	41	1080
19	52	33	43	76	129	241	151	193	166	45	36	293
20	43	31	41	70	121	199	139	402	5730	44	35	128
21	44	30	42	67	109	173	129	792	1440	38	32	110
22	72	30	42	65	103	217	122	215	385	34	29	67
23	654	28	41	64	125	170	148	152	239	29	266	132
24	125	27	40	61	3590	148	113	127	178	27	89	68
25	80	28	40	59	1170	129	99	137	144	81	1680	57
26	56	28	42	60	382	119	95	118	122	44	146	48
27	45	31	41	60	321	114	89	91	493	108	77	40
28	40	28	42	186	278	174	81	80	209	275	55	35
29	55	27	42	1110	---	152	77	75	133	78	44	31
30	46	27	43	395	---	123	74	451	148	59	545	32
31	62	---	43	207	---	121	---	326	---	44	295	---
MEAN	141	84.5	36.5	131	415	277	336	255	1158	123	131	132
MAX	968	896	43	1110	3590	1660	2290	1260	9020	791	1680	1080
MIN	22	27	27	44	88	114	74	65	81	27	28	31
IN.	.86	.50	.22	.80	2.30	1.70	1.99	1.56	6.87	.75	.81	.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

MEAN	132	112	96.7	94.8	131	190	273	259	296	170	83.8	170
MAX	790	926	726	445	740	1407	1279	1457	1285	1616	431	1395
(WY)	1987	1999	1993	1941	1985	1973	1944	1990	1967	1951	1982	1986
MIN	.000	.000	.000	.000	2.66	4.36	6.41	17.8	7.44	1.72	.94	.047
(WY)	1940	1940	1940	1940	1940	1957	1954	1956	1953	1946	1947	1939

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL MEAN	107		265		168	
HIGHEST ANNUAL MEAN					437	1993
LOWEST ANNUAL MEAN					12.8	1956
HIGHEST DAILY MEAN	2900	Jun 20	9020	Jun 4	20000	Sep 13 1961
LOWEST DAILY MEAN	19	Sep 7,8	22	Oct 11	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	22	Sep 13	28	Nov 24	.00	At Times
MAXIMUM PEAK FLOW	---		14900	Jun 4	41000	Sep 13 1961
MAXIMUM PEAK STAGE	---		30.23	Jun 4	44.46	Sep 13 1961
INSTANTANEOUS LOW FLOW	---		17	Oct 4,11	.00	Several Years
ANNUAL RUNOFF (INCHES)	7.78		19.17		12.15	
10 PERCENT EXCEEDS	197		451		280	
50 PERCENT EXCEEDS	38		91		46	
90 PERCENT EXCEEDS	23		32		6.0	

e Estimated

06893500 BLUE RIVER AT KANSAS CITY, MO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2000 to current year.

REMARKS.-- The number of missing days of record exceeds 20 percent of the year. The monitor is not operated from Dec. 4 to July 9.

TEMPERATURE, WATER (Deg. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.3	18.0	19.1	19.6	18.9	19.2	4.9	4.4	4.7	---	---	---
2	21.1	19.0	19.9	18.9	16.3	17.4	4.8	3.8	4.4	---	---	---
3	22.0	19.6	20.7	16.3	13.8	14.9	4.0	3.0	3.4	---	---	---
4	21.7	18.4	19.9	13.9	12.5	13.3	---	---	---	---	---	---
5	18.4	15.6	16.8	14.2	12.8	13.2	---	---	---	---	---	---
6	15.6	12.8	14.0	15.4	13.0	14.3	---	---	---	---	---	---
7	12.8	10.9	11.6	13.0	10.4	11.5	---	---	---	---	---	---
8	11.4	9.6	10.5	10.4	7.4	8.9	---	---	---	---	---	---
9	11.2	9.0	10.2	7.4	6.0	6.7	---	---	---	---	---	---
10	11.5	9.2	10.3	6.0	5.1	5.4	---	---	---	---	---	---
11	12.4	9.8	11.0	5.5	5.1	5.2	---	---	---	---	---	---
12	14.4	11.9	13.1	6.7	5.5	6.1	---	---	---	---	---	---
13	16.2	14.4	15.4	6.0	4.5	5.2	---	---	---	---	---	---
14	18.3	16.1	16.9	5.7	4.6	5.1	---	---	---	---	---	---
15	17.2	16.3	16.8	6.0	4.1	5.0	---	---	---	---	---	---
16	16.3	15.6	15.9	6.0	4.5	5.2	---	---	---	---	---	---
17	15.7	14.2	15.1	4.5	3.1	3.7	---	---	---	---	---	---
18	15.9	14.0	15.0	4.4	3.0	3.7	---	---	---	---	---	---
19	16.8	14.9	15.9	4.9	3.4	4.0	---	---	---	---	---	---
20	17.5	15.4	16.5	4.1	2.6	3.3	---	---	---	---	---	---
21	17.5	16.1	16.9	3.1	1.8	2.5	---	---	---	---	---	---
22	17.9	17.1	17.5	3.6	2.3	3.0	---	---	---	---	---	---
23	18.7	17.5	18.0	4.6	3.1	3.8	---	---	---	---	---	---
24	19.2	17.8	18.4	6.3	4.6	5.7	---	---	---	---	---	---
25	19.4	18.3	18.9	6.8	6.0	6.4	---	---	---	---	---	---
26	19.1	18.5	18.9	6.3	5.2	5.9	---	---	---	---	---	---
27	19.1	17.9	18.5	5.6	4.5	5.1	---	---	---	---	---	---
28	18.8	17.9	18.4	6.8	5.1	5.9	---	---	---	---	---	---
29	18.1	17.1	17.7	6.2	4.9	5.7	---	---	---	---	---	---
30	18.7	17.2	18.0	5.0	4.1	4.6	---	---	---	---	---	---
31	20.1	18.3	19.2	---	---	---	---	---	---	---	---	---
MONTH	22.0	9.0	16.3	19.6	1.8	7.3	4.9	3.0	4.2	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	32.6	29.7	31.1	25.1	22.4	23.8
2	---	---	---	---	---	---	32.7	29.9	31.3	25.7	22.9	24.4
3	---	---	---	---	---	---	31.9	30.1	31.0	26.7	24.0	25.4
4	---	---	---	---	---	---	31.3	27.7	29.7	27.2	25.0	26.1
5	---	---	---	---	---	---	31.9	28.6	30.3	26.1	24.5	25.4
6	---	---	---	---	---	---	31.9	28.8	30.2	25.6	24.8	25.2
7	---	---	---	---	---	---	30.7	28.2	29.6	25.1	24.1	24.6
8	---	---	---	---	---	---	30.9	28.4	29.6	24.1	22.7	23.3
9	---	---	---	---	---	---	31.6	28.7	30.0	23.2	21.5	22.4
10	---	---	---	30.8	26.7	28.5	30.0	26.2	27.8	22.7	20.1	21.6
11	---	---	---	28.1	25.5	27.1	27.2	24.7	25.9	22.9	20.3	21.7
12	---	---	---	27.2	23.8	24.7	28.0	24.7	26.3	23.4	20.4	21.9
13	---	---	---	25.5	22.6	24.1	28.8	26.0	27.2	23.7	21.1	22.4
14	---	---	---	26.2	23.8	25.0	28.0	25.5	26.7	23.0	21.4	22.2
15	---	---	---	26.7	24.0	25.4	26.5	24.5	25.2	21.6	20.1	20.7
16	---	---	---	27.3	24.7	25.9	25.9	23.0	24.5	20.3	19.0	19.8
17	---	---	---	29.8	25.7	27.7	25.3	23.6	24.3	20.8	19.7	20.2
18	---	---	---	30.9	27.8	29.4	25.8	22.6	24.0	20.5	19.7	20.1
19	---	---	---	30.8	28.5	29.7	26.2	23.0	24.6	20.8	19.0	19.9
20	---	---	---	32.0	28.8	30.3	26.6	23.7	25.0	21.8	19.3	20.5
21	---	---	---	32.4	29.0	30.7	28.2	25.1	26.5	22.6	20.6	21.6
22	---	---	---	32.8	29.6	31.2	28.1	26.2	27.1	21.9	20.2	21.0
23	---	---	---	32.3	30.0	31.1	27.0	24.1	25.4	21.3	19.3	20.4
24	---	---	---	31.0	29.9	30.5	26.0	24.3	25.2	19.3	17.6	18.5
25	---	---	---	30.0	27.6	28.6	25.8	22.8	24.2	18.1	16.1	17.2
26	---	---	---	28.4	26.5	27.3	26.4	24.1	25.2	17.6	15.6	16.8
27	---	---	---	26.7	25.4	26.1	26.8	24.2	25.6	18.3	15.9	17.2
28	---	---	---	26.4	24.7	25.6	27.5	24.9	26.3	19.2	16.9	18.0
29	---	---	---	29.1	25.5	27.1	28.6	25.8	27.2	19.1	17.0	18.0
30	---	---	---	31.2	27.5	29.3	27.4	23.3	25.4	19.0	16.6	17.9
31	---	---	---	32.1	29.1	30.6	25.1	23.0	23.9	---	---	---
MONTH	---	---	---	32.8	22.6	28.0	32.7	22.6	27.0	27.2	15.6	21.3

06893500 BLUE RIVER AT KANSAS CITY, MO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.8	7.7	7.7	7.7	7.6	7.6	7.5	7.2	7.3	---	---	---
2	7.8	7.6	7.7	7.6	7.5	7.6	7.6	7.2	7.4	---	---	---
3	7.8	7.6	7.7	7.8	7.5	7.6	7.5	7.2	7.3	---	---	---
4	7.9	7.7	7.7	7.7	7.5	7.6	---	---	---	---	---	---
5	7.7	7.5	7.7	7.6	7.5	7.5	---	---	---	---	---	---
6	7.7	7.3	7.6	7.6	7.4	7.5	---	---	---	---	---	---
7	7.7	7.5	7.6	7.6	7.4	7.5	---	---	---	---	---	---
8	7.6	7.5	7.6	7.6	7.4	7.5	---	---	---	---	---	---
9	7.7	7.5	7.6	7.6	7.3	7.5	---	---	---	---	---	---
10	7.7	7.4	7.6	7.5	7.3	7.4	---	---	---	---	---	---
11	7.6	7.5	7.5	7.6	7.3	7.5	---	---	---	---	---	---
12	7.7	7.5	7.6	7.6	7.3	7.4	---	---	---	---	---	---
13	7.6	7.4	7.5	7.7	7.4	7.6	---	---	---	---	---	---
14	7.8	7.5	7.6	7.7	7.5	7.6	---	---	---	---	---	---
15	7.7	7.6	7.7	7.7	7.4	7.6	---	---	---	---	---	---
16	7.8	7.7	7.7	7.7	7.5	7.6	---	---	---	---	---	---
17	7.8	7.6	7.7	7.7	7.4	7.6	---	---	---	---	---	---
18	7.8	7.7	7.7	7.6	7.4	7.5	---	---	---	---	---	---
19	7.8	7.6	7.7	7.6	7.3	7.5	---	---	---	---	---	---
20	7.7	7.6	7.6	7.7	7.5	7.6	---	---	---	---	---	---
21	7.7	7.6	7.6	7.7	7.4	7.5	---	---	---	---	---	---
22	7.6	7.5	7.5	7.6	7.3	7.4	---	---	---	---	---	---
23	7.6	7.4	7.5	7.5	7.3	7.4	---	---	---	---	---	---
24	7.6	7.4	7.5	7.5	7.3	7.4	---	---	---	---	---	---
25	7.5	7.4	7.5	7.6	7.3	7.5	---	---	---	---	---	---
26	7.6	7.4	7.5	7.6	7.3	7.4	---	---	---	---	---	---
27	7.6	7.5	7.5	7.6	7.3	7.5	---	---	---	---	---	---
28	7.6	7.5	7.5	7.7	7.4	7.5	---	---	---	---	---	---
29	7.6	7.5	7.5	7.6	7.3	7.5	---	---	---	---	---	---
30	7.7	7.5	7.6	7.6	7.3	7.4	---	---	---	---	---	---
31	7.6	7.5	7.6	---	---	---	---	---	---	---	---	---
MONTH	7.9	7.3	7.6	7.8	7.3	7.5	7.6	7.2	7.3	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	8.0	7.8	7.9	7.9	7.7	7.8
2	---	---	---	---	---	---	8.1	7.8	7.9	8.0	7.9	8.0
3	---	---	---	---	---	---	8.1	7.9	8.0	8.1	7.9	8.0
4	---	---	---	---	---	---	8.0	7.9	7.9	8.1	7.9	8.0
5	---	---	---	---	---	---	8.2	7.9	8.0	8.1	8.1	8.1
6	---	---	---	---	---	---	8.2	7.9	8.1	8.2	7.9	8.1
7	---	---	---	---	---	---	8.1	7.9	8.0	8.0	7.9	7.9
8	---	---	---	---	---	---	8.0	7.9	7.9	7.9	7.8	7.9
9	---	---	---	---	---	---	8.1	7.8	8.0	8.0	7.8	7.9
10	---	---	---	7.9	7.6	7.8	8.0	7.8	7.9	8.0	7.9	7.9
11	---	---	---	8.0	7.7	7.8	8.0	7.7	7.8	8.0	7.9	8.0
12	---	---	---	7.9	7.6	7.7	7.9	7.7	7.8	8.0	7.9	8.0
13	---	---	---	7.8	7.7	7.7	7.9	7.7	7.8	8.0	7.9	8.0
14	---	---	---	8.1	7.8	7.8	7.9	7.7	7.8	8.0	7.8	7.9
15	---	---	---	7.9	7.8	7.8	7.8	7.7	7.8	7.9	7.8	7.9
16	---	---	---	8.0	7.8	7.9	7.9	7.7	7.8	7.8	7.7	7.8
17	---	---	---	8.1	7.8	7.9	7.8	7.8	7.8	7.9	7.7	7.8
18	---	---	---	8.2	7.8	8.0	7.9	7.7	7.8	7.8	7.8	7.8
19	---	---	---	8.3	7.9	8.1	7.9	7.8	7.8	8.0	7.8	7.9
20	---	---	---	8.4	7.9	8.2	7.9	7.8	7.8	8.0	7.9	7.9
21	---	---	---	8.3	7.9	8.1	8.0	7.8	7.9	8.0	7.9	8.0
22	---	---	---	8.2	7.9	8.1	8.0	7.8	7.9	8.0	7.9	7.9
23	---	---	---	8.2	7.8	8.0	7.9	7.6	7.8	8.0	7.8	7.9
24	---	---	---	8.1	7.9	8.0	7.9	7.7	7.8	8.0	7.8	7.9
25	---	---	---	7.9	7.6	7.8	8.1	7.7	7.8	8.0	7.8	7.9
26	---	---	---	7.7	7.5	7.6	7.9	7.8	7.8	7.9	7.8	7.8
27	---	---	---	7.8	7.5	7.6	7.9	7.8	7.8	7.9	7.8	7.8
28	---	---	---	7.8	7.7	7.7	8.0	7.8	7.9	7.9	7.8	7.8
29	---	---	---	7.8	7.7	7.7	8.1	7.9	8.0	7.9	7.7	7.8
30	---	---	---	7.8	7.7	7.7	8.0	7.7	7.9	7.8	7.7	7.8
31	---	---	---	7.9	7.7	7.8	8.0	7.7	7.8	---	---	---
MONTH	---	---	---	8.4	7.5	7.9	8.2	7.6	7.9	8.2	7.7	7.9

06893500 BLUE RIVER AT KANSAS CITY, MO--Continued

SPECIFIC CONDUCTANCE (microsiemens/cm at 25 °C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	915	884	901	821	744	798	976	959	971	---	---	---
2	936	914	929	745	563	631	991	971	983	---	---	---
3	956	930	944	620	568	593	1018	986	999	---	---	---
4	---	---	---	714	618	660	---	---	---	---	---	---
5	1008	323	599	798	712	752	---	---	---	---	---	---
6	537	448	494	821	262	486	---	---	---	---	---	---
7	613	537	575	616	343	460	---	---	---	---	---	---
8	719	613	669	675	616	656	---	---	---	---	---	---
9	804	719	755	719	597	669	---	---	---	---	---	---
10	821	802	813	776	694	744	---	---	---	---	---	---
11	891	817	855	808	764	783	---	---	---	---	---	---
12	916	843	880	837	807	822	---	---	---	---	---	---
13	964	913	950	861	833	844	---	---	---	---	---	---
14	995	233	769	887	858	868	---	---	---	---	---	---
15	437	297	340	897	870	879	---	---	---	---	---	---
16	598	437	505	909	884	891	---	---	---	---	---	---
17	680	598	641	912	893	902	---	---	---	---	---	---
18	738	679	717	915	889	900	---	---	---	---	---	---
19	797	738	771	906	891	899	---	---	---	---	---	---
20	844	797	819	---	---	---	---	---	---	---	---	---
21	881	822	851	972	946	963	---	---	---	---	---	---
22	902	842	878	994	963	982	---	---	---	---	---	---
23	882	230	466	989	955	975	---	---	---	---	---	---
24	691	428	566	987	947	970	---	---	---	---	---	---
25	694	660	673	973	947	967	---	---	---	---	---	---
26	731	678	701	1007	972	994	---	---	---	---	---	---
27	754	729	740	1000	964	987	---	---	---	---	---	---
28	783	754	770	984	963	975	---	---	---	---	---	---
29	833	771	795	976	946	967	---	---	---	---	---	---
30	832	742	790	959	945	951	---	---	---	---	---	---
31	780	755	771	---	---	---	---	---	---	---	---	---
MONTH	1008	230	731	1007	262	826	1018	959	984	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	714	642	678	579	475	523
2	---	---	---	---	---	---	742	714	734	676	579	632
3	---	---	---	---	---	---	862	741	769	757	676	709
4	---	---	---	---	---	---	875	503	699	780	757	771
5	---	---	---	---	---	---	553	499	528	840	772	807
6	---	---	---	---	---	---	609	553	581	925	704	824
7	---	---	---	---	---	---	751	609	665	744	551	686
8	---	---	---	---	---	---	807	751	795	609	461	497
9	---	---	---	---	---	---	828	806	819	532	484	515
10	---	---	---	813	307	505	823	769	804	665	530	585
11	---	---	---	450	336	400	830	811	820	702	665	691
12	---	---	---	435	262	340	823	718	760	745	699	726
13	---	---	---	444	358	405	845	742	817	793	728	750
14	---	---	---	539	444	494	886	838	867	829	793	804
15	---	---	---	611	539	579	888	834	865	846	822	834
16	---	---	---	666	611	636	878	793	840	926	459	718
17	---	---	---	714	665	690	842	784	814	525	313	364
18	---	---	---	757	714	730	863	841	852	411	344	371
19	---	---	---	753	727	744	858	847	852	561	376	493
20	---	---	---	795	733	753	893	851	882	626	555	583
21	---	---	---	823	795	806	919	887	906	688	626	672
22	---	---	---	835	817	825	920	905	913	675	645	661
23	---	---	---	838	811	828	908	428	624	732	633	676
24	---	---	---	836	809	823	526	472	493	661	626	640
25	---	---	---	822	695	751	532	298	356	710	648	677
26	---	---	---	695	592	633	567	389	473	735	689	709
27	---	---	---	727	584	684	659	567	628	772	713	739
28	---	---	---	609	428	506	706	659	680	807	770	778
29	---	---	---	503	457	476	750	706	730	818	787	806
30	---	---	---	565	501	535	812	350	648	867	800	841
31	---	---	---	642	564	599	503	353	448	---	---	---
MONTH	---	---	---	838	262	625	920	298	721	926	313	669

06893500 BLUE RIVER AT KANSAS CITY, MO--Continued

OXYGEN DISSOLVED (mg/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.1	6.8	7.3	6.9	6.0	6.4	12.0	10.9	11.4	---	---	---
2	8.0	6.8	7.3	7.1	6.6	6.8	13.3	11.1	12.1	---	---	---
3	8.1	6.8	7.4	8.1	6.5	7.1	13.6	12.0	12.6	---	---	---
4	7.2	6.1	6.8	8.5	7.5	8.0	---	---	---	---	---	---
5	8.7	6.1	7.9	8.1	7.4	7.8	---	---	---	---	---	---
6	9.0	8.3	8.7	8.9	7.9	8.5	---	---	---	---	---	---
7	9.8	8.9	9.4	9.6	8.7	9.2	---	---	---	---	---	---
8	9.8	9.4	9.6	9.8	9.1	9.4	---	---	---	---	---	---
9	9.8	9.4	9.6	10.0	9.8	9.9	---	---	---	---	---	---
10	9.5	8.7	9.2	10.0	9.8	9.9	---	---	---	---	---	---
11	8.9	8.0	8.5	10.5	9.9	10.2	---	---	---	---	---	---
12	8.9	7.7	8.4	10.1	9.6	9.9	---	---	---	---	---	---
13	7.8	6.5	7.1	10.6	9.8	10.2	---	---	---	---	---	---
14	8.1	6.3	7.2	10.5	10.3	10.4	---	---	---	---	---	---
15	8.3	7.1	7.8	10.6	10.0	10.4	---	---	---	---	---	---
16	8.5	8.2	8.4	10.3	10.0	10.1	---	---	---	---	---	---
17	8.8	8.3	8.6	10.9	10.2	10.7	---	---	---	---	---	---
18	8.6	7.9	8.3	11.0	10.8	10.9	---	---	---	---	---	---
19	8.1	7.4	7.9	11.0	10.4	10.8	---	---	---	---	---	---
20	7.5	6.6	7.1	11.2	10.3	10.7	---	---	---	---	---	---
21	6.8	5.9	6.4	11.2	10.3	10.8	---	---	---	---	---	---
22	6.9	6.0	6.5	11.4	10.7	11.0	---	---	---	---	---	---
23	8.0	6.3	7.1	11.3	10.6	10.9	---	---	---	---	---	---
24	7.2	6.3	7.0	11.1	10.2	10.6	---	---	---	---	---	---
25	6.5	5.5	6.1	11.1	9.7	10.4	---	---	---	---	---	---
26	5.7	5.1	5.4	11.4	9.9	10.6	---	---	---	---	---	---
27	5.4	4.8	5.1	12.1	10.5	11.2	---	---	---	---	---	---
28	7.0	4.7	6.4	12.1	10.7	11.3	---	---	---	---	---	---
29	7.1	6.2	6.5	12.5	10.6	11.4	---	---	---	---	---	---
30	6.8	6.2	6.5	12.6	11.2	11.7	---	---	---	---	---	---
31	6.7	6.1	6.5	---	---	---	---	---	---	---	---	---
MONTH	9.8	4.7	7.5	12.6	6.0	9.9	13.6	10.9	12.0	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	7.6	5.5	6.4	7.3	6.1	6.8
2	---	---	---	---	---	---	8.3	5.5	6.7	7.6	6.7	7.1
3	---	---	---	---	---	---	8.3	5.7	6.9	7.6	6.4	6.9
4	---	---	---	---	---	---	7.3	6.1	6.8	7.7	6.1	6.8
5	---	---	---	---	---	---	8.1	5.9	6.7	7.9	6.5	7.1
6	---	---	---	---	---	---	8.2	5.7	6.7	8.1	6.5	7.1
7	---	---	---	---	---	---	7.7	5.9	6.7	7.4	6.5	6.9
8	---	---	---	---	---	---	7.5	5.6	6.4	7.4	6.9	7.3
9	---	---	---	---	---	---	7.8	5.4	6.4	7.9	7.0	7.4
10	---	---	---	6.8	5.2	6.3	6.7	5.6	6.1	8.4	7.3	e7.8
11	---	---	---	7.4	6.1	6.7	7.8	5.5	6.5	8.3	8.3	e8.3
12	---	---	---	7.6	6.7	7.2	7.2	5.4	6.2	8.4	8.3	e8.3
13	---	---	---	7.6	7.2	7.4	7.4	5.4	6.3	8.7	7.5	e8.3
14	---	---	---	7.7	7.1	7.3	7.6	5.1	6.3	8.8	6.8	7.7
15	---	---	---	8.1	6.9	7.4	6.4	5.1	5.9	8.2	7.2	7.7
16	---	---	---	7.1	6.7	e6.7	7.5	5.8	6.6	8.3	7.5	7.9
17	---	---	---	7.0	6.7	e6.8	7.3	5.7	6.4	8.6	7.7	8.3
18	---	---	---	6.9	6.6	e6.7	8.0	6.5	7.1	8.7	7.9	8.3
19	---	---	---	6.7	6.5	e6.6	8.1	6.2	7.0	8.3	7.7	8.2
20	---	---	---	10.7	6.4	e7.5	8.2	6.3	7.1	8.2	7.4	7.9
21	---	---	---	9.9	5.5	7.4	8.1	6.1	7.0	8.0	7.3	7.6
22	---	---	---	10.1	5.3	7.3	7.8	5.9	6.8	8.0	7.3	7.6
23	---	---	---	10.1	5.3	7.3	7.4	6.0	6.9	8.1	7.1	7.6
24	---	---	---	9.0	5.4	7.1	7.3	6.5	6.9	8.7	7.7	8.2
25	---	---	---	7.7	5.4	6.4	7.8	6.7	7.1	9.0	7.9	8.4
26	---	---	---	6.7	4.6	5.6	7.0	6.3	6.8	9.1	7.8	8.4
27	---	---	---	7.1	5.3	6.1	7.0	6.0	6.5	9.0	7.7	8.2
28	---	---	---	7.4	6.3	6.9	7.4	5.7	6.5	9.1	7.4	8.1
29	---	---	---	7.0	6.2	6.7	7.7	5.8	6.7	8.9	7.0	7.8
30	---	---	---	7.0	6.0	6.3	7.7	6.2	6.9	9.5	7.4	8.2
31	---	---	---	7.0	5.5	6.2	7.6	6.6	7.2	---	---	---
MONTH	---	---	---	10.7	4.6	6.8	8.3	5.1	6.7	9.5	6.1	7.7

e Estimated

06893500 BLUE RIVER AT KANSAS CITY, MO--Continued

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	150	52	82	55	42	47	---	---	---
2	---	---	---	170	73	100	64	49	55	---	---	---
3	---	---	---	88	14	47	78	59	67	---	---	---
4	---	---	---	140	11	21	---	---	---	---	---	---
5	570	36	320	24	2.8	15	---	---	---	---	---	---
6	270	51	140	610	21	270	---	---	---	---	---	---
7	52	15	31	410	110	200	---	---	---	---	---	---
8	20	12	15	120	76	100	---	---	---	---	---	---
9	38	16	23	140	80	100	---	---	---	---	---	---
10	60	31	44	150	59	110	---	---	---	---	---	---
11	78	59	69	95	40	67	---	---	---	---	---	---
12	180	71	110	82	13	56	---	---	---	---	---	---
13	100	50	80	80	6.4	50	---	---	---	---	---	---
14	---	---	---	73	23	49	---	---	---	---	---	---
15	---	---	---	83	23	51	---	---	---	---	---	---
16	370	100	210	76	18	52	---	---	---	---	---	---
17	160	37	82	89	20	53	---	---	---	---	---	---
18	60	26	35	79	8.7	46	---	---	---	---	---	---
19	53	36	44	73	6.5	33	---	---	---	---	---	---
20	64	32	49	73	7.0	22	---	---	---	---	---	---
21	230	51	130	9.6	7.6	8.5	---	---	---	---	---	---
22	210	140	170	9.8	7.6	8.7	---	---	---	---	---	---
23	---	---	---	16	8.0	9.6	---	---	---	---	---	---
24	680	270	400	17	9.6	11	---	---	---	---	---	---
25	350	210	290	21	14	16	---	---	---	---	---	---
26	410	310	350	22	15	16	---	---	---	---	---	---
27	440	240	340	22	17	19	---	---	---	---	---	---
28	280	210	250	31	20	24	---	---	---	---	---	---
29	250	100	190	41	30	34	---	---	---	---	---	---
30	150	85	110	46	37	41	---	---	---	---	---	---
31	100	56	76	---	---	---	---	---	---	---	---	---
MONTH	680	12	150	610	2.8	57	78	42	56	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	52	24	30	240	82	e120
2	---	---	---	---	---	---	32	18	24	82	56	e68
3	---	---	---	---	---	---	360	15	28	60	38	e47
4	---	---	---	---	---	---	360	77	100	39	20	e26
5	---	---	---	---	---	---	85	32	54	30	18	23
6	---	---	---	---	---	---	49	27	37	46	19	25
7	---	---	---	---	---	---	52	26	34	59	17	25
8	---	---	---	---	---	---	33	17	24	240	46	110
9	---	---	---	---	---	---	31	17	23	52	24	36
10	---	---	---	890	16	290	57	23	33	30	18	25
11	---	---	---	390	87	240	35	17	24	24	16	20
12	---	---	---	1500	150	740	30	17	21	25	14	19
13	---	---	---	450	83	210	24	18	21	23	13	17
14	---	---	---	83	40	62	26	16	19	23	13	16
15	---	---	---	70	26	42	48	16	26	20	13	16
16	---	---	---	430	21	76	43	20	23	290	20	78
17	---	---	---	48	12	22	25	17	21	840	60	480
18	---	---	---	53	14	26	25	15	19	1200	240	510
19	---	---	---	37	11	23	24	14	17	370	83	150
20	---	---	---	39	14	23	29	13	18	86	50	66
21	---	---	---	24	14	18	19	12	16	55	23	36
22	---	---	---	24	13	17	20	13	16	31	21	27
23	---	---	---	24	13	17	660	16	270	65	21	35
24	---	---	---	43	14	19	150	35	85	35	16	25
25	---	---	---	100	20	38	1500	33	1000	21	15	17
26	---	---	---	40	21	29	580	85	220	21	13	16
27	---	---	---	130	25	65	110	49	79	16	10	13
28	---	---	---	590	38	220	95	29	49	16	9.0	11
29	---	---	---	190	52	110	45	24	32	15	8.0	10
30	---	---	---	72	32	50	1500	30	400	14	7.0	9.3
31	---	---	---	51	28	37	1500	230	e470	---	---	---
MONTH	---	---	---	---	---	---	1500	12	100	1200	7.0	69

e Estimated

06893557 BRUSH CREEK AT WARD PARKWAY IN KANSAS CITY, MO

LOCATION.--Lat 39°01'59.16", long 94°36'19.35", in NW $^1/_4$ NW $^1/_4$, sec.31, T.49 N., R.33 W. in Jackson County, Hydrologic Unit 10300101, on the downstream side of the right wingwall on Ward Parkway at Shawnee Mission Parkway in Kansas City and 5.4 mi upstream from the Blue River.

DRAINAGE AREA.--12.22 mi^2.

PERIOD OF RECORD--July 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 800.00 ft above sea level (from levels by the U.S. Geological Survey).

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	26	.57	e.40	4.6	11	1.8	1.4	76	1.4	.49	.45
2	1.0	5.3	.57	e.40	e3.5	11	2.8	.90	13	2.5	.41	.33
3	1.5	1.1	.57	e.41	e3.0	8.7	e331	112	42	.97	.34	.30
4	12	.82	.59	e.42	2.7	6.6	48	77	369	.84	.26	.23
5	102	18	.65	e.45	2.0	4.9	20	12	68	.76	.21	.22
6	4.6	98	.57	e.50	3.9	4.0	12	12	427	1.2	.18	3.6
7	1.7	8.5	.55	e.55	1.5	3.3	9.3	3.7	56	1.0	.18	9.8
8	.81	19	.52	e.55	66	2.8	6.9	2.7	14	.76	.49	11
9	.60	7.6	.48	e.60	101	2.4	5.7	1.0	9.1	.79	.19	.44
10	2.4	3.6	.48	e1.0	22	2.1	43	39	3.5	13	.53	.33
11	.57	3.3	.48	e2.0	23	2.7	15	3.4	2.9	34	.27	.20
12	.67	2.2	.48	e1.8	11	4.5	7.9	1.2	2.0	89	.15	.33
13	.57	2.1	.48	e10	15	1.6	4.1	.98	1.6	3.0	.22	.48
14	108	2.0	.48	e2.0	23	25	116	.91	24	1.9	.16	.18
15	61	2.1	.49	e1.7	9.4	160	e108	.84	5.2	1.3	5.6	.20
16	11	.74	e.48	e1.4	6.2	82	e17	.84	2.6	1.0	.71	24
17	3.8	.69	e.47	e1.2	5.0	23	11	185	1.3	1.2	.79	90
18	2.0	.68	e.46	1.1	4.4	13	9.4	76	1.5	8.5	.54	63
19	1.3	.67	e.45	.93	6.3	9.1	7.2	3.3	36	1.4	1.8	2.4
20	.95	.61	e.45	.85	3.8	6.6	4.4	67	335	1.1	.34	7.1
21	.82	.61	e.44	.88	2.8	5.2	6.4	15	96	.97	.16	4.4
22	12	.59	e.42	.85	3.4	10	3.4	3.8	13	.76	2.5	2.1
23	97	.61	e.42	.76	18	4.6	5.2	2.3	5.4	.75	40	27
24	8.3	2.4	e.42	.72	174	3.4	1.8	5.1	3.8	.81	2.1	2.2
25	3.7	1.2	e.40	.68	27	3.0	1.3	2.8	2.9	3.0	115	1.7
26	2.2	.57	e.40	.80	13	2.6	1.2	1.2	2.5	1.1	.75	1.3
27	1.5	.57	e.40	.93	9.2	2.8	2.2	.84	27	22	.48	1.3
28	1.1	1.4	e.41	9.9	12	17	.93	.73	3.1	40	.41	1.2
29	6.6	1.2	e.40	117	---	3.9	.84	.94	3.0	2.3	.29	1.0
30	1.5	.59	e.40	16	---	2.4	.77	71	2.5	.98	41	1.0
31	7.1	---	e.40	6.4	---	5.2	---	6.9	---	.68	2.2	---
MEAN	14.8	7.09	.48	5.91	20.6	14.3	26.8	23.0	55.0	7.71	7.06	8.59
MAX	108	98	.65	117	174	160	331	185	427	89	115	90
MIN	.52	.57	.40	.40	1.5	1.6	.77	.73	1.3	.68	.15	.18
IN.	1.40	.65	.04	.56	1.76	1.35	2.45	2.17	5.02	.73	.67	.78

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	34.7	11.8	4.79	4.77	9.52	9.31	23.3	17.8	33.2	7.65	6.69	11.2
MAX	87.6	25.5	8.84	8.00	20.6	14.3	41.8	23.2	55.0	12.8	10.3	15.0
(WY)	1999	1999	1999	1999	2001	2001	1999	1999	2001	2000	2000	1999
MIN	1.64	2.71	.48	.41	2.71	5.41	1.15	7.32	19.6	2.46	3.46	8.59
(WY)	2000	2000	2001	2000	2000	2000	2000	2000	2000	1999	1999	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL MEAN	7.67		15.8		14.6	
HIGHEST ANNUAL MEAN					21.3	1999
LOWEST ANNUAL MEAN					6.59	2000
HIGHEST DAILY MEAN	255	Jun 20	427	Jun 6	1520	Oct 4 1998
LOWEST DAILY MEAN	.25	Jan 2	.15	Aug 12	.00	Jul 15 1998
ANNUAL SEVEN-DAY MINIMUM	.32	Apr 12	.26	Aug 3	.00	Jul 15 1998
MAXIMUM PEAK FLOW	---		4710	Jun 6	4710	Jun 6 2001
MAXIMUM PEAK STAGE	---		44.26	Jun 6	50.90	Oct 4 1998
INSTANTANEOUS LOW FLOW	---		.15	Aug 6,8-15,21,22	.10	Jan 25 1999
ANNUAL RUNOFF (INCHES)	8.55		17.57		16.18	
10 PERCENT EXCEEDS	16		40		27	
50 PERCENT EXCEEDS	.75		2.1		1.5	
90 PERCENT EXCEEDS	.36		.42		.40	

e Estimated

06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO

LOCATION.--Lat 39°02'21.20", long 94°34'43.58", in NW $^1/_4$ SE $^1/_4$, sec.29, T.49 N., R.33 W., Jackson County, Hydrologic Unit 10300101, on the left upstream Rockhill Road bridge abutment in Kansas City and 3.7 mi upstream from the Blue River.

DRAINAGE AREA.--17.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 799.70 ft above sea level (levels by the U.S. Geological Survey).

REMARKS.--Water-discharge records poor. U.S.G.S satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	20	1.3	e.70	3.6	6.3	1.6	.85	126	.75	.90	1.2
2	3.9	2.0	.82	e.71	2.6	6.3	2.3	.67	12	1.3	.83	1.3
3	4.1	.46	.63	e.72	2.0	6.2	473	70	51	.75	.69	1.0
4	23	.46	.73	e.75	2.6	3.9	25	55	554	.48	.49	.51
5	118	11	1.0	e.80	2.3	9.2	6.9	6.5	89	.22	.30	.44
6	3.0	79	.85	e.90	2.8	.50	3.9	7.2	570	.19	.46	2.7
7	2.4	1.6	.85	e.80	2.2	.00	2.0	3.0	52	1.2	.42	6.6
8	2.6	6.2	.69	e.70	75	.35	1.4	2.1	16	.18	.40	13
9	2.4	2.4	.79	e.60	108	2.1	.90	1.3	11	.13	.53	1.6
10	3.2	1.7	.76	.67	9.6	1.5	37	42	4.6	5.3	.27	1.8
11	2.7	1.8	e.75	1.9	11	1.5	3.0	3.0	2.8	32	1.5	.84
12	2.0	1.3	e.74	1.6	6.1	1.6	1.9	1.7	1.9	172	.40	1.2
13	.59	1.1	e.73	e13	7.1	.82	1.2	1.2	1.5	3.6	.51	1.4
14	137	1.1	e.73	e8.0	11	24	205	1.0	26	2.3	.33	.38
15	72	1.3	e.75	e2.8	4.5	143	73	1.0	4.2	1.5	4.4	1.5
16	3.1	.70	e.75	e2.0	4.4	61	7.5	1.1	2.4	1.1	2.2	34
17	1.5	1.2	e.75	e1.7	4.2	10	7.1	160	1.4	1.0	.95	132
18	1.6	.93	e.74	e1.5	3.8	8.9	5.9	4.0	.97	4.7	.54	81
19	1.6	.87	e.73	e1.3	4.4	3.3	4.0	3.0	45	.76	1.6	5.0
20	1.6	1.6	e.74	1.2	3.1	1.7	2.6	108	488	.50	.30	4.8
21	1.8	1.3	e.73	1.2	3.5	.66	2.9	13	115	.44	.18	4.6
22	3.9	.73	e.70	.94	3.7	.08	1.4	3.9	7.2	.18	.64	.94
23	108	.74	e.71	1.1	19	.90	2.4	2.6	3.0	.06	41	24
24	3.3	1.0	e.70	1.4	180	1.0	2.4	5.3	1.8	.16	2.1	2.5
25	1.3	1.1	e.70	1.5	11	1.5	2.6	4.2	.94	1.2	206	3.1
26	1.5	.98	e.70	1.7	5.2	1.8	2.7	2.3	.88	1.7	1.4	2.6
27	1.2	1.1	e.70	1.5	4.1	1.7	3.7	1.7	21	20	.44	2.4
28	.82	1.0	e.70	36	6.2	8.4	2.6	.98	1.6	53	.37	1.3
29	2.2	1.3	e.70	114	---	3.0	1.8	.64	1.3	5.5	.21	.95
30	1.0	1.3	e.70	10	---	2.2	.86	89	1.3	2.4	65	1.2
31	1.7	---	e.70	4.7	---	2.4	---	6.5	---	1.4	3.8	---
MEAN	16.7	4.91	.76	6.98	18.0	10.2	29.6	19.4	73.8	10.2	10.9	11.2
MAX	137	79	1.3	114	180	143	473	160	570	172	206	132
MIN	.59	.46	.63	.60	2.0	.00	.86	.64	.88	.06	.18	.38
IN.	1.13	.32	.05	.47	1.10	.69	1.94	1.32	4.84	.69	.74	.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	55.1	17.1	6.23	7.09	11.1	11.8	33.8	19.2	46.3	10.1	9.53	19.8
MAX	145	41.4	10.9	11.4	18.0	18.0	69.1	26.5	73.8	17.1	11.0	39.8
(WY)	1999	1999	1999	1999	2001	1999	1999	1999	2001	2000	2000	1998
MIN	3.45	4.91	.76	2.93	6.86	7.31	2.65	11.7	27.8	3.08	6.71	11.2
(WY)	2000	2001	2001	2000	1999	2000	2000	2000	2000	1999	1999	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL MEAN	10.3		17.6		20.0	
HIGHEST ANNUAL MEAN					32.9	1999
LOWEST ANNUAL MEAN					9.68	2000
HIGHEST DAILY MEAN	374	Jun 20	570	Jun 6	2540	Oct 4 1998
LOWEST DAILY MEAN	.46	Nov 3,4	.00	Mar 7	.00	Mar 7 2001
ANNUAL SEVEN-DAY MINIMUM	.70	Dec 24	.41	Aug 4	.41	Aug 4 2001
MAXIMUM PEAK FLOW	---		5470	Apr 3	21700	Oct 4 1998
MAXIMUM PEAK STAGE	---		11.48	Apr 3	21.71[a]	Oct 4 1998
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Many Days
ANNUAL RUNOFF (INCHES)	8.22		14.03		15.99	
10 PERCENT EXCEEDS	16		39		34	
50 PERCENT EXCEEDS	3.1		1.7		3.8	
90 PERCENT EXCEEDS	.85		.60		1.0	

e Estimated
[a] From floodmark, discharge determined by indirect method.

06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO--Continued

WATER-QUAILTY RECORDS

PERIOD OF RECORD.--October 2000 to current year.

REMARKS.--The number of missing days of record exceeds 20 percent of the year. The monitor was not operated from Dec. 5 to Jun 21.

TEMPERATURE, WATER (Deg. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.9	17.9	18.6	18.8	17.6	18.2	4.2	3.5	3.7	4.7	4.1	4.4
2	19.9	18.7	19.3	18.4	17.1	17.4	3.8	3.1	3.5	4.6	4.2	4.4
3	20.2	19.4	19.8	17.3	15.5	16.3	4.1	3.7	3.9	4.9	4.4	4.6
4	20.8	16.8	19.7	15.5	14.6	14.8	4.4	3.3	3.8	4.9	4.5	4.7
5	17.3	15.0	15.5	14.8	13.9	14.5	3.6	2.6	3.0	4.7	4.2	4.4
6	15.1	13.4	14.1	14.7	13.4	14.2	2.6	2.0	2.3	4.2	3.9	4.0
7	13.4	12.2	12.6	13.4	11.3	12.2	3.1	1.9	2.5	4.4	3.8	4.0
8	12.2	11.1	11.4	11.3	8.8	10.1	3.3	2.7	3.1	4.5	3.8	4.1
9	12.1	11.0	11.5	8.8	6.9	7.8	3.1	2.7	2.9	4.6	4.0	4.3
10	11.9	11.1	11.5	6.9	5.4	6.1	3.3	2.4	3.0	4.8	4.1	4.4
11	11.8	11.1	11.4	5.5	4.7	5.0	2.4	-.2	1.0	4.5	4.1	4.3
12	12.6	11.8	12.2	5.2	4.7	4.9	1.2	-.1	.5	4.7	4.1	4.4
13	14.9	12.6	13.4	4.8	3.5	4.0	1.8	.9	1.3	5.1	.4	3.5
14	18.1	14.0	15.5	4.3	3.5	3.9	2.7	1.8	2.1	1.5	.3	.9
15	17.2	16.1	16.2	4.7	4.0	4.4	2.9	2.5	2.7	2.1	1.5	1.8
16	16.2	15.7	15.9	4.6	3.5	4.0	3.7	2.9	3.2	2.3	1.9	2.1
17	15.8	15.0	15.2	4.0	2.5	3.3	3.8	3.4	3.6	2.5	2.3	2.4
18	15.4	14.9	15.2	4.3	3.4	4.0	3.9	3.4	3.7	2.7	2.3	2.6
19	16.1	15.4	15.7	4.4	3.3	3.7	4.1	3.6	3.8	2.9	2.6	2.8
20	16.9	15.9	16.3	3.5	2.0	2.5	4.0	3.6	3.8	3.0	2.8	2.9
21	17.1	16.6	16.8	4.1	2.4	3.4	4.4	3.8	4.1	3.1	2.9	3.0
22	17.2	16.8	17.0	4.5	4.0	4.2	4.5	4.0	4.2	3.2	3.0	3.2
23	17.5	17.1	17.4	4.5	4.0	4.2	4.8	4.0	4.4	3.3	3.2	3.3
24	17.7	17.5	17.6	4.6	4.1	4.4	4.9	4.2	4.5	3.6	3.3	3.5
25	18.3	17.6	17.8	4.5	4.0	4.2	4.6	4.3	4.4	3.7	3.5	3.6
26	18.5	17.8	18.1	4.1	3.5	3.8	4.7	4.3	4.5	3.9	3.7	3.8
27	18.0	17.9	18.0	4.2	3.0	3.6	4.6	4.2	4.3	3.9	3.7	3.8
28	18.1	17.5	17.9	4.8	4.1	4.5	4.6	4.1	4.2	4.1	.0	2.6
29	17.6	16.9	17.2	4.7	3.8	4.3	4.7	4.3	4.5	.5	-.2	.1
30	17.3	16.9	17.1	4.4	3.5	4.1	4.8	4.2	4.4	1.8	.5	1.3
31	17.6	17.2	17.4	---	---	---	4.6	4.1	4.3	2.1	1.8	1.9
MONTH	20.8	11.0	15.9	18.8	2.0	7.1	4.9	-.2	3.4	5.1	-.2	3.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.4	2.1	2.3	4.0	3.5	3.7	11.0	10.0	10.4	20.5	19.0	19.6
2	2.6	2.3	2.5	4.1	3.5	3.9	10.1	9.6	9.9	20.7	19.2	19.8
3	2.6	2.1	2.4	3.7	3.2	3.5	10.5	9.6	10.2	21.9	19.4	19.9
4	2.6	2.0	2.2	6.1	3.7	4.7	10.6	9.8	10.2	20.1	18.2	19.1
5	2.9	2.3	2.7	5.8	3.9	5.2	12.5	10.6	11.6	20.4	18.6	19.4
6	3.1	2.8	2.9	6.4	5.0	5.6	13.2	12.0	12.3	20.3	18.8	19.4
7	3.2	2.9	3.1	6.6	5.4	6.0	17.3	12.2	15.3	21.7	18.6	19.9
8	3.5	2.6	3.2	7.0	5.4	6.3	17.9	15.4	16.7	21.3	19.7	20.5
9	3.3	.4	1.5	7.7	5.5	6.6	20.4	17.2	18.7	21.9	20.3	21.0
10	2.1	.8	1.5	8.3	6.8	7.4	19.2	18.0	18.5	21.3	19.2	20.2
11	3.0	1.9	2.4	8.1	7.3	7.6	19.6	17.1	18.3	20.6	19.7	20.0
12	3.9	2.0	3.1	8.8	7.3	8.0	17.7	15.2	16.4	20.3	19.7	19.9
13	3.8	3.7	3.7	9.3	7.5	8.4	17.3	16.0	16.6	21.0	20.0	20.5
14	3.9	3.6	3.8	11.1	8.7	9.5	18.6	14.2	16.9	23.8	20.8	22.0
15	3.9	3.7	3.8	11.3	6.1	9.4	15.3	13.4	14.4	25.6	22.6	23.4
16	3.7	2.6	3.1	6.3	4.9	5.5	15.3	12.9	14.4	24.5	23.1	23.7
17	3.0	2.6	2.9	8.0	6.0	6.7	12.9	10.7	11.5	26.2	22.8	24.0
18	3.1	2.9	3.0	9.1	5.6	7.2	13.1	10.9	11.9	22.8	21.8	22.1
19	3.4	3.0	3.2	9.1	7.7	8.5	13.6	12.2	12.8	22.0	21.4	21.5
20	4.1	3.3	3.7	9.7	8.8	9.2	15.3	13.3	14.1	22.0	20.0	21.2
21	4.1	1.8	2.9	10.8	9.5	10.0	18.5	14.6	17.0	20.0	18.2	18.9
22	3.3	1.4	2.6	11.1	9.9	10.4	19.6	17.2	18.4	18.7	17.3	18.0
23	3.3	2.4	2.6	11.3	10.0	10.6	19.3	16.7	17.6	18.2	16.9	17.6
24	7.3	2.5	4.7	11.2	9.9	10.6	16.9	15.7	16.3	17.6	16.1	16.7
25	7.2	5.6	6.5	10.3	8.5	9.4	17.2	16.3	16.8	17.0	15.1	16.0
26	6.2	4.9	5.5	9.2	7.4	8.4	17.4	16.8	17.0	18.2	16.1	17.1
27	7.3	3.6	5.7	9.8	7.6	8.7	18.8	17.0	17.8	19.5	17.5	18.3
28	4.1	2.9	3.7	9.3	7.8	8.4	18.3	17.4	17.9	22.3	19.0	19.8
29	---	---	---	9.1	7.5	8.1	18.3	17.6	18.0	22.1	20.1	21.0
30	---	---	---	9.9	8.4	9.0	21.6	17.8	18.9	21.2	19.0	20.1
31	---	---	---	11.4	9.0	10.1	---	---	---	19.0	17.5	18.2
MONTH	7.3	.4	3.3	11.4	3.2	7.6	21.6	9.6	15.2	26.2	15.1	20.0

06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO--Continued

TEMPERATURE, WATER (Deg. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.1	16.6	17.9	28.2	26.2	26.9	29.8	28.3	28.9	24.5	23.7	24.1
2	18.9	17.7	18.3	28.1	26.5	27.1	30.6	29.0	29.5	24.7	24.1	24.3
3	19.2	16.4	17.8	28.8	27.0	27.6	31.5	29.5	30.2	25.7	24.6	25.0
4	16.9	13.9	15.6	28.8	27.3	27.9	30.7	29.8	30.2	27.4	25.5	26.2
5	18.6	16.6	17.1	29.9	28.1	28.8	30.9	29.7	30.2	26.7	25.6	26.1
6	20.1	16.9	18.6	29.2	27.8	28.5	30.8	29.7	30.2	26.4	25.5	25.8
7	20.0	18.5	19.2	29.9	28.3	28.9	30.1	29.0	29.5	25.7	24.2	25.1
8	21.7	19.9	20.7	30.0	28.9	29.3	29.4	28.8	29.2	24.6	23.5	23.9
9	22.6	20.1	21.4	30.0	29.2	29.6	30.2	29.0	29.2	23.7	22.4	23.1
10	24.4	21.9	22.9	30.1	28.9	29.3	29.8	27.3	28.4	22.8	21.5	22.2
11	26.4	23.6	24.9	29.6	25.4	26.9	27.3	25.7	26.2	22.7	21.8	22.2
12	27.3	25.3	26.0	26.4	22.2	23.2	26.1	25.4	25.8	22.6	21.8	22.2
13	26.5	25.2	25.9	24.1	22.1	22.7	26.7	25.9	26.2	23.8	22.3	22.6
14	26.3	23.2	25.1	24.2	22.9	23.6	27.1	25.7	26.2	23.5	21.4	22.2
15	24.3	22.3	23.0	25.0	24.1	24.5	26.2	24.5	25.1	21.4	19.8	20.5
16	24.8	23.2	23.9	25.7	24.8	25.1	25.6	23.6	24.4	19.8	18.5	19.1
17	25.5	24.1	24.8	27.6	25.3	26.2	25.1	24.1	24.5	19.7	18.8	19.3
18	26.4	24.5	25.2	28.1	26.8	27.4	25.7	23.7	24.5	19.7	19.2	19.4
19	25.8	20.7	24.2	28.8	27.5	28.3	24.9	23.6	24.1	20.4	18.5	19.3
20	21.1	18.3	19.3	29.9	28.6	29.1	25.8	23.9	24.7	21.4	19.6	20.1
21	21.8	19.6	20.4	30.4	29.4	29.8	26.1	24.5	25.1	21.9	20.6	21.2
22	22.2	21.1	21.6	31.0	29.8	30.3	26.9	25.4	25.9	21.7	20.9	21.2
23	23.1	21.2	22.1	31.0	30.2	30.6	26.3	23.8	24.7	21.3	19.6	20.3
24	25.7	22.9	24.0	30.8	30.3	30.5	24.4	24.1	24.2	19.6	18.4	18.9
25	26.6	25.0	25.7	30.7	28.8	29.4	25.0	22.2	23.0	18.8	17.3	17.9
26	26.5	25.9	26.2	28.8	27.2	28.0	23.9	23.0	23.5	18.2	17.1	17.6
27	27.9	25.7	26.3	27.2	25.2	26.4	25.1	23.9	24.4	18.1	17.3	17.7
28	25.7	24.4	24.9	26.4	24.1	24.7	26.0	24.8	25.3	19.5	17.9	18.6
29	26.6	24.9	25.4	25.7	24.3	24.7	28.0	25.7	26.2	19.4	17.9	18.6
30	26.7	25.8	26.3	27.6	25.6	26.3	27.3	24.1	25.8	18.5	17.9	18.2
31	---	---	---	28.7	27.4	27.9	25.0	23.4	23.9	---	---	---
MONTH	27.9	13.9	22.5	31.0	22.1	27.4	31.5	22.2	26.4	27.4	17.1	21.4

06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.2	7.0	7.1	8.9	6.8	8.1	7.7	7.6	7.7	---	---	---
2	7.2	7.0	7.1	9.2	6.6	8.2	7.7	7.6	7.6	---	---	---
3	7.1	6.8	7.0	9.0	8.9	8.9	7.6	7.5	7.5	---	---	---
4	7.8	6.7	7.1	8.9	8.9	8.9	7.6	7.5	7.6	---	---	---
5	8.1	7.4	7.8	8.9	6.4	8.8	---	---	---	---	---	---
6	7.7	7.5	7.6	6.6	5.5	6.2	---	---	---	---	---	---
7	7.8	7.6	7.7	6.9	6.5	6.6	---	---	---	---	---	---
8	7.8	7.5	7.7	8.8	6.9	7.6	---	---	---	---	---	---
9	7.7	7.5	7.6	7.0	6.8	6.8	---	---	---	---	---	---
10	7.6	7.4	7.5	7.4	7.0	7.4	---	---	---	---	---	---
11	7.6	7.4	7.5	7.5	7.3	7.4	---	---	---	---	---	---
12	---	---	---	7.5	7.2	7.4	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	8.2	7.1	7.4	---	---	---	---	---	---	---	---	---
15	8.1	7.3	7.6	7.4	7.3	7.4	---	---	---	---	---	---
16	9.1	7.4	7.8	7.5	7.4	7.4	---	---	---	---	---	---
17	9.2	7.9	9.0	7.5	7.4	7.5	---	---	---	---	---	---
18	8.9	8.8	8.9	7.4	7.4	7.4	---	---	---	---	---	---
19	8.8	8.7	8.8	7.5	7.4	7.5	---	---	---	---	---	---
20	8.7	8.6	8.7	7.6	7.5	7.5	---	---	---	---	---	---
21	8.7	8.6	8.6	7.5	7.3	7.4	---	---	---	---	---	---
22	8.7	6.6	7.9	7.4	7.3	7.3	---	---	---	---	---	---
23	9.7	5.9	7.7	7.4	7.4	7.4	---	---	---	---	---	---
24	8.7	8.4	8.5	7.5	7.4	7.5	---	---	---	---	---	---
25	8.4	8.2	8.3	7.6	7.5	7.5	---	---	---	---	---	---
26	8.2	8.1	8.2	7.6	7.5	7.5	---	---	---	---	---	---
27	8.1	8.1	8.1	7.6	7.5	7.5	---	---	---	---	---	---
28	8.4	8.1	8.2	7.6	7.5	7.6	---	---	---	---	---	---
29	8.5	8.4	8.5	7.7	7.6	7.6	---	---	---	---	---	---
30	8.6	7.8	8.4	7.7	7.6	7.6	---	---	---	---	---	---
31	8.9	8.2	8.6	---	---	---	---	---	---	---	---	---
MONTH	9.7	5.9	8.0	9.2	5.5	7.6	7.7	7.5	7.6	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	8.9	7.4	8.2	9.4	7.9	8.8	7.7	7.3	7.4
2	---	---	---	8.9	8.1	8.5	9.2	8.7	9.0	8.5	7.2	7.7
3	---	---	---	8.9	8.4	8.7	9.2	8.5	8.9	9.1	7.3	8.2
4	---	---	---	8.8	8.1	8.4	9.1	8.1	8.7	9.2	7.6	8.7
5	---	---	---	8.4	7.9	8.3	9.0	8.3	8.7	9.2	7.7	8.7
6	---	---	---	8.4	7.9	8.1	9.0	8.1	8.7	9.0	7.9	8.6
7	---	---	---	8.7	7.9	8.2	9.2	8.4	8.8	8.7	7.8	8.2
8	---	---	---	8.8	8.1	8.4	9.2	8.5	8.9	8.0	7.5	7.8
9	---	---	---	9.0	8.1	8.6	9.2	8.5	8.9	7.9	7.4	7.7
10	---	---	---	9.0	7.7	8.3	8.9	8.3	8.7	8.3	7.4	7.9
11	---	---	---	8.4	7.4	7.7	9.2	8.1	8.7	8.9	7.5	8.2
12	---	---	---	8.3	7.4	7.7	9.3	8.2	8.9	9.1	7.7	8.5
13	---	---	---	7.5	7.3	7.4	9.3	8.3	8.9	9.2	8.1	8.7
14	---	---	---	8.3	7.4	7.8	9.1	8.4	8.8	8.9	8.5	8.7
15	---	---	---	8.9	7.7	8.3	9.1	8.2	8.6	8.7	7.8	8.4
16	---	---	---	9.4	8.3	9.0	8.9	7.6	8.4	8.1	7.4	7.8
17	---	---	---	9.4	9.0	9.2	9.0	7.9	8.5	8.1	7.4	7.8
18	---	---	---	9.1	8.3	8.8	9.0	7.5	8.4	7.7	7.3	7.5
19	---	---	---	8.7	7.6	8.1	9.1	8.2	8.6	7.5	7.1	7.3
20	---	---	---	8.6	7.4	8.0	9.1	8.0	8.7	7.4	7.1	7.2
21	---	---	---	8.9	7.7	8.4	9.1	8.6	8.9	7.6	7.1	7.4
22	7.9	7.8	7.8	8.9	8.1	8.6	9.1	8.6	8.9	7.6	7.3	7.4
23	7.9	7.7	7.8	8.8	8.1	8.5	8.7	7.7	7.9	7.8	7.3	7.6
24	8.1	7.8	8.0	8.5	8.0	8.2	8.0	7.6	7.7	7.5	7.3	7.3
25	8.7	7.9	8.3	8.2	7.7	7.9	8.6	7.4	7.9	7.6	7.2	7.4
26	8.6	8.1	8.4	7.8	7.5	7.7	7.7	7.3	7.5	7.7	7.3	7.5
27	8.6	7.8	8.2	8.2	7.5	7.7	8.9	7.3	8.1	7.8	7.3	7.5
28	8.0	7.5	7.7	8.0	7.4	7.7	9.5	7.5	8.7	8.1	7.3	7.7
29	8.9	7.5	8.1	7.8	7.4	7.6	9.8	8.1	9.1	8.5	7.3	7.9
30	8.9	7.4	8.2	8.4	7.3	7.7	9.3	7.8	8.5	9.3	7.4	8.3
31	---	---	---	9.0	7.4	8.3	7.9	7.3	7.6	---	---	---
MONTH	8.9	7.4	8.1	9.4	7.3	8.2	9.8	7.3	8.6	9.3	7.1	7.9

06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO--Continued

SPECIFIC CONDUCTANCE (microsiemens/cm at 25 °C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	345	323	332	618	369	563	1030	1020	1030	---	---	---
2	368	345	356	589	494	519	1040	1030	1030	---	---	---
3	391	364	375	495	465	477	1050	1040	1040	---	---	---
4	441	368	410	465	459	462	1050	1040	1050	---	---	---
5	432	250	306	461	349	453	---	---	---	---	---	---
6	307	277	298	381	134	238	---	---	---	---	---	---
7	338	305	317	222	168	201	---	---	---	---	---	---
8	341	328	337	287	222	242	---	---	---	---	---	---
9	336	327	332	520	287	435	---	---	---	---	---	---
10	359	335	347	600	520	556	---	---	---	---	---	---
11	415	359	380	636	600	618	---	---	---	---	---	---
12	---	---	---	675	636	654	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	389	209	297	---	---	---	---	---	---	---	---	---
15	272	110	223	777	752	762	---	---	---	---	---	---
16	291	257	272	788	773	781	---	---	---	---	---	---
17	306	266	277	798	788	792	---	---	---	---	---	---
18	341	306	332	818	798	812	---	---	---	---	---	---
19	349	340	346	839	817	831	---	---	---	---	---	---
20	377	348	361	853	831	844	---	---	---	---	---	---
21	469	377	412	880	850	866	---	---	---	---	---	---
22	538	469	503	939	880	905	---	---	---	---	---	---
23	541	114	261	978	938	960	---	---	---	---	---	---
24	379	303	332	996	978	989	---	---	---	---	---	---
25	384	325	358	993	965	978	---	---	---	---	---	---
26	382	352	368	972	966	969	---	---	---	---	---	---
27	446	382	425	979	972	975	---	---	---	---	---	---
28	452	378	418	1020	979	1000	---	---	---	---	---	---
29	393	362	372	1020	1010	1010	---	---	---	---	---	---
30	473	393	425	1020	1020	1020	---	---	---	---	---	---
31	517	473	497	---	---	---	---	---	---	---	---	---
MONTH	541	110	354	1020	134	711	1050	1020	1040	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	422	396	413	265	242	250	188	167	178
2	---	---	---	425	413	420	293	263	272	208	187	197
3	---	---	---	425	411	418	312	280	293	227	207	213
4	---	---	---	443	414	431	329	284	311	235	219	227
5	---	---	---	460	440	450	350	317	334	243	231	238
6	---	---	---	470	456	464	383	335	360	285	242	260
7	---	---	---	501	468	484	406	376	389	319	268	294
8	---	---	---	513	479	503	410	390	400	561	312	497
9	---	---	---	521	470	500	420	408	415	477	437	468
10	---	---	---	535	481	509	465	419	439	463	440	452
11	---	---	---	607	293	413	464	443	450	440	417	429
12	---	---	---	310	97	160	473	451	456	425	396	414
13	---	---	---	194	156	174	474	455	462	416	376	397
14	---	---	---	225	193	207	487	472	479	382	378	380
15	---	---	---	247	223	233	507	477	491	386	380	382
16	---	---	---	265	245	253	496	483	489	453	278	408
17	---	---	---	272	235	258	506	491	498	451	92	161
18	---	---	---	304	238	272	520	506	514	247	136	186
19	---	---	---	332	302	313	531	498	521	245	207	227
20	---	---	---	369	320	345	541	484	523	255	239	244
21	---	---	---	384	354	367	534	484	520	294	255	276
22	662	519	603	404	384	393	543	268	437	347	294	311
23	745	662	708	427	404	414	530	225	345	457	331	362
24	791	745	767	446	423	435	245	202	229	352	334	344
25	792	762	781	456	435	449	238	84	160	365	351	356
26	798	684	746	469	452	459	216	188	205	372	365	369
27	756	567	694	516	331	476	240	216	227	379	362	376
28	572	484	527	499	156	252	263	233	248	387	377	382
29	493	445	474	194	164	178	271	233	259	391	383	387
30	458	407	437	218	193	202	273	174	239	396	361	383
31	---	---	---	243	216	224	180	157	169	---	---	---
MONTH	798	407	637	607	97	357	543	84	367	561	92	327

06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO--Continued

OXYGEN DISSOLVED (mg/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.1	.9	3.6	5.9	.6	1.6	12.4	11.0	12.1	---	---	---
2	5.0	1.5	3.5	3.2	.7	1.0	12.5	11.5	12.0	---	---	---
3	5.5	1.0	2.5	.9	.7	.8	12.3	10.6	11.5	---	---	---
4	8.9	2.8	6.6	.9	.8	.9	12.8	11.5	12.0	---	---	---
5	8.6	3.9	6.2	4.1	.9	1.1	---	---	---	---	---	---
6	5.0	1.6	3.2	9.4	2.2	6.0	---	---	---	---	---	---
7	3.4	1.7	2.3	6.2	1.5	4.2	---	---	---	---	---	---
8	1.8	1.4	1.6	2.6	1.2	1.6	---	---	---	---	---	---
9	1.6	1.4	1.5	4.5	2.0	3.2	---	---	---	---	---	---
10	1.8	1.4	1.5	2.0	1.5	1.7	---	---	---	---	---	---
11	3.3	1.5	2.1	2.0	1.5	1.7	---	---	---	---	---	---
12	---	---	---	2.2	1.6	1.8	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	9.1	.6	3.6	---	---	---	---	---	---	---	---	---
15	9.6	.6	3.3	8.9	7.3	8.1	---	---	---	---	---	---
16	1.1	.7	.8	10.1	8.9	9.6	---	---	---	---	---	---
17	1.1	.7	.8	10.3	9.0	10.0	---	---	---	---	---	---
18	1.0	.8	.8	9.3	8.3	8.8	---	---	---	---	---	---
19	1.0	.9	.9	11.0	8.5	10.3	---	---	---	---	---	---
20	1.0	.9	1.0	12.3	10.9	11.8	---	---	---	---	---	---
21	1.2	1.0	1.1	11.7	7.3	9.2	---	---	---	---	---	---
22	3.8	1.1	1.6	8.4	7.3	7.6	---	---	---	---	---	---
23	8.9	1.1	3.8	9.3	8.4	8.9	---	---	---	---	---	---
24	1.4	1.2	1.2	10.2	9.1	9.5	---	---	---	---	---	---
25	1.4	1.3	1.3	11.6	9.3	10.4	---	---	---	---	---	---
26	1.5	1.4	1.4	11.5	10.3	11.1	---	---	---	---	---	---
27	1.6	1.5	1.5	11.3	10.1	10.6	---	---	---	---	---	---
28	1.7	1.6	1.6	11.8	9.9	10.6	---	---	---	---	---	---
29	1.7	1.6	1.6	12.6	11.3	11.9	---	---	---	---	---	---
30	1.8	.5	1.3	12.0	10.4	11.3	---	---	---	---	---	---
31	.6	.5	.6	---	---	---	---	---	---	---	---	---
MONTH	9.6	.5	2.2	12.6	.6	6.6	12.8	10.6	11.9	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	11.7	2.6	7.2	14.7	6.8	10.4	4.7	.1	2.4
2	---	---	---	12.2	4.4	7.6	12.7	7.4	10.0	7.0	.2	4.1
3	---	---	---	12.6	7.1	10.2	10.8	4.7	8.4	12.4	1.3	7.0
4	---	---	---	11.7	5.5	8.7	11.0	3.2	7.5	12.9	4.1	8.9
5	---	---	---	8.4	5.8	7.5	11.4	4.7	7.8	11.4	2.7	8.2
6	---	---	---	9.2	4.8	6.8	12.0	4.7	8.4	10.3	3.5	7.3
7	---	---	---	11.1	5.3	7.4	14.3	5.9	9.9	8.8	4.9	6.6
8	---	---	---	11.2	6.0	8.2	12.7	5.5	9.3	7.2	4.3	6.1
9	---	---	---	15.8	6.3	11.1	13.3	4.9	9.2	7.2	2.8	5.4
10	---	---	---	14.3	4.7	9.4	9.6	4.5	6.7	9.6	2.7	6.7
11	---	---	---	8.2	4.0	6.2	13.7	2.8	7.6	13.1	3.6	8.6
12	---	---	---	8.6	4.3	6.7	15.1	2.9	8.8	14.7	5.6	9.8
13	---	---	---	5.9	3.9	5.2	14.5	2.7	8.2	15.1	7.5	10.6
14	---	---	---	8.9	5.3	6.8	10.2	1.6	6.1	10.9	7.7	9.5
15	---	---	---	12.0	6.7	9.2	10.5	1.9	4.7	8.4	3.3	6.0
16	---	---	---	17.3	8.4	12.1	10.7	.9	6.2	7.2	1.1	4.4
17	---	---	---	17.0	9.7	13.4	12.1	2.8	6.7	7.6	1.6	5.3
18	---	---	---	14.3	6.4	10.4	12.2	1.1	7.3	7.5	1.9	5.3
19	---	---	---	7.9	.9	4.9	17.2	4.2	9.6	5.8	.8	3.3
20	---	---	---	8.6	.5	5.2	12.6	5.4	9.5	5.1	.3	2.7
21	---	---	---	12.0	3.4	7.7	13.5	8.0	10.8	6.4	.7	4.0
22	8.4	6.5	7.3	12.6	4.9	8.7	13.5	8.4	10.7	5.7	1.6	4.2
23	7.2	5.5	6.3	9.8	5.4	7.9	8.4	3.2	5.5	7.4	1.9	5.2
24	8.6	6.5	7.5	8.2	4.6	6.3	5.8	1.8	3.9	5.2	1.3	2.6
25	15.2	8.1	10.9	7.1	3.6	5.5	8.3	2.8	6.5	6.3	.6	3.4
26	23.3	12.2	16.3	5.8	3.1	4.6	6.4	1.7	4.0	6.3	1.1	4.3
27	20.2	6.8	14.4	9.7	3.6	6.1	11.0	3.1	7.0	7.6	1.2	4.9
28	8.2	4.0	6.1	9.0	3.8	6.4	17.7	4.4	10.0	8.9	1.4	5.9
29	13.9	4.9	8.2	8.9	2.5	6.6	19.1	5.0	11.6	11.5	1.9	7.1
30	14.1	3.2	8.1	10.6	3.7	7.8	12.3	3.0	7.3	19.5	1.9	10.6
31	---	---	---	13.1	5.2	9.2	3.5	.2	2.2	---	---	---
MONTH	23.3	3.2	9.5	17.3	.5	7.8	19.1	.2	7.8	19.5	.1	6.0

06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO--Continued

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18	14	16	90	12	19	7.0	5.3	6.5	---	---	---
2	19	13	15	48	35	41	6.9	5.4	6.3	---	---	---
3	33	14	17	35	26	29	8.0	5.1	5.8	---	---	---
4	200	18	27	26	23	25	7.4	5.8	6.6	---	---	---
5	1000	87	610	47	23	26	---	---	---	---	---	---
6	720	470	580	110	41	65	---	---	---	---	---	---
7	530	450	490	80	68	72	---	---	---	---	---	---
8	450	310	e380	69	46	e58	---	---	---	---	---	---
9	310	180	e240	46	35	e40	---	---	---	---	---	---
10	180	110	e140	35	26	e30	---	---	---	---	---	---
11	110	55	e84	26	22	e24	---	---	---	---	---	---
12	---	---	---	22	18	e21	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	910	18	140	---	---	---	---	---	---	---	---	---
15	---	---	---	12	11	11	---	---	---	---	---	---
16	---	---	---	12	10	11	---	---	---	---	---	---
17	---	---	---	11	8.2	9.6	---	---	---	---	---	---
18	---	---	---	8.9	6.9	8.1	---	---	---	---	---	---
19	---	---	---	9.6	6.9	8.4	---	---	---	---	---	---
20	---	---	---	9.2	7.2	8.4	---	---	---	---	---	---
21	---	---	---	7.3	4.8	6.0	---	---	---	---	---	---
22	---	---	---	5.9	4.7	5.0	---	---	---	---	---	---
23	---	---	---	5.2	4.7	4.9	---	---	---	---	---	---
24	---	---	---	5.4	4.5	4.9	---	---	---	---	---	---
25	---	---	---	6.5	4.3	5.3	---	---	---	---	---	---
26	---	---	---	5.7	4.5	5.1	---	---	---	---	---	---
27	---	---	---	6.0	4.5	5.1	---	---	---	---	---	---
28	---	---	---	8.3	4.6	6.0	---	---	---	---	---	---
29	---	---	---	8.2	5.4	6.9	---	---	---	---	---	---
30	---	---	---	6.9	4.7	5.6	---	---	---	---	---	---
31	15	12	13	---	---	---	---	---	---	---	---	---
MONTH	1000	12	210	110	4.3	20	8.0	5.1	6.3	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	86	4.0	37	17	2.0	4.7	29	14	19
2	---	---	---	30	3.0	6.5	13	2.0	4.1	18	7.0	10
3	---	---	---	10	3.0	4.9	10	2.0	3.9	29	3.0	6.2
4	---	---	---	10	2.0	4.4	9.0	2.0	4.2	12	2.0	3.8
5	---	---	---	12	2.0	4.2	20	2.0	5.8	12	1.0	4.9
6	---	---	---	15	4.0	5.4	26	3.0	7.7	34	1.0	7.8
7	---	---	---	77	4.0	19	35	4.0	12	31	3.0	7.2
8	---	---	---	47	12	27	28	5.0	13	23	4.0	6.9
9	---	---	---	20	6.0	9.2	38	10	18	12	2.0	4.0
10	---	---	---	21	6.0	11	36	16	26	5.0	1.0	2.7
11	---	---	---	120	6.0	40	45	18	31	17	1.0	3.7
12	---	---	---	950	20	140	56	15	31	9.0	.0	3.7
13	---	---	---	65	24	44	56	17	31	13	1.0	5.9
14	---	---	---	30	13	18	62	22	37	14	6.0	9.3
15	---	---	---	24	8.0	11	77	26	46	15	3.0	7.0
16	---	---	---	14	4.0	6.6	80	36	55	32	2.0	7.5
17	---	---	---	19	3.0	6.0	67	33	50	260	5.0	82
18	---	---	---	25	3.0	8.8	75	43	59	170	22	48
19	---	---	---	9.0	2.0	3.7	81	39	58	39	6.0	17
20	---	---	---	8.0	2.0	2.8	82	39	60	23	4.0	6.6
21	---	---	---	6.0	2.0	3.4	72	34	55	10	2.0	3.5
22	20	10	14	99	2.0	4.3	70	37	52	5.0	1.0	3.4
23	10	1.0	3.5	5.0	2.0	3.1	1100	53	230	29	3.0	16
24	2.0	1.0	1.3	7.0	2.0	3.0	180	13	47	13	4.0	8.8
25	8.0	1.0	2.9	12	2.0	5.3	1400	16	120	15	1.0	2.8
26	19	4.0	7.0	33	3.0	8.6	21	6.0	12	4.0	1.0	2.3
27	79	6.0	20	49	4.0	16	22	6.0	7.7	7.0	.0	2.3
28	79	19	45	590	17	120	21	3.0	6.8	4.0	.0	2.5
29	39	8.0	16	45	15	28	26	2.0	7.0	5.0	.0	2.8
30	57	5.0	25	23	5.0	10	450	3.0	73	84	1.0	5.2
31	---	---	---	17	3.0	5.1	120	19	56	---	---	---
MONTH	79	1.0	15	950	2.0	20	1400	2.0	39	260	.0	10

e Estimated

06893590 BLUE RIVER AT 12TH STREET IN KANSAS CITY, MO

LOCATION.--Lat 39°05'48", long 94°29'26" in NW $^1/_4$ NE $^1/_4$ SW $^1/_4$ sec. 6, T.49 N., R.32 W., Jackson County, Hydrologic Unit 10300101, on left downstream end of Twelfth Street Bridge, 5.0 mi above Missouri River, and at river mile 4.3.

DRAINAGE AREA.--258 mi^2.

PERIOD OF RECORD.--Sept. 3, 1980 to current year. Stage only from Sept. 3, 1980 to Sept. 30, 1999.

GAGE.--Water-stage recorder. Datum of gage 714.41 ft above sea level.

REMARKS.--Records fair except for August and estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge of 34,900 ft^3/s during flood of Sept. 13, 1977.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	72	e58	e40	168	260	125	86	390	116	56	125
2	29	129	56	e42	129	262	109	77	3040	201	51	84
3	27	80	57	e45	113	276	3310	156	958	106	49	67
4	29	43	57	e45	105	236	1290	803	8840	96	83	57
5	893	38	56	e60	98	201	373	e315	3790	88	62	52
6	363	967	55	79	95	170	264	e290	9480	133	54	64
7	86	614	55	96	91	152	216	e575	2450	97	52	93
8	57	223	56	90	298	135	179	e350	963	86	e47	259
9	44	320	54	87	2460	126	159	e310	436	82	e42	89
10	41	169	53	80	623	118	367	e425	277	298	e42	68
11	36	123	53	76	321	114	1610	e300	215	480	63	58
12	33	109	e45	86	276	120	408	e245	161	1700	e49	51
13	35	72	e49	121	255	115	274	e185	126	263	e45	48
14	451	65	e51	315	399	109	459	e150	149	110	e43	50
15	1950	66	e54	156	336	1470	2130	142	e210	85	e40	52
16	289	65	e60	115	218	2510	453	108	e190	72	72	156
17	157	58	e62	93	172	911	288	559	e175	65	62	926
18	79	57	e61	82	150	439	243	1610	e160	69	55	1330
19	60	53	e54	78	136	284	214	242	e245	63	52	757
20	42	54	e51	70	132	222	171	280	6480	90	50	191
21	35	54	e50	69	129	194	155	1180	e3900	63	e42	131
22	54	57	e50	65	119	199	143	285	e950	50	e36	86
23	923	59	e51	65	128	e215	166	182	e620	48	317	158
24	275	57	e51	63	2840	e180	132	134	e450	45	148	112
25	130	54	e51	59	2410	e160	118	138	e320	79	2130	76
26	75	56	e49	59	548	e150	109	121	218	76	242	64
27	56	58	e47	61	334	126	113	100	245	111	92	59
28	47	63	e46	120	293	155	105	84	509	389	67	51
29	50	e60	e43	1240	---	197	101	80	158	142	57	48
30	72	e59	e41	719	---	139	95	312	160	79	256	49
31	67	---	e40	255	---	130	---	691	---	65	724	---
MEAN	210	132	52.1	149	478	325	463	339	1542	176	167	180
MAX	1950	967	62	1240	2840	2510	3310	1610	9480	1700	2130	1330
MIN	27	38	40	40	91	109	95	77	126	45	36	48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	132	94.0	52.1	91.0	306	240	257	239	947	192	118	148
MAX	210	132	52.1	149	478	325	463	339	1542	209	167	180
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2000	2001	2001
MIN	54.4	56.2	52.1	32.5	141	156	50.8	139	352	176	68.7	115
(WY)	2000	2000	2001	2000	2000	2000	2000	2000	2000	2001	2000	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL MEAN	138		348		348	
HIGHEST ANNUAL MEAN					348	2001
LOWEST ANNUAL MEAN					348	2001
HIGHEST DAILY MEAN	2450	Jun 20	9480	Jun 6	9480	Jun 6 2001
LOWEST DAILY MEAN	23	Jun 9	27	Oct 3	22	Nov 10 1999
ANNUAL SEVEN-DAY MINIMUM	25	Jan 20	42	Dec 29	24	Nov 10 1999
MAXIMUM PEAK FLOW	---		13300	Jun 6	13300	Jun 6 2001
MAXIMUM PEAK STAGE	---		21.80	Jun 6	21.80	Jun 6 2001
INSTANTANEOUS LOW FLOW	---		26	Oct 3	20	Jun 9 2000
10 PERCENT EXCEEDS	279		650		392	
50 PERCENT EXCEEDS	54		112		72	
90 PERCENT EXCEEDS	28		49		29	

e Estimated

06893791 LONGVIEW RESERVOIR AT KANSAS CITY, MO

LOCATION.--Lat 38°55'29", long 94°27'35", SE $^1/_4$ NE $^1/_4$ NW $^1/_4$ sec.4, T.48 N., R.32 W., Jackson County, Hydrologic Unit 10300101, in the U.S. Army Corps of Engineers Administration Building at the right end of dam on Little Blue River at Kansas City, 3.1 mi upstream from Cedar Creek.

DRAINAGE AREA.--50.3 mi^2.

PERIOD OF RECORD.--October 1985 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by the U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by a rolled earthfill type dam. Closure began June 16, 1983. Storage began on Sept. 16, 1985. An uncontrolled limited service type spillway 200 ft wide is located at the left abutment. Capacity of surcharge pool 35,370 ac-ft (909.0 ft to 922.9 ft); of flood control pool 24,800 ac-ft (elevation 891.0 ft to 909.0 ft); and of multipurpose pool 22,100 ac-ft (elevation 816.0 ft to 891.0 ft). Lake is used for flood control, water-quality control, recreation, and fish and wildlife enhancement. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records furnished by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 37,100 ac-ft, May 16, 1990, elevation, 903.36 ft; minimum, 2,680 ac-ft, Oct. 1, 1985, elevation, 849.40 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 27,500 ac-ft, June 6, elevation, 896.13 ft; minimum, 21,900 ac-ft, Aug. 22, elevation, 890.74 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	890.96	891.18	891.07	891.08	891.67	891.95	891.35	891.27	891.54	891.36	891.14	891.31
2	890.94	891.16	891.07	891.08	891.59	891.85	891.33	891.24	892.75	891.30	891.10	891.26
3	890.93	891.15	891.07	891.07	891.52	891.81	891.36	891.22	892.42	891.26	891.08	891.23
4	890.92	891.14	891.06	891.08	891.47	891.74	892.85	891.23	893.97	891.21	891.06	891.20
5	891.01	891.12	891.05	891.07	891.43	891.66	892.54	891.33	894.12	891.18	891.04	891.17
6	891.18	891.15	891.06	891.08	891.39	891.60	892.28	891.34	896.13	891.15	891.02	891.14
7	891.16	891.49	891.06	891.09	891.36	891.55	892.07	891.47	895.42	891.13	891.00	891.13
8	891.11	891.44	891.04	891.10	891.34	891.50	891.89	891.43	893.95	891.10	890.97	891.23
9	891.14	891.47	891.04	891.11	891.97	891.46	891.76	891.38	893.05	891.08	890.95	891.21
10	891.12	891.43	891.04	891.12	892.16	891.43	891.67	891.37	892.53	891.13	890.94	891.18
11	891.10	891.39	891.05	891.12	891.98	891.39	893.17	891.38	892.19	891.23	890.91	891.15
12	891.09	891.35	891.05	891.13	891.85	891.39	892.77	891.36	891.95	891.61	890.89	891.13
13	891.08	891.31	891.06	891.14	891.75	891.37	892.38	891.32	891.78	891.79	890.87	891.11
14	891.07	891.28	891.09	891.23	891.75	891.35	892.11	891.29	891.64	891.66	890.85	891.10
15	891.64	891.25	891.09	891.26	891.74	891.46	892.55	891.26	891.64	891.55	890.83	891.08
16	891.65	891.22	891.10	891.25	891.66	892.27	892.31	891.22	891.54	891.46	890.85	891.05
17	891.58	891.20	891.09	891.24	891.59	892.21	892.06	891.20	891.47	891.40	890.84	891.15
18	891.46	891.18	891.08	891.23	891.52	892.03	891.89	891.49	891.40	891.34	890.82	891.27
19	891.42	891.16	891.08	891.22	891.48	891.89	891.76	891.44	891.34	891.28	890.80	891.66
20	891.37	891.14	891.08	891.21	891.43	891.77	891.66	891.38	892.62	891.23	890.77	891.59
21	891.32	891.13	891.08	891.20	891.40	891.68	891.59	891.84	893.32	891.20	890.75	891.50
22	891.30	891.12	891.08	891.19	891.38	891.62	891.54	891.74	892.83	891.16	890.74	891.43
23	891.30	891.11	891.08	891.18	891.37	891.60	891.64	891.63	892.40	891.12	890.80	891.41
24	891.30	891.11	891.08	891.17	891.69	891.54	891.58	891.52	892.09	891.09	890.80	891.36
25	891.28	891.10	891.07	891.17	893.09	891.49	891.51	891.46	891.87	891.14	891.22	891.31
26	891.25	891.10	891.07	891.17	892.63	891.44	891.46	891.40	891.70	891.12	891.22	891.28
27	891.24	891.09	891.08	891.16	892.30	891.41	891.41	891.35	891.62	891.10	891.21	891.25
28	891.22	891.09	891.08	891.17	892.11	891.38	891.38	891.31	891.57	891.22	891.19	891.23
29	891.20	891.09	891.08	891.43	---	891.41	891.33	891.27	891.48	891.23	891.16	891.20
30	891.20	891.08	891.08	891.85	---	891.39	891.30	891.28	891.41	891.20	891.35	891.17
31	891.18	---	891.08	891.77	---	891.37	---	891.58	---	891.17	891.35	---
MEAN	891.22	891.21	891.07	891.21	891.74	891.61	891.88	891.39	892.46	891.26	890.98	891.25
MAX	891.65	891.49	891.10	891.85	893.09	892.27	893.17	891.84	896.13	891.79	891.35	891.66
MIN	890.92	891.08	891.04	891.07	891.34	891.35	891.30	891.20	891.34	891.08	890.74	891.05
(-)	22300	22200	22200	22900	23200	22500	22400	22700	22500	22300	22500	22300
(=)	+200	-100	0	+700	+300	-700	-100	+300	-200	-200	+200	-200

CAL YR 2000....-100
WTR YR 2001....+200

(-) Contents, in acre-feet, at the end of the month.
(=) Change in contents, in acre-feet.

06893885 BLUE SPRINGS RESERVOIR NEAR BLUE SPRINGS, MO

LOCATION.--Lat 39°01'03", long 94°20'06", sec.33, T.49 N., R.31 W., Jackson County, Hydrologic Unit 10300101, in maintenance building at right end of dam on East Fork Little Blue River, 2.2 mi west of Blue Springs, and 2.5 mi upstream from mouth.

DRAINAGE AREA.--32.8 mi^2.

PERIOD OF RECORD.--August 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by the U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by a rolled earthfill type dam. An uncontrolled limited service type spillway 300 ft wide is located on left abutment. Capacity of surcharge pool, 3,310 ac-ft (elevation 820.3 to 823.6 ft); of flood control pool, 1,590 ac-ft (elevation 802.0 to 820.3 ft); and of multipurpose pool, 10,640 ac-ft (elevation 760.0 to 802.0 ft). U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records provided by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 22,800 ac-ft, May 17, 1990, elevation, 816.37 ft; minimum contents, 142 ac-ft, Oct. 22, 29, 30, and Nov. 1-11, 1988, elevation, 773.10 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 12,400 ac-ft, April 4, elevation, 804.06 ft; minimum, 10,700 ac-ft, Oct. 4, elevation, 801.75 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	801.79	802.38	802.21	802.15	802.60	803.18	802.63	802.64	802.52	802.78	802.46	803.32
2	801.77	802.38	802.21	802.15	802.61	803.11	802.59	802.61	802.59	802.69	802.43	803.22
3	801.77	802.37	802.20	802.14	802.60	803.05	802.61	802.58	802.58	802.63	802.40	803.13
4	801.75	802.37	802.19	802.15	802.60	803.00	804.06	802.59	803.42	802.58	802.37	803.03
5	801.88	802.35	802.19	802.15	802.60	802.95	804.03	802.57	804.65	802.53	802.33	802.94
6	801.91	802.38	802.18	802.15	802.58	802.90	803.80	802.55	806.38	802.49	802.31	802.87
7	801.90	802.48	802.17	802.15	802.56	802.86	803.63	802.70	807.83	802.45	802.29	802.81
8	801.87	802.45	802.17	802.13	802.56	802.82	803.43	802.66	807.21	802.42	802.25	802.82
9	801.86	802.49	802.16	802.15	802.81	802.78	803.30	802.63	806.24	802.40	802.24	802.76
10	801.86	802.48	802.16	802.15	803.01	802.74	803.15	802.65	805.15	802.37	802.37	802.70
11	801.85	802.47	802.16	802.16	803.03	802.73	803.35	802.65	804.33	802.36	802.38	802.66
12	801.83	802.47	802.16	802.17	803.04	802.71	803.52	802.63	803.80	802.65	802.41	802.62
13	801.83	802.45	802.17	802.17	803.02	802.68	803.40	802.60	803.47	802.75	802.42	802.58
14	801.84	802.43	802.19	802.22	803.03	802.65	803.29	802.58	803.21	802.78	802.42	802.54
15	802.32	802.42	802.19	802.23	803.00	802.74	803.50	802.55	803.06	802.78	802.41	802.48
16	802.37	802.40	802.18	802.23	802.97	802.99	803.63	802.51	802.95	802.77	802.42	802.44
17	802.41	802.38	802.18	802.24	802.92	803.07	803.50	802.50	802.85	802.74	802.41	802.48
18	802.44	802.37	802.17	802.25	802.89	803.08	803.35	802.56	802.76	802.70	802.42	802.55
19	802.45	802.34	802.17	802.25	802.85	803.07	803.24	802.55	802.70	802.66	802.38	802.92
20	802.44	802.31	802.15	802.25	802.81	803.04	803.16	802.53	802.98	802.63	802.36	803.00
21	802.43	802.32	802.17	802.25	802.76	803.00	803.08	802.59	804.11	802.59	802.35	803.01
22	802.42	802.30	802.16	802.25	802.75	802.96	803.01	802.58	804.71	802.56	802.31	802.97
23	802.43	802.29	802.17	802.25	802.71	802.92	803.04	802.55	804.32	802.51	802.35	802.95
24	802.43	802.28	802.15	802.25	802.81	802.88	802.97	802.53	803.91	802.47	802.38	802.88
25	802.42	802.28	802.15	802.25	803.24	802.83	802.92	802.51	803.59	802.45	802.80	802.82
26	802.41	802.26	802.16	802.25	803.37	802.79	802.87	802.49	803.34	802.45	802.82	802.78
27	802.40	802.25	802.16	802.25	803.32	802.75	802.83	802.47	803.17	802.42	802.80	802.72
28	802.38	802.24	802.15	802.27	803.27	802.72	802.78	802.44	803.03	802.57	802.76	802.68
29	802.37	802.23	802.14	802.40	---	802.71	802.73	802.42	802.92	802.54	802.72	802.63
30	802.38	802.22	802.15	802.54	---	802.68	802.69	802.43	802.86	802.52	802.88	802.57
31	802.37	---	802.16	802.57	---	802.67	---	802.52	---	802.48	803.33	---
MEAN	802.15	802.36	802.17	802.23	802.87	802.87	803.20	802.56	803.89	802.57	802.48	802.80
MAX	802.45	802.49	802.21	802.57	803.37	803.18	804.06	802.70	807.83	802.78	803.33	803.32
MIN	801.75	802.22	802.14	802.13	802.56	802.65	802.59	802.42	802.52	802.36	802.24	802.44
(-)	11200	11000	11000	11300	11800	11400	11400	11300	11500	11200	11900	11300
(=)	+500	-200	0	+300	+500	-400	0	-100	+200	-300	+700	-600

CAL YR 2000....+1270
WTR YR 2001....+ 600

(-) Contents, in acre-feet, at the end of the month.
(=) Change in contents, in acre-feet.

06894000 LITTLE BLUE RIVER NEAR LAKE CITY, MO

LOCATION.--Lat 39°06'02", long 94°18'01", in SW $^1/_4$ SE $^1/_4$ sec.35, T.50 N., R.31 W., Jackson County, Hydrologic Unit 10300101, on right bank 50 ft downstream from bridge on west bound lane of State Highway 78, 3.0 mi southwest of Lake City, and 10.5 mi upstream from mouth.

DRAINAGE AREA.--184 mi^2.

PERIOD OF RECORD.--March 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 719.15 ft above sea level. Prior to July 24, 1957, nonrecording gage at site 50 ft downstream at same datum; July 24, 1957, to Apr. 28, 1977, water-stage recorder; Apr. 29, 1977, to May 10, 1979, nonrecording gage; May 11, 1979, to Sept. 12, 1983, water-stage recorder at site 50 ft upstream at present datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	49	21	e13	125	305	101	e90	175	124	60	174
2	20	50	21	e11	90	288	98	83	620	106	e53	144
3	27	47	21	e12	74	279	e1900	114	605	93	e47	123
4	27	43	20	e14	68	240	e1350	130	e3610	85	41	104
5	254	41	20	e17	62	205	e810	107	e1720	73	38	90
6	89	255	17	e20	55	181	e570	102	e4960	64	34	80
7	32	221	17	e22	49	165	439	200	e2100	57	30	74
8	22	133	26	e22	173	149	337	126	1420	52	27	186
9	18	182	22	e22	994	137	275	102	1040	47	55	90
10	16	124	24	e20	401	124	287	147	e810	43	103	68
11	15	101	e22	e22	315	115	806	198	e540	83	65	58
12	16	89	e19	e23	270	118	595	110	e370	1440	39	51
13	21	76	e17	e35	251	110	430	92	266	310	34	46
14	208	65	e15	99	298	103	426	75	218	219	31	40
15	820	58	e15	67	253	587	1120	69	216	183	34	36
16	185	50	e17	47	206	956	573	63	148	157	34	46
17	131	44	e17	41	176	516	417	184	115	138	33	198
18	106	39	e15	36	158	375	329	271	93	124	32	671
19	90	36	e15	36	145	306	272	116	84	109	26	335
20	78	31	e14	31	126	258	233	124	e2190	97	23	184
21	71	28	e14	30	121	225	207	392	3180	89	21	151
22	74	28	e13	28	121	207	181	184	947	80	20	128
23	113	28	e13	29	114	195	275	137	624	72	80	145
24	102	25	e14	28	1660	168	182	107	431	64	107	112
25	70	24	e14	24	1020	149	157	95	323	87	886	90
26	64	23	e14	29	553	134	136	73	262	87	152	78
27	98	23	e14	25	423	122	121	61	224	136	98	69
28	54	22	e14	53	352	135	107	53	193	297	83	61
29	49	20	e14	449	---	140	95	47	162	125	74	54
30	48	20	e13	324	---	118	e93	125	161	87	632	48
31	50	---	e13	186	---	110	---	294	---	71	278	---
MEAN	96.2	65.8	16.9	58.5	309	233	431	131	927	155	105	124
MAX	820	255	26	449	1660	956	1900	392	4960	1440	886	671
MIN	15	20	13	11	49	103	93	47	84	43	20	36
IN.	.60	.40	.11	.37	1.75	1.46	2.61	.82	5.62	.97	.66	.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2001, BY WATER YEAR (WY)

MEAN	135	111	90.0	88.2	133	195	249	268	274	147	93.5	157
MAX	983	854	495	357	576	1153	1069	1534	1216	1103	1455	1018
(WY)	1987	1962	1993	1993	1985	1973	1983	1995	1967	1993	1982	1961
MIN	.13	.49	1.36	1.36	3.09	4.15	11.3	27.9	10.3	.26	.016	.20
(WY)	1954	1957	1956	1957	1957	1956	1954	1988	1953	1954	1953	1953

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1948 - 2001	
ANNUAL MEAN	57.3		219		162	
HIGHEST ANNUAL MEAN					440	1993
LOWEST ANNUAL MEAN					11.5	1956
HIGHEST DAILY MEAN	1510	Jun 20	4960	Jun 6	27700	Aug 13 1982
LOWEST DAILY MEAN	3.7	Sep 11	11	Jan 2	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	8.2	Aug 28	13	Dec 28	.00	Several Years
MAXIMUM PEAK FLOW	---		5650	Jun 4	42300	Aug 13 1982
MAXIMUM PEAK STAGE	---		17.80	Jun 4	27.94	Sep 14 1961
INSTANTANEOUS LOW FLOW	---		12[a]	Oct 1	.00	Several Years
ANNUAL RUNOFF (INCHES)	4.24		16.13		11.96	
10 PERCENT EXCEEDS	110		434		317	
50 PERCENT EXCEEDS	28		95		48	
90 PERCENT EXCEEDS	11		20		8.1	

e Estimated
[a] Minimum recorded, may have been less during period of ice effect, Dec. 15 to Jan. 12.

06895500 MISSOURI RIVER AT WAVERLY, MO

LOCATION.--Lat 39°12'54", long 93°30'54", sec.14, T.51 N., R.23 W., Lafayette County, Hydrologic Unit 10300101, on downstream side of pier of bridge on State Highway 24 and U.S. Highway 65 at Waverly and at mile 293.5.

DRAINAGE AREA.--487,200 mi^2, approximately.

PERIOD OF RECORD.--October 1928 to current year. Gage-height records collected at same site 1878-79, 1883-99 are contained in reports of the Missouri River Commission; since 1915 in reports of the National Weather Service. Daily discharge not computed Apr. 1, 1977, to Mar. 31, 1978.

REVISED RECORDS.--WDR MO-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 646.00 ft above sea level. Prior to Jan. 1, 1934, at datum 5.00 ft lower; Mar. 30, 1929, to Apr. 4, 1934, nonrecording gage; Apr. 5, 1934, to June 13, 1943, water-stage recorder; June 14, 1943, to Sept. 15, 1944, nonrecording gage; Sept. 16, 1944, to May 28, 1969, water-stage recorder all at present site and datum; May 29, 1969, to Jan. 8, 1984, water-stage recorder at site 450 ft downstream, present datum; Jan. 9, 1984, to May 24, 1984, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Some regulation from many upstream reservoirs. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40900	43300	37600	e23800	32600	67800	66500	85900	83400	74100	56600	45200
2	40400	44600	36400	e23700	29300	65100	64900	83800	89800	e74000	52600	42800
3	40500	48400	34200	e23700	26200	58000	63900	81500	84500	e71000	49100	43500
4	40400	48700	31800	e23600	25500	55400	74600	86700	100000	e69000	45400	42400
5	41300	46100	29700	e23400	25200	51200	69600	93900	139000	e71000	44000	40500
6	45400	45500	29000	23900	24300	46200	65900	107000	142000	e70000	43000	39600
7	43400	51800	28800	24300	24200	45900	61900	132000	159000	e64300	42700	39700
8	42800	56700	27600	24400	24900	49300	60700	128000	134000	e57600	41600	39900
9	42600	55000	26200	24600	34300	49400	61000	115000	106000	e53500	40600	39800
10	42400	51800	25900	24700	51800	47100	62700	105000	92800	51400	40100	40800
11	42400	49100	25400	24600	44100	45900	74400	99900	88200	49800	40000	44600
12	42100	46500	24500	24700	34700	48300	81600	104000	87000	58000	39000	42600
13	41400	44200	25100	25200	30600	59400	87100	108000	85500	79000	39000	40700
14	40600	42600	25800	26100	29500	83800	94200	97600	83100	73400	38800	40100
15	45100	41900	24000	28400	31200	89900	97900	91000	90800	61700	38800	40500
16	49400	41400	21800	29100	32400	113000	98000	89900	121000	53500	39000	40600
17	43800	41400	20500	29000	30400	e118000	91100	83800	120000	50900	38700	52800
18	42400	41300	19000	28900	28300	e105000	90800	86300	105000	49600	38900	82400
19	42400	41100	18100	28300	27500	86300	92200	82000	96400	48300	40200	93300
20	42100	41400	e18000	27900	26600	78000	90800	74500	120000	56700	39800	85400
21	41800	41600	e19000	27300	25800	73800	88200	73000	159000	79100	39700	72000
22	41500	41500	e21000	26300	26600	74800	89800	73200	168000	61700	39500	65200
23	42200	42400	e21400	25300	27900	85900	86700	82300	134000	52000	39300	61400
24	46000	42100	e20700	24400	30900	e100000	79000	78600	111000	48900	43300	64800
25	44700	41900	e19600	23600	72200	e101000	74700	71400	105000	46900	48100	72300
26	43100	42500	e20000	23200	108000	e94000	72600	67500	94300	45500	59000	64300
27	43400	42400	e21000	22900	88100	e84700	75600	66600	88300	47100	53900	58400
28	43400	41600	e21500	23400	72300	78700	81300	65400	85100	52300	48300	55900
29	42900	40200	e22300	25500	---	75100	84300	63400	81800	61100	46900	54500
30	42200	38600	e23100	34200	---	72100	86300	62200	77400	76700	44700	53500
31	43300	---	e23800	35100	---	69100	---	68300	---	66500	47600	---
MEAN	42780	44590	24610	25920	38050	73300	78940	87350	107700	60470	43810	53320
MAX	49400	56700	37600	35100	108000	118000	98000	132000	168000	79100	59000	93300
MIN	40400	38600	18000	22900	24200	45900	60700	62200	77400	45500	38700	39600
IN.	.10	.10	.06	.06	.08	.17	.18	.21	.25	.14	.10	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2001[a], BY WATER YEAR (WY)

MEAN	57990	53860	38530	30740	40370	56950	74630	76700	82540	74280	58040	58230
MAX	141900	116200	74470	65720	79780	133500	145500	168400	176600	306500	155700	121700
(WY)	1974	1999	1987	1973	1973	1979	1984	1995	1984	1993	1993	1993
MIN	35340	21620	13010	14770	16830	19250	37920	39350	41340	39120	34420	35380
(WY)	1992	1992	1964	1963	1964	1964	1989	1989	1988	1991	1991	1991

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1958 - 2001[a]	
ANNUAL MEAN	42920		56730		58720	
HIGHEST ANNUAL MEAN					109900	1993
LOWEST ANNUAL MEAN					35950	1963
HIGHEST DAILY MEAN	91500	Jun 28	168000	Jun 22	611000	Jul 28 1993
LOWEST DAILY MEAN	18000	Dec 20	18000	Dec 20	5000	Dec 20 1963
ANNUAL SEVEN-DAY MINIMUM	19600	Dec 17	19600	Dec 17	5540	Dec 17 1963
MAXIMUM PEAK FLOW	---		175000	Jun 22	633000	Jul 27 1993
MAXIMUM PEAK STAGE	---		25.59	Jun 22	31.15	Jul 27 1993
INSTANTANEOUS LOW FLOW	---		18000[b]	Dec 19	5000	Dec 20 1963
ANNUAL RUNOFF (INCHES)	1.20		1.58		1.64	
10 PERCENT EXCEEDS	52200		93900		98600	
50 PERCENT EXCEEDS	42400		47100		50000	
90 PERCENT EXCEEDS	32500		24700		25700	

e Estimated
[a] Post-regulation period.
[b] Minimum recorded, may have been less during period of estimated record, Dec. 20 to Jan. 5.

06896187 MIDDLE FORK GRAND RIVER NEAR GRANT CITY, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat. 40°27'17", long 94°24'12", in NW $^1/_4$ SW $^1/_4$ NW $^1/_4$ sec.9, T.65 N., R.31 W., Worth County, Hydrologic Unit 10280101. Located on Highway 169 approximately 2.0 mi south of the junction of Highway 169 and State Highway 46 in Grant City.

DRAINAGE AREA.--82.4 mi^2.

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
29...	0950	ENVIRONMENTAL	1.2	12.3	94	7.8	533	3.0	220	66.3	14.2	5.96
JAN												
04...	1040	ENVIRONMENTAL	.31	8.9	63	7.8	641	.5	--	--	--	--
MAR												
13...	1015	ENVIRONMENTAL	239	12.1	94	7.9	205	3.0	--	--	--	--
13...	1016	REPLICATE	--	--	--	--	--	--	--	--	--	--
MAY												
01...	1605	ENVIRONMENTAL	74	7.5	94	8.1	327	24.5	140	41.0	9.23	4.53
JUL												
12...	0945	ENVIRONMENTAL	4.2	8.1	99	8.3	501	23.5	--	--	--	--
SEP												
19...	1010	ENVIRONMENTAL	4.5	9.1	94	8.2	468	15.5	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
29...	21.1	194	194	237	0	19.2	.2	51.1	<10	317	.487	1.1	.248
JAN													
04...	--	249	248	303	0	--	--	--	--	--	.331	.68	.163
MAR													
13...	--	66	64	79	0	--	--	--	--	--	.663	2.9	1.73
13...	--	--	--	--	--	--	--	--	--	--	.637	2.9	1.74
MAY													
01...	10.1	123	123	150	0	10.7	.2	23.2	278	204	.048	2.8	.867
JUL													
12...	--	194	196	240	0	--	--	--	--	--	<.040	.36	<.050
SEP													
19...	--	179	179	219	0	--	--	--	--	--	<.040	.33	E.045

06896187 MIDDLE FORK GRAND RIVER NEAR GRANT CITY, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
29...	.008	E.030	.024	.069	14	K1400	1200	530	4	137	.7	<8.00	<.11
JAN													
04...	E.005	<.060	E.015	E.052	--	K170	K150	74	--	--	--	--	--
MAR													
13...	.022	.283	.227	.996	--	K38	1800	5800	--	--	--	--	--
13...	.022	.268	.219	1.04	--	--	--	--	--	--	--	--	--
MAY													
01...	.034	.138	.103	.809	45	K32000	K35000	K36000	7	6070	1.7	<8.00	.27
JUL													
12...	.006	E.054	.054	.092	--	140	290	K460	--	--	--	--	--
SEP													
19...	E.004	E.049	.035	.068	--	1100	1200	K11000	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV								
29...	<4.7	M	<.08	<1	--	<.14	2	4
JAN								
04...	--	--	--	--	--	--	--	--
MAR								
13...	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--
MAY								
01...	<4.7	10	.11	10	21.3	.03	5	35
JUL								
12...	--	--	--	--	--	--	--	--
SEP								
19...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

06896320 EAST FORK GRAND RIVER AT ALLENDALE, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 40°28'53", long 94°19'06", in SE $^1/_4$ NE $^1/_4$ NW $^1/_4$ sec.32, T.66 N., R.30 W., Worth County, Hydrologic Unit 10280101. Located in Allendale on Highway 46, approximately 1.6 mi west of the junction of Highway NN and State Highway 46.

DRAINAGE AREA.--211 mi^2.

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
29...	1230	ENVIRONMENTAL	1.6	12.6	92.3	8.0	479	1.5	225	65.2	15.1	4.41
JAN												
04...	1335	ENVIRONMENTAL	.94	7.2	52.2	7.8	594	.5	--	--	--	--
MAR												
13...	1320	ENVIRONMENTAL	e1110	11.2	85	8.0	167	2.5	--	--	--	--
MAY												
01...	1330	ENVIRONMENTAL	71	9.6	112	8.3	412	21.0	196	58.4	12.1	3.98
03...	0930	ENVIRONMENTAL	61	8.2	89	8.2	402	17.5	--	--	--	--
JUL												
12...	1400	ENVIRONMENTAL	12	8.6	109	8.5	460	26.0	--	--	--	--
SEP												
19...	1420	ENVIRONMENTAL	8.7	9.7	114	8.4	395	21.5	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
29...	13.6	218	218	264	0	7.6	.2	28.6	<10	284	.069	.45	.131
JAN													
04...	--	274	274	334	0	--	--	--	--	--	.224	.57	.163
MAR													
13...	--	63	60	73	0	--	--	--	--	--	.636	3.7	1.67
MAY													
01...	9.5	172	172	210	0	6.3	.2	32.7	143	244	<.041	.94	<.047
03...	--	169	170	207	0	--	--	--	--	--	<.041	.85	.221
JUL													
12...	--	215	215	253	5	--	--	--	--	--	<.040	.70	<.050
SEP													
19...	--	183	182	219	2	--	--	--	--	--	<.040	.54	.080

06896320 EAST FORK GRAND RIVER AT ALLENDALE, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITROGEN, NITRITE DISSOLVED (mg/L as N) (00613)	PHOSPHORUS DISSOLVED (mg/L as P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) (00671)	PHOSPHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEMICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	ARSENIC DISSOLVED (µg/L as As) (01000)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
29...	E.003	<.060	E.014	E.044	17	K2	100	330	4	61	.9	<8.00	<.11
JAN													
04...	.006	<.060	<.018	E.037	--	K28	44	85	--	--	--	--	--
MAR													
13...	.028	.132	.090	1.34	--	LA	K380	K6000	--	--	--	--	--
MAY													
01...	E.003	E.048	.027	.179	23	K1700	K2200	2100	8	1090	1.3	<8.00	E.06
03...	.013	.062	.051	.156	--	650	680	880	--	--	--	--	--
JUL													
12...	<.006	<.060	.029	.102	--	62	K880	170	--	--	--	--	--
SEP													
19...	E.005	<.060	.021	.083	--	930	340	980	--	--	--	--	--

DATE	COPPER, DISSOLVED (µg/L as Cu) (01040)	IRON, DISSOLVED (µg/L as Fe) (01046)	LEAD, DISSOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOVERABLE (µg/L as Pb) (01051)	MANGANESE, DISSOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOVERABLE (µg/L as Hg) (71900)	ZINC, DISSOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOVERABLE (µg/L as Zn) (01092)
NOV								
29...	<4.7	20	<.08	<1	--	<.14	1	3
JAN								
04...	--	--	--	--	--	--	--	--
MAR								
13...	--	--	--	--	--	--	--	--
MAY								
01...	<4.7	M	.09	2	40.7	<.01	4	6
03...	--	--	--	--	--	--	--	--
JUL								
12...	--	--	--	--	--	--	--	--
SEP								
19...	--	--	--	--	--	--	--	--

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.
LA-Laboratory Accident.

06897000 EAST FORK BIG CREEK NEAR BETHANY, MO

LOCATION.--Lat 40°17'50", long 94°01'36", in SE $^1/_4$ sec.34, T.64 N., R.28 W., Harrison County, on right bank 50 ft downstream from bridge on old U.S. Highway 69, 2 mi north of Bethany, and 4 mi upstream from confluence with West Fork.

DRAINAGE AREA.--95 mi^2, approximately.

PERIOD OF RECORD.--April 1934 to September 1972, October 1996 to September 1999, October 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 854.74 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.30	.63	3.5	e.50	e80	129	69	e11	847	9.9	24	2.6
2	e.20	1.7	3.5	e.50	e60	77	56	25	641	9.1	22	2.1
3	e.15	2.4	3.5	e.50	e50	71	61	19	224	14	17	1.9
4	e.10	4.5	3.4	e1.5	37	197	47	26	691	974	14	1.7
5	e.10	4.1	3.4	e2.0	35	173	70	54	441	308	15	1.6
6	e.09	9.0	3.4	e3.0	89	112	962	215	816	114	14	1.6
7	e.09	19	3.4	e3.5	133	90	274	142	296	55	12	1.8
8	e.09	9.6	3.4	e4.0	162	63	115	69	137	31	9.8	3.6
9	e.10	9.2	3.5	e3.5	638	58	113	e50	79	20	9.8	3.2
10	e.09	7.3	3.5	e3.5	421	64	246	e40	51	15	9.7	4.5
11	e.09	5.6	e3.5	5.7	281	135	285	e380	39	12	9.0	3.6
12	e.08	4.5	e3.0	6.4	188	262	380	92	28	11	8.2	2.8
13	.08	4.4	e2.5	13	126	267	118	294	21	10	7.3	2.3
14	.08	4.3	e2.0	e50	190	170	63	e350	27	9.6	5.4	2.1
15	.07	4.0	e1.5	e100	178	375	180	e92	257	9.7	3.3	1.9
16	.07	3.8	e1.5	e50	127	507	140	e44	125	10	3.3	2.1
17	.07	3.9	e1.0	e30	95	237	74	e61	68	8.9	3.4	2.5
18	.06	3.7	e1.0	e25	64	185	51	e75	144	10	3.9	3.3
19	.04	3.6	e.90	e18	85	215	41	35	134	8.8	3.6	5.7
20	.04	3.7	e.90	14	255	374	33	27	640	11	3.2	3.9
21	.04	3.6	e.90	9.3	196	443	28	27	1190	9.7	3.0	3.2
22	.07	3.5	e.80	9.8	134	541	87	20	470	7.6	2.7	3.0
23	.10	3.9	e.80	6.7	93	375	87	16	154	4.2	2.5	3.8
24	.11	3.9	e.70	4.7	1390	168	51	15	82	4.5	3.1	4.8
25	.13	4.0	e.50	4.8	1180	106	34	15	47	415	3.1	8.5
26	.14	4.3	e.50	4.4	503	72	23	15	30	177	2.6	4.5
27	.11	4.1	e.50	4.3	293	53	e17	13	21	58	2.4	3.2
28	.11	3.9	e.50	4.1	229	45	e15	13	16	102	2.1	2.7
29	.13	3.6	e.50	35	---	43	e13	11	13	61	2.3	2.3
30	.30	3.5	e.50	e140	---	48	e12	13	11	44	3.2	2.1
31	.29	---	e.50	e100	---	55	---	979	---	33	3.1	---
MEAN	.11	4.91	1.90	21.2	261	184	125	104	258	82.8	7.35	3.10
MAX	.30	19	3.5	140	1390	541	962	979	1190	974	24	8.5
MIN	.04	.63	.50	.50	35	43	12	11	11	4.2	2.1	1.6
IN.	.00	.06	.02	.26	2.86	2.24	1.47	1.27	3.03	1.01	.09	.04

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	27.3	28.4	15.9	25.1	67.8	88.7	81.8	76.7	113	33.1	15.8	33.5
MAX	140	313	78.1	240	349	341	305	332	932	284	94.1	425
(WY)	1960	1962	1945	1946	1937	1960	1944	1945	1947	1969	1959	1961
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1938	1938	1938	1939	1938	1956	1956	1956	1956	1936	1936	1937

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN			86.3		50.9	
HIGHEST ANNUAL MEAN					111	1947
LOWEST ANNUAL MEAN					2.27	1938
HIGHEST DAILY MEAN	19	Nov 7	1390	Feb 24	6200	Jun 6 1947
LOWEST DAILY MEAN	.04	Oct 19-21	.04	Oct 19-21	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	.06	Oct 15	.06	Oct 15	.00	Several Years
MAXIMUM PEAK FLOW	---		2660	Feb 24	8120	Jun 6 1947
MAXIMUM PEAK STAGE	---		13.22	Feb 24	17.65	Jun 6 1947
INSTANTANEOUS LOW FLOW	---		.03	Oct 14,18-22	.00	Several Years
ANNUAL RUNOFF (INCHES)	---		12.33		7.28	
10 PERCENT EXCEEDS	4.4		256		90	
50 PERCENT EXCEEDS	1.0		11		4.0	
90 PERCENT EXCEEDS	.08		.50		.00	

e Estimated

06897500 GRAND RIVER NEAR GALLATIN, MO

LOCATION.--Lat 39°55'37", long 93°56'33", in SW $^1/_4$ NW $^1/_4$ sec.16, T.59 N., R.27 W., Daviess County, Hydrologic Unit 10280101, on left bank 100 ft upstream from bridge on State Highway 6, 50 ft downstream from Chicago, Rock Island and Pacific Railroad Company Bridge, 1.0 mi northeast of Gallatin, 6.0 mi upstream from Honey Creek, and at mile 90.0.

DRAINAGE AREA.--2,250 mi^2, approximately.

PERIOD OF RECORD.--June 1921 to current year.

REVISED RECORDS.--WSP 786: 1933-34. WSP 1280: 1922. WDR MO-81-1: 1981. WDR MO-92-1: 1992(M).

GAGE.--Water-stage recorder. Datum of gage published in error from 1982 to 1992. The correct datum of gage is 707.56 ft above sea level. This figure supercedes figures published in reports from 1982 to 1992. Prior to Jan. 31, 1922, nonrecording gage at site 100 ft upstream at datum 5.00 ft lower; Jan. 31, 1922, to Nov. 15, 1936, nonrecording gage at site about 1,100 ft upstream at datum 4.83 ft lower; Nov. 16, 1936, to Nov. 14, 1937, nonrecording gage; Nov. 15, 1937, to Sept. 21, 1961, water-stage recorder on center pier of highway bridge at datum 5.00 ft lower; Sept. 22-27, 1961, nonrecording gage at railroad bridge 100 ft upstream at datum 5.00 ft lower; Sept. 28, 1961, to Mar. 4, 1964, water-stage recorder on downstream side of left bank pier of highway bridge and wire-weight gage for stages below 7.2 ft at datum 5.00 ft lower; Mar. 5, 1964, to Mar. 5, 1982, at present site at datum 5.00 ft. higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 45 ft, July 8, 1909, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	29	41	e21	1010	2900	1440	415	7740	692	690	53
2	46	54	40	e24	563	2240	1570	424	4750	609	495	52
3	37	390	36	e28	501	1850	1460	513	3960	558	380	46
4	34	239	41	e31	485	2410	1300	2960	10600	7440	310	42
5	37	150	37	e36	484	3770	1220	2650	9440	5560	261	37
6	36	146	33	e36	1140	3080	3840	2940	19500	2300	225	36
7	33	788	43	e36	1510	2320	5860	3480	11400	1390	199	54
8	34	1100	40	e36	1470	2020	2800	1790	4760	955	183	139
9	39	498	40	e33	5760	1570	2360	1290	2860	704	163	67
10	35	294	44	e35	4800	1540	8140	794	2030	562	144	89
11	32	210	25	e36	2460	1740	5260	6740	1540	503	129	117
12	31	167	e24	e37	1670	3690	8800	5600	1230	470	118	106
13	30	133	e20	e38	1320	6760	5050	2190	1010	1270	108	77
14	28	111	e21	e100	1870	5670	2640	3100	881	804	101	55
15	26	95	e21	e1200	2340	8270	1980	3560	16100	503	97	42
16	25	82	e21	e800	1640	9940	3100	1640	10200	360	108	40
17	24	66	e21	e500	1060	7210	2770	2240	3840	292	107	74
18	23	59	e20	e400	926	5410	1650	5200	2130	258	105	613
19	23	61	e20	e300	907	5740	1300	1710	2050	241	89	1150
20	22	41	e20	e250	1720	6560	1200	1190	12500	225	82	719
21	21	41	e20	e175	2100	6020	1710	1370	23800	239	77	352
22	22	48	e20	e125	1280	6600	2530	946	18300	260	71	207
23	26	45	e20	e120	984	7000	1570	552	6110	225	67	176
24	27	40	e20	e100	8230	4780	1200	412	3420	211	75	157
25	29	46	e20	e90	25800	3250	942	363	2330	4200	162	154
26	29	44	e20	e75	13100	2350	796	360	1730	8490	158	130
27	35	45	e20	e65	6710	1860	666	335	1360	2600	142	122
28	33	44	e19	e55	4340	1580	569	304	1100	2870	100	104
29	29	44	e19	e140	---	1470	500	267	926	5030	75	86
30	29	42	e20	2220	---	1420	450	412	791	1940	70	74
31	29	---	e21	2070	---	1370	---	4410	---	1050	57	---
MEAN	31.0	172	26.7	297	3435	3948	2489	1941	6280	1704	166	172
MAX	58	1100	44	2220	25800	9940	8800	6740	23800	8490	690	1150
MIN	21	29	19	21	484	1370	450	267	791	211	57	36
IN.	.02	.09	.01	.15	1.59	2.02	1.23	.99	3.11	.87	.09	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2001, BY WATER YEAR (WY)

MEAN	829	866	531	488	1013	1755	2010	2016	2379	1630	527	1057
MAX	8965	8613	5463	4212	6196	8760	7906	14820	22670	33930	4136	11610
(WY)	1974	1929	1983	1932	1962	1979	1927	1995	1947	1993	1987	1926
MIN	3.09	8.18	6.15	3.94	5.61	18.7	12.0	15.4	51.9	13.3	7.05	10.2
(WY)	1957	1939	1939	1940	1939	1938	1956	1956	1988	1936	1936	1955

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1921 - 2001	
ANNUAL MEAN	193		1702		1257	
HIGHEST ANNUAL MEAN					5740	1993
LOWEST ANNUAL MEAN					129	1938
HIGHEST DAILY MEAN	9380	Jun 25	25800	Feb 25	85500	Jul 24 1993
LOWEST DAILY MEAN	17	Sep 18,19	19	Dec 28,29	2.0	Aug 30 1980
ANNUAL SEVEN-DAY MINIMUM	18	Sep 14	20	Dec 23	2.6	Oct 23 1956
MAXIMUM PEAK FLOW	---		29800	Jun 21	89800	Jul 7 1993
MAXIMUM PEAK STAGE	---		28.93	Jun 21	41.50	Jul 7 1993
INSTANTANEOUS LOW FLOW	---		20[a]	Dec 11	2.0	Aug 30 1980
ANNUAL RUNOFF (INCHES)	1.17		10.27		7.59	
10 PERCENT EXCEEDS	178		5220		2570	
50 PERCENT EXCEEDS	48		380		221	
90 PERCENT EXCEEDS	23		29		28	

e Estimated
[a] Minimum recorded, may have been less during period of estimated record.

06898100 THOMPSON RIVER NEAR MOUNT MORIAH, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 40°20'11", long 93°46'02", NW $^1/_4$ NE $^1/_4$ NE $^1/_4$ sec.24, T.64 N., R.26 W., Harrison County, Hydrologic Unit 10280102. Station located on Highway 136 approximately 15 mi east of junction I-35 and Highway 136, 1.5 mi northeast of Mt. Moriah.

DRAINAGE AREA.--891 mi^2, including Panther Creek.

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
28...	1230	BLANK	--	--	--	--	--	--	0	.11	.010	<.09
28...	1330	ENVIRONMENTAL	15	13.2	106	8.3	478	4.5	210	64.7	12.9	3.22
JAN												
03...	1410	ENVIRONMENTAL	7.5	9.0	63	7.4	527	.5	--	--	--	--
MAR												
15...	1400	ENVIRONMENTAL	4860	11.2	85	7.7	204	2.0	--	--	--	--
MAY												
02...	1330	ENVIRONMENTAL	276	10.2	119	8.6	408	21.0	190	56.7	12.2	4.18
JUL												
13...	0900	ENVIRONMENTAL	126	8.8	104	8.3	444	22.5	--	--	--	--
13...	0901	REPLICATE	--	--	--	--	--	--	--	--	--	--
SEP												
20...	1020	ENVIRONMENTAL	53	10.2	112	8.3	402	18.5	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
28...	.1	--	--	--	--	.1	<.2	<.1	<10	<10	<.041	<.08	E.027
28...	16.8	195	195	238	0	11.2	.2	48.7	<10	293	.196	.57	.202
JAN													
03...	--	223	222	271	0	--	--	--	--	--	.364	.57	.173
MAR													
15...	--	73	72	88	0	--	--	--	--	--	.488	3.9	1.67
MAY													
02...	10	166	166	193	4	9.2	.2	32.4	156	236	<.041	1.5	.240
JUL													
13...	--	186	185	225	0	--	--	--	--	--	<.040	.73	<.050
13...	--	--	--	--	--	--	--	--	--	--	<.040	.68	<.050
SEP													
20...	--	163	161	197	0	--	--	--	--	--	<.040	.64	E.023

06898100 THOMPSON RIVER NEAR MOUNT MORIAH, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
28...	<.006	<.060	<.018	<.060	<10	--	--	--	4	4	<.2	<8.00	<.11
28...	E.005	<.060	<.018	E.030	12	K21	53	60	4	84	.4	<8.00	<.11
JAN													
03...	.006	<.060	<.018	<.060	--	K9	K1	K19	--	--	--	--	--
MAR													
15...	.022	E.047	.033	1.92	--	K40	980	3400	--	--	--	--	--
MAY													
02...	.011	E.043	.027	.262	21	2600	2200	640	8	1100	1.4	<8.00	E.08
JUL													
13...	E.004	<.060	<.020	.157	--	K13	K200	130	--	--	--	--	--
13...	E.004	<.060	<.020	.149	--	--	--	--	--	--	--	--	--
SEP													
20...	<.006	<.060	<.020	.108	--	380	370	470	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV								
28...	<4.7	<10	<.08	<1	<3.2	<.14	1	2
28...	<4.7	<10	.10	<1	--	<.14	2	2
JAN								
03...	--	--	--	--	--	--	--	--
MAR								
15...	--	--	--	--	--	--	--	--
MAY								
02...	<4.7	<10	E.06	2	14.9	<.01	3	14
JUL								
13...	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--
SEP								
20...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

06898800 WELDON RIVER AT PRINCETON, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 40°24'03", long 93°36'10", in SW $^1/_4$ NW $^1/_4$ SE $^1/_4$ sec.28, T.65 N., R.24 W., Mercer County, Hydrologic Unit 10280102. Located approximately 1 mi west of Princeton on US Highway 136.

DRAINAGE AREA.--452 mi^2.

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
30...	1000	ENVIRONMENTAL	5.2	13.9	102	8.1	464	1.5	200	60.6	12.5	3.60
JAN												
05...	0930	ENVIRONMENTAL	8.1	8.9	63	7.6	552	.5	--	--	--	--
MAR												
15...	1115	ENVIRONMENTAL	2840	11.6	92	7.8	196	3.5	--	--	--	--
MAY												
02...	1030	BLANK	--	--	--	--	--	--	--	.02	<.008	.15
02...	1045	ENVIRONMENTAL	167	8.7	99	8.2	369	20.0	170	49.8	9.97	5.06
JUL												
11...	1445	ENVIRONMENTAL	63	9.4	132	8.6	417	31.5	--	--	--	--
SEP												
18...	1250	ENVIRONMENTAL	18	9.6	105	8.2	411	18.0	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
30...	14.6	198	198	242	0	11.2	.2	38.2	<10	278	.110	.47	.130
JAN													
05...	--	240	240	293	0	--	--	--	--	--	.199	.43	.115
MAR													
15...	--	64	64	78	0	--	--	--	--	--	.175	2.9	1.07
MAY													
02...	<.1	--	--	--	--	.1	<.2	<.1	13	<10	<.041	<.08	<.047
02...	7.5	150	152	185	0	7.7	.2	28.0	119	224	.047	1.3	1.20
JUL													
11...	--	175	173	195	8	--	--	--	--	--	<.040	.76	<.050
SEP													
18...	--	178	177	216	0	--	--	--	--	--	<.040	.32	E.023

06898800 WELDON RIVER AT PRINCETON, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
30...	E.003	<.060	<.018	<.060	11	38	K18	46	4	116	.3	<8.00	<.10
JAN													
05...	E.004	<.060	<.018	<.060	--	K8	K7	34	--	--	--	--	--
MAR													
15...	.015	.113	.060	1.28	--	LA	1400	2200	--	--	--	--	--
MAY													
02...	<.006	<.060	<.018	<.060	<10	--	--	--	7	25	<.2	<8.00	<.11
02...	.045	.095	.063	.238	24	K8100	K9300	1700	6	--	1.3	<8.00	E.07
JUL													
11...	E.004	E.032	.033	.130	--	K15	55	28	--	--	--	--	--
SEP													
18...	<.006	<.060	<.020	<.060	--	620	700	480	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV								
30...	<5.0	10	<.08	<1	--	<.10	3	3
JAN								
05...	--	--	--	--	--	--	--	--
MAR								
15...	--	--	--	--	--	--	--	--
MAY								
02...	<4.7	<10	<.08	<1	<3.2	<.01	2	2
02...	<4.7	M	E.06	2	14.4	.01	1	8
JUL								
11...	--	--	--	--	--	--	--	--
SEP								
18...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.
LA-Laboratory Accident.

06899500 THOMPSON RIVER AT TRENTON, MO

LOCATION.--Lat 40°04'10", long 93°38'16" in SW $^1/_4$ NE $^1/_4$ sec.19, T.61 N., R.24 W., Grundy County, Hydrologic Unit 10280102, at downstream side of bridge pier in Trenton, 2.6 mi downstream from Weldon River, and at mile 25.2.

DRAINAGE AREA.--1,670 mi^2, approximately.

PERIOD OF RECORD.--June 1921 to September 1923, published as "near Hickory", August 1928 to current year. Monthly discharge only for some periods, published in WSP 1310. Gage-height records collected in vicinity 1910-14 and since 1925 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 1116: 1945(M). WDR MO-83-1: 1981.

GAGE.--Water-stage recorder and nonrecording gage. Datum of gage is 721.87 ft above sea level. June 25, 1921, to Aug. 26, 1923, nonrecording gage at two sites 12 mi downstream (by old channel route) at different datums; Aug. 1, 1928, to Sept. 15, 1930, nonrecording gage at site 0.8 mi upstream from current site at current datum; Sept. 16, 1930, to May 31 1945, nonrecording gage at site 0.7 mi downstream from current at datum 3.46 ft lower; June 1, 1945, to Dec. 7, 1959, nonrecording gage at same site and datum. Dec. 8, 1959 to Oct. 27, 1998 at site 0.8 mi upstream from current site, at same datum.

REMARKS.--Records fair except for estimated daily discharges and those above 6,000 ft^3/s, which are poor. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 30.7 ft, July 6, 1909, present site and datum, from information by local residents: discharge, 50,000 ft^3/s, determined by the U.S. Army Corps of Engineers, occurred before new channel was dredged.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	18	26	e19	808	1910	1040	382	11000	515	253	69
2	27	21	28	e19	551	1260	1060	480	9390	458	209	62
3	23	31	24	e20	444	1050	932	506	4240	453	182	58
4	23	27	26	e22	295	2270	799	1390	10100	7170	170	52
5	30	38	21	e25	238	2410	691	2980	9200	3060	181	47
6	35	50	18	e25	595	1660	4950	3400	20100	1170	188	48
7	30	126	25	e25	728	1360	2040	5260	7600	728	174	62
8	26	65	30	e25	1180	1200	1190	2400	3630	545	157	146
9	23	52	28	e24	5350	994	3980	1700	2270	429	130	191
10	20	59	29	e25	2270	930	6180	1440	1630	353	112	367
11	18	50	18	e26	1360	1440	3750	6650	1270	304	101	232
12	18	45	18	e26	1020	2980	8310	3060	994	281	94	182
13	19	37	17	e28	823	5350	4870	3060	796	250	88	157
14	21	33	17	e100	1460	4760	2490	7290	858	225	81	111
15	20	32	e18	e500	1040	13400	2630	6940	8420	207	81	86
16	18	30	e18	e350	725	12500	2940	4150	4900	192	89	80
17	16	25	e18	e250	402	6490	1930	5530	1880	180	84	88
18	15	27	e18	e180	491	3930	1200	4350	3980	170	80	234
19	15	30	e17	e120	566	3830	966	2670	1500	230	74	463
20	16	18	e17	e90	1140	5490	838	1410	3330	489	71	170
21	18	19	e17	e80	966	6120	872	2380	17600	545	68	113
22	19	22	e17	e70	724	6810	847	1230	7540	838	66	92
23	22	26	e17	e60	517	5950	1260	901	3250	517	67	113
24	24	26	e17	e50	8940	4010	898	780	1970	318	71	143
25	23	31	e17	e45	12400	2780	693	711	1400	8510	126	145
26	20	30	e17	e40	5700	1820	586	716	1110	3090	97	122
27	19	28	e17	e35	3860	1300	518	687	922	892	77	103
28	20	25	e17	e60	2690	1080	464	622	803	1360	65	84
29	20	25	e16	216	---	981	420	556	670	899	57	71
30	19	25	e17	1690	---	940	382	539	583	470	58	63
31	17	---	e18	1100	---	930	---	10800	---	322	67	---
MEAN	21.5	35.7	19.9	172	2046	3482	1991	2741	4765	1135	110	132
MAX	35	126	30	1690	12400	13400	8310	10800	20100	8510	253	463
MIN	15	18	16	19	238	930	382	382	583	170	57	47
IN.	.01	.02	.01	.12	1.28	2.40	1.33	1.89	3.18	.78	.08	.09

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	587	658	476	461	935	1613	1743	1778	1839	1091	515	687
MAX	4678	6280	4209	3682	4378	5765	5580	8757	16460	18860	3990	8443
(WY)	1974	1962	1983	1946	1962	1979	1973	1995	1947	1993	1959	1992
MIN	11.1	9.53	6.48	4.74	13.0	17.6	10.7	10.2	13.9	6.00	9.32	12.9
(WY)	1957	1956	1956	1956	1956	1938	1956	1956	1956	1934	1936	1955

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	145		1378		1031	
HIGHEST ANNUAL MEAN					3576	1993
LOWEST ANNUAL MEAN					117	1934
HIGHEST DAILY MEAN	10900	Jun 24	20100	Jun 6	73800	Jun 6 1947
LOWEST DAILY MEAN	15	Oct 18,19	15	Oct 18,19	1.0	Jun 17 1956
ANNUAL SEVEN-DAY MINIMUM	17	Oct 16	17	Oct 16	1.7	Aug 4 1934
MAXIMUM PEAK FLOW	---		28000	Jun 6	95000	Jun 6 1947
MAXIMUM PEAK STAGE	---		14.48	Jun 6	25.70	Jun 6 1947
INSTANTANEOUS LOW FLOW	---		15	Oct 18-20	1.0	Jun 17 1956
ANNUAL RUNOFF (INCHES)	1.18		11.21		8.38	
10 PERCENT EXCEEDS	165		4280		2380	
50 PERCENT EXCEEDS	40		238		219	
90 PERCENT EXCEEDS	19		19		29	

e Estimated

06899580 NO CREEK NEAR DUNLAP, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 40°06'19", long 93°29'29", in SE $^1/_4$ SE $^1/_4$ SW $^1/_4$ sec.4, T.61 N., R.23 W., Grundy County, Hydrologic Unit 10280102. Located on upstream side of bridge on County Road N approximately 0.4 mi east of County Road NN and 0.6 mi west of Dunlap.

DRAINAGE AREA.--34.0 mi^2.

PERIOD OF RECORD.--November 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT												
24...	1135	ENVIRONMENTAL	.37	7.1	77	7.9	348	18.0	--	--	--	--
NOV												
15...	1220	ENVIRONMENTAL	.68	11.9	96	8.0	317	4.5	130	37.5	9.75	7.72
DEC												
19...	0915	ENVIRONMENTAL	.08	9.1	64	7.7	610	.5	--	--	--	--
19...	0916	REPLICATE	--	--	--	--	--	--	--	--	--	--
JAN												
24...	1245	ENVIRONMENTAL	1.6	11.3	79	7.8	417	.5	200	55.8	14.1	6.76
FEB												
15...	1035	ENVIRONMENTAL	40	12.7	90	7.7	162	.5	--	--	--	--
MAR												
27...	1315	ENVIRONMENTAL	10	11.8	97	8.1	274	6.0	--	--	--	--
APR												
24...	1425	ENVIRONMENTAL	19	10.8	109	8.0	251	15.0	--	--	--	--
MAY												
22...	1215	ENVIRONMENTAL	9.9	8.9	92	8.1	302	15.5	130	37.9	9.07	3.64
JUN												
19...	0905	ENVIRONMENTAL	2.7	6.3	75	7.5	239	22.2	--	--	--	--
25...	1700	ENVIRONMENTAL	5.2	7.9	101	8.0	268	26.5	--	--	--	--
JUL												
26...	1330	BLANK	--	--	--	--	--	--	--	E.01	<.008	<.09
26...	1445	ENVIRONMENTAL	67	6.7	82	7.5	153	24.0	60	17.8	3.89	4.63
AUG												
09...	1350	ENVIRONMENTAL	.47	8.4	117	8.3	382	31.0	--	--	--	--
SEP												
13...	1030	ENVIRONMENTAL	.10	7.4	80	8.2	447	18.0	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT													
24...	--	140	140	171	0	--	--	--	--	--	E.027	1.6	.087
NOV													
15...	10.2	120	120	147	0	9.0	.2	32.8	21	219	.065	.95	1.10
DEC													
19...	--	225	225	274	0	--	--	--	--	--	.190	1.4	E.031
19...	--	--	--	--	--	--	--	--	--	--	--	--	<.047
JAN													
24...	17.6	134	136	166	0	10.1	E.1	55.5	18	276	.104	.98	1.87
FEB													
15...	--	44	42	51	0	--	--	--	--	--	.189	1.4	1.41
MAR													
27...	--	88	87	106	0	--	--	--	--	--	.068	.73	.852
APR													
24...	--	92	92	112	0	--	--	--	--	--	<.041	1.1	.217
MAY													
22...	10	120	119	145	0	5.6	.2	26.0	41	170	.074	.90	.377
JUN													
19...	--	93	94	115	0	--	--	--	--	--	E.027	1.3	.326
25...	--	107	107	130	0	--	--	--	--	--	.055	.87	.241
JUL													
26...	<.1	--	--	--	--	M	<.2	E.1	<10	16	<.040	<.08	E.030
26...	3.5	60	59	72	0	2.8	E.1	10.7	290	126	E.035	1.4	.271
AUG													
09...	--	159	160	196	1	--	--	--	--	--	E.027	.71	E.039
SEP													
13...	--	197	193	236	0	--	--	--	--	--	.128	2.3	E.042

06899580 NO CREEK NEAR DUNLAP, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
24...	.055	.301	.259	.668	--	K8500	5900	4800	--	--	--	--	--
NOV													
15...	.043	<.060	.026	.136	31	720	1100	310	8	448	1.1	<8.00	<.11
DEC													
19...	.007	<.060	<.018	E.057	--	190	86	150	--	--	--	--	--
19...	E.005	<.060	<.018	E.057	--	--	--	--	--	--	--	--	--
JAN													
24...	.033	<.060	.022	.100	22	K170	110	160	5	254	.8	<8.00	<.11
FEB													
15...	.018	.268	.208	.344	--	K200	K710	K3000	--	--	--	--	--
MAR													
27...	.007	<.060	.035	.122	--	K6	K26	360	--	--	--	--	--
APR													
24...	.012	.061	.039	.183	--	1200	1100	1200	--	--	--	--	--
MAY													
22...	.035	E.055	.032	.150	36	K8	K920	1600	4	654	1.5	<8.00	<.10
JUN													
19...	.064	.127	.036	.227	--	6600	3000	K1200	--	--	--	--	--
25...	.033	.061	.033	.177	--	240	430	620	--	--	--	--	--
JUL													
26...	<.006	<.060	<.020	<.060	--	--	--	--	<1	<2	<.2	<8.00	<.10
26...	.011	.084	.075	.347	42	4200	2100	4800	8	3190	1.8	<8.00	E.06
AUG													
09...	<.006	E.051	.042	.121	--	390	800	K130	--	--	--	--	--
SEP													
13...	.010	<.060	<.020	.153	--	K170	K700	460	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
OCT								
24...	--	--	--	--	--	--	--	--
NOV								
15...	<4.7	40	E.04	1	177	<.14	4	4
DEC								
19...	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--
JAN								
24...	E3.9	20	<.08	M	365	<.14	3	3
FEB								
15...	--	--	--	--	--	--	--	--
MAR								
27...	--	--	--	--	--	--	--	--
APR								
24...	--	--	--	--	--	--	--	--
MAY								
22...	<5.0	30	<.08	2	99.5	<.01	1	4
JUN								
19...	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--
JUL								
26...	<5.0	<10	<.08	<1	<3.0	<.01	<1	<1
26...	<5.0	90	E.06	6	74.0	.02	4	20
AUG								
09...	--	--	--	--	--	--	--	--
SEP								
13...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

06899950 MEDICINE CREEK AT HARRIS, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 40°18'32", long 93°20'15", NE $^1/_4$ NE $^1/_4$ NW $^1/_4$ sec.35, T.64 N., R.22 W., Sullivan County, Hydrologic Unit 10280103. Access is on the left bank on upstream side of the bridge on State Highway E, approximately 0.6 mi east of Harris.

DRAINAGE AREA.--192 mi^2.

PERIOD OF RECORD.--October 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT 26...	1150	ENVIRONMENTAL	6.1	9.3	105	8.0	448	19.5	--	--	--	--
NOV 14...	1345	ENVIRONMENTAL	5.8	12.0	96.8	8.0	445	5.0	180	52.0	12.2	5.81
DEC 18...	1325	ENVIRONMENTAL	3.1	15.1	108	7.5	586	.5	--	--	--	--
JAN 25...	1245	ENVIRONMENTAL	12	13.8	98.1	7.8	526	.5	222	64.5	14.7	7.64
FEB 13...	1250	ENVIRONMENTAL	131	--	--	7.6	283	1.0	--	--	--	--
MAR 29...	0945	ENVIRONMENTAL	100	11.5	92.1	8.0	355	4.5	--	--	--	--
APR 26...	0955	ENVIRONMENTAL	76	9.2	93.6	8.1	364	15.0	--	--	--	--
MAY 24...	0925	ENVIRONMENTAL	52	8.9	86.7	8.1	370	12.5	177	52.3	11.2	4.23
JUN 19...	1035	ENVIRONMENTAL	79	6.8	79.9	7.4	331	22.0	--	--	--	--
26...	1415	ENVIRONMENTAL	60	8.2	107	8.1	338	28.0	--	--	--	--
JUL 25...	1400	ENVIRONMENTAL	353	5.8	73	7.8	346	25.5	150	44.9	9.15	4.70
AUG 08...	1400	ENVIRONMENTAL	13	8.1	114	8.1	438	32.0	--	--	--	--
SEP 12...	1430	ENVIRONMENTAL	7.4	8.2	105	8.0	415	26.5	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT 26...	--	171	171	209	0	--	--	--	--	--	<.041	.41	<.047
NOV 14...	20.3	178	178	217	0	13.9	.2	45.0	<10	284	.134	.63	.295
DEC 18...	--	236	236	287	0	--	--	--	--	--	.045	.32	E.024
JAN 25...	18.4	175	175	214	0	15.6	E.1	62.0	<10	329	.631	1.5	1.77
FEB 13...	--	82	83	101	0	--	--	--	--	--	.438	1.4	1.41
MAR 29...	--	121	120	146	0	--	--	--	--	--	.179	.97	1.00
APR 26...	--	133	134	163	0	--	--	--	--	--	E.031	.76	.269
MAY 24...	10.6	148	146	178	0	7.6	.2	35.0	68	212	.042	.75	.510
JUN 19...	--	119	121	148	0	--	--	--	--	--	<.040	1.1	.390
26...	--	137	135	164	0	--	--	--	--	--	.045	.81	.289
JUL 25...	9.2	154	154	187	0	5.9	.2	27.1	1610	222	E.028	3.0	.116
AUG 08...	--	165	165	201	0	--	--	--	--	--	E.026	.53	E.023
SEP 12...	--	157	157	191	0	--	--	--	--	--	<.040	.44	.059

06899950 MEDICINE CREEK AT HARRIS, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
26...	<.006	<.060	.021	.068	--	K500	K69	K240	--	--	--	--	--
NOV													
14...	.006	<.060	<.018	.087	19	190	240	440	9	139	.5	<8.00	<.11
DEC													
18...	E.005	<.060	<.018	<.060	--	37	47	110	--	--	--	--	--
JAN													
25...	.022	<.060	E.013	.106	19	K20	35	140	7	116	.6	<8.00	E.07
FEB													
13...	.021	.078	.044	.305	--	1200	240	1400	--	--	--	--	--
MAR													
29...	.014	E.035	.018	.213	--	K5	K84	K88	--	--	--	--	--
APR													
26...	.013	E.049	.027	.213	--	K210	250	170	--	--	--	--	--
MAY													
24...	.019	E.056	.029	.181	22	K130	K900	K1400	16	861	.9	<8.00	<.10
JUN													
19...	.055	.093	<.020	.325	--	K1200	K1300	K1100	--	--	--	--	--
26...	.016	E.049	.035	.181	--	430	740	470	--	--	--	--	--
JUL													
25...	.011	E.048	.048	1.34	43	LA	K900	5100	6	11700	1.2	<8.00	.75
AUG													
08...	<.006	<.060	.018	.092	--	K160	240	K11	--	--	--	--	--
SEP													
12...	E.004	<.060	<.020	.067	--	K69	93	160	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
OCT								
26...	--	--	--	--	--	--	--	--
NOV								
14...	<4.7	10	<.08	<1	1560	<.14	3	2
DEC								
18...	--	--	--	--	--	--	--	--
JAN								
25...	E2.8	20	E.07	<1	1020	<.14	5	5
FEB								
13...	--	--	--	--	--	--	--	--
MAR								
29...	--	--	--	--	--	--	--	--
APR								
26...	--	--	--	--	--	--	--	--
MAY								
24...	<5.0	30	<.08	1	61.6	<.01	2	7
JUN								
19...	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--
JUL								
25...	<5.0	<10	<.08	23	8.0	.07	3	72
AUG								
08...	--	--	--	--	--	--	--	--
SEP								
12...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.
LA-Laboratory Accident.

06900050 MEDICINE CREEK AT LAREDO, MO

LOCATION.--Lat 40°01'36", long 93°26'09", in SW $^1/_4$ NW $^1/_4$ SE $^1/_4$ sec.12, T.60 N., R.23 W., Grundy County, Hydrologic Unit 10280103, on downstream side of Highway E bridge, approximately 0.5 mi east of Laredo.

DRAINAGE AREA.--355 mi^2.

PERIOD OF RECORD.--November 14, 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	11	e4.0	323	351	165	78	3620	e63	52	24
2	---	---	10	e3.8	150	224	168	87	1910	e62	43	26
3	---	---	8.2	e3.8	103	156	146	110	800	e65	42	17
4	---	---	9.8	e4.0	94	706	e128	1200	4300	215	96	14
5	---	---	8.1	e4.2	126	434	123	848	4640	161	92	12
6	---	---	7.2	e4.5	175	197	3140	755	7780	87	54	12
7	---	---	10	e4.8	257	131	e919	1860	1520	60	39	12
8	---	---	13	e5.0	1530	109	e386	649	508	49	33	17
9	---	---	9.5	e5.5	6890	102	232	272	284	42	30	19
10	---	---	11	e6.0	1490	74	1040	186	223	37	26	37
11	---	---	6.4	e6.0	459	83	1250	538	173	33	23	23
12	---	---	e4.5	e6.0	289	226	1730	860	137	35	21	16
13	---	---	e4.0	e12	296	412	479	380	e111	31	20	13
14	---	15	e3.5	e200	881	272	256	5030	e102	27	19	12
15	---	13	e3.3	e600	670	5820	935	1330	936	25	19	12
16	---	12	e3.3	e450	345	4830	915	376	e522	24	21	12
17	---	12	e3.5	e100	255	1440	334	e181	e215	23	18	15
18	---	11	e3.5	e80	155	1030	216	e552	e135	22	20	30
19	---	12	e3.8	e65	193	1340	177	322	139	152	17	89
20	---	9.2	e4.0	e45	484	2100	157	163	311	890	16	29
21	---	8.3	e4.0	e38	563	2070	367	365	6510	149	15	22
22	---	8.8	e4.2	e35	221	1560	221	349	2880	71	15	18
23	---	10	e4.2	e31	168	1050	537	152	526	54	15	34
24	---	9.8	e4.5	e26	4030	541	361	107	266	41	17	22
25	---	12	e4.2	e25	5120	326	201	97	e183	3290	38	16
26	---	11	e4.0	25	1210	229	145	302	e138	815	37	14
27	---	11	e4.5	23	445	186	121	289	e105	230	25	14
28	---	11	e4.2	27	270	169	100	168	e87	698	18	13
29	---	10	e4.5	487	---	171	87	118	e74	184	15	12
30	---	11	e4.8	1360	---	169	78	126	e65	99	19	12
31	---	---	e4.5	699	---	158	---	6720	---	69	32	---
MEAN	---	11.0	5.97	141	971	860	504	793	1307	252	30.5	20.6
MAX	---	15	13	1360	6890	5820	3140	6720	7780	3290	96	89
MIN	---	8.3	3.3	3.8	94	74	78	78	65	22	15	12

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	---	---	5.97	141	971	860	504	793	1307	252	30.5	20.6
MAX	---	---	5.97	141	971	860	504	793	1307	252	30.5	20.6
(WY)	---	---	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	---	---	5.97	141	971	860	504	793	1307	252	30.5	20.6
(WY)	---	---	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR PERIOD OF RECORD	
HIGHEST DAILY MEAN	7780	Jun 6
LOWEST DAILY MEAN	3.3	Dec 15,16
ANNUAL SEVEN-DAY MINIMUM	3.6	Dec 13
MAXIMUM PEAK FLOW	12300	Jun 6
MAXIMUM PEAK STAGE	16.78	Jun 6
INSTANTANEOUS LOW FLOW	3.0[a]	Dec 5
10 PERCENT EXCEEDS	1050	
50 PERCENT EXCEEDS	92	
90 PERCENT EXCEEDS	6.1	

e Estimated
[a] Minimum recorded, may have been less during period of estimated record.

06900100 LITTLE MEDICINE CREEK NEAR HARRIS, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 40°19'02", long 93°22'52", in SW $^1/_4$ SE $^1/_4$ NW $^1/_4$ sec.28, T.64 N., R.22 W., Mercer County, Hydrologic Unit 10280103. Access is on the left bank on upstream side of bridge on State Highway E, approximately 1.7 mi west of Harris.

DRAINAGE AREA.--66.5 mi^2.

PERIOD OF RECORD.--November 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DISSOLVED (mg/L) (00300)	OXYGEN, DISSOLVED (percent saturation) (00301)	pH WATER WHOLE FIELD (standard units) (00400)	SPECIFIC CONDUCTANCE (µS/cm) (00095)	TEMPERATURE WATER (Deg C) (00010)	HARDNESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DISSOLVED (mg/L as Ca) (00915)	MAGNESIUM, DISSOLVED (mg/L as Mg) (00925)	POTASSIUM, DISSOLVED (mg/L as K) (00935)
OCT												
26...	1000	ENVIRONMENTAL	1.8	7.9	85	8.1	496	17.5	--	--	--	--
NOV												
14...	0950	ENVIRONMENTAL	1.8	12.9	96	7.9	467	2.0	190	56.6	12.7	4.64
DEC												
19...	1245	ENVIRONMENTAL	.91	8.2	58	7.3	607	.5	--	--	--	--
JAN												
25...	0930	ENVIRONMENTAL	3.2	12.5	87	7.8	571	.5	240	71.4	15.6	7.10
FEB												
13...	1615	ENVIRONMENTAL	47	13.0	96	7.8	262	1.5	--	--	--	--
13...	1616	REPLICATE	--	--	--	--	--	--	--	--	--	--
MAR												
29...	1325	ENVIRONMENTAL	35	11.8	98	8.1	338	6.0	--	--	--	--
APR												
26...	1335	ENVIRONMENTAL	18	8.6	101	8.2	389	22.0	--	--	--	--
MAY												
24...	1300	ENVIRONMENTAL	16	9.2	91	8.2	369	13.0	180	52.3	11.0	4.30
JUN												
19...	1130	ENVIRONMENTAL	17	6.9	79	7.8	363	21.0	--	--	--	--
26...	0945	ENVIRONMENTAL	13	7.4	88	8.1	378	23.0	--	--	--	--
JUL												
25...	1005	ENVIRONMENTAL	11	7.5	91	7.8	305	23.5	120	37.0	7.69	5.22
AUG												
08...	0915	ENVIRONMENTAL	1.4	8.3	99	8.0	469	23.0	--	--	--	--
SEP												
12...	1115	ENVIRONMENTAL	1.2	7.5	95	8.0	454	26.0	--	--	--	--

DATE	SODIUM, DISSOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICARBONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CARBONATE IT FIELD (mg/L as CO_3) (00447)	CHLORIDE, DISSOLVED (mg/L as Cl) (00940)	FLUORIDE, DISSOLVED (mg/L as F) (00950)	SULFATE DISSOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	NITROGEN, AMMONIA DISSOLVED (mg/L as N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITROGEN, NO_2+NO_3 DISSOLVED (mg/L as N) (00631)
OCT													
26...	--	194	194	237	0	--	--	--	--	--	<.041	.36	<.047
NOV													
14...	14.4	174	174	212	0	11.2	.2	51.1	<10	294	.147	.47	.581
DEC													
19...	--	223	223	273	0	--	--	--	--	--	.091	.36	.079
JAN													
25...	18.3	202	203	246	0	18.2	E.1	60.5	<10	356	.318	.93	2.29
FEB													
13...	--	77	74	91	0	--	--	--	--	--	.254	1.7	1.49
13...	--	--	--	--	--	--	--	--	--	--	.243	1.4	1.48
MAR													
29...	--	115	114	140	0	--	--	--	--	--	.096	.70	1.16
APR													
26...	--	148	148	181	0	--	--	--	--	--	E.023	.61	.263
MAY													
24...	10.0	146	146	179	0	6.9	.2	33.5	31	216	.059	.65	.754
JUN													
19...	--	142	143	174	0	--	--	--	--	--	E.025	1.4	.556
26...	--	149	150	183	0	--	--	--	--	--	.046	.54	.379
JUL													
25...	8.5	114	111	137	0	7.1	.2	26.2	444	194	.229	1.9	2.13
AUG													
08...	--	182	184	225	0	--	--	--	--	--	.076	.44	.149
SEP													
12...	--	184	184	226	0	--	--	--	--	--	.111	.50	.285

06900100 LITTLE MEDICINE CREEK NEAR HARRIS, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
26...	<.006	E.049	.052	.083	--	K170	K75	K160	--	--	--	--	--
NOV													
14...	.011	<.060	E.010	E.058	14	560	330	540	11	84	.5	<8.00	<.11
DEC													
19...	.007	<.060	<.018	E.035	--	42	35	70	--	--	--	--	--
JAN													
25...	.031	<.060	.019	E.039	19	K33	K18	98	5	77	.6	<8.00	<.11
FEB													
13...	.016	.109	.086	.420	--	K750	480	3500	--	--	--	--	--
13...	.016	.109	.075	.390	--	--	--	--	--	--	--	--	--
MAR													
29...	.012	E.033	.025	.143	--	K150	100	K70	--	--	--	--	--
APR													
26...	.012	E.048	.034	.149	--	K170	170	87	--	--	--	--	--
MAY													
24...	.019	E.053	.034	.115	19	LA	K640	750	4	464	.9	<8.00	<.10
JUN													
19...	.065	.080	<.020	.259	--	4300	3200	5200	--	--	--	--	--
26...	.023	E.053	.036	.091	--	360	880	620	--	--	--	--	--
JUL													
25...	.233	E.059	.052	.480	40	K1200	K2000	K8400	6	5400	1.0	<8.00	.22
AUG													
08...	.013	<.060	.023	E.054	--	540	400	K11	--	--	--	--	--
SEP													
12...	.018	<.060	E.014	.074	--	K330	K210	450	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
OCT								
26...	--	--	--	--	--	--	--	--
NOV								
14...	<4.7	10	<.08	<1	1250	<.14	3	2
DEC								
19...	--	--	--	--	--	--	--	--
JAN								
25...	<4.7	20	E.04	<1	1110	<.14	4	3
FEB								
13...	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--
MAR								
29...	--	--	--	--	--	--	--	--
APR								
26...	--	--	--	--	--	--	--	--
MAY								
24...	<5.0	M	<.08	1	50.1	<.01	<1	3
JUN								
19...	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--
JUL								
25...	<5.0	M	<.08	8	8.0	.03	2	32
AUG								
08...	--	--	--	--	--	--	--	--
SEP								
12...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.
LA-Laboratory Accident.

06900900 LOCUST CREEK NEAR UNIONVILLE, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 40°28'23", long 93°07'37", in SW $^1/_4$ SW $^1/_4$ SW $^1/_4$ sec.35, T.66 N., R.20 W., Putnam County, Hydrologic Unit 10280103. Access is on left bank on upstream side of bridge on Highway HH approximately 3.2 mi west of State Highway 5, 9.4 mi south of Unionville.

DRAINAGE AREA.--77.5 mi^2.

PERIOD OF RECORD.--October 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT												
25...	1235	ENVIRONMENTAL	.75	3.8	43	7.8	457	20.0	--	--	--	--
NOV												
13...	1320	ENVIRONMENTAL	1.9	11.9	92	8.0	466	3.0	190	55.0	13.1	6.63
DEC												
20...	1230	ENVIRONMENTAL	1.0	6.5	46	7.4	646	.5	--	--	--	--
JAN												
23...	1320	ENVIRONMENTAL	4.0	10.9	80	7.7	556	1.5	250	72.1	16.2	8.72
FEB												
14...	1045	ENVIRONMENTAL	324	12.4	89	7.9	175	.5	--	--	--	--
MAR												
28...	1450	ENVIRONMENTAL	35	11.7	94	8.0	389	4.5	--	--	--	--
APR												
25...	1340	ENVIRONMENTAL	28	9.2	100	8.1	393	18.0	--	--	--	--
MAY												
23...	1440	ENVIRONMENTAL	19	8.7	88	8.2	422	14.0	140	41.4	8.85	2.82
JUN												
18...	1525	ENVIRONMENTAL	27	6.9	89	7.7	363	27.1	--	--	--	--
27...	0930	ENVIRONMENTAL	16	7.7	90	8.1	370	22.0	--	--	--	--
27...	0931	REPLICATE	--	--	--	--	--	--	--	--	--	--
JUL												
24...	1430	ENVIRONMENTAL	2.9	9.2	125	8.3	390	29.5	170	51.1	10.5	6.83
AUG												
07...	1350	ENVIRONMENTAL	3.9	7.4	100	8.2	359	29.5	--	--	--	--
SEP												
11...	1400	ENVIRONMENTAL	1.8	9.0	103	8.2	366	21.0	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT													
25...	--	184	184	224	0	--	--	--	--	--	<.041	.61	<.047
NOV													
13...	14.4	180	180	219	0	10.8	.2	39.5	16	283	.095	.71	.437
DEC													
20...	--	255	255	311	0	--	--	--	--	--	.069	.53	E.039
JAN													
23...	18.2	179	179	218	0	16.0	.2	74.8	<10	362	.331	1.2	2.83
FEB													
14...	--	54	52	64	0	--	--	--	--	--	.377	2.0	.838
MAR													
28...	--	128	125	153	0	--	--	--	--	--	.163	.82	.927
APR													
25...	--	147	147	179	0	--	--	--	--	--	<.041	.68	.244
MAY													
23...	8.7	174	174	212	0	8.3	.2	37.2	23	248	.049	.66	.718
JUN													
18...	--	135	135	164	0	--	--	--	--	--	<.040	1.0	.611
27...	--	149	150	183	0	--	--	--	--	--	.048	.81	.401
27...	--	--	--	--	--	--	--	--	--	--	.053	.90	.410
JUL													
24...	10.9	164	163	198	1	7.6	.2	30.2	26	256	<.040	.83	.482
AUG													
07...	--	150	150	182	0	--	--	--	--	--	E.039	.76	.495
SEP													
11...	--	157	157	191	0	--	--	--	--	--	<.040	.56	.188

06900900 LOCUST CREEK NEAR UNIONVILLE, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
25...	<.006	.101	.097	.184	--	240	150	530	--	--	--	--	--
NOV													
13...	.010	<.060	<.018	.094	22	250	470	310	8	228	.7	<8.00	<.11
DEC													
20...	.006	<.060	<.018	E.033	--	LA	K32	100	--	--	--	--	--
JAN													
23...	.043	<.060	E.012	.068	20	K97	K150	K160	5	78	.7	<8.00	<.11
FEB													
14...	.018	.278	.223	.538	--	2500	2000	12000	--	--	--	--	--
MAR													
28...	.014	<.060	E.014	.139	--	K20	67	K29	--	--	--	--	--
APR													
25...	.016	E.030	E.012	.142	--	250	220	100	--	--	--	--	--
MAY													
23...	.018	E.054	.025	.113	27	K350	490	1000	4	360	1.1	<8.00	<.10
JUN													
18...	.020	.066	.049	.191	--	540	740	860	--	--	--	--	--
27...	.022	<.060	E.016	.122	--	190	400	760	--	--	--	--	--
27...	.022	<.060	E.017	.158	--	--	--	--	--	--	--	--	--
JUL													
24...	.022	E.043	.028	.100	29	850	550	220	6	280	1.4	<8.00	<.10
AUG													
07...	.013	E.054	.049	.122	--	620	620	370	--	--	--	--	--
SEP													
11...	.011	E.039	<.020	.094	--	K67	170	730	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
OCT								
25...	--	--	--	--	--	--	--	--
NOV								
13...	<4.7	40	<.08	<1	765	<.14	1	2
DEC								
20...	--	--	--	--	--	--	--	--
JAN								
23...	E2.6	20	<.08	<1	1060	<.14	3	3
FEB								
14...	--	--	--	--	--	--	--	--
MAR								
28...	--	--	--	--	--	--	--	--
APR								
25...	--	--	--	--	--	--	--	--
MAY								
23...	<5.0	<10	<.08	M	78.8	<.01	1	2
JUN								
18...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
JUL								
24...	<5.0	<10	<.08	M	143	<.01	2	4
AUG								
07...	--	--	--	--	--	--	--	--
SEP								
11...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.
LA-Laboratory Accident.

06901500 LOCUST CREEK NEAR LINNEUS, MO

LOCATION.--Lat 39°53'45", long 93°14'10", in NW $^1/_4$ NE $^1/_4$ sec.34, T.59 N., R.21 W., Linn County, Hydrologic Unit 10280103, on right bank on upstream side of county road, 1 mi upstream from Boyer bridge, 1.5 mi upstream from Strawberry and Couch Creeks, 3 mi northwest of Linneus, and 5 mi downstream from West Locust Creek.

DRAINAGE AREA.--550 sq mi^2, approximately.

REVISED RECORDS.--WSP 896: 1939.

PERIOD OF RECORD.--October 1928 to September 1972, July 2000 to current year. Prior to April 1929 monthly discharge only published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 692.61 ft above sea level. Prior to July 26, 1956, nonrecording gage at same site and datum.

REMARKS.--Records good. U.S.G.S satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1909 reached a discharge of about 18,000 ft^3/s, determination by the Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	6.5	4.8
2	---	---	---	---	---	---	---	---	---	---	5.7	4.4
3	---	---	---	---	---	---	---	---	---	---	5.5	4.1
4	---	---	---	---	---	---	---	---	---	---	6.5	3.9
5	---	---	---	---	---	---	---	---	---	---	5.1	3.3
6	---	---	---	---	---	---	---	---	---	---	5.2	3.0
7	---	---	---	---	---	---	---	---	---	---	8.2	3.0
8	---	---	---	---	---	---	---	---	---	---	20	2.8
9	---	---	---	---	---	---	---	---	---	---	19	2.6
10	---	---	---	---	---	---	---	---	---	---	45	2.3
11	---	---	---	---	---	---	---	---	---	---	29	2.3
12	---	---	---	---	---	---	---	---	---	---	16	2.7
13	---	---	---	---	---	---	---	---	---	---	14	2.3
14	---	---	---	---	---	---	---	---	---	17	19	2.6
15	---	---	---	---	---	---	---	---	---	16	22	2.6
16	---	---	---	---	---	---	---	---	---	15	15	2.2
17	---	---	---	---	---	---	---	---	---	15	9.0	1.9
18	---	---	---	---	---	---	---	---	---	13	6.8	1.7
19	---	---	---	---	---	---	---	---	---	12	9.9	1.6
20	---	---	---	---	---	---	---	---	---	16	14	3.5
21	---	---	---	---	---	---	---	---	---	12	9.4	4.1
22	---	---	---	---	---	---	---	---	---	13	7.6	2.5
23	---	---	---	---	---	---	---	---	---	13	7.1	5.4
24	---	---	---	---	---	---	---	---	---	9.8	106	11
25	---	---	---	---	---	---	---	---	---	8.0	45	78
26	---	---	---	---	---	---	---	---	---	7.1	18	82
27	---	---	---	---	---	---	---	---	---	6.5	12	70
28	---	---	---	---	---	---	---	---	---	14	8.5	50
29	---	---	---	---	---	---	---	---	---	12	6.6	27
30	---	---	---	---	---	---	---	---	---	9.3	5.8	15
31	---	---	---	---	---	---	---	---	---	7.9	5.0	---
MEAN	---	---	---	---	---	---	---	---	---	12.0	16.5	13.4
MAX	---	---	---	---	---	---	---	---	---	17	106	82
MIN	---	---	---	---	---	---	---	---	---	6.5	5.0	1.6
IN.	---	---	---	---	---	---	---	---	---	.01	.03	.03

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	169	207	146	190	304	476	589	458	692	284	135	166
MAX	1174	2272	803	1027	1294	1898	2103	2647	5820	2903	1812	2079
(WY)	1930	1932	1943	1946	1962	1961	1944	1935	1947	1958	1932	1970
MIN	.92	2.38	2.70	1.29	3.61	6.47	5.92	23.2	4.72	.40	.67	1.97
(WY)	1957	1957	1938	1940	1957	1957	1956	1938	1934	1934	1936	1955

SUMMARY STATISTICS	FOR JUL-SEP 2000		FOR PERIOD OF RECORD	
ANNUAL MEAN			313	
HIGHEST ANNUAL MEAN			796	1947
LOWEST ANNUAL MEAN			21.4	1934
HIGHEST DAILY MEAN	106	Aug 24	27300	Jun 6 1947
LOWEST DAILY MEAN	1.6	Sep 19	.00	Jul 17-Aug 11 1934
ANNUAL SEVEN-DAY MINIMUM	2.1	Sep 13	.00	Jul 17 1934
MAXIMUM PEAK FLOW	191	Aug 24	38000	Jun 6 1947
MAXIMUM PEAK STAGE	5.23	Aug 24	26.93	Jun 6 1947
INSTANTANEOUS LOW FLOW	1.3	Sep 19	.00	Jul 17-Aug 11 1934
ANNUAL RUNOFF (INCHES)	---		7.73	
10 PERCENT EXCEEDS	29		595	
50 PERCENT EXCEEDS	8.2		44	
90 PERCENT EXCEEDS	2.5		4.0	

06901500 LOCUST CREEK NEAR LINNEUS, MO--Continued

LOCATION.--Lat 39°53'45", long 93°14'10", in NW $^1/_4$ NE $^1/_4$ sec.34, T.59 N., R.21 W., Linn County, Hydrologic Unit 10280103, on right bank on upstream side of county road, 1 mi upstream from Boyer bridge, 1.5 mi upstream from Strawberry and Couch Creeks, 3 mi northwest of Linneus, and 5 mi downstream from West Locust Creek.

DRAINAGE AREA.--550 sq mi^2, approximately.

REVISED RECORDS.--WSP 896: 1939.

PERIOD OF RECORD.--October 1928 to September 1972, July 2000 to current year. Prior to April 1929 monthly discharge only published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 692.61 ft above sea level. Prior to July 26, 1956, nonrecording gage at same site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S.G.S satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1909 reached a discharge of about 18,000 ft^3/s, determination by the Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	7.8	11	e7.0	677	322	193	106	5170	92	59	51
2	7.4	8.3	10	e6.5	585	292	181	106	2810	81	50	66
3	6.0	7.9	9.8	e6.0	517	308	173	119	1290	75	44	34
4	6.3	7.5	12	e7.0	419	780	161	1260	5970	336	67	23
5	17	6.7	11	e8.0	297	579	141	800	4320	247	164	19
6	37	9.8	e9.5	e8.0	262	313	3950	497	13100	122	91	e17
7	55	13	e10	e9.0	489	227	1860	2300	5870	84	56	e16
8	49	36	9.1	e10	1890	194	711	840	1580	68	44	e15
9	25	75	9.6	e13	9520	162	431	389	882	58	37	e35
10	15	52	9.3	e18	5060	141	501	263	602	50	31	e50
11	9.9	34	e9.0	e23	2230	138	650	268	449	45	29	e40
12	7.8	26	e7.5	e48	973	182	1960	543	343	46	26	e30
13	6.7	19	e6.8	e150	648	300	689	854	266	41	24	e23
14	7.0	15	e6.0	e300	1190	292	368	5180	228	38	22	e18
15	8.3	13	e6.6	e1100	1050	4980	661	2740	323	37	23	e17
16	7.6	13	e7.0	e850	537	8390	1140	864	550	35	24	e16
17	7.4	14	e7.5	e510	514	4330	419	855	277	34	23	e18
18	6.3	14	e7.0	e170	380	1780	270	2370	216	33	21	e50
19	5.6	13	e7.0	e95	301	2000	213	723	179	33	19	e140
20	5.4	13	e7.0	e65	219	2450	182	373	227	489	19	e70
21	5.3	12	e6.5	e45	427	1630	736	294	6990	238	18	33
22	6.1	14	e6.5	e38	245	1170	607	294	3570	80	17	47
23	10	13	e6.5	e35	177	960	1140	224	1280	52	18	51
24	16	12	e6.5	e31	3320	609	677	178	581	42	21	43
25	24	11	e6.5	e30	6570	412	336	159	358	3000	36	32
26	22	9.6	e7.0	e30	3690	310	237	229	244	534	31	25
27	19	9.6	e7.0	e28	998	256	186	246	183	287	42	19
28	15	9.7	e7.0	e35	423	232	153	183	147	226	35	16
29	13	10	e7.0	855	---	230	129	144	122	182	24	15
30	10	11	e8.0	2660	---	222	112	131	105	105	22	15
31	8.3	---	e8.0	1550	---	205	---	6090	---	76	23	---
MEAN	14.5	17.0	8.04	282	1557	1110	639	956	1941	221	37.4	34.8
MAX	55	75	12	2660	9520	8390	3950	6090	13100	3000	164	140
MIN	5.3	6.7	6.0	6.0	177	138	112	106	105	33	17	15
IN.	.03	.03	.02	.59	2.95	2.33	1.30	2.00	3.94	.46	.08	.07

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	165	202	143	192	332	490	590	469	720	282	135	163
MAX	1174	2272	803	1027	1557	1898	2103	2647	5820	2903	1812	2079
(WY)	1930	1932	1943	1946	2001	1961	1944	1935	1947	1958	1932	1970
MIN	.92	2.38	2.70	1.29	3.61	6.47	5.92	23.2	4.72	.40	.67	1.97
(WY)	1957	1957	1938	1940	1957	1957	1956	1938	1934	1934	1936	1955

SUMMARY STATISTICS	FOR JUL 14-SEP 30 2000		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN			559		318	
HIGHEST ANNUAL MEAN					796	1947
LOWEST ANNUAL MEAN					21.4	1934
HIGHEST DAILY MEAN	147	Jul 12	13100	Jun 6	27300	Jun 6 1947
LOWEST DAILY MEAN	1.6	Sep 19	5.3	Oct 21	.00	Jul 17-Aug 11 1934
ANNUAL SEVEN-DAY MINIMUM	2.1	Sep 13	6.2	Oct 16	.00	Jul 17 1934
MAXIMUM PEAK FLOW	---		15600	Jun 6	38000	Jun 6 1947
MAXIMUM PEAK STAGE	---		23.23	Jun 6	26.93	Jun 6 1947
INSTANTANEOUS LOW FLOW	---		5.0[a]	Oct 21	.00	Jul 17-Aug 11 1934
ANNUAL RUNOFF (INCHES)	---		13.80		7.87	
10 PERCENT EXCEEDS	27		1270		606	
50 PERCENT EXCEEDS	9.1		68		45	
90 PERCENT EXCEEDS	3.4		7.7		4.0	

e Estimated
[a] Minimum recorded, may have been less during period of ice effect, Dec. 11 to Jan. 7.

06902000 GRAND RIVER NEAR SUMNER, MO

LOCATION.--Lat 39°38'25", long 93°16'25", in NE $^1/_4$ sec.29, T.56 N., R.21 W., Livingston County, Hydrologic Unit 10280103, near right bank on downstream side of pier of bridge on State Highway 139, 240 ft downstream from Chicago, Burlington and Quincy Railroad Bridge, 2.0 mi southwest of Sumner, 2.5 mi downstream from Locust Creek, and at mile 41.0.

DRAINAGE AREA.--6,880 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1923 to current year. Prior to April 1924 monthly discharge only, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 631.18 ft above sea level. Prior to July 11, 1926, nonrecording gage at site 200 ft upstream at same datum; July 11, 1926, to July 9, 1939, nonrecording gage at same site and datum; July 10, 1939, to Aug. 8, 1952, water-stage recorder at site 200 ft upstream at same datum; Aug. 9, 1952, to Nov. 12, 1953, nonrecording gage at site 120 ft upstream and at same datum; Nov. 13, 1953, to July 6, 1964, water-stage recorder and nonrecording gage, for stages below 8.3 ft, at site 120 ft upstream and at same datum; July 7, 1964, to May 26, 1965, nonrecording gage at present site and datum. Auxiliary water-stage recorder at site 3.2 mi downstream from base gage at datum 631.30 ft above sea level; Mar. 15, 1939, to Aug. 4, 1942, auxiliary nonrecording gage at various sites; Aug. 5, 1942, to Dec. 14, 1956, auxiliary nonrecording gage at present site.

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 9, 1909, reached a stage of 36.7 ft, from floodmark.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	382	285	210	e198	6450	7540	3450	1700	51800	2240	2460	894
2	341	274	208	e203	3150	6300	3580	1600	46600	1940	1750	692
3	281	272	221	e203	1830	5520	3710	1670	25200	1740	e1550	569
4	246	316	228	e210	1670	6360	3510	3920	31800	7410	e1970	462
5	252	526	207	e215	1790	8780	3220	8570	48600	16600	e1780	404
6	432	470	196	e217	2430	8010	5950	8900	54000	8250	1130	373
7	700	590	216	e214	3400	e6000	13900	21300	69100	4230	982	349
8	578	2240	193	e210	4170	4820	9540	16000	60600	2840	877	363
9	395	2030	196	e210	36100	4250	6250	7590	34700	2270	804	617
10	313	1410	196	e217	44000	3560	e10100	5200	14700	1880	731	683
11	277	980	189	e213	21100	3320	e14500	10500	7000	1620	665	630
12	247	697	209	e214	8780	3980	e16300	24400	5600	1470	613	635
13	226	555	215	e220	5510	8190	e17500	12600	e4500	1900	572	524
14	222	468	201	902	6660	11600	e9500	13900	e3800	2660	543	486
15	277	420	197	4320	9180	23800	e5800	16700	9490	1800	517	434
16	528	372	203	5310	6650	55600	e8170	11300	29500	1330	509	393
17	542	364	203	3180	4290	52600	7800	7560	13400	1130	491	406
18	358	328	e200	1980	2900	35600	5790	26900	6940	1020	486	630
19	256	301	e201	1420	2650	22700	4000	14800	6340	958	474	4480
20	219	278	e198	e1300	2980	20100	3240	6690	11400	1020	453	4440
21	195	220	e195	e1150	4610	19400	9670	5170	44700	3610	430	2250
22	198	221	e194	e1000	4440	17700	13900	6340	63100	2060	415	1220
23	204	248	e193	932	3120	20100	11300	4170	54600	1640	410	880
24	686	247	e193	759	8190	14900	8480	3010	21600	1360	497	911
25	1300	243	e193	683	57300	10200	5290	2510	8370	6800	2140	832
26	777	244	e190	595	63400	7390	3760	2370	6030	29800	4570	736
27	508	253	e190	512	38300	5590	3070	2640	4960	13100	2680	619
28	432	238	e191	495	13700	4770	2570	2550	3940	6650	1130	562
29	365	226	e191	1010	---	4250	2200	2330	3280	12000	730	495
30	334	212	e195	7890	---	4020	1890	2250	2660	7670	575	445
31	309	---	e198	11800	---	3680	---	22200	---	3670	545	---
MEAN	399	518	200	1548	13170	13250	7265	8946	24940	4925	1080	914
MAX	1300	2240	228	11800	63400	55600	17500	26900	69100	29800	4570	4480
MIN	195	212	189	198	1670	3320	1890	1600	2660	958	410	349
IN.	.07	.08	.03	.26	1.99	2.22	1.18	1.50	4.05	.83	.18	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2001, BY WATER YEAR (WY)

MEAN	2722	2947	2046	1955	3843	6109	7139	6507	7527	4695	1724	3074
MAX	20630	29030	15440	14750	19250	34220	26680	43450	67270	87900	9194	28090
(WY)	1974	1932	1983	1932	1962	1979	1973	1995	1947	1993	1987	1926
MIN	37.1	40.3	53.0	32.1	57.0	79.5	67.3	130	176	52.8	41.0	62.5
(WY)	1957	1957	1956	1940	1939	1957	1956	1956	1988	1934	1936	1955

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1925 - 2001	
ANNUAL MEAN	696		6352		4183	
HIGHEST ANNUAL MEAN					17390	1993
LOWEST ANNUAL MEAN					367	1934
HIGHEST DAILY MEAN	29500	Jun 25	69100	Jun 7	166000	Jun 8 1947
LOWEST DAILY MEAN	83	Sep 19	189	Dec 11	10	Aug 12 1934
ANNUAL SEVEN-DAY MINIMUM	96	Sep 16	192	Dec 23	12	Aug 7 1934
MAXIMUM PEAK FLOW	---		74600	Jun 7	180000	Jun 8 1947
MAXIMUM PEAK STAGE	---		38.50	Jun 7	42.52	Jul 10 1993
INSTANTANEOUS LOW FLOW	---		189	Dec 11	10	Aug 12 1934
ANNUAL RUNOFF (INCHES)	1.38		12.54		8.26	
10 PERCENT EXCEEDS	1050		16600		10300	
50 PERCENT EXCEEDS	258		1790		990	
90 PERCENT EXCEEDS	130		211		131	

e Estimated

06902000 GRAND RIVER NEAR SUMNER, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1962 to June 1963, August 1967 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1974 to September 1981.
WATER TEMPERATURE: January 1974 to September 1981.

REMARKS.--National Stream-Quality Accounting Network station October 1967 to September 1993. Ambient Water-Quality Monitoring Network station October 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT												
02...	1300	ENVIRONMENTAL	341	10.8	118	8.3	327	19.6	--	--	--	--
NOV												
21...	0830	ENVIRONMENTAL	220	13.5	91	7.6	280	.1	220	68.2	12.3	5.41
DEC												
05...	1245	ENVIRONMENTAL	207	14.6	101	8.0	338	1.2	--	--	--	--
JAN												
03...	1000	BLANK	--	--	--	--	--	--	--	--	--	--
03...	1030	ENVIRONMENTAL	e203	5.8	40	7.2	387	.1	260	80.1	14.9	2.69
FEB												
14...	0830	ENVIRONMENTAL	5880	12.9	90	7.2	224	.6	--	--	--	--
MAR												
06...	0909	BLANK	--	--	--	--	--	--	--	--	--	--
06...	0910	ENVIRONMENTAL	8040	13.1	94	7.3	131	2.2	--	--	--	--
APR												
17...	1415	ENVIRONMENTAL	7800	8.9	83	7.5	297	12.7	--	--	--	--
MAY												
01...	0900	ENVIRONMENTAL	1740	7.6	85	8.0	434	20.7	200	60.5	11.7	3.98
JUN												
19...	0945	ENVIRONMENTAL	6690	5.9	71	8.5	238	24.3	--	--	--	--
19...	0946	REPLICATE	--	--	--	--	--	--	--	--	--	--
JUL												
10...	1330	ENVIRONMENTAL	1830	7.0	97	7.8	346	30.6	150	46.6	8.17	4.51
AUG												
13...	1330	ENVIRONMENTAL	572	7.4	97	7.9	477	28.0	--	--	--	--
SEP												
05...	0900	ENVIRONMENTAL	404	7.1	88	7.7	418	25.1	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT													
02...	--	129	127	147	4	--	--	--	--	--	<.020	1.2	<.050
NOV													
21...	16.9	187	188	229	0	13.7	.3	34.8	12	279	.139	.63	.544
DEC													
05...	--	200	200	244	0	--	--	--	--	--	.211	.67	.600
JAN													
03...	--	--	--	--	--	--	--	--	--	--	<.040	E.07	<.050
03...	26.1	420	419	511	0	21.9	.2	48.1	<10	389	.257	.61	.890
FEB													
14...	--	75	75	91	--	--	--	--	--	--	.106	1.9	1.45
MAR													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	75	75	92	0	--	--	--	--	--	.302	2.5	1.31
APR													
17...	--	107	108	131	0	--	--	--	--	--	.066	2.0	.947
MAY													
01...	12.3	160	160	195	0	11.4	.2	36.5	90	264	<.041	.81	<.047
JUN													
19...	--	120	114	126	6	--	--	--	--	--	<.040	3.8	.887
19...	--	--	--	--	--	--	--	--	--	--	<.040	3.8	1.00
JUL													
10...	8.1	138	139	168	0	6.5	.3	22.0	174	210	<.040	1.1	.157
AUG													
13...	--	196	196	240	0	--	--	--	--	--	<.040	.65	<.050
SEP													
05...	--	175	177	216	0	--	--	--	--	--	<.040	.72	<.050

06902000 GRAND RIVER NEAR SUMNER, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
02...	<.010	E.031	.022	.277	--	K12	K120	160	--	--	--	--	--
NOV													
21...	.006	<.060	<.018	.081	16	23	37	32	9	98	.8	<8.00	<.11
DEC													
05...	.012	<.060	<.018	.076	--	K8	K15	K8	--	--	--	--	--
JAN													
03...	<.006	<.060	<.020	<.060	--	--	--	--	--	--	--	--	--
03...	.033	<.060	<.018	E.033	11	K16	25	55	9	29	.6	<8.00	E.06
FEB													
14...	.031	.141	.062	.532	--	K240	480	K2000	--	--	--	--	--
MAR													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
06...	.034	.145	.085	.789	--	150	450	3400	--	--	--	--	--
APR													
17...	.063	.110	.050	.762	--	3600	3900	1400	--	--	--	--	--
MAY													
01...	<.006	E.056	.049	.221	21	K40	K50	100	38	673	2.0	<8.00	E.06
JUN													
19...	.044	.080	.073	1.33	--	6400	5200	8500	--	--	--	--	--
19...	.031	.079	.071	1.35	--	--	--	--	--	--	--	--	--
JUL													
10...	.014	.064	.042	.264	25	250	420	84	29	1660	1.8	<8.00	E.08
AUG													
13...	<.006	E.047	.040	.165	--	K16	K23	K5	--	--	--	--	--
SEP													
05...	<.006	<.060	.019	.168	--	44	110	44	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)
OCT													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
21...	<4.7	90	E.06	<1	543	<.14	--	3	<.002	<.004	<.002	<.005	.107
DEC													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	<4.7	110	E.07	<1	3470	<.14	--	3	--	--	--	--	--
FEB													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
06...	--	--	--	--	--	--	--	--	<.002	<.004	<.002	<.005	E.002
06...	--	--	--	--	--	--	--	--	<.002	<.004	<.002	<.005	.400
APR													
17...	--	--	--	--	--	--	--	--	<.002	<.004	.007	<.005	.119
MAY													
01...	<4.7	60	E.08	1	32.8	.02	--	12	<.002	.072	.006	<.005	.568
JUN													
19...	--	--	--	--	--	--	--	--	<.002	.678	.031	<.005	5.42
19...	--	--	--	--	--	--	--	--	<.002	.681	.033	<.005	5.39
JUL													
10...	E2.6	40	<.08	3	E1.8	.19	15	11	<.002	.181	.016	<.005	1.56
AUG													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--

06902000 GRAND RIVER NEAR SUMNER, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL-ATE, WATER, DISS, REC (µg/L) (04028)	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (µg/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)	DI-ELDRIN DIS-SOLVED (µg/L) (39381)	DISUL-FOTON WATER FLTRD 0.7µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7µ GF, REC (µg/L) (82663)
OCT													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
21...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.026	<.005	<.005	<.021	<.002	<.009
DEC													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
06...	E.006	<.002	E.006	<.020	E.005	<.018	.004	E.002	E.002	E.004	<.021	<.002	E.006
06...	E.008	<.002	E.009	<.020	.005	E.006	.005	E.028	E.002	<.005	<.021	<.002	E.007
APR													
17...	<.010	<.002	<.041	<.020	<.005	E.010	<.003	E.022	<.005	<.005	<.021	<.002	<.009
MAY													
01...	<.010	<.002	<.041	<.020	<.005	E.005	<.003	E.031	<.005	<.005	<.021	<.002	<.009
JUN													
19...	<.010	<.002	<.041	<.020	<.005	.018	<.003	E.257	<.005	<.005	<.021	<.002	<.009
19...	<.010	<.002	<.041	<.020	<.005	.019	<.003	E.301	<.005	<.005	<.021	<.002	<.009
JUL													
10...	<.010	<.002	<.041	<.020	<.005	E.010	<.003	E.227	<.005	<.005	<.021	<.002	<.009
AUG													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ETHO-PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS-SOLVED (µg/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA-THION, DIS-SOLVED (µg/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA-THION, DIS-SOLVED (µg/L) (39542)
OCT													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
21...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.048	<.006	<.002	<.007	<.003	<.007
DEC													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
06...	<.005	E.003	<.004	<.035	E.003	<.050	<.006	E.002	<.006	<.002	E.004	E.002	<.007
06...	<.005	<.003	<.004	<.035	E.005	<.050	.022	.034	<.006	<.002	E.006	.007	<.007
APR													
17...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.094	<.006	<.002	<.007	<.003	<.007
MAY													
01...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.200	<.006	<.002	<.007	<.003	<.007
JUN													
19...	<.005	<.003	<.004	<.035	<.027	<.050	.145	1.15	.049	<.002	<.007	<.003	<.007
19...	<.005	<.003	<.004	<.035	<.027	<.050	.169	1.16	.054	<.002	<.007	<.003	<.007
JUL													
10...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.395	<.006	<.002	<.007	<.003	<.007
AUG													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--

06902000 GRAND RIVER NEAR SUMNER, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PEBULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDIMETHALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PERMETHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PROMETON, WATER, DISS, REC (µg/L) (04037)	PRONAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPACHLOR, WATER, DISS, REC (µg/L) (04024)	PROPANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PROPARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SIMAZINE, WATER, DISS, REC (µg/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TERBACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TERBUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)
OCT													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
21...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.022	<.016	<.034	<.017
DEC													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
06...	<.002	E.007	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
06...	<.002	.011	<.006	<.011	E.005	<.004	<.010	<.011	<.023	E.009	<.016	<.034	<.017
APR													
17...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	E.004	<.016	<.034	<.017
MAY													
01...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.031	<.016	<.034	<.017
JUN													
19...	<.002	<.010	<.006	<.011	E.004	<.004	<.010	<.011	<.023	.200	<.016	<.034	<.017
19...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.202	E.009	<.034	<.017
JUL													
10...	<.002	<.010	<.006	<.011	E.006	<.004	<.010	<.011	<.023	.040	<.016	<.034	<.017
AUG													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	THIOENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIALLATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRIFLURALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)
OCT			
02...	--	--	--
NOV			
21...	<.005	<.002	<.009
DEC			
05...	--	--	--
JAN			
03...	--	--	--
03...	--	--	--
FEB			
14...	--	--	--
MAR			
06...	E.004	.004	E.006
06...	E.005	.005	E.008
APR			
17...	<.005	<.002	<.009
MAY			
01...	<.005	<.002	<.009
JUN			
19...	<.005	<.002	E.004
19...	<.005	<.002	E.004
JUL			
10...	<.005	<.002	<.009
AUG			
13...	--	--	--
SEP			
05...	--	--	--

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

06904050 CHARITON RIVER AT LIVONIA, MO

LOCATION.--Lat 40°29'00", long 92°41'10", in NW $^1/_4$ SE $^1/_4$ NW $^1/_4$ sec.34, T.66 N., R.16 W., Schuyler County, Hydrologic Unit 10280201, on left bank 10 ft downstream from bridge on U.S. Highway 136, 1.0 mi upstream from Shoal Creek, 0.5 mi east of Livonia, and at mile 90.9.

DRAINAGE AREA.--864 mi^2.

PERIOD OF RECORD.--May 1974 to current year. Occasional discharge measurements were made from October 1962 to May 1974.

REVISED RECORDS.--WDR MO-83-1: 1981.

GAGE.--Water-stage recorder. Datum of gage is 770.00 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Considerable regulation by Rathbun Lake (station 06903880), 51.0 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	37	29	e25	e522	940	1410	1290	e2970	1390	1170	141
2	29	31	28	e26	e322	1120	1410	930	e2810	1380	856	88
3	27	39	27	e27	e244	1310	1390	813	e2580	1410	650	63
4	26	42	26	e28	e200	1570	1390	607	2530	1440	348	59
5	38	36	e24	e30	e197	1370	1400	477	2690	1380	213	52
6	47	35	e20	e35	e350	1050	1490	286	3060	1360	123	54
7	48	41	26	e40	e505	860	1570	380	2390	1360	93	53
8	38	114	e30	e40	1240	823	1460	462	1190	1350	71	57
9	31	76	e29	e35	3280	1080	1470	871	751	1340	67	63
10	28	53	28	e38	2590	1080	1710	872	974	1340	62	68
11	27	45	e26	e45	2270	1190	1830	1450	919	1330	68	61
12	28	41	e25	e60	1430	1440	2140	1900	883	1320	63	62
13	32	33	e25	e70	796	1570	1970	1020	855	1320	58	57
14	31	31	e25	e80	839	1380	1620	1640	1740	1310	56	55
15	30	29	e24	e100	843	3210	1780	1540	3080	1300	56	55
16	27	28	e30	e150	623	3990	1980	1480	e2280	1300	55	55
17	26	28	e29	e140	456	3450	1670	1490	e1500	1300	67	55
18	28	28	e28	e130	361	2630	1510	1550	e927	1300	64	60
19	37	27	e28	e100	325	1600	1470	1470	659	1330	58	62
20	37	37	e28	e80	414	2010	1480	1420	1110	1340	55	74
21	33	35	e29	e70	667	2080	1540	1420	3090	1360	53	181
22	28	36	e27	e60	538	1980	1490	1420	2990	1350	53	316
23	27	37	e28	e55	390	1750	1900	1390	2410	1340	52	100
24	28	32	e30	e60	1200	1420	1730	1380	1780	1030	57	61
25	30	27	e28	e60	2880	1200	1600	1390	1580	891	74	58
26	31	27	e29	e60	e2000	1130	1540	1390	e1500	1330	107	50
27	24	33	e29	e60	e1650	1280	1510	1390	e1460	1330	97	45
28	20	33	e28	e100	e1200	1420	1490	1380	e1430	1330	64	42
29	21	33	e28	179	---	1420	1490	1370	1410	1320	55	e41
30	26	31	e27	929	---	1420	1480	1340	1400	1320	52	e40
31	38	---	e26	e805	---	1410	---	e2610	---	1320	94	---
MEAN	30.7	38.5	27.2	120	1012	1619	1597	1240	1832	1317	162	74.3
MAX	48	114	30	929	3280	3990	2140	2610	3090	1440	1170	316
MIN	20	27	20	25	197	823	1390	286	659	891	52	40
IN.	.04	.05	.04	.16	1.22	2.16	2.06	1.65	2.37	1.76	.22	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2001, BY WATER YEAR (WY)

MEAN	430	468	598	352	557	877	875	921	875	1043	634	488
MAX	1764	1714	2005	1797	1956	2046	1898	2239	1839	3923	2045	2029
(WY)	1994	1994	1983	1993	1983	1993	1983	1995	1980	1993	1993	1993
MIN	27.2	26.2	19.9	13.6	23.0	47.6	31.1	33.1	33.6	23.6	32.3	29.6
(WY)	1977	1990	1977	1977	1989	2000	1989	2000	1988	1988	1988	1976

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1974 - 2001	
ANNUAL MEAN	75.2		752		678	
HIGHEST ANNUAL MEAN					1838	1993
LOWEST ANNUAL MEAN					69.3	1989
HIGHEST DAILY MEAN	1640	Jun 27	3990	Mar 16	8960	Jul 18 1982
LOWEST DAILY MEAN	20	Oct 28,Dec 6	20	Oct 28,Dec 6	13	Jan 11 1977
ANNUAL SEVEN-DAY MINIMUM	25	May 20	26	Oct 24	13	Jan 11 1977
MAXIMUM PEAK FLOW	---		4380	Mar 15	9200	Jul 18 1982
MAXIMUM PEAK STAGE	---		18.84	Mar 15	28.33	Jul 18 1982
INSTANTANEOUS LOW FLOW	---		17[a]	Dec 5	13	Jan 11 1977
ANNUAL RUNOFF (INCHES)	1.18		11.82		10.65	
10 PERCENT EXCEEDS	105		1720		1600	
50 PERCENT EXCEEDS	39		322		393	
90 PERCENT EXCEEDS	28		28		32	

e Estimated
[a] Minimum recorded, may have been less during period of ice effect, Dec. 6 to Jan. 4.

06904500 CHARITON RIVER AT NOVINGER, MO

LOCATION.--Lat 40°14'05", long 92°41'14", on south line of SE $^1/_4$ NE $^1/_4$ sec.28, T.63 N., R.16 W., Adair County, Hydrologic Unit 10280202, on downstream side of center pier of bridge on State Highway 6, 0.6 mi east of Novinger, 1.0 mi downstream from Rye Creek, 2.0 mi upstream from Spring Creek, and at mile 73.1.

DRAINAGE AREA.--1,370 mi^2, approximately.

PERIOD OF RECORD.--October 1930 to September 1952. October 1954 to current year. Prior to February 1931 monthly discharge only, published in WSP 1310.

REVISED RECORDS.--WSP 896: 1939. WSP 1116: 1932(M).

GAGE.--Water-stage recorder. Datum of gage is 737.65 ft above sea level. Prior to Dec. 20, 1939, nonrecording gage at bridge over old channel, 500 ft east, at the same datum; Dec. 20, 1939, to Sept. 30, 1952, and Oct. 1, 1954, to Aug. 1, 1956, water-stage recorder, supplemented by nonrecording gage, at same site and datum; Aug. 3, 1956, to May 16, 1957, nonrecording gage at present site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Some regulation by Rathbun Lake (Iowa station 06903880). U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,900 ft^3/s, June 13, 1947; gage height, 28.50 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 28.6 ft, June 1917.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	39	34	e42	847	1490	1940	1890	e9000	1650	1330	300
2	38	38	32	e43	505	1680	1930	1370	e6500	1610	917	166
3	34	34	26	e44	390	1960	1880	1230	e4000	1620	943	85
4	58	43	30	e46	294	2650	1850	1170	e10000	2550	871	62
5	88	43	21	e48	257	2320	3330	1260	7990	1690	552	53
6	148	49	19	e50	436	1830	6220	963	12800	1580	322	48
7	91	67	e35	e55	559	1420	3080	1460	6020	1540	234	47
8	74	125	28	e55	3200	1260	2550	969	3350	1500	175	50
9	54	156	29	e50	15600	1490	2280	1260	1770	1470	139	51
10	43	131	35	e52	6860	1530	e2500	1280	1820	1450	115	58
11	37	92	23	e62	3920	1570	3450	1860	1640	1430	98	58
12	35	72	34	e75	2630	2160	e4500	3200	1500	1420	94	55
13	34	60	43	e88	1720	2640	e3370	1970	1400	1400	81	52
14	36	49	42	e100	2180	2220	e2640	4230	5930	1380	71	48
15	34	45	e40	e130	1810	10700	e4500	e3050	12100	1370	68	47
16	33	41	e45	e200	1300	13100	e3500	2390	4660	1360	70	48
17	30	36	e44	e180	852	8310	e2800	2250	2370	1350	65	48
18	30	35	e43	e170	e550	6430	2300	2500	1590	1360	77	95
19	32	39	e43	e140	e550	4240	2140	2250	1150	1430	69	154
20	36	27	e43	e120	e540	5040	e1950	2050	1370	1510	63	83
21	36	34	e45	e95	e600	4700	e2170	2020	10400	1450	59	420
22	33	46	e42	e90	e700	4080	e2180	2030	7870	1430	57	393
23	34	51	e44	e88	652	3540	e2800	1930	4590	1410	60	221
24	42	42	e47	e90	6390	2690	e2700	1890	3050	1280	56	119
25	49	41	e44	e90	9400	2120	2340	1890	2340	1650	74	87
26	41	33	e46	e90	5200	1830	2170	1900	2070	1540	82	78
27	37	34	e46	e110	3920	1780	2080	1910	1910	1550	153	67
28	30	36	e45	168	2400	2030	2020	1880	1820	1590	94	61
29	27	37	e45	759	---	2020	1960	1850	1750	1480	65	56
30	26	35	e44	1880	---	1990	1930	1960	1690	1430	73	53
31	31	---	e43	1270	---	1960	---	e7940	---	1400	67	---
MEAN	45.1	53.7	38.1	209	2652	3315	2702	2123	4482	1512	232	105
MAX	148	156	47	1880	15600	13100	6220	7940	12800	2550	1330	420
MIN	26	27	19	42	257	1260	1850	963	1150	1280	56	47
IN.	.04	.04	.03	.18	2.02	2.79	2.20	1.79	3.65	1.27	.20	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2001[a], BY WATER YEAR (WY)

MEAN	773	736	879	577	1002	1595	1631	1816	1373	1523	789	750
MAX	3352	2403	3318	2686	2652	4105	5302	5447	4482	9877	2770	3232
(WY)	1974	1993	1983	1993	2001	1993	1973	1995	2001	1993	1993	1993
MIN	25.6	30.2	20.0	13.6	28.0	73.8	35.8	43.0	46.1	32.2	28.1	39.3
(WY)	1972	1990	1977	1977	1989	2000	1989	2000	1988	1970	1971	1988

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1970 - 2001[a]	
ANNUAL MEAN	104		1442		1121	
HIGHEST ANNUAL MEAN					3299	1993
LOWEST ANNUAL MEAN					107	2000
HIGHEST DAILY MEAN	2810	Jun 27	15600	Feb 9	20800	May 27 1996
LOWEST DAILY MEAN	19	Dec 6	19	Dec 6	11	Aug 1 1970
ANNUAL SEVEN-DAY MINIMUM	27	Dec 3	27	Dec 3	12	Jul 26 1970
MAXIMUM PEAK FLOW	---		18700	Feb 9	22000	May 27 1996
MAXIMUM PEAK STAGE	---		20.37	Feb 9	25.71	Jul 24 1993
INSTANTANEOUS LOW FLOW	---		11	Dec 6	11	Aug 1 1970, Jan 1 1995, Dec 6 2000
ANNUAL RUNOFF (INCHES)	1.04		14.29		11.12	
10 PERCENT EXCEEDS	152		3400		2390	
50 PERCENT EXCEEDS	50		550		571	
90 PERCENT EXCEEDS	31		36		41	

e Estimated
[a] Post-regulation period.

06905500 CHARITON RIVER NEAR PRAIRIE HILL, MO

LOCATION.--Lat 39°32'25", long 92°47'23", in NW $^1/_4$ SW $^1/_4$ sec.26, T.55 N., R.17 W., Chariton County, Hydrologic Unit 10280202, on right bank on downstream side of road at bridge on State Highway 129, 3.2 mi northwest of Prairie Hill, 13.5 mi upstream from Puzzle Creek, and at mile 19.6.

DRAINAGE AREA.--1,870 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to current year. Prior to Oct. 1, 1953, published as "near Keytesville". Prior to May 1929, monthly discharge only, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 632.05 ft above sea level (levels by the U.S. Army Corps of Engineers). Prior to Oct. 1, 1953, nonrecording gage at site 8.2 mi downstream at datum 13.68 ft lower; Oct. 1, 1953, to July 2, 1958, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. Some regulation by Rathbun Lake (Iowa station 06903880). National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	50	70	e65	1570	2380	1910	1750	9380	1800	1670	119
2	79	41	73	e66	859	1690	1880	1720	7520	1750	1600	174
3	66	48	66	e67	463	1990	1900	1260	6030	1720	e1500	300
4	56	50	63	e67	502	2490	1920	1220	10600	2010	e1350	194
5	95	47	60	e68	523	2970	1840	1230	11300	2550	e1200	129
6	155	70	50	e69	581	2470	6550	1250	22300	1850	817	102
7	161	139	50	e74	728	1940	4340	1010	13800	1730	516	93
8	203	144	66	e76	1340	1530	3100	1580	6140	1690	358	91
9	140	553	67	e72	20000	1350	2480	1070	3340	1670	282	94
10	107	595	61	e70	10400	1580	2320	1140	1990	1650	233	80
11	82	350	e60	e85	5160	1620	3000	1250	1980	1630	197	75
12	66	239	e60	e100	3620	1720	4220	1720	1750	1640	171	78
13	58	179	e65	e120	2450	2320	4260	2860	1580	1610	155	77
14	55	142	e64	e140	1810	2680	3140	2670	1490	1590	146	70
15	142	120	e65	e200	2460	4900	2640	4030	15100	1580	140	66
16	126	103	e68	e300	1810	16600	4080	2730	8360	1570	137	62
17	76	91	e67	e700	1160	8470	3290	2480	4400	1570	125	79
18	61	81	e65	e500	587	6900	2520	2660	2530	1580	121	e110
19	54	75	e65	e400	609	5470	2130	2520	1860	1590	109	177
20	49	63	e66	e325	681	4550	1960	2140	1390	1670	113	280
21	46	e58	e67	e300	628	4900	3950	2140	6810	1770	107	204
22	52	56	e68	e270	808	4490	3540	1930	10500	1700	98	532
23	59	63	e66	e250	784	3870	2610	1880	6310	1670	95	486
24	59	71	e66	e220	3850	3270	3730	1780	4220	1650	134	431
25	53	76	e68	e200	12700	2490	2760	1740	2970	2960	133	263
26	52	84	e67	e180	5970	1960	2240	1760	2430	2350	108	181
27	76	79	e66	e200	4680	1690	2030	1760	2170	1900	104	144
28	65	71	e65	237	3740	1690	1920	1760	2010	1990	108	123
29	58	70	e65	2420	---	1950	1850	1730	1910	2010	164	107
30	50	69	e65	5650	---	1970	1790	1730	1840	1800	129	96
31	46	---	e64	2980	---	1940	---	5820	---	1710	180	---
MEAN	82.2	129	64.5	531	3231	3414	2863	2010	5800	1805	397	167
MAX	203	595	73	5650	20000	16600	6550	5820	22300	2960	1670	532
MIN	46	41	50	65	463	1350	1790	1010	1390	1570	95	62
IN.	.05	.08	.04	.33	1.80	2.11	1.71	1.24	3.46	1.11	.24	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001, BY WATER YEAR (WY)

MEAN	741	824	751	731	1148	1917	2085	2059	2041	1446	725	723
MAX	5695	6574	5449	4516	4102	5724	8981	9560	14830	15980	4856	5203
(WY)	1974	1962	1983	1946	1937	1973	1973	1995	1947	1993	1932	1993
MIN	9.59	9.77	13.0	12.9	18.1	37.3	45.9	69.8	25.8	13.4	7.97	13.6
(WY)	1957	1957	1957	1957	1957	1957	1956	2000	1934	1934	1936	1953

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1929 - 2001	
ANNUAL MEAN	161		1690		1264	
HIGHEST ANNUAL MEAN					4320	1993
LOWEST ANNUAL MEAN					159	2000
HIGHEST DAILY MEAN	2660	Jun 28	22300	Jun 6	31800	May 28 1996
LOWEST DAILY MEAN	25	May 25	41	Nov 2	4.6	Aug 7 1934
ANNUAL SEVEN-DAY MINIMUM	32	May 19	47	Oct 30	4.8	Aug 4 1934
MAXIMUM PEAK FLOW	---		27300	Jun 6	33600	May 27 1996
MAXIMUM PEAK STAGE	---		20.36	Jun 6	22.33	May 27 1996
INSTANTANEOUS LOW FLOW	---		29[a]	Dec 15	4.6	Aug 7 1934
ANNUAL RUNOFF (INCHES)	1.17		12.27		9.18	
10 PERCENT EXCEEDS	332		4050		3190	
50 PERCENT EXCEEDS	72		700		366	
90 PERCENT EXCEEDS	47		65		40	

e Estimated
[a] Minimum recorded (during period of ice effect).

06905500 CHARITON RIVER NEAR PRAIRIE HILL, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1962 to June 1963, August 1967 to July 1975, January 1978 to September 1986, November 1992 to current year.

REMARKS.--National Stream-Quality Accounting Network station January 1978 to September 1986 and an Ambient Water-Quality Monitoring Network station November 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
20...	1430	ENVIRONMENTAL	65	13.7	101	7.5	482	2.6	210	62.3	14.3	5.14
20...	1431	REPLICATE	--	--	--	--	--	--	220	63.5	14.6	5.15
JAN												
02...	1550	ENVIRONMENTAL	e66	7.6	52	7.1	272	.1	--	--	--	--
MAR												
05...	1500	ENVIRONMENTAL	2970	12.0	89	7.5	308	3.5	--	--	--	--
MAY												
01...	1240	BLANK	--	--	--	--	--	--	0	.08	.009	<.09
01...	1345	ENVIRONMENTAL	1770	9.8	108	8.0	275	20.0	120	34.3	7.61	5.04
JUL												
10...	0940	ENVIRONMENTAL	1650	7.0	91	7.6	248	27.2	--	--	--	--
SEP												
04...	1345	ENVIRONMENTAL	188	10.4	138	8.5	270	28.7	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
20...	16.2	150	152	186	0	12.5	.3	62.8	12	292	.114	.54	.366
20...	16.4	--	--	--	--	11.9	.2	63.1	11	295	.168	.53	.366
JAN													
02...	--	363	363	443	0	--	--	--	--	--	.246	.54	.327
MAR													
05...	--	87	89	109	0	--	--	--	--	--	.131	1.7	.486
MAY													
01...	.4	--	--	--	--	<.1	<.2	E.1	<10	<10	<.041	<.08	<.047
01...	6.6	91	90	110	0	6.9	.2	29.4	109	194	<.041	.80	.810
JUL													
10...	--	81	81	98	0	--	--	--	--	--	<.040	.87	1.11
SEP													
04...	--	104	103	116	5	--	--	--	--	--	<.040	1.1	.164

06905500 CHARITON RIVER NEAR PRAIRIE HILL, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITROGEN, NITRITE DISSOLVED (mg/L as N) (00613)	PHOSPHORUS DISSOLVED (mg/L as P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) (00671)	PHOSPHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEMICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	ARSENIC DISSOLVED (µg/L as As) (01000)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
20...	.007	<.060	<.018	E.049	16	K1	100	43	16	103	.5	<8.00	<.10
20...	E.005	E.032	E.012	E.058	14	--	--	--	14	104	.5	<8.00	<.10
JAN													
02...	.015	<.060	<.018	<.060	--	K2	K4	K11	--	--	--	--	--
MAR													
05...	.018	.083	.023	.610	--	83	110	650	--	--	--	--	--
MAY													
01...	<.006	<.060	<.018	<.060	11	--	--	--	7	7	<.2	<8.00	<.11
01...	.014	E.056	.036	.249	26	K25	K83	96	73	1460	.9	<8.00	E.08
JUL													
10...	.007	.080	.052	.279	--	80	160	160	--	--	--	--	--
SEP													
04...	.017	E.039	<.090	.306	--	130	190	K170	--	--	--	--	--

DATE	COPPER, DISSOLVED (µg/L as Cu) (01040)	IRON, DISSOLVED (µg/L as Fe) (01046)	LEAD, DISSOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOVERABLE (µg/L as Pb) (01051)	MANGANESE, DISSOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOVERABLE (µg/L as Hg) (71900)	ZINC, DISSOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOVERABLE (µg/L as Zn) (01092)
NOV								
20...	E2.9	140	E.04	M	679	<.10	--	2
20...	<5.0	140	<.08	<1	691	<.10	--	2
JAN								
02...	--	--	--	--	--	--	--	--
MAR								
05...	--	--	--	--	--	--	--	--
MAY								
01...	<4.7	<10	.10	<1	<3.2	<.01	10	<1
01...	<4.7	150	.20	3	11.5	.01	11	13
JUL								
10...	--	--	--	--	--	--	--	--
SEP								
04...	--	--	--	--	--	--	--	--

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

06905725 MUSSEL FORK NEAR MYSTIC, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 40°09'38", long 92°53'25", in NE $^1/_4$ NW $^1/_4$ SW $^1/_4$ sec.23, T.62 N., R.18 W., Sullivan County, Hydrologic Unit 10280202. Access is approximately 2 mi east of Mystic on the left bank on upstream side of bridge on County Highway H.

DRAINAGE AREA.--24.0 mi^2.

PERIOD OF RECORD.--November 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT												
25...	0930	ENVIRONMENTAL	.03	1.4	15	7.7	460	16.0	--	--	--	--
NOV												
15...	0800	ENVIRONMENTAL	.10	12.0	89	7.9	476	1.5	140	40.1	10.7	13.7
DEC												
20...	0915	ENVIRONMENTAL	.02	6.9	49	7.8	652	.5	--	--	--	--
JAN												
24...	0905	ENVIRONMENTAL	.24	8.6	61	7.3	499	.5	170	48.1	11.0	13.9
FEB												
14...	1500	ENVIRONMENTAL	59	12.7	91	7.5	166	.5	--	--	--	--
MAR												
28...	1020	ENVIRONMENTAL	4.3	11.8	92	8.1	312	3.5	--	--	--	--
APR												
25...	0945	ENVIRONMENTAL	4.1	9.6	96	8.0	357	14.0	--	--	--	--
MAY												
22...	1515	ENVIRONMENTAL	1.1	10.3	120	8.3	363	21.0	--	--	--	--
23...	0910	ENVIRONMENTAL	.82	8.6	89	8.0	361	15.0	150	42.8	9.69	5.79
JUN												
18...	1315	ENVIRONMENTAL	7.6	6.9	85	7.4	246	24.3	--	--	--	--
28...	0915	ENVIRONMENTAL	2.5	7.3	87	8.0	296	23.0	--	--	--	--
JUL												
26...	0855	ENVIRONMENTAL	4.8	8.2	99	7.5	184	23.5	60	17.6	3.84	7.22
AUG												
09...	0830	ENVIRONMENTAL	.13	5.3	66	7.8	325	25.0	--	--	--	--
SEP												
11...	0930	ENVIRONMENTAL	.03	7.5	83	7.8	404	19.0	--	--	--	--
11...	0931	REPLICATE	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT													
25...	--	192	192	234	0	--	--	--	--	--	.136	2.0	<.047
NOV													
15...	32.5	160	160	195	0	47.6	.2	11.5	<10	287	E.040	1.1	<.047
DEC													
20...	--	222	222	271	0	--	--	--	--	--	<.041	.60	<.047
JAN													
24...	29.0	122	122	149	0	50.9	E.1	38.6	10	306	.598	2.1	2.27
FEB													
14...	--	39	38	46	0	--	--	--	--	--	.501	1.9	1.30
MAR													
28...	--	92	93	113	0	--	--	--	--	--	.241	1.1	1.13
APR													
25...	--	123	123	150	0	--	--	--	--	--	E.027	1.1	<.047
MAY													
22...	--	141	142	173	0	--	--	--	--	--	<.040	.87	.275
23...	15.8	140	140	171	0	13.9	.2	22.5	11	212	E.040	.92	.225
JUN													
18...	--	90	90	110	0	--	--	--	--	--	E.026	1.3	.161
28...	--	116	116	142	0	--	--	--	--	--	.048	1.2	<.050
JUL													
26...	6.3	50	49	59	0	9.6	.2	12.6	228	140	.282	2.0	2.64
AUG													
09...	--	120	120	145	0	--	--	--	--	--	E.035	1.0	E.033
SEP													
11...	--	160	160	196	0	--	--	--	--	--	E.039	1.1	E.040
11...	--	158	158	193	0	--	--	--	--	--	.047	1.0	.047

06905725 MUSSEL FORK NEAR MYSTIC, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
25...	<.006	E.048	.034	.278	--	1900	1400	440	--	--	--	--	--
NOV													
15...	E.003	<.060	E.010	.080	37	380	470	170	8	197	1.4	<8.00	<.11
DEC													
20...	E.005	<.060	<.018	.061	--	68	60	55	--	--	--	--	--
JAN													
24...	.114	E.032	.018	.172	42	K15	85	78	7	289	.8	<8.00	<.11
FEB													
14...	.025	.295	.246	.424	--	670	840	6000	--	--	--	--	--
MAR													
28...	.016	<.060	E.011	.117	--	K2	62	53	--	--	--	--	--
APR													
25...	<.006	<.060	<.018	.115	--	830	730	120	--	--	--	--	--
MAY													
22...	.023	<.060	<.020	.077	--	K100	200	220	--	--	--	--	--
23...	.016	<.060	<.020	.077	31	200	290	820	4	159	1.3	<8.00	<.10
JUN													
18...	.034	.101	.044	.213	--	390	400	710	--	--	--	--	--
28...	.009	<.060	<.020	.110	--	760	440	620	--	--	--	--	--
JUL													
26...	.106	.090	.081	.395	59	K4100	4200	5200	8	4580	1.7	<8.00	E.09
AUG													
09...	<.006	<.060	<.020	.105	--	950	430	270	--	--	--	--	--
SEP													
11...	E.003	<.060	<.020	.097	--	--	160	340	--	--	--	--	--
11...	.006	<.060	<.020	.094	--	--	--	--	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
OCT								
25...	--	--	--	--	--	--	--	--
NOV								
15...	<4.7	110	.08	<1	323	<.14	4	2
DEC								
20...	--	--	--	--	--	--	--	--
JAN								
24...	<4.7	90	.10	<1	675	<.14	6	4
FEB								
14...	--	--	--	--	--	--	--	--
MAR								
28...	--	--	--	--	--	--	--	--
APR								
25...	--	--	--	--	--	--	--	--
MAY								
22...	--	--	--	--	--	--	--	--
23...	<5.0	30	E.04	<1	529	<.01	2	2
JUN								
18...	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--
JUL								
26...	<5.0	30	<.08	6	120	.02	2	24
AUG								
09...	--	--	--	--	--	--	--	--
SEP								
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

06906150 LONG BRANCH CREEK AT ATLANTA, MO

LOCATION.--Lat 39°53'51", long 92°29'34", in SE $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec.20, T.59N., R.14W., Macon County, Hydrologic Unit 10280203, at right upstream end of bridge on Marion Street, 0.65 mi east of Highway RA, and 0.3 mi west of Atlanta.

DRAINAGE AREA.--23.0 mi^2.

PERIOD OF RECORD.--July 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is 814.75 ft above sea level.

REMARKS.--Records fair except for period December through February and estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station. Published as "Long Branch Creek near Atlanta" 1995 to 2000.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.15	.10	e.00	e40	e12	3.6	1.7	57	.04	1.0	.18
2	.00	.14	.08	e.00	32	e12	3.3	.84	78	.01	.67	.22
3	.00	.11	.06	e.00	14	e11	3.5	.71	16	.03	50	.30
4	.00	.10	.06	e.02	7.2	e10	4.0	1.3	304	.03	125	.23
5	.65	.09	.05	e.10	e9.0	e9.0	4.3	4.5	230	.54	7.5	.14
6	8.1	.61	e.00	e.15	e35	6.4	4.9	5.0	684	.15	2.7	.21
7	.75	1.3	e.00	e.25	e40	4.9	4.3	8.9	482	.03	1.4	.20
8	.14	1.9	e.00	.48	e90	4.2	3.1	7.3	17	.02	.82	.25
9	.05	32	e.00	.42	e818	3.6	3.5	3.3	7.2	.02	7.1	.32
10	.01	29	e.00	.36	e223	3.1	6.8	1.3	3.4	.00	11	.31
11	.00	6.4	e.00	.38	e30	3.1	14	2.0	1.9	.00	1.1	.20
12	.00	2.4	e.00	.82	e15	3.9	16	2.4	1.1	.00	.61	.18
13	.00	1.4	e.00	e1.5	e12	5.5	11	1.5	.66	.00	.52	.22
14	.03	.91	e.00	e40	e20	5.2	7.7	4.6	1.2	.00	.29	.07
15	.08	.67	e.00	e20	e20	87	12	3.7	97	.00	.22	.03
16	.05	.47	e.00	e15	e15	497	13	3.0	20	.00	.21	.02
17	.30	.34	e.00	e7.0	e7.0	83	9.1	1.1	3.7	.00	.21	.06
18	e.35	.23	e.00	5.3	e5.0	102	6.1	.83	1.5	.00	.18	.20
19	e.25	.17	e.00	3.0	4.5	35	5.3	.55	.86	.00	.15	.85
20	e.20	.12	e.00	2.8	4.3	20	4.5	.34	.65	.00	.27	1.3
21	e.20	.07	e.02	1.4	3.5	11	185	.50	7.5	.01	.26	36
22	e.20	.03	e.05	1.1	2.6	8.5	51	.49	8.2	.00	.26	18
23	e.35	.02	e.05	e.80	2.4	8.0	22	.62	2.2	.00	.54	6.0
24	e.25	.01	e.10	e.65	e350	6.4	10	.35	.69	.00	.57	3.0
25	.20	.03	e.12	.57	e120	4.9	5.7	.40	.32	294	.48	1.0
26	.17	.06	e.07	.46	e30	3.8	3.5	.31	.13	138	.55	.47
27	.15	.06	e.10	.48	e45	3.4	2.8	.26	.06	12	.47	.31
28	.13	.06	e.10	e.76	e13	3.6	2.6	.20	.04	7.5	.46	.22
29	.13	.09	e.07	e190	---	4.7	1.5	.11	.02	4.9	.36	.25
30	.13	.08	e.05	e527	---	4.1	1.3	.33	.03	3.2	.33	.24
31	.12	---	e.02	e108	---	3.7	---	169	---	1.7	.38	---
MEAN	.42	2.63	.035	30.0	71.7	31.6	14.2	7.34	67.5	14.9	6.96	2.37
MAX	8.1	32	.12	527	818	497	185	169	684	294	125	36
MIN	.00	.01	.00	.00	2.4	3.1	1.3	.11	.02	.00	.15	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2001, BY WATER YEAR (WY)

MEAN	15.1	12.9	6.52	22.1	35.8	28.1	39.3	43.6	29.9	13.2	6.81	1.92
MAX	87.7	68.9	26.5	61.7	84.1	81.8	86.7	142	71.0	60.9	25.0	4.71
(WY)	1999	1999	1999	1999	1997	1998	1999	1996	1998	1998	1995	1998
MIN	.25	.44	.035	.10	1.69	3.02	.63	.54	3.66	.25	.025	.13
(WY)	1997	2000	2001	2000	2000	2000	2000	2000	1999	1999	1999	1997

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1995 - 2001	
ANNUAL MEAN	2.04		20.4		20.9	
HIGHEST ANNUAL MEAN					37.0	1999
LOWEST ANNUAL MEAN					1.88	2000
HIGHEST DAILY MEAN	157	Jun 26	818	Feb 9	1480	Oct 5 1998
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 25,Sep 4,Dec 6	.00	Dec 6,Jul 10	.00	At Times
MAXIMUM PEAK FLOW	---		1100	Jun 7	2590	Jul 4 1998
MAXIMUM PEAK STAGE	---		12.65	Jun 7	15.27	Jul 4 1998
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Several Years
10 PERCENT EXCEEDS	3.5		30		28	
50 PERCENT EXCEEDS	.23		.66		.91	
90 PERCENT EXCEEDS	.00		.00		.05	

e Estimated

06906190 LONG BRANCH RESERVOIR NEAR MACON, MO

LOCATION.--Lat 39°45'05", long 92°30'20", NW $^1/_4$ sec.10, T.57 N., R.14 W., Macon County, Hydrologic Unit 10280203, in Administration Building at left end of dam on East Fork Little Chariton River, 2.0 mi west of junction U.S. Highways 63 and 36 in Macon, and 2.0 mi below confluence with Long Branch.

DRAINAGE AREA.--109 mi^2.

PERIOD OF RECORD.--September 1978 to current year. Contents published 1982 to current year. Records collected at same site since 1978 are available from the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by the U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by a rolled earthfill type dam. Closure began on Sept. 3, 1976. Storage began on Aug. 2, 1978. An uncontrolled limited service type spillway, 50 ft wide, is located at the right abutment. Capacity of surcharge pool 98,590 ac-ft (elevation 801.1 ft to 820.7 ft); of flood control pool 30,600 ac-ft (elevation 791.1 ft to 801.0 ft); and of multipurpose pool 34,640 ac-ft (elevation 751.1 ft to 791.0 ft). Lake is used for flood control, water supply, water-quality control and recreation. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records furnished by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 61,800 ac-ft, May 28, 1995, elevation, 800.25 ft; minimum, 14,300 ac-ft, Dec. 5, 1980, elevation, 780.21 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 48,200 ac-ft, June 8, elevation, 796.14 ft; minimum, 19,300 ac-ft, Jan. 12, elevation, 783.70 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	784.87	784.54	784.33	783.94	786.76	793.30	792.85	792.32	792.01	792.85	791.43	790.13
2	784.85	784.54	784.33	783.92	786.83	793.25	792.74	792.26	792.17	792.74	791.39	790.07
3	784.85	784.54	784.32	783.89	786.86	793.13	792.70	792.22	792.26	792.61	791.33	790.04
4	784.86	784.52	784.27	783.89	786.87	793.08	792.66	792.23	792.54	792.61	791.30	789.99
5	784.84	784.51	784.27	783.86	786.90	793.02	792.58	792.33	793.43	792.52	791.37	789.93
6	784.90	784.49	784.26	783.86	786.90	792.93	792.48	792.15	794.28	792.39	791.34	789.88
7	784.86	784.50	784.21	783.85	786.95	792.86	792.41	792.14	795.70	792.29	791.28	789.81
8	784.86	784.50	784.23	783.84	787.02	792.78	792.39	792.09	796.14	792.20	791.23	789.80
9	784.81	784.57	784.21	783.82	787.92	792.70	792.34	792.08	795.96	792.12	791.16	789.77
10	784.79	784.57	784.19	783.80	790.36	792.63	792.29	792.04	795.77	792.03	791.11	789.71
11	784.77	784.60	784.19	783.76	791.14	792.58	792.27	792.03	795.58	791.94	791.05	789.65
12	784.73	784.62	784.19	783.70	791.24	792.51	792.29	791.99	795.38	791.90	791.00	789.60
13	784.71	784.62	784.18	783.83	791.26	792.45	792.25	791.93	795.19	791.83	790.93	789.54
14	784.68	784.62	784.19	783.95	791.30	792.41	792.22	792.01	794.97	791.76	790.88	789.48
15	784.79	784.61	784.18	784.08	791.36	792.38	792.23	791.98	794.92	791.68	790.81	789.41
16	784.77	784.58	784.18	784.20	791.43	792.93	792.20	791.96	794.95	791.61	790.81	789.35
17	784.75	784.58	784.18	784.20	791.44	793.37	792.15	791.92	794.76	791.53	790.75	789.32
18	784.74	784.56	784.17	784.25	791.44	793.84	792.12	791.94	794.58	791.48	790.69	789.28
19	784.72	784.55	784.16	784.25	791.42	793.84	792.08	791.89	794.40	791.41	790.66	789.33
20	784.71	784.52	784.13	784.23	791.42	793.84	792.01	791.85	794.24	791.41	790.61	789.27
21	784.69	784.51	784.11	784.22	791.43	793.84	792.25	791.89	794.22	791.36	790.57	789.24
22	784.69	784.47	784.09	784.20	791.42	793.66	792.76	791.81	794.12	791.32	790.52	789.20
23	784.66	784.46	784.08	784.20	791.41	793.57	792.77	791.74	793.99	791.25	790.48	789.25
24	784.66	784.43	784.07	784.21	791.47	793.49	792.80	791.69	793.81	791.20	790.50	789.22
25	784.66	784.43	784.06	784.21	792.70	793.38	792.73	791.66	793.66	791.23	790.49	789.16
26	784.66	784.42	784.06	784.19	793.51	793.23	792.67	791.63	793.54	791.61	790.40	789.13
27	784.65	784.40	784.02	784.19	793.50	793.11	792.59	791.61	793.41	791.68	790.36	789.09
28	784.65	784.39	784.01	784.24	793.41	793.04	792.53	791.58	793.26	791.63	790.31	789.08
29	784.61	784.36	783.98	784.31	---	792.98	792.46	791.55	793.07	791.60	790.24	789.05
30	784.56	784.35	783.97	785.26	---	792.92	792.39	791.53	792.96	791.55	790.15	789.03
31	784.55	---	783.95	786.49	---	792.88	---	791.62	---	791.49	790.20	---
MEAN	784.74	784.51	784.15	784.16	790.20	793.09	792.44	791.92	794.18	791.83	790.82	789.49
MAX	784.90	784.62	784.33	786.49	793.51	793.84	792.85	792.33	796.14	792.85	791.43	790.13
MIN	784.55	784.35	783.95	783.70	786.76	792.38	792.01	791.53	792.01	791.20	790.15	789.03
(-)	20800	20400	19700	24400	40400	39000	37700	35700	39200	35400	32300	29700
(=)	-600	-400	-700	+4700	+16000	-1400	-1300	-2000	+3500	-3800	-3100	-2600

CAL YR 2000....-5100
WTR YR 2001....+8300

(-) Contents, in acre-feet, at the end of the month.
(=) Change in contents, in acre-feet.

06906200 EAST FORK LITTLE CHARITON RIVER NEAR MACON, MO

LOCATION.--Lat 39°44'59", long 92°31'03", in NW $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec.18, T.57 N., R.14 W., Macon County, Hydrologic Unit 10280203, on right bank 250 ft downstream from Long Branch Lake, and 3.0 mi west of Macon.

DRAINAGE AREA.--112 mi^2.

PERIOD OF RECORD.--September 1971 to current year. Partial-record station May 1970 to August 1971.

GAGE.--Water-stage recorder. Datum of gage is 741.43 ft above sea level. Sept. 8, 1971, to Aug. 1, 1985, water- stage recorder at site 400 ft downstream at same datum.

REMARKS.--Records poor. Complete regulation by Long Branch Reservoir (station 06906190), 250 ft upstream. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,700 ft^3/s, Apr. 21, 1973; gage height, 20.60 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	9.5	7.9	9.5	9.7	177	123	80	44	130	46	40
2	9.7	9.4	7.8	9.6	9.8	168	117	75	51	141	45	40
3	9.7	9.5	7.8	9.6	9.8	160	115	73	55	147	44	40
4	9.7	9.5	7.8	9.7	9.5	155	111	72	133	145	45	40
5	9.8	9.4	8.0	9.5	9.6	149	106	65	198	135	45	40
6	9.8	9.4	8.0	9.2	9.5	142	102	60	273	122	44	40
7	9.8	9.3	8.0	9.2	9.5	136	97	62	316	111	43	41
8	9.9	9.5	7.9	9.3	14	130	94	52	324	103	42	41
9	9.8	9.7	8.1	9.3	15	123	90	45	315	93	41	41
10	9.9	8.8	8.1	9.3	10	118	87	39	309	82	41	41
11	9.9	8.6	8.1	9.3	12	112	84	40	301	71	41	41
12	9.8	8.6	8.0	9.5	13	108	84	36	294	66	41	41
13	9.8	8.6	8.2	9.6	14	104	82	37	286	60	41	40
14	9.8	8.6	8.5	9.6	15	99	77	38	278	56	41	41
15	9.7	8.4	8.7	9.5	16	107	76	35	276	52	15	40
16	9.7	8.4	8.8	9.5	17	172	71	33	273	49	25	40
17	9.7	8.5	8.8	9.5	17	222	62	32	266	47	40	40
18	9.8	8.4	8.8	9.6	17	228	51	37	258	46	41	40
19	9.8	8.3	8.9	9.5	17	229	42	30	249	45	41	41
20	9.7	8.2	8.9	9.5	17	224	37	28	241	45	41	40
21	9.6	8.2	9.0	9.6	16	217	97	28	242	44	41	40
22	9.8	8.2	9.1	9.6	16	210	125	25	234	43	40	40
23	10	8.2	9.1	9.6	16	201	128	24	226	42	40	41
24	10	8.2	9.1	9.6	60	191	123	22	216	41	41	40
25	9.8	8.0	9.1	9.6	156	177	117	21	206	43	41	22
26	9.6	8.0	9.3	9.5	203	165	111	21	195	52	40	14
27	9.6	8.0	9.3	9.4	198	154	105	20	182	53	40	14
28	9.8	8.1	9.3	9.4	188	145	100	19	168	51	40	14
29	9.9	8.1	9.3	18	---	140	92	18	155	51	40	14
30	9.8	8.0	9.5	9.6	---	134	86	19	142	49	40	14
31	9.8	---	9.5	9.7	---	129	---	26	---	47	40	---
MEAN	9.78	8.65	8.60	9.77	39.8	159	93.1	39.1	224	73.0	40.2	35.4
MAX	10	9.7	9.5	18	203	229	128	80	324	147	46	41
MIN	9.6	8.0	7.8	9.2	9.5	99	37	18	44	41	15	14
IN.	.10	.09	.09	.10	.37	1.64	.93	.40	2.23	.75	.41	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2001[a], BY WATER YEAR (WY)

MEAN	58.9	67.0	80.6	48.9	59.7	117	135	175	130	125	69.1	51.8
MAX	406	354	304	223	200	502	475	680	369	743	401	341
(WY)	1987	1986	1993	1993	1999	1985	1983	1995	1995	1993	1981	1981
MIN	.16	.27	.000	.000	.000	7.30	7.27	7.21	5.45	5.52	2.48	7.06
(WY)	1979	1979	1979	1979	1979	1989	1989	1988	1988	1989	1980	1984

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1979 - 2001[a]	
ANNUAL MEAN	9.28		61.5		93.2	
HIGHEST ANNUAL MEAN					242	1993
LOWEST ANNUAL MEAN					7.13	1989
HIGHEST DAILY MEAN	11	Jun 26	324	Jun 8	1380	May 18 1995
LOWEST DAILY MEAN	7.8	Dec 2-4	7.8	Dec 2-4	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	7.9	Nov 30	7.9	Nov 30	.00	Many Years
MAXIMUM PEAK FLOW	---		333	Jun 7	1560	May 7 1996
MAXIMUM PEAK STAGE	---		10.42	Jun 7	14.78	May 7 1996
INSTANTANEOUS LOW FLOW	---		.00	Aug 15	.00	Many Years
ANNUAL RUNOFF (INCHES)	1.13		7.46		11.31	
10 PERCENT EXCEEDS	9.8		174		284	
50 PERCENT EXCEEDS	9.5		40		46	
90 PERCENT EXCEEDS	8.2		8.8		6.7	

[a] Post-regulation period.

06906300 EAST FORK LITTLE CHARITON RIVER NEAR HUNTSVILLE, MO

LOCATION.--Lat 39°27'18", long 92°34'07", in NW $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec.26, T.54 N., R.15 W., Randolph County, Hydrologic Unit 10280203, on right bank downstream end of bridge on State Highway C, 1.0 mi downstream from Sugar Creek, and 1.5 mi northwest of Huntsville.

DRAINAGE AREA.--220 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1962 to current year. Occasional low-flow measurements, water years 1942-43, 1945-46.

GAGE.--Water-stage recorder. Datum of gage is 655.86 ft above sea level (levels by the Missouri State Highway and Transportation Commission). From July 18, 1972 to Sept. 23, 1974, at datum 0.63 ft higher.

REMARKS.--Water-discharge records fair except for the period Jan. 29 to March 8 and estimated daily discharges, which are poor. Some regulation by Long Branch Reservoir (station 06906190), 34 mi upstream since 1978. Low flow affected by operation of pumps 7 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft^3/s, Apr. 21, 1973; gage height, 20.78 ft, former datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	20	13	e8.5	e197	251	120	74	277	125	62	50
2	11	22	13	e8.9	e125	233	110	67	392	115	59	48
3	11	18	e12	e9.3	e86	241	117	75	173	140	57	47
4	11	17	12	e9.6	71	218	152	364	2260	199	55	46
5	29	14	e13	e10	67	190	120	135	1190	145	56	46
6	37	e52	e11	e9.8	94	172	111	121	3000	128	57	46
7	18	e68	e12	e10	82	e161	101	151	1760	117	55	46
8	13	e35	12	e11	633	e148	88	107	536	106	54	48
9	13	e50	9.8	e11	2850	137	86	86	422	100	53	70
10	13	e75	12	e11	620	127	235	75	372	94	51	55
11	13	e45	9.5	e12	233	120	501	89	343	86	47	49
12	13	e30	9.4	e15	144	120	286	79	322	91	46	e47
13	15	25	e9.0	e14	111	113	150	75	304	85	47	e47
14	15	21	e8.0	e16	121	105	113	222	293	76	47	46
15	50	e19	e6.8	e15	105	312	201	104	317	71	48	46
16	34	17	e7.0	e15	76	1010	133	74	292	67	30	46
17	31	e16	e8.6	e15	e62	541	96	109	276	64	27	62
18	32	e14	e9.0	e16	e55	409	81	449	262	60	47	90
19	26	15	e9.1	e17	e50	324	75	160	249	58	47	100
20	22	e14	e9.2	e16	44	279	66	91	254	61	47	58
21	20	e12	e8.8	e19	e38	252	435	149	560	59	46	56
22	19	e14	e8.4	e18	e35	245	444	86	314	55	46	51
23	20	e14	e8.5	16	34	233	216	61	257	53	48	53
24	22	14	e8.6	e16	1240	212	163	49	229	51	80	53
25	23	15	e8.4	e16	1610	189	138	49	211	93	63	50
26	21	15	e8.7	16	421	172	121	57	196	72	54	30
27	20	14	e8.8	17	323	158	109	43	179	76	49	14
28	19	14	e8.2	20	271	149	99	36	163	102	47	14
29	16	13	e8.5	e580	---	146	89	32	149	80	47	13
30	16	13	e8.8	e2100	---	135	81	39	136	72	51	17
31	17	---	e8.5	e770	---	128	---	508	---	66	73	---
MEAN	20.4	24.2	9.66	124	350	233	161	123	523	89.3	51.5	48.1
MAX	50	75	13	2100	2850	1010	501	508	3000	199	80	100
MIN	11	12	6.8	8.5	34	105	66	32	136	51	27	13
IN.	.11	.12	.05	.65	1.66	1.22	.82	.65	2.65	.47	.27	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2001[a], BY WATER YEAR (WY)

MEAN	107	134	145	101	178	236	256	318	226	234	108	110
MAX	1019	756	666	362	732	945	935	1201	562	1569	514	774
(WY)	1987	1986	1983	1993	1985	1985	1983	1995	1995	1993	1993	1993
MIN	6.44	2.66	4.95	6.48	7.59	10.6	10.2	12.1	2.56	5.34	3.64	2.70
(WY)	1981	1981	1989	1989	1989	1989	1989	1988	1988	1989	1980	1988

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1979 - 2001[a]	
ANNUAL MEAN	28.8		144		179	
HIGHEST ANNUAL MEAN					468	1993
LOWEST ANNUAL MEAN					17.3	1989
HIGHEST DAILY MEAN	2250	Aug 24	3000	Jun 6	7760	Oct 3 1986
LOWEST DAILY MEAN	6.6	Jun 3,8	6.8	Dec 15	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	6.8	Jun 3	8.2	Dec 13	.40	Oct 9 1980
MAXIMUM PEAK FLOW	---		3780	Jun 6	10400	Jun 27 1981
MAXIMUM PEAK STAGE	---		15.33	Jun 6	19.30	Sep 2 1982
INSTANTANEOUS LOW FLOW	---		7.5[b]	Dec 11	.00	Many Years
ANNUAL RUNOFF (INCHES)	1.79		8.91		11.07	
10 PERCENT EXCEEDS	35		292		390	
50 PERCENT EXCEEDS	14		57		63	
90 PERCENT EXCEEDS	8.7		11		8.6	

e Estimated
[a] Post-regulation period.
[b] Minimum recorded, may have been less during period of ice effect, Dec. 13 to Jan. 4.

06906300 EAST FORK LITTLE CHARITON RIVER NEAR HUNTSVILLE, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
20...	1250	ENVIRONMENTAL	14	15.2	108	7.6	510	1.4	413	103	37.8	4.50
JAN												
02...	1355	ENVIRONMENTAL	e8.9	11.7	79.2	7.2	347	.2	--	--	--	--
MAR												
05...	1255	ENVIRONMENTAL	186	13.8	104	7.4	434	3.6	--	--	--	--
MAY												
01...	1515	ENVIRONMENTAL	74	11.3	128	7.9	488	21.6	203	50.6	18.6	4.43
JUL												
09...	1310	ENVIRONMENTAL	100	6.4	85.0	7.8	351	28.5	--	--	--	--
SEP												
04...	1545	ENVIRONMENTAL	29	8.4	109	7.6	350	26.7	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
20...	37.9	117	113	138	0	8.6	.3	344	11	656	.047	.39	.163
JAN													
02...	--	178	178	217	0	--	--	--	--	--	.172	.69	.233
MAR													
05...	--	71	72	88	0	--	--	--	--	--	E.025	.83	.346
MAY													
01...	17.1	71	70	85	0	6.1	.2	150	59	332	E.028	.71	.393
JUL													
09...	--	69	68	81	0	--	--	--	--	--	<.040	.79	.416
SEP													
04...	--	76	75	91	0	--	--	--	--	--	<.040	.64	E.028

06906300 EAST FORK LITTLE CHARITON RIVER NEAR HUNTSVILLE, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITROGEN, NITRITE DISSOLVED (mg/L as N) (00613)	PHOSPHORUS DISSOLVED (mg/L as P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) (00671)	PHOSPHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEMICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	ARSENIC DISSOLVED (µg/L as As) (01000)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
20...	E.004	<.060	<.018	E.031	17	K3	56	K110	44	241	.6	<8.00	E.06
JAN													
02...	.010	<.060	<.018	<.060	--	K140	53	K160	--	--	--	--	--
MAR													
05...	E.004	<.060	<.018	.105	--	K2	40	58	--	--	--	--	--
MAY													
01...	.014	E.042	E.014	.111	23	54	160	89	168	886	.8	<8.00	E.06
JUL													
09...	.006	E.031	<.020	.092	--	200	270	96	--	--	--	--	--
SEP													
04...	E.005	<.060	<.090	.080	--	110	120	40	--	--	--	--	--

DATE	COPPER, DISSOLVED (µg/L as Cu) (01040)	IRON, DISSOLVED (µg/L as Fe) (01046)	LEAD, DISSOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOVERABLE (µg/L as Pb) (01051)	MANGANESE, DISSOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOVERABLE (µg/L as Hg) (71900)	ZINC, DISSOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOVERABLE (µg/L as Zn) (01092)
NOV								
20...	<4.7	80	E.06	<1	728	<.14	12	7
JAN								
02...	--	--	--	--	--	--	--	--
MAR								
05...	--	--	--	--	--	--	--	--
MAY								
01...	<4.7	300	.30	2	224	<.01	--	12
JUL								
09...	--	--	--	--	--	--	--	--
SEP								
04...	--	--	--	--	--	--	--	--

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

06906500 MISSOURI RIVER AT GLASGOW, MO

LOCATION.--Lat 39°13'20", long 92°51'00", in NE $^1/_4$ NE $^1/_4$ NE $^1/_4$ sec.3, T.51 N., R.17 W., Howard County, Hydrologic Unit 10300102, at bridge on State Highway 240 in Glasgow, 75 ft downstream from Chicago and Alton Railway bridge, 1 mi downstream from Little Chariton River, and at mile 226.8.

DRAINAGE AREA.--502,875 mi^2. (provided by Corps of Engineers)

PERIOD OF RECORD.--October 2000 to current year. Gage-height records collected at site 1878-99 in reports of the Missouri River Commission. Gage-height records collected from January 1929 to August 1950 in files of the Corps of Engineers, Kansas City District. August 1950 to September 2000 gage-height records collected in files of the U.S.G.S.

GAGE.--Water-stage recorder. Datum of gage 586.49 ft above sea level.

REMARKS.--Records fair except for discharges below 30,000 ft^3/s and above 100,000 ft^3/s and estimated daily discharges, which are poor. Some regulation from many upstream reservoirs. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 29, 1993 reached a stage of 39.50 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43300	43800	38000	23900	55100	105000	75700	90400	124000	85600	72600	52100
2	42300	43900	37300	24100	43600	88600	73100	89300	143000	82100	64100	49100
3	41800	45200	36000	24300	34800	77400	71400	87700	142000	82000	59700	46900
4	41900	48000	34200	24200	30500	70100	75800	90200	148000	83700	55200	47000
5	42400	47700	32200	24300	29500	69000	82700	103000	193000	91100	e51500	45400
6	43600	45900	30600	24000	29700	65600	79000	113000	232000	87300	e47000	43500
7	45900	46000	30000	24200	30200	60200	82100	140000	258000	80400	e46000	42400
8	44700	52600	29600	24800	32300	58500	80600	162000	261000	73100	e45000	42700
9	43900	57100	28400	25000	62900	59900	75400	143000	227000	66100	e44700	42700
10	43300	55900	27000	25200	96800	58600	76600	124000	182000	61900	e44300	42800
11	43100	51500	26500	25400	94700	55600	93100	116000	150000	58900	e44100	44300
12	43000	48500	25700	25500	77800	55500	107000	130000	122000	58200	e43900	47200
13	42800	46300	25000	25700	58400	59800	110000	140000	108000	75000	43800	45100
14	42200	44400	25200	e27000	47300	89400	116000	127000	102000	87500	43600	43000
15	42000	43300	25700	e31000	46500	109000	113000	123000	110000	79100	43500	42400
16	47900	42900	24500	e35000	48500	158000	117000	119000	143000	66400	43700	42400
17	48900	42100	21900	e37000	44400	178000	111000	111000	161000	60200	43400	43500
18	44500	42100	20700	e35000	39200	173000	105000	117000	143000	58100	43000	65600
19	43200	41800	19200	33100	35900	149000	103000	126000	120000	56800	43400	93100
20	43100	41300	18400	30900	34800	126000	101000	107000	115000	55800	44600	98800
21	42900	41400	18900	29700	34200	113000	100000	95000	180000	72900	44100	82400
22	42600	41300	20300	29200	35300	106000	113000	91600	220000	83900	44000	71300
23	42600	41300	21600	28400	35500	110000	113000	93700	216000	65500	43800	65300
24	43800	42000	21200	27300	40000	123000	104000	95300	177000	58800	45300	62700
25	47100	42100	20000	26200	92900	126000	91700	87700	154000	58600	49700	68300
26	46200	42100	19600	25500	157000	117000	82900	81100	128000	72800	59800	71000
27	44500	42500	20300	24600	155000	104000	79600	78200	109000	78400	67600	62700
28	44300	42100	21200	24600	129000	93200	82600	76800	100000	68000	58900	58100
29	44200	41300	22100	30400	---	86300	86600	74600	95700	71200	53100	56000
30	43500	39300	22900	46200	---	82200	89200	72200	91300	85700	51500	54700
31	43000	---	23400	59200	---	78900	---	82100	---	88200	50600	---
MEAN	43820	44860	25410	29060	58990	96960	93040	106000	155200	72690	49530	55750
MAX	48900	57100	38000	59200	157000	178000	117000	162000	261000	91100	72600	98800
MIN	41800	39300	18400	23900	29500	55500	71400	72200	91300	55800	43000	42400

SUMMARY STATISTICS	FOR 2001 WATER YEAR	
ANNUAL MEAN	69160	
HIGHEST DAILY MEAN	261000	Jun 8
LOWEST DAILY MEAN	18400	Dec 20
ANNUAL SEVEN-DAY MINIMUM	19900	Dec 19
MAXIMUM PEAK FLOW	272000	Jun 7,8
MAXIMUM PEAK STAGE	31.66	Jun 7,8
INSTANTANEOUS LOW FLOW	18300	Dec 20
10 PERCENT EXCEEDS	124000	
50 PERCENT EXCEEDS	55500	
90 PERCENT EXCEEDS	26000	

e Estimated

06906800 LAMINE RIVER NEAR OTTERVILLE, MO

LOCATION.--Lat 38°42'09", long 92°58'42", in NE $^1/_4$ NE $^1/_4$ NW $^1/_4$ sec.2, T.45 N., R.19 W., Cooper County, Hydrologic Unit 10300103, on left bank at the left downstream end of Highway A, 7.2 mi downstream from confluence of Flat Creek and Richland Creek, 2.2 mi upstream from Otter Creek, and 1.1 mi east of Otterville.

DRAINAGE AREA.--543 mi^2.

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 652.87 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S.G.S satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	17	15	e8.5	645	623	117	63	519	35	32	111
2	6.6	18	14	e8.5	e445	776	108	55	1120	77	25	66
3	6.4	18	14	e8.0	e320	673	6560	51	1380	283	22	30
4	6.3	18	14	e8.0	238	453	19100	64	11700	2570	19	21
5	39	17	14	e9.0	195	e340	4390	56	11300	1400	17	16
6	224	21	14	e10	163	e270	1260	79	13200	285	16	14
7	85	74	14	e10	137	232	763	77	18500	137	24	13
8	31	66	13	e13	213	207	502	80	1390	80	20	13
9	18	79	13	e15	10100	182	379	61	640	55	17	20
10	14	182	14	e19	3300	161	416	47	412	44	15	26
11	12	237	e13	e25	825	147	2550	62	306	40	14	20
12	9.7	120	e13	e26	525	143	2320	431	232	1540	13	16
13	8.5	74	e11	e35	594	138	783	189	168	2050	13	14
14	9.6	52	e9.0	e40	1420	126	469	92	128	362	12	13
15	601	41	e9.0	e90	1620	173	2770	57	525	178	11	12
16	502	33	e9.5	e130	e760	3920	1290	44	412	106	11	11
17	303	28	e9.5	e100	e460	2010	596	38	223	77	11	12
18	e270	25	e9.5	e80	e350	857	406	45	130	58	11	23
19	e125	23	e11	e50	296	532	329	1490	91	42	10	44
20	e50	21	e11	e40	269	403	283	395	89	37	9.9	43
21	e30	20	e9.5	e30	228	326	249	823	480	32	9.5	82
22	e45	18	e9.5	e27	196	280	235	628	388	28	9.3	37
23	e50	18	e10	e25	183	285	e210	234	254	25	9.1	25
24	e130	17	e10	e23	9440	259	e185	125	145	23	9.9	20
25	e70	18	e10	e21	13300	213	e160	85	90	100	12	17
26	59	18	e9.5	e21	1530	181	133	71	66	246	13	15
27	40	18	e10	e20	836	158	115	58	54	230	15	14
28	31	16	e10	e28	739	152	99	47	46	83	14	13
29	24	16	e9.0	6620	---	151	86	40	43	52	15	12
30	20	15	e9.0	4660	---	143	74	46	39	58	66	11
31	18	---	e9.0	e1280	---	128	---	906	---	46	81	---
MEAN	91.8	44.6	11.3	435	1762	472	1565	211	2136	335	18.6	26.1
MAX	601	237	15	6620	13300	3920	19100	1490	18500	2570	81	111
MIN	6.3	15	9.0	8.0	137	126	74	38	39	23	9.1	11
IN.	.19	.09	.02	.92	3.38	1.00	3.22	.45	4.39	.71	.04	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

MEAN	203	560	335	336	667	605	951	1307	712	702	160	314
MAX	2130	3347	1564	956	2422	2174	3809	4718	3176	4077	850	3689
(WY)	1999	1993	1993	1999	1997	1998	1994	1990	1998	1993	1995	1993
MIN	7.73	7.43	11.1	16.1	35.0	46.4	22.2	38.8	10.5	11.0	3.40	4.03
(WY)	1993	2000	1990	2000	1996	1996	2000	1992	1988	1988	1991	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1987 - 2001	
ANNUAL MEAN	194		579		570	
HIGHEST ANNUAL MEAN					1464	1993
LOWEST ANNUAL MEAN					155	1992
HIGHEST DAILY MEAN	10000	May 27	19100	Apr 4	47000	May 18 1995
LOWEST DAILY MEAN	5.1	Sep 5	6.3	Oct 4	1.3	Aug 26 1991
ANNUAL SEVEN-DAY MINIMUM	5.5	Sep 3	8.6	Dec 29	1.4	Aug 23 1991
MAXIMUM PEAK FLOW	---		23200	Jun 6	84900	May 18 1995
MAXIMUM PEAK STAGE	---		21.65	Jun 6	29.43	May 18 1995
INSTANTANEOUS LOW FLOW	---		6.1[a]	Oct 4	1.2	Aug 28 1991
ANNUAL RUNOFF (INCHES)	4.88		14.47		14.26	
10 PERCENT EXCEEDS	323		824		800	
50 PERCENT EXCEEDS	19		58		78	
90 PERCENT EXCEEDS	8.8		11		9.2	

e Estimated
[a] Minimum recorded, may have been less during periods of ice effect, Dec. 15 to Jan. 5.

06907300 LAMINE RIVER NEAR PILOT GROVE, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.-- Lat 38°53'32", long 93°02'00", in SE $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec.32, T.48 N., R.19 W., Cooper County, Hydrologic Unit 10300102. Approximately 2 mi southeast of County Highway Z on Shackleford Road.

DRAINAGE AREA.--949 mi^2.

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DISSOLVED (mg/L) (00300)	OXYGEN, DISSOLVED (percent saturation) (00301)	pH WATER WHOLE FIELD (standard units) (00400)	SPECIFIC CONDUCTANCE (µS/cm) (00095)	TEMPERATURE WATER (Deg C) (00010)	HARDNESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DISSOLVED (mg/L as Ca) (00915)	MAGNESIUM, DISSOLVED (mg/L as Mg) (00925)	POTASSIUM, DISSOLVED (mg/L as K) (00935)
NOV												
21...	1250	ENVIRONMENTAL	68	11.7	85	7.6	241	2.1	170	43.4	15.9	5.98
JAN												
03...	1345	ENVIRONMENTAL	38	13.5	93	7.8	317	.2	--	--	--	--
FEB												
13...	1300	ENVIRONMENTAL	689	12.4	92	7.3	262	3.3	--	--	--	--
13...	1301	REPLICATE	--	--	--	--	--	--	--	--	--	--
MAR												
06...	1520	ENVIRONMENTAL	909	10.9	92	7.1	324	8.3	--	--	--	--
APR												
17...	1015	ENVIRONMENTAL	1550	10.6	98	7.3	223	12.6	--	--	--	--
MAY												
02...	0915	ENVIRONMENTAL	144	10.7	124	8.4	387	22.3	180	45.0	15.8	3.69
JUN												
18...	1300	ENVIRONMENTAL	370	5.8	73	7.5	268	25.6	--	--	--	--
JUL												
11...	0900	ENVIRONMENTAL	117	5.5	74	7.4	226	29.3	94	24.5	7.86	4.70
SEP												
05...	1230	ENVIRONMENTAL	51	6.0	78	7.9	371	27.2	--	--	--	--

DATE	SODIUM, DISSOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICARBONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CARBONATE IT FIELD (mg/L as CO_3) (00447)	CHLORIDE, DISSOLVED (mg/L as Cl) (00940)	FLUORIDE, DISSOLVED (mg/L as F) (00950)	SULFATE DISSOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	NITROGEN, AMMONIA DISSOLVED (mg/L as N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITROGEN, NO_2+NO_3 DISSOLVED (mg/L as N) (00631)
NOV													
21...	11.8	144	145	177	0	13.8	.2	20.5	14	227	<.041	.55	.816
JAN													
03...	--	385	386	470	0	--	--	--	--	--	--	--	--
FEB													
13...	--	90	90	110	--	--	--	--	--	--	<.041	1.1	1.96
13...	--	--	--	--	--	--	--	--	--	--	<.041	1.2	2.08
MAR													
06...	--	104	107	130	0	--	--	--	--	--	.060	.74	2.12
APR													
17...	--	80	84	99	0	--	--	--	--	--	.069	1.6	.841
MAY													
02...	10.6	155	156	184	3	12.3	E.1	21.9	31	226	<.041	.96	<.047
JUN													
18...	--	95	95	116	0	--	--	--	--	--	E.034	.72	.874
JUL													
11...	5.1	84	85	103	0	6.5	.2	9.0	71	144	<.040	.90	.852
SEP													
05...	--	146	146	178	0	--	--	--	--	--	<.040	.82	.643

06907300 LAMINE RIVER NEAR PILOT GROVE, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
21...	.010	.182	.161	.285	19	28	32	K24	120	187	1.3	<8.00	<.11
JAN													
03...	--	--	--	--	--	K7	K15	K5	--	--	--	--	--
FEB													
13...	.032	.190	.126	.331	--	390	510	K2100	--	--	--	--	--
13...	.025	.192	.141	.358	--	--	--	--	--	--	--	--	--
MAR													
06...	.012	.098	.092	.254	--	K13	53	140	--	--	--	--	--
APR													
17...	.040	.212	.167	.441	--	2500	2200	2200	--	--	--	--	--
MAY													
02...	E.003	E.056	.045	.178	28	37	34	50	18	177	1.4	<8.00	<.11
JUN													
18...	.021	.106	.111	.288	--	220	270	180	--	--	--	--	--
JUL													
11...	.017	.195	.149	.293	19	220	190	96	396	1120	2.0	<8.00	<.10
SEP													
05...	.016	.324	.298	.452	--	470	500	130	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV								
21...	E2.9	370	.23	M	154	<.14	--	4
JAN								
03...	--	--	--	--	--	--	--	--
FEB								
13...	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--
MAR								
06...	--	--	--	--	--	--	--	--
APR								
17...	--	--	--	--	--	--	--	--
MAY								
02...	<4.7	90	E.07	M	9.8	<.01	11	4
JUN								
18...	--	--	--	--	--	--	--	--
JUL								
11...	E2.8	420	.63	2	139	.40	--	14
SEP								
05...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

06908000 BLACKWATER RIVER NEAR BLUE LICK, MO

LOCATION.--Lat 38°59'32", long 93°11'48", in SW $^1/_4$ SW $^1/_4$ SW $^1/_4$ sec.26, T.49 N., R.21 W., Saline County, Hydrologic Unit 10300104, on left bank at upstream side of bridge on northbound lane of U.S. Highway 65, 1.2 mi downstream from Finney Creek, 1.8 mi southeast of Blue Lick, and at mile 30.3.

DRAINAGE AREA.--1,120 mi^2.

PERIOD OF RECORD.--June 1922 to September 1933, May 1938 to current year.

REVISED RECORDS.--WSP 1006: 1929. WDR MO-83-1: 1982.

GAGE.--Water-stage recorder. Datum of gage is 593.79 ft above sea level. Prior to July 25, 1925, nonrecording gage at site 75 ft downstream at datum 0.10 ft lower; July 25 to Sept. 30, 1933, and May 23, 1938 to Dec. 3, 1956, nonrecording gage at site 25 ft downstream at same datum. Dec. 4, 1956, to Oct. 1, 1986, at site 0.5 mi upstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station. Published as "Blackwater River at Blue Lick" for periods of record from 1922 to 2000.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	26	18	e9.5	2260	4310	165	126	1950	103	294	101
2	11	23	17	e9.5	572	1450	149	120	2010	199	199	82
3	9.3	21	17	e10	351	1480	394	112	3720	637	146	51
4	8.6	19	16	e10	261	1120	4560	387	8260	2770	121	36
5	19	18	16	e10	185	729	5780	1030	9280	2400	105	28
6	25	20	15	e11	158	482	7690	387	14900	556	91	21
7	69	58	15	e11	145	374	9400	543	18800	252	78	18
8	62	113	15	e14	284	324	7160	712	19300	176	68	18
9	39	288	17	17	4490	282	1220	317	18300	146	58	78
10	25	670	17	20	6310	240	3000	173	15200	129	49	77
11	17	437	17	27	6020	221	8790	3410	11800	132	41	42
12	13	194	16	32	3580	219	9380	5420	7890	3520	39	25
13	11	132	e14	44	1010	246	10500	4010	1570	5780	37	19
14	33	111	e12	162	789	254	9810	1090	907	5800	29	16
15	1780	97	e13	352	1030	230	7810	441	3730	3810	26	14
16	1170	76	e12	241	691	2070	5750	297	2290	934	25	12
17	311	61	e12	136	374	4820	4180	463	881	413	23	15
18	173	50	e13	85	241	3150	1550	4970	572	281	25	140
19	115	42	e14	62	232	1020	755	5990	426	218	21	759
20	81	36	e14	49	226	612	556	5560	1310	239	21	580
21	60	32	e13	38	199	457	452	6140	5950	172	20	181
22	48	28	e13	30	159	372	387	6010	7450	140	20	107
23	150	25	e12	25	146	333	335	5930	9520	125	22	77
24	744	25	e12	23	2980	325	313	2840	10300	114	43	59
25	166	26	e11	22	7620	267	281	806	7810	1800	148	52
26	97	25	e10	21	8040	211	233	483	1750	4490	161	51
27	69	24	e10	20	9340	181	206	354	554	2910	156	50
28	54	22	e11	23	9190	171	172	284	281	1600	84	45
29	41	19	e10	2930	---	192	153	335	197	3170	53	39
30	33	18	e11	5420	---	206	137	541	151	2210	126	34
31	28	---	e11	4750	---	186	---	3720	---	585	166	---
MEAN	177	91.2	13.7	471	2389	856	3376	2032	6235	1478	80.5	94.2
MAX	1780	670	18	5420	9340	4820	10500	6140	19300	5800	294	759
MIN	8.6	18	10	9.5	145	171	137	112	151	103	20	12
IN.	.18	.09	.01	.49	2.22	.88	3.36	2.09	6.21	1.52	.08	.09

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	568	615	464	468	768	1051	1464	1254	1299	845	301	622
MAX	9500	6100	3359	2326	5206	4706	8473	8090	6235	8855	1835	5979
(WY)	1987	1929	1983	1974	1985	1973	1973	1995	2001	1951	1998	1961
MIN	.13	.32	1.66	1.55	5.54	9.50	29.6	9.93	18.4	1.78	1.61	.13
(WY)	1957	1957	1957	1957	1954	1956	1977	1932	1956	1933	1930	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	373		1422		812	
HIGHEST ANNUAL MEAN					2540	1993
LOWEST ANNUAL MEAN					95.8	1957
HIGHEST DAILY MEAN	10700	Jun 24	19300	Jun 8	48400	Nov 18 1928
LOWEST DAILY MEAN	6.8	Sep 11	8.6	Oct 4	.00	Jul 17-31 1980
ANNUAL SEVEN-DAY MINIMUM	8.0	Sep 6	10	Dec 29	.00	Jul 17 1980
MAXIMUM PEAK FLOW	---		19400	Jun 8	54000	Nov 18 1928
MAXIMUM PEAK STAGE	---		34.84	Jun 8	41.53	Oct 3 1986
INSTANTANEOUS LOW FLOW	---		8.3[a]	Oct 4,14	.00	Jul 17-31 1980
ANNUAL RUNOFF (INCHES)	4.53		17.24		9.85	
10 PERCENT EXCEEDS	726		5640		2430	
50 PERCENT EXCEEDS	39		166		91	
90 PERCENT EXCEEDS	12		15		4.8	

e Estimated
[a] Minimum recorded, may have been less during period of ice effect, Dec. 13 to Jan. 8.

06909000 MISSOURI RIVER AT BOONVILLE, MO

LOCATION.--Lat 38°58'42", long 92°45'13", sec.35, T.49 N., R.17 W., Cooper County, Hydrologic Unit 10300102, on downstream side of second pier from right abutment of Missouri-Kansas-Texas Railroad Company Bridge at Boonville and at mile 196.6.

DRAINAGE AREA.--501,700 mi^2, approximately.

PERIOD OF RECORD.--October 1925 to current year. Gage-height records collected at same site 1893-99 are contained in reports of the Missouri River Commission; since 1900 in reports of the National Weather Service.

REVISED RECORDS.--WDR MO-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 565.42 ft above sea level. Prior to Oct. 1, 1928, nonrecording gage at site 0.4 mi downstream at datum 3.14 ft lower; Oct. 1, 1928, to May 9, 1931, nonrecording gage at site 50 ft upstream from present site at present datum; May 10, 1931, to Apr. 12, 1934, water-stage recorder at site 0.4 mi downstream at different datum.

REMARKS.--Records good except for period May and June and estimated daily discharges, which are fair. Some regulation from many upstream reservoirs. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 21, 1844, reached a stage of 32.7 ft, discharge, about 710,000 ft^3/s, computed by the U.S. Army Corps of Engineers. Flood of June 6, 1903, reached a stage of 30.5 ft, discharge, about 612,000 ft^3/s, computed by the U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43500	43600	41100	e27300	60200	129000	76400	90600	120000	87400	78900	52200
2	42400	44200	40000	e27300	48300	106000	73200	90100	143000	81800	67100	51400
3	41700	44800	38700	e27100	38900	93500	71700	87700	146000	79800	61700	48100
4	41700	47500	36900	e27000	33500	82600	82300	87900	160000	84600	57200	47800
5	42400	48700	34900	e26600	31600	78500	103000	99600	205000	93500	52700	47000
6	42700	47400	33200	e26300	31500	75500	96300	110000	245000	88700	50100	45100
7	45100	46400	32000	26300	31700	69700	87200	135000	277000	79700	47900	43600
8	45100	51000	31400	26400	33200	65900	87700	168000	294000	73500	46400	43500
9	44000	57200	30700	26800	60000	66100	79200	153000	275000	67900	45700	43800
10	43400	58000	29500	26800	108000	65200	79100	132000	229000	64000	44800	43700
11	43100	54600	28500	26800	105000	62300	110000	123000	183000	61600	44600	44300
12	42900	51200	27900	26900	82900	60400	122000	135000	143000	63500	44700	47000
13	42800	48800	27200	27000	62400	62100	120000	147000	115000	79400	44300	47100
14	42800	46900	27200	27700	49900	81500	125000	134000	101000	96900	44300	44600
15	45000	45600	27500	29700	47100	111000	126000	126000	107000	89400	44600	43600
16	48400	44700	27100	34300	49200	158000	129000	122000	136000	73800	44500	43400
17	51000	43900	25300	38700	46100	194000	120000	114000	162000	64600	44500	43800
18	46300	43600	24000	36200	41200	190000	109000	120000	149000	61200	44100	54900
19	44000	43400	23000	33700	37500	166000	104000	143000	124000	59500	43900	92100
20	43700	43100	22000	31900	36100	136000	102000	126000	112000	58200	45000	108000
21	43500	43300	21700	30500	35500	118000	98700	110000	172000	64400	45100	90700
22	43200	43600	23600	29800	35500	110000	108000	105000	221000	84700	44700	74200
23	43100	43600	e25200	29500	36300	110000	113000	101000	226000	68900	44700	67400
24	44600	44200	e25300	28900	42900	122000	105000	103000	202000	58300	45300	63300
25	47000	44500	e24500	27900	99600	130000	94100	93500	181000	58200	48600	65700
26	47200	44400	e23200	27000	181000	123000	84400	85000	151000	70600	55800	71600
27	45200	44900	e23700	26500	188000	108000	79900	79800	121000	82400	65900	65400
28	44600	45000	e24800	26300	158000	97100	81400	78000	108000	72400	62500	59400
29	44600	44300	e24900	33900	---	88900	86100	75600	101000	71500	54800	56800
30	44200	42700	e26000	55500	---	84100	89100	73000	94600	84000	52700	55100
31	43200	---	e26900	63900	---	80100	---	79900	---	93500	51100	---
MEAN	44270	46500	28320	30980	64680	104000	98090	110600	166800	74770	50590	56820
MAX	51000	58000	41100	63900	188000	194000	129000	168000	294000	96900	78900	108000
MIN	41700	42700	21700	26300	31500	60400	71700	73000	94600	58200	43900	43400
IN.	.10	.10	.07	.07	.13	.24	.22	.25	.37	.17	.12	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2001[a], BY WATER YEAR (WY)

MEAN	66190	62400	45530	36190	49970	71900	91810	93280	95950	85540	64550	66960
MAX	187800	139100	106200	90150	106300	183900	212700	234700	201100	375200	213600	165900
(WY)	1974	1999	1983	1973	1982	1973	1973	1995	1984	1993	1993	1993
MIN	36280	24600	13840	14770	17620	19460	39060	40770	41990	41560	36570	36730
(WY)	1965	1991	1964	1963	1964	1964	1989	1989	1988	1988	1991	1991

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1958 - 2001[a]	
ANNUAL MEAN	45560		72890		69220	
HIGHEST ANNUAL MEAN					140500	1993
LOWEST ANNUAL MEAN					39070	1963
HIGHEST DAILY MEAN	126000	Jun 26	294000	Jun 8	721000	Jul 30 1993
LOWEST DAILY MEAN	21700	Dec 21	21700	Dec 21	5000	Dec 21 1963
ANNUAL SEVEN-DAY MINIMUM	23500	Dec 17	23500	Dec 17	5730	Dec 19 1963
MAXIMUM PEAK FLOW	---		301000	Jun 8	755000	Jul 29 1993
MAXIMUM PEAK STAGE	---		30.40	Jun 8	37.10	Jul 29 1993
INSTANTANEOUS LOW FLOW	---		21600	Dec 21	5500	Jan 22,24 1963
ANNUAL RUNOFF (INCHES)	1.24		1.97		1.87	
10 PERCENT EXCEEDS	56700		131000		125000	
50 PERCENT EXCEEDS	44200		56800		55800	
90 PERCENT EXCEEDS	33200		27800		29400	

e Estimated
[a] Post-regulation period.

06910750 MOUREU RIVER NEAR JEFFERSON CITY, MO

LOCATION.--Lat 38°31'44", long 92°11'31", SE $^1/_4$ NW $^1/_4$ SE $^1/_4$ sec.25, T.44 N., R.11 W., Cole County, near right bank on downstream side of right pier of bridge on Tanner Bridge Road, 3 mi south of Jefferson City, 15.8 mi downstream from confluence of North and South Moreau Creeks, and at mile 17.

DRAINAGE AREA.--561 mi^2.

PERIOD OF RECORD.--December 1947 to September 1974, November 13, 2000 to current year. Published as Moureau River near Jefferson City, Mo., 06910500, 1948 to 1974. Discharge measurements only October 1956 to September 1957.

GAGE.--Water-stage recorder. Datum of gage is 546.33 ft above sea level. Prior to Aug. 17, 1958, nonrecording gage, and Aug. 17, 1958 to May 21, 1969, water-stage recorder at site 10 mi upstream and at datum 16.4 ft higher, drainage area 531 mi^2.

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1905 reached a stage of 38.2 ft, flood of 1929 reached a stage of 32.91 ft, and flood of 1943 reached a stage of 35.1 ft, present site, from information and floodmarks by local residents

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	23	14	436	562	117	92	5820	88	57	31
2	---	---	23	13	281	515	113	85	863	73	46	20
3	---	---	22	12	197	510	2180	78	1270	60	36	15
4	---	---	22	12	154	408	e12300	76	5140	58	30	15
5	---	---	21	13	133	330	e10000	75	7170	51	25	14
6	---	---	20	14	119	270	1040	70	4660	69	21	11
7	---	---	20	17	108	230	613	160	13400	90	18	7.6
8	---	---	20	21	100	204	444	160	4330	66	19	7.9
9	---	---	19	23	961	189	347	110	666	53	18	33
10	---	---	19	25	3390	171	343	106	446	43	18	28
11	---	---	21	28	580	157	993	88	340	37	18	22
12	---	---	20	32	342	150	2220	81	272	47	17	15
13	---	72	21	45	304	141	668	80	221	266	31	15
14	---	58	21	68	877	134	394	76	182	342	26	14
15	---	50	23	106	1430	184	1240	66	187	170	20	12
16	---	44	23	180	660	1180	1430	59	394	103	16	11
17	---	39	21	135	392	1350	508	59	304	71	14	11
18	---	35	20	101	273	611	348	225	190	56	13	43
19	---	32	20	76	211	392	277	210	139	48	10	44
20	---	29	18	62	184	301	235	114	109	41	8.6	45
21	---	27	18	54	165	248	209	1390	94	36	7.7	64
22	---	27	16	49	151	215	204	560	86	32	7.1	308
23	---	25	15	44	140	204	263	325	82	29	7.8	274
24	---	24	16	40	5080	211	226	191	82	26	11	140
25	---	26	e15	37	14100	193	184	135	79	27	45	86
26	---	27	e15	36	4730	165	156	111	69	27	33	62
27	---	26	e15	34	741	145	136	92	62	26	23	49
28	---	24	e15	34	618	133	124	82	55	103	20	39
29	---	24	15	852	---	127	111	74	58	199	17	32
30	---	23	14	3970	---	123	100	73	125	120	23	27
31	---	---	14	825	---	121	---	6820	---	76	21	---
MEAN	---	34.0	18.9	225	1316	319	1251	385	1563	81.7	21.8	49.8
MAX	---	72	23	3970	14100	1350	12300	6820	13400	342	57	308
MIN	---	23	14	12	100	121	100	59	55	26	7.1	7.6
IN.	---	.04	.04	.46	2.44	.65	2.49	.79	3.11	.17	.04	.10

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	314	224	214	354	455	639	561	536	646	324	115	280
MAX	2076	1298	1040	1591	1866	3169	2256	2815	2548	2237	534	2987
(WY)	1970	1973	1969	1949	1951	1973	1973	1970	1948	1951	1950	1965
MIN	.81	1.03	4.29	5.57	7.75	11.9	9.36	29.7	13.2	4.41	1.78	1.35
(WY)	1954	1954	1954	1964	1954	1954	1956	1965	1952	1959	1953	1960

SUMMARY STATISTICS	NOV 2000-SEP 2001		FOR PERIOD OF RECORD	
ANNUAL MEAN			381	
HIGHEST ANNUAL MEAN			881	1973
LOWEST ANNUAL MEAN			50.4	1954
HIGHEST DAILY MEAN	14100	Feb 25	20800	Jun 23 1948
LOWEST DAILY MEAN	7.1	Aug 22	.10	Sep 30 1956
ANNUAL SEVEN-DAY MINIMUM	9.3	Aug 18	.21	Sep 24 1956
MAXIMUM PEAK FLOW	15300	Feb 25	24400	Oct 14 1969
MAXIMUM PEAK STAGE	24.10	Feb 25	28.60	Oct 14 1969
INSTANTANEOUS LOW FLOW	6.5	Aug 22,Sep 8	.10	Sep 30 1956
ANNUAL RUNOFF (INCHES)	---		9.22	
10 PERCENT EXCEEDS	667		683	
50 PERCENT EXCEEDS	76		66	
90 PERCENT EXCEEDS	15		6.4	

e Estimated

06917060 LITTLE OSAGE RIVER AT HORTON, MO

LOCATION.--Lat 37°59'38", long 94°22'07", in SW $^1/_4$ NE $^1/_4$ NW $^1/_4$ sec. 17, T.37 N., R.31 W., Vernon County, Hydrologic Unit 10290103, on left bank at the upstream side of the southbound bridge of U.S. Highway 71, 4 mi above Marmaton River, and 1 mi north of Horton.

DRAINAGE AREA.--498 mi^2.

PERIOD OF RECORD.--October 2000 to current year. Nov. 18, 1988 to Sept. 30, 2000, stage only.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above sea level.

REMARKS.--Records poor. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 1986 reached a stage of 59.4 ft (by U.S. Army Corps of Engineers).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e6.0	3.0	6.6	e2.9	667	e1150	138	79	449	98	119	3.0
2	e5.2	3.8	5.7	e2.8	233	e850	130	73	1590	65	86	2.6
3	e4.0	3.4	4.9	e2.7	169	646	129	68	1900	50	65	2.5
4	e3.4	2.4	4.9	e2.6	135	386	151	63	4330	48	52	2.6
5	e3.0	2.0	4.9	e2.5	100	274	414	60	e3260	57	42	3.5
6	e2.8	4.1	4.5	e4.0	89	225	303	56	e2130	104	34	4.5
7	e2.4	3.4	4.3	6.0	74	195	207	54	e1460	85	26	4.7
8	e2.0	2.5	4.4	3.0	86	178	169	52	e1100	59	22	5.8
9	e1.8	4.8	4.0	3.0	374	165	141	79	1080	42	19	5.4
10	e1.6	5.1	3.9	4.2	996	152	479	105	908	28	16	5.6
11	e1.6	5.1	3.9	3.4	1100	142	1910	98	592	20	12	5.8
12	e1.3	4.4	4.1	3.4	841	143	2600	92	311	e17	9.0	5.9
13	e1.8	3.9	5.1	3.2	301	264	2860	75	197	e15	6.6	5.1
14	e3.9	25	5.5	4.5	198	372	860	63	158	e12	4.7	4.2
15	e3.7	40	5.3	5.9	421	598	390	50	173	e20	4.4	3.4
16	e5.2	36	5.0	8.8	375	2660	343	40	442	25	6.1	2.9
17	17	31	5.0	18	203	e3130	300	54	343	17	4.9	3.4
18	268	27	5.4	28	153	e2070	237	704	172	12	2.8	5.5
19	134	23	6.0	25	121	e1330	204	494	117	6.7	1.9	7.6
20	66	20	5.6	20	109	e818	185	479	239	4.1	1.5	6.4
21	40	17	5.4	17	102	e474	171	304	e606	3.5	1.0	9.4
22	26	16	4.5	15	94	332	161	354	e801	5.1	.66	15
23	18	15	3.9	13	87	268	153	326	e574	5.0	.62	12
24	12	13	3.7	11	732	236	148	194	406	4.4	2.8	9.0
25	8.9	9.1	3.4	9.6	2830	207	150	134	189	4.6	4.3	7.0
26	6.7	7.9	e3.2	9.0	e2150	183	136	104	137	6.6	4.4	5.6
27	5.6	9.1	e3.2	8.0	e1710	166	122	85	108	26	3.8	5.3
28	3.3	7.3	e4.0	11	e1260	156	109	72	88	504	3.0	5.6
29	1.1	6.3	e3.6	43	---	153	98	63	243	1310	3.0	5.4
30	1.5	6.9	e3.2	978	---	150	87	184	272	447	3.4	4.6
31	2.6	---	e3.0	1240	---	147	---	734	---	176	3.6	---
MEAN	21.3	11.9	4.52	80.9	561	588	450	174	812	106	18.2	5.64
MAX	268	40	6.6	1240	2830	3130	2860	734	4330	1310	119	15
MIN	1.1	2.0	3.0	2.5	74	142	87	40	88	3.5	.62	2.5

SUMMARY STATISTICS	FOR 2001 WATER YEAR	
ANNUAL MEAN	232	
HIGHEST DAILY MEAN	4330	Jun 4
LOWEST DAILY MEAN	.62	Aug 23
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 18
MAXIMUM PEAK FLOW	Unknown	Jun 6
MAXIMUM PEAK STAGE	44.43	Jun 6
INSTANTANEOUS LOW FLOW	.62	Aug 23
10 PERCENT EXCEEDS	622	
50 PERCENT EXCEEDS	26	
90 PERCENT EXCEEDS	3.0	

e Estimated

06918065 MARMATON RIVER BELOW NEVADA, MO

LOCATION.--Lat 37°55'07", long 94°21'39", in NE $^1/_4$ SE $^1/_4$ NE $^1/_4$ sec.8, T.36 N., R.31 W., Vernon County, Hydrologic Unit 10290104, on right bank at the upstream side of the southbound bridge of U.S. Highway 71, 21 mi above Osage River, and 4.2 mi north of Nevada.

DRAINAGE AREA.--1,090 mi^2.

PERIOD OF RECORD.--October 2000 to current year. Nov. 17, 1988 to Sept. 30, 2000, stage only station.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above sea level.

REMARKS.--Records poor. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 1986 reached a stage of 62.2 ft (by U.S. Army Corps of Engineers).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	26	30	25	2670	e3200	289	94	2060	143	232	20
2	22	28	26	25	1010	e2600	267	79	1890	97	163	19
3	21	29	25	24	536	2030	297	72	1900	78	117	19
4	22	29	25	24	385	1310	710	67	4900	68	84	24
5	22	33	25	24	324	881	592	65	e5000	64	59	22
6	19	37	25	25	288	681	431	60	e4500	56	44	18
7	17	40	25	27	253	566	357	59	e3500	49	35	16
8	16	39	25	29	256	489	301	62	e2500	45	29	19
9	14	e42	26	33	2370	441	257	64	e1800	41	26	18
10	13	e53	26	34	4770	396	245	65	e1300	37	22	18
11	13	e68	26	36	5070	355	973	69	e900	28	20	21
12	13	e85	26	41	3730	343	1920	124	e600	39	18	23
13	13	139	28	43	1670	799	2050	273	329	43	17	24
14	15	115	30	37	1670	1070	1120	161	219	43	15	24
15	15	98	33	29	3180	981	330	107	1530	43	14	22
16	18	86	34	26	2380	4500	1370	74	3170	28	20	21
17	45	73	32	26	1390	e3500	1130	59	1850	27	18	23
18	490	63	31	28	833	e2800	552	162	444	27	18	25
19	348	56	31	33	617	e2000	371	2370	243	29	18	23
20	170	50	30	36	552	e1500	299	2170	317	35	19	20
21	98	46	28	39	503	e900	263	843	796	33	18	30
22	66	44	28	40	423	e750	237	659	2920	28	19	32
23	50	42	26	39	370	687	229	386	2570	24	19	26
24	40	41	26	37	2320	571	233	218	1260	22	20	21
25	35	40	25	39	e4500	476	270	147	508	22	21	18
26	31	37	25	41	e4700	414	237	108	307	22	19	16
27	29	36	25	45	e5000	358	184	86	233	39	16	18
28	26	36	24	53	e4000	326	151	72	178	2500	15	19
29	24	34	25	189	---	322	128	62	177	3400	18	18
30	24	30	25	4270	---	319	108	67	224	1390	21	15
31	24	---	25	4550	---	305	---	996	---	412	20	---
MEAN	57.3	52.5	27.1	321	1992	1157	530	319	1604	287	38.5	21.1
MAX	490	139	34	4550	5070	4500	2050	2370	5000	3400	232	32
MIN	13	26	24	24	253	305	108	59	177	22	14	15

SUMMARY STATISTICS FOR 2001 WATER YEAR

ANNUAL MEAN	522	
HIGHEST DAILY MEAN	5070	Feb 11
LOWEST DAILY MEAN	13	Oct 10-13
ANNUAL SEVEN-DAY MINIMUM	14	Oct 9
MAXIMUM PEAK FLOW	Unknown	Feb 27
MAXIMUM PEAK STAGE	48.29	Feb 27
INSTANTANEOUS LOW FLOW	13	Oct 10-13
10 PERCENT EXCEEDS	1910	
50 PERCENT EXCEEDS	53	
90 PERCENT EXCEEDS	19	

e Estimated

06918070 OSAGE RIVER ABOVE SCHELL CITY, MO

LOCATION.--Lat 38°03'20", long 94°08'44", in SE $^1/_4$ SW $^1/_4$ NW $^1/_4$ sec.20, T.38 N., R.29 W., Bates County, Hydrologic Unit 10290105, on downstream side of left pier of bridge on State Highway M, 0.8 mi downstream from Shaw Branch, 0.2 mi upstream from McKenzie Creek, and 3.0 mi northwest of Schell City.

DRAINAGE AREA.--5,410 mi^2, by U.S. Army Corps of Engineers.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1981 to current year.

GAGE.--Water-stage recorder and slope gage 1.7 mi downstream. Datum of gage is 700.00 ft above sea level.

REMARKS.--Discharge is calculated using fall computations due to backwater from Harry S Truman Reservoir. Water-discharge records poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 133,000 ft^3/s, Oct. 5, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 28,600 ft^3/s, June 8; minimum, 79 ft^3/s, Oct. 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	155	140	e123	5960	11800	1820	516	2790	4290	1220	567
2	106	158	156	e124	3190	10800	1490	470	5480	3120	841	328
3	92	165	153	e123	1730	9080	1400	430	8080	2390	641	371
4	94	166	146	e125	1140	7020	1610	407	16200	2280	513	286
5	98	172	152	e125	831	5320	2650	385	18200	1940	436	258
6	106	162	147	e126	714	3980	2520	367	20600	2060	345	e245
7	96	174	139	e127	643	3160	1980	362	25100	1600	277	e235
8	92	191	147	e129	590	2530	1620	368	28600	1150	212	e225
9	90	349	143	e130	1510	2040	1350	390	25900	989	191	e215
10	88	450	138	e133	5090	1880	2300	462	17400	941	214	212
11	89	333	136	e133	7220	1730	7090	776	9790	e860	213	230
12	88	301	153	e144	7320	1680	6650	912	6720	e800	231	224
13	85	283	158	e167	4510	1720	6510	1470	4900	e760	222	223
14	79	283	158	182	2570	2410	5410	1450	3540	e740	231	216
15	85	272	157	186	3460	3410	2990	906	e3200	e710	225	205
16	101	239	143	212	4510	12200	2400	650	5040	e690	254	188
17	94	226	148	250	3800	14400	3300	513	5190	597	235	202
18	120	223	149	271	2640	14900	2670	1290	3410	523	228	204
19	577	209	147	260	1930	14400	1950	4460	2650	445	249	447
20	446	205	e142	e255	1620	11700	1620	7920	2720	369	245	741
21	276	201	e138	e250	1480	8810	1450	5800	6020	344	245	2250
22	214	193	e136	e245	1410	5850	1340	4690	9580	342	295	1480
23	196	180	e136	e240	1310	4320	1080	5490	12100	377	275	822
24	188	180	e132	e235	2740	3500	997	4190	10300	352	266	605
25	190	169	e134	e245	12300	2960	967	2240	5680	459	266	512
26	190	176	e129	e265	14600	2630	973	1350	3290	644	287	1200
27	210	177	e132	e245	15100	2390	871	981	2780	1660	303	1090
28	204	169	e129	e240	13700	2200	757	753	3710	2150	325	819
29	206	157	e129	e240	---	2080	668	640	4330	5570	313	724
30	190	159	e124	e1000	---	2060	615	608	4620	4630	245	665
31	171	---	e123	e7200	---	2100	---	1710	---	2270	366	---
MEAN	160	216	142	443	4415	5647	2302	1708	9264	1486	336	533
MAX	577	450	158	7200	15100	14900	7090	7920	28600	5570	1220	2250
MIN	79	155	123	123	590	1680	615	362	2650	342	191	188

e Estimated

06918070 OSAGE RIVER ABOVE SCHELL CITY, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1979 to September 1993, November 1994 to current year, formerly published as 06918080 Osage River near Schell City, Missouri.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1979 to September 1981.
WATER TEMPERATURE: March 1979 to September 1981.
SUSPENDED-SEDIMENT: February 1991 to September 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,950 microsiemens per centimeter, Oct. 11, 1980; minimum daily, 114 microsiemens per centimeter, June 12, 1981.
WATER TEMPERATURE: Maximum daily, 32.0 °C, July 11, 1980; minimum daily, 0.0 °C, Feb. 5, 1980, and Feb. 11-14, 1981.
SUSPENDED-SEDIMENT CONCENTRATONS: Maximum daily mean, 4,020 mg/L, Feb. 21, 1997; minimum daily mean, 8 mg/L, Aug. 4 and 5, 1993, and Jan. 10-12, 1995.
SUSPENDED-SEDIMENT LOADS: Maximum daily, 160,000 tons, Feb. 21, 1997; minimum daily, 1.7 tons, Nov. 7-13, 1991.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV 27...	1500	ENVIRONMENTAL	177	10.5	85.4	8.4	635	6.7	251	71.4	17.7	6.34
MAR 21...	1015	ENVIRONMENTAL	9090	8.9	77.6	7.8	290	9.2	--	--	--	--
APR 18...	1115	ENVIRONMENTAL	2720	8.0	79.4	7.7	388	15.5	--	--	--	--
MAY 21...	1430	ENVIRONMENTAL	5450	3.8	43.2	7.6	294	21.1	120	38.3	6.38	4.34
JUN 13...	0930	ENVIRONMENTAL	5080	3.9	49.9	7.4	315	25.6	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV 27...	37.2	150	149	167	7	32.4	.3	119	11	397	<.041	.70	.158
MAR 21...	--	83	83	102	0	--	--	--	--	--	E.040	1.3	1.76
APR 18...	--	113	113	138	0	--	--	--	--	--	E.023	1.0	.725
MAY 21...	8.6	80	80	98	0	6.3	.3	42	484	25	.084	2.2	1.82
JUN 13...	--	115	114	139	0	--	--	--	--	--	<.040	1.0	.425

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV 27...	.010	<.060	<.018	.070	25	K10	K2	K2	22	128	.9	<8.00	<.11
MAR 21...	.037	.081	.087	.282	--	K140	480	700	--	--	--	--	--
APR 18...	.059	E.058	<.018	.190	--	220	230	K69	--	--	--	--	--
MAY 21...	.132	.104	.067	.640	51	3600	5000	K11100	438	7160	1.1	<8.00	.23
JUN 13...	.022	.085	.050	.223	--	130	100	280	--	--	--	--	--

06918070 OSAGE RIVER ABOVE SCHELL CITY, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)
NOV													
27...	<4.7	90	.08	<1	58.5	<.14	8	3	<.002	<.004	<.002	<.005	.262
MAR													
21...	--	--	--	--	--	--	--	--	<.002	.012	<.002	<.005	.185
APR													
18...	--	--	--	--	--	--	--	--	<.002	.010	.269	<.005	.676
MAY													
21...	<5.0	470	.71	12	10.2	.02	--	40	<.002	.668	1.27	<.005	14.4
JUN													
13...	--	--	--	--	--	--	--	--	<.002	.036	.093	<.005	1.57

DATE	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL-ATE, WATER, DISS, REC (µg/L) (04028)	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (µg/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)	DI-ELDRIN DIS-SOLVED (µg/L) (39381)	DISUL-FOTON WATER FLTRD 0.7µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7µ GF, REC (µg/L) (82663)
NOV													
27...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.053	<.005	<.005	<.021	<.002	<.009
MAR													
21...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.025	<.005	<.005	<.021	<.002	<.009
APR													
18...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.026	<.005	<.005	<.021	<.002	<.009
MAY													
21...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.853	E.003	<.005	<.021	<.002	<.009
JUN													
13...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.219	<.005	<.005	<.021	<.002	<.009

DATE	ETHO-PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS-SOLVED (µg/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA-THION, DIS-SOLVED (µg/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA-THION, DIS-SOLVED (µg/L) (39542)
NOV													
27...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.032	<.006	<.002	<.007	<.003	<.007
MAR													
21...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.022	<.006	<.002	<.007	<.003	<.007
APR													
18...	<.005	<.003	<.004	<.035	<.027	<.050	<.040	.069	.014	<.002	<.007	<.003	<.007
MAY													
21...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	2.79	.152	<.002	<.007	<.003	<.007
JUN													
13...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.401	.009	<.002	<.007	<.003	<.007

06918070 OSAGE RIVER ABOVE SCHELL CITY, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PEB-ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO-PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI-MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER-BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)
NOV													
27...	<.002	<.010	<.006	<.011	E.010	<.004	<.010	<.011	<.023	E.001	.016	<.034	<.017
MAR													
21...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
APR													
18...	<.002	<.010	<.006	<.011	E.005	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
MAY													
21...	<.008	<.010	<.006	<.011	.019	<.004	.470	<.011	<.023	.075	<.016	<.034	<.017
JUN													
13...	<.002	<.010	<.006	<.011	E.006	<.004	<.010	<.011	<.023	.019	<.016	<.034	<.017

DATE	THIO-BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)
NOV			
27...	<.005	<.002	<.009
MAR			
21...	<.005	<.002	<.009
APR			
18...	<.005	<.002	<.009
MAY			
21...	<.005	<.002	.014
JUN			
13...	<.005	<.002	<.009

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

06918440 SAC RIVER NEAR DADEVILLE, MO

LOCATION.--Lat 37°26'35", long 93°41'05", in NE $^1/_4$ NE $^1/_4$ NW $^1/_4$ sec.9, T.31 N., R.25 W., Dade County, Hydrologic Unit 10290106, on downstream side of bridge on State Highway 245, 2 mi upstream from Cave Spring Branch, and 2 mi south of Dadeville.

DRAINAGE AREA.--257 mi^2.

PERIOD OF RECORD.--June 1966 to current year. Annual maximum, water years 1965-66.

GAGE.--Water-stage recorder. Datum of gage is 869.78 ft above sea level (levels by the Missouri State Highway and Transportation Commission). Prior to June 1966, crest-stage gage at same site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	32	e30	e19	196	690	142	70	64	98	65	35
2	21	52	e28	e19	172	607	142	68	64	84	54	30
3	21	39	e27	e20	155	543	142	66	286	77	46	26
4	21	35	e26	21	142	488	134	65	313	76	42	24
5	20	32	e28	22	129	441	129	64	218	76	47	21
6	21	33	e27	22	119	409	125	66	164	73	44	20
7	22	39	e26	23	110	385	121	80	135	68	38	20
8	e21	44	e25	24	103	359	116	73	111	64	35	24
9	e20	48	e25	26	116	338	113	67	95	60	33	27
10	e20	50	26	27	124	319	108	65	82	55	32	35
11	e21	50	25	30	119	302	112	95	75	55	33	34
12	e22	47	24	38	117	292	116	115	70	53	33	30
13	e23	44	24	54	144	276	106	94	65	49	30	27
14	e21	41	27	81	230	260	102	80	73	46	28	25
15	e20	39	29	93	251	265	163	73	117	42	26	23
16	e20	37	e26	94	262	279	156	68	80	44	25	22
17	e22	35	e24	87	260	258	143	65	68	45	24	23
18	e38	32	e23	80	247	241	133	79	63	41	31	26
19	e33	31	e22	74	234	228	126	85	57	38	49	25
20	e30	30	e22	73	217	219	120	79	58	36	47	22
21	e28	29	e23	73	203	211	113	122	344	35	40	21
22	e25	28	e27	70	221	204	106	112	403	33	32	20
23	e26	27	e25	65	254	196	107	104	272	32	30	19
24	e25	26	e24	63	2700	186	97	88	216	31	30	19
25	e24	e25	e23	59	3310	177	89	79	177	30	30	19
26	e23	e24	e22	57	1470	171	85	75	147	30	28	19
27	e22	e25	e21	56	1030	165	81	70	126	47	26	18
28	e24	e33	e20	57	816	160	77	67	111	143	24	18
29	e23	30	e22	106	---	157	75	64	135	108	22	18
30	e22	32	e21	228	---	152	72	65	118	96	22	17
31	e22	---	e20	224	---	148	---	67	---	75	21	---
MEAN	23.3	35.6	24.6	64.0	480	294	115	78.4	144	59.4	34.4	23.6
MAX	38	52	30	228	3310	690	163	122	403	143	65	35
MIN	20	24	20	19	103	148	72	64	57	30	21	17
IN.	.10	.15	.11	.29	1.95	1.32	.50	.35	.62	.27	.15	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2001, BY WATER YEAR (WY)

MEAN	137	296	297	235	290	431	398	354	213	114	62.5	110
MAX	780	1139	1058	743	918	1170	1427	1746	820	392	205	1545
(WY)	1987	1986	1993	1991	1985	1975	1994	1990	1995	1993	1968	1993
MIN	16.6	16.8	19.7	14.0	23.5	29.2	30.1	30.1	39.2	22.1	10.1	6.78
(WY)	1992	1981	1977	1981	1981	1996	1981	1977	1972	1980	1980	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1966 - 2001	
ANNUAL MEAN	56.4		112		245	
HIGHEST ANNUAL MEAN					560	1993
LOWEST ANNUAL MEAN					50.2	1977
HIGHEST DAILY MEAN	385	Jul 23	3310	Feb 25	23300	Sep 25 1993
LOWEST DAILY MEAN	19	Sep 21,22	17	Sep 30	4.5	Sep 14 1980
ANNUAL SEVEN-DAY MINIMUM	20	Sep 16	18	Sep 24	5.3	Sep 11 1980
MAXIMUM PEAK FLOW	---		4100	Feb 25	36100	Sep 25 1993
MAXIMUM PEAK STAGE	---		13.75	Feb 25	27.56	Sep 25 1993
INSTANTANEOUS LOW FLOW	---		17	Sep 30	3.8	Aug 8 1996
ANNUAL RUNOFF (INCHES)	2.99		5.92		12.94	
10 PERCENT EXCEEDS	107		228		532	
50 PERCENT EXCEEDS	38		55		111	
90 PERCENT EXCEEDS	22		22		24	

e Estimated

06918460 TURNBACK CREEK ABOVE GREENFIELD, MO

LOCATION.--Lat 37°24'09", long 93°48'06", on line between secs.21 and 28, T.31 N., R.26 W., Dade County, Hydrologic Unit 10290106, on left downstream side of bridge pier on State Highway O, 1.5 mi downstream from Limestone Creek, and 2.0 mi southeast of Greenfield.

DRAINAGE AREA.--252 mi^2.

PERIOD OF RECORD.--September 1965 to current year.

REVISED RECORDS.--WDR MO-84-1 1968, 1970, 1972-74, 1976, 1978-79, 1983, 1986 (p).

GAGE.--Water-stage recorder. Datum of gage is 870.49 ft above sea level (levels by the Missouri State Highway and Transportation Commission).

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

REVISIONS.--The maximum discharge for the water year 1987 has been revised to 30,500 ft^3/s, Oct. 1, 1986, gage height, 24.5 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	35	41	e26	316	745	174	103	90	133	53	25
2	25	97	39	e26	284	662	173	100	85	117	47	24
3	25	94	38	27	262	591	171	95	389	104	42	22
4	26	77	37	e29	242	531	165	89	325	100	40	21
5	25	66	36	e32	225	475	159	88	230	92	39	20
6	27	63	37	34	210	434	154	87	191	87	36	23
7	27	63	36	34	196	402	149	95	165	80	40	21
8	25	65	35	39	185	374	143	89	146	74	41	27
9	25	73	34	44	189	350	139	82	131	69	35	35
10	26	90	34	51	199	331	136	78	119	68	33	34
11	25	92	32	65	197	314	140	89	107	65	32	32
12	25	87	32	80	197	302	139	106	96	63	31	29
13	27	80	37	111	237	285	132	97	88	60	29	28
14	25	72	36	142	361	270	127	88	87	58	27	26
15	26	70	34	161	380	279	196	81	119	55	26	25
16	61	65	34	160	387	320	199	76	109	58	26	24
17	74	60	33	151	363	292	184	74	91	58	25	33
18	61	56	33	143	339	279	177	121	81	53	25	37
19	47	54	32	136	322	270	169	151	73	49	25	33
20	41	50	33	134	300	262	164	137	78	46	23	30
21	37	47	34	129	285	252	158	174	379	44	22	27
22	35	46	e33	124	324	244	151	194	314	42	21	26
23	34	46	e32	117	382	235	152	177	234	39	21	25
24	32	46	e31	94	3550	225	142	157	197	37	23	25
25	32	48	e30	89	2460	215	135	142	172	36	24	24
26	30	47	e30	83	1270	208	130	128	154	38	25	24
27	32	48	e29	79	1000	203	125	117	140	55	24	23
28	31	47	e28	84	847	197	117	107	128	78	22	22
29	30	45	e28	203	---	192	112	98	172	83	21	21
30	29	43	e27	382	---	186	107	100	178	69	22	20
31	29	---	e27	356	---	180	---	99	---	59	21	---
MEAN	32.9	62.4	33.3	109	554	326	151	110	162	66.7	29.7	26.2
MAX	74	97	41	382	3550	745	199	194	389	133	53	37
MIN	25	35	27	26	185	180	107	74	73	36	21	20
IN.	.15	.28	.15	.50	2.29	1.49	.67	.50	.72	.31	.14	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2001, BY WATER YEAR (WY)

MEAN	149	313	293	245	319	459	436	369	248	154	89.0	132
MAX	921	1385	982	765	1020	1377	1410	1797	874	636	354	1579
(WY)	1987	1986	1988	1973	1985	1973	1994	1990	1993	1992	1982	1993
MIN	23.4	21.7	20.2	19.9	27.5	27.1	39.3	93.9	44.3	24.2	14.4	11.6
(WY)	1979	1981	1990	1981	1981	1996	1981	1981	1972	1972	1980	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1965 - 2001	
ANNUAL MEAN	101		136		267	
HIGHEST ANNUAL MEAN					612	1993
LOWEST ANNUAL MEAN					84.1	1981
HIGHEST DAILY MEAN	1150	Jul 23	3550	Feb 24	23700	Sep 25 1993
LOWEST DAILY MEAN	25	Sep 21,Oct 2,3,5, 8,9,11,12,14	20	Sep 5,30	9.4	Oct 12 1980
ANNUAL SEVEN-DAY MINIMUM	25	Oct 8	22	Aug 30	10	Oct 8 1980
MAXIMUM PEAK FLOW	---		4650	Feb 24	44000	Oct 1 1986
MAXIMUM PEAK STAGE	---		14.90	Feb 24	26.34	Sep 25 1993
INSTANTANEOUS LOW FLOW	---		19	Sep 5	9.4	Oct 12 1980
ANNUAL RUNOFF (INCHES)	5.47		7.31		14.37	
10 PERCENT EXCEEDS	194		285		573	
50 PERCENT EXCEEDS	64		77		129	
90 PERCENT EXCEEDS	32		25		32	

e Estimated

06918493 SOUTH DRY SAC RIVER NEAR SPRINGFILED, MO

LOCATION.--Lat 37°15'58", long 93°14'56", in SW $^1/_4$ NW $^1/_4$ NE $^1/_4$ sec.5, T.29 N., R.21 W., Greene County, Hydrologic Unit 10290106, on downstream side of right wingwall on Barnes Road, 1 mile north of Springfield.

DRAINAGE AREA.--13.7 mi^2.

PERIOD OF RECORD.--August 30, 1996 to present.

GAGE.--Water stage recorder. Datum of gage is unknown.

REMARKS.--Records poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.7	3.9	e1.9	15	e40	6.5	3.8	3.6	10	16	3.2
2	1.4	3.1	3.4	e1.9	13	e35	6.3	3.8	4.1	8.2	13	3.1
3	1.3	2.7	3.1	e1.8	12	e30	6.2	3.6	15	7.0	11	3.1
4	1.3	2.4	2.7	e1.7	10	e25	6.0	3.6	12	7.1	11	3.0
5	1.3	2.3	2.6	e1.6	9.1	e21	6.0	3.5	9.1	60	9.6	3.0
6	1.3	8.3	2.5	e2.0	8.1	19	5.8	3.6	7.7	26	7.9	3.2
7	1.2	7.1	2.3	e2.5	7.5	17	5.5	3.7	6.9	17	7.2	3.3
8	1.2	7.9	2.6	2.9	7.4	15	5.3	3.5	6.0	14	7.5	22
9	1.2	11	2.7	3.7	15	14	5.3	3.5	5.5	11	7.6	31
10	1.0	9.8	2.7	4.4	16	13	5.2	3.5	5.0	9.7	7.4	16
11	.94	7.9	2.7	4.8	14	12	5.3	4.3	4.8	8.9	6.6	11
12	.87	7.1	2.7	5.7	12	12	5.8	4.1	4.6	15	6.0	8.7
13	1.3	6.5	3.3	10	19	11	5.6	4.1	4.5	12	5.5	6.9
14	1.9	5.9	3.7	15	30	11	5.3	3.8	4.6	9.2	5.0	6.2
15	2.6	5.2	3.6	15	41	11	8.1	3.8	4.7	7.8	4.8	5.2
16	3.9	4.4	3.6	13	31	12	6.7	3.6	4.7	7.4	4.8	4.7
17	4.8	4.0	3.6	10	20	11	5.9	3.6	4.6	7.1	4.8	4.5
18	4.9	3.7	3.9	9.0	15	9.9	5.3	3.6	4.4	6.1	4.7	5.0
19	4.6	3.5	4.0	7.8	13	9.5	5.4	4.4	4.3	6.6	4.7	4.9
20	3.8	3.2	3.9	7.2	11	8.8	4.9	4.4	4.3	7.3	4.6	4.3
21	3.4	2.9	e3.6	6.9	9.8	8.8	4.8	6.9	48	7.0	4.6	3.9
22	3.1	2.7	e3.2	6.5	e9.0	8.6	4.7	5.5	19	5.9	4.4	3.7
23	3.1	2.6	e3.1	5.9	e15	8.2	4.5	5.2	14	5.1	4.4	3.6
24	2.9	2.6	e2.8	5.7	e241	7.7	4.4	4.5	10	4.8	4.2	3.4
25	2.5	3.9	e2.5	5.2	e175	7.4	4.4	4.1	8.3	4.5	4.0	3.3
26	2.2	4.4	e2.4	4.7	e100	7.2	4.3	3.9	7.1	4.5	4.0	3.3
27	2.5	4.8	e2.2	4.4	e70	7.2	4.2	3.6	6.3	4.7	3.9	3.1
28	3.1	4.9	e2.2	4.3	e50	7.2	4.1	3.5	9.0	54	3.7	3.0
29	3.5	4.5	e2.1	10	---	6.9	4.0	3.5	22	69	3.5	3.0
30	3.2	4.2	e2.1	22	---	6.7	3.9	3.5	15	31	3.4	2.9
31	2.8	---	e2.0	19	---	6.7	---	3.5	---	21	3.4	---
MEAN	2.41	4.87	2.96	6.98	35.3	13.5	5.32	3.98	9.30	15.1	6.23	6.18
MAX	4.9	11	4.0	22	241	40	8.1	6.9	48	69	16	31
MIN	.87	2.3	2.0	1.6	7.4	6.7	3.9	3.5	3.6	4.5	3.4	2.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	5.99	15.2	9.45	9.61	22.9	28.7	18.4	14.6	9.55	19.4	5.16	4.51
MAX	11.2	58.3	21.5	15.7	35.3	57.3	51.3	41.3	17.0	63.2	8.83	8.17
(WY)	1999	1997	1997	1998	2001	1998	1999	1999	1999	2000	1998	1996
MIN	1.60	1.78	2.96	2.97	4.16	5.78	3.85	2.19	5.94	2.08	2.83	1.72
(WY)	2000	1998	2001	2000	2000	2000	2000	2000	1997	1997	1999	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL MEAN	9.02		9.17		13.5	
HIGHEST ANNUAL MEAN					18.2	1999
LOWEST ANNUAL MEAN					9.17	2001
HIGHEST DAILY MEAN	1320	Jul 12	241	Feb 24	1320	Jul 12 2000
LOWEST DAILY MEAN	.87	Oct 12	.87	Oct 12	.54	Aug 30 1996
ANNUAL SEVEN-DAY MINIMUM	1.1	Oct 6	1.1	Oct 6	.68	Aug 30 1996
MAXIMUM PEAK FLOW	---		670	Feb 24	Unknown	Jul 12 2000
MAXIMUM PEAK STAGE	---		4.85[a]	Feb 24	9.80	Jul 12 2000
INSTANTANEOUS LOW FLOW	---		.77	Oct 12	.00	Jul 15 1997
10 PERCENT EXCEEDS	11		15		28	
50 PERCENT EXCEEDS	3.2		4.8		5.5	
90 PERCENT EXCEEDS	1.8		2.6		1.8	

e Estimated
[a] From peak indicator

06918600 LITTLE SAC RIVER NEAR WALNUT GROVE, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°23'55", long 93°24'36", in SW $^1/_4$ NW $^1/_4$ SE $^1/_4$ sec.24, T.31 N., R.23 W., Greene County, Hydrologic Unit 10290106. Sampling site is approximately 7.5 mi east of Walnut Grove at bridge on Highway BB.

DRAINAGE AREA.--119 mi^2.

PERIOD OF RECORD.--Water years 1974 to 1978, 1984 to 1986, 1988 to 1990, 1994 to 1996, October 1999 to current year. Published as "Little Sac River at Walnut Grove", for periods of record from 1994 to 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT												
12...	0735	ENVIRONMENTAL	11	8.0	73	7.9	1110	11.3	--	--	--	--
NOV												
29...	1130	ENVIRONMENTAL	9.2	15.4	124	8.3	880	6.0	220	73.3	8.29	7.10
29...	1130	BLANK	--	--	--	--	--	--	--	.18	.021	.11
DEC												
12...	1330	ENVIRONMENTAL	8.7	18.6	130	8.2	805	1.2	--	--	--	--
JAN												
17...	1300	ENVIRONMENTAL	38	13.3	101	8.3	740	3.9	250	87.1	7.97	4.17
17...	1301	REPLICATE	--	--	--	--	--	--	250	87.8	7.98	3.76
FEB												
06...	1500	ENVIRONMENTAL	5.6	16.7	139	8.0	619	7.7	--	--	--	--
MAR												
19...	1445	ENVIRONMENTAL	76	13.5	122	8.3	504	10.5	--	--	--	--
APR												
17...	1350	ENVIRONMENTAL	37	8.8	85	8.1	583	14.0	--	--	--	--
17...	1351	REPLICATE	--	--	--	--	--	--	--	--	--	--
MAY												
23...	1400	ENVIRONMENTAL	29	8.8	94	8.0	667	18.4	220	75.6	6.90	4.77
JUN												
13...	1250	ENVIRONMENTAL	15	5.8	72	7.9	780	25.3	--	--	--	--
AUG												
21...	1350	ENVIRONMENTAL	13	7.1	91	7.9	608	25.6	--	--	--	--
SEP												
17...	1240	ENVIRONMENTAL	13	6.4	74	8.2	541	20.6	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT													
12...	--	214	215	262	0	--	--	--	--	--	<.041	.28	1.45
NOV													
29...	91.3	210	210	256	0	116	.3	19.4	<10	400	<.041	.45	1.60
29...	.9	--	--	--	--	1.7	<.2	.5	<10	<10	<.041	<.08	<.047
DEC													
12...	--	216	218	267	0	--	--	--	--	--	<.041	.49	1.00
JAN													
17...	50.1	211	211	251	3	80.7	E.1	19.6	<10	401	<.041	.21	1.56
17...	49.1	211	213	259	0	79.4	E.1	19.5	<10	400	--	--	--
FEB													
06...	--	180	180	220	0	--	--	--	--	--	<.041	.29	1.73
MAR													
19...	--	175	175	209	2	--	--	--	--	--	<.041	.26	1.61
APR													
17...	--	180	182	222	0	--	--	--	--	--	<.041	.27	.925
17...	--	--	--	--	--	--	--	--	--	--	<.041	.27	.980
MAY													
23...	46.4	196	198	242	0	71.5	.2	17.6	23	380	<.040	.37	1.19
JUN													
13...	--	215	215	262	0	--	--	--	--	--	<.040	.47	.736
AUG													
21...	--	197	199	243	0	--	--	--	--	--	E.023	.37	1.45
SEP													
17...	--	187	185	226	0	--	--	--	--	--	<.040	.29	.587

06918600 LITTLE SAC RIVER NEAR WALNUT GROVE, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
12...	E.004	.141	.122	.158	--	110	140	44	--	--	--	--	--
NOV													
29...	E.003	<.060	<.018	<.060	<10	K14	K34	52	10	50	.3	<8.00	<.11
29...	<.006	<.060	<.018	<.060	<10	--	--	--	3	8	<.2	<8.00	<.11
DEC													
12...	E.004	<.060	<.018	<.060	--	K4	K3	K4	--	--	--	--	--
JAN													
17...	.010	<.060	<.018	<.060	<10	K15	32	K18	12	21	.3	<8.00	<.11
17...	--	--	--	--	<10	29	30	K8	12	22	.3	<8.00	E.06
FEB													
06...	.012	<.060	<.018	<.060	--	K11	K2	K13	--	--	--	--	--
MAR													
19...	.007	<.060	<.018	<.060	--	K8	K13	K12	--	--	--	--	--
APR													
17...	.008	E.043	.033	E.040	--	K22	K68	K12	--	--	--	--	--
17...	.006	E.042	.029	E.050	--	--	--	--	--	--	--	--	--
MAY													
23...	<.006	.087	.063	.106	<10	100	220	200	30	254	.4	<8.00	<.10
JUN													
13...	.006	.089	.071	.119	--	90	160	180	--	--	--	--	--
AUG													
21...	E.005	.124	.099	.123	--	74	K140	140	--	--	--	--	--
SEP													
17...	E.004	.186	.171	.205	--	940	860	680	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
OCT							
12...	--	--	--	--	--	--	--
NOV							
29...	E2.7	20	.28	<1	5.2	<.14	16
29...	<4.7	<10	<.08	<1	<3.2	<.14	2
DEC							
12...	--	--	--	--	--	--	--
JAN							
17...	<4.7	M	.42	<1	11.3	<.14	8
17...	<4.7	10	.42	M	10.8	<.14	9
FEB							
06...	--	--	--	--	--	--	--
MAR							
19...	--	--	--	--	--	--	--
APR							
17...	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--
MAY							
23...	<5.0	20	.18	1	18.2	<.01	6
JUN							
13...	--	--	--	--	--	--	--
AUG							
21...	--	--	--	--	--	--	--
SEP							
17...	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

06918740 LITTLE SAC RIVER NEAR MORRISVILLE, MO

LOCATION.--Lat 37°28'58", long 93°29'07", in SW $^1/_4$ SW $^1/_4$ sec.20, T.32 N., R.23 W., Polk County, Hydrologic Unit 10290106, on downstream side of center pier of Hamilton Bridge on State Highway 215, 0.7 mi upstream from Slagle Creek, and 3 mi west of Morrisville.

DRAINAGE AREA.--237 mi^2.

PERIOD OF RECORD.--October 1968 to current year.

REVISED RECORDS.--WDR MO-84-1 1969-70, 1972-75, 1977-79, 1981, 1983 (P).

GAGE.--Water-stage recorder. Elevation of gage is 881 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	20	20	e8.9	159	511	78	41	48	153	156	25
2	9.1	21	19	e10	132	448	78	40	75	140	117	19
3	7.7	19	18	e13	118	395	81	39	1330	107	96	15
4	7.2	19	17	e17	107	353	78	38	738	96	83	13
5	7.3	16	16	e21	98	313	73	39	364	286	99	11
6	7.5	22	e15	e19	90	283	68	39	247	292	74	9.0
7	7.4	42	e16	e17	81	261	60	76	189	183	59	9.9
8	9.7	51	e15	e16	75	240	57	52	153	130	48	15
9	9.9	49	e14	e15	88	224	53	45	126	103	45	31
10	8.2	51	e15	e20	114	214	53	41	104	91	38	85
11	8.5	47	e14	e25	111	196	62	55	84	86	53	58
12	9.8	41	e13	e32	104	184	78	77	70	83	36	42
13	9.1	34	e12	e45	152	173	75	66	56	112	28	33
14	9.6	30	e11	72	265	160	62	50	62	87	25	29
15	11	28	e11	97	275	169	211	44	104	64	23	22
16	20	25	17	94	300	217	202	40	63	55	21	18
17	26	23	18	77	252	200	145	38	49	69	19	e16
18	29	22	e17	66	214	179	118	100	41	64	19	e25
19	23	19	e16	59	192	166	102	241	38	43	24	e21
20	17	17	e15	51	173	155	93	122	37	35	28	18
21	15	16	e14	46	156	149	82	221	468	33	26	16
22	14	15	e13	42	187	149	73	185	483	27	21	13
23	14	16	e13	39	307	136	70	130	272	25	19	13
24	13	16	e12	37	6330	123	62	100	200	22	21	11
25	12	18	e12	36	3030	115	55	81	158	22	21	10
26	12	20	e11	35	1170	102	52	65	137	23	17	10
27	18	24	e11	33	794	99	50	53	121	26	16	9.9
28	17	24	e10	37	616	95	47	46	117	158	14	9.3
29	19	23	e9.8	174	---	92	45	41	126	424	13	8.4
30	17	22	e9.5	296	---	88	43	43	260	343	12	7.7
31	16	---	e9.1	204	---	83	---	49	---	214	23	---
MEAN	13.4	26.3	14.0	56.6	560	202	80.2	74.1	211	116	41.7	20.8
MAX	29	51	20	296	6330	511	211	241	1330	424	156	85
MIN	7.2	15	9.1	8.9	75	83	43	38	37	22	12	7.7
IN.	.07	.12	.07	.28	2.46	.98	.38	.36	.99	.56	.20	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2001, BY WATER YEAR (WY)

MEAN	124	313	280	228	288	455	408	323	202	87.1	36.6	124
MAX	809	1256	1045	752	1139	1290	1409	1359	968	387	145	1691
(WY)	1987	1986	1988	1991	1985	1973	1994	1990	1995	2000	1988	1993
MIN	10.2	10.5	10.7	9.05	29.4	29.2	32.7	23.7	20.7	11.6	4.90	3.15
(WY)	1996	2000	1990	1981	1996	1996	1981	2000	1972	1980	1980	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1969 - 2001	
ANNUAL MEAN	63.8		115		238	
HIGHEST ANNUAL MEAN					516	1973
LOWEST ANNUAL MEAN					58.6	1977
HIGHEST DAILY MEAN	3040	Jul 12	6330	Feb 24	18600	Sep 25 1993
LOWEST DAILY MEAN	5.9	Sep 21	7.2	Oct 4	.60	Sep 15 1980
ANNUAL SEVEN-DAY MINIMUM	7.8	Sep 17	8.0	Oct 2	1.6	Aug 27 1980
MAXIMUM PEAK FLOW	---		8200	Feb 24	29100	Sep 25 1993
MAXIMUM PEAK STAGE	---		14.73	Feb 24	23.33	Sep 25 1993
INSTANTANEOUS LOW FLOW	---		6.8	Oct 4-6	.30	Sep 15 1980
ANNUAL RUNOFF (INCHES)	3.66		6.58		13.67	
10 PERCENT EXCEEDS	97		214		519	
50 PERCENT EXCEEDS	24		45		81	
90 PERCENT EXCEEDS	10		12		12	

e Estimated

06918990 STOCKTON LAKE NEAR STOCKTON, MO

LOCATION.--Lat 37°41'38", long 93°45'55", SW $^1/_4$ SE $^1/_4$ SW $^1/_4$ sec.10, T.34 N., R.26 W., Cedar County, Hydrologic Unit 10290106, in power house at dam on Sac River, 2 mi east of Stockton.

DRAINAGE AREA.--1,160 mi^2.

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Nonrecording gage prior to May 30, 1973. Datum of gage is sea level (levels by the U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by a rock shell earthfill type dam. Spillway is equipped with 4 taintor gates, 40 ft by 30.5 ft, crest elevation, 861.5 ft. Embankment closed and river diverted on Sept. 23, 1968. Gates closed and storage began on Dec. 12, 1969; minimum power elevation 830.0 ft reached on May 1, 1970. Gross storage at top of flood control pool is 1,666,659 ac-ft at elevation 892.0 ft, of which 779,550 ac-ft between elevations 867.0 ft and 892.0 ft is used for flood control, and 887,109 ac-ft between elevations 760.0 ft and 867.0 ft is used for multipurpose and power. Sedimentation reserve is 25,000 ac-ft. Lake is used for flood control, hydroelectric power, and recreational purposes. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records were provided by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,450,000 ac-ft, Apr. 28, 1973, elevation, 885.94 ft; minimum, since initial filling to minimum power pool level, 352,000 ac-ft, Aug. 27 to Sept. 4, 1970, elevation, 839.60 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 984,000 ac-ft, July 6, elevation, 871.25 ft; minimum, 722,000 ac-ft, Jan. 9, elevation, 860.45 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 200
OBSERVATION AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	861.60	861.46	861.15	860.62	861.37	866.93	868.38	867.91	868.85	871.08	867.75	863.18
2	861.57	861.46	861.16	860.57	861.40	867.15	868.39	867.91	868.81	871.10	867.60	863.17
3	861.57	861.43	861.16	860.52	861.43	867.27	868.28	867.93	869.40	871.12	867.41	862.99
4	861.50	861.44	861.13	860.51	861.48	867.39	868.22	867.93	869.65	871.14	867.25	862.84
5	861.46	861.45	861.12	860.50	861.56	867.50	868.13	867.97	869.74	871.23	867.08	862.76
6	861.39	861.35	861.14	860.50	861.59	867.62	868.04	868.06	869.80	871.25	866.88	862.75
7	861.34	861.33	861.10	860.50	861.66	867.70	868.05	868.08	869.85	871.11	866.69	862.80
8	861.32	861.33	861.11	860.50	861.72	867.78	868.09	868.10	869.89	871.03	866.52	862.80
9	861.31	861.36	861.12	860.45	861.79	867.87	868.03	868.11	869.93	870.80	866.34	862.85
10	861.28	861.35	861.05	860.46	861.85	867.95	867.92	868.12	869.94	870.68	866.17	862.85
11	861.26	861.37	860.92	860.48	861.90	868.03	868.07	868.25	869.96	870.54	866.00	862.83
12	861.25	861.35	860.93	860.52	861.83	867.94	867.69	868.29	869.97	870.42	866.00	862.74
13	861.27	861.34	861.00	860.56	861.98	867.87	867.54	868.31	869.97	870.44	865.84	862.64
14	861.27	861.34	861.00	860.58	862.09	867.94	867.49	868.32	870.20	870.31	865.67	862.63
15	861.24	861.36	861.01	860.63	862.25	868.09	867.44	868.33	870.34	870.17	865.51	862.61
16	861.42	861.31	860.95	860.59	862.34	868.16	867.50	868.33	870.37	870.09	865.33	862.60
17	861.39	861.26	860.99	860.64	862.46	868.27	867.51	868.35	870.40	869.91	865.19	862.63
18	861.39	861.27	860.96	860.65	862.60	868.34	867.55	868.51	870.37	869.74	865.09	862.61
19	861.38	861.24	860.96	860.67	862.60	868.39	867.62	868.56	870.27	869.60	864.97	862.61
20	861.38	861.22	860.95	860.70	862.67	868.46	867.67	868.61	870.49	869.40	864.80	862.60
21	861.38	861.24	860.82	860.71	862.78	868.52	867.68	868.63	870.85	869.26	864.62	862.57
22	861.37	861.21	860.76	860.72	862.73	868.57	867.76	868.67	870.96	869.11	864.42	862.57
23	861.37	861.22	860.73	860.71	863.01	868.57	867.76	868.65	871.05	868.92	864.25	862.51
24	861.38	861.22	860.74	860.71	865.06	868.60	867.78	868.65	871.10	868.71	864.15	862.51
25	861.38	861.19	860.73	860.71	866.03	868.62	867.79	868.71	871.12	868.51	863.97	862.49
26	861.38	861.20	860.74	860.69	866.48	868.63	867.84	868.70	871.02	868.41	863.81	862.48
27	861.39	861.20	860.74	860.70	866.70	868.61	867.89	868.67	870.93	868.33	863.64	862.45
28	861.38	861.18	860.72	860.83	866.74	868.47	867.90	868.68	870.95	868.29	863.45	862.42
29	861.39	861.18	860.73	861.09	---	868.39	867.88	868.65	871.04	868.21	863.30	862.41
30	861.38	861.19	860.72	861.22	---	868.32	867.89	868.73	871.07	868.05	863.30	862.40
31	861.38	---	860.68	861.30	---	868.34	---	868.71	---	867.90	863.18	---
MEAN	861.38	861.30	860.94	860.66	862.79	868.07	867.86	868.37	870.28	869.83	865.36	862.68
MAX	861.60	861.46	861.16	861.30	866.74	868.63	868.39	868.73	871.12	871.25	867.75	863.18
MIN	861.24	861.18	860.68	860.45	861.37	866.93	867.44	867.91	868.81	867.90	863.18	862.40
(-)	743000	739000	727000	741000	869000	908000	897000	918000	979000	897000	784000	766000
(=)	-6000	-4000	-12000	+14000	+128000	+39000	-11000	+21000	+61000	-82000	-113000	-18000

CAL YR 2000....-127000
WTR YR 2001....+ 17000

(-) Contents, in acre-feet, at the end of the month.
(=) Change in contents, in acre-feet.

06919020 SAC RIVER AT HIGHWAY J BELOW STOCKTON, MO

LOCATION.--Lat 37°44'07", long 93°46'47", in NW $^1/_4$ sec.4, T.34 N., R.26 W., Cedar County, Hydrologic Unit 10290106, on right bank on downstream side of bridge on State Highway J, 4.5 mi downstream from Bear Creek, 6.3 mi downstream from Stockton Lake, 3.0 mi north of Stockton, and at mile 44.9.

DRAINAGE AREA.--1,292 mi^2, approximately.

PERIOD OF RECORD.--October 1973 to current year. Occasional discharge measurements in water year 1973.

GAGE.--Water-stage recorder. Datum of gage is 750.19 ft above sea level.

REMARKS.--Records fair. Considerable regulation by Stockton Lake (station 06918990), 6.3 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	87	92	370	363	1040	132	81	108	171	1930	336
2	427	107	93	727	424	279	1180	81	137	159	1970	96
3	82	475	92	612	293	249	2140	79	249	152	2200	1260
4	241	270	93	108	155	228	1660	78	712	150	2110	1330
5	324	88	91	104	145	207	1600	78	339	1160	1950	1700
6	230	726	92	103	138	191	1880	78	225	703	2010	419
7	413	587	91	103	131	182	451	94	180	1480	2230	100
8	83	113	92	104	127	174	156	130	156	2120	2140	101
9	82	115	91	634	149	167	812	93	144	1950	2000	120
10	80	113	560	95	203	161	1890	83	131	2650	2070	112
11	80	115	686	92	170	156	1510	95	123	2060	1700	101
12	80	111	380	92	1120	1850	2460	105	116	1720	486	689
13	80	108	103	95	382	1370	2320	102	149	553	1220	911
14	80	105	100	102	252	172	1020	89	1220	1100	1880	302
15	82	103	100	105	254	219	2300	86	1630	1630	1700	103
16	715	101	101	532	249	441	247	83	417	1510	1580	101
17	679	442	100	124	205	293	123	82	261	2210	1800	100
18	373	101	98	115	180	234	112	84	206	2310	910	101
19	89	95	93	115	663	212	107	85	1000	2170	1350	100
20	86	94	96	111	178	198	105	88	1040	2060	1850	98
21	88	93	716	109	162	186	103	103	1050	2160	1830	99
22	85	94	1080	108	887	179	101	128	629	2300	2270	97
23	84	94	104	389	917	647	99	100	367	2210	2040	96
24	85	94	97	104	2790	178	100	97	284	2290	1960	96
25	86	571	96	396	1740	158	98	125	238	1910	1700	95
26	84	109	97	284	817	594	94	97	1160	2440	1730	95
27	89	95	97	97	804	852	91	94	2020	2170	1910	87
28	89	94	97	101	2910	1910	88	92	494	2500	1950	81
29	89	94	225	255	---	1400	86	477	252	2210	1660	77
30	85	93	100	430	---	1240	84	215	292	2320	326	84
31	86	---	441	532	---	416	---	109	---	2310	1010	---
MEAN	179	183	206	234	600	509	772	110	511	1704	1725	303
MAX	715	726	1080	727	2910	1910	2460	477	2020	2650	2270	1700
MIN	80	87	91	92	127	156	84	78	108	150	326	77
IN.	.16	.16	.18	.21	.48	.45	.67	.10	.44	1.52	1.54	.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2001, BY WATER YEAR (WY)

MEAN	642	850	1191	1196	1155	1486	1764	1624	1530	1180	950	801
MAX	4922	4697	3983	4464	2763	4230	4613	3403	4863	4726	2488	1949
(WY)	1994	1994	1986	1993	1988	1975	1974	1994	1990	1995	1992	1993
MIN	51.1	60.1	61.9	66.7	98.8	64.8	60.5	110	186	121	71.6	80.4
(WY)	1974	1981	1981	1981	1981	1977	1981	2001	1991	1977	1991	1991

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1974 - 2001	
ANNUAL MEAN	445		588		1197	
HIGHEST ANNUAL MEAN					2450	1994
LOWEST ANNUAL MEAN					256	1977
HIGHEST DAILY MEAN	2690	Apr 17	2910	Feb 28	12800	Sep 25 1993
LOWEST DAILY MEAN	80	Oct 10-14	77	Sep 29	25	Mar 25 1977
ANNUAL SEVEN-DAY MINIMUM	81	Oct 9	80	Apr 30	33	Oct 20 1973
MAXIMUM PEAK FLOW	---		6340	Jul 28	14800	Oct 1 1986
MAXIMUM PEAK STAGE	---		17.88	Jul 28	24.91	Feb 23 1985
INSTANTANEOUS LOW FLOW	---		75	Sep 29,30	24	Mar 25 1977
ANNUAL RUNOFF (INCHES)	4.69		6.18		12.59	
10 PERCENT EXCEEDS	1250		1950		3200	
50 PERCENT EXCEEDS	150		174		571	
90 PERCENT EXCEEDS	86		88		69	

06919500 CEDAR CREEK NEAR PLEASANT VIEW, MO

LOCATION.--Lat 37°50'03", long 93°52'31", in NE $^1/_4$ sec.2, T.35 N., R.27 W., Cedar County, Hydrologic Unit 10290106, on downstream side of right pier of bridge on State Highway 39, 1.5 mi north of Pleasant View, 1.8 mi downstream from Alder Creek, and 5.8 mi upstream from mouth.

DRAINAGE AREA.--420 mi^2, approximately.

PERIOD OF RECORD.--April 1923 to September 1926, October 1948 to current year.

REVISED RECORDS.--WSP 1146: 1923-26, drainage area. WSP 1176: 1924(M).

GAGE.--Water-stage recorder. Datum of gage is 739.46 ft above sea level. Apr. 22, 1923, to Sept. 30, 1926 and Oct. 1, 1948, to May 10, 1950, nonrecording gage at site 50 ft downstream at same datum; May 11, 1950, to Dec. 17, 1952, nonrecording gage, at present site and datum.

REMARKS.--Records fair except estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 27.7 ft, July 20, 1909, from floodmark.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	3.2	4.2	e4.6	463	554	103	44	203	237	52	2.1
2	.21	3.1	3.7	e4.8	299	462	111	41	538	136	32	2.1
3	.19	3.0	3.4	e5.0	218	383	484	37	697	102	22	2.1
4	.16	4.2	3.4	e5.4	182	319	564	34	2720	89	16	2.1
5	.15	4.8	3.5	e5.7	156	265	270	42	1740	280	12	1.9
6	.13	5.8	3.5	e6.0	132	226	206	45	632	148	9.5	1.7
7	.11	16	3.9	e8.8	117	201	173	42	377	79	7.9	1.7
8	.08	19	4.3	e12	276	183	146	51	257	59	6.6	2.4
9	.07	16	3.5	e14	1400	166	127	78	191	47	5.7	2.7
10	.07	15	3.5	e16	939	153	117	71	148	39	5.0	2.8
11	.06	15	3.9	e21	454	143	138	123	118	35	4.5	2.7
12	.05	12	e7.4	e26	286	140	244	512	95	36	4.2	2.4
13	.05	11	e10	e36	300	135	223	363	76	36	3.9	2.2
14	.05	13	e11	e54	1600	124	176	158	910	30	3.6	2.0
15	.06	20	e15	e77	1430	395	227	101	5900	25	3.1	1.8
16	.43	18	e12	e81	751	1620	777	73	2770	23	2.5	1.6
17	.77	15	e10	e70	513	978	364	56	598	25	2.4	1.6
18	1.2	13	e8.6	e60	344	533	212	50	333	28	2.3	1.7
19	38	11	e7.5	e50	278	403	166	660	220	31	2.0	1.7
20	43	10	e6.8	e44	239	340	144	477	414	22	1.7	1.7
21	23	9.0	e5.9	e36	202	286	126	244	1840	18	1.5	1.6
22	15	8.0	e5.6	e33	181	250	111	180	2110	16	1.3	1.6
23	12	7.7	e5.8	e27	183	222	101	e130	816	14	1.3	1.6
24	8.9	7.5	e5.2	e23	4130	194	91	e105	431	13	1.5	1.5
25	7.0	7.0	e5.0	e20	8300	169	82	80	288	14	1.9	1.4
26	4.5	6.2	e5.3	e17	4430	150	74	67	211	17	2.6	1.3
27	4.2	5.8	e5.8	e15	1000	137	67	56	166	21	2.5	1.2
28	3.4	5.3	e5.8	e27	705	129	63	48	164	24	2.4	1.2
29	2.9	4.2	e5.4	469	---	123	56	41	133	159	2.3	1.1
30	2.4	3.2	e4.9	2670	---	117	49	40	504	179	2.1	1.1
31	2.8	---	e4.8	991	---	109	---	76	---	102	2.1	---
MEAN	5.52	9.73	6.08	159	1054	310	193	133	853	67.2	7.11	1.82
MAX	43	20	15	2670	8300	1620	777	660	5900	280	52	2.8
MIN	.05	3.0	3.4	4.6	117	109	49	34	76	13	1.3	1.1
IN.	.02	.03	.02	.44	2.61	.85	.51	.37	2.27	.18	.02	.00

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	195	344	289	262	408	570	546	508	377	234	80.1	175
MAX	3055	1923	1490	1063	2307	2275	2766	2969	1753	2229	641	2033
(WY)	1987	1993	1993	1949	1985	1973	1994	1961	1981	1958	1950	1993
MIN	.000	.000	.058	.12	.14	.23	4.09	39.1	4.52	.029	.000	.000
(WY)	1954	1954	1954	1954	1954	1954	1956	1988	1991	1954	1954	1953

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	92.6		226		331	
HIGHEST ANNUAL MEAN					807	1993
LOWEST ANNUAL MEAN					16.0	1954
HIGHEST DAILY MEAN	1730	Jun 21	8300	Feb 25	26200	Jul 17 1958
LOWEST DAILY MEAN	.00	Sep 7-11,21,22	.05	Oct 12-14	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	.01	Sep 6	.06	Oct 9	.00	Many Years
MAXIMUM PEAK FLOW	---		8990	Feb 25	37000	Jul 17 1958
MAXIMUM PEAK STAGE	---		20.53	Feb 25	27.36	Apr 12 1994
INSTANTANEOUS LOW FLOW	---		.05	Oct 12-15	.00	Many Years
ANNUAL RUNOFF (INCHES)	3.00		7.31		10.71	
10 PERCENT EXCEEDS	243		472		670	
50 PERCENT EXCEEDS	15		32		72	
90 PERCENT EXCEEDS	.20		1.7		1.2	

e Estimated

06919900 SAC RIVER NEAR CAPLINGER MILLS, MO

LOCATION.--Lat 37°52'12", long 93°48'11", in NW $^1/_4$ NE $^1/_4$ SW $^1/_4$ sec.21, T.36 N., R.26 W., St. Clair County, Hydrologic Unit 10290106, on right downstream wingwall of bridge on State Highway W, 1.5 mi downstream from Cedar Creek, and 5.0 mi north of Caplinger Mills.

DRAINAGE AREA.--1,810 mi^2.

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 720.82 ft above sea level.

REMARKS.--Records good. Some regulation from Stockton Lake (station 06918990). U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	109	108	581	1340	2620	325	153	340	646	2030	1220
2	554	109	105	947	652	1040	776	143	926	420	2140	154
3	212	153	103	776	937	895	2670	138	1200	338	2140	327
4	132	721	102	251	462	785	2640	134	4180	306	2470	1680
5	393	143	102	147	409	685	2400	136	2920	3210	2080	1700
6	199	125	101	138	372	608	2260	149	1190	1800	1920	1450
7	620	1370	101	134	341	558	1480	147	762	864	2360	155
8	201	182	101	133	429	517	437	156	560	2090	2390	134
9	141	162	101	616	1830	483	389	187	447	1820	2130	126
10	109	151	480	261	1480	452	2160	205	371	2520	2300	136
11	95	148	286	142	862	428	1650	237	312	2040	1840	131
12	90	145	1110	134	1210	1700	2960	586	266	2030	1560	131
13	87	138	162	138	1380	2280	3320	607	228	1580	425	936
14	86	135	133	156	2030	700	1760	333	2370	842	1870	974
15	91	135	125	168	2190	676	2550	243	11500	1760	1740	139
16	109	137	123	564	1290	2530	1780	197	4960	1520	1550	117
17	1020	389	119	301	960	1760	725	175	1210	2020	2220	112
18	781	263	121	200	723	1090	471	165	742	2380	1220	110
19	190	136	115	185	1090	855	391	644	630	2430	1120	107
20	194	123	113	174	657	720	349	707	2380	2220	1710	105
21	141	115	109	166	506	622	320	422	3100	2310	2000	104
22	119	112	954	162	932	568	291	376	3610	2510	2490	100
23	108	112	282	331	1960	872	274	316	1570	2480	2150	98
24	107	111	132	302	6850	671	250	251	912	2160	2200	95
25	104	421	122	161	12400	435	230	214	676	2050	1840	95
26	101	371	121	697	7440	846	218	195	579	2630	1800	94
27	104	135	119	175	2120	1170	204	178	2370	2280	2040	94
28	106	122	117	168	4000	1700	195	165	1850	2690	2020	91
29	100	114	111	559	---	1960	182	151	611	2900	1960	84
30	101	110	117	3410	---	1480	168	620	1530	2390	1350	79
31	102	---	167	1740	---	1220	---	276	---	2960	272	---
MEAN	215	223	199	452	2030	1062	1128	278	1810	1942	1850	363
MAX	1020	1370	1110	3410	12400	2620	3320	707	11500	3210	2490	1700
MIN	86	109	101	133	341	428	168	134	228	306	272	79
IN.	.14	.14	.13	.29	1.17	.68	.70	.18	1.12	1.24	1.18	.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2001, BY WATER YEAR (WY)

MEAN	1235	1463	1691	1493	1761	2261	2489	2392	2059	1428	1044	1013
MAX	11070	5392	5838	5487	5202	5630	6805	5782	7046	5283	2850	5283
(WY)	1987	1994	1986	1993	1985	1985	1994	1995	1995	1995	1992	1993
MIN	61.1	66.7	56.6	53.5	101	82.7	76.3	278	241	170	77.3	103
(WY)	1981	1981	1981	1981	1981	1981	1981	2001	1991	1988	1991	1991

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1975 - 2001	
ANNUAL MEAN	564		955		1693	
HIGHEST ANNUAL MEAN					3267	1994
LOWEST ANNUAL MEAN					399	1977
HIGHEST DAILY MEAN	2280	Feb 1	12400	Feb 25	51200	Oct 2 1986
LOWEST DAILY MEAN	86	Oct 14	79	Sep 30	34	Aug 25 1999
ANNUAL SEVEN-DAY MINIMUM	95	Oct 10	90	Sep 24	47	Oct 7 1980
MAXIMUM PEAK FLOW	---		13400	Feb 25	61500	Apr 12 1994
MAXIMUM PEAK STAGE	---		20.14	Feb 25	30.95	Apr 12 1994
INSTANTANEOUS LOW FLOW	---		79	Sep 30	33	Aug 24 1999
ANNUAL RUNOFF (INCHES)	4.24		7.16		12.71	
10 PERCENT EXCEEDS	1370		2360		4090	
50 PERCENT EXCEEDS	324		428		969	
90 PERCENT EXCEEDS	108		109		94	

06921070 POMME DE TERRE RIVER NEAR POLK, MO

LOCATION.--Lat 37°40'56", long 93°22'12", in NE $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec.17, T.34 N., R.22 W., Polk County, Hydrologic Unit 10290107, on right bank 150 ft upstream from Jefferson Bridge on State Highway D, and 5 mi southwest of Polk.

DRAINAGE AREA.--276 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 872.61 ft above sea level.

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	63	e13	e11	339	541	74	41	37	141	129	15
2	6.7	198	e12	e12	249	477	99	39	87	126	96	14
3	6.5	39	e11	e14	199	420	133	37	988	81	75	13
4	6.4	26	e10	e15	172	370	92	38	1030	88	68	12
5	6.2	21	e13	18	148	316	90	36	479	2440	59	12
6	6.2	46	e12	19	129	276	81	36	286	791	48	12
7	6.3	72	e11	21	115	246	75	94	184	411	42	11
8	6.2	48	e10	24	102	223	70	60	132	258	37	15
9	6.0	53	e9.5	28	158	200	65	44	100	178	34	41
10	5.9	55	e12	32	187	181	63	38	81	134	33	248
11	5.9	51	e11	39	203	167	86	46	67	117	33	100
12	5.9	45	e10	50	175	158	82	50	58	780	30	57
13	5.8	40	e19	68	278	145	73	43	51	685	28	40
14	5.7	36	e21	107	576	130	65	37	323	353	28	32
15	6.0	32	e19	155	587	156	96	34	327	226	26	27
16	44	29	e17	147	645	244	234	31	119	169	24	24
17	87	26	e15	119	461	218	159	28	74	143	22	23
18	28	23	e13	96	352	177	117	32	56	116	52	21
19	18	21	e12	81	295	157	96	283	48	94	63	20
20	14	20	e11	71	252	143	85	102	53	76	36	19
21	12	19	e10	62	215	131	79	271	167	64	27	17
22	9.9	18	e13	57	232	124	73	201	576	54	22	15
23	9.2	18	e12	52	392	116	71	98	241	46	20	14
24	8.5	18	e11	49	9160	106	64	69	145	41	19	13
25	8.5	21	e10	45	3980	95	58	57	103	38	18	13
26	8.5	23	e9.5	43	1070	87	54	48	78	68	17	12
27	12	20	e12	40	785	82	50	42	63	172	16	12
28	26	e18	e11	44	636	81	48	37	52	357	14	11
29	21	e16	e10	494	---	79	45	34	202	611	14	11
30	17	e14	e9.5	701	---	77	42	35	196	326	39	11
31	16	---	e10	504	---	75	---	40	---	188	22	---
MEAN	14.0	37.6	12.2	104	789	193	84.0	67.1	213	302	38.4	29.5
MAX	87	198	21	701	9160	541	234	283	1030	2440	129	248
MIN	5.7	14	9.5	11	102	75	42	28	37	38	14	11
IN.	.06	.15	.05	.43	2.98	.81	.34	.28	.86	1.26	.16	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2001, BY WATER YEAR (WY)

MEAN	152	362	327	270	346	531	522	379	228	94.6	41.1	158
MAX	1094	1408	1488	822	1496	1673	1978	1422	1252	450	154	2348
(WY)	1987	1986	1983	1991	1985	1973	1994	1995	1995	2000	1985	1993
MIN	8.88	9.94	8.94	10.8	42.5	43.4	26.8	23.5	15.9	4.16	2.72	1.70
(WY)	1979	1990	1990	1977	1981	1996	1981	2000	1988	1980	1980	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1969 - 2001	
ANNUAL MEAN	71.9		153		284	
HIGHEST ANNUAL MEAN					554	1993
LOWEST ANNUAL MEAN					85.6	2000
HIGHEST DAILY MEAN	9260	Jul 12	9160	Feb 24	24300	Sep 25 1993
LOWEST DAILY MEAN	3.1	Sep 22	5.7	Oct 14	.30	Aug 10 1980
ANNUAL SEVEN-DAY MINIMUM	3.7	Sep 17	5.9	Oct 9	.34	Aug 9 1980
MAXIMUM PEAK FLOW	---		13300	Feb 24	34300	Sep 24 1993
MAXIMUM PEAK STAGE	---		17.38	Feb 24	27.10	Sep 24 1993
INSTANTANEOUS LOW FLOW	---		5.7	Oct 11-15	.30	Aug 10 1980
ANNUAL RUNOFF (INCHES)	3.54		7.51		13.96	
10 PERCENT EXCEEDS	103		290		575	
50 PERCENT EXCEEDS	26		50		86	
90 PERCENT EXCEEDS	6.4		11		10	

e Estimated

06921070 POMME DE TERRE RIVER NEAR POLK, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1983 to February 1986, November 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV 27...	1105	ENVIRONMENTAL	20	12.8	99.8	8.2	448	5.0	244	47.2	30.7	3.03
JAN 18...	0830	ENVIRONMENTAL	97	15.0	104	7.8	354	.5	--	--	--	--
MAR 19...	1230	ENVIRONMENTAL	149	14.7	128	8.4	375	9.2	--	--	--	--
MAY 23...	1100	ENVIRONMENTAL	99	7.5	80.1	8.1	367	18.0	182	38.3	21.1	4.18
SEP 17...	1100	ENVIRONMENTAL	23	5.9	68.9	7.9	301	20.8	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV 27...	5.8	211	216	264	0	10.3	E.1	11.1	<10	247	<.041	.32	E.029
JAN 18...	--	189	191	234	0	--	--	--	--	--	<.041	.20	1.35
MAR 19...	--	166	165	191	5	--	--	--	--	--	<.041	.21	.812
MAY 23...	4.9	164	164	201	0	9.5	E.1	7.3	16	210	<.040	.57	.426
SEP 17...	--	135	136	165	0	--	--	--	--	--	<.040	.42	.149

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV 27...	<.006	<.060	E.010	E.044	19	K8	45	37	4	30	.4	<8.00	<.11
JAN 18...	.009	<.060	<.018	<.060	--	K7	K18	37	--	--	--	--	--
MAR 19...	E.004	<.060	<.018	<.060	--	K6	28	K10	--	--	--	--	--
MAY 23...	.022	.090	.050	.095	16	280	K400	350	107	208	1.0	<8.00	<.10
SEP 17...	E.004	.072	.060	.108	--	140	140	780	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV 27...	<4.7	20	E.06	<1	17.7	<.14	1	1
JAN 18...	--	--	--	--	--	--	--	--
MAR 19...	--	--	--	--	--	--	--	--
MAY 23...	<5.0	90	.16	M	21.0	<.01	2	2
SEP 17...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

06921200 LINDLEY CREEK NEAR POLK, MO

LOCATION.--Lat 37°45'02", long 93°15'58", in NE $^1/_4$ SE $^1/_4$ sec.29, T.35 N., R.21 W., Polk County, Hydrologic Unit 10290107, on left bank 30 ft upstream from county highway bridge, 0.5 mi downstream from Panther Creek, 2.5 mi northeast of Polk, and 11 mi upstream from Ingalls Creek.

DRAINAGE AREA.--112 mi^2.

PERIOD OF RECORD.--April 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 884.08 ft above sea level. Prior to Sept. 25, 1957, nonrecording gage at site 30 ft downstream at same datum.

REMARKS.--Records fair except for estimated daily discharges and those below 5 ft^3/s, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	74	6.5	e3.5	112	131	31	9.0	50	13	77	.47
2	.00	190	5.9	e3.4	88	116	48	8.1	476	9.5	54	.44
3	.00	41	5.2	e3.3	78	103	112	7.1	989	7.3	39	.44
4	.00	19	5.0	4.2	71	92	64	7.9	490	69	35	.42
5	.00	10	4.9	4.7	63	80	54	7.0	245	239	28	.40
6	.00	47	4.8	5.8	58	73	49	7.1	161	98	18	.39
7	.00	73	4.9	8.4	52	70	45	37	119	45	13	.37
8	.00	44	4.6	13	49	65	39	26	84	25	9.6	.37
9	.00	57	4.5	17	115	60	35	14	56	15	8.2	.37
10	.00	58	4.4	18	96	57	33	8.7	40	53	6.7	3.4
11	.00	41	4.5	21	76	54	59	23	31	94	5.4	3.2
12	.00	31	4.1	32	69	54	60	35	23	785	5.0	2.0
13	.00	23	5.0	52	89	51	42	19	16	272	4.0	1.6
14	.00	16	6.4	75	167	45	36	12	301	138	3.4	1.3
15	.00	13	6.0	59	192	83	40	8.0	327	87	2.9	1.2
16	1.1	11	e5.4	42	152	145	38	6.1	98	61	2.6	1.1
17	68	8.4	e4.9	33	106	90	31	4.7	43	48	2.0	1.3
18	14	7.3	e4.5	27	93	75	27	105	27	33	1.7	1.7
19	6.3	6.5	e4.2	24	87	69	26	270	17	23	1.4	1.6
20	5.3	5.7	e3.9	21	78	63	25	65	25	16	1.1	1.4
21	5.7	4.8	e3.8	17	70	58	23	153	350	12	.93	1.5
22	4.2	4.4	e5.0	15	71	57	21	74	204	8.6	.76	1.4
23	4.3	5.1	e4.7	14	265	55	24	37	107	6.4	.71	1.3
24	4.0	6.2	e4.3	14	4110	49	20	26	68	5.0	.70	1.1
25	3.8	8.2	e3.9	12	857	43	17	25	46	4.8	.76	1.0
26	4.1	8.9	e3.7	12	269	41	15	20	32	209	.74	.93
27	7.1	9.0	e4.8	11	192	38	13	14	23	370	.71	.90
28	11	8.2	e4.5	15	151	37	12	10	19	611	.62	.94
29	11	7.3	e4.3	476	---	37	11	8.1	37	421	.55	1.1
30	8.2	6.6	e3.9	296	---	35	9.9	19	21	198	.52	1.1
31	6.2	---	e3.7	162	---	33	---	100	---	117	.48	---
MEAN	5.30	28.2	4.72	48.8	281	66.4	35.3	37.6	151	132	10.5	1.16
MAX	68	190	6.5	476	4110	145	112	270	989	785	77	3.4
MIN	.00	4.4	3.7	3.3	49	33	9.9	4.7	16	4.8	.48	.37
IN.	.05	.28	.05	.50	2.62	.68	.35	.39	1.50	1.36	.11	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2001, BY WATER YEAR (WY)

MEAN	79.4	109	116	97.0	131	192	182	157	79.7	37.5	14.3	54.6
MAX	812	566	526	358	764	855	903	843	421	534	100	1134
(WY)	1987	1986	1983	1973	1985	1973	1994	1961	1985	1958	1958	1993
MIN	.000	.037	.38	.75	1.49	15.9	4.86	6.04	.73	.081	.000	.000
(WY)	1977	1964	1964	1964	1964	1996	1981	2000	1988	1980	1980	1960

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1957 - 2001	
ANNUAL MEAN	17.0		65.2		104	
HIGHEST ANNUAL MEAN					247	1993
LOWEST ANNUAL MEAN					18.8	2000
HIGHEST DAILY MEAN	577	Jul 12	4110	Feb 24	12000	Oct 1 1986
LOWEST DAILY MEAN	.00	Aug 18-Oct 15	.00	Oct 1-15	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 18	.00	Oct 1	.00	Many Years
MAXIMUM PEAK FLOW	---		5930	Feb 24	31900	Oct 1 1986
MAXIMUM PEAK STAGE	---		14.85	Feb 24	23.60	May 5 1961
INSTANTANEOUS LOW FLOW	---		.00	Oct 1-16	.00	Many Years
ANNUAL RUNOFF (INCHES)	2.07		7.91		12.57	
10 PERCENT EXCEEDS	55		118		184	
50 PERCENT EXCEEDS	5.1		17		25	
90 PERCENT EXCEEDS	.00		.93		.47	

e Estimated

06921325 POMME DE TERRE LAKE NEAR HERMITAGE, MO

LOCATION.--Lat 37°54'06", long 93°19'05", in NE $^1/_4$ sec.2, T.36 N., R.22 W., Hickory County, Hydrologic Unit 10290107, in intake tower at dam on Pomme de Terre River, 3.0 mi southwest of Hermitage.

DRAINAGE AREA.--611 mi^2.

PERIOD OF RECORD.--June 1960 to current year.

GAGE.--Water-stage recorder. Nonrecording gage prior to Nov. 9, 1961. Datum of gage is sea level (levels by the U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by earthfill embankment with a concrete gravity section-type dam. Closure operation began on June 28, 1960; conservation pool level reached June 15, 1963. Capacity at top of flood control pool, 648,700 ac-ft at elevation 874.0 ft, crest of spillway, of which 407,200 ac-ft between elevations 839.0 ft and 874.0 ft is used for flood control, and 228,700 ac-ft between elevation 783.0 ft and 839.0 ft is used for conservation and 12,840 ac-ft below elevation 783.0 ft is sediment storage. Lake is used for flood control and recreational purposes. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records were provided by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 506,000 ac-ft, Sept. 27, 1993, elevation, 864.58 ft; minimum, since initial filling to conservation pool level, 216,000 ac-ft, Mar. 3, 1964, elevation, 835.61 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 314,000 ac-ft, Feb. 27, elevation 847.85 ft; minimum, 236,000 ac-ft, Oct. 14, elevation, 838.81 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	839.20	839.06	839.55	839.03	840.83	847.46	840.87	841.07	841.79	841.79	842.58	839.20
2	839.17	839.28	839.53	839.03	840.96	847.18	840.86	841.06	841.96	841.59	842.40	839.17
3	839.14	839.39	839.51	839.01	841.05	846.86	841.11	841.04	842.15	841.39	842.20	839.15
4	839.11	839.41	839.49	839.00	841.13	846.53	841.25	841.08	843.52	841.26	842.00	839.13
5	839.09	839.42	839.45	839.01	841.20	846.15	841.30	841.07	844.21	841.38	841.81	839.10
6	839.07	839.47	839.44	839.01	841.24	845.79	841.37	841.08	844.22	842.49	841.56	839.15
7	839.03	839.54	839.42	839.00	841.30	845.40	841.44	841.19	844.13	842.64	841.34	839.13
8	838.99	839.56	839.39	839.00	841.34	845.02	841.45	841.18	844.00	842.52	841.11	839.20
9	838.97	839.61	839.37	839.00	841.39	844.60	841.46	841.18	843.83	842.35	840.88	839.21
10	838.94	839.64	839.35	839.01	841.46	844.18	841.50	841.18	843.69	842.19	840.63	839.19
11	838.91	839.67	839.33	839.04	841.45	843.75	841.54	841.25	843.57	842.03	840.40	839.21
12	838.87	839.70	839.30	839.09	841.44	843.35	841.65	841.25	843.40	842.08	840.17	839.20
13	838.85	839.70	839.28	839.14	841.40	842.93	841.72	841.25	843.18	842.90	839.93	839.19
14	838.81	839.66	839.32	839.18	841.51	842.46	841.66	841.25	842.96	842.89	839.81	839.16
15	838.83	839.69	839.31	839.23	841.69	842.27	841.61	841.25	843.87	842.77	839.71	839.15
16	838.84	839.69	839.30	839.28	841.79	842.35	841.54	841.25	843.87	842.61	839.64	839.12
17	839.05	839.68	839.28	839.33	841.90	842.32	841.48	841.25	843.72	842.45	839.55	839.10
18	839.07	839.71	839.27	839.38	841.93	842.19	841.40	841.13	843.53	842.26	839.52	839.13
19	839.08	839.71	839.25	839.41	841.95	842.04	841.31	841.31	843.32	842.07	839.48	839.13
20	839.07	839.71	839.23	839.43	841.93	841.87	841.26	841.47	843.13	841.96	839.46	839.11
21	839.07	839.71	839.20	839.45	841.81	841.68	841.26	841.58	843.16	841.95	839.43	839.08
22	839.05	839.71	839.19	839.47	841.66	841.52	841.22	841.67	843.30	841.90	839.39	839.07
23	839.04	839.68	839.17	839.48	841.50	841.36	841.23	841.70	843.25	841.80	839.36	839.03
24	839.03	839.65	839.15	839.50	842.59	841.26	841.17	841.70	843.13	841.69	839.33	839.00
25	839.03	839.69	839.12	839.50	846.88	841.18	841.13	841.72	842.93	841.60	839.33	838.98
26	839.01	839.69	839.10	839.50	847.70	841.09	841.12	841.70	842.74	841.89	839.31	838.95
27	839.02	839.69	839.09	839.52	847.85	841.00	841.11	841.70	842.54	841.93	839.28	838.93
28	839.02	839.60	839.07	839.53	847.72	840.91	841.10	841.69	842.34	842.09	839.26	838.90
29	839.02	839.59	839.05	839.68	---	840.85	841.10	841.68	842.16	842.69	839.24	838.87
30	839.00	839.58	839.04	840.30	---	840.84	841.09	841.73	841.99	842.84	839.24	838.85
31	839.00	---	839.03	840.63	---	840.86	---	841.78	---	842.74	839.22	---
MEAN	839.01	839.60	839.28	839.33	842.38	843.14	841.31	841.37	843.19	842.15	840.21	839.09
MAX	839.20	839.71	839.55	840.63	847.85	847.46	841.72	841.78	844.22	842.90	842.58	839.21
MIN	838.81	839.06	839.03	839.00	840.83	840.84	840.86	841.04	841.79	841.26	839.22	838.85
(-)	237000	242000	238000	250000	313000	252000	254000	260000	262000	268000	239000	236000
(=)	-2000	+5000	-4000	+12000	+63000	-61000	+2000	+6000	+2000	+6000	-29000	-3000

CAL YR 2000.... 0
WTR YR 2001....-3000

(-) Contents, in acre-feet, at the end of the month.
(=) Change in contents, in acre-feet.

06921350 POMME DE TERRE RIVER NEAR HERMITAGE, MO

LOCATION.--Lat 37°54'20", long 93°19'45", in NW $^1/_4$ NW $^1/_4$ sec.2, T.36 N., R.22 W., Hickory County, Hydrologic Unit 10290107, on right bank 2,000 ft downstream from outlet of Pomme de Terre Lake, 2.5 mi southwest of Hermitage, 4.5 mi upstream from Green Branch, and at mile 43.4.

DRAINAGE AREA.--615 mi^2.

PERIOD OF RECORD.--August 1960 to current year.

GAGE.-- Water-stage recorder. Datum of gage is 749.33 ft above sea level.

REMARKS.--Records good. Flow regulated by Pomme de Terre Lake (station 06921325), 0.5 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREME FOR PERIOD OF RECORD.--Maximum discharge, 9,000 ft^3/s, May 9, 1961; gage height, 15.02 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	51	102	41	42	1970	86	107	90	973	963	43
2	56	51	102	41	42	1960	90	106	97	973	961	43
3	55	51	101	40	41	1950	90	106	108	972	961	43
4	54	51	101	40	42	1950	88	105	436	972	958	43
5	55	51	102	40	42	1950	89	101	979	985	956	43
6	54	52	102	40	42	1940	89	98	978	499	956	43
7	53	51	101	40	42	1930	90	101	978	640	953	43
8	53	51	102	40	166	1930	91	103	977	968	953	43
9	52	52	102	40	470	1920	92	100	976	966	951	45
10	51	51	102	40	465	1920	92	97	974	969	949	43
11	50	51	102	40	463	1910	95	100	974	966	948	43
12	50	51	102	40	462	1910	92	93	973	1000	947	43
13	49	51	102	40	463	1910	289	91	973	973	655	43
14	49	51	102	40	469	1400	511	91	1000	972	330	43
15	49	51	100	40	464	995	511	90	986	970	331	43
16	50	51	101	40	463	995	511	90	981	969	331	43
17	49	51	102	40	463	991	511	89	979	967	241	43
18	49	51	101	40	463	989	511	89	978	965	91	43
19	49	51	102	40	462	989	405	88	978	732	91	43
20	50	51	101	40	696	988	261	89	984	209	90	43
21	50	76	101	40	1020	987	262	90	982	158	91	43
22	50	102	102	40	1020	986	264	88	982	452	91	43
23	50	102	100	40	1020	737	267	88	981	454	91	43
24	50	102	101	40	1070	487	269	87	980	455	91	43
25	50	102	101	40	1060	487	209	87	979	457	91	43
26	50	102	100	40	1050	487	101	87	979	476	91	43
27	51	102	100	40	1470	487	108	87	978	458	64	43
28	50	102	100	41	1980	419	111	87	977	464	42	43
29	50	102	73	44	---	247	111	87	978	459	42	43
30	50	102	41	42	---	84	109	88	975	731	42	43
31	50	---	41	41	---	85	---	94	---	964	42	---
MEAN	51.1	67.2	96.5	40.3	570	1225	214	93.7	873	747	464	43.1
MAX	57	102	102	44	1980	1970	511	107	1000	1000	963	45
MIN	49	51	41	40	41	84	86	87	90	158	42	43
IN.	.10	.12	.18	.08	.96	2.30	.39	.18	1.58	1.40	.87	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2001, BY WATER YEAR (WY)

MEAN	325	557	632	505	574	877	855	872	598	363	120	135
MAX	3116	2872	2886	2042	2100	3487	2948	4799	2157	2349	480	1110
(WY)	1994	1987	1986	1993	1975	1985	1984	1961	1985	1995	1978	1993
MIN	13.1	7.50	20.5	20.4	21.5	24.6	26.8	26.4	31.9	26.0	18.6	1.27
(WY)	1969	1977	1963	1962	1963	1963	1963	1963	1969	1970	1961	1960

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1960 - 2001	
ANNUAL MEAN	134		373		534	
HIGHEST ANNUAL MEAN					1163	1973
LOWEST ANNUAL MEAN					67.8	1963
HIGHEST DAILY MEAN	1020	Jul 14	1980	Feb 28	9000	May 9 1961
LOWEST DAILY MEAN	41	Dec 30,31	40	Jan 3-27	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	47	Feb 9	40	Jan 3	.00	At Times
MAXIMUM PEAK FLOW	---		2020	Feb 27	5910	May 5 1970
MAXIMUM PEAK STAGE	---		7.40	Feb 27	12.15	May 5 1970
INSTANTANEOUS LOW FLOW	---		40	Jan 3-27	.00	Several Years
ANNUAL RUNOFF (INCHES)	2.97		8.23		11.81	
10 PERCENT EXCEEDS	224		982		1940	
50 PERCENT EXCEEDS	68		101		104	
90 PERCENT EXCEEDS	49		42		44	

06921582 SOUTH GRAND RIVER BELOW FREEMAN, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 38°35'20", long 94°26'30", in NW $^1/_4$ NW $^1/_4$ NE $^1/_4$ sec.27, T.44 N., R.32 W., Cass County, Hydrologic Unit 10290108. Access is on the left bank on upstream side of bridge on gravel road, approximately 2 mi south of State Highway 2, approximately 6.1 mi southwest of Harrisonville, and 4 mi southeast of Freeman.

DRAINAGE AREA.--150 mi^2.

PERIOD OF RECORD.--October 1997 to current year. Published as "South Grand River at Grand River Church" water years 1998 to 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT												
19...	1115	ENVIRONMENTAL	2.1	4.9	49	7.7	632	14.5	--	--	--	--
NOV												
20...	1015	ENVIRONMENTAL	2.4	12.6	99	8.0	655	4.5	220	69.5	10.8	6.41
DEC												
12...	1230	ENVIRONMENTAL	1.7	17.6	123	8.3	726	.5	--	--	--	--
JAN												
16...	1105	ENVIRONMENTAL	10	12.8	91	8.0	833	.5	240	75.9	11.5	8.14
16...	1106	BLANK	--	--	--	--	--	--	--	E.01	<.008	<.09
MAR												
01...	1345	ENVIRONMENTAL	94	13.0	98	8.0	433	2.0	--	--	--	--
21...	1020	ENVIRONMENTAL	84	12.7	113	8.2	465	9.0	--	--	--	--
APR												
11...	1310	ENVIRONMENTAL	648	6.6	76	8.0	290	19.5	--	--	--	--
MAY												
09...	1200	ENVIRONMENTAL	32	8.1	91	8.1	473	19.5	200	65.6	7.97	3.85
JUN												
21...	1145	ENVIRONMENTAL	952	6.4	74	7.9	279	21.0	--	--	--	--
JUL												
18...	1245	ENVIRONMENTAL	8.3	6.3	83	8.0	678	28.0	240	76.4	11.4	4.85
AUG												
14...	1145	ENVIRONMENTAL	1.8	6.2	78	8.1	712	26.0	--	--	--	--
SEP												
06...	1210	ENVIRONMENTAL	1.1	5.1	63	8.0	441	24.5	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT													
19...	--	129	129	158	0	--	--	--	--	--	.077	.80	1.86
NOV													
20...	51.2	168	168	205	0	25.3	.3	126	<10	423	<.041	.50	.335
DEC													
12...	--	194	194	237	0	--	--	--	--	--	<.041	1.0	.408
JAN													
16...	83.5	166	166	203	0	56.7	.4	150	22	519	E.024	.57	3.57
16...	<.1	--	--	--	--	<.1	<.2	<.1	<10	<10	--	--	--
MAR													
01...	--	141	140	171	0	--	--	--	--	--	E.029	.74	3.11
21...	--	155	157	191	0	--	--	--	--	--	<.041	.63	2.35
APR													
11...	--	109	110	134	0	--	--	--	--	--	.088	2.6	.809
MAY													
09...	19.9	173	173	211	0	18.9	.3	39.4	73	322	<.041	.67	.717
JUN													
21...	--	115	113	138	0	--	--	--	--	--	E.030	3.1	.494
JUL													
18...	51.6	181	182	223	0	20.2	.3	130	56	404	<.040	.51	.435
AUG													
14...	--	190	191	232	0	--	--	--	--	--	<.040	.62	.064
SEP													
06...	--	134	134	163	0	--	--	--	--	--	<.040	.81	.631

06921582 SOUTH GRAND RIVER BELOW FREEMAN, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITROGEN, NITRITE DISSOLVED (mg/L as N) (00613)	PHOSPHORUS DISSOLVED (mg/L as P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) (00671)	PHOSPHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEMICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	ARSENIC DISSOLVED (µg/L as As) (01000)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
19...	.054	.273	.220	.362	--	190	190	160	--	--	--	--	--
NOV													
20...	E.005	.118	.081	.128	14	47	69	98	21	157	1.8	<8.00	<.11
DEC													
12...	E.004	.087	.042	.151	--	K2	K10	K18	--	--	--	--	--
JAN													
16...	.018	.409	.400	.543	11	K74	65	240	6	565	2.2	<8.00	.12
16...	--	--	--	--	<10	--	--	--	4	5	<.2	<8.00	<.11
MAR													
01...	.017	.075	.058	.123	--	240	290	440	--	--	--	--	--
21...	.013	E.047	.036	.118	--	K67	110	160	--	--	--	--	--
APR													
11...	.031	.088	.051	.813	--	K29000	K28000	15000	--	--	--	--	--
MAY													
09...	.030	.089	.044	.185	18	450	870	270	6	1040	1.7	<8.00	E.07
JUN													
21...	.024	.066	.022	1.12	--	10000	K9000	31000	--	--	--	--	--
JUL													
18...	E.005	.063	.051	.126	16	K1	K1600	150	5	795	1.8	<8.00	E.07
AUG													
14...	<.006	E.056	.044	.122	--	K2	130	K46	--	--	--	--	--
SEP													
06...	.028	E.051	.038	.175	--	K240	K400	980	--	--	--	--	--

DATE	COPPER, DISSOLVED (µg/L as Cu) (01040)	IRON, DISSOLVED (µg/L as Fe) (01046)	LEAD, DISSOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOVERABLE (µg/L as Pb) (01051)	MANGANESE, DISSOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOVERABLE (µg/L as Hg) (71900)	ZINC, DISSOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOVERABLE (µg/L as Zn) (01092)	2,6-DIETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETOCHLOR, WATER FLTRD REC (µg/L) (49260)	ALACHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DISSOLVED (µg/L) (34253)	ATRAZINE, WATER, DISS, REC (µg/L) (39632)
OCT													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
20...	<4.7	40	<.08	<1	62.3	<.14	3	3	<.002	<.004	<.002	<.005	.027
DEC													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
16...	<4.7	10	.12	M	169	<.14	9	11	--	--	--	--	--
16...	<4.7	<10	<.08	<1	<3.2	<.14	2	2	--	--	--	--	--
MAR													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	<.002	<.004	<.002	<.005	.018
APR													
11...	--	--	--	--	--	--	--	--	<.002	<.004	.005	<.005	.042
MAY													
09...	<4.7	<10	.09	2	58.9	<.01	<1	7	<.002	.020	.010	<.005	.161
JUN													
21...	--	--	--	--	--	--	--	--	<.002	.022	<.002	<.005	.615
JUL													
18...	<5.0	<10	<.08	2	28.5	<.01	2	8	<.002	<.004	<.002	<.005	.207
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--

06921582 SOUTH GRAND RIVER BELOW FREEMAN, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL-ATE, WATER, DISS, REC (µg/L) (04028)	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (µg/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)	DI-ELDRIN DIS-SOLVED (µg/L) (39381)	DISUL-FOTON WATER FLTRD 0.7µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7µ GF, REC (µg/L) (82663)
OCT													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
20...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.006	.013	<.005	<.021	<.002	<.009
DEC													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	<.010	<.002	E.004	<.020	<.005	<.018	<.003	E.008	E.002	<.005	<.021	<.002	<.009
APR													
11...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.013	.146	<.005	<.021	<.002	<.009
MAY													
09...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.028	.023	<.005	<.021	<.002	<.009
JUN													
21...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.074	.027	<.005	<.021	<.002	<.009
JUL													
18...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.040	.010	<.005	<.021	<.002	<.009
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ETHO-PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS-SOLVED (µg/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA-THION, DIS-SOLVED (µg/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA-THION, DIS-SOLVED (µg/L) (39542)
OCT													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
20...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.003	<.006	<.002	<.007	<.003	<.007
DEC													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.002	<.006	<.002	<.007	<.003	<.007
APR													
11...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.011	<.006	<.002	<.007	<.003	<.007
MAY													
09...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.025	<.006	<.002	<.007	<.003	<.007
JUN													
21...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.034	<.006	<.002	<.007	<.003	<.007
JUL													
18...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.025	<.006	<.002	<.007	<.003	<.007
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--

06921582 SOUTH GRAND RIVER BELOW FREEMAN, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PEBULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDIMETHALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PERMETHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PROMETON, WATER, DISS, REC (µg/L) (04037)	PRONAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPACHLOR, WATER, DISS, REC (µg/L) (04024)	PROPANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PROPARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SIMAZINE, WATER, DISS, REC (µg/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TERBACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TERBUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)
OCT													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
20...	<.002	<.010	<.006	<.011	.029	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
DEC													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
APR													
11...	<.002	<.020	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
MAY													
09...	<.002	<.010	<.006	<.011	E.013	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
JUN													
21...	<.002	.019	<.006	<.011	E.009	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
JUL													
18...	<.002	<.010	<.006	<.011	E.009	<.004	<.010	<.011	<.023	E.004	<.016	<.034	<.017
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	THIOENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIALLATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRIFLURALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)
OCT			
19...	--	--	--
NOV			
20...	<.005	<.002	<.009
DEC			
12...	--	--	--
JAN			
16...	--	--	--
16...	--	--	--
MAR			
01...	--	--	--
21...	<.005	<.002	<.009
APR			
11...	<.005	<.002	E.005
MAY			
09...	<.005	<.002	<.009
JUN			
21...	<.005	<.002	<.009
JUL			
18...	<.005	<.002	<.009
AUG			
14...	--	--	--
SEP			
06...	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

06921760 SOUTH GRAND RIVER NEAR CLINTON, MO

LOCATION.--Lat 38°22'16", long 93°51'23", in NW $^1/_4$ SW $^1/_4$ SE $^1/_4$ sec.1, T.41 N., R.27 W., Henry County, Hydrologic Unit 10290108 at right upstream end of bridge on State Highway 18, 4.4 mi west of Clinton, and 5.4 mi downstream from Big Creek.

DRAINAGE AREA.--1,270 mi^2.

PERIOD OF RECORD.--July 1985 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above sea level. Auxiliary water-stage recorder 3.3 mi upstream from base gage at same datum.

REMARKS.--Discharge is calculated using fall computations due to backwater from Harry S Truman Reservoir. Water-discharge records poor. U.S. Army Corps of Engineers satellite telemeter at base and auxiliary gage.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	e11	12	11	762	1530	317	219	720	763	358	367
2	23	e10	11	11	371	1270	302	197	e2200	675	230	255
3	20	e9.5	e10	10	239	1190	309	178	e6000	600	168	171
4	18	e9.0	e9.6	10	146	1110	1380	217	e11500	453	138	130
5	19	e10	e9.2	10	106	979	4610	263	24700	345	111	108
6	17	14	e8.8	10	86	807	4380	213	32000	309	91	88
7	15	12	8.6	10	79	627	2310	187	42200	235	71	78
8	13	11	9.6	9.7	75	509	1410	228	33400	214	59	74
9	11	10	10	11	537	440	1040	236	19100	187	57	66
10	11	17	11	9.9	1890	386	895	225	14600	166	53	62
11	11	41	e10	11	2120	354	1460	618	11200	e150	51	63
12	10	64	11	13	1340	346	2620	1110	8290	e350	49	67
13	11	58	12	14	873	339	2790	753	5970	1490	47	64
14	9.8	58	12	17	680	365	1670	494	4380	1590	46	59
15	9.4	55	13	17	666	452	1210	370	8930	993	46	54
16	12	32	13	20	650	3640	1970	287	10500	624	43	49
17	9.4	30	13	30	509	10500	1810	223	6800	388	40	49
18	e10	25	13	39	374	5200	1210	567	4790	237	42	65
19	22	16	13	39	293	2060	887	2760	3440	152	41	539
20	20	12	13	35	240	1380	698	3530	4340	106	42	1080
21	11	e10	14	31	208	1070	572	3050	12500	83	45	663
22	10	e9.0	13	28	179	896	487	6230	15900	70	46	391
23	11	e8.0	13	26	163	761	424	4130	13500	63	46	260
24	10	e9.0	13	24	827	663	409	1730	9240	48	57	197
25	e9.0	12	12	23	7180	593	418	1000	6470	49	212	162
26	e8.6	9.8	11	22	14000	496	382	647	4720	174	257	139
27	e8.2	12	11	21	6850	434	328	481	3230	566	243	121
28	e8.0	13	11	22	2450	401	289	389	2150	603	213	108
29	e10	13	12	50	---	367	262	329	1370	1390	149	96
30	e12	11	12	775	---	342	240	300	948	1090	122	86
31	e12	---	12	1140	---	329	---	443	---	591	240	---
MEAN	13.1	20.4	11.5	80.6	1568	1285	1236	1019	10840	476	110	190
MAX	26	64	14	1140	14000	10500	4610	6230	42200	1590	358	1080
MIN	8.0	8.0	8.6	9.7	75	329	240	178	720	48	40	49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

MEAN	868	1148	976	576	1087	1417	2083	2594	1950	1137	325	746
MAX	8670	4031	4455	2815	5191	4613	5186	8536	10840	10610	1455	3861
(WY)	1999	1993	1993	1993	1997	1990	1994	1995	2001	1993	1989	1998
MIN	13.1	20.4	11.5	65.5	77.8	44.5	128	116	33.8	99.4	18.8	14.6
(WY)	2001	2001	2001	1996	1996	1996	2000	1988	1988	1994	1999	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1987 - 2001	
ANNUAL MEAN	324		1384		1329	
HIGHEST ANNUAL MEAN					2996	1993
LOWEST ANNUAL MEAN					318	1992
HIGHEST DAILY MEAN	11200	Jun 22	42200	Jun 7	62300	Oct 1 1986
LOWEST DAILY MEAN	8.0	Oct 28,Nov 23	8.0	Oct 28,Nov 23	8.0	Oct 28,Nov 23 2000
ANNUAL SEVEN-DAY MINIMUM	9.3	Oct 22	9.3	Oct 22	9.3	Oct 22 2000
10 PERCENT EXCEEDS	704		3120		2800	
50 PERCENT EXCEEDS	66		174		221	
90 PERCENT EXCEEDS	11		10		36	

e Estimated

06922440 HARRY S TRUMAN RESERVOIR AT WARSAW, MO

LOCATION.-- Lat 38°15'30", long 93°23'40", in NW $^1/_4$ NE $^1/_4$ sec.7, T.40 N., R.22 W., Benton County, Hydrologic Unit 10290105, in control room near middle of dam on Osage River, 1.5 mi northwest of Warsaw, and at mile 175.

DRAINAGE AREA.--11,500 mi^2.

PERIOD OF RECORD.--October 1981 to current year. Records collected at same site since 1977 are available from U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by the U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by a rolled earthfill type dam. Storage began on July 21, 1977. Spillway is equipped with 4 tainter gates 40 ft wide by 47.3 ft high. Capacity of surcharge pool 2,911,000 ac-ft (elevation 739.6 ft to 751.1 ft); of flood control pool 4,006,000 ac-ft (elevation 706.0 ft to 739.6 ft); and of multipurpose pool 1,203,000 ac-ft (elevation 635.0 ft to 706.0). Lake is used for flood control, hydroelectric power, recreation, and fish and wildlife enhancement. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records were provided by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 5,020,000 ac-ft, Oct. 11, 12, 1986, elevation, 738.69 ft, Oct. 11, 1986; minimum, 41,700 ac-ft, Nov. 14, 1978, elevation, 661.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,195,000 ac-ft, June 11, elevation, 719.32 ft; minimum, 1,101,000 ac-ft, Dec. 22, elevation, 704.50 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
OBSERVATION AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	705.07	704.93	704.86	704.62	706.01	711.91	708.08	706.27	707.33	713.97	708.02	706.00
2	705.06	704.95	704.85	704.61	706.30	711.59	707.92	706.07	707.99	713.24	707.62	706.01
3	705.01	704.95	704.87	704.66	706.44	711.24	708.25	705.89	709.29	712.35	707.10	706.02
4	705.01	704.96	704.89	704.71	706.52	710.82	708.58	705.65	711.37	711.54	706.65	706.05
5	705.04	705.01	704.87	704.71	706.54	710.14	708.54	705.54	712.68	710.95	706.23	705.98
6	705.02	705.15	704.82	704.71	706.56	709.42	708.53	705.61	714.62	710.28	705.77	706.05
7	705.02	705.15	704.72	704.73	706.60	708.72	708.39	705.61	716.44	709.78	705.48	706.13
8	705.03	705.18	704.71	704.73	706.91	708.56	708.10	705.64	717.74	709.37	705.57	706.08
9	705.04	705.20	704.69	704.71	707.45	708.38	708.08	705.67	718.62	708.84	705.67	706.09
10	705.07	705.22	704.66	704.71	707.90	708.35	708.14	705.56	719.25	708.53	705.77	706.08
11	705.07	705.24	704.75	704.72	708.39	708.26	708.34	705.85	719.32	708.15	705.86	705.99
12	705.02	705.27	704.63	704.71	708.56	708.17	708.53	706.01	718.69	708.66	705.94	705.88
13	705.05	705.28	704.72	704.70	708.69	708.08	708.53	706.15	717.81	708.42	705.96	705.82
14	705.05	705.26	704.72	704.72	708.71	708.08	708.47	706.17	718.30	708.55	705.98	705.82
15	705.07	705.28	704.72	704.73	708.75	708.14	708.28	706.01	718.92	708.69	706.13	705.82
16	705.06	705.28	704.77	704.73	708.68	708.76	708.01	705.84	718.75	708.06	706.13	705.82
17	705.05	705.27	704.71	704.74	708.45	709.42	707.98	705.73	718.36	707.66	706.18	705.86
18	705.07	705.28	704.74	704.76	708.20	710.00	707.96	705.84	717.82	707.23	706.23	705.93
19	705.07	705.30	704.59	704.73	707.90	709.99	707.93	706.10	717.10	706.74	706.23	705.94
20	705.03	705.18	704.58	704.74	707.62	709.90	707.87	706.69	717.06	706.75	706.25	706.02
21	705.02	705.12	704.53	704.71	707.65	709.60	707.83	707.03	717.03	706.83	706.33	706.13
22	705.01	705.04	704.50	704.69	707.55	709.26	707.77	706.96	717.66	706.88	706.23	706.22
23	704.99	705.04	704.56	704.70	707.57	708.74	707.73	706.96	718.09	706.60	706.15	706.24
24	704.99	705.05	704.56	704.72	709.14	708.66	707.65	706.97	718.34	706.33	706.28	706.26
25	704.99	705.07	704.56	704.70	710.70	708.50	707.57	706.77	717.95	706.71	706.44	706.28
26	704.96	705.09	704.58	704.75	711.76	708.38	707.49	706.95	717.28	707.79	706.50	706.32
27	704.97	705.04	704.59	704.76	711.97	708.32	707.30	706.92	716.62	707.85	706.39	706.36
28	704.94	705.03	704.63	704.89	712.02	708.24	707.17	706.97	715.98	708.35	706.06	706.39
29	704.95	704.94	704.63	705.20	---	708.17	706.96	706.67	715.37	708.76	705.82	706.41
30	704.91	704.87	704.63	705.50	---	708.10	706.43	706.65	714.72	708.75	705.93	706.43
31	704.87	---	704.63	705.80	---	708.12	---	706.93	---	708.42	705.93	---
MEAN	705.02	705.12	704.69	704.79	708.20	709.10	707.95	706.25	716.22	708.74	706.22	706.08
MAX	705.07	705.30	704.89	705.80	712.02	711.91	708.58	707.03	719.32	713.97	708.02	706.43
MIN	704.87	704.87	704.50	704.61	706.01	708.08	706.43	705.54	707.33	706.33	705.48	705.82
(-)	1120000	1120000	1108000	1170000	1570000	1306000	1205000	1233000	1780000	1324000	1177000	1205000
(=)	-10000	0	-12000	+62000	+400000	-264000	-101000	+28000	+547000	-456000	-140000	+20000

CAL YR 2000....-142000
WTR YR 2001....+ 75000

(-) Contents, in acre-feet, at the end of the month.
(=) Change in contents, in acre-feet.

06922450 OSAGE RIVER BELOW HARRY S TRUMAN DAM AT WARSAW, MO

LOCATION.--Lat 38°15'41", long 93°24'16", NE $^1/_4$ SW $^1/_4$ sec.17, T.40 N., R.22 W., Benton County, Hydrologic Unit 10290109, on right bank 2,000 ft below Harry S Truman Dam and 1.5 mi northwest of Warsaw.

DRAINAGE AREA.--11,500 mi^2, with 7,856 mi^2 uncontrolled area below other reservoirs.

PERIOD OF RECORD.--May 1978 to current year.

GAGE.--Acoustic flow monitor. Datum of gage is sea level (levels by the U.S. Army Corps of Engineers).

REMARKS.--Records not published prior to 1982 water year due to test period of acoustic flow monitor which included periods of unreliable record. Flow completely regulated by Harry S. Truman Dam (station 06922440), 2,000 ft upstream. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records were provided by the U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	1890	28900	4010	4340	0	34200	16000	250
2	775	0	0	975	950	32200	8650	6100	0	33300	15900	250
3	1650	0	0	0	0	29200	4460	5150	0	31900	17000	250
4	250	0	0	0	0	28200	4090	7930	7150	34700	16500	250
5	1510	0	0	0	592	30500	14300	4350	8790	33300	14300	4150
6	0	0	2130	0	929	31100	12300	563	1890	30000	15300	250
7	0	0	2110	0	621	31000	12700	0	0	19900	10000	250
8	0	0	0	267	0	11600	13900	0	0	16800	500	250
9	0	0	962	667	2720	11400	4440	0	52	20400	500	250
10	0	0	0	629	533	7070	6290	3700	250	16100	500	250
11	0	0	0	625	0	6760	8340	1500	16900	15600	500	2500
12	0	0	2590	279	8360	9160	15300	0	42300	14800	500	2750
13	0	0	0	1210	8300	7670	15200	0	50600	15900	500	1700
14	0	0	0	0	10200	6770	15200	2160	41100	250	500	250
15	0	0	713	0	10100	9670	16500	6010	28000	250	500	250
16	0	0	0	600	11700	9180	16200	5580	30100	22600	500	250
17	0	0	0	688	13100	8700	8620	6730	30400	16000	500	250
18	0	0	1060	0	12900	10100	6130	3550	30700	15900	500	125
19	0	0	2900	1190	13400	23300	5170	0	35000	16500	500	450
20	0	2210	0	304	10700	23500	5520	0	28500	2290	375	0
21	0	1780	1900	975	6340	24300	5230	14200	25800	250	250	0
22	0	2120	629	1190	4790	24800	4580	12200	0	250	4580	0
23	0	0	0	0	6090	24100	4150	12600	4050	10800	4540	0
24	0	0	0	0	0	10200	4100	8690	6920	9720	250	0
25	0	0	0	604	0	10200	4180	8330	25900	8510	492	0
26	1390	0	656	0	7630	7590	4180	0	35600	9220	250	0
27	0	1380	0	0	25900	6980	4200	0	35800	12900	5100	0
28	2950	1450	0	0	27800	7860	4880	0	35600	2590	11000	0
29	0	1430	0	925	---	8150	6440	10100	35400	2560	9350	0
30	3210	1430	0	658	---	6080	16100	9850	33600	12000	250	0
31	3580	---	0	1560	---	4060	---	0	---	17400	250	---
MEAN	494	393	505	431	6627	15820	8512	4311	19680	15380	4764	498
MAX	3580	2210	2900	1560	27800	32200	16500	14200	50600	34700	17000	4150
MIN	0	0	0	0	0	4060	4010	0	0	250	250	0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2001[a], BY WATER YEAR (WY)

MEAN	9636	10590	12370	7974	8678	13900	14430	16490	16530	9452	5435	3542
MAX	52090	42250	43020	32520	20050	44920	32720	48830	48240	43150	28320	18300
(WY)	1987	1987	1993	1993	1982	1985	1984	1994	1995	1995	1993	1993
MIN	.000	23.8	83.6	431	933	864	253	966	585	551	367	135
(WY)	1996	1996	1996	2001	1996	1996	1996	2000	1988	1991	1991	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1982 - 2001[a]	
ANNUAL MEAN	2723		6441		11040	
HIGHEST ANNUAL MEAN					18760	1993
LOWEST ANNUAL MEAN					2516	1991
HIGHEST DAILY MEAN	25000	Jul 2	50600	Jun 13	71100	Oct 20 1986
LOWEST DAILY MEAN	0	Many Days	0	Many Days	0	Most Years

[a] Post-regulation period.

06923700 NIANGUA RIVER BELOW BENNETT SPRINGS, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°44'17", long 92°51'37", in NE $^1/_4$ SE $^1/_4$ SE $^1/_4$ sec.25, T.35 N., R.18 W., Dallas County, Hydrologic Unit 10290110, at bridge on Highway 64, 1,200 ft downstream from inflow of Bennett Spring Branch.

PERIOD OF RECORD.--October 1983 to September 1988, July 1991 to current year.

REMARKS.--Ambient Water-Quality Monitoring Network station October 1983 to September 1988, November 1993 to current year. Special project station July 1991 to October 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
20...	1045	ENVIRONMENTAL	119	11.6	104	7.8	385	10.6	220	45.5	27.0	.94
JAN												
08...	1130	ENVIRONMENTAL	109	11.4	101	8.0	397	10.3	--	--	--	--
MAR												
26...	1055	ENVIRONMENTAL	198	12.2	112	7.5	341	11.2	--	--	--	--
MAY												
24...	0900	ENVIRONMENTAL	497	7.0	70	7.7	320	15.4	160	33.8	19.4	2.05
24...	0901	REPLICATE	--	--	--	--	--	--	160	32.6	18.6	1.93
JUL												
10...	1140	ENVIRONMENTAL	193	8.1	95	7.5	327	20.6	--	--	--	--
SEP												
06...	1035	ENVIRONMENTAL	122	8.6	92	7.5	371	17.4	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
20...	3.2	205	208	254	0	4.1	--	4.4	<10	223	<.041	.11	.534
JAN													
08...	--	216	217	265	0	--	--	--	--	--	E.021	.10	.596
MAR													
26...	--	151	152	186	0	--	--	--	--	--	<.041	.14	1.16
MAY													
24...	3.5	146	146	178	0	5.4	<.2	5.8	<10	182	E.024	.24	.833
24...	3.2	--	--	--	--	6.0	<.2	5.8	11	186	<.040	.28	.808
JUL													
10...	--	155	156	190	0	--	--	--	--	--	E.023	.27	.719
SEP													
06...	--	178	180	219	0	--	--	--	--	--	<.040	.14	E.781

06923700 NIANGUA RIVER BELOW BENNETT SPRINGS, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
20...	.006	<.060	<.018	<.060	<10	K12	K29	K18	10	78	E.2	<8.00	<.11
JAN													
08...	.006	<.060	E.013	<.060	--	K2	K9	K2	--	--	--	--	--
MAR													
26...	.009	<.060	<.018	<.060	--	K1	K2	K2	--	--	--	--	--
MAY													
24...	.007	E.040	.023	E.049	110	300	220	460	90	162	.4	<8.00	<.10
24...	.008	E.043	.027	E.058	110	--	--	--	61	162	.3	<8.00	<.10
JUL													
10...	E.005	E.032	E.015	<.060	--	320	K340	K700	--	--	--	--	--
SEP													
06...	E.009	<.060	E.009	<.060	--	40	46	29	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV							
20...	<4.7	M	E.04	<1	6.3	<.14	1
JAN							
08...	--	--	--	--	--	--	--
MAR							
26...	--	--	--	--	--	--	--
MAY							
24...	<5.0	70	.15	<1	15.7	<.01	2
24...	<5.0	50	.15	<1	16.0	<.01	2
JUL							
10...	--	--	--	--	--	--	--
SEP							
06...	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

06923950 NIANGUA RIVER AT TUNNEL DAM NEAR MACKS CREEK, MO

LOCATION.--Lat 37°56'14", long 92°51'03", in SE $^1/_4$ SW $^1/_4$ SW $^1/_4$ sec.19, T.37 N., R.17 W., Camden County, Hydrologic Unit 10290110, at left end of concrete structure on top of Tunnel Dam, 6.5 mi southeast of Macks Creek.

DRAINAGE AREA.--598 mi^2.

PERIOD OF RECORD.--September 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records good. Diversion upstream through tunnel for power generation. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	185	181	172	186	605	134	222	228	217	172	164
2	159	216	181	170	250	360	224	218	365	188	141	158
3	159	195	178	173	130	260	291	213	1030	153	133	155
4	154	191	178	170	112	179	182	211	2040	123	101	153
5	156	185	176	171	130	217	181	210	1650	154	135	149
6	151	204	177	172	103	232	154	220	597	306	117	144
7	146	200	178	175	99	192	177	182	317	158	120	139
8	145	225	175	177	128	212	172	165	259	137	162	155
9	146	241	177	181	120	185	173	217	236	110	158	166
10	148	243	175	185	124	159	170	212	232	149	204	163
11	150	241	184	199	289	148	202	234	179	175	201	161
12	140	234	178	209	300	146	158	257	158	474	190	191
13	149	223	218	230	207	163	163	248	163	519	187	210
14	154	212	204	260	142	135	145	235	186	231	184	186
15	166	207	194	288	235	141	143	226	171	143	181	170
16	258	191	200	207	267	181	130	215	209	127	178	159
17	340	186	198	196	292	223	140	216	197	139	176	161
18	301	179	197	206	236	237	158	686	149	121	172	167
19	255	174	192	198	147	209	151	1870	139	147	167	157
20	216	171	189	254	128	180	130	1830	145	120	165	151
21	182	170	187	249	156	158	146	527	141	97	164	161
22	172	168	179	167	128	145	182	596	232	189	168	155
23	164	169	182	154	143	123	199	329	229	177	168	162
24	160	171	176	194	2590	118	127	243	203	178	169	156
25	158	196	174	194	8720	109	135	310	141	174	168	151
26	161	193	177	194	5410	105	150	251	146	717	162	148
27	162	194	178	184	1870	133	243	192	148	142	161	147
28	162	190	177	198	1020	117	182	145	231	270	159	147
29	161	188	178	220	---	115	224	286	155	1020	165	145
30	160	187	177	333	---	124	226	268	225	564	162	145
31	168	---	173	311	---	137	---	237	---	259	165	---
MEAN	176	198	183	206	845	185	173	370	350	248	163	159
MAX	340	243	218	333	8720	605	291	1870	2040	1020	204	210
MIN	140	168	173	154	99	105	127	145	139	97	101	139
IN.	.34	.37	.35	.40	1.47	.36	.32	.71	.65	.48	.31	.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2001, BY WATER YEAR (WY)

MEAN	206	375	207	160	437	558	637	577	220	160	161	195
MAX	492	1345	357	317	845	1458	1696	1599	370	248	385	462
(WY)	1999	1997	1997	1999	2001	1998	1999	1999	1999	2001	1997	1996
MIN	59.8	66.8	130	56.9	39.2	47.9	106	28.1	55.4	54.8	43.9	110
(WY)	1998	1998	1998	1997	1996	1996	2000	1997	1996	1997	1996	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1995 - 2001	
ANNUAL MEAN	149		267		325	
HIGHEST ANNUAL MEAN					555	1999
LOWEST ANNUAL MEAN					143	2000
HIGHEST DAILY MEAN	1130	Jul 13	8720	Feb 25	14500	Nov 8 1996
LOWEST DAILY MEAN	52	Mar 10	97	Jul 21	.00	Oct 18 1997
ANNUAL SEVEN-DAY MINIMUM	78	Feb 28	117	Feb 4	8.1	Sep 25 1997
MAXIMUM PEAK FLOW	---		10200	Feb 25	15200[a]	Nov 8 1996
MAXIMUM PEAK STAGE	---		11.62	Feb 25	14.19	Nov 8 1996
INSTANTANEOUS LOW FLOW	---		63	Jan 22	.00	Oct 18 1997
ANNUAL RUNOFF (INCHES)	3.38		6.07		7.38	
10 PERCENT EXCEEDS	196		276		531	
50 PERCENT EXCEEDS	146		177		129	
90 PERCENT EXCEEDS	93		137		35	

[a] From rating curve extended above 10,500 ft^3/s.

06925500 LAKE OF THE OZARKS NEAR BAGNELL, MO

LOCATION.--Lat 38°12'19", long 92°37'21", in SE $^1/_4$ sec.19, T.40 N., R.15 W., Miller County, Hydrologic Unit 10290111, at left end of powerhouse section near left end of Bagnell Dam on Osage River, 2 mi southwest of Bagnell, and at mile 81.7.

DRAINAGE AREA.--14,000 mi^2.

PERIOD OF RECORD.--April 1931 to current year. Gage-height records collected at same site since 1932 and are contained in reports of the National Weather Service, published as "Osage River at Bagnell Dam, Lakeside".

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum, adjustment of 1912. To obtain sea level subtract 0.88 ft.

REMARKS.--Lake is formed by concrete gravity dam. Spillway is equipped with 12 taintor gates 34 ft wide by 22 ft high. Storage began in 1931. Usable capacity 1,218,000 ac-ft between elevation 630.00 ft (maximum draw-down) and 660.00 ft (top of gates). Dead storage, 708,800 ac-ft. Figures given herein are usable contents. Lake is used for flood control, power, and recreational purposes.

COOPERATION.--Records were provided by the Union Electric Company of Missouri.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,527,000 ac-ft, May 22, 1943, elevation, 665.45 ft; minimum, 322,100 ac-ft, Feb. 13, 1948, elevation, 639.95 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,218,000 ac-ft, July 17, 18, elevation, 660.00 ft; minimum, 948,000 ac-ft, Jan. 1, 7, and 8, elevation, 655.04 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
OBSERVATION AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	655.64	655.97	656.10	655.04	655.80	655.74	657.24	658.82	659.40	658.86	659.70	658.37
2	655.65	655.98	656.08	655.07	655.85	655.80	657.25	659.02	659.33	659.00	659.70	658.36
3	655.60	655.97	656.07	655.07	655.89	655.91	657.20	659.17	659.05	658.97	659.84	658.27
4	655.60	655.93	656.04	655.07	655.91	656.00	657.18	659.29	659.05	659.15	659.86	658.25
5	656.66	655.92	656.01	655.07	655.94	656.12	657.00	659.38	658.53	659.21	659.78	658.18
6	655.64	656.00	656.08	655.07	655.97	656.38	656.40	659.45	658.70	659.05	659.80	658.07
7	655.62	655.98	656.15	655.04	656.00	656.48	656.00	659.47	658.60	659.20	659.45	657.93
8	655.60	655.96	656.15	655.04	656.10	655.95	656.20	659.45	658.59	658.95	658.85	657.98
9	655.57	655.94	656.16	655.06	656.30	655.65	655.69	659.43	658.60	659.00	658.66	658.03
10	655.49	655.93	656.16	655.07	656.33	655.63	655.80	659.53	658.60	659.00	658.64	658.01
11	655.46	655.92	656.10	655.10	656.35	655.91	656.20	659.45	658.25	658.90	658.62	658.07
12	655.44	655.91	656.17	655.11	656.37	655.83	656.50	659.44	658.39	659.17	658.60	658.12
13	655.42	655.89	656.20	655.20	656.30	655.88	656.86	659.43	658.97	659.45	658.60	658.13
14	655.41	655.87	656.20	655.22	656.53	656.12	657.20	659.37	659.68	659.53	658.58	658.11
15	655.42	655.85	656.20	655.23	656.55	656.50	657.85	659.47	659.76	659.59	658.58	658.09
16	655.56	655.83	656.24	655.24	656.58	656.70	657.95	659.47	659.68	659.93	658.58	658.07
17	655.56	655.81	656.20	655.27	656.94	656.50	657.75	659.50	659.50	660.00	658.57	658.09
18	655.56	655.80	656.07	655.27	657.33	656.70	657.52	659.60	659.32	660.00	658.57	658.15
19	655.55	655.79	655.95	655.32	657.52	656.73	657.20	659.57	659.34	659.92	658.57	658.12
20	655.56	655.85	655.72	655.33	657.48	656.70	656.78	659.70	659.22	659.46	658.55	658.14
21	655.55	655.90	655.55	655.36	657.40	656.68	656.91	659.75	659.21	659.40	658.52	658.13
22	655.55	655.92	655.54	655.40	656.95	656.68	657.12	659.62	659.12	659.32	658.66	658.11
23	655.54	655.94	655.52	655.38	656.45	656.85	657.20	659.50	659.17	659.53	658.84	658.10
24	655.53	655.94	655.38	655.37	656.99	657.00	657.20	659.45	658.82	659.50	658.85	658.08
25	655.52	655.96	655.12	655.38	656.59	657.15	657.36	659.33	658.38	659.40	658.84	658.06
26	655.55	655.96	655.13	655.37	656.04	656.70	657.52	659.08	658.49	659.47	658.82	658.04
27	655.56	655.98	655.12	655.35	655.85	656.50	657.64	658.97	658.60	659.50	658.90	657.99
28	655.64	656.02	655.11	655.43	655.91	656.60	657.80	658.91	658.75	659.74	658.80	657.97
29	655.64	656.06	655.10	655.50	---	656.70	658.03	658.78	658.79	659.96	658.75	657.95
30	655.77	656.10	655.07	655.55	---	656.90	658.65	659.62	658.82	659.87	658.40	657.93
31	655.90	---	655.05	655.63	---	657.07	---	659.70	---	659.81	658.38	---
MEAN	655.61	655.93	655.80	655.25	656.44	656.39	657.11	659.38	658.96	659.41	658.90	658.10
MAX	656.66	656.10	656.24	655.63	657.52	657.15	658.65	659.75	659.76	660.00	659.86	658.37
MIN	655.41	655.79	655.05	655.04	655.80	655.63	655.69	658.78	658.25	658.86	658.38	657.93
(-)	992000	1002000	948000	978000	993000	1054000	1141000	1201000	1151000	1207000	1125000	1100000
(=)	+12000	+10000	-54000	+30000	+15000	+61000	+87000	+60000	-50000	+56000	-82000	-25000

CAL YR 2000....-227000
WTR YR 2001....+120000

(-) Contents, in acre-feet, at end of month.
(=) Change in contents, in acre-feet.

06926000 OSAGE RIVER NEAR BAGNELL, MO

LOCATION.--Lat 38°11'29", long 92°36'26", in NW $^1/_4$ NE $^1/_4$ SE $^1/_4$ sec.29, T.40 N., R.15 W., Miller County, Hydrologic Unit 10290111, on center pier of U.S. Highway 54 bridge, 1.3 mi downstream from hydroelectric plant of Union Electric Company of Missouri, and at mile 80.5.

DRAINAGE AREA.--14,000 mi^2, approximately.

PERIOD OF RECORD.--October 1880 to current year. Monthly discharge only for some periods published in WSP 1310. Gage-height records collected in this vicinity 1880-1931 are contained in reports of the Missouri River Commission or the National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 549.13 ft above sea level (levels by the Missouri State Highway and Transportation Commission). Nonrecording gage from October 1880 to Oct. 15, 1930, and recording gage from Oct. 15, 1930, to Sept. 30, 1979, at site 1.7 mi downstream at datum 0.56 ft lower.

REMARKS.--Records fair. Flow regulated by Lake of the Ozarks (station 06925500), 1.3 mi upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximim stage prior to 1943, 43.1 ft in June 1844 (former site and datum), discharge, 164,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	504	521	492	502	842	34700	511	492	14400	32900	19500	660
2	441	515	792	598	523	33400	7540	1220	14900	32900	17500	653
3	2260	511	547	510	527	26400	17600	2430	20500	33000	13300	2580
4	1070	1390	987	504	1010	28300	15600	4400	35200	33000	16200	904
5	395	706	946	491	506	28500	20900	3010	35200	33000	16600	4840
6	426	516	694	489	512	26300	30300	668	28800	33100	16100	3400
7	505	506	608	1040	522	30800	27100	554	13500	23000	22100	5040
8	498	1040	487	590	513	27900	12400	1010	5170	22000	17000	1400
9	495	698	685	488	2600	21600	15400	974	2840	18000	7170	711
10	2060	490	533	495	3040	10500	5840	1210	1800	20100	1920	742
11	508	465	1840	496	1090	651	6370	6000	16800	18500	609	670
12	487	466	1660	507	7870	9330	10200	1680	34600	20400	562	1940
13	497	474	754	521	12000	6980	8830	507	34900	13400	606	1670
14	496	492	501	512	6680	3310	9100	3790	35200	1180	593	744
15	500	490	493	511	9330	5340	1870	4120	35300	565	559	654
16	519	501	833	530	14000	12100	13400	6050	35300	8810	569	627
17	655	566	1140	522	6250	17400	14600	8180	35300	16000	682	607
18	503	502	2900	522	2980	5160	14900	4540	35200	14700	587	630
19	497	490	5390	524	10000	18100	14400	7710	35200	20200	577	928
20	505	498	7420	517	14500	27200	18000	1230	35300	17000	624	1090
21	498	501	6650	520	16700	26200	5650	16300	33400	3700	656	1090
22	502	486	1360	528	18800	26100	933	21000	6050	2940	1770	1080
23	719	485	496	515	21900	22500	3310	18200	3100	4600	672	420
24	569	490	2500	520	25500	8410	5720	14700	11700	9460	567	405
25	500	497	6980	538	33300	8880	1190	11900	32900	14000	567	469
26	505	490	1290	534	32700	16000	572	7850	33000	14900	555	457
27	502	485	497	525	32700	14200	2740	3890	32900	15800	2840	1300
28	504	482	498	530	32600	7020	1030	2430	32900	1240	11800	767
29	517	497	504	572	---	6360	626	11800	33000	442	13600	440
30	518	501	1010	527	---	2110	528	1380	32900	10900	11700	432
31	523	---	501	1000	---	546	---	8260	---	20000	1810	---
MEAN	635	558	1677	554	11050	16530	9572	5725	25240	16440	6448	1245
MAX	2260	1390	7420	1040	33300	34700	30300	21000	35300	33100	22100	5040
MIN	395	465	487	488	506	546	511	492	1800	442	555	405
IN.	.05	.04	.14	.05	.82	1.36	.76	.47	2.01	1.35	.53	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2001[a], BY WATER YEAR (WY)

MEAN	7218	8625	8193	8058	10010	13700	15750	15730	15290	9713	4978	5772
MAX	67300	45270	45050	34700	34720	57300	70040	92260	78160	96780	26560	54540
(WY)	1987	1987	1993	1993	1949	1973	1973	1943	1935	1951	1993	1951
MIN	471	538	562	554	535	359	452	516	515	492	510	486
(WY)	1957	1957	1996	2001	1964	1931	1931	1956	1931	1931	1956	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1931 - 2001[a]	
ANNUAL MEAN	3315		7935		10240	
HIGHEST ANNUAL MEAN					23360	1973
LOWEST ANNUAL MEAN					1046	1954
HIGHEST DAILY MEAN	28500	Jun 28	35300	Jun 15-17,20	212000	May 19 1943
LOWEST DAILY MEAN	379	Sep 25	395	Oct 5	235	Apr 23 1971
ANNUAL SEVEN-DAY MINIMUM	483	Nov 10	483	Nov 10	320	Mar 3 1931
MAXIMUM PEAK FLOW	---		35500	Jun 4	220000	May 19 1943
MAXIMUM PEAK STAGE	---		16.28	Jun 4	48.80	May 19 1943
INSTANTANEOUS LOW FLOW	---		329	Sep 24	183	Sep 9 1969
ANNUAL RUNOFF (INCHES)	3.22		7.70		9.94	
10 PERCENT EXCEEDS	9400		27500		30200	
50 PERCENT EXCEEDS	1100		1390		4040	
90 PERCENT EXCEEDS	495		497		507	

[a] Post-regulation period.

06926510 OSAGE RIVER BELOW ST. THOMAS, MO

LOCATION.--Lat 38°25'18", long 92°12'31", in NW $^1/_4$ NW $^1/_4$ sec.1, T.42 N., R.12 W., Cole County, Hydrologic Unit 10290111, on downstream bridge pier of State Highway B, 3.8 mi north of St. Thomas, and at mile 34.5.

DRAINAGE AREA.--14,584 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1, 1996 to current year. August 1931 to Sept. 30, 1996, records collected at site 8.6 mi upstream and published as "Osage River near St. Thomas" (06926500).

GAGE.--Water-stage recorder. Datum of gage is 525.72 ft above sea level.

REMARKS.--Water-discharge records fair. Considerable regulation by Lake of the Ozarks (station 06925500), 47.2 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	683	580	572	634	1240	35200	981	765	13100	32900	20100	1780
2	535	605	567	598	1180	35700	941	701	14200	32900	17700	826
3	520	592	655	630	783	30200	14300	1100	20400	32800	15000	701
4	1630	567	743	643	770	26500	22600	2220	38000	32900	14000	2190
5	1160	980	862	606	996	28200	22200	4730	41900	32900	16000	1130
6	558	996	1020	592	709	27800	29500	3130	44200	33100	16000	5060
7	450	678	721	586	660	27800	29100	1220	41900	25600	19100	3530
8	490	608	768	769	659	29700	23200	887	33700	21800	19600	3780
9	515	827	604	824	699	23300	9790	1240	30500	20700	14500	1540
10	571	876	628	623	3400	19300	16700	1180	24100	18900	5390	931
11	1520	672	706	601	2580	5910	7300	1310	16700	17900	2020	756
12	710	587	1400	609	1500	3270	7090	5950	34200	19100	977	691
13	559	569	1550	618	9920	8960	10900	1750	36400	18200	740	1420
14	536	554	1030	665	10700	6320	9210	840	35900	9460	708	1550
15	549	564	668	677	6640	3150	7760	3890	35800	1620	705	908
16	584	568	621	658	11800	7620	5050	3980	35700	1020	668	678
17	649	563	695	659	10800	17700	14300	6030	36600	13100	659	656
18	680	588	1040	656	4750	16200	15300	9040	37100	14000	704	685
19	630	609	3960	641	5320	11300	13700	5510	36500	18400	674	682
20	570	569	5230	627	9610	24800	16600	6860	35900	18800	660	771
21	562	554	6500	617	16000	25900	13400	6810	35500	12400	662	1110
22	562	563	5370	612	17000	26200	4210	22600	24200	3400	723	1100
23	566	571	1550	613	19200	25900	1760	18600	12000	2820	1420	1020
24	620	561	742	604	29800	14600	3940	18000	11900	5160	923	669
25	705	585	3440	594	39000	11400	4480	12300	28900	11000	699	455
26	577	599	5590	608	36200	7800	1530	11600	35000	13900	669	470
27	558	578	1570	608	36500	15800	971	6330	33700	17600	645	478
28	553	571	743	603	35600	12500	2660	3720	33200	11100	3290	824
29	550	566	646	938	---	6950	1330	4930	33100	1670	12300	933
30	557	560	659	1450	---	4690	974	10300	33000	1420	13200	560
31	568	---	910	1140	---	2180	---	3700	---	15900	9540	---
MEAN	661	629	1670	687	11210	17510	10390	5846	30780	16530	6773	1263
MAX	1630	996	6500	1450	39000	35700	29500	22600	44200	33100	20100	5060
MIN	450	554	567	586	659	2180	941	701	11900	1020	645	455
IN.	.05	.05	.13	.05	.81	1.39	.80	.46	2.37	1.31	.54	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	10610	11890	10110	8270	14460	21120	17870	15260	21170	12220	5018	4660
MAX	41410	35360	16580	18890	27140	35430	32900	43010	37210	21200	8775	14790
(WY)	1999	1999	1999	1998	1999	1997	1998	1999	1999	1999	1998	1998
MIN	661	629	1670	687	5161	8213	1814	1334	6089	5866	2622	1263
(WY)	2001	2001	2001	2001	2000	2000	2000	2000	2000	2000	1999	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL MEAN	3536		8619		12770	
HIGHEST ANNUAL MEAN					22740	1999
LOWEST ANNUAL MEAN					3699	2000
HIGHEST DAILY MEAN	25400	Jun 28	44200	Jun 6	63600	Jul 27 1998
LOWEST DAILY MEAN	403	Sep 27	450	Oct 7	320	Sep 24 1999
ANNUAL SEVEN-DAY MINIMUM	563	Oct 26	563	Oct 26	563	Oct 26 2000
MAXIMUM PEAK FLOW	---		48400	Jun 6	74700	Jul 26 1998
MAXIMUM PEAK STAGE	---		16.34	Jun 6	21.86	Jul 26 1998
INSTANTANEOUS LOW FLOW	---		430	Oct 7	320	Sep 24 1999
ANNUAL RUNOFF (INCHES)	3.32		8.07		11.97	
10 PERCENT EXCEEDS	9800		29600		34800	
50 PERCENT EXCEEDS	1400		1550		6550	
90 PERCENT EXCEEDS	568		571		668	

06926510 OSAGE RIVER BELOW ST. THOMAS, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to September 1981.
WATER TEMPERATURE: October 1974 to September 1981.

REMARKS.--National Stream-Quality Accounting Network station October 1975 to September 1995. Ambient Water-Quality Monitoring Network station October 1995 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 398 microsiemens per centimeter, Jan. 1, 1981; minimum daily, 140 microsiemens per centimeter, Sept. 3, 1981.
WATER TEMPERATURE: Maximum daily, 30.0 °C, July 29, 1977, July 25 and Aug. 11, 1980; minimum daily, 0.0 °C, Jan. 21, 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
21...	0945	ENVIRONMENTAL	556	12.3	97	7.4	308	5.3	166	42.6	14.4	2.66
JAN												
04...	0925	ENVIRONMENTAL	646	19.6	135	8.6	225	1.9	--	--	--	--
MAR												
07...	1140	ENVIRONMENTAL	28100	13.8	106	8.1	328	4.6	--	--	--	--
MAY												
02...	1330	ENVIRONMENTAL	676	12.9	147	8.3	299	21.5	137	36.3	11.1	3.07
JUL												
11...	1430	ENVIRONMENTAL	13800	3.9	49	7.5	271	25.7	--	--	--	--
SEP												
04...	1000	ENVIRONMENTAL	2940	8.0	104	7.8	250	27.5	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
21...	8.2	108	109	133	0	25.2	.2	25.4	<10	200	<.041	.20	<.047
JAN													
04...	--	145	144	176	10	--	--	--	--	--	<.041	.26	E.045
MAR													
07...	--	121	122	149	0	--	--	--	--	--	<.041	.51	.072
MAY													
02...	7.1	106	105	125	2	8.5	E.1	25.6	13	176	<.041	.57	.311
JUL													
11...	--	91	89	109	0	--	--	--	--	--	<.040	.50	.410
SEP													
04...	--	102	103	126	0	--	--	--	--	--	<.040	.49	<.050

06926510 OSAGE RIVER BELOW ST. THOMAS, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
21...	<.006	<.060	<.018	<.060	<10	K1	K5	K3	19	74	1.0	<8.00	<.11
JAN													
04...	.009	<.060	<.018	<.060	--	<2	<2	<2	--	--	--	--	--
MAR													
07...	<.006	<.060	<.018	E.044	--	K2	K2	K2	--	--	--	--	--
MAY													
02...	.007	<.060	<.018	<.060	16	K1	K1	K1	76	144	.7	<8.00	<.11
JUL													
11...	.009	<.060	<.020	E.045	--	K12	K17	K13	--	--	--	--	--
SEP													
04...	<.006	<.060	E.010	E.057	--	K9	K78	K12	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV								
21...	<4.7	10	E.06	<1	34.9	<.14	--	4
JAN								
04...	--	--	--	--	--	--	--	--
MAR								
07...	--	--	--	--	--	--	--	--
MAY								
02...	<4.7	50	.17	<1	8.8	<.01	8	16
JUL								
11...	--	--	--	--	--	--	--	--
SEP								
04...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

06928000 GASCONADE RIVER NEAR HAZELGREEN, MO

LOCATION.--Lat 37°45'33", long 92°27'06", in SE $^1/_4$ SE $^1/_4$ sec.15, T.35 N., R.14 W., Laclede County, on downstream end of center pier of bridge on south outer road, 400 ft upstream from eastbound bridge of Interstate 44, 1 mi downstream from Osage Fork, 1.5 mi west of Hazelgreen, and at mile 180.

DRAINAGE AREA.--1,250 mi^2, approximately.

PERIOD OF RECORD.--October 1928 to September 1971, October 2000 to current year. Prior to April 1929 monthly discharge only published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 844.75 ft above sea level. Prior to March 6, 1956, nonrecording gage at present site and datum. March 6, 1956 to Dec. 17, 1957, nonrecording gage at site 750 ft downstream at present datum and Dec. 18, 1957 to Aug. 20, 1958, nonrecording gage at present site and datum. Aug. 20, 1958 to September 1971, water-stage recorder at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1916 reached a stage of 30.6 ft from flood mark.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e55	e95	e123	e108	752	2150	273	221	265	265	212	101
2	e55	e99	e121	e107	767	1770	270	211	385	333	168	106
3	e53	e98	e120	e106	620	1510	270	203	731	285	141	95
4	e53	e95	e118	e105	515	1290	271	194	1720	269	124	82
5	e54	e94	e114	e104	441	1110	415	190	1580	254	110	76
6	e56	e114	e112	e105	388	964	e600	187	1140	226	99	72
7	e54	e119	e111	e111	346	849	e500	200	995	200	97	66
8	e53	e132	e110	109	312	764	e450	189	851	181	100	69
9	e53	e171	e109	111	315	690	e410	177	644	164	91	80
10	e54	e185	e109	124	401	631	370	169	517	156	85	86
11	e56	e174	e114	126	509	579	348	172	434	153	81	164
12	e58	e160	e120	144	801	538	327	171	374	175	77	214
13	e57	e162	e134	167	749	499	312	167	327	177	73	218
14	e65	e158	e157	227	706	464	310	156	301	173	74	197
15	e88	e151	e171	290	805	472	310	148	349	167	74	170
16	e124	e147	e160	649	1510	558	307	142	324	167	71	148
17	e158	141	e145	828	2230	528	424	138	285	155	65	132
18	e137	e135	135	684	1640	552	501	157	263	146	66	126
19	e127	e129	e130	554	1260	523	465	367	249	137	77	114
20	e122	e122	e127	465	1050	481	421	1040	234	126	79	104
21	e115	e117	e123	396	888	449	389	946	243	117	70	111
22	e113	e114	e120	345	783	428	361	874	413	109	67	101
23	e111	e114	e118	305	964	407	338	792	822	101	69	99
24	e106	e112	e116	273	5230	384	320	701	815	98	65	103
25	e105	e110	e115	248	17000	358	300	579	627	97	63	97
26	e103	e108	e114	227	17500	337	282	476	491	100	61	90
27	e103	110	e112	212	4430	319	269	402	399	152	56	85
28	e102	e125	e111	200	2820	304	260	351	338	200	53	82
29	e100	e130	e110	206	---	293	243	309	294	241	54	78
30	e98	e126	e110	271	---	286	232	296	271	506	65	75
31	e95	---	e108	354	---	280	---	288	---	302	101	---
MEAN	86.5	128	122	266	2348	670	352	342	556	191	86.7	111
MAX	158	185	171	828	17500	2150	600	1040	1720	506	212	218
MIN	53	94	108	104	312	280	232	138	234	97	53	66
IN.	.08	.11	.11	.25	1.96	.62	.31	.32	.50	.18	.08	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001, BY WATER YEAR (WY)

MEAN	503	655	699	949	1191	1559	1746	1822	1126	548	290	366
MAX	4943	4273	3361	4805	3209	6584	10180	7340	8710	5322	1467	2519
(WY)	1950	1952	1943	1950	1938	1945	1945	1943	1935	1958	1946	1970
MIN	31.6	65.8	72.6	68.0	91.2	141	130	202	83.2	41.8	30.8	25.6
(WY)	1957	1954	1956	1956	1964	1956	1956	1932	1936	1934	1936	1954

SUMMARY STATISTICS	FOR 2001 WATER YEAR		WATER YEARS 1929 - 2001	
ANNUAL MEAN	424		953	
HIGHEST ANNUAL MEAN			2236	1950
LOWEST ANNUAL MEAN			123	1954
HIGHEST DAILY MEAN	17500	Feb 26	58800	Mar 12 1935
LOWEST DAILY MEAN	53	Oct 3	19	Sep 20 1954
ANNUAL SEVEN-DAY MINIMUM	54	Oct 3	21	Sep 14 1954
MAXIMUM PEAK FLOW	24100	Feb 26	76400	Apr 14 1945
MAXIMUM PEAK STAGE	17.92	Feb 26	29.60	Apr 14 1945
INSTANTANEOUS LOW FLOW	51	Aug 28,29	18	Aug 1 1936
ANNUAL RUNOFF (INCHES)	4.61		10.35	
10 PERCENT EXCEEDS	757		2000	
50 PERCENT EXCEEDS	171		345	
90 PERCENT EXCEEDS	77		84	

e Estimated

06928300 ROUBIDOUX CREEK ABOVE FT. LEONARD WOOD, MO

LOCATION.--Lat 37°36'04", long 92°14'02", NE $^1/_4$ SW $^1/_4$ NE $^1/_4$ sec.3, T.33 N., R.12 W., Pulaski County, Hydrologic Unit 10290201, on State Highway 17 bridge, 12 mi south of Ft. Leonard Wood.

DRAINAGE AREA.--165 mi^2.

PERIOD OF RECORD.--Dec. 29, 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage unknown.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	5.8	7.6	7.4	90	197	22	19	25	15	6.1	7.4
2	1.9	6.7	7.1	7.0	71	158	22	18	39	12	5.4	5.9
3	2.1	6.4	6.7	7.2	58	128	23	17	196	11	5.3	5.0
4	2.2	6.9	6.4	7.4	50	107	24	16	527	10	6.1	4.3
5	2.2	6.5	6.2	7.7	44	89	23	15	263	10	5.5	4.0
6	2.2	12	e5.9	7.9	39	76	23	15	217	9.1	4.9	4.1
7	2.2	15	e5.7	8.2	35	66	23	17	172	8.4	5.1	4.1
8	2.1	13	e5.6	9.2	33	59	24	16	113	7.5	5.5	6.2
9	2.4	14	e5.4	10	41	52	23	14	82	6.7	5.3	27
10	2.2	13	e5.3	11	120	48	22	13	62	7.9	4.9	35
11	2.3	11	6.8	12	116	44	23	13	50	21	5.2	40
12	2.4	10	7.3	14	93	41	23	13	41	18	14	29
13	2.6	9.6	10	20	79	38	22	12	34	e16	11	23
14	3.5	8.9	11	48	88	35	20	11	31	e14	7.2	19
15	5.0	8.6	17	71	172	37	25	10	39	e12	5.6	15
16	8.5	8.4	15	75	376	43	30	9.4	42	e11	4.8	13
17	13	7.7	13	61	240	44	48	9.3	34	9.9	5.2	11
18	10	7.2	11	50	161	44	47	25	29	9.0	5.2	12
19	7.9	7.3	9.9	42	121	43	42	264	25	8.3	4.2	12
20	5.7	6.6	9.5	35	98	41	39	181	22	7.7	4.0	9.9
21	5.0	6.3	9.1	30	80	38	36	214	23	7.2	3.8	10
22	4.7	6.2	8.6	27	76	37	33	178	23	6.7	3.7	9.7
23	4.5	6.4	8.7	24	91	35	31	114	22	6.1	3.7	8.5
24	4.4	6.4	8.4	21	3260	32	31	82	19	6.0	3.5	7.4
25	4.9	8.4	8.0	19	4330	29	29	62	16	6.8	3.5	6.5
26	5.1	9.2	8.4	18	635	27	28	48	15	9.4	3.5	6.3
27	5.4	9.6	8.5	17	366	26	26	38	13	9.6	3.5	5.9
28	5.7	9.2	8.3	16	257	25	24	33	12	9.3	3.1	5.2
29	6.8	8.5	7.9	22	---	24	23	28	11	9.0	3.6	4.9
30	7.4	7.9	7.5	63	---	24	21	26	12	8.0	8.5	4.8
31	6.1	---	7.4	106	---	23	---	26	---	7.1	9.3	---
MEAN	4.60	8.76	8.49	28.2	401	55.2	27.7	50.2	73.6	9.99	5.49	11.9
MAX	13	15	17	106	4330	197	48	264	527	21	14	40
MIN	1.9	5.8	5.3	7.0	33	23	20	9.3	11	6.0	3.1	4.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	4.60	8.76	8.49	22.7	215	49.3	22.9	29.2	40.7	9.38	4.75	7.09
MAX	4.60	8.76	8.49	28.2	401	55.2	27.7	50.2	73.6	9.99	5.49	11.9
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	4.60	8.76	8.49	17.2	35.2	43.4	18.0	8.17	7.71	8.76	4.02	2.31
(WY)	2001	2001	2001	2000	2000	2000	2000	2000	2000	2000	2000	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL MEAN	13.8		54.5		54.5	
HIGHEST ANNUAL MEAN					54.5	2001
LOWEST ANNUAL MEAN					54.5	2001
HIGHEST DAILY MEAN	138	Feb 19	4330	Feb 25	4330	Feb 25 2001
LOWEST DAILY MEAN	1.2	Aug 30,Sep 1,3,4	1.9	Oct 2	1.2	Aug 30 2000
ANNUAL SEVEN-DAY MINIMUM	1.3	Aug 29	2.1	Oct 1	1.3	Aug 29 2000
MAXIMUM PEAK FLOW	---		12300	Feb 25	12300	Feb 25 2001
MAXIMUM PEAK STAGE	---		11.09	Feb 25	11.09	Feb 25 2001
INSTANTANEOUS LOW FLOW	---		1.9	Oct 1-8,10,11	.82	Sep 1 2000
10 PERCENT EXCEEDS	36		81		52	
50 PERCENT EXCEEDS	8.4		13		12	
90 PERCENT EXCEEDS	2.2		4.9		3.5	

e Estimated

06928430 ROUBIDOUX CREEK BELOW FT. LEONARD WOOD, MO

LOCATION.--Lat 37°49'40", long 92°12'19", SE $^1/_4$ SW $^1/_4$ SW $^1/_4$ sec.24, R.36 N., R.12 W., Pulaski County, Hydrologic Unit 10290201, on right bank 400 ft downstream from Interstate 44 bridge, on Superior Road, 0.9 mi south of Business 44, and 0.6 mi upstream from Roubidoux Spring.

DRAINAGE AREA.--287 mi^2.

PERIOD OF RECORD.--Feb. 23, 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage unknown.

REMARKS.--Records fair. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.79	.93	.38	.99	433	1.6	1.0	1.8	1.3	.44	.25
2	.18	2.9	1.1	.35	.95	273	1.8	.87	24	1.7	.81	.17
3	.12	1.7	.83	.30	.92	161	2.1	.68	113	1.4	.43	.14
4	.16	1.2	.70	.38	.99	79	3.0	.78	655	1.1	.29	.12
5	.24	1.0	.58	.46	.94	28	7.5	.89	717	1.1	.42	.10
6	.27	3.2	.52	.50	.92	10	3.3	1.1	421	.87	.69	.74
7	.20	2.4	.46	.52	.84	8.2	3.8	1.8	484	.54	.53	.41
8	.18	2.2	.79	.48	.82	6.8	3.0	1.3	254	.52	.43	.52
9	.18	2.8	.60	.46	2.0	5.6	2.9	.97	92	.47	.35	1.2
10	.22	2.3	.68	.43	1.5	4.9	2.7	1.0	21	.48	.29	.58
11	.24	2.0	.80	.55	1.3	4.3	2.6	1.2	7.2	.46	.67	.30
12	.33	2.1	.54	.59	1.3	3.9	2.3	.83	4.5	1.7	.62	.21
13	.40	2.2	1.6	.80	1.7	3.4	1.9	.70	3.0	1.1	.41	.16
14	.62	1.8	1.1	.97	1.6	2.8	2.0	.97	3.0	.65	.24	.13
15	2.6	1.5	1.6	.72	2.0	3.8	2.5	.86	5.0	.40	.14	.12
16	13	1.5	1.5	.62	2.4	4.4	2.3	.74	3.1	.47	.20	.11
17	3.7	1.4	.65	.67	207	3.4	2.0	.97	2.3	.55	.15	.11
18	1.1	1.1	.51	.63	171	2.5	1.6	7.2	2.1	.54	.19	.29
19	.84	1.1	.50	.67	46	2.4	1.4	59	1.8	.64	.17	.35
20	.91	1.1	.47	.61	8.8	2.3	1.6	155	1.9	.62	.14	.23
21	.97	.77	.66	.50	3.7	2.2	1.6	144	4.3	.55	.14	.45
22	1.3	.79	.45	.48	3.5	2.2	1.6	101	2.8	.48	.12	.30
23	1.4	.79	.39	.48	2.5	2.1	1.7	99	2.1	.44	.13	.23
24	1.8	.90	.43	.52	1160	2.0	1.5	20	1.9	.40	.20	.19
25	1.5	2.2	.38	.52	5120	2.0	1.3	5.3	1.7	.79	.24	.15
26	1.5	1.5	.49	.54	1520	2.0	1.2	2.9	1.6	1.9	.21	.14
27	1.6	1.1	.57	.52	900	1.8	1.2	2.1	1.4	.93	.18	.14
28	1.4	1.0	.52	.54	624	1.4	1.2	1.7	1.1	.76	.14	.17
29	1.2	.91	.56	1.4	---	1.4	1.1	1.3	1.1	1.1	.11	.24
30	.91	.79	.48	1.2	---	1.8	1.1	1.7	1.1	.61	.12	.30
31	.79	---	.40	1.1	---	1.8	---	1.9	---	.41	.20	---
MEAN	1.29	1.57	.70	.61	350	34.3	2.18	20.0	94.5	.81	.30	.28
MAX	13	3.2	1.6	1.4	5120	433	7.5	155	717	1.9	.81	1.2
MIN	.12	.77	.38	.30	.82	1.4	1.1	.68	1.1	.40	.11	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	1.29	1.57	.70	.61	350	18.4	1.97	10.4	47.6	.68	.27	.24
MAX	1.29	1.57	.70	.61	350	34.3	2.18	20.0	94.5	.81	.30	.28
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	1.29	1.57	.70	.61	350	2.55	1.76	.87	.70	.55	.24	.19
(WY)	2001	2001	2001	2001	2001	2000	2000	2000	2000	2000	2000	2000

SUMMARY STATISTICS	FEB 23 -DEC 31 2000		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL MEAN			39.8		39.8	
HIGHEST ANNUAL MEAN					39.8	2001
LOWEST ANNUAL MEAN					39.8	2001
HIGHEST DAILY MEAN	13	Oct 16	5120	Feb 25	5120	Feb 25 2001
LOWEST DAILY MEAN	.06	Aug 30	.10	Sep 5	.06	Aug 30 2000
ANNUAL SEVEN-DAY MINIMUM	.09	Sep 16	.15	Aug 17	.09	Sep 16 2000
MAXIMUM PEAK FLOW	---		6650	Feb 25	6650	Feb 25 2001
MAXIMUM PEAK STAGE	---		10.60	Feb 25	10.60	Feb 25 2001
INSTANTANEOUS LOW FLOW	---		.10	Oct 3,Aug 29, Sep 4,5,16,17	.05	Aug 30,31, Sep 5 2000
10 PERCENT EXCEEDS	2.4		6.1		3.1	
50 PERCENT EXCEEDS	.73		1.0		.89	
90 PERCENT EXCEEDS	.14		.21		.17	

06928440 ROUBIDOUX SPRING AT WAYNESVILLE, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°49'30", long 92°11'53", SW $^1/_4$ NW $^1/_4$ NE $^1/_4$ sec.25 T.36 N., R.12 W., Pulaski County, Hydrologic Unit 10290201.
I-44 Exit 159 at Waynesville to Business 44, approximately 1.5 mi to Superior Road, south on Superior Road 0.3 mi to spring.

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
20...	1320	ENVIRONMENTAL	15	5.8	57.4	7.3	403	14.5	237	47.5	28.8	.95
JAN												
08...	1400	ENVIRONMENTAL	19	6.6	64.0	7.5	403	14.1	--	--	--	--
MAR												
14...	0930	ENVIRONMENTAL	71	9.3	84.0	7.3	302	10.1	--	--	--	--
MAY												
29...	0930	ENVIRONMENTAL	72	7.5	76.4	7.3	294	15.2	155	31.1	18.7	1.28
JUL												
12...	0935	ENVIRONMENTAL	44	5.2	54.8	7.2	339	16.5	--	--	--	--
SEP												
06...	1145	ENVIRONMENTAL	18	2.8	29.8	7.4	402	16.0	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
20...	2.5	217	220	268	0	3.8	<.2	5.8	<10	228	<.041	.25	.371
JAN													
08...	--	216	219	267	0	--	--	--	--	--	<.041	<.08	.323
MAR													
14...	--	121	122	149	0	--	--	--	--	--	<.041	.08	1.99
MAY													
29...	2.2	145	146	178	0	4.6	E.1	7.3	<10	172	<.040	.13	.305
JUL													
12...	--	172	173	211	0	--	--	--	--	--	<.040	E.08	.314
SEP													
06...	--	204	203	247	0	--	--	--	--	--	<.040	.09	.418

06928440 ROUBIDOUX SPRING AT WAYNESVILLE, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
20...	<.006	<.060	<.018	<.060	<10	<1	K4	K18	6	20	E.1	<8.00	<.11
JAN													
08...	<.006	<.060	E.010	<.060	--	K4	K5	K1	--	--	--	--	--
MAR													
14...	<.006	<.060	<.018	<.060	--	K8	K6	22	--	--	--	--	--
MAY													
29...	<.006	<.060	<.020	<.060	<10	K1	K8	76	26	48	.2	<8.00	<.10
JUL													
12...	E.003	<.060	<.020	<.060	--	K16	57	210	--	--	--	--	--
SEP													
06...	<.006	<.060	<.020	<.060	--	K6	K3	20	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV							
20...	<4.7	<10	E.06	<1	<3.2	<.14	3
JAN							
08...	--	--	--	--	--	--	--
MAR							
14...	--	--	--	--	--	--	--
MAY							
29...	<5.0	20	E.05	<1	<3.0	<.01	3
JUL							
12...	--	--	--	--	--	--	--
SEP							
06...	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

06930000 BIG PINEY RIVER NEAR BIG PINEY, MO

LOCATION.--Lat 37°39'56", long 92°03'01", in NE $^1/_4$ SE $^1/_4$ sec. 8, T.34 N., R.10 W., Pulaski County, Hydrologic Unit 10290202, on downstream side of left pier of Ross bridge, 3.0 mi east of Big Piney, 14.8 mi upstream from Spring Creek, and at river mile 22.

DRAINAGE AREA.--560 mi^2, approximately.

PERIOD OF RECORD.--October 1921 to Sept. 30, 1982, April 4 1988 to Sept. 30, 1996, Nov. 23, 1999 to current year.

REVISED RECORDS.--WSP 826: 1935. WSP 1176: 1943, 1945. WSP 1340: 1922-23, 1927-28(M), 1933(M), 1935(M).

GAGE.--Water-stage recorder. Datum of gage is 800.99 ft above sea level. Prior to July 12, 1961, nonrecording gage at same site and datum.

REMARKS.--Records fair. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 24.54 ft. Dec. 4, 1982, from floodmark, present datum, discharge, 81,200 ft^3/s, from indirect measurement.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	106	136	114	552	873	199	148	156	150	77	74
2	102	111	129	113	430	752	201	143	190	190	74	68
3	100	106	124	112	358	662	200	138	229	168	71	65
4	100	104	123	112	311	585	204	133	365	148	67	63
5	100	101	119	111	279	521	201	133	360	132	65	61
6	102	125	117	111	252	465	196	134	321	120	63	61
7	99	126	115	112	232	424	192	140	309	107	64	60
8	101	140	114	113	216	394	187	134	264	100	79	65
9	101	164	113	114	225	370	183	130	233	95	80	161
10	103	167	112	117	236	347	180	124	211	99	88	257
11	106	150	122	122	286	329	180	122	194	98	116	260
12	108	142	124	129	319	314	177	121	175	118	91	188
13	110	140	142	140	304	299	173	114	155	123	89	149
14	110	136	190	169	303	286	169	112	149	123	143	122
15	111	138	197	230	548	287	177	109	179	114	139	106
16	126	132	184	430	970	292	186	107	161	103	107	97
17	130	125	166	381	907	297	232	106	160	99	94	93
18	128	120	162	322	679	306	248	131	147	96	88	97
19	129	117	150	280	550	293	232	170	136	94	83	91
20	126	110	149	252	470	280	220	162	124	96	77	86
21	122	104	146	228	415	271	213	188	131	91	73	97
22	119	102	142	209	396	264	205	454	134	101	71	88
23	117	99	138	194	1010	255	204	375	142	96	69	84
24	115	99	134	182	1630	244	195	294	142	87	69	84
25	115	109	131	172	9980	233	185	249	135	85	67	84
26	111	111	128	165	3600	224	178	216	122	95	65	84
27	112	125	126	157	1410	215	171	193	116	94	64	81
28	111	144	123	153	1060	210	165	178	116	92	62	78
29	110	148	120	167	---	206	158	163	151	95	66	76
30	109	143	118	301	---	204	152	166	174	89	64	75
31	108	---	116	764	---	203	---	157	---	82	78	---
MEAN	111	125	136	202	997	352	192	169	186	109	80.7	102
MAX	130	167	197	764	9980	873	248	454	365	190	143	260
MIN	99	99	112	111	216	203	152	106	116	82	62	60
IN.	.23	.25	.28	.42	1.86	.72	.38	.35	.37	.22	.17	.20

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	269	482	449	554	631	825	987	911	605	289	239	257
MAX	1261	2127	1940	2554	2237	2565	3637	3324	4490	1969	1947	1959
(WY)	1950	1952	1943	1950	1982	1945	1927	1990	1983	1951	1927	1993
MIN	82.3	106	98.5	98.5	127	154	168	132	111	89.3	80.7	72.9
(WY)	1957	1965	1956	1956	1934	1981	2000	2000	1934	1934	2001	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	156		225		542	
HIGHEST ANNUAL MEAN					1179	1927
LOWEST ANNUAL MEAN					149	1954
HIGHEST DAILY MEAN	598	Feb 28	9980	Feb 25	22900	Sep 26 1993
LOWEST DAILY MEAN	83	Sep 19,20	60	Sep 7	60	Sep 7 2001
ANNUAL SEVEN-DAY MINIMUM	85	Sep 17	63	Sep 2	63	Sep 2 2001
MAXIMUM PEAK FLOW	---		13300	Feb 25	32700	Dec 27 1942
MAXIMUM PEAK STAGE	---		14.58	Feb 25	20.70	Dec 27 1942
INSTANTANEOUS LOW FLOW	---		58	Sep 7,8	58	Sep 7 2001
ANNUAL RUNOFF (INCHES)	3.78		5.45		13.15	
10 PERCENT EXCEEDS	242		321		1060	
50 PERCENT EXCEEDS	138		135		252	
90 PERCENT EXCEEDS	101		84		122	

06930060 BIG PINEY RIVER BELOW FT. LEONARD WOOD, MO

LOCATION.--Lat 37°45'35", long 92°03'30", SE $^1/_4$ SW $^1/_4$ NW $^1/_4$ sec.17, T.35 N. R.10 W., Pulaski County, Hydrologic Unit 10290202, on right downstream wingwall of bridge on East Gate Ft. Leonard Wood road, 1.8 mi west of Highway J, 8.5 mi south of Interstate 44.

DRAINAGE AREA.--593 mi^2.

PERIOD OF RECORD.--Dec. 3, 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records fair. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	129	179	139	685	1150	244	194	190	206	128	120
2	128	135	170	138	533	973	245	188	245	209	120	114
3	125	131	163	137	440	858	249	184	284	221	117	110
4	124	129	160	137	370	763	307	180	485	192	115	107
5	122	128	157	136	327	681	326	177	503	176	111	106
6	121	150	154	136	294	615	297	179	451	167	112	103
7	120	157	152	144	269	559	279	189	502	157	110	103
8	118	156	149	146	250	520	264	178	435	151	114	108
9	117	181	147	149	254	480	254	168	351	146	124	139
10	117	194	144	147	273	451	250	170	304	141	128	225
11	118	184	149	152	293	421	245	166	273	146	138	300
12	119	173	154	158	366	400	242	166	253	159	133	233
13	120	171	164	169	358	378	238	159	234	164	128	193
14	116	166	186	193	352	360	236	155	227	156	132	168
15	122	167	220	225	525	359	234	153	255	156	177	152
16	144	164	215	401	1000	369	232	151	232	146	151	143
17	168	160	199	454	1190	365	262	149	223	140	134	137
18	149	157	189	382	882	374	299	165	216	138	136	139
19	149	154	179	329	718	365	291	216	206	134	125	137
20	144	151	171	295	622	345	276	219	191	136	120	128
21	139	146	168	264	559	332	266	238	199	136	116	137
22	134	145	163	241	518	325	257	411	195	132	115	132
23	136	144	160	223	1030	313	255	505	196	140	107	126
24	130	144	158	211	1600	301	243	371	190	130	111	124
25	129	154	155	200	18600	287	235	304	187	128	110	123
26	126	156	152	190	14500	276	227	265	176	138	110	122
27	125	162	149	184	2090	265	219	235	170	140	105	121
28	128	172	147	179	1460	258	214	218	168	151	105	118
29	127	186	144	191	---	254	207	202	178	171	104	115
30	127	182	142	234	---	251	201	201	201	140	110	115
31	130	---	140	778	---	249	---	199	---	131	117	---
MEAN	129	158	164	228	1798	448	253	215	264	154	121	140
MAX	168	194	220	778	18600	1150	326	505	503	221	177	300
MIN	116	128	140	136	250	249	201	149	168	128	104	103

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	129	158	164	212	1021	377	227	187	216	151	134	132
MAX	129	158	164	228	1798	448	253	215	264	154	148	140
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2000	2001
MIN	129	158	164	195	269	305	200	160	168	147	121	124
(WY)	2001	2001	2001	2000	2000	2000	2000	2000	2000	2000	2001	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL MEAN	180		329		329	
HIGHEST ANNUAL MEAN					329	2001
LOWEST ANNUAL MEAN					329	2001
HIGHEST DAILY MEAN	661	Feb 28	18600	Feb 25	18600	Feb 25 2001
LOWEST DAILY MEAN	113	Sep 2	103	Sep 6,7	103	Sep 6 2001
ANNUAL SEVEN-DAY MINIMUM	115	Aug 29	107	Sep 2	107	Sep 2 2001
MAXIMUM PEAK FLOW	---		37400	Feb 26	37400	Feb 26 2001
MAXIMUM PEAK STAGE	---		13.32	Feb 26	13.32	Feb 26 2001
INSTANTANEOUS LOW FLOW	---		103	Sep 6,7	110	Sep 3 2000
10 PERCENT EXCEEDS	278		415		351	
50 PERCENT EXCEEDS	161		171		170	
90 PERCENT EXCEEDS	122		117		122	

06930450 BIG PINEY RIVER AT DEVIL'S ELBOW, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°50'53", long 92°03'44, in NW $^1/_4$, SE $^1/_4$, NE $^1/_4$, sec.18, T.36 N., R.10 W., Pulaski County, Hydrologic Unit 19290202, at bridge on County Highway V at Devil's Elbow.

DRAINAGE AREA.--746 mi^2.

PERIOD OF RECORD.--July 1977 to October 1989, November 1992 to currrent year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
20...	1430	ENVIRONMENTAL	264	13.5	109	7.7	345	6.1	201	39.8	24.6	1.06
JAN												
09...	0930	ENVIRONMENTAL	204	13.4	97.9	7.8	335	2.5	--	--	--	--
MAR												
26...	1320	ENVIRONMENTAL	767	12.9	116	8.0	307	10.6	--	--	--	--
MAY												
03...	1015	ENVIRONMENTAL	230	9.6	107	8.0	333	21.1	169	33.8	20.7	1.27
JUL												
25...	1230	ENVIRONMENTAL	175	6.2	79.1	7.9	332	26.7	--	--	--	--
SEP												
06...	1015	ENVIRONMENTAL	150	6.3	78.9	7.9	344	25.6	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
20...	4.2	177	179	218	0	6.9	--	5.1	<10	196	<.041	<.08	.153
JAN													
09...	--	182	186	226	0	--	--	--	--	--	<.041	.10	.446
MAR													
26...	--	138	139	170	0	--	--	--	--	--	<.041	.11	.485
MAY													
03...	3.4	161	163	198	0	5.6	<.2	5.8	<10	182	<.041	.21	.276
JUL													
25...	--	166	165	202	0	--	--	--	--	--	<.040	.17	.238
SEP													
06...	--	169	170	208	0	--	--	--	--	--	<.040	.19	.197

06930450 BIG PINEY RIVER AT DEVIL'S ELBOW, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
20...	<.006	<.060	.019	<.060	<10	K3	K7	K8	8	19	.2	<8.00	<.11
JAN													
09...	E.003	<.060	E.011	<.060	--	K2	K3	K9	--	--	--	--	--
MAR													
26...	E.005	<.060	<.018	<.060	--	K2	K3	K3	--	--	--	--	--
MAY													
03...	.006	<.060	E.012	E.037	<10	K2	23	21	13	31	.4	<8.00	<.11
JUL													
25...	.006	E.041	<.020	E.047	--	47	56	83	--	--	--	--	--
SEP													
06...	<.006	E.036	.033	E.050	--	K17	31	21	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV							
20...	<4.7	10	E.04	<1	5.6	<.14	1
JAN							
09...	--	--	--	--	--	--	--
MAR							
26...	--	--	--	--	--	--	--
MAY							
03...	<4.7	10	.12	<1	13.2	<.01	<1
JUL							
25...	--	--	--	--	--	--	--
SEP							
06...	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

06930800 GASCONADE RIVER ABOVE JEROME, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°55'12", long 91°58'33", in SW $^1/_4$ NW $^1/_4$ NE $^1/_4$ sec.24, T.37 N., R.10 W., Phelps County, Hydrologic Unit 10290203, at bridge on State Highway D at Jerome, 150 ft upstream from Little Piney Creek, and 0.7 mi upstream from gaging station.

DRAINAGE AREA.--2,570 mi^2.

PERIOD OF RECORD.--January 1978 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1978 to September 1981.
WATER TEMPERATURE: March 1978 to September 1981.

REMARKS.--National Stream-Quality Accounting Network station January 1978 to September 1993. Ambient Water-Quality Monitoring Network station November 1993 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 588 microsiemens per centimeter, Sept. 23, 1981; minimum, 133 microsiemens per centimeter, September 1, 1981.
WATER TEMPERATURE: Maximum daily, 34.0 °C, Aug. 11 and 17, 1980; minimum, 0.0 °C on many days during winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT												
24...	1230	ENVIRONMENTAL	463	7.7	79	7.8	359	17.8	--	--	--	--
NOV												
21...	1310	ENVIRONMENTAL	535	12.7	100	8.0	345	5.3	210	41.1	25.8	1.23
DEC												
06...	1330	ENVIRONMENTAL	523	13.0	99	8.1	368	4.6	--	--	--	--
JAN												
09...	1130	BLANK	--	--	--	--	--	--	--	.04	E.006	<.24
09...	1215	ENVIRONMENTAL	475	12.0	87	8.3	350	2.4	220	43.6	26.6	.92
FEB												
15...	1300	ENVIRONMENTAL	1570	10.6	88	8.0	362	7.4	--	--	--	--
MAR												
28...	0922	ENVIRONMENTAL	894	9.9	88	8.0	335	9.6	--	--	--	--
APR												
09...	1010	ENVIRONMENTAL	1400	7.9	85	7.6	336	19.1	--	--	--	--
MAY												
03...	1215	ENVIRONMENTAL	681	7.9	89	8.0	344	21.7	180	34.3	22.0	1.62
JUN												
13...	0910	ENVIRONMENTAL	1150	6.8	84	7.7	314	24.3	--	--	--	--
JUL												
18...	0750	BLANK	--	--	--	--	--	--	--	.02	<.008	<.09
18...	0830	ENVIRONMENTAL	547	5.9	75	7.8	328	26.2	170	33.3	21.0	1.60
AUG												
14...	1330	ENVIRONMENTAL	429	7.0	88	8.0	323	26.0	--	--	--	--
14...	1331	REPLICATE	--	--	--	--	--	--	--	--	--	--
SEP												
06...	1315	ENVIRONMENTAL	381	6.7	84	8.1	339	25.7	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT													
24...	--	174	172	209	0	--	--	--	--	--	<.041	.13	.067
NOV													
21...	3.9	105	110	134	0	7.0	E.1	6.4	<10	207	<.041	E.05	.053
DEC													
06...	--	182	183	224	0	--	--	--	--	--	<.041	.13	.111
JAN													
09...	.6	--	--	--	--	<.1	<.2	.1	<10	<10	<.041	<.08	<.047
09...	3.9	190	188	230	0	6.1	<.2	6.4	<10	207	<.041	.14	.213
FEB													
15...	--	168	170	207	--	--	--	--	--	--	<.041	.27	1.04
MAR													
28...	--	147	149	182	0	--	--	--	--	--	<.041	.12	.789
APR													
09...	--	182	183	224	0	--	--	--	--	--	<.041	.28	.348
MAY													
03...	3.6	158	158	193	0	7.1	<.2	6.4	14	192	<.041	.22	.103
JUN													
13...	--	137	138	168	0	--	--	--	--	--	<.040	.26	.172
JUL													
18...	.4	--	--	--	--	<.1	<.2	.3	<10	<10	<.040	<.08	<.050
18...	3.4	154	156	191	0	5.4	<.2	5.0	13	186	<.040	.22	.145
AUG													
14...	--	165	166	203	0	--	--	--	--	--	<.040	.23	.096
14...	--	--	--	--	--	--	--	--	--	--	<.040	.26	.091
SEP													
06...	--	163	164	200	0	--	--	--	--	--	<.040	.21	E.031

06930800 GASCONADE RIVER ABOVE JEROME, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
24...	E.003	<.060	E.009	<.060	--	K2	K5	K13	--	--	--	--	--
NOV													
21...	.010	<.060	<.018	<.060	<10	K0	K1	K3	7	19	.2	<8.00	<.11
DEC													
06...	<.006	<.060	<.018	<.060	--	K0	K2	K5	--	--	--	--	--
JAN													
09...	<.006	<.060	<.018	<.060	<10	--	--	--	8	7	<.2	<8.00	<.11
09...	E.003	<.060	<.018	<.060	<10	K1	K20	K2	11	43	E.1	<8.00	<.11
FEB													
15...	.010	<.060	<.018	<.060	--	K15	20	LA	--	--	--	--	--
MAR													
28...	E.004	<.060	<.018	<.060	--	K4	K3	K6	--	--	--	--	--
APR													
09...	E.003	<.060	<.018	E.035	--	30	38	20	--	--	--	--	--
MAY													
03...	E.004	<.060	<.018	<.060	13	K3	K9	K1	16	71	.5	<8.00	<.11
JUN													
13...	E.004	<.060	E.017	E.031	--	27	26	33	--	--	--	--	--
JUL													
18...	E.004	<.060	<.020	<.060	<10	--	--	--	7	8	<.2	<8.00	<.10
18...	E.004	<.060	E.009	<.060	12	K12	K14	K8	16	100	.6	<8.00	<.10
AUG													
14...	<.006	<.060	<.020	E.032	--	K8	K13	K8	--	--	--	--	--
14...	<.006	<.060	<.020	E.038	--	--	--	--	--	--	--	--	--
SEP													
06...	E.003	<.060	<.020	<.060	--	K4	K2	K8	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
OCT								
24...	--	--	--	--	--	--	--	--
NOV								
21...	<4.7	M	E.07	<1	5.0	<.14	--	1
DEC								
06...	--	--	--	--	--	--	--	--
JAN								
09...	<4.7	<10	<.08	<1	<3.2	<.14	2	1
09...	<4.7	M	<.08	<1	3.9	<.14	--	3
FEB								
15...	--	--	--	--	--	--	--	--
MAR								
28...	--	--	--	--	--	--	--	--
APR								
09...	--	--	--	--	--	--	--	--
MAY								
03...	<4.7	10	E.05	<1	17.8	<.01	--	4
JUN								
13...	--	--	--	--	--	--	--	--
JUL								
18...	<5.0	<10	<.08	<1	<3.0	<.01	2	2
18...	<5.0	10	<.08	<1	9.8	<.01	--	4
AUG								
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
SEP								
06...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.
LA-Laboratory Accident.

06932000 LITTLE PINEY CREEK AT NEWBURG, MO

LOCATION.--Lat 37°54'35", long 91°54'12", in SW $^1/_4$ SE $^1/_4$ sec.22, T.37 N., R.9 W., Phelps County, Hydrologic Unit 10290203, on downstream side of bridge on State Highway P and T at Newburg, and 2 mi upstream from Mill Creek.

DRAINAGE AREA.--199 mi^2, approximately.

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 693.40 ft above sea level. Prior to Oct. 1, 1951, all gages at datum 3.0 ft higher. Prior to Nov. 21, 1963, nonrecording gage at site 100 ft downstream; Nov. 21, 1963 to May 9, 1966, nonrecording gage at present site.

REMARKS.--Records poor. U.S.G.S satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 16.7 ft, Aug. 20, 1915, from floodmark, present datum; discharge, 30,000 ft^3/s, from rating curve based on discharge measurements made in 1935 and extended above 25,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	45	45	e65	117	254	e99	80	e83	107	53	36
2	42	50	45	e66	102	223	e102	e78	e101	93	49	35
3	40	45	45	e64	94	202	234	e98	752	84	47	35
4	41	44	45	e65	89	184	3520	e85	e300	79	45	34
5	44	44	45	e64	83	164	1040	e75	e200	73	44	34
6	45	61	46	e64	79	153	479	e76	e172	68	43	35
7	42	60	46	e65	77	145	350	92	e153	64	42	34
8	43	54	46	e65	75	136	277	77	e140	60	42	37
9	43	69	47	64	111	130	233	e76	e127	59	42	66
10	44	63	e54	63	131	125	240	e73	e113	57	41	50
11	45	56	e55	64	119	119	220	e71	e102	55	42	42
12	45	55	e64	65	108	114	e207	e70	e92	78	41	39
13	46	55	e90	74	109	109	e182	e68	e83	64	39	38
14	48	52	e123	115	125	103	e178	e65	e89	56	38	36
15	54	50	e92	105	150	111	e171	e67	e105	54	38	35
16	102	49	e85	92	174	201	154	e63	79	52	38	35
17	114	47	e79	83	151	170	134	e60	e74	52	37	37
18	67	46	e77	78	136	151	122	115	e71	50	44	46
19	57	46	e75	75	127	134	132	e254	e75	51	40	42
20	52	44	e73	71	119	124	124	e130	e99	49	38	37
21	50	44	e72	67	107	116	112	e110	370	48	37	47
22	48	44	e68	66	106	115	e107	e99	142	48	37	39
23	47	44	e66	65	103	113	e104	e92	108	47	37	37
24	46	44	e66	64	1800	103	99	e89	90	46	38	36
25	46	51	e65	61	1420	96	e101	e87	80	46	39	35
26	45	49	e64	62	519	92	e119	e83	73	54	37	35
27	45	46	e64	61	378	89	107	e82	72	50	36	36
28	45	45	e65	60	302	88	e95	e83	559	54	35	35
29	44	44	e65	110	---	86	e87	e85	179	77	35	34
30	44	45	e66	167	---	85	82	e89	131	68	35	36
31	46	---	e65	138	---	e97	---	84	---	60	37	---
MEAN	50.4	49.7	64.6	77.0	250	133	307	88.9	160	61.4	40.2	38.4
MAX	114	69	123	167	1800	254	3520	254	752	107	53	66
MIN	40	44	45	60	75	85	82	60	71	46	35	34
IN.	.29	.28	.37	.44	1.30	.77	1.71	.51	.90	.35	.23	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001, BY WATER YEAR (WY)

MEAN	98.0	139	151	151	179	235	269	261	201	107	82.3	87.2
MAX	913	694	1300	770	678	822	1335	871	1545	684	493	706
(WY)	1950	1994	1983	1950	1985	1945	1945	1957	1935	1998	1946	1993
MIN	26.9	33.1	35.7	34.9	35.6	42.8	42.0	43.7	32.2	27.6	27.6	28.1
(WY)	1957	1957	1956	1956	1934	1956	1956	1932	1934	1934	1936	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1929 - 2001	
ANNUAL MEAN	63.0		109		163	
HIGHEST ANNUAL MEAN					391	1985
LOWEST ANNUAL MEAN					47.0	1954
HIGHEST DAILY MEAN	143	Feb 18	3520	Apr 4	19600	Dec 3 1982
LOWEST DAILY MEAN	40	Oct 3	34	Sep 4,5,7,29	24	1936,1954,1956
ANNUAL SEVEN-DAY MINIMUM	42	Oct 1	35	Sep 1	24	Aug 22 1936
MAXIMUM PEAK FLOW	---		7780	Apr 4	32500	Aug 14 1946
MAXIMUM PEAK STAGE	---		10.87	Apr 4	16.60	Jun 17 1985
INSTANTANEOUS LOW FLOW	---		31	Sep 7	24	Several Years
ANNUAL RUNOFF (INCHES)	4.29		7.38		11.07	
10 PERCENT EXCEEDS	85		153		286	
50 PERCENT EXCEEDS	60		66		87	
90 PERCENT EXCEEDS	44		38		44	

e Estimated

06933500 GASCONADE RIVER AT JEROME, MO

LOCATION.--Lat 37°55'47", long 91°58'38", in NE $^1/_4$ NE $^1/_4$ SE $^1/_4$ sec.13, T.37 N., R.10 W., Phelps County, Hydrologic Unit 10290203, on left bank at Jerome, 0.5 mi downstream from Little Piney Creek, and at mile 107.

DRAINAGE AREA.--2,840 mi^2, approximately.

PERIOD OF RECORD.--April 1903 to July 1906, published as "at Arlington", January 1923 to current year. October to December 1922 monthly discharge only, published in WSP 1310. Gage-height records collected intermittently in the vicinity 1885-1926 and at same site since 1938 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 172: 1904. WSP 566: Drainage area. WSP 1340: 1903-04, 1928(M).

GAGE.--Water-stage recorder. Datum of gage is 657.64 ft above sea level. Prior to July 26, 1904, nonrecording gage at site 0.8 mi downstream at different datum; July 26, 1904, to July 21, 1906, nonrecording gage at site 0.5 mi upstream from present site at datum about 0.85 ft higher than present gage; Jan. 3, 1923, to Sept. 29, 1928, nonrecording gage at site 400 ft downstream from present site at datum 0.14 ft lower than present datum; Sept. 30, 1928, to Jan. 17, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good. National Weather Service gage-height and U.S.G.S. satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 6, 1897, reached a stage of about 29.0 ft, discharge, 120,000 ft^3/s. A stage of 28.6 ft was reached on Aug. 20 and 22, 1915, discharge, 114,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	373	463	539	515	1410	6300	824	711	978	863	e610	381
2	365	499	535	510	1340	4970	820	688	e1350	823	679	379
3	364	491	534	511	1530	4050	1190	681	1710	815	611	377
4	361	478	535	514	1450	3410	5860	663	4100	826	557	381
5	370	475	537	509	1280	2870	2890	647	e5500	790	517	382
6	371	526	530	e505	1150	2460	1910	644	4020	737	500	381
7	360	576	525	e503	1050	2160	1680	670	3210	706	493	377
8	353	568	522	e500	973	1960	1560	640	2810	673	485	384
9	345	598	511	492	985	1760	1400	615	2290	641	473	441
10	348	618	504	e500	1060	1580	1730	601	e1900	601	470	430
11	345	611	508	510	1060	1460	1720	590	1530	564	472	478
12	343	596	508	531	1160	1370	1440	583	1300	628	461	529
13	340	611	524	554	1300	1310	1230	568	1140	634	451	480
14	341	611	548	642	1530	1210	1110	560	1040	610	436	479
15	390	602	556	707	1580	1210	1140	551	1190	603	421	527
16	490	594	595	762	1990	1440	1100	543	1040	585	440	524
17	714	578	586	960	2880	1430	1040	538	980	565	431	517
18	602	566	562	1160	3940	1380	1010	976	915	550	430	524
19	527	562	548	1320	3330	1310	1090	2110	854	e570	420	503
20	523	552	535	1230	2640	1270	1140	1260	803	e545	402	468
21	502	538	549	1090	2190	1200	1090	2020	1090	e525	392	489
22	483	526	538	991	1930	1150	1020	2270	1100	e500	384	466
23	471	521	549	912	1870	1110	979	2130	1010	e480	385	446
24	468	517	570	852	6310	1080	931	1820	964	e460	384	430
25	461	541	559	794	19200	1010	879	1570	1230	535	407	416
26	458	540	555	754	28000	967	841	1370	1170	575	392	401
27	457	528	552	716	24500	935	815	1190	1070	554	381	391
28	458	529	536	685	10600	894	799	1050	1530	541	381	386
29	463	532	520	716	---	874	761	946	1040	602	381	382
30	463	543	520	887	---	871	732	919	919	569	379	376
31	463	---	509	978	---	847	---	1060	---	e550	381	---
MEAN	431	550	539	736	4580	1802	1358	1006	1659	620	452	438
MAX	714	618	595	1320	28000	6300	5860	2270	5500	863	679	529
MIN	340	463	504	492	973	847	732	538	803	460	379	376
IN.	.18	.22	.22	.30	1.68	.73	.53	.41	.65	.25	.18	.17

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	1382	2328	2463	2422	2997	4031	4620	4310	3030	1535	1171	1266
MAX	10390	10400	17740	10980	11540	13110	20450	15390	18500	10730	9244	12580
(WY)	1950	1994	1983	1950	1985	1945	1945	1990	1935	1951	1927	1993
MIN	289	368	392	368	491	597	504	532	518	339	324	293
(WY)	1957	1957	1956	1956	1964	1956	1956	2000	1934	1934	1936	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	614		1155		2617	
HIGHEST ANNUAL MEAN					6491	1985
LOWEST ANNUAL MEAN					544	1954
HIGHEST DAILY MEAN	1530	Feb 22	28000	Feb 26	121000	Dec 5 1982
LOWEST DAILY MEAN	340	Sep 23,Oct 13	340	Oct 13	259	Sep 21 1956
ANNUAL SEVEN-DAY MINIMUM	345	Oct 8	345	Oct 8	266	Sep 16 1956
MAXIMUM PEAK FLOW	---		30400	Feb 26	136000	Dec 5 1982
MAXIMUM PEAK STAGE	---		15.08	Feb 26	31.34	Dec 5 1982
INSTANTANEOUS LOW FLOW	---		340	Oct 12-14	254	Sep 21 1956
ANNUAL RUNOFF (INCHES)	2.94		5.52		12.52	
10 PERCENT EXCEEDS	1050		1780		5500	
50 PERCENT EXCEEDS	548		602		1250	
90 PERCENT EXCEEDS	378		392		518	

e Estimated

06934000 GASCONADE RIVER NEAR RICH FOUNTAIN, MO

LOCATION.--Lat 38°23'20", long 91°49'15", in SE $^1/_4$ sec.16, T.41 N., R.8 W., Osage County, Hydrologic Unit 10290203, on downstream side of State Highway 89 bridge, 100 ft downstream from Brush Creek Slough, 800 ft upstream from Swan Creek, and 4 mi east of Rich Fountain.

DRAINAGE AREA.--3,180 mi^2 (by U.S. Army Corps of Engineers).

PERIOD OF RECORD.--Nov. 1, 1921 to Sept. 30, 1959, Oct. 1, 1986 to current year. From 1959 to 1986 annual peaks only.

GAGE.--Water-stage recorder. Datum of gage 553.70 ft above sea level. From Oct. 10, 1921, to Sept. 13, 1932, chain gage on former bridge, 50 ft downstream; Sept. 14, 1932, to Mar. 9, 1934, wire-weight gage on former bridge. Mar. 10, 1934, to Aug. 26, 1956, water-stage recorder on former bridge; Aug. 26, 1956, to May 11, 1966, gage readings were obtained by measuring from a reference point on present bridge; May 11, 1966, to Oct. 31, 1986, Type-A wire-weight gage on present bridge. All gages have been maintained at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	422	511	595	e589	1330	8520	1020	870	1590	1050	643	395
2	416	526	595	e582	1660	5910	1000	834	1410	1010	698	406
3	418	549	585	e579	1560	4750	4170	801	2040	934	727	407
4	425	542	590	e582	1720	4010	6420	781	4870	915	648	399
5	426	519	591	e579	1630	3470	8020	757	4850	901	589	415
6	420	551	594	590	1470	3030	3430	745	6300	853	545	425
7	411	595	588	589	1330	2690	2530	768	5010	794	517	418
8	404	655	580	579	1220	2410	2190	772	3640	754	507	417
9	402	678	570	580	1180	2180	1990	738	3000	711	485	452
10	402	687	561	583	1360	2000	2060	706	2500	671	482	472
11	404	705	557	599	1390	1860	3150	687	2100	634	480	478
12	404	704	550	610	1300	1750	2460	672	1810	652	484	509
13	405	700	570	623	1360	1640	1990	659	1580	708	480	572
14	409	693	607	667	1620	1540	1690	645	1410	701	478	550
15	432	697	609	756	1890	1500	1610	630	1640	665	461	526
16	492	688	e627	824	1950	1970	1670	615	1580	651	451	571
17	615	675	e634	861	2300	2100	1520	614	1320	634	479	601
18	802	662	e653	1080	3090	1880	1390	683	1200	610	472	624
19	738	644	e659	1340	3740	1750	1330	2670	1110	627	456	607
20	639	627	e637	1490	3190	1650	1400	2400	1030	614	460	584
21	617	614	e618	1370	2690	1580	1430	2260	979	575	440	558
22	601	603	e608	1240	2370	1510	1370	2760	1310	549	429	562
23	583	590	e627	1140	2130	1480	1270	2500	1290	529	425	531
24	550	584	e611	1050	7960	1410	1200	2350	1180	507	424	502
25	524	596	e621	980	15100	1340	1140	2060	1100	496	431	484
26	510	611	e643	917	21200	1260	1080	1860	1360	490	427	471
27	510	605	e630	867	27300	1200	1030	1640	1310	708	415	461
28	510	593	e627	825	23200	1150	988	1440	1250	656	403	452
29	504	587	e618	989	---	1100	960	1280	1650	566	402	450
30	512	587	e611	1290	---	1070	911	1180	1200	614	414	443
31	514	---	e592	1320	---	1040	---	1420	---	690	398	---
MEAN	497	619	605	860	4937	2282	2081	1252	2087	693	489	491
MAX	802	705	659	1490	27300	8520	8020	2760	6300	1050	727	624
MIN	402	511	550	579	1180	1040	911	614	979	490	398	395
IN.	.18	.22	.22	.31	1.62	.83	.73	.45	.73	.25	.18	.17

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	1656	2481	2480	2870	3276	4528	5588	5204	3770	1804	1353	1402
MAX	12060	12230	12750	12700	7637	14640	22720	18300	19810	12630	9365	15330
(WY)	1950	1994	1988	1950	1949	1945	1945	1990	1935	1951	1927	1993
MIN	288	394	403	374	558	620	531	670	647	385	334	295
(WY)	1957	1957	1956	1956	1954	1956	1956	2000	1934	1954	1936	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	732		1380		3030	
HIGHEST ANNUAL MEAN					6560	1927
LOWEST ANNUAL MEAN					629	1954
HIGHEST DAILY MEAN	2790	Feb 18	27300	Feb 27	101000	Sep 28 1993
LOWEST DAILY MEAN	373	Sep 21	395	Sep 1	275	Sep 19 1954
ANNUAL SEVEN-DAY MINIMUM	378	Sep 17	403	Aug 29	279	Oct 6 1956
MAXIMUM PEAK FLOW	---		28400	Feb 27	134000	Dec 6 1982
MAXIMUM PEAK STAGE	---		16.13	Feb 27	33.27	Dec 6 1982
INSTANTANEOUS LOW FLOW	---		390	Aug 31,Sep 1	275	Sep 19 1954
ANNUAL RUNOFF (INCHES)	3.13		5.89		12.94	
10 PERCENT EXCEEDS	1250		2360		6430	
50 PERCENT EXCEEDS	622		687		1460	
90 PERCENT EXCEEDS	423		451		562	

e Estimated

06934500 MISSOURI RIVER AT HERMANN, MO

LOCATION.--Lat 38°42'36", long 91°26'21", in SW $^1/_4$ sec.25, T.46 N., R.5 W., Montgomery County, Hydrologic Unit 10300200, on downstream side of third pier from right abutment of bridge on State Highway 19 at Hermann, and at mile 97.9.

DRAINAGE AREA.--524,200 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1897 to current year. Prior to August 1928 monthly discharge only published in WSP 1310. Gage-height records 1873-99 collected at site 480 ft downstream are contained in reports of Missouri River Commission; since 1900 in reports of the National Weather Service.

REVISED RECORDS.--WDR MO-76-1: Drainage area, WDR MO-98-1: Extreme outside period of record.

GAGE.--Water-stage recorder and nonrecording gage. Datum of gage is 481.56 ft above sea level. Prior to Sept. 26, 1930, nonrecording gage at site 480 ft downstream at datum 0.07 ft lower; Sept. 26, 1930, to Mar. 27, 1932, nonrecording gage; Mar. 28, 1932, to June 12, 1945, water-stage recorder; June 13, 1945, to Apr. 2, 1946, May 13 to Sept. 30, 1978, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records good. Some regulation from many upstream reservoirs. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1844 reached a stage of 35.5 ft, discharge, about 700,000 ft^3/s, computed by the U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48600	45300	42000	25500	79700	198000	86800	94200	106000	130000	111000	61900
2	46200	45000	40300	26000	71500	160000	82500	95200	143000	125000	100000	55500
3	44800	45400	39300	26300	58700	135000	83200	94100	166000	121000	87700	54200
4	43700	45700	38400	26600	47900	117000	121000	92300	201000	121000	79200	51300
5	44500	47300	37200	26400	41000	106000	138000	94900	251000	128000	75200	50300
6	46500	49900	35400	26600	36800	101000	143000	107000	279000	135000	72300	50100
7	45600	51600	33700	26400	35000	96600	133000	117000	337000	129000	69900	51000
8	46000	50200	32200	26400	34300	93400	123000	139000	346000	113000	72000	49300
9	47300	52000	31500	26300	37200	88900	113000	160000	339000	104000	69400	49100
10	46600	60100	31000	26600	88700	84000	102000	144000	314000	94500	63600	47300
11	45900	64000	30300	26900	130000	78600	124000	126000	261000	89000	55500	46300
12	45800	60100	29300	26900	115000	66700	154000	123000	216000	e84800	51300	46100
13	45500	55000	28800	26900	94700	64300	149000	135000	188000	87800	49500	47200
14	45000	51400	29100	28000	83200	67800	140000	140000	162000	99400	48300	48900
15	46500	49100	28700	30100	72700	85100	146000	129000	149000	106000	47300	48000
16	51500	47100	28100	30800	64000	127000	147000	125000	154000	95600	46900	46200
17	52000	45800	27900	32700	66500	188000	144000	123000	180000	83600	46800	45600
18	54100	45000	27100	37200	61700	208000	137000	125000	199000	82900	46700	46500
19	51000	44400	25600	39500	52800	192000	128000	132000	186000	79500	46500	52800
20	47300	44000	25700	37700	49800	175000	123000	142000	165000	82300	46100	88700
21	45700	43300	27200	35600	51600	157000	123000	129000	160000	80000	46500	108000
22	45400	43100	28400	33600	54600	144000	115000	125000	207000	76100	47100	93900
23	45200	43400	28100	32100	55100	136000	117000	124000	229000	90400	47000	79100
24	45400	43400	25400	31200	83000	134000	118000	119000	229000	81400	48700	70800
25	46500	43700	25000	30500	154000	136000	112000	117000	212000	72700	48900	65900
26	48000	44000	26500	29600	196000	140000	101000	107000	200000	75900	50200	66300
27	49100	43700	29500	28500	229000	133000	91300	96800	175000	89000	53900	72100
28	47600	43800	26300	27600	224000	123000	86400	88300	153000	105000	63300	68600
29	46100	43900	24300	32800	---	109000	88400	84100	142000	88800	68300	62100
30	45800	43400	24200	73900	---	99500	91800	85500	136000	79200	69700	59200
31	45800	---	24800	82600	---	91800	---	94200	---	91100	69700	---
MEAN	46940	47800	30040	32830	84590	123700	118700	116400	206200	97450	61240	59410
MAX	54100	64000	42000	82600	229000	208000	154000	160000	346000	135000	111000	108000
MIN	43700	43100	24200	25500	34300	64300	82500	84100	106000	72700	46100	45600
IN.	.10	.10	.07	.07	.17	.27	.25	.26	.44	.21	.13	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2001[a], BY WATER YEAR (WY)

MEAN	79930	80240	63850	51350	69300	98730	123400	122200	121900	102200	75520	77370
MAX	286700	174800	178900	129000	136800	267500	333400	313000	282300	376300	306600	243500
(WY)	1987	1999	1983	1973	1982	1973	1973	1995	1995	1993	1993	1993
MIN	36680	29400	17060	17350	19250	22810	45800	47710	46150	44010	39540	37800
(WY)	1964	1991	1964	1963	1964	1964	1963	1989	1988	1988	1991	1963

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1958 - 2001[a]	
ANNUAL MEAN	52500		85200		87950	
HIGHEST ANNUAL MEAN					181800	1993
LOWEST ANNUAL MEAN					44980	1963
HIGHEST DAILY MEAN	142000	Jun 29	346000	Jun 8	739000	Jul 31 1993
LOWEST DAILY MEAN	24200	Dec 30	24200	Dec 30	6210	Dec 23 1963
ANNUAL SEVEN-DAY MINIMUM	25800	Dec 25	25300	Dec 28	7400	Dec 20 1963
MAXIMUM PEAK FLOW	---		350000	Jun 7	750000	Jul 31 1993
MAXIMUM PEAK STAGE	---		29.46	Jun 7	36.97	Jul 31 1993
INSTANTANEOUS LOW FLOW	---		24100	Dec 29	602	Dec 23 1963
ANNUAL RUNOFF (INCHES)	1.36		2.21		2.28	
10 PERCENT EXCEEDS	68300		154000		166000	
50 PERCENT EXCEEDS	49100		68600		69300	
90 PERCENT EXCEEDS	40700		29600		37200	

e Estimated
[a] Post-regulation period.

06934500 MISSOURI RIVER AT HERMANN, MO--Continued
(National Stream-Quality Accounting Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1969 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to September 1996.
WATER TEMPERATURE: October 1974 to September 1996.
DISSOLVED OXYGEN: June 1984 to September 1984, April 1985 to September 1985, April 1986 to September 1986.

INSTRUMENTATION.--Water-quality monitor, June 1984 to September 1984, April 1985 to September 1985, April 1986 to September 1986.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: (water years 1976 to 1996): Maximum daily, 2,150 microsiemens per centimeter, Dec. 9, 1978; minimum daily, 205 microsiemens per centimeter, Apr. 16, 1979.
WATER TEMPERATURE: (water years 1976 to 1996): Maximum daily, 32.5 °C, July 31, 1987; minimum daily, 0.0 °C on many days during winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. (cubic feet per second) (00061)	TURBIDITY LAB HACH 2100AN (NTU) (99872)	UV ABSORBANCE 254 NM, WTR FLT (units /cm) (50624)	UV ABSORBANCE 280 NM, WTR FLT (units /cm) (61726)	OXYGEN, DISSOLVED (mg/L) (00300)	OXYGEN, DISSOLVED (percent saturation) (00301)	pH WATER WHOLE FIELD (standard units) (00400)	SPECIFIC CONDUCTANCE (µS/cm) (00095)	TEMPERATURE WATER (deg C) (00010)	HARDNESS TOTAL (mg/L as $CaCO_3$) (00900)
OCT												
03...	1015	ENVIRONMENTAL	44900	28	--	--	9.0	99	8.3	775	19.5	240
03...	1016	REPLICATE	--	--	--	--	--	--	--	--	--	--
NOV												
29...	1135	ENVIRONMENTAL	44100	28	.082	.061	14.1	104	8.0	798	3.2	260
29...	1143	BLANK	--	--	--	--	--	--	--	--	--	--
JAN												
22...	1300	ENVIRONMENTAL	33500	--	.092	.067	16.0	113	7.9	431	1.5	240
22...	1308	BLANK	--	--	--	--	--	--	--	--	--	--
FEB												
05...	1235	ENVIRONMENTAL	40600	84	.132	.101	15.7	110	7.4	304	1.1	190
05...	1243	BLANK	--	--	--	--	--	--	--	--	--	--
28...	1315	ENVIRONMENTAL	224000	710	.141	.107	11.5	84	7.6	306	2.8	120
MAR												
08...	1050	ENVIRONMENTAL	93600	150	.104	.076	14.3	110	7.6	426	4.7	170
08...	1058	BLANK	--	--	--	--	--	--	--	--	--	--
08...	1100	REPLICATE	--	150	.103	.076	--	--	--	--	--	170
APR												
03...	1245	ENVIRONMENTAL	80400	110	.218	.171	9.4	79	7.5	469	8.0	180
03...	1253	BLANK	--	--	.007	.005	--	--	--	--	--	--
MAY												
01...	1000	ENVIRONMENTAL	93900	180	.164	.123	7.7	84	7.9	606	18.7	150
10...	1035	ENVIRONMENTAL	145000	1200	.196	.146	4.1	46	7.5	444	19.0	170
JUN												
07...	1125	ENVIRONMENTAL	340000	780	.185	.138	5.0	54	7.7	296	18.4	120
12...	1010	ENVIRONMENTAL	216000	360	.181	.134	4.9	58	7.8	338	22.7	140
25...	1135	ENVIRONMENTAL	211000	700	.172	.178	2.1	25	7.6	349	23.0	140
JUL												
17...	1010	ENVIRONMENTAL	82600	340	.126	.092	5.7	73	7.8	549	26.9	200
17...	1018	BLANK	--	--	--	--	--	--	--	--	--	--
AUG												
07...	1005	ENVIRONMENTAL	68800	70	.118	.084	5.7	76	8.0	581	30.0	210
07...	1015	REPLICATE	--	70	.118	.085	--	--	--	--	--	210
SEP												
13...	1130	ENVIRONMENTAL	47200	--	.088	.070	7.7	94	8.4	783	24.6	250

06934500 MISSOURI RIVER AT HERMANN, MO--Continued
(National Stream-Quality Accounting Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ALKA-LINITY WAT DIS FIX END FIELD (mg/L as $CaCO_3$) (39036)	ALKA-LINITY WAT DIS TOT IT FIELD (mg/L as $CaCO_3$) (39086)	BICAR-BONATE WATER DIS IT FIELD (mg/L as HCO_3) (00453)	CAR-BONATE WATER DIS IT FIELD (mg/L as CO_3) (00452)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SILICA, DIS-SOLVED (mg/L as SiO_2) (00955)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)
OCT													
03...	57.9	23.9	5.00	76.6	160	161	186	5	21.9	.5	7.0	198	500
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
29...	64.6	24.6	5.20	68.9	180	178	217	0	23.3	.5	10.2	200	525
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
22...	63.8	20.6	6.08	58.5	160	158	193	0	31.9	.4	12.7	142	473
22...	.01	<.001	--	<.025	--	--	--	--	--	--	M	--	--
FEB													
05...	51.4	14.8	6.20	38.9	130	129	157	0	33.4	.3	10.9	90.2	357
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	32.1	9.06	4.13	16.6	81	81	99	0	12.8	.2	6.5	40.5	192
MAR													
08...	48.0	12.3	5.22	23.6	120	129	157	0	17.6	.2	8.0	60.3	283
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	47.8	12.0	5.16	24.3	--	--	--	--	17.2	.2	8.0	60.2	282
APR													
03...	49.9	13.6	6.40	25.7	110	110	135	0	16.1	.3	11.6	71.6	311
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
01...	59.3	19.4	8.08	30.5	140	149	182	0	20.1	.3	14.3	113	396
10...	47.0	13.7	6.92	19.2	104	119	145	0	16.9	.3	11.5	72.7	300
JUN													
07...	32.5	8.49	4.55	11.4	84	84	103	0	8.8	.2	7.9	35.2	188
12...	39.3	9.79	4.96	13.7	98	98	119	0	8.6	.3	10.2	42.2	215
25...	39.3	9.83	5.07	15.9	91	93	113	0	13.2	.3	10	44.5	225
JUL													
17...	53.0	16.4	6.06	33.0	130	126	154	0	16.1	.3	10.8	102	356
17...	E.01	<.008	--	<.1	--	--	--	--	--	--	<.1	--	--
AUG													
07...	56.2	17.5	6.07	38.0	145	145	179	0	18.4	.3	11.6	116	371
07...	55.9	17.3	6.02	38.1	--	--	--	--	18.3	.3	11.6	116	373
SEP													
13...	62.7	22.3	7.13	67.0	160	161	182	7	23.2	.4	7.3	196	518

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (mg/L as N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	NITRO-GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (mg/L as C) (00688)	CARBON, ORGANIC DIS-SOLVED (mg/L as C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (mg/L as C) (00689)
OCT													
03...	<.020	.29	.73	.243	<.010	--	.064	.048	.198	--	--	3.5	1.5
03...	--	--	--	--	--	.325	--	--	--	2.4	<.1	3.5	2.4
NOV													
29...	.057	.33	.57	.721	E.005	.188	.072	.063	.180	1.9	<.1	3.1	1.9
29...	--	--	--	--	--	<.022	--	--	--	<.1	<.1	.71	<.1
JAN													
22...	.193	.60	.85	1.41	.021	.343	.108	.109	.245	2.4	<.1	4.0	2.3
22...	<.002	--	--	<.005	<.001	--	--	E.004	--	--	--	--	--
FEB													
05...	.308	.75	1.4	1.40	.021	.524	.104	.092	.351	4.4	--	5.2	--
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	.226	.69	3.5	1.01	.014	3.3	.057	.033	1.53	26	.5	5.3	25
MAR													
08...	.225	.62	1.2	1.21	.015	.531	.074	.055	.411	5.3	<.1	4.5	5.2
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	.225	.64	1.2	1.20	.015	.390	.075	.053	.374	4.5	.1	4.2	4.4
APR													
03...	<.041	.70	1.6	2.21	.042	.985	.151	.116	.482	7.9	<.1	5.8	7.9
03...	--	--	--	--	--	<.022	--	--	--	<.1	<.1	2.8	<.1
MAY													
01...	<.041	.48	1.4	2.41	.043	.946	.171	.147	.543	8.6	.1	5.2	8.4
10...	<.041	.54	.54	2.45	.027	E2.2	.117	.077	.115	24	.5	6.0	23
JUN													
07...	<.040	.41	3.6	1.69	.066	2.4	.078	.063	1.89	22	<.1	6.1	22
12...	<.040	.42	1.8	1.61	.054	.987	.097	.082	.912	11	<.1	6.0	11
25...	<.040	.36	2.8	1.87	.012	1.6	.092	.085	1.48	9.5	.5	5.3	9.1
JUL													
17...	<.040	.31	1.4	1.61	.010	.942	.147	.134	.750	9.1	.3	5.1	8.8
17...	.005	--	--	.008	<.001	--	--	<.007	--	--	--	--	--
AUG													
07...	<.040	.33	.76	1.48	<.006	.361	.146	.136	.273	2.8	<.1	3.9	2.8
07...	E.026	.35	.63	1.48	E.003	.267	.146	.137	.245	2.5	<.1	4.0	2.4
SEP													
13...	<.040	.33	2.1	.254	.008	.962	.107	.096	.200	8.1	<.1	4.1	8.0

06934500 MISSOURI RIVER AT HERMANN, MO--Continued
(National Stream-Quality Accounting Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PHEO-PHYTIN A, PHYTO-PHYTON (µg/L) (62360)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (µg/L) (70953)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ANTI-MONY, DIS-SOLVED (µg/L as Sb) (01095)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BARIUM, DIS-SOLVED (µg/L as Ba) (01005)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	BORON, DIS-SOLVED (µg/L as B) (01020)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)
OCT													
03...	--	490	K33	380	--	--	--	2.3	--	--	161	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
29...	4.8	43	300	56	4.1	35	.53	2.4	166	<.06	112	.04	<.8
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
22...	2.2	K48	120	110	7.4	--	--	2.3	--	--	98	--	--
22...	--	--	--	--	--	<.3	<.20	--	<.2	<.20	<2	<.30	<.2
FEB													
05...	17	440	520	1700	13.5	--	--	1.9	--	--	61	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	24	380	1200	9100	15.7	--	--	1.1	--	--	33	--	--
MAR													
08...	4.8	170	K300	2200	4.6	<1	.24	1.5	91.8	<.06	42	E.02	<.8
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	4.8	--	--	--	4.6	1	.23	1.6	91.2	<.06	43	E.02	<.8
APR													
03...	E5.3	K170	200	13000	E4.7	--	--	2.5	--	--	55	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
01...	7.8	110	K290	2000	11.7	--	--	3.9	--	--	69	--	--
10...	17	1400	2300	2400	7.7	--	--	2.5	--	--	48	--	--
JUN													
07...	15	4400	3400	6800	8.9	--	--	1.7	--	--	33	--	--
12...	10	1100	2800	1000	7.4	2	.27	2.0	84.5	<.06	37	<.04	<.8
25...	12	1500	1600	1400	5.9	--	--	2.1	--	--	40	--	--
JUL													
17...	12	490	530	K80	9.9	--	--	3.0	--	--	78	--	--
17...	--	--	--	--	--	<1	<.05	<.2	<1.0	<.06	<7	<.04	<.8
AUG													
07...	5.4	250	220	K33	9.3	3	.43	3.5	122	<.06	97	E.03	<.8
07...	5.8	--	--	--	9.3	3	.44	3.6	129	<.06	79	.05	<.8
SEP													
13...	53	K32	70	K14	103	--	--	3.8	--	--	111	--	--

DATE	COBALT, DIS-SOLVED (µg/L as Co) (01035)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LITHIUM DIS-SOLVED (µg/L as Li) (01130)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MOLYB-DENUM, DIS-SOLVED (µg/L as Mo) (01060)	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	STRON-TIUM, DIS-SOLVED (µg/L as Sr) (01080)	VANA-DIUM, DIS-SOLVED (µg/L as V) (01085)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)
OCT													
03...	--	--	20	--	49.1	--	--	--	<2.4	--	558	<10.0	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
29...	.25	2.6	50	.14	44.8	14.9	3.2	2.12	E1.3	<1.0	537	<8.0	14
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
22...	--	--	<10	--	33.1	--	--	--	2.3	--	460	3.7	--
22...	<.20	<.2	<3	<.30	--	<.1	<.2	<.50	--	<.2	<.10	--	<.5
FEB													
05...	--	--	20	--	19.6	--	--	--	1.6	--	343	2.5	--
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	20	--	7.7	--	--	--	.6	--	183	2.1	--
MAR													
08...	.17	1.7	<10	<.08	10.9	1.7	1.8	1.64	1.4	<1.0	277	2.0	<1
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	.17	1.8	<10	<.08	11.0	1.6	1.8	1.76	1.4	<1.0	274	2.1	<1
APR													
03...	--	--	120	--	14.1	--	--	--	2.2	--	309	2.5	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
01...	--	--	<10	--	20.8	--	--	--	2.9	--	352	4.7	--
10...	--	--	<10	--	12.7	--	--	--	2.2	--	258	4.7	--
JUN													
07...	--	--	10	--	5.7	--	--	--	.9	--	164	3.2	--
12...	.14	2.3	M	<.08	7.8	1.4	1.7	2.45	1.1	<1.0	191	3.7	1
25...	--	--	<10	--	8.7	--	--	--	1.3	--	221	3.4	--
JUL													
17...	--	--	<10	--	24.7	--	--	--	2.0	--	329	4.4	--
17...	<.02	<.2	<10	<.08	<.3	<.1	<.2	<.06	<.3	<1.0	<.08	<.2	1
AUG													
07...	.12	2.3	<10	E.07	31.6	.5	3.2	.67	2.2	<1.0	358	4.6	2
07...	.13	2.5	<10	E.07	23.4	.6	3.3	.70	2.3	<1.0	360	4.9	2
SEP													
13...	--	--	<10	--	43.0	--	--	--	3.2	--	485	5.1	--

06934500 MISSOURI RIVER AT HERMANN, MO--Continued
(National Stream-Quality Accounting Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	2,6-DIETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETOCHLOR, WATER FLTRD REC (µg/L) (49260)	ALACHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DISSOLVED (µg/L) (34253)	ATRAZINE, WATER, DISS, REC (µg/L) (39632)	BENFLURALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYLATE, WATER, DISS, REC (µg/L) (04028)	CARBARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBOFURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLORPYRIFOS DISSOLVED (µg/L) (38933)	CYANAZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (µg/L) (04040)
OCT													
03...	<.002	<.004	<.002	<.005	.077	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
29...	<.002	<.004	<.002	<.005	.051	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.013
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
22...	<.002	.018	<.002	<.005	.152	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.003
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
05...	<.002	<.004	<.002	<.005	.203	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.006
05...	<.002	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006
28...	<.002	.007	<.002	<.005	.214	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.027
MAR													
08...	<.002	.015	.007	<.005	.274	<.010	<.002	<.041	<.020	<.005	E.006	<.003	E.059
08...	<.002	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<.002	.011	.022	<.005	.142	<.010	<.002	<.041	<.020	<.005	E.008	<.003	E.043
03...	<.002	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006
MAY													
01...	<.002	.198	.010	<.005	.403	<.010	<.002	<.041	<.020	<.005	E.007	<.003	E.039
10...	<.002	2.57	.124	<.005	12.9	<.010	<.002	<.041	<.020	<.005	.043	<.003	E.405
JUN													
07...	<.002	.368	.187	<.005	2.03	<.010	<.002	<.041	<.020	<.005	E.016	<.003	E.150
12...	<.002	.267	.119	<.005	1.56	<.010	<.002	<.041	<.020	<.005	.020	<.003	E.254
25...	<.002	.284	.118	<.005	1.99	<.010	<.002	<.041	<.020	<.005	E.014	<.003	E.293
JUL													
17...	<.099	.158	.124	<.094	.685	<.079	<.101	E.124	E.111	<.095	E.113	<.101	E.187
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
07...	<.002	.016	.010	<.005	.359	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.076
07...	<.002	.018	.012	<.005	.355	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.114
SEP													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIAZINON, DISSOLVED (µg/L) (39572)	DIELDRIN DISSOLVED (µg/L) (39381)	DISULFOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHALFLURALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	ETHOPROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DISSOLVED (µg/L) (39341)	LINURON WATER FLTRD 0.7µ GF, REC (µg/L) (82666)	MALATHION, DISSOLVED (µg/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARATHION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METOLACHLOR WATER DISSOLV (µg/L) (39415)
OCT													
03...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.061
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
29...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.030	.014
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
22...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.042
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
05...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.031
05...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013
28...	.007	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.020
MAR													
08...	E.004	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.094
08...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.141
03...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013
MAY													
01...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	E.005	.240
10...	E.004	<.005	<.021	.031	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	2.43
JUN													
07...	.040	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.776
12...	E.004	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.694
25...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.735
JUL													
17...	.114	<.107	<.098	<.104	<.095	<.099	<.103	<.094	<.106	<.075	E.159	<.110	.297
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
07...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.121
07...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.122
SEP													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--

06934500 MISSOURI RIVER AT HERMANN, MO--Continued
(National Stream-Quality Accounting Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA-THION, DIS-SOLVED (µg/L) (39542)	PEB-ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO-PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)
OCT													
03...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
29...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.003	<.004	<.010	<.011
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
22...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
05...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011
05...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011
28...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011
MAR													
08...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.005	<.004	<.010	<.011
08...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.004	<.004	<.010	<.011
03...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011
MAY													
01...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.004	<.004	<.010	<.011
10...	.108	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.007	<.004	<.010	<.011
JUN													
07...	.038	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.008	<.004	<.010	<.011
12...	.040	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.007	<.004	<.010	<.011
25...	.037	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.013	<.004	<.010	<.011
JUL													
17...	<.111	<.101	<.124	<.078	<.120	<.101	<.106	<.056	<.101	E.106	<.103	<.113	<.109
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
07...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.009	<.004	<.010	<.011
07...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.010	<.004	<.010	<.011
SEP													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PRO-PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI-MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER-BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)	URANIUM NATURAL DIS-SOLVED (µg/L as U) (22703)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 mm (70331)	SEDI-MENT, SUS-PENDED (mg/L) (80154)
OCT											
03...	<.023	<.011	<.016	<.034	<.017	<.005	<.002	<.009	--	60	127
03...	--	--	--	--	--	--	--	--	--	58	132
NOV											
29...	<.023	E.002	<.016	<.034	<.017	<.005	<.002	<.009	4.12	33	130
29...	--	--	--	--	--	--	--	--	--	--	--
JAN											
22...	<.023	<.011	<.016	<.034	<.017	<.005	<.002	<.009	--	34	140
22...	--	--	--	--	--	--	--	--	<.20	--	--
FEB											
05...	<.023	.011	<.016	<.034	<.017	<.005	<.002	<.009	--	51	298
05...	<.023	<.011	<.016	<.034	<.017	<.005	<.002	<.009	--	--	--
28...	<.023	.018	<.016	<.034	<.017	<.005	<.002	<.009	--	81	2180
MAR											
08...	<.023	E.011	<.016	<.034	<.017	<.005	<.002	<.009	2.14	61	421
08...	<.023	<.011	<.016	<.034	<.017	<.005	<.002	<.009	--	--	--
08...	--	--	--	--	--	--	--	--	2.17	53	475
APR											
03...	<.023	<.011	<.016	<.034	<.017	<.005	<.002	<.009	--	70	376
03...	<.023	<.011	<.016	<.034	<.017	<.005	<.002	<.009	--	--	--
MAY											
01...	<.023	E.008	<.016	<.034	<.017	<.005	<.002	<.009	--	82	397
10...	<.023	.234	<.016	<.034	<.017	<.005	<.002	E.005	--	95	3060
JUN											
07...	<.023	.046	<.016	<.034	<.017	<.005	<.002	<.009	--	82	2560
12...	<.023	.039	<.016	<.034	<.017	<.005	<.002	<.009	1.46	83	1140
25...	<.023	.025	<.016	<.034	<.017	<.005	<.002	<.009	--	90	1770
JUL											
17...	<.385	E.110	<.102	E.105	<.096	<.104	<.100	<.085	--	92	620
17...	--	--	--	--	--	--	--	--	<.02	--	--
AUG											
07...	<.023	E.007	<.016	<.034	<.017	<.005	<.002	<.009	3.29	78	149
07...	<.023	E.008	<.016	<.034	<.017	<.005	<.002	<.009	3.51	77	155
SEP											
13...	--	--	--	--	--	--	--	--	--	75	114

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

06935755 BONHOMME CREEK NEAR ELLISVILLE, MO

LOCATION.--Lat 38°36'35", long 90°40'20", St. Louis County, Hydrologic Unit 10300200, on right downstream side of Rieger Road bridge, 0.14 mi southwest of State Road 109, 1.56 mi north of State Road 100 (Manchester Road), 1.25 mi west of St. Louis County Highway C, and 9.55 mi upstream of Missouri River.

DRAINAGE AREA.--4.44 mi^2.

PERIOD OF RECORD.--September 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 568.56 ft above sea level.

REMARKS.--Records fair except estimated daily discharges and those below .5 ft^3/s and above 500 ft^3/s, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 23, 1973 reached a stage of 8.64 ft, former datum, discharge, 2,640 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.27	.39	.17	.66	1.0	.54	.29	.61	.13	.02	.02
2	.06	.32	.44	.17	.48	.92	.56	.26	.31	.20	.01	.01
3	.05	.31	.40	.14	.40	.82	5.9	.24	.61	.09	.01	.00
4	.35	.28	.39	.14	.39	.73	2.0	.23	1.9	.08	.01	.01
5	1.4	.27	.39	.15	.36	.65	1.3	.26	.82	.04	.01	.11
6	.27	1.5	.37	.23	.39	.60	1.2	.23	4.6	.05	.01	3.0
7	.15	.81	.37	e2.1	.35	.58	1.0	.43	.78	.05	.02	1.0
8	.11	.45	.38	e1.4	.32	.55	.95	.23	.44	.06	2.7	.30
9	.10	6.2	.36	e1.1	2.9	.53	1.1	.19	.33	.06	.42	1.3
10	.09	1.1	.37	e.77	.75	.51	9.2	.18	.25	.04	.05	1.3
11	.09	.60	.48	e.36	.46	.50	3.3	.18	.21	.04	.04	.47
12	.08	.57	.48	e.56	.42	.49	2.3	.17	.17	.04	.02	.25
13	.08	1.1	.38	e1.5	.45	.47	1.4	.15	.17	.06	.01	.14
14	.08	.64	.46	e7.1	.62	.47	1.1	.15	.94	.03	.01	.09
15	.18	.51	.44	e3.2	.54	14	6.5	.15	14	.02	.01	.06
16	9.2	.47	.49	e1.9	.45	6.8	1.8	.14	.41	.02	.01	.05
17	2.1	.44	.47	e1.0	.35	2.0	1.2	.13	.23	.02	.02	.03
18	.34	.40	.45	.53	.31	1.5	1.0	27	.18	.07	.02	4.9
19	.23	.39	.43	.44	.32	1.2	.95	6.6	.16	.35	.00	1.3
20	.21	.38	.38	.37	.32	1.0	.82	.71	22	2.5	.01	.46
21	.22	.36	.37	.36	.28	.90	.70	2.4	1.3	.27	.01	.35
22	.25	.34	.32	.33	.29	.90	.62	.47	.68	.19	.00	.24
23	.25	.34	.30	.33	.30	.80	.72	.29	.46	.06	.00	.17
24	.25	.34	.27	.31	52	.74	.56	.23	.30	3.0	.05	.13
25	.26	1.1	.25	.30	8.7	.67	.48	.28	.23	.16	.34	.10
26	.27	.87	.24	.76	1.9	.63	.43	.32	.15	.07	.41	.06
27	.29	.59	.26	.40	1.5	.60	.40	.23	.12	.09	.16	.05
28	.28	.48	.23	.32	1.2	.59	.39	.17	.13	.10	.09	.04
29	.28	.43	.21	12	---	.59	.30	.16	.12	.08	.06	.03
30	.28	.40	.19	2.2	---	.59	.30	.20	.09	.06	.04	.03
31	.28	---	.18	.92	---	.59	---	17	---	.06	.04	---
MEAN	.59	.74	.36	1.34	2.76	1.38	1.63	1.92	1.76	.26	.15	.53
MAX	9.2	6.2	.49	12	52	14	9.2	27	22	3.0	2.7	4.9
MIN	.05	.27	.18	.14	.28	.47	.30	.13	.09	.02	.00	.00
IN.	.15	.18	.09	.34	.62	.35	.40	.48	.43	.07	.04	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	.42	1.09	.71	3.92	6.05	4.88	2.65	4.08	6.54	1.69	.55	.32
MAX	.59	2.74	1.25	11.2	11.2	13.2	4.47	10.6	13.7	3.95	1.07	.53
(WY)	2001	1999	1998	1999	1999	1998	1998	2000	1998	1998	1998	2001
MIN	.22	.12	.36	.13	2.53	1.03	.39	1.29	.71	.26	.14	.006
(WY)	2000	2000	2001	2000	2000	2000	2000	1999	1999	2001	1999	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	2.34		1.11		2.72	
HIGHEST ANNUAL MEAN					4.35	1998
LOWEST ANNUAL MEAN					1.11	2001
HIGHEST DAILY MEAN	246	May 7	52	Feb 24	246	May 7 2000
LOWEST DAILY MEAN	.05	Jan 28,Sep 21,Oct 3	.00	Aug 19,22,23,Sep 3	.00	1999,2001
ANNUAL SEVEN-DAY MINIMUM	.07	Sep 17	.01	Aug 17	.00	Sep 6 1999
MAXIMUM PEAK FLOW	---		414[a]	Feb 24	4930[a]	Jun 24 2000
MAXIMUM PEAK STAGE	---		5.18	Feb 24	9.11	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	1999,2001
ANNUAL RUNOFF (INCHES)	6.91		3.26		8.01	
10 PERCENT EXCEEDS	1.4		1.6		3.9	
50 PERCENT EXCEEDS	.31		.35		.43	
90 PERCENT EXCEEDS	.12		.04		.08	

e Estimated
[a] From rating extended above 243 ft^3/s.

06935770 BONHOMME CREEK NEAR CLARKSON VALLEY, MO

LOCATION.--Lat 38°39'28", long 90°37'10", St. Louis County, Hydrologic Unit 10300200, on right downstream wingwall of Highway CC Bridge, 0.96 mi south of U.S. Highway 40, 3.3 mi west of State Highway 340, 1.48 mi east of County Highway C, and 1.48 mi upstream from Missouri River.

DRAINAGE AREA.--11.3 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 449.19 ft above sea level.

REMARKS.--Water-discharge records fair except for estimated daily discharges and those above 1,300 ft^3/s, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 20, 1974 reached a stage of 16.59 ft, former datum, discharge 2,340 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.51	1.4	.72	e.48	2.7	4.7	2.3	2.0	3.9	1.3	.59	.71
2	.55	1.6	.73	e.48	2.4	4.2	2.3	1.8	2.1	1.5	.52	.61
3	.64	1.7	.71	e.46	1.9	3.8	18	1.7	4.6	1.2	.51	.58
4	.62	1.3	.71	e.46	1.5	3.3	9.4	1.6	10	1.1	.50	.64
5	9.6	1.2	.71	e.78	1.2	2.8	5.9	2.0	5.3	2.2	.50	.59
6	2.0	6.1	.71	2.0	1.1	2.7	4.9	1.7	17	.62	.46	2.6
7	.80	4.0	.71	2.9	1.1	2.7	4.5	1.6	5.0	.51	.45	1.8
8	.53	1.5	.69	2.0	1.1	2.4	3.9	1.8	2.7	.49	2.2	1.4
9	.41	11	.59	1.6	7.7	2.3	4.2	1.6	2.1	.51	22	2.3
10	.34	6.2	.57	1.3	5.0	2.2	20	1.3	1.6	.51	3.2	1.6
11	.34	1.7	e.72	.84	2.5	2.1	9.5	1.3	1.4	.49	1.3	1.2
12	.35	1.3	e.75	1.0	1.9	2.2	9.9	1.4	1.3	1.2	1.0	1.0
13	.43	2.6	e.62	2.0	1.9	2.2	5.8	1.4	1.1	.64	.75	.90
14	.51	1.6	e.70	8.9	7.3	2.0	5.0	1.4	18	.46	.60	.71
15	1.7	1.0	e.68	4.7	3.8	26	14	1.6	78	.41	.51	.60
16	12	.80	e.76	2.6	2.6	36	6.7	1.9	3.8	.40	.75	.57
17	12	.76	e.73	1.8	2.0	8.8	5.1	1.8	2.3	.39	.71	.58
18	2.0	.64	e.69	1.6	1.6	6.0	4.3	25	1.8	4.0	.64	3.6
19	1.1	.62	e.67	1.4	1.5	4.9	4.0	20	1.4	1.9	.58	4.2
20	.78	.57	e.63	1.2	1.6	4.2	3.6	2.7	29	9.0	.57	1.7
21	.82	.57	e.62	1.0	1.6	3.7	3.4	6.0	5.9	3.0	.53	2.4
22	1.5	.57	e.57	.91	1.5	3.6	3.1	2.1	3.5	1.4	.56	1.9
23	1.9	.57	e.56	.83	1.6	3.3	4.0	1.3	2.3	.97	.76	1.3
24	1.7	.57	e.53	.79	148	3.0	3.3	1.1	1.7	7.8	2.5	1.0
25	1.7	2.2	e.50	.75	40	2.7	2.7	1.9	1.4	2.6	2.2	.82
26	1.6	2.5	e.49	.81	9.3	2.5	2.7	2.2	1.2	1.1	1.7	.69
27	1.5	1.5	e.53	1.2	6.7	2.5	2.3	1.3	1.1	.98	.90	.61
28	1.4	1.1	e.51	.97	5.4	2.4	2.2	1.1	.94	.88	.87	.41
29	1.4	.82	e.51	15	---	2.4	1.9	1.0	.87	.83	.77	.30
30	1.4	.79	e.49	13	---	2.4	1.8	1.5	.87	.79	.71	.23
31	1.4	---	e.48	4.9	---	2.4	---	33	---	.66	.71	---
MEAN	2.05	1.96	.63	2.54	9.52	5.05	5.69	4.13	7.07	1.61	1.63	1.25
MAX	12	11	.76	15	148	36	20	33	78	9.0	22	4.2
MIN	.34	.57	.48	.46	1.1	2.0	1.8	1.0	.87	.39	.45	.23
IN.	.20	.19	.06	.25	.86	.50	.55	.41	.68	.16	.16	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	2.02	3.30	2.33	8.34	20.4	14.8	8.73	13.1	15.6	4.39	2.38	1.66
MAX	2.94	6.11	4.68	18.8	36.6	40.9	14.5	35.2	28.9	8.51	3.25	2.69
(WY)	1998	1998	1998	1999	1999	1998	1998	2000	2000	1998	2000	1997
MIN	.79	.96	.63	.96	9.52	3.09	1.72	4.13	3.31	1.08	1.44	.69
(WY)	2000	2000	2001	2000	2001	2000	2000	2001	1999	1997	1999	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	7.80		3.54		8.04	
HIGHEST ANNUAL MEAN					12.3	1998
LOWEST ANNUAL MEAN					3.54	2001
HIGHEST DAILY MEAN	932	May 7	148	Feb 24	932	May 7 2000
LOWEST DAILY MEAN	.20	Sep 16-19	.23	Sep 30	.20	Oct 6 1999, Sep 16-19 2000
ANNUAL SEVEN-DAY MINIMUM	.22	Sep 14	.42	Oct 8	.22	Sep 14 2000
MAXIMUM PEAK FLOW			794	Feb 24	3540[a]	Jun 24 2000
MAXIMUM PEAK STAGE			12.42	Feb 24	19.62	Jun 24 2000
INSTANTANEOUS LOW FLOW			.20	Sep 30	.17	Dec 6 1999
ANNUAL RUNOFF (INCHES)	9.16		4.15		9.42	
10 PERCENT EXCEEDS	5.5		6.0		12	
50 PERCENT EXCEEDS	1.3		1.5		2.0	
90 PERCENT EXCEEDS	.51		.53		.57	

e Estimated
[a] From rating extended above 631 ft^3/s.

06935770 BONHOMME CREEK NEAR CLARKSON VALLEY, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
DEC												
19...	0830	ENVIRONMENTAL	e.67	11.8	81.4	7.6	946	.4	268	81.0	16.0	196
FEB												
14...	0837	ENVIRONMENTAL	13	12.5	98.3	7.2	733	5.0	226	69.0	13.0	153
28...	1230	ENVIRONMENTAL	5.4	13.7	106	7.0	640	4.8	171	53.0	9.50	133
MAR												
15...	2205	ENVIRONMENTAL	89	12.3	111	7.2	479	10.1	150	45.0	9.10	113
MAY												
30...	1145	ENVIRONMENTAL	.95	5.4	59.4	7.5	574	19.1	226	69.0	13.0	201
AUG												
28...	1100	ENVIRONMENTAL	.87	3.2	38.1	7.3	586	23.2	244	73.0	15.0	200

DATE	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2) (00405)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)
DEC													
19...	196	240	0	310	8	.39	.07	.6	<.01	.030	.070	8.7	8
FEB													
14...	152	187	0	--	49	.49	.06	.6	.02	.010	.090	20.0	10
28...	136	166	0	93.0	25	.45	.05	1.2	.01	.040	.080	25.7	8
MAR													
15...	114	139	0	--	600	2.8	.38	.4	.01	.180	.680	13.2	42
MAY													
30...	204	249	0	--	22	.60	.10	.4	.01	.040	.080	12.6	22
AUG													
28...	201	245	0	--	95	.80	.13	.5	.01	.070	.220	19.8	18

DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)
DEC													
19...	66	120	86	E28	<1.0	<1.00	<1.00	2.0	<1.0	90	<1.00	220	<.10
FEB													
14...	K200	K1000	K290	80	<1.0	<1.00	<1.00	2.0	1.6	110	<1.00	280	<.10
28...	120	K250	K42	36	<1.0	<1.00	<1.00	1.0	<1.0	40	<1.00	160	<.10
MAR													
15...	2800	K500	10000	200	1.3	<1.00	<1.00	<1.0	1.6	220	<1.00	240	<.10
MAY													
30...	400	580	940	35	1.8	<1.00	<1.00	<1.0	1.3	50	<1.00	350	<.10
AUG													
28...	370	K1500	200	21	2.5	<1.00	<1.00	<1.0	<1.0	30	<1.00	304	<.10

06935770 BONHOMME CREEK NEAR CLARKSON VALLEY, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	2,4,6-TRI-CHLORO-PHENOL TOTAL (µg/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (µg/L) (34601)	2,4,-DI-NITRO-PHENOL TOTAL (µg/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (µg/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (µg/L) (34626)
DEC													
19...	<1.00	<1.0	<1.0	30	--	--	--	--	--	--	--	--	--
FEB													
14...	<1.00	<1.0	<1.0	87	--	<1	<1	<1	<2	<2	<20	<1	<1
28...	<1.00	<1.0	<1.0	56	--	--	--	--	--	--	--	--	--
MAR													
15...	1.40	<1.0	<1.0	20	<1	<1	<1	<1	<2	<2	<20	<1	<1
MAY													
30...	3.30	<1.0	<1.0	146	--	--	--	--	--	--	--	--	--
AUG													
28...	1.30	<1.0	<1.0	60	--	--	--	--	--	--	--	--	--

DATE	2-CHLORO-NAPH-THALENE TOTAL (µg/L) (34581)	2-CHLORO-PHENOL TOTAL (µg/L) (34586)	2-NITRO-PHENOL TOTAL (µg/L) (34591)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (µg/L) (34631)	4,6-DINITRO -ORTHO-CRESOL TOTAL (µg/L) (34657)	4-BROMO-PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4-NITRO-PHENOL TOTAL (µg/L) (34646)	ACE-NAPHTH-ENE TOTAL (µg/L) (34205)	ACE-NAPHTH-YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA-CENE TOTAL (µg/L) (34220)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
14...	<1	<1	<1	<1	<2	<1	<1	<1	<.9	<1	<.013	<1	<2
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<1	<1	M	<1	<2	<1	<1	<1	<.9	<1	<.013	<1	<2
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZI-DINE TOTAL (µg/L) (39120)	BENZO-A-PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR-AN-THENE TOTAL (µg/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA-CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO-[GHI]-PERY-LENE TOTAL (µg/L) (34521)	BIS(2-CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2-CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (µg/L) (39100)	CARBO-PHENO-THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
14...	<40	<1	<2	<2	<1	<1	<1	<1	<1	<9	<.02	<.1	<.01
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<40	M	M	M	<1	M	<1	<1	<1	<9	<.02	<.1	E.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CHRY-SENE TOTAL (µg/L) (34320)	CYCLOPE NTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)	DI-N-OCTYL PHTHAL-ATE TOTAL (µg/L) (34596)	DISUL-FOTON UNFILT RECOVER (µg/L) (39011)	ENDO-SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
14...	<1	<1	<.02	<.02	<.006	<2	<2	<2	<1	<.03	<.015	<.014	<.01
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<1	<1	<.02	E.02	<.006	<2	M	M	<1	<.13	<.015	<.014	<.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

06935770 BONHOMME CREEK NEAR CLARKSON VALLEY, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	FLUOR-ANTHENE TOTAL (µg/L) (34376)	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (µg/L) (34403)	ISO-PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA-THION, TOTAL (µg/L) (39530)	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
14...	M	<1	<.01	<.009	<.014	<1	<2	M	<.006	<.03	<.01	<.01	<.01
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	M	<1	<.01	<.009	<.014	<1	M	M	<.006	<.03	<.01	<.01	<.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	N-BUTYL BENZYL PHTHAL-ATE TOTAL (µg/L) (34292)	N-NITRO-SODI-METHYL-AMINE TOTAL (µg/L) (34438)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (µg/L) (34428)	N-NITRO-SODI-PHENYL-AMINE TOTAL (µg/L) (34433)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARA-CHLORO-META CRESOL TOTAL (µg/L) (34452)	PARA-THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PHENAN-THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
14...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	<2	<1	<2
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	M	M
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX-APHENE, TOTAL (µg/L) (39400)	1,1,1-TRI-CHLORO-ETHANE TOTAL (µg/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (µg/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (µg/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
14...	<.02	M	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.02	M	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

06935770 BONHOMME CREEK NEAR CLARKSON VALLEY, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BENZENE TOTAL (µg/L) (34030)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (µg/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (µg/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µg/L) (50004)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
14...	<.10	<.20	<.20	<.10	.2	.26	<.10	.24	<.2	<.2	<1.0	<.2	<.10
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
14...	<.2	<.10	<.10	<1.3	<.2	<.2	<.20	<1.2	<.10	<.10	<.1	<.10	<.10
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.2	<.10	<.10	<1.3	<.2	<.2	<.20	<1.2	<.10	<.10	<.1	<.10	<.10
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC		
19...	--	--
FEB		
14...	<.20	<.2
28...	--	--
MAR		
15...	<.20	<.2
MAY		
30...	--	--
AUG		
28...	--	--

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

06935830 CAULKS CREEK AT CHESTERFIELD, MO

LOCATION.--Lat 38°39'16", long 90°35'42", St. Louis County, Hydrologic Unit 10300200, on downstream side of middle pier of Highway CC bridge, 2.0 mi west of State Highway 340, 1.1 mi south of U.S. Route 40, and 1.09 mi upstream of Bonhomme Creek.

DRAINAGE AREA.--17.1 mi^2.

PERIOD OF RECORD.--July 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 453.98 ft above sea level.

REMARKS.--Records fair except for discharges above 1,100 ft^3/s, which are poor. For periods June 26-28 and Aug. 17 to Sept. 7, gage height readings were erratic due to man-made regulation upstream at construction site. This regulation affected the minimum discharge for the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 23, 1973 reached a stage of 18.40 ft, former datum, discharge 3,580 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	6.3	7.3	6.0	11	12	6.7	6.4	30	11	5.6	1.9
2	7.2	7.1	7.3	5.8	9.2	11	6.2	6.0	14	14	5.4	3.0
3	6.9	7.6	7.1	5.7	8.2	9.0	35	5.8	13	8.9	5.3	4.1
4	6.5	7.2	7.1	5.8	7.8	8.1	33	5.5	26	8.7	5.3	8.0
5	34	6.8	6.9	5.7	7.5	7.2	14	5.5	24	12	5.1	7.4
6	14	19	6.8	5.7	7.0	6.8	10	5.7	35	8.8	5.1	9.7
7	8.6	15	6.8	12	6.5	6.6	9.2	5.3	27	7.9	5.0	9.6
8	7.9	8.2	6.5	11	6.0	6.4	8.3	5.4	26	7.5	20	6.2
9	6.9	35	6.5	9.4	20	6.1	8.2	5.3	35	7.3	34	11
10	6.2	33	6.4	8.3	20	5.9	49	5.1	22	7.2	13	12
11	5.7	14	7.9	7.3	10	5.8	31	5.0	8.1	7.1	7.6	6.6
12	5.5	11	9.4	7.1	8.6	5.6	26	4.7	7.5	9.3	6.3	5.1
13	5.3	22	6.8	7.6	8.4	5.4	18	4.6	7.1	8.9	5.7	4.8
14	5.3	13	5.7	28	14	5.2	11	4.6	12	7.5	5.3	4.6
15	11	10	5.4	15	11	53	41	4.7	183	7.0	5.2	4.9
16	44	9.3	7.9	8.9	9.4	83	25	5.0	20	6.8	6.0	4.5
17	54	8.8	8.5	7.7	8.0	32	12	5.1	11	6.8	5.5	4.3
18	16	8.5	7.4	7.4	7.6	15	10	131	8.8	8.4	5.4	16
19	10	8.3	7.3	7.1	7.2	12	9.5	86	7.9	13	5.1	17
20	8.4	8.1	7.1	6.8	6.8	9.8	9.2	22	154	34	4.7	12
21	7.9	7.9	7.1	6.6	6.5	8.8	8.8	28	29	14	4.4	6.7
22	7.8	7.6	7.0	6.5	6.1	9.5	8.3	13	20	9.1	6.2	5.8
23	8.1	7.4	6.8	6.3	5.8	8.8	9.2	9.4	13	7.5	5.1	5.1
24	7.6	7.2	6.8	6.1	233	8.2	8.7	8.5	10	24	11	4.3
25	7.4	15	6.5	6.0	105	7.6	7.6	9.6	9.6	12	7.6	4.4
26	7.3	17	6.5	5.8	41	7.4	7.2	13	9.0	8.1	7.9	4.2
27	7.1	8.9	6.5	5.6	21	7.2	7.1	8.7	8.6	7.0	5.3	4.2
28	6.9	7.7	6.3	5.5	15	7.1	6.6	7.6	7.9	6.6	5.3	4.2
29	6.7	7.6	6.3	24	---	7.1	6.0	6.9	8.0	6.3	5.1	4.1
30	6.5	7.5	6.3	46	---	6.8	5.9	7.5	8.0	6.0	4.8	4.2
31	6.4	---	6.0	18	---	6.5	---	133	---	5.8	2.9	---
MEAN	11.3	11.7	6.91	10.2	22.4	12.6	14.9	18.5	26.5	9.95	7.30	6.66
MAX	54	35	9.4	46	233	83	49	133	183	34	34	17
MIN	5.3	6.3	5.4	5.5	5.8	5.2	5.9	4.6	7.1	5.8	2.9	1.9
IN.	.76	.77	.47	.68	1.37	.85	.97	1.25	1.73	.67	.49	.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	10.8	21.9	9.48	20.1	46.4	30.0	18.2	27.9	34.4	16.6	13.2	10.1
MAX	12.3	62.0	14.2	34.4	72.6	78.1	29.2	76.8	59.3	35.4	20.2	21.9
(WY)	1997	1997	1997	1999	1999	1998	1998	2000	1998	1998	1996	1996
MIN	8.15	6.33	5.76	5.33	22.4	9.70	6.64	12.5	8.40	9.95	7.30	4.33
(WY)	2000	2000	1999	2000	2001	2000	2000	1999	1999	2001	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL MEAN	20.5		13.2		21.1	
HIGHEST ANNUAL MEAN					30.4	1998
LOWEST ANNUAL MEAN					13.2	2001
HIGHEST DAILY MEAN	1920	May 7	233	Feb 24	1920	May 7 2000
LOWEST DAILY MEAN	3.4	Jan 16	4.1[a]	Sep 29	3.4[a]	Jan 16 2000
LOWEST DAILY MEAN	---		1.9[b]	Sep 1	1.9[b]	Sep 1 2001
ANNUAL SEVEN-DAY MINIMUM	4.0	Jan 10	3.9	Aug 28	3.7	Sep 21 1999
MAXIMUM PEAK FLOW	---		1840[c]	Jun 15	10900[c]	Jun 24 2000
MAXIMUM PEAK STAGE	---		8.44	Jun 15	14.95	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		3.5[a]	Sep 17	3.5	Sep 25 1999, Sep 17 2001
INSTANTANEOUS LOW FLOW	---		.61[b]	Sep 4	.61[b]	Sep 4 2001
ANNUAL RUNOFF (INCHES)	16.33		10.44		16.77	
10 PERCENT EXCEEDS	18		24		33	
50 PERCENT EXCEEDS	7.4		7.6		8.7	
90 PERCENT EXCEEDS	5.1		5.2		5.1	

[a] Minimum outside period of regulation.
[b] Minimum during period of regulation. Verified by field visit.
[c] From rating extended above 544 ft^3/s.

06935850 CREVE COEUR CREEK AT CHESTERFIELD, MO

LOCATION.--Lat 38°38'47", long 90°31'35", in SW $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec.13, T.45 N., R.4 E., St. Louis County, Hydrologic Unit 10300200, on left downstream abutment of Highway 40 bridge, 3.71 mi north of State Highway 100 (Manchester Road), 0.75 mi west of State Highway 141, and 10.33 mi upstream of Missouri River.

DRAINAGE AREA.--5.62 mi^2.

PERIOD OF RECORD.--June 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 495.20 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges and those above 600 ft^3/s and below 1 ft^3/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.16	.66	e.41	1.6	1.6	.84	.81	2.4	28	.24	.05
2	.12	6.6	2.1	e.32	.70	1.6	.60	.53	.70	3.5	.33	.05
3	.09	3.7	1.1	e.35	.53	1.1	40	.41	6.1	.66	.27	.05
4	.47	1.1	.73	e.39	.59	.77	4.3	.39	11	2.5	.31	.05
5	20	.37	.57	e.77	.60	.67	1.8	.39	3.6	.67	.29	.04
6	.68	20	e.35	e1.9	.56	.64	1.3	.52	15	.56	.26	.07
7	.46	1.5	.60	e3.6	.62	.68	1.2	.44	2.1	.47	.21	.36
8	.31	.40	.60	e1.9	.67	.68	1.1	.35	.83	.53	.22	.49
9	.22	61	.54	e1.7	42	.67	12	.43	.44	.43	3.0	7.7
10	.28	6.6	.53	.55	5.8	.68	18	.44	.39	.33	2.0	.79
11	.21	.88	3.5	.52	2.3	.67	11	.37	.41	.30	.32	.15
12	.18	7.0	e2.9	.93	1.4	.60	3.9	.42	.38	3.9	.20	.12
13	.15	17	.75	12	5.3	.69	1.1	.43	.43	.74	.13	.09
14	.33	1.2	e1.0	33	13	.87	1.1	.47	11	.30	.09	.07
15	8.1	.76	e.92	4.7	4.3	73	24	.55	57	.26	.08	.05
16	56	1.5	e1.8	1.7	2.1	26	1.5	.56	1.6	.25	.23	.05
17	12	1.2	e1.7	1.1	1.3	4.2	.75	.69	.72	.23	.15	.05
18	1.1	1.1	e1.2	.89	.73	2.0	.70	118	.96	5.0	.10	13
19	.76	.87	e.57	.68	.66	1.6	.73	31	1.2	2.1	.10	1.6
20	.72	.72	e.61	.57	.60	1.2	.73	6.4	35	77	.10	.41
21	.31	.59	e.59	.49	.66	.91	.68	16	5.8	2.0	.08	1.3
22	3.1	.53	e.45	.46	1.2	2.1	.68	1.5	2.0	.51	.06	.36
23	3.7	.50	e.38	.44	1.1	1.1	1.6	.95	.80	.33	.10	.50
24	2.6	.65	e.53	.43	172	1.5	.73	.95	.51	2.4	3.4	.45
25	2.9	27	e.37	.35	27	.72	.57	5.5	.30	.40	.62	.09
26	2.3	3.9	e.49	1.2	4.5	.63	.54	4.4	.26	.35	.40	.06
27	1.5	.85	e.89	.84	5.3	.60	.57	1.0	.25	.37	.16	.06
28	.76	.46	e.67	.61	3.1	.58	.48	.68	.33	.44	.10	.05
29	.44	.63	e.61	53	---	.61	.42	.63	.38	.30	.08	.04
30	.35	.61	e.51	20	---	.56	.43	5.2	.48	.25	.07	.04
31	.23	---	e.49	4.1	---	.63	---	85	---	.30	.06	---
MEAN	3.89	5.65	.93	4.84	10.7	4.19	4.45	9.21	5.41	4.37	.44	.94
MAX	56	61	3.5	53	172	73	40	118	57	77	3.4	13
MIN	.09	.16	.35	.32	.53	.56	.42	.35	.25	.23	.06	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	3.33	4.62	2.03	5.79	9.51	7.06	5.72	9.89	12.2	5.43	2.96	1.37
MAX	5.06	7.40	2.87	10.3	14.9	15.5	8.84	19.9	20.5	10.5	5.45	2.26
(WY)	1999	1999	1998	1999	1998	1998	1999	2000	2000	1998	1998	2000
MIN	2.14	.77	.93	.85	4.92	3.49	1.62	4.36	3.13	1.00	.44	.33
(WY)	1998	2000	2001	2000	2000	2000	2000	1998	1999	1997	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	5.88		4.54		5.87	
HIGHEST ANNUAL MEAN					8.03	1998
LOWEST ANNUAL MEAN					4.54	2001
HIGHEST DAILY MEAN	480	May 7	172	Feb 24	480	May 7 2000
LOWEST DAILY MEAN	.09	Oct 3	.04	Sep 5,29,30	.02	Sep 17,24 1999
ANNUAL SEVEN-DAY MINIMUM	.14	Sep 15	.05	Aug 30	.05	Aug 30 2001
MAXIMUM PEAK FLOW	---		899[a]	Feb 24	1890[a]	Jun 24 2000
MAXIMUM PEAK STAGE	---		12.53	Feb 24	15.88	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.03	Sep 5	.02	Sep 17,24 1999
10 PERCENT EXCEEDS	7.2		7.3		11	
50 PERCENT EXCEEDS	.86		.67		1.2	
90 PERCENT EXCEEDS	.31		.15		.25	

e Estimated
[a] From rating extended above 259 ft^3/s.

06935890 CREVE COEUR CREEK NEAR CREVE COEUR, MO

LOCATION.--Lat 38°40'55", long 90°29'18", St. Louis County, Hydrologic Unit 10300200, 200 ft downstream of Highway 340 bridge, 2.10 mi west of Interstate 270, 2.95 mi north U.S. Route 40, and 5.80 mi upstream of Missouri River.

DRAINAGE AREA.--22.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 449.43 ft above sea level.

REMARKS.--Water-discharge records fair except for discharges above 1,200 ft^3/s, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1974 reached a stage of 11.07 ft, former datum, discharge 1,330 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	4.4	5.0	4.5	7.9	6.8	4.2	6.6	16	29	1.2	.38
2	1.2	10	6.6	4.1	5.5	6.0	3.6	4.5	8.7	22	1.1	.38
3	1.1	8.3	8.8	4.2	5.4	5.3	109	4.0	22	4.5	3.1	.34
4	.94	5.0	6.3	4.4	5.1	5.0	22	3.5	41	13	1.3	.34
5	57	5.6	5.7	5.7	4.7	4.1	10	3.4	16	5.2	.90	.42
6	9.2	35	5.2	9.5	4.4	3.7	8.7	3.5	49	2.7	1.2	.35
7	4.7	14	5.3	14	4.1	3.6	7.8	3.7	14	2.2	.74	.38
8	4.4	6.2	5.7	9.3	4.1	3.6	6.9	3.5	7.8	1.8	.65	.79
9	3.6	104	5.3	9.0	70	3.4	13	3.2	6.1	1.6	2.2	47
10	3.5	22	5.4	6.8	14	3.4	72	3.2	5.4	1.5	7.6	6.1
11	3.7	8.9	15	5.6	6.5	3.3	25	3.0	4.8	1.7	2.1	1.2
12	3.5	8.1	14	6.0	5.4	3.4	22	3.0	4.6	10	1.2	.51
13	3.3	34	7.0	9.4	6.7	3.4	8.5	3.0	4.1	3.8	.86	.38
14	3.2	9.1	7.3	48	23	3.4	7.2	3.0	4.2	1.8	.62	.38
15	26	6.4	7.2	13	8.7	148	53	3.1	107	1.4	.48	.25
16	106	5.9	10	8.3	5.8	151	11	4.1	7.2	1.4	1.1	.33
17	56	5.5	10	6.5	4.6	16	7.4	3.1	4.7	1.3	1.0	.30
18	10	5.7	7.8	6.1	4.0	8.6	6.5	209	3.9	17	.66	47
19	6.8	5.7	6.8	5.3	4.0	7.1	6.1	200	4.1	8.2	.45	11
20	4.9	4.6	6.1	4.8	3.9	6.1	6.0	23	80	118	.38	1.8
21	5.0	4.9	6.1	4.4	3.5	5.1	6.0	68	26	8.7	.45	1.8
22	5.9	4.4	5.4	4.2	4.6	6.0	6.0	9.6	10	3.4	.50	1.3
23	7.7	4.6	5.2	4.5	4.6	6.1	6.7	6.3	5.2	2.3	.65	.58
24	5.6	4.9	5.3	4.5	493	5.3	7.4	6.6	3.9	11	12	.46
25	5.2	32	4.8	4.0	101	4.5	5.5	10	3.2	2.5	4.0	.39
26	6.0	15	5.2	4.7	15	3.6	5.4	18	3.0	2.7	2.6	.30
27	5.3	7.8	5.8	5.6	11	3.5	5.1	6.8	3.0	1.8	1.3	.30
28	5.0	6.0	5.5	4.1	9.9	3.4	4.8	5.5	2.8	1.8	.90	.31
29	4.9	5.3	5.4	66	---	3.5	4.3	4.7	2.8	1.7	.60	.45
30	4.7	4.9	5.1	34	---	3.4	4.3	7.2	2.8	1.4	.41	.29
31	4.2	---	4.7	13	---	3.5	---	336	---	1.3	.39	---
MEAN	11.9	13.3	6.74	10.8	30.0	14.3	15.5	31.4	15.8	9.25	1.70	4.19
MAX	106	104	15	66	493	151	109	336	107	118	12	47
MIN	.94	4.4	4.7	4.0	3.5	3.3	3.6	3.0	2.8	1.3	.38	.25
IN.	.63	.67	.35	.56	1.42	.75	.79	1.64	.80	.48	.09	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	9.33	13.1	7.05	27.4	57.5	40.1	24.7	46.1	64.0	14.6	12.4	6.26
MAX	11.9	21.8	8.75	75.4	95.9	110	48.2	91.4	115	22.0	28.6	10.6
(WY)	2001	1999	1998	1999	1999	1998	1998	2000	2000	1998	1998	1998
MIN	6.51	4.16	5.43	3.40	30.0	9.31	6.56	20.3	15.8	4.05	1.70	1.15
(WY)	1998	2000	1999	2000	2001	2000	2000	1998	2001	1997	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	28.8		13.6		26.8	
HIGHEST ANNUAL MEAN					37.0	1998
LOWEST ANNUAL MEAN					13.6	2001
HIGHEST DAILY MEAN	2520	Jun 24	493	Feb 24	2520	Jun 24 2000
LOWEST DAILY MEAN	.94	Oct 4	.25	Sep 15	.20	Sep 17 1999
ANNUAL SEVEN-DAY MINIMUM	1.5	Sep 28	.36	Sep 24	.30	Sep 15 1999
MAXIMUM PEAK FLOW	---		2360[a]	Feb 24	7330[a]	Jun 24 2000
MAXIMUM PEAK STAGE	---		10.65	Feb 24	16.43	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.20	Sep 15	.16	Sep 17 1999
ANNUAL RUNOFF (INCHES)	17.80		8.40		16.56	
10 PERCENT EXCEEDS	21		22		34	
50 PERCENT EXCEEDS	4.6		5.1		5.1	
90 PERCENT EXCEEDS	2.3		.88		1.7	

[a] From rating extended above 588 ft^3/s.

06935890 CREVE COEUR CREEK NEAR CREVE COEUR, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV												
06...	1153	ENVIRONMENTAL	86	5.0	46.7	7.5	755	12.1	264	76.0	18.0	207
DEC												
19...	0715	ENVIRONMENTAL	6.8	10.7	73.8	7.3	2710	.1	403	120	25.0	166
FEB												
28...	1055	ENVIRONMENTAL	9.8	12.9	98.3	7.3	1250	4.2	273	78.0	19.0	168
MAR												
15...	2027	ENVIRONMENTAL	63.3	8.8	79.4	7.8	841	10.0	181	51.0	13.0	114
AUG												
28...	1015	ENVIRONMENTAL	.92	4.3	52.1	7.4	744	23.8	242	69.0	17.0	167

DATE	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2) (00405)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)
NOV													
06...	207	253	0	--	270	1.1	.09	.1	<.01	.270	.650	11.5	--
DEC													
19...	165	202	0	1200	28	.79	.22	.6	.02	.060	.160	14.7	20
FEB													
28...	169	206	0	240	39	.84	.19	.9	.03	.090	.140	14.5	21
MAR													
15...	114	140	0	--	930	1.8	.25	.4	.02	.190	.810	3.8	100
AUG													
28...	168	205	0	--	39	.50	.11	.3	<.01	.080	.150	12.9	24

DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)
NOV													
06...	9400	9600	12000	66	4.5	<1.00	<1.00	<1.0	2.1	290	<1.00	670	<.10
DEC													
19...	120	310	300	24	1.1	<1.00	<1.00	3.0	1.7	110	<1.00	480	<.10
FEB													
28...	K140	410	470	69	<1.0	<1.00	<1.00	2.0	1.5	110	<1.00	300	<.10
MAR													
15...	K400	K2700	K3200	170	1.6	<1.00	<1.00	2.0	2.3	180	1.00	270	<.10
AUG													
28...	280	410	180	21	2.8	<1.00	<1.00	<1.0	1.2	20	<1.00	243	<.10

DATE	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	2,4,6-TRI-CHLORO-PHENOL TOTAL (µg/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (µg/L) (34601)	2,4,-DI-NITRO-PHENOL TOTAL (µg/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (µg/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (µg/L) (34626)
NOV													
06...	3.10	<1.0	<1.0	42	--	<1	<1	<1	<2	<2	<20	<1	<1
DEC													
19...	1.90	<1.0	<1.0	96	--	--	--	--	--	--	--	--	--
FEB													
28...	1.50	1.1	<1.0	4	--	--	--	--	--	--	--	--	--
MAR													
15...	1.60	<1.0	<1.0	21	1	M	<1	<1	<2	<2	<20	<1	<1
AUG													
28...	1.80	<1.0	<1.0	58	--	--	--	--	--	--	--	--	--

06935890 CREVE COEUR CREEK NEAR CREVE COEUR, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	2-CHLORONAPHTHALENE TOTAL (µg/L) (34581)	2-CHLOROPHENOL TOTAL (µg/L) (34586)	2-NITROPHENOL TOTAL (µg/L) (34591)	3,3'-DICHLOROBENZIDINE TOTAL (µg/L) (34631)	4,6-DINITRO-ORTHO-CRESOL TOTAL (µg/L) (34657)	4-BROMOPHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4-CHLOROPHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4-NITROPHENOL TOTAL (µg/L) (34646)	ACENAPHTHENE TOTAL (µg/L) (34205)	ACENAPHTHYLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRACENE TOTAL (µg/L) (34220)	BENZENE NITROWATER UNFLTRD RECOVER (µg/L) (34447)
NOV 06...	<1	<1	<1	<1	<2	<1	<1	<1	M	<1	<.013	M	<2
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	<1	<1	M	<1	M	<1	<1	E2	M	M	<.013	M	<2
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZIDINE TOTAL (µg/L) (39120)	BENZO-A-PYRENE TOTAL (µg/L) (34247)	BENZO B FLUORANTHENE TOTAL (µg/L) (34230)	BENZO K FLUORANTHENE TOTAL (µg/L) (34242)	BENZ(A)ANTHRACENE WATER UNFLTRD REC (µg/L) (34526)	BENZO-[GHI]-PERYLENE TOTAL (µg/L) (34521)	BIS(2-CHLOROETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2-CHLOROETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLOROISOPROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL) PHTHALATE TOTAL (µg/L) (39100)	CARBOPHENOTHION WATER UNFLTRD (µg/L) (39786)	CHLORDANE, TECHNICAL TOTAL (µg/L) (39350)	CHLORPYRIFOS TOTAL RECOVER (µg/L) (38932)
NOV 06...	<40	M	M	M	M	M	<1	<1	<1	<9	<.04	<.1	<.03
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	<40	M	E1	M	M	E1	<1	<1	<1	<9	<.02	<.1	.02
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CHRYSENE TOTAL (µg/L) (34320)	CYCLOPENTADIEN HEXACHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DIAZINON, TOTAL (µg/L) (39570)	DIELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHALATE TOTAL (µg/L) (34336)	DIMETHYL PHTHALATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHALATE TOTAL (µg/L) (39110)	DI-N-OCTYL PHTHALATE TOTAL (µg/L) (34596)	DISULFOTON UNFILT RECOVER (µg/L) (39011)	ENDOSULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
NOV 06...	M	<1	<.04	.04	<.006	<2	<2	<2	<1	<.07	<.015	<.014	<.03
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	E1	<1	<.02	.20	<.006	<2	M	M	M	<.13	<.015	<.014	<.01
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	FLUORANTHENE TOTAL (µg/L) (34376)	FLUORENE TOTAL (µg/L) (34381)	FONOFOS (DYFONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTACHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTACHLOR, TOTAL (µg/L) (39410)	HEXACHLOROBENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (µg/L) (34403)	ISOPHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALATHION, TOTAL (µg/L) (39530)	METHOXYCHLOR, TOTAL (µg/L) (39480)	METHYL PARATHION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
NOV 06...	M	M	<.01	<.009	<.014	<1	M	M	<.006	--	<.01	<.03	<.01
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	E2	M	<.01	<.009	<.014	<1	E2	M	<.006	<.03	<.01	<.01	<.01
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

06935890 CREVE COEUR CREEK NEAR CREVE COEUR, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	N-BUTYL BENZYL PHTHALATE TOTAL (µg/L) (34292)	N-NITROSODIMETHYLAMINE TOTAL (µg/L) (34438)	N-NITROSODI-N-PROPYLAMINE TOTAL (µg/L) (34428)	N-NITROSODIPHENYLAMINE TOTAL (µg/L) (34433)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARACHLOROMETA CRESOL TOTAL (µg/L) (34452)	PARATHION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTACHLOROPHENOL TOTAL (µg/L) (39032)	PHENANTHRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
NOV													
06...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.02	<.1	E2	M	<2
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	M	<2
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOXAPHENE, TOTAL (µg/L) (39400)	1,1,1-TRICHLOROETHANE TOTAL (µg/L) (34506)	1,1-DICHLOROETHANE TOTAL (µg/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (µg/L) (34501)	1,2-DICHLOROETHANE TOTAL (µg/L) (32103)	1,2-DICHLOROPROPANE TOTAL (µg/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (µg/L) (34546)	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (µg/L) (34536)
NOV													
06...	<.04	M	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.90	<1.00	<1.00
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.02	E2	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZENE TOTAL (µg/L) (34030)	BROMOFORM TOTAL (µg/L) (32104)	CARBON TETRACHLORIDE TOTAL (µg/L) (32102)	CHLOROBENZENE TOTAL (µg/L) (34301)	CHLORODIBROMOMETHANE TOTAL (µg/L) (32105)	CHLOROFORM TOTAL (µg/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (µg/L) (77093)	BROMODICHLOROMETHANE TOTAL (µg/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (µg/L) (34668)	DI-ISOPROPYLETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	ETHANE HEXACHLORO-WATER UNFLTRD RECOVER (µg/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (µg/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µg/L) (50004)
NOV													
06...	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

06935890 CREVE COEUR CREEK NEAR CREVE COEUR, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)
NOV													
06...	<.2	<.10	<.10	<1.3	<.2	<.2	<.20	E.7	<.10	<.10	<.1	<.10	<.10
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.2	<.10	<.10	<1.3	E.1	<.2	<.20	E.1	<.10	<.10	<.1	<.10	<.10
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
NOV		
06...	<.20	<.2
DEC		
19...	--	--
FEB		
28...	--	--
MAR		
15...	<.20	<.2
AUG		
28...	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

06935955 FEE FEE CREEK NEAR BRIDGETON, MO

LOCATION.--Lat 38°43'39", long 90°26'52", St. Louis County, Hydrologic Unit 10300200, on left abutment of old bridge at McKelvey Road, 0.17 mi west of Interstate 270, 0.92 mi north of Dorsett Road, and 0.65 mi upstream of Creve Coeur Creek.

DRAINAGE AREA.--11.7 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 451.99 ft above sea level.

REMARKS.--Water-discharge records poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 18, 1973 reached a stage of 15.42 ft, former datum, discharge 1,650 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.5	2.1	e1.5	3.1	3.8	2.8	5.8	4.5	3.6	.74	.61
2	1.4	10	6.7	e2.2	2.2	3.4	4.1	2.1	4.3	2.4	7.6	.50
3	1.7	1.8	3.2	e1.6	1.8	2.9	80	1.8	27	2.1	15	.46
4	2.4	1.1	3.7	e1.4	1.9	2.6	6.9	3.2	36	18	.79	.47
5	64	1.1	2.4	e6.2	1.9	2.7	3.8	1.2	4.8	2.8	.74	.67
6	2.9	54	1.7	e10	1.9	2.4	3.5	1.3	47	.83	.52	2.2
7	1.4	6.3	1.7	e5.6	2.4	1.4	3.2	1.4	4.3	.70	.63	.94
8	1.2	1.8	2.1	e2.8	1.8	1.4	3.3	1.1	2.5	.76	.80	13
9	1.3	55	2.5	e1.8	87	1.3	57	.97	2.1	1.5	1.1	e104
10	1.6	5.5	1.9	e1.6	5.0	1.3	55	.94	1.8	1.0	5.2	e3.4
11	1.7	1.9	21	e1.8	2.6	1.3	29	.97	1.5	1.1	.64	e1.2
12	1.5	15	3.0	e3.9	2.3	1.5	8.2	.92	1.2	11	.47	e.87
13	1.6	16	e1.9	12	6.8	1.7	4.2	.79	.94	1.6	.77	e.51
14	2.4	2.1	e2.7	24	23	3.4	3.5	.86	8.2	.69	.37	e.62
15	45	1.5	e6.2	5.7	3.7	94	35	1.2	26	.70	.39	e1.3
16	71	1.7	e14	4.5	2.4	44	4.1	.99	1.5	.77	3.3	e.39
17	14	1.9	e5.7	8.6	1.8	6.2	3.1	22	.87	.88	.54	e.60
18	2.9	e1.7	e2.4	2.8	e1.4	3.9	3.2	77	.79	14	.56	100
19	2.3	e1.6	e3.2	2.7	2.0	3.5	3.2	15	2.1	7.9	.34	6.1
20	2.4	e2.5	e2.9	2.6	2.1	3.2	3.9	8.0	15	33	.32	1.5
21	2.5	e1.5	e2.3	2.2	1.8	2.8	4.0	43	33	5.5	.35	5.5
22	7.0	1.4	e1.3	1.7	4.7	6.0	3.9	2.3	3.1	1.2	.61	.70
23	2.7	1.4	e1.2	1.6	4.3	4.3	5.9	2.2	1.3	8.2	7.2	.37
24	1.9	1.4	e1.5	1.6	298	4.0	3.2	2.9	.89	18	22	.30
25	2.0	38	e1.0	1.6	54	2.7	2.5	13	.83	1.3	4.0	.29
26	1.9	5.2	e2.6	4.2	9.7	2.5	2.6	5.7	2.7	.74	1.1	.38
27	1.7	1.9	e3.7	2.2	7.5	2.7	2.5	1.7	22	.76	.40	.41
28	1.5	1.5	e1.8	2.0	5.4	2.7	2.8	1.3	4.9	.83	.40	.52
29	1.3	1.2	e2.0	63	---	2.8	2.1	1.6	2.6	.77	.38	.56
30	1.2	1.4	e1.7	15	---	3.5	9.9	30	16	.68	.62	.48
31	1.2	---	e1.6	4.9	---	2.7	---	112	---	.96	.45	---
MEAN	8.03	8.00	3.60	6.56	19.4	7.18	11.9	11.7	9.32	4.65	2.53	8.30
MAX	71	55	21	63	298	94	80	112	47	33	22	104
MIN	1.2	1.1	1.0	1.4	1.4	1.3	2.1	.79	.79	.68	.32	.29
IN.	.79	.76	.36	.65	1.72	.71	1.13	1.15	.89	.46	.25	.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	8.01	16.9	5.28	15.1	25.5	16.6	14.4	15.0	20.7	9.86	8.94	7.45
MAX	11.1	49.1	7.93	25.7	39.6	34.2	26.6	18.7	42.0	20.3	15.7	15.2
(WY)	1997	1997	1998	1999	1997	1998	1998	2000	1998	1998	1997	1996
MIN	1.86	1.47	3.09	2.99	14.7	6.58	5.30	9.41	9.32	2.83	2.53	1.53
(WY)	2000	2000	1999	2000	2000	2000	2000	1999	2001	2000	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL MEAN	9.25		8.33		13.3	
HIGHEST ANNUAL MEAN					18.7	1998
LOWEST ANNUAL MEAN					8.31	2000
HIGHEST DAILY MEAN	550	Jun 24	298	Feb 24	665	Feb 7 1999
LOWEST DAILY MEAN	.48	Jun 19	.29	Sep 25	.28	Sep 22 1999
ANNUAL SEVEN-DAY MINIMUM	.71	Jan 24	.40	Sep 23	.30	Sep 21 1999
MAXIMUM PEAK FLOW	---		1470[a]	Feb 24	2590[a]	Jun 24 2000
MAXIMUM PEAK STAGE	---		11.28	Feb 24	17.45	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.28	Sep 24,25	.28	Sep 15 1999, Sep 24,25,2001
ANNUAL RUNOFF (INCHES)	10.76		9.67		15.49	
10 PERCENT EXCEEDS	15		18		26	
50 PERCENT EXCEEDS	1.8		2.3		2.4	
90 PERCENT EXCEEDS	.93		.70		.82	

e Estimated
[a] From rating extended above 1,130 ft^3/s.

06935955 FEE FEE CREEK NEAR BRIDGETON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1996 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
DEC												
18...	1515	ENVIRONMENTAL	e2.4	12.6	88	7.5	6060	.1	540	160	35.0	199
JAN												
13...	2242	ENVIRONMENTAL	97	12.6	87	7.5	1430	.1	170	49.0	12.0	119
FEB												
28...	0800	ENVIRONMENTAL	6.0	11.8	88	7.4	2480	3.4	360	100	27.0	186
MAR												
15...	2052	ENVIRONMENTAL	413	11.3	102	7.5	550	10.3	87	25.0	6.00	55
MAY												
30...	0955	ENVIRONMENTAL	1.9	5.2	57	7.6	1090	19.0	280	76.0	21.0	156
30...	0956	REPLICATE	--	--	--	--	--	--	280	76.0	21.0	--
AUG												
28...	0900	ENVIRONMENTAL	.40	3.9	47	7.5	705	23.2	190	53.0	13.0	114

DATE	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2) (00405)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)
DEC													
18...	199	243	0	2900	16	1.1	.44	.9	.06	.050	.140	12	94
JAN													
13...	122	149	0	--	440	2.7	.34	1.5	.03	.450	1.20	6.9	30
FEB													
28...	190	232	0	540	11	1.3	.32	1.5	.04	.080	.130	16	32
MAR													
15...	55	67	0	--	1700	3.6	.33	.5	.02	.090	1.50	3.8	150
MAY													
30...	156	190	0	--	15	.94	.20	.7	.05	.090	.130	7.9	60
30...	--	--	--	--	14	.88	.18	.7	.05	.090	.140	--	22
AUG													
28...	113	138	0	--	46	.80	.15	.5	.01	.120	.230	7.8	26

DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)
DEC													
18...	46	380	160	25	1.1	<1.00	<1.00	2.0	2.1	100	<1.00	1400	<.10
JAN													
13...	K1500	K5000	7600	250	2.6	<1.00	<1.00	3.0	5.9	340	3.00	400	<.10
FEB													
28...	1100	2000	540	21	1.2	<1.00	<1.00	3.0	1.9	50	<1.00	610	<.10
MAR													
15...	K200	K1000	K5000	170	1.4	<1.00	<1.00	1.0	2.2	160	<1.00	110	<.10
MAY													
30...	1400	4000	6800	21	3.6	<1.00	<1.00	<1.0	2.0	40	<1.00	330	<.10
30...	--	--	--	21	3.5	<1.00	<1.00	<1.0	1.8	40	<1.00	340	<.10
AUG													
28...	330	K840	480	25	4.9	<1.00	<1.00	<1.0	1.6	40	<1.00	299	<.10

06935955 FEE FEE CREEK NEAR BRIDGETON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	2,4,6-TRI-CHLORO-PHENOL TOTAL (µg/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (µg/L) (34601)	2,4,-DI-NITRO-PHENOL TOTAL (µg/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (µg/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (µg/L) (34626)
DEC													
18...	2.60	<1.0	<1.0	100	--	--	--	--	--	--	--	--	--
JAN													
13...	3.10	<1.0	<1.0	230	6	5	<1	M	M	<2	<20	<1	<1
FEB													
28...	2.80	2.6	<1.0	6	--	--	--	--	--	--	--	--	--
MAR													
15...	1.30	<1.0	<1.0	11	2	E3	<1	<1	<2	<2	<20	<1	<1
MAY													
30...	4.90	1.3	<1.0	160	--	--	--	--	--	--	--	--	--
30...	4.70	1.2	<1.0	140	--	--	--	--	--	--	--	--	--
AUG													
28...	2.10	<1.0	<1.0	77	--	--	--	--	--	--	--	--	--

DATE	2-CHLORO-NAPH-THALENE TOTAL (µg/L) (34581)	2-CHLORO-PHENOL TOTAL (µg/L) (34586)	2-NITRO-PHENOL TOTAL (µg/L) (34591)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (µg/L) (34631)	4,6-DINITRO -ORTHO-CRESOL TOTAL (µg/L) (34657)	4-BROMO-PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4-NITRO-PHENOL TOTAL (µg/L) (34646)	ACE-NAPHTH-ENE TOTAL (µg/L) (34205)	ACE-NAPHTH-YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA-CENE TOTAL (µg/L) (34220)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
13...	<1	<1	<1	<1	<2	<1	<1	<1	3	M	<.013	3	<2
FEB													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<1	<1	M	<1	<2	<1	<1	3	M	M	<.013	M	<2
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZI-DINE TOTAL (µg/L) (39120)	BENZO-A-PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR-AN-THENE TOTAL (µg/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA-CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO-[GHI]-PERY-LENE TOTAL (µg/L) (34521)	BIS(2-CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2-CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (µg/L) (39100)	CARBO-PHENO-THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
13...	<40	15	29	9	10	21	<1	<1	<1	M	<.02	<.1	.03
FEB													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<40	6	8	E3	4	5	<1	<1	<1	M	<.02	.1	E.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

06935955 FEE FEE CREEK NEAR BRIDGETON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CHRY-SENE TOTAL (µg/L) (34320)	CYCLOPENTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)	DI-N-OCTYL PHTHAL-ATE TOTAL (µg/L) (34596)	DISUL-FOTON UNFILT RECOVER (µg/L) (39011)	ENDO-SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
13...	28	<1	<.02	<.02	.015	<2	<2	<2	<1	<.03	<.015	<.014	<.01
FEB													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	7	<1	<.02	.06	.023	M	M	M	M	<.13	<.015	<.014	<.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	FLUOR-ANTHENE TOTAL (µg/L) (34376)	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (µg/L) (34403)	ISO-PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA-THION, TOTAL (µg/L) (39530)	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
13...	73	3	<.01	<.009	<.014	<1	23	M	.009	<.03	<.01	<.01	<.01
FEB													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	13	M	<.01	<.009	<.014	<1	7	M	<.006	<.03	<.01	<.01	<.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	N-BUTYL BENZYL PHTHAL-ATE TOTAL (µg/L) (34292)	N-NITRO-SODI-METHYL-AMINE TOTAL (µg/L) (34438)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (µg/L) (34428)	N-NITRO-SODI-PHENYL-AMINE TOTAL (µg/L) (34433)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARA-CHLORO-META CRESOL TOTAL (µg/L) (34452)	PARA-THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PHENAN-THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
13...	<2	<2	<.9	<1	.033	.008	.050	<2	<.01	<.1	E3	35	<2
FEB													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<2	<2	<.9	<1	.063	E.005	.027	<2	<.01	<.1	E1	7	M
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

06935955 FEE FEE CREEK NEAR BRIDGETON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX-APHENE, TOTAL (µg/L) (39400)	1,1,1-TRI-CHLORO-ETHANE TOTAL (µg/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (µg/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (µg/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
13...	<.02	60	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
FEB													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.02	10	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZENE TOTAL (µg/L) (34030)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (µg/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (µg/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µg/L) (50004)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
13...	<.10	<.20	<.20	<.10	E.1	<.10	.42	<.10	<.2	<.2	<1.0	<.2	<.10
FEB													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.10	<.20	<.20	<.10	<.2	.32	.12	<.10	<.2	<.2	<1.0	<.2	<.10
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

06935955 FEE FEE CREEK NEAR BRIDGETON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
13...	<.2	<.10	<.10	<1.3	<.2	<.2	<.20	E1.6	<.10	<.10	<.1	<.10	1.41
FEB													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.2	<.10	<.10	<1.3	E.1	<.2	<.20	E.2	<.10	<.10	<.1	<.10	.51
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC		
18...	--	--
JAN		
13...	<.20	<.2
FEB		
28...	--	--
MAR		
15...	<.20	<.2
MAY		
30...	--	--
30...	--	--
AUG		
28...	--	--

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

06935965 MISSOURI RIVER AT ST. CHARLES, MO

LOCATION.--Lat 38°47'08", long 90°28'19", SE $^1/_4$ sec. 29, R.47 N., R.5 E., St. Louis County, Hydrologic Unit 10300200, on right bank approximately $^1/_4$ mi downstream from Highway 115 bridge, on the St. Charles Sand Company property.

DRAINAGE AREA.--530,300 mi^2.

PERIOD OF RECORD.--April 1, 2000 to current year. April 15, 1932 to October 1944 recording gage at location Feb. 16, 1984 to Sept. 30, 1997 stage only operated by U.S.G.S., Oct. 1, 1997 to April 1, 2000, stage only operated by U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage 413.472 ft above sea level. Prior to

REMARKS.--Records good. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 2-3, 1993 reached a stage of 40.04 ft. by levels of good highwater mark.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50300	47400	45200	25100	86800	209000	93300	95900	100000	141000	104000	73300
2	48700	47000	43900	25700	83400	180000	88100	98100	123000	135000	116000	64600
3	46500	46700	42000	26000	71400	153000	84700	98500	156000	130000	102000	58700
4	45000	47000	40700	26200	59200	133000	96700	96900	176000	128000	91600	57000
5	44700	47500	39800	26500	49400	116000	134000	95600	225000	131000	83600	54000
6	45000	49600	38700	26700	42400	108000	145000	101000	248000	138000	80100	52900
7	46700	53000	36800	26700	38000	104000	141000	114000	276000	141000	76900	52700
8	46100	54500	35100	26700	35800	98900	128000	127000	297000	129000	74700	53100
9	46400	53700	34000	26700	35300	95200	122000	155000	303000	117000	77300	52200
10	47800	55900	33200	26600	41700	89400	109000	157000	301000	108000	73700	51500
11	47200	64300	32300	26900	112000	85400	113000	139000	282000	98600	66400	49600
12	46600	67300	31200	27300	132000	78100	142000	127000	242000	93600	58600	48300
13	46500	63000	30300	27500	110000	67700	153000	132000	209000	91000	54100	48100
14	46200	57700	29800	27700	93900	67000	145000	145000	178000	96100	51800	49300
15	46000	54100	29600	28900	84000	71700	143000	141000	162000	110000	50400	51000
16	48000	51500	29400	30800	73500	103000	150000	132000	154000	109000	49500	50100
17	53600	49400	29100	31500	66900	161000	146000	130000	167000	97600	49000	48100
18	54100	48000	28700	33100	68600	204000	143000	132000	194000	89000	48800	47900
19	55600	47100	28100	37100	62500	201000	135000	137000	197000	88400	48500	49100
20	52600	46500	26600	40000	54000	183000	127000	145000	179000	86000	48400	59100
21	48700	45900	26000	38700	51200	167000	125000	147000	164000	88600	47900	102000
22	47200	45200	27600	36600	53100	153000	123000	132000	181000	84200	48300	106000
23	46700	44900	28500	34500	56000	143000	117000	133000	225000	84600	49100	91200
24	46600	45200	28500	33000	61800	139000	122000	126000	232000	96200	50900	79200
25	46800	45600	26100	32000	136000	139000	120000	124000	223000	84100	52700	71700
26	48000	45700	25000	31300	176000	143000	112000	117000	209000	78400	51800	67100
27	49600	45900	26500	30500	215000	140000	101000	107000	193000	83300	53100	68600
28	50600	45600	29000	29400	225000	134000	92900	96400	168000	101000	57600	73800
29	49000	45700	27500	28900	---	122000	89700	89600	153000	109000	67500	68800
30	47500	45900	25300	41500	---	109000	92500	86400	146000	90400	73300	62700
31	47400	---	24700	81800	---	101000	---	91200	---	86100	74500	---
MEAN	48120	50230	31590	32000	84820	129000	121100	120900	202100	104600	65550	62060
MAX	55600	67300	45200	81800	225000	209000	153000	157000	303000	141000	116000	106000
MIN	44700	44900	24700	25100	35300	67000	84700	86400	100000	78400	47900	47900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	48120	50230	31590	32000	84820	129000	87500	90180	139400	89750	62020	53890
MAX	48120	50230	31590	32000	84820	129000	121100	120900	202100	104600	65550	62060
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	48120	50230	31590	32000	84820	129000	53880	59440	76770	74880	58490	45720
(WY)	2001	2001	2001	2001	2001	2001	2000	2000	2000	2000	2000	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL MEAN			87470		87470	
HIGHEST ANNUAL MEAN					87470	2001
LOWEST ANNUAL MEAN					87470	2001
HIGHEST DAILY MEAN	140000	Jun 28	303000	Jun 9	303000	Jun 9 2001
LOWEST DAILY MEAN	24700	Dec 31	24700	Dec 31	24700	Dec 31 2000
ANNUAL SEVEN-DAY MINIMUM	26300	Dec 25	25600	Dec 30	25600	Dec 30 2000
MAXIMUM PEAK FLOW	---		305000	Jun 10	305000	Jun 10 2001
MAXIMUM PEAK STAGE	---		30.50	Jun 10	30.50	Jun 10 2001
INSTANTANEOUS LOW FLOW	---		24600	Dec 26,31	24600	Dec 26,31 2000
10 PERCENT EXCEEDS	79700		155000		142000	
50 PERCENT EXCEEDS	51300		71700		56800	
90 PERCENT EXCEEDS	40300		30400		37900	

06935980 COWMIRE CREEK AT BRIDGETON, MO

LOCATION.--Lat 38°45'50", long 90°25'59", St. Louis County, Hydrologic Unit 10300200, on left bank of bridge at Kirchner Brick Co., 1.11 mi west of Interstate 70 and 270 interchange, 1.7 mi south of State Highway 370, 0.16 mi north of County Highway A (St Charles Rock Road), and 6.29 mi upstream of the Missouri River.

DRAINAGE AREA.--3.74 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 464.46 ft above sea level.

REMARKS.--Water-discharge records fair except estimated daily discharges, those below 0.5 ft^3/s and above 200 ft^3/s, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 30, 1974 reached a stage of 11.42 ft, former datum, discharge, 1,060 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.40	.37	e.62	.74	.80	.44	.83	.55	.31	.08	.17
2	.10	2.1	1.7	e.76	.69	.75	1.4	.52	.49	.78	7.1	.07
3	.28	.24	.59	e.58	.61	.58	13	.54	8.8	.19	3.3	.05
4	3.8	.15	.54	e.58	.50	.49	.92	.53	16	9.2	.10	.17
5	31	.14	.54	e1.3	.48	.48	.55	.48	.89	1.2	.08	.06
6	.57	14	.54	e1.8	.48	.44	.48	.48	10	.29	.07	.17
7	.25	.91	.48	e.98	.46	.49	.48	.48	.81	.18	.06	.05
8	.15	.33	.46	e.71	.49	.48	.48	.39	.57	.17	.06	5.4
9	.13	13	.46	.62	17	.42	16	.35	.43	.17	3.8	9.1
10	.13	.98	.42	.60	.91	.41	46	.30	.41	.26	1.3	.26
11	.19	.45	7.0	.67	.64	.41	14	.44	.41	.16	.09	.11
12	.16	4.3	.54	.97	.49	.41	2.2	.29	.70	2.9	.08	.09
13	.13	2.8	.41	5.5	1.5	.44	1.4	.24	.26	.22	.08	.08
14	1.6	.67	.41	3.9	1.6	.39	1.2	.27	14	.14	.07	.08
15	8.9	.77	.54	1.2	.60	29	7.9	.24	4.6	.09	.06	.08
16	14	.62	1.6	.78	.48	4.5	.99	.45	.31	.12	.94	.08
17	1.6	.53	e1.2	.64	.46	.89	.82	5.4	.23	.09	.08	.08
18	.33	.48	e.82	.54	.41	.63	.67	11	.20	23	.08	29
19	.30	.42	e1.1	.50	.41	.57	.64	1.5	.21	19	.05	.94
20	.25	.36	e1.1	.48	.41	.49	.67	5.0	4.8	5.7	.05	1.3
21	.25	.35	e.88	.45	.39	.43	.67	8.0	6.3	.35	.05	2.5
22	.79	.35	e.65	.41	1.0	.94	.61	.69	.60	.17	.06	.25
23	1.0	.31	e.44	.41	1.5	.46	2.6	.50	.33	7.2	17	.20
24	5.7	.48	e.71	.36	89	1.0	.58	.35	.19	5.1	11	.21
25	.28	11	e.53	.30	4.1	.28	.54	.49	.16	.17	3.1	.20
26	.22	1.2	e.93	1.2	1.4	.27	.53	.43	.46	.12	.32	.19
27	.49	.70	e1.2	.49	1.6	.26	.48	.29	120	.11	.10	.22
28	.18	.44	e.92	.75	1.1	.53	.45	.24	2.5	.34	.09	.31
29	.15	.42	e.88	18	---	.41	.38	2.1	.53	.18	.11	.15
30	.15	.41	e.65	3.1	---	.47	2.1	11	.36	.08	.39	.13
31	.22	---	e.67	.99	---	.59	---	22	---	.11	.08	---
MEAN	2.37	1.98	.94	1.62	4.62	1.57	3.97	2.45	6.54	2.52	1.61	1.72
MAX	31	14	7.0	18	89	29	46	22	120	23	17	29
MIN	.10	.14	.37	.30	.39	.26	.38	.24	.16	.08	.05	.05
IN.	.74	.60	.29	.50	1.30	.49	1.20	.76	1.97	.79	.50	.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	1.93	2.14	1.36	3.95	6.74	4.23	5.82	5.32	7.27	4.92	2.17	1.68
MAX	2.37	3.63	1.96	8.86	11.3	9.35	12.9	8.03	11.8	10.4	3.27	2.20
(WY)	2001	1999	1998	1999	1999	1998	1998	2000	2000	1998	1997	2000
MIN	1.44	.84	.75	.84	4.08	1.57	1.66	2.45	3.48	1.02	1.14	.57
(WY)	1998	2000	1999	2000	1998	2001	2000	2001	1997	1997	1999	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	3.55		2.63		4.06	
HIGHEST ANNUAL MEAN					5.60	1998
LOWEST ANNUAL MEAN					2.63	2001
HIGHEST DAILY MEAN	182	Jun 24	120	Jun 27	240	Feb 7 1999
LOWEST DAILY MEAN	.08	Sep 19	.05	Aug 19-21,Sep 3,7	.05	Aug 19-21,Sep 3,7 2001
ANNUAL SEVEN-DAY MINIMUM	.16	Oct 7	.09	Sep 11	.07	Oct 27 1999
MAXIMUM PEAK FLOW	---		2090[a]	Jun 27	2460[a]	Jul 30 1998
MAXIMUM PEAK STAGE	---		13.02	Jun 27	13.90	Jul 30 1998
INSTANTANEOUS LOW FLOW	---		.04	Sep 6-8	.04	Sep 6-8 2001
ANNUAL RUNOFF (INCHES)	13.07		9.66		14.93	
10 PERCENT EXCEEDS	6.2		5.7		7.0	
50 PERCENT EXCEEDS	.50		.49		.60	
90 PERCENT EXCEEDS	.18		.11		.13	

e Estimated
[a] From rating extended above 100 ft^3/s.

06935980 COWMIRE CREEK AT BRIDGETON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
DEC												
18...	1410	ENVIRONMENTAL	.82	11.2	77.9	7.6	4340	.2	552	150	43.0	224
JAN												
29...	1152	ENVIRONMENTAL	20	10.7	83.3	7.8	4010	4.2	202	56.0	15.0	143
FEB												
28...	0935	ENVIRONMENTAL	1.0	11.2	83.1	7.4	2680	3.0	351	91.0	30.0	206
APR												
03...	0115	ENVIRONMENTAL	45	9.1	83.1	7.3	412	11.3	160	41.0	15.0	94
MAY												
30...	0855	ENVIRONMENTAL	.48	3.3	36.4	7.3	640	19.0	199	50.0	18.0	121
AUG												
28...	0730	ENVIRONMENTAL	.08	2.0	24.3	7.3	667	23.0	225	57.0	20.0	148

DATE	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2) (00405)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)
DEC													
18...	225	275	0	3400	12	1.8	.82	.7	.05	.080	.170	10.9	160
JAN													
29...	144	176	0	--	230	2.3	.37	.9	.01	.090	.440	4.4	38
FEB													
28...	208	256	0	650	28	1.2	.19	1.2	.04	.050	.120	15.2	24
APR													
03...	96	118	0	--	121	1.5	.10	.7	.05	.050	.280	8.7	53
MAY													
30...	122	149	0	--	8	1.5	.49	1.0	.13	.100	.170	12.6	45
AUG													
28...	148	183	0	--	24	.70	.17	.1	.01	.130	.240	14.7	23

DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)
DEC													
18...	K200	1600	960	11	1.2	<1.00	<1.00	3.0	2.1	200	<1.00	1600	<.10
JAN													
29...	4000	13000	77000	250	1.3	<1.00	<1.00	6.0	9.9	230	2.00	350	<.10
FEB													
28...	K4300	K21000	9200	23	<1.0	<1.00	<1.00	2.0	2.1	30	<1.00	560	<.10
APR													
03...	14000	22000	46000	108	1.2	<1.00	<1.00	3.3	4.2	150	<1.00	261	<.10
MAY													
30...	5400	6400	8000	47	2.4	<1.00	<1.00	<1.0	2.8	140	<1.00	390	<.10
AUG													
28...	790	2200	1200	28	3.1	<1.00	<1.00	<1.0	1.0	70	<1.00	452	<.10

06935980 COWMIRE CREEK AT BRIDGETON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	2,4,6-TRI-CHLORO-PHENOL TOTAL (µg/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (µg/L) (34601)	2,4,-DI-NITRO-PHENOL TOTAL (µg/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (µg/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (µg/L) (34626)
DEC													
18...	2.10	<1.0	<1.0	30	--	--	--	--	--	--	--	--	--
JAN													
29...	2.10	<1.0	<1.0	110	8	E1	<1	<1	M	<2	<20	<1	<1
FEB													
28...	2.10	1.4	<1.0	36	--	--	--	--	--	--	--	--	--
APR													
03...	2.40	<1.0	<1.0	159	2	M	<1	M	<2	M	<20	<1	<1
MAY													
30...	3.70	<1.0	<1.0	140	--	--	--	--	--	--	--	--	--
AUG													
28...	1.90	<1.0	<1.0	65	--	--	--	--	--	--	--	--	--

DATE	2-CHLORO-NAPH-THALENE TOTAL (µg/L) (34581)	2-CHLORO-PHENOL TOTAL (µg/L) (34586)	2-NITRO-PHENOL TOTAL (µg/L) (34591)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (µg/L) (34631)	4,6-DINITRO -ORTHO-CRESOL TOTAL (µg/L) (34657)	4-BROMO-PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4-NITRO-PHENOL TOTAL (µg/L) (34646)	ACE-NAPHTH-ENE TOTAL (µg/L) (34205)	ACE-NAPHTH-YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA-CENE TOTAL (µg/L) (34220)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
29...	<1	<1	M	<1	E1	<1	<1	E2	M	M	<.013	M	<2
FEB													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<1	<1	M	<1	E1	<1	<1	3	M	M	<.013	M	<2
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZI-DINE TOTAL (µg/L) (39120)	BENZO-A-PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR-AN-THENE TOTAL (µg/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA-CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO-[GHI]-PERY-LENE TOTAL (µg/L) (34521)	BIS(2-CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2-CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (µg/L) (39100)	CARBO-PHENO-THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
29...	<40	4	9	3	3	4	<1	<1	<1	M	<.02	<.1	E.01
FEB													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<40	M	E2	M	M	E1	<1	<1	<1	M	--	--	--
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CHRY-SENE TOTAL (µg/L) (34320)	CYCLOPE NTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)	DI-N-OCTYL PHTHAL-ATE TOTAL (µg/L) (34596)	DISUL-FOTON UNFILT RECOVER (µg/L) (39011)	ENDO-SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
29...	8	<1	<.02	E.02	<.006	<2	<2	<2	E2	<.07	<.015	<.014	<.01
FEB													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	E1	<1	<.04	E.14	<.006	M	M	M	E1	<.07	<.015	<.014	<.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

06935980 COWMIRE CREEK AT BRIDGETON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	FLUORANTHENE TOTAL (µg/L) (34376)	FLUORENE TOTAL (µg/L) (34381)	FONOFOS (DYFONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTACHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTACHLOR, TOTAL (µg/L) (39410)	HEXACHLOROBENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (µg/L) (34403)	ISOPHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALATHION, TOTAL (µg/L) (39530)	METHOXYCHLOR, TOTAL (µg/L) (39480)	METHYL PARATHION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
DEC 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 29...	15	M	<.01	<.009	<.014	<1	5	M	<.006	<.03	<.01	<.01	<.01
FEB 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 03...	3	M	<.01	<.009	<.014	<1	E1	M	<.006	E.24	<.01	<.01	<.01
MAY 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	N-BUTYL BENZYL PHTHALATE TOTAL (µg/L) (34292)	N-NITROSODIMETHYLAMINE TOTAL (µg/L) (34438)	N-NITROSODI-N-PROPYLAMINE TOTAL (µg/L) (34428)	N-NITROSODIPHENYLAMINE TOTAL (µg/L) (34433)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARACHLOROMETA CRESOL TOTAL (µg/L) (34452)	PARATHION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTACHLOROPHENOL TOTAL (µg/L) (39032)	PHENANTHRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
DEC 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 29...	5	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	8	<2
FEB 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 03...	E1	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	M	M
MAY 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOXAPHENE, TOTAL (µg/L) (39400)	1,1,1-TRICHLOROETHANE TOTAL (µg/L) (34506)	1,1-DICHLOROETHANE TOTAL (µg/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (µg/L) (34501)	1,2-DICHLOROETHANE TOTAL (µg/L) (32103)	1,2-DICHLOROPROPANE TOTAL (µg/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (µg/L) (34546)	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (µg/L) (34536)
DEC 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 29...	<.02	11	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
FEB 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 03...	<.04	E2	<1	<.10	<.10	<.10	<.2	<.10	<.10	M	<.10	<.10	<.10
MAY 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZENE TOTAL (µg/L) (34030)	BROMOFORM TOTAL (µg/L) (32104)	CARBON TETRACHLORIDE TOTAL (µg/L) (32102)	CHLOROBENZENE TOTAL (µg/L) (34301)	CHLORODIBROMOMETHANE TOTAL (µg/L) (32105)	CHLOROFORM TOTAL (µg/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (µg/L) (77093)	BROMODICHLOROMETHANE TOTAL (µg/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (µg/L) (34668)	DI-ISOPROPYLETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	ETHANE HEXACHLORO-WATER UNFLTRD RECOVER (µg/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (µg/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µg/L) (50004)
DEC 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 29...	<.10	<.20	<.20	<.10	<.2	.42	<.10	<.10	<.2	<.2	<1.0	<.2	<.10
FEB 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 03...	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10
MAY 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

06935980 COWMIRE CREEK AT BRIDGETON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)
DEC 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 29...	<.2	.21	<.10	<1.3	.3	<.2	.79	E.5	.29	<.10	<.1	.17	<.10
FEB 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 03...	<.2	<.10	<.10	<1.3	.3	<.2	<.20	E.1	<.10	<.10	<.1	<.10	<.10
MAY 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC 18...	--	--
JAN 29...	<.20	<.2
FEB 28...	--	--
APR 03...	<.20	<.2
MAY 30...	--	--
AUG 28...	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

06935997 MILL CREEK NEAR FLORISSANT, MO

LOCATION.--Lat 38°50'54", long 90°17'10", St. Louis County, Hydrologic Unit 10300200, on right downstream wingwall of Old Jamestown Road bridge, 2.50 mi west of U.S. 367 and 67 (Lewis and Clark Blvd.), 2.08 mi north of U.S. Route 67 (Lindbergh Blvd.), and 1.70 mi upstream of the Missouri River.

DRAINAGE AREA.--2.12 mi^2.

PERIOD OF RECORD.--May 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 432.34 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges and those below 8 ft^3/s, which are poor.

EXTREMES FOR 1999 WATER YEAR.--Maximum discharge, 2,780 ft^3/s, June 11, gage height, 10.53 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	.50	.29	e.41	.57	.70	.75	.45	.26	.78	.03	.06
2	.25	1.1	.38	e.25	.36	.66	.79	.31	.25	.38	2.2	.06
3	.24	.52	.31	e.18	.44	.61	3.1	.20	2.1	.09	1.8	.04
4	28	.44	.31	e.20	.51	.55	1.3	.14	10	7.6	.08	.04
5	51	.42	.29	.36	.47	.51	.98	.40	1.1	.46	.06	.04
6	1.3	4.2	.28	.58	.45	.58	.85	.43	1.2	.22	.03	.05
7	.52	1.0	.34	.69	.43	.70	.98	.26	.62	.17	.03	.04
8	.35	.44	.27	.40	.52	.56	1.5	.18	.43	.13	.03	2.0
9	.34	5.3	.26	.27	4.6	.50	2.2	.16	.37	.11	.30	4.6
10	.29	1.0	.27	.28	.98	.51	55	.14	.31	.09	.92	.19
11	.29	.53	1.9	.26	.62	.48	13	.09	.23	.08	.05	.07
12	.28	.97	e.49	.41	.61	.60	2.7	.08	.19	.39	.04	.06
13	.30	1.7	e.39	1.4	.65	.56	2.8	.07	.18	.12	.04	.04
14	.54	.47	e.42	3.6	.70	.82	1.6	.08	.46	.09	.05	.04
15	1.4	.39	e.51	1.0	.51	4.5	2.4	.08	1.3	.07	.06	.04
16	2.0	.35	.82	.66	.44	3.8	1.0	.08	.20	.08	.17	.04
17	1.0	.29	e.56	1.1	.37	1.5	1.0	.70	.17	.18	.09	.05
18	.46	.28	e.42	1.3	.39	.94	.86	2.0	.13	.94	.59	6.9
19	.41	.28	e.40	.47	.48	.86	.86	.60	.11	4.2	.06	.74
20	.39	.25	e.34	.37	.42	.69	1.0	.28	.27	.23	.07	.16
21	.39	.22	e.25	.34	.35	.65	1.1	1.8	.53	.11	.08	.34
22	.50	.25	e.31	.37	.39	.71	.88	.16	.18	.09	.09	.09
23	.51	.27	e.36	.39	.38	.64	1.1	.14	.09	.59	1.7	.09
24	.44	.29	e.25	.35	30	.61	.59	.23	.06	.26	12	.05
25	.44	2.2	e.97	.35	4.1	.56	.46	.18	.05	.09	2.0	.04
26	.44	.66	e.40	.53	1.3	.54	.43	.12	.05	.06	.52	.05
27	.44	.37	e.34	.39	1.0	.53	.40	.11	.04	.05	.12	.05
28	.40	.33	e.21	.44	.76	.65	.39	.10	.04	.05	.08	.05
29	.36	.30	e.34	4.0	---	.86	.31	.08	.58	.04	.06	.07
30	.40	.28	e.30	1.5	---	.69	.49	.78	.08	.05	.06	.06
31	.51	---	e.16	.71	---	.75	---	3.7	---	.05	.09	---
MEAN	3.05	.85	.42	.76	1.89	.90	3.36	.46	.72	.58	.76	.54
MAX	51	5.3	1.9	4.0	30	4.5	55	3.7	10	7.6	12	6.9
MIN	.24	.22	.16	.18	.35	.48	.31	.07	.04	.04	.03	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	1.07	.68	.48	1.62	2.90	1.88	2.70	3.33	2.75	1.61	1.22	.61
MAX	3.05	.90	.58	3.70	6.73	4.56	5.02	6.39	5.92	3.28	1.72	.95
(WY)	2001	1999	1998	1999	1999	1998	1998	1998	1998	1998	1998	2000
MIN	.24	.32	.42	.30	1.26	.57	.52	.46	.72	.55	.72	.33
(WY)	1998	2000	2001	2000	1998	2000	2000	2001	2001	1997	1997	1998

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	1.60		1.18		1.72	
HIGHEST ANNUAL MEAN					2.65	1998
LOWEST ANNUAL MEAN					1.18	2001
HIGHEST DAILY MEAN	70	May 7	55	Apr 10	215	Jun 11 1999
LOWEST DAILY MEAN	.14	Apr 22	.03	Aug 1,6,8	.03	Aug 1,6-8 2001
ANNUAL SEVEN-DAY MINIMUM	.17	Sep 2	.05	Jul 26	.05	Jul 26 2001
MAXIMUM PEAK FLOW	---		918	Apr 10	2780[a]	Jun 11 1999
MAXIMUM PEAK STAGE	---		6.49	Apr 10	10.53	Jun 11 1999
INSTANTANEOUS LOW FLOW	---		.02	Aug 6,8	.02	Aug 6,8 2001
10 PERCENT EXCEEDS	1.7		1.7		2.2	
50 PERCENT EXCEEDS	.34		.39		.47	
90 PERCENT EXCEEDS	.19		.06		.17	

e Estimated
[a] From rating extended above 870 ft^3/s.

06936200 COLDWATER CREEK NEAR HAZELWOOD, MO

LOCATION.--Lat 38°45'36", long 90°21'38", St. Louis County, Hydrologic Unit 10300200, on left downstream abutment of McDonnell Blvd. bridge, 1.23 mi south of Interstate 270, 0.61 mi east of U.S. Route 67 (Lindbergh Blvd.), and 3.82 mi upstream of the Missouri River.

DRAINAGE AREA.--12.1 mi^2.

PERIOD OF RECORD.--July 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 502.81 ft above sea level.

REMARKS.--Records fair except for those below 5 ft^3/s and above 1,200 ft^3/s, which are poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.1	2.2	1.6	3.2	4.0	2.3	3.9	3.9	1.1	1.3	1.1
2	1.5	13	8.5	2.0	2.7	3.4	7.7	1.4	2.5	1.5	11	1.1
3	1.5	1.9	3.1	1.5	1.3	2.8	51	1.4	24	1.2	5.3	1.2
4	7.0	1.5	2.4	1.5	1.8	2.6	4.5	1.3	36	21	1.3	1.2
5	75	1.4	2.2	5.9	2.1	1.9	2.7	3.9	3.6	21	1.3	1.1
6	3.0	47	2.1	8.6	2.2	2.0	2.6	1.7	30	1.7	1.2	1.2
7	1.6	5.0	2.2	5.3	2.0	1.9	2.1	1.4	3.5	1.3	1.2	1.2
8	1.4	2.3	2.4	2.3	2.5	1.9	2.0	1.4	2.2	1.4	1.2	98
9	1.3	53	2.1	1.7	44	1.8	19	1.6	2.3	1.5	7.5	32
10	1.3	7.4	2.5	1.8	4.2	1.8	76	1.3	1.8	1.5	5.6	1.7
11	1.4	3.0	25	2.2	2.5	1.8	25	1.3	1.8	1.5	1.2	1.1
12	1.4	17	2.4	3.7	2.5	2.2	5.9	1.3	1.6	11	1.1	1.0
13	1.5	14	1.2	12	7.8	2.3	3.2	1.4	1.7	1.5	1.1	1.0
14	8.3	2.7	2.3	14	16	2.0	2.7	1.3	31	1.3	1.0	1.1
15	33	2.0	5.6	5.2	3.8	88	26	1.2	11	1.6	1.9	1.2
16	45	2.2	11	3.3	2.9	28	3.0	1.2	1.6	1.3	4.6	1.0
17	7.3	2.0	5.3	2.7	2.1	5.4	2.2	20	1.4	1.8	1.2	1.1
18	2.1	1.8	3.0	2.5	1.7	3.4	2.0	53	1.4	66	1.2	76
19	2.0	1.7	3.4	2.1	2.4	2.9	2.0	6.8	1.3	31	.98	3.9
20	1.6	2.4	3.3	1.8	2.2	2.6	1.9	5.8	12	12	1.0	4.3
21	1.5	1.6	2.4	1.5	1.8	2.3	1.9	26	21	1.7	1.2	8.6
22	7.4	1.5	1.5	1.5	5.3	4.9	5.2	2.0	2.1	1.3	1.8	1.2
23	1.7	1.5	1.2	1.6	5.9	2.5	4.0	2.3	1.4	38	25	1.1
24	1.6	3.2	1.4	1.6	170	3.3	2.1	1.8	1.3	17	29	1.0
25	1.7	45	1.2	1.5	19	2.0	1.7	1.9	1.3	1.6	4.7	1.8
26	1.8	6.0	2.4	5.1	6.7	1.8	1.7	2.2	1.4	1.4	1.5	1.0
27	2.0	2.9	2.8	2.1	7.3	1.8	1.7	1.3	51	1.2	1.2	.98
28	1.8	2.4	1.9	2.7	5.5	1.9	1.7	1.3	4.4	1.3	1.5	1.0
29	1.8	2.3	1.9	50	---	2.2	1.7	6.1	1.3	1.2	1.6	1.0
30	1.8	2.0	1.6	14	---	2.6	13	38	1.1	1.3	1.2	1.0
31	2.0	---	1.6	4.7	---	2.6	---	77	---	1.6	1.2	---
MEAN	7.22	8.39	3.62	5.42	11.8	6.15	9.28	8.79	8.70	8.06	3.94	8.34
MAX	75	53	25	50	170	88	76	77	51	66	29	98
MIN	1.3	1.4	1.2	1.5	1.3	1.8	1.7	1.2	1.1	1.1	.98	.98
IN.	.69	.77	.34	.52	1.02	.59	.86	.84	.80	.77	.38	.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	6.72	11.7	5.04	10.6	20.0	14.0	11.9	13.4	22.9	13.9	7.84	6.95
MAX	9.35	29.7	6.30	25.3	31.9	35.1	22.0	24.5	35.5	28.9	10.1	10.7
(WY)	1997	1997	1998	1999	1999	1998	1998	2000	2000	1998	1996	1996
MIN	4.70	2.13	3.62	2.94	11.8	5.51	5.52	7.22	8.70	6.09	3.94	2.46
(WY)	2000	2000	2001	2000	2001	2000	2000	1999	2001	2000	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL MEAN	10.8		7.43		11.9	
HIGHEST ANNUAL MEAN					15.8	1998
LOWEST ANNUAL MEAN					7.43	2001
HIGHEST DAILY MEAN	624	Jun 24	170	Feb 24	624	Jun 24 2000
LOWEST DAILY MEAN	.56	Jan 28	.98	Aug 19,Sep 27	.55	Oct 19 1999
ANNUAL SEVEN-DAY MINIMUM	.79	Jan 25	1.1	Sep 11	.62	Oct 18 1999
MAXIMUM PEAK FLOW	---		1370[a]	Sep 8	2790[a]	Jun 12 1999
MAXIMUM PEAK STAGE	---		12.05	Sep 8	18.33	Jun 12 1999
INSTANTANEOUS LOW FLOW	---		.84	Sep 13-15,26-28,30	.36	Oct 20 1999, Jan 29,Sep 22 2000
ANNUAL RUNOFF (INCHES)	12.14		8.34		13.36	
10 PERCENT EXCEEDS	18		20		24	
50 PERCENT EXCEEDS	1.9		2.0		2.5	
90 PERCENT EXCEEDS	1.3		1.2		1.2	

[a] From rating extended above 568 ft^3/s.

06936475 COLDWATER CREEK NEAR BLACK JACK, MO

LOCATION.--Lat 38°49'04", long 90°15'04", in NE $^1/_4$ SE $^1/_4$ NW $^1/_4$ sec.17, T.47 N., R.7 E., St. Louis County, Hydrologic Unit 10300200, on right downstream abutment of Old Jamestown Road bridge, 0.36 mi south of U.S. Route 67 (Lindbergh Blvd.), 1.1 mi west of Highway 367 (Lewis and Clark Blvd.), and 3.8 mi upstream of the Missouri River.

DRAINAGE AREA.--40.4 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage unknown.

REMARKS.--Water-discharge records fair except for extimated daily discharges and those below 5 ft^3/s and above 2,500 ft^3/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	8.9	6.0	e4.6	9.5	14	8.7	32	13	15	2.8	2.7
2	5.0	37	13	e5.4	7.2	12	7.5	7.1	16	14	135	2.6
3	5.6	7.6	10	e5.7	6.9	10	131	5.9	61	5.1	151	2.6
4	467	4.5	6.3	e4.5	7.2	9.1	23	5.4	177	105	6.0	2.6
5	583	3.4	5.5	e12	6.6	7.7	10	13	17	38	3.1	2.6
6	17	139	5.1	e26	6.0	7.2	9.4	16	79	6.0	2.7	2.6
7	7.4	32	5.5	e16	5.7	7.3	8.9	6.9	13	3.2	2.8	2.6
8	5.6	6.6	6.3	e11	5.8	6.9	8.3	5.3	8.5	2.5	2.5	6.5
9	4.5	178	6.1	e9.2	171	6.6	9.0	4.7	6.8	2.8	12	358
10	4.6	26	5.5	e7.4	17	6.6	642	4.8	6.2	2.8	62	16
11	4.4	12	73	e7.0	8.8	6.4	871	4.5	5.6	4.2	6.4	4.9
12	4.5	15	15	e7.8	8.2	6.8	43	4.4	5.3	21	5.1	3.6
13	4.5	72	e6.4	23	13	6.0	18	4.1	4.6	8.5	2.4	3.2
14	4.5	9.0	e5.6	102	30	5.5	15	4.2	4.4	3.3	2.4	3.2
15	86	6.7	e7.0	27	11	117	76	4.7	113	2.1	2.4	3.2
16	101	6.2	22	16	7.8	231	15	4.4	6.5	2.3	7.7	2.9
17	56	6.2	e9.6	13	6.3	22	11	30	4.1	2.4	4.5	2.8
18	8.0	6.0	e7.1	11	5.9	15	10	109	4.7	216	18	260
19	6.2	5.7	e7.4	9.0	6.6	13	10	83	3.5	114	3.4	40
20	6.6	5.4	e8.4	6.7	6.7	12	9.6	7.9	49	19	2.6	4.9
21	6.2	6.4	e7.4	6.1	5.9	11	9.4	92	68	14	2.9	23
22	11	6.2	e6.0	5.9	7.4	13	12	7.8	15	5.8	2.6	4.6
23	9.9	6.4	e5.1	5.8	8.9	13	14	8.6	5.0	36	44	2.3
24	6.2	6.2	e5.1	5.4	589	11	11	8.1	4.0	71	305	2.1
25	6.3	131	e5.0	4.8	159	9.4	7.8	5.7	3.6	7.4	34	2.1
26	6.9	21	e5.8	9.6	23	8.5	7.5	6.5	3.3	4.2	15	2.4
27	6.9	8.0	e6.6	10	19	8.3	7.3	5.5	32	3.8	4.3	2.2
28	7.6	6.8	e6.2	5.9	19	8.3	6.9	4.2	46	3.1	3.2	2.1
29	7.5	5.6	e5.6	158	---	8.1	6.4	3.8	80	2.7	3.1	2.1
30	7.0	5.4	e5.2	55	---	8.6	16	35	12	2.4	2.9	2.1
31	8.0	---	e4.9	15	---	8.0	---	304	---	2.4	2.8	---
MEAN	47.4	26.3	9.47	19.5	42.1	20.3	67.8	27.0	28.9	23.9	27.6	25.8
MAX	583	178	73	158	589	231	871	304	177	216	305	358
MIN	4.4	3.4	4.9	4.5	5.7	5.5	6.4	3.8	3.3	2.1	2.4	2.1
IN.	1.35	.73	.27	.56	1.09	.58	1.87	.77	.80	.68	.79	.71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	25.0	36.6	13.9	38.3	83.4	47.2	48.9	56.8	76.6	47.9	27.1	19.9
MAX	47.4	95.6	18.7	79.3	173	118	82.3	134	123	109	44.5	25.8
(WY)	2001	1997	1998	1999	1999	1998	1998	2000	2000	1998	1998	1996
MIN	14.8	7.37	8.59	8.25	42.1	14.9	17.3	27.0	23.2	19.0	17.0	6.60
(WY)	2000	2000	1999	2000	2001	2000	2000	2001	1997	1997	1996	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL MEAN	44.0		30.3		43.2	
HIGHEST ANNUAL MEAN					57.4	1998
LOWEST ANNUAL MEAN					30.3	2001
HIGHEST DAILY MEAN	2910	May 7	871	Apr 11	4030	Feb 7 1999
LOWEST DAILY MEAN	2.4	Sep 20	2.1	Jul 15,Sep 24,25,28-30	1.4	Sep 22 1996
ANNUAL SEVEN-DAY MINIMUM	3.2	Jan 24	2.2	Sep 24	2.0	Sep 2 1999
MAXIMUM PEAK FLOW	---		10600[a]	Apr 10	13000[a]	May 7 2000
MAXIMUM PEAK STAGE	---		10.67	Apr 10	11.46	May 7 2000
INSTANTANEOUS LOW FLOW	---		2.0	Jul 15-17	.75	Sep 29 1997
ANNUAL RUNOFF (INCHES)	14.84		10.20		14.54	
10 PERCENT EXCEEDS	65		71		81	
50 PERCENT EXCEEDS	6.3		7.1		7.8	
90 PERCENT EXCEEDS	3.9		2.9		3.1	

e Estimated
[a] From rating extended above 1,250 ft^3/s.

06936475 COLDWATER CREEK NEAR BLACK JACK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1996 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
DEC												
18...	1220	ENVIRONMENTAL	7.1	7.5	52	7.8	4370	.4	390	100	33.0	235
FEB												
09...	1143	ENVIRONMENTAL	678	4.6	41	7.5	1080	9.2	260	64.0	24.0	189
27...	1150	ENVIRONMENTAL	18	7.8	64	7.2	992	7.4	270	70.0	23.0	197
APR												
03...	0526	ENVIRONMENTAL	397	9.0	83	7.5	709	11.1	390	89.0	41.0	233
AUG												
27...	1600	ENVIRONMENTAL	3.6	4.9	62	7.4	311	26.8	94	27.0	6.40	71

DATE	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2) (00405)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)
DEC													
18...	216	264	0	2000	22	1.1	<.01	<.02	<.01	.030	.200	7.9	210
FEB													
09...	190	232	0	--	3600	7.6	.72	.5	.04	.070	2.20	11	27
27...	197	241	0	160	24	1.3	.30	<.02	<.01	.060	.160	24	40
APR													
03...	236	288	0	--	90	1.2	.16	.1	.01	.080	.230	14	19
AUG													
27...	72	88	0	--	17	.70	.08	.6	.03	.120	.180	5.7	19

DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)
DEC													
18...	120	550	700	38	2.5	<1.00	<1.00	4.0	3.3	430	1.00	1800	<.10
FEB													
09...	K1500	K340	10000	320	2.2	<1.00	<1.00	3.0	2.2	360	<1.00	690	<.10
27...	1400	2700	2500	120	1.7	<1.00	<1.00	<1.0	2.2	150	<1.00	470	<.10
APR													
03...	3200	2600	38000	14	2.3	<1.00	<1.00	2.0	2.5	70	<1.00	310	<.10
AUG													
27...	180	K600	140	58	2.6	<1.00	<1.00	<1.0	2.3	100	<1.00	74.0	<.10

DATE	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	2,4,6-TRI-CHLORO-PHENOL TOTAL (µg/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (µg/L) (34601)	2,4,-DI-NITRO-PHENOL TOTAL (µg/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (µg/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (µg/L) (34626)
DEC													
18...	3.60	<1.0	<1.0	230	--	--	--	--	--	--	--	--	--
FEB													
09...	3.30	1.6	<1.0	160	3	E1	<1	<1	<2	<2	<20	<1	<1
27...	2.00	2.3	<1.0	15	--	--	--	--	--	--	--	--	--
APR													
03...	4.20	2.1	<1.0	95	2	<1	<1	<1	<2	<2	<20	<1	<1
AUG													
27...	1.60	<1.0	<1.0	94	--	--	--	--	--	--	--	--	--

06936475 COLDWATER CREEK NEAR BLACK JACK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	2-CHLORONAPHTHALENE TOTAL (µg/L) (34581)	2-CHLOROPHENOL TOTAL (µg/L) (34586)	2-NITROPHENOL TOTAL (µg/L) (34591)	3,3'-DICHLOROBENZIDINE TOTAL (µg/L) (34631)	4,6-DINITRO-ORTHO-CRESOL TOTAL (µg/L) (34657)	4-BROMOPHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4-CHLOROPHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4-NITROPHENOL TOTAL (µg/L) (34646)	ACENAPHTHENE TOTAL (µg/L) (34205)	ACENAPHTHYLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRACENE TOTAL (µg/L) (34220)	BENZENE NITROWATER UNFLTRD RECOVER (µg/L) (34447)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<1	<1	<1	<1	<2	<1	<1	M	M	M	<.013	M	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<1	<1	<1	<1	<2	<1	<1	<1	M	M	<.013	M	<2
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZIDINE TOTAL (µg/L) (39120)	BENZO-A-PYRENE TOTAL (µg/L) (34247)	BENZO B FLUORANTHENE TOTAL (µg/L) (34230)	BENZO K FLUORANTHENE TOTAL (µg/L) (34242)	BENZ(A)ANTHRACENE WATER UNFLTRD REC (µg/L) (34526)	BENZO-[GHI]-PERYLENE TOTAL (µg/L) (34521)	BIS(2-CHLOROETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2-CHLOROETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLOROISOPROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL) PHTHALATE TOTAL (µg/L) (39100)	CARBOPHENOTHION WATER UNFLTRD (µg/L) (39786)	CHLORDANE, TECHNICAL TOTAL (µg/L) (39350)	CHLORPYRIFOS TOTAL RECOVER (µg/L) (38932)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<40	4	6	E2	3	4	<1	<1	<1	<9	<.02	<.1	<.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<40	M	M	M	M	<1	<1	<1	<1	<9	<.02	<.1	<.04
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CHRYSENE TOTAL (µg/L) (34320)	CYCLOPENTADIENE HEXACHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DIAZINON, TOTAL (µg/L) (39570)	DIELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHALATE TOTAL (µg/L) (34336)	DIMETHYL PHTHALATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHALATE TOTAL (µg/L) (39110)	DI-N-OCTYL PHTHALATE TOTAL (µg/L) (34596)	DISULFOTON UNFILT RECOVER (µg/L) (39011)	ENDOSULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	5	<1	<.02	.02	<.006	<2	<2	<2	<1	<.03	<.015	<.014	<.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	M	<1	<.04	E.04	<.006	M	M	M	M	<.07	<.015	<.014	<.01
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	FLUORANTHENE TOTAL (µg/L) (34376)	FLUORENE TOTAL (µg/L) (34381)	FONOFOS (DYFONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTACHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTACHLOR, TOTAL (µg/L) (39410)	HEXACHLOROBENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (µg/L) (34403)	ISOPHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALATHION, TOTAL (µg/L) (39530)	METHOXYCHLOR, TOTAL (µg/L) (39480)	METHYL PARATHION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	10	M	<.01	<.009	<.014	<1	4	M	<.006	<.03	<.01	<.01	<.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	M	M	<.01	<.009	<.014	<1	<2	M	<.006	<.09	<.01	<.01	<.01
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

06936475 COLDWATER CREEK NEAR BLACK JACK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	N-BUTYL BENZYL PHTHALATE TOTAL (µg/L) (34292)	N-NITROSODIMETHYLAMINE TOTAL (µg/L) (34438)	N-NITROSODI-N-PROPYLAMINE TOTAL (µg/L) (34428)	N-NITROSODIPHENYLAMINE TOTAL (µg/L) (34433)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARACHLOROMETA CRESOL TOTAL (µg/L) (34452)	PARATHION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTACHLOROPHENOL TOTAL (µg/L) (39032)	PHENANTHRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	8	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	M	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	M	M
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOXAPHENE, TOTAL (µg/L) (39400)	1,1,1-TRICHLOROETHANE TOTAL (µg/L) (34506)	1,1-DICHLOROETHANE TOTAL (µg/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (µg/L) (34501)	1,2-DICHLOROETHANE TOTAL (µg/L) (32103)	1,2-DICHLOROPROPANE TOTAL (µg/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (µg/L) (34546)	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (µg/L) (34536)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<.02	8	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<.04	M	<1	<.10	<.10	<.10	<.2	<.10	<.10	<.2	<.10	<.10	<.10
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZENE TOTAL (µg/L) (34030)	BROMOFORM TOTAL (µg/L) (32104)	CARBON TETRACHLORIDE TOTAL (µg/L) (32102)	CHLOROBENZENE TOTAL (µg/L) (34301)	CHLORODIBROMOMETHANE TOTAL (µg/L) (32105)	CHLOROFORM TOTAL (µg/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (µg/L) (77093)	BROMODICHLOROMETHANE TOTAL (µg/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (µg/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	ETHANE HEXACHLORO-WATER UNFLTRD RECOVER (µg/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (µg/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µg/L) (50004)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<.10	<.20	<.20	<.10	<.2	.11	<.10	<.10	<.2	<.2	<1.0	<.2	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<.10	<.20	<.20	<.10	<.2	.30	<.10	<.10	<.2	<.2	<.4	<.2	<.10
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

06936475 COLDWATER CREEK NEAR BLACK JACK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<.2	<.10	<.10	<1.3	<.2	<.2	<.20	E.4	<.10	<.10	<.1	.96	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<.2	<.10	<.10	<.2	.6	<.2	<.20	<.2	.11	<.10	<.1	.22	1.70
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC		
18...	--	--
FEB		
09...	<.20	<.2
27...	--	--
APR		
03...	<.20	<.2
AUG		
27...	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

06936530 SPANISH LAKE TRIBUTARY NEAR BLACK JACK, MO

LOCATION.--Lat 38°48'04", long 90°12'59", in SE $^1/_4$ SE $^1/_4$ NW $^1/_4$, sec.22, T.47 N., R.7 E., St. Louis County, Hydrologic Unit 10300200, on left downstream wingwall of Bellefontaine Ave. bridge, 2.14 mi north of Interstate 270, 0.65 mi east of Highway 367 (Lewis and Clark Blvd.), and 1.9 mi upstream of the Missouri River.

DRAINAGE AREA.--0.25 mi^2.

PERIOD OF RECORD.--August 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 502.33 ft above sea level.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.02	.27	e.18	.23	.16	.11	.14	.20	e.08	.00	.00
2	.00	.40	.41	e.11	.18	.13	.12	.03	.16	e.09	.14	.00
3	.00	.06	.32	e.08	.14	.11	1.0	.02	.38	e.05	.22	.00
4	5.1	.03	.25	e.10	.12	.09	.36	.01	1.7	e1.1	.00	.00
5	5.3	.02	.20	e.23	.12	.06	.21	.01	.23	e.90	.00	.00
6	.46	2.2	.18	e.45	.11	.06	.17	.07	.59	e.34	.00	.00
7	.13	.69	.24	e.57	.11	.06	.15	.04	.10	e.06	.00	.00
8	.08	.16	.19	e.29	.11	.06	.12	.01	.03	e.03	.00	.00
9	.05	1.5	.14	e.16	1.2	.06	.12	.00	.01	e.04	.00	2.2
10	.04	.49	.16	e.18	.35	.05	5.1	.00	.00	e.02	.12	.08
11	.03	.22	1.1	e.15	.19	.06	4.9	.00	.00	e.00	.00	.00
12	.02	.58	e.23	e.28	.12	.06	.57	.00	.00	.00	.00	.00
13	.00	.94	e.18	.65	.25	.06	.37	.00	.00	.00	.00	.00
14	.00	.31	e.17	1.3	.33	.06	.29	.01	.00	.00	.00	.00
15	.77	.17	e.30	.73	.18	1.6	.60	.00	.00	.00	.00	.00
16	.78	.14	e.66	.75	.11	1.5	.23	.00	.00	.00	.00	.00
17	.62	.11	e.37	.40	.08	.37	.16	.04	.00	.23	.00	.00
18	.12	.10	e.19	.30	.09	.15	.17	.73	.00	1.3	.01	2.1
19	.06	.12	e.14	.26	.09	.11	.14	.27	.00	1.2	.00	.42
20	.05	.11	e.12	.21	.08	.09	.13	.02	.23	.17	.00	.06
21	.05	.09	e.08	.19	.05	.17	.14	.34	.39	.03	.00	.06
22	.12	.11	e.13	.18	.07	.12	.09	.02	.03	.01	.00	.01
23	.08	.14	e.23	.16	.08	.08	.14	.02	.00	.33	.25	.00
24	.03	.16	e.14	.14	3.7	.06	.10	.00	.00	.39	1.5	.01
25	.05	1.6	e.47	.13	1.1	.81	.07	.00	.00	.03	.24	.01
26	.05	.59	e.23	.27	.40	.30	.06	.00	.00	.00	.06	.00
27	.02	.34	e.18	.19	.23	.18	.06	.00	.00	.00	.01	.00
28	.02	.28	e.06	.15	.20	.17	.04	.00	.00	.00	.00	.00
29	.01	.24	e.11	1.6	---	.13	.04	.00	.98	.00	.00	.00
30	.02	.22	e.08	.81	---	.11	.08	.17	e.25	.00	.01	.00
31	.02	---	e.04	.41	---	.11	---	2.3	---	.00	.00	---
MEAN	.45	.40	.24	.37	.36	.23	.53	.14	.18	.21	.083	.16
MAX	5.3	2.2	1.1	1.6	3.7	1.6	5.1	2.3	1.7	1.3	1.5	2.2
MIN	.00	.02	.04	.08	.05	.05	.04	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	.19	.26	.18	.46	.73	.59	.48	.45	.54	.74	.16	.095
MAX	.45	.43	.24	.80	1.81	1.28	.74	.72	1.11	1.25	.26	.16
(WY)	2001	1999	2001	1999	1999	1998	1998	2000	1998	1998	1998	2001
MIN	.057	.021	.13	.26	.31	.23	.12	.14	.18	.21	.073	.003
(WY)	2000	2000	1999	2000	2000	2001	2000	2001	2001	2001	1999	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	.36		.28		.40	
HIGHEST ANNUAL MEAN					.54	1998
LOWEST ANNUAL MEAN					.28	2001
HIGHEST DAILY MEAN	13	May 7	5.3	Oct 5	31	Jul 30 1998
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Each Year
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 25	.00	Jun 10	.00	At Times
MAXIMUM PEAK FLOW	---		129	Apr 10	710[a]	Jul 30 1998
MAXIMUM PEAK STAGE	---		3.40	Apr 10	5.39	Jul 30 1998
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Each Year
10 PERCENT EXCEEDS	.69		.65		.78	
50 PERCENT EXCEEDS	.06		.11		.09	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
[a] From rating extended above 110 ft^3/s.

07001985 WATKINS CREEK AT BELLEFONTAINE NEIGHBORS, MO

LOCATION.--Lat 38°45'44", long 90°11'48", St. Louis County, Hydrologic Unit 07140101, on left downstream wingwall of Fry Lane bridge, 0.34 mi south of Interstate 270, 2.34 mi east of Highway 367 (Lewis and Clark Blvd.), and 1.76 mi upstream of Mississippi River.

DRAINAGE AREA.--5.19 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 431.94 ft above sea level.

REMARKS.--Water-discharge records fair except for estimated daily discharges, those below 1 ft^3/s and above 800 ft^3/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	.55	.61	e.92	1.6	1.6	1.2	5.7	1.1	.90	.17	.12
2	.30	3.2	1.3	e.74	1.3	1.4	1.3	3.9	1.3	1.1	3.6	.11
3	.30	.44	.91	e.57	1.1	1.2	13	1.5	4.8	.35	3.3	.10
4	76	.38	.78	e.89	1.2	1.1	2.3	1.1	19	2.2	.20	.10
5	53	.33	.76	e1.3	1.2	1.0	1.2	1.2	1.2	.28	.17	.10
6	1.1	24	.72	e5.3	1.1	1.1	1.2	6.5	5.6	.22	.17	.10
7	.50	2.4	.78	e4.4	1.1	1.0	1.2	3.5	.78	.21	.17	.10
8	.47	.54	.77	e1.6	1.1	1.0	1.1	1.1	.52	.21	.17	2.1
9	.53	15	.76	e.96	17	1.0	1.3	.83	.37	.21	.17	32
10	.54	1.6	.94	e.87	2.4	1.0	57	.79	.32	.21	.79	.31
11	.55	.71	7.6	e1.0	1.4	1.0	29	.62	.29	.21	.15	.12
12	.57	4.3	e.94	e1.3	1.3	1.1	3.3	.51	.36	1.0	.15	.12
13	.57	7.0	e.86	e2.6	3.0	.97	1.5	.53	.23	.31	.15	.11
14	.64	.84	e.82	6.9	4.8	.97	1.2	.57	.23	.21	.14	.10
15	8.0	.71	e1.1	4.0	1.6	26	8.6	.54	.74	.20	.13	.10
16	11	.67	e4.1	2.6	1.2	13	2.2	.41	.30	.19	.65	.10
17	3.0	.71	e1.1	1.5	1.2	2.8	.99	4.8	.25	4.4	.15	.10
18	.69	.68	e.87	1.4	1.4	1.8	1.1	14	.23	20	.41	32
19	.56	.69	e.87	1.3	2.7	1.7	1.1	3.2	.23	12	.38	1.1
20	.54	.81	e.79	1.2	2.6	1.5	1.1	.54	4.3	.80	.13	.19
21	.57	1.3	e.77	1.2	2.4	1.5	1.0	4.9	4.8	.35	.13	.52
22	1.6	.47	e.77	1.1	2.8	1.8	1.1	.52	.61	13	.13	.12
23	.70	.46	e.86	1.1	2.6	1.5	1.5	.63	.26	3.5	5.0	.10
24	.61	.62	e.79	1.4	52	1.4	.96	.56	.23	2.8	14	.19
25	.60	13	e2.3	1.2	11	1.3	.82	.60	.23	.30	.82	.10
26	.60	1.6	e1.1	2.0	4.0	1.2	.81	.45	.21	.19	.37	.09
27	.60	.76	e.86	1.3	2.1	1.2	.83	.37	.21	.19	.14	.09
28	.59	.63	e.66	1.0	2.1	1.2	.77	.31	.21	.45	.13	.09
29	.55	.55	e.84	19	---	1.2	.68	.33	12	.19	.13	.09
30	.57	.61	e.81	7.0	---	1.2	4.2	5.9	1.2	.17	.15	.09
31	.57	---	e.61	2.4	---	1.2	---	35	---	.17	.14	---
MEAN	5.38	2.85	1.22	2.58	4.62	2.48	4.79	3.27	2.07	2.15	1.05	2.36
MAX	76	24	7.6	19	52	26	57	35	19	20	14	32
MIN	.30	.33	.61	.57	1.1	.97	.68	.31	.21	.17	.13	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	2.83	2.56	1.51	5.20	7.98	7.10	6.07	7.02	7.30	7.88	4.06	1.95
MAX	5.38	4.36	1.69	13.2	17.1	18.5	11.3	11.9	17.5	18.5	10.9	2.69
(WY)	2001	1999	2000	1999	1999	1998	1998	2000	1998	1998	1998	1998
MIN	.50	.95	1.22	.90	3.92	1.71	1.23	3.27	1.66	.32	1.05	.56
(WY)	1998	2000	2001	2000	1998	2000	2000	2001	1997	1997	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	4.92		2.89		5.44	
HIGHEST ANNUAL MEAN					8.19	1998
LOWEST ANNUAL MEAN					2.89	2001
HIGHEST DAILY MEAN	229	May 7	76	Oct 4	381	Jul 30 1998
LOWEST DAILY MEAN	.17	Jul 27	.09	Sep 26-30	.05	Oct 5 1997
ANNUAL SEVEN-DAY MINIMUM	.22	Apr 29	.10	Sep 1	.06	Oct 1 1997
MAXIMUM PEAK FLOW	---		1310[a]	Apr 10	4800[a]	Jul 30 1998
MAXIMUM PEAK STAGE	---		8.19	Apr 10	13.10	Jul 30 1998
INSTANTANEOUS LOW FLOW	---		.09	Sep 25-30	.09	Sep 25-30 2001
10 PERCENT EXCEEDS	6.3		5.1		8.1	
50 PERCENT EXCEEDS	.57		.87		.96	
90 PERCENT EXCEEDS	.25		.16		.18	

e Estimated
[a] From rating extended above 396 ft^3/s.

07001985 WATKINS CREEK AT BELLEFONTAINE NEIGHBORS, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
DEC												
18...	1615	ENVIRONMENTAL	e.87	10.2	70.9	7.5	4560	.2	610	170	45.0	189
FEB												
09...	0950	ENVIRONMENTAL	55	9.9	91.3	7.6	764	10.8	232	60.0	20.0	148
27...	1335	ENVIRONMENTAL	2.1	10.5	82.7	7.3	981	5.4	290	75.0	25.0	155
APR												
10...	2259	ENVIRONMENTAL	439	6.1	63.3	7.6	463	17.1	154	42.0	12.0	135
MAY												
30...	0645	ENVIRONMENTAL	.39	6.3	69.4	7.6	820	19.2	239	61.0	21.0	170
AUG												
27...	1500	ENVIRONMENTAL	.13	4.0	51.7	7.4	583	26.8	176	49.0	13.0	120

DATE	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2) (00405)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)
DEC													
18...	189	231	0	2600	16	2.2	1.60	.7	.04	.070	.120	10.8	97
FEB													
09...	156	191	0	--	760	1.9	.03	.7	<.01	.100	.710	6.6	17
27...	154	188	0	140	16	.66	.20	1.2	.02	.070	.110	16.1	17
APR													
10...	130	158	0	--	11160	16	.23	.3	.05	.080	6.70	7.2	57
MAY													
30...	172	209	0	--	15	.79	.17	.3	.01	.070	.130	7.5	39
AUG													
27...	120	147	0	--	44	.70	.11	.4	.02	.170	.270	9.2	24

DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)
DEC													
18...	270	K620	940	15	<1.0	<1.00	<1.00	3.0	3.4	100	<1.00	1900	<.10
FEB													
09...	K1000	K500	K7700	200	1.2	<1.00	<1.00	3.0	2.1	180	<1.00	440	<.10
27...	K1	K29	K24	23	<1.0	<1.00	<1.00	2.0	1.5	20	<1.00	370	<.10
APR													
10...	K20000	K20000	K30000	2200	3.4	<1.00	<1.00	5.0	11.0	3900	14.0	1300	.20
MAY													
30...	K19000	K14000	K24000	15	2.3	<1.00	<1.00	<1.0	1.8	40	<1.00	480	<.10
AUG													
27...	K270	K3300	550	38	3.0	<1.00	<1.00	<1.0	1.7	70	<1.00	419	<.10

07001985 WATKINS CREEK AT BELLEFONTAINE NEIGHBORS, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	2,4,6-TRI-CHLORO-PHENOL TOTAL (µg/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (µg/L) (34601)	2,4,-DI-NITRO-PHENOL TOTAL (µg/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (µg/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (µg/L) (34626)
DEC													
18...	2.90	<1.0	<1.0	59	--	--	--	--	--	--	--	--	--
FEB													
09...	2.40	<1.0	<1.0	15	4	M	<1	<1	<2	<2	<20	<1	<1
27...	1.50	1.2	<1.0	28	--	--	--	--	--	--	--	--	--
APR													
10...	9.80	<1.0	<1.0	100	3	M	<1	<1	<2	M	<20	<1	<1
MAY													
30...	4.20	<1.0	<1.0	200	--	--	--	--	--	--	--	--	--
AUG													
27...	2.50	<1.0	<1.0	78	--	--	--	--	--	--	--	--	--

DATE	2-CHLORO-NAPH-THALENE TOTAL (µg/L) (34581)	2-CHLORO-PHENOL TOTAL (µg/L) (34586)	2-NITRO-PHENOL TOTAL (µg/L) (34591)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (µg/L) (34631)	4,6-DINITRO -ORTHO-CRESOL TOTAL (µg/L) (34657)	4-BROMO-PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4-NITRO-PHENOL TOTAL (µg/L) (34646)	ACE-NAPHTH-ENE TOTAL (µg/L) (34205)	ACE-NAPHTH-YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA-CENE TOTAL (µg/L) (34220)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<1	<1	<1	<1	<2	<1	<1	M	M	M	<.013	M	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
10...	<1	<1	M	<1	<2	<1	<1	4	M	M	<.013	M	<2
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZI-DINE TOTAL (µg/L) (39120)	BENZO-A-PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR-AN-THENE TOTAL (µg/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA-CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO-[GHI]-PERY-LENE TOTAL (µg/L) (34521)	BIS(2-CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2-CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (µg/L) (39100)	CARBO-PHENO-THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<40	E2	4	E1	E1	E3	<1	<1	<1	<9	<.02	<.1	<.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
10...	<40	4	5	E2	3	E3	<1	<1	<1	M	<.02	<.1	.02
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CHRY-SENE TOTAL (µg/L) (34320)	CYCLOPE NTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)	DI-N-OCTYL PHTHAL-ATE TOTAL (µg/L) (34596)	DISUL-FOTON UNFILT RECOVER (µg/L) (39011)	ENDO-SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	3	<1	<.02	<.02	<.006	<2	<2	E1	<1	<.03	<.015	<.014	<.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
10...	4	<1	<.02	.08	<.006	M	M	M	M	<.07	<.015	<.014	<.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

07001985 WATKINS CREEK AT BELLEFONTAINE NEIGHBORS, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	FLUORANTHENE TOTAL (µg/L) (34376)	FLUORENE TOTAL (µg/L) (34381)	FONOFOS (DYFONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTACHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTACHLOR, TOTAL (µg/L) (39410)	HEXACHLOROBENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (µg/L) (34403)	ISOPHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALATHION, TOTAL (µg/L) (39530)	METHOXYCHLOR, TOTAL (µg/L) (39480)	METHYL PARATHION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	6	M	<.01	<.009	<.014	<1	E3	M	<.006	<.03	<.01	<.01	<.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
10...	8	M	<.01	<.009	<.014	<1	E3	M	<.006	<.03	<.01	<.01	<.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	N-BUTYL BENZYL PHTHALATE TOTAL (µg/L) (34292)	N-NITROSODI-METHYLAMINE TOTAL (µg/L) (34438)	N-NITROSODI-N-PROPYLAMINE TOTAL (µg/L) (34428)	N-NITROSODI-PHENYLAMINE TOTAL (µg/L) (34433)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARACHLOROMETA CRESOL TOTAL (µg/L) (34452)	PARATHION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTACHLOROPHENOL TOTAL (µg/L) (39032)	PHENANTHRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	3	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
10...	M	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	4	M
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOXAPHENE, TOTAL (µg/L) (39400)	1,1,1-TRICHLOROETHANE TOTAL (µg/L) (34506)	1,1-DICHLOROETHANE TOTAL (µg/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (µg/L) (34501)	1,2-DICHLOROETHANE TOTAL (µg/L) (32103)	1,2-DICHLOROPROPANE TOTAL (µg/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (µg/L) (34546)	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (µg/L) (34536)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<.02	5	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
10...	<.02	6	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZENE TOTAL (µg/L) (34030)	BROMOFORM TOTAL (µg/L) (32104)	CARBON TETRACHLORIDE TOTAL (µg/L) (32102)	CHLOROBENZENE TOTAL (µg/L) (34301)	CHLORODIBROMOMETHANE TOTAL (µg/L) (32105)	CHLOROFORM TOTAL (µg/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (µg/L) (77093)	BROMODICHLOROMETHANE TOTAL (µg/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (µg/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	ETHANE HEXACHLORO-WATER UNFLTRD RECOVER (µg/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (µg/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µg/L) (50004)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
10...	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

07001985 WATKINS CREEK AT BELLEFONTAINE NEIGHBORS, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<.2	<.10	<.10	<1.3	3.9	<.2	<.20	E.1	<.10	<.10	<.1	<.10	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
10...	<.2	<.10	<.10	<1.3	2.2	<.2	<.20	E.1	<.10	<.10	<.1	<.10	<.10
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC		
18...	--	--
FEB		
09...	<.20	<.2
27...	--	--
APR		
10...	<.20	<.2
MAY		
30...	--	--
AUG		
27...	--	--

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07005000 MALINE CREEK AT BELLEFONTAINE NEIGHBORS, MO

LOCATION.--Lat 38°44'12", long 90°13'35", in SE $^1/_4$ NE $^1/_4$ NE $^1/_4$ sec.9, T.46 N., R.7 E., St. Louis County, Hydrologic Unit 07140101, on left downstream wingwall of Bellefontaine Road bridge, 2.32 mi south of Interstate 270, 0.80 mi east of Highway 367 (Lewis and Clark Blvd.), and 1.03 mi upstream of Mississippi River.

DRAINAGE AREA.--24.42 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 409.96 ft above sea level.

REMARKS.--Water-discharge records fair except for estimated daily discharges and those below 5 ft^3/s, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 24, 1970 reached a stage of 19.13 ft, former datum, discharge unknown.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	.79	.87	1.5	5.0	7.3	3.6	10	8.2	1.7	.34	.26
2	.34	15	4.9	.93	3.1	6.9	3.6	.90	3.0	1.8	30	.16
3	.40	2.1	3.4	.81	2.5	6.5	45	.63	14	1.5	22	.09
4	29	.51	1.1	1.1	3.0	5.6	11	.54	40	e20	2.3	.08
5	59	.34	.93	4.5	3.1	4.9	5.5	.79	e5.5	e18	.83	.08
6	4.5	46	.89	16	3.8	4.2	5.1	5.8	e32	e6.0	.56	.12
7	.82	11	.90	15	4.0	4.2	4.3	1.2	e5.5	1.3	.61	.25
8	.54	1.8	.89	7.4	4.8	4.0	3.4	.58	e1.7	e1.3	.31	4.0
9	.41	45	.78	3.2	43	3.5	4.1	.51	e1.7	e1.4	.22	89
10	.36	10	.77	3.1	9.4	3.3	41	e.34	e1.2	e1.4	8.3	4.7
11	.34	2.6	23	3.7	4.6	3.1	49	e1.1	e1.3	1.3	2.2	1.1
12	.29	8.2	5.1	5.8	4.3	3.6	11	.43	e.95	6.2	.43	.82
13	.32	26	1.3	8.9	10	3.2	3.7	.26	e1.3	4.4	.21	.29
14	.49	3.2	1.3	30	26	2.1	2.8	e.26	e29	1.9	.10	.20
15	42	1.4	2.8	11	7.3	64	24	e.24	e14	.82	.06	.13
16	38	.84	8.7	7.4	4.8	44	2.9	e.23	.71	.30	5.3	.10
17	18	.92	5.2	4.8	3.7	11	2.1	e18	.36	4.8	1.0	.12
18	2.9	.85	3.4	4.2	3.5	7.4	2.2	e40	.25	44	1.1	61
19	1.0	.77	1.8	3.8	3.9	6.3	1.8	e13	.26	37	.41	9.3
20	.66	.72	1.4	3.0	3.9	6.3	2.3	e4.3	14	7.4	.12	1.3
21	.57	.78	1.3	2.5	3.2	5.5	2.3	e20	17	3.6	.08	6.8
22	8.6	.75	1.6	2.8	4.6	6.3	4.3	e3.3	3.8	11	.07	1.0
23	3.6	.81	2.1	3.0	5.5	6.0	3.7	e4.0	.63	8.9	7.7	.40
24	.63	1.4	1.7	5.3	111	4.7	3.0	e3.0	.39	14	36	.24
25	.61	46	4.4	2.5	29	4.3	.93	.99	.32	3.0	5.5	.19
26	.71	9.2	2.5	6.8	11	3.0	.96	.78	.24	1.5	.99	.51
27	.72	2.6	2.1	3.6	9.8	2.5	1.1	.55	.20	1.0	.56	.32
28	.74	1.5	1.1	1.4	9.5	2.6	.81	.40	.26	.46	.39	.25
29	.74	.82	1.4	39	---	2.6	.71	.35	6.1	.43	.25	.14
30	.63	.66	1.1	22	---	2.8	4.4	12	5.0	.52	.18	.11
31	.71	---	.95	8.6	---	2.4	---	95	---	.90	.15	---
MEAN	7.03	8.09	2.89	7.54	12.0	7.87	8.35	7.73	6.96	6.70	4.14	6.10
MAX	59	46	23	39	111	64	49	95	40	44	36	89
MIN	.29	.34	.77	.81	2.5	2.1	.71	.23	.20	.30	.06	.08
IN.	.33	.37	.14	.36	.51	.37	.38	.37	.32	.32	.20	.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	9.02	19.4	8.01	20.5	31.1	25.8	16.8	17.6	28.7	18.6	15.7	9.13
MAX	12.8	51.7	17.2	45.3	55.5	69.3	31.0	24.7	61.2	42.7	32.9	14.0
(WY)	1997	1997	2000	1999	1999	1998	1998	2000	1998	1998	1998	1998
MIN	6.56	7.62	2.89	7.54	12.0	7.12	7.57	7.73	6.96	1.16	4.14	3.12
(WY)	2000	2000	2001	2001	2001	2000	2000	2001	2001	1997	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL MEAN	12.4		7.08		18.1	
HIGHEST ANNUAL MEAN					27.7	1998
LOWEST ANNUAL MEAN					7.08	2001
HIGHEST DAILY MEAN	452	Jun 24	111	Feb 24	1050	Feb 7 1999
LOWEST DAILY MEAN	.29	Oct 12	.06	Aug 15	.06	Aug 15 2001
ANNUAL SEVEN-DAY MINIMUM	.39	Oct 8	.13	Aug 31	.13	Aug 31 2001
MAXIMUM PEAK FLOW	---		1030	Sep 9	5270[a]	Jul 28 1996
MAXIMUM PEAK STAGE	---		6.79	Sep 9	16.26	Jul 28 1996
INSTANTANEOUS LOW FLOW	---		.05	Aug 15,22	.05	Aug 15,22 2001
ANNUAL RUNOFF (INCHES)	6.92		3.94		10.10	
10 PERCENT EXCEEDS	26		19		32	
50 PERCENT EXCEEDS	1.8		2.5		3.9	
90 PERCENT EXCEEDS	.54		.29		.75	

e Estimated
[a] From rating extended above 1,270 ft^3/s.

07005000 MALINE CREEK AT BELLEFONTAINE NEIGHBORS, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1996 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
DEC												
18...	1710	ENVIRONMENTAL	2.2	11.2	78.3	7.5	5180	.1	473	140	30.0	158
FEB												
09...	1054	ENVIRONMENTAL	173	8.8	80.2	7.6	1110	10.3	248	68.0	19.0	160
27...	1555	ENVIRONMENTAL	9.0	10.7	86.8	7.3	1090	6.3	261	73.0	19.0	143
APR												
10...	2331	ENVIRONMENTAL	351	5.0	44.3	7.2	790	9.8	157	43.0	12.0	101
MAY												
29...	1540	ENVIRONMENTAL	.34	14.4	171	8.8	564	23.0	148	41.0	11.0	122
AUG												
27...	1345	ENVIRONMENTAL	.56	4.6	60.3	7.4	359	28.6	106	32.0	6.30	79

DATE	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2) (00405)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)
DEC													
18...	158	193	0	2900	19	1.0	.38	.7	.04	.070	.150	8.8	97
FEB													
09...	162	198	0	--	2100	3.3	.09	.5	<.01	.080	1.50	8.5	23
27...	147	180	0	190	43	.96	.13	1.2	.03	.120	.200	12.9	17
APR													
10...	105	128	0	--	3700	9.1	.30	.3	.04	.070	3.10	11.5	130
MAY													
29...	121	118	14	--	18	1.3	.02	<.02	<.01	<.010	.120	.3	52
AUG													
27...	80	98	0	--	37	.70	.06	.5	.03	.100	.160	6.2	25

DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)
DEC													
18...	K1300	K600	K1300	19	<1.0	<1.00	<1.00	3.0	3.0	120	<1.00	1200	<.10
FEB													
09...	K1200	K4000	K9200	370	1.8	<1.00	<1.00	3.0	2.5	450	2.00	950	<.10
27...	K210	240	K680	75	1.1	<1.00	<1.00	2.0	2.4	100	<1.00	290	<.10
APR													
10...	280000	K600000	2900000	380	2.7	<1.00	<1.00	1.0	2.9	560	2.00	1100	.20
MAY													
29...	3000	2800	K150	19	2.4	<1.00	<1.00	<1.0	1.8	30	<1.00	150	<.10
AUG													
27...	760	K1500	170	130	2.8	<1.00	<1.00	<1.0	2.3	200	<1.00	175	<.10

DATE	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	2,4,6-TRI-CHLORO-PHENOL TOTAL (µg/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (µg/L) (34601)	2,4,-DI-NITRO-PHENOL TOTAL (µg/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (µg/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (µg/L) (34626)
DEC													
18...	2.50	<1.0	<1.0	180	--	--	--	--	--	--	--	--	--
FEB													
09...	3.20	<1.0	<1.0	81	4	M	<1	<1	<2	<2	<20	<1	<1
27...	1.90	1.2	<1.0	15	--	--	--	--	--	--	--	--	--
APR													
10...	5.20	<1.0	<1.0	210	3	M	<1	<1	<2	M	<20	<1	<1
MAY													
29...	3.40	<1.0	<1.0	21	--	--	--	--	--	--	--	--	--
AUG													
27...	1.90	<1.0	<1.0	48	--	--	--	--	--	--	--	--	--

07005000 MALINE CREEK AT BELLEFONTAINE NEIGHBORS, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	2-CHLORONAPHTHALENE TOTAL (µg/L) (34581)	2-CHLOROPHENOL TOTAL (µg/L) (34586)	2-NITROPHENOL TOTAL (µg/L) (34591)	3,3'-DICHLOROBENZIDINE TOTAL (µg/L) (34631)	4,6-DINITRO-ORTHO-CRESOL TOTAL (µg/L) (34657)	4-BROMOPHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4-CHLOROPHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4-NITROPHENOL TOTAL (µg/L) (34646)	ACENAPHTHENE TOTAL (µg/L) (34205)	ACENAPHTHYLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRACENE TOTAL (µg/L) (34220)	BENZENE NITROWATER UNFLTRD RECOVER (µg/L) (34447)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<1	<1	<1	<1	<2	<1	<1	<1	M	M	<.013	M	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
10...	<1	<1	<1	<1	<2	<1	<1	4	M	M	<.013	M	<2
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZIDINE TOTAL (µg/L) (39120)	BENZO-A-PYRENE TOTAL (µg/L) (34247)	BENZO B FLUORANTHENE TOTAL (µg/L) (34230)	BENZO K FLUORANTHENE TOTAL (µg/L) (34242)	BENZ(A)ANTHRACENE WATER UNFLTRD REC (µg/L) (34526)	BENZO-[GHI]-PERYLENE TOTAL (µg/L) (34521)	BIS(2-CHLOROETHOXY)METHANE TOTAL (µg/L) (34278)	BIS(2-CHLOROETHYL)ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLOROISOPROPYL)ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL)PHTHALATE TOTAL (µg/L) (39100)	CARBOPHENOTHION WATER UNFLTRD (µg/L) (39786)	CHLORDANE, TECHNICAL TOTAL (µg/L) (39350)	CHLORPYRIFOS TOTAL RECOVER (µg/L) (38932)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<40	E2	4	E1	E2	3	<1	<1	<1	<9	<.02	<.1	<.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
10...	<40	4	5	E2	E2	E3	<1	<1	<1	M	<.02	E.1	.03
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CHRYSENE TOTAL (µg/L) (34320)	CYCLOPENTADIENE HEXACHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DIAZINON, TOTAL (µg/L) (39570)	DIELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHALATE TOTAL (µg/L) (34336)	DIMETHYL PHTHALATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHALATE TOTAL (µg/L) (39110)	DI-N-OCTYL PHTHALATE TOTAL (µg/L) (34596)	DISULFOTON UNFILT RECOVER (µg/L) (39011)	ENDOSULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	3	<1	<.02	.06	<.006	<2	<2	<2	<1	<.03	<.015	<.014	<.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
10...	4	<1	<.02	.22	<.006	M	M	M	M	<.07	<.015	<.014	<.01
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	FLUORANTHENE TOTAL (µg/L) (34376)	FLUORENE TOTAL (µg/L) (34381)	FONOFOS (DYFONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTACHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTACHLOR, TOTAL (µg/L) (39410)	HEXACHLOROBENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (µg/L) (34403)	ISOPHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALATHION, TOTAL (µg/L) (39530)	METHOXYCHLOR, TOTAL (µg/L) (39480)	METHYL PARATHION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	6	M	<.01	<.009	<.014	<1	E3	M	<.006	<.03	<.01	<.01	<.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
10...	7	M	<.01	<.009	<.014	<1	E3	M	<.006	<.03	<.01	<.01	<.01
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

07005000 MALINE CREEK AT BELLEFONTAINE NEIGHBORS, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	N-BUTYL BENZYL PHTHAL-ATE TOTAL (µg/L) (34292)	N-NITRO-SODI-METHYL-AMINE TOTAL (µg/L) (34438)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (µg/L) (34428)	N-NITRO-SODI-PHENYL-AMINE TOTAL (µg/L) (34433)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARA-CHLORO-META CRESOL TOTAL (µg/L) (34452)	PARA-THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PHENAN-THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	3	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
10...	M	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	3	M
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX-APHENE, TOTAL (µg/L) (39400)	1,1,1-TRI-CHLORO-ETHANE TOTAL (µg/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (µg/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (µg/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<.02	5	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
10...	<.02	6	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZENE TOTAL (µg/L) (34030)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (µg/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (µg/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µg/L) (50004)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<.10	<.20	<.20	<.10	<.2	<.10	.11	<.10	<.2	<.2	<1.0	<.2	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
10...	<.10	<.20	<.20	<.10	<.2	<.10	.11	<.10	<.2	<.2	<1.0	<.2	<.10
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

07005000 MALINE CREEK AT BELLEFONTAINE NEIGHBORS, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<.2	<.10	<.10	<1.3	.5	<.2	E.18	E.2	.41	<.10	<.1	<.10	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
10...	<.2	<.10	<.10	<1.3	.7	<.2	<.20	E.1	<.10	<.10	<.1	<.10	<.10
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC		
18...	--	--
FEB		
09...	<.20	<.2
27...	--	--
APR		
10...	<.20	<.2
MAY		
29...	--	--
AUG		
27...	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO

LOCATION.--Lat 38°37'44", long 90°10'47", Hydrologic Unit 07140101, on downstream side of west pier of Eads Bridge at St. Louis, 15.0 mi downstream from Missouri River, 19.2 mi upstream from Meramec River, and at mile 180.0 above the Ohio River.

DRAINAGE AREA.--697,000 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--
DISCHARGE: January 1861 to current year. Monthly discharge only for some periods, published in WSP 1311.
GAGE HEIGHT: March 1933 to current year in reports of the U.S. Geological Survey. Since January 1861 in reports of Mississippi River Commission. Since January 1890 in reports of the National Weather Service.

REVISED RECORDS.--WDR MO-76-1: Drainage area, WDR MO-98-1: Extreme outside period of record.

GAGE.--Water-stage recorder. Datum of gage is 379.94 ft above sea level. Prior to May 5, 1934, nonrecording gage 0.4 mi downstream; May 5, 1934, to Dec. 9, 1952, water-stage recorder at site 20 ft downstream at present datum.

REMARKS.--Water-discharge records good. Natural flow of stream affected by many reservoirs and navigation dams in upper Mississippi River Basin and by many reservoirs and diversions for irrigation in Missouri River Basin. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 27, 1844, reached a stage of 41.32 ft, from floodmarks, discharge, 1,000,000 ft^3/s, computed by U.S. Army Corps of Engineers. Flood in April 1785 may have reached a stage of 42.0 ft. Minimum flow, 18,000 ft^3/s, Dec. 23, 1863.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103000	91500	102000	70700	222000	448000	267000	422000	344000	364000	184000	132000
2	99500	82300	106000	72500	205000	423000	257000	424000	358000	350000	201000	117000
3	90700	81300	102000	70700	182000	380000	250000	423000	395000	339000	190000	101000
4	88700	84400	106000	71100	181000	332000	252000	421000	431000	334000	171000	99100
5	116000	88100	105000	74700	166000	296000	280000	417000	477000	329000	166000	102000
6	118000	97500	95400	73900	156000	283000	305000	415000	517000	333000	168000	98400
7	111000	116000	85800	73000	151000	274000	310000	420000	546000	339000	162000	96400
8	112000	107000	75000	74600	143000	262000	301000	430000	583000	330000	164000	96100
9	98200	114000	70700	73800	154000	249000	295000	450000	608000	311000	156000	107000
10	88000	122000	67900	72100	227000	234000	295000	472000	609000	292000	159000	97200
11	84900	136000	69500	73700	288000	223000	310000	470000	605000	270000	151000	99300
12	87400	143000	73600	71600	334000	215000	345000	462000	580000	256000	141000	109000
13	87200	153000	61500	70300	322000	208000	372000	459000	541000	242000	131000	118000
14	89000	142000	60700	79300	297000	197000	373000	470000	505000	225000	119000	117000
15	90000	130000	61800	82100	274000	214000	371000	480000	473000	222000	93600	118000
16	104000	131000	63900	96700	256000	257000	377000	482000	446000	215000	89200	118000
17	109000	132000	72400	90400	244000	327000	383000	487000	433000	201000	86100	113000
18	107000	128000	73700	91100	230000	396000	386000	495000	446000	189000	97700	98600
19	99300	131000	73000	96900	217000	422000	388000	504000	458000	187000	98400	102000
20	89700	136000	69900	98500	209000	415000	390000	510000	447000	181000	98100	98200
21	82400	123000	68700	101000	201000	397000	392000	516000	423000	182000	95300	137000
22	78600	123000	72100	106000	191000	377000	397000	506000	412000	181000	98800	181000
23	82400	114000	77000	100000	180000	356000	399000	493000	440000	171000	98700	181000
24	94400	106000	79900	101000	196000	343000	403000	478000	463000	178000	139000	166000
25	93400	101000	76000	95300	300000	338000	411000	459000	467000	181000	144000	153000
26	89200	105000	72800	89400	385000	336000	415000	440000	456000	175000	126000	141000
27	86200	107000	72000	89200	430000	337000	415000	413000	443000	174000	114000	134000
28	89300	102000	68800	83000	456000	329000	413000	387000	419000	189000	115000	139000
29	90400	105000	72900	85000	---	316000	413000	363000	395000	204000	120000	141000
30	95900	103000	72400	154000	---	296000	416000	345000	378000	191000	131000	134000
31	99000	---	70300	211000	---	281000	---	341000	---	180000	136000	---
MEAN	95280	114500	77380	90080	242800	314900	352700	446900	469900	242400	133700	121500
MAX	118000	153000	106000	211000	456000	448000	416000	516000	609000	364000	201000	181000
MIN	78600	81300	60700	70300	143000	197000	250000	341000	344000	171000	86100	96100
IN.	.16	.18	.13	.15	.36	.52	.56	.74	.75	.40	.22	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2001, BY WATER YEAR (WY)

MEAN	139400	144300	123900	115800	145900	231400	307200	293200	272300	223600	145800	137400
MAX	575300	359200	452400	307800	301400	521800	692500	588700	600600	808800	700200	531800
(WY)	1987	1986	1983	1973	1974	1973	1973	1995	1947	1993	1993	1993
MIN	44170	47920	42130	31340	41900	74550	110100	79500	70260	67130	43510	54640
(WY)	1940	1940	1938	1940	1940	1964	1934	1934	1934	1936	1936	1939

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1933 - 2001	
ANNUAL MEAN	134200		224600		190100	
HIGHEST ANNUAL MEAN					429700	1993
LOWEST ANNUAL MEAN					67700	1934
HIGHEST DAILY MEAN	385000	Jun 29	609000	Jun 10	1050000	Aug 1 1993
LOWEST DAILY MEAN	60700	Dec 14	60700	Dec 14	27800	Dec 12 1937
ANNUAL SEVEN-DAY MINIMUM	65600	Dec 10	65600	Dec 10	28200	Jan 18 1940
MAXIMUM PEAK FLOW	---		612000	Jun 10	1080000	Aug 1 1993
MAXIMUM PEAK STAGE	---		34.79	Jun 10	49.58	Aug 1 1993
INSTANTANEOUS LOW FLOW	---		60000	Dec 14	27800	Dec 12 1937
ANNUAL RUNOFF (INCHES)	2.62		4.38		3.71	
10 PERCENT EXCEEDS	240000		446000		371000	
50 PERCENT EXCEEDS	114000		171000		153000	
90 PERCENT EXCEEDS	77400		78000		69200	

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
WATER TEMPERATURES: October 1951 to current year.
SEDIMENT RECORDS: April 1948 to current year.

REMARKS.--Sediment discharge computed from transport curve. Sediment records poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 6,720 mg/L, Feb. 24, 1985; minimum daily mean, 19 mg/L, Jan. 21 and 22, 1967.
SEDIMENT LOADS: Maximum daily, 9,830,000 tons, Feb. 24, 1985; minimum daily, 2,800 tons, Jan. 21, 1967.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,260 mg/L, June 7; minimum daily mean 76 mg/L, Jan. 1-4.
SEDIMENT LOADS: Maximum daily, 1,930,000 tons, June 8; minimum daily, 13,800 tons, Jan. 14.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
		OCTOBER			NOVEMBER			DECEMBER	
1	103000	117	32500	91500	104	25800	102000	99	27200
2	99500	120	32300	82300	95	21100	106000	99	28600
3	90700	118	29000	81300	93	20500	102000	100	27300
4	88700	122	29300	84400	91	20800	106000	100	28600
5	116000	157	49300	88100	92	22000	105000	100	28200
6	118000	150	47900	97500	111	29400	95400	99	25500
7	111000	134	40000	116000	128	40000	85800	98	22700
8	112000	137	41300	107000	110	31900	75000	97	19600
9	98200	118	31200	114000	123	38000	70700	94	18000
10	88000	105	25100	122000	141	46700	67900	92	16800
11	84900	100	23000	136000	178	65200	69500	89	16700
12	87400	98	23100	143000	188	72700	73600	87	17400
13	87200	97	22800	153000	198	82100	61500	86	14300
14	89000	96	23000	142000	178	68500	60700	84	13800
15	90000	105	25700	130000	157	55100	61800	83	13900
16	104000	122	34100	131000	148	52300	63900	84	14500
17	109000	136	40400	132000	140	49900	72400	88	17100
18	107000	137	39400	128000	139	48000	73700	91	18100
19	99300	122	32800	131000	140	49400	73000	90	17700
20	89700	104	25200	136000	139	50800	69900	88	16500
21	82400	98	21800	123000	131	43600	68700	85	15800
22	78600	96	20300	123000	123	40800	72100	86	16700
23	82400	98	21800	114000	115	35300	77000	89	18400
24	94400	108	27700	106000	107	30600	79900	91	19700
25	93400	110	27800	101000	103	28000	76000	89	18300
26	89200	106	25500	105000	102	28900	72800	86	17000
27	86200	102	23800	107000	101	29200	72000	83	16200
28	89300	101	24300	102000	100	27700	68800	81	15100
29	90400	101	24600	105000	100	28200	72900	80	15700
30	95900	105	27200	103000	99	27500	72400	79	15400
31	99000	109	29200	---	---	---	70300	77	14700

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
		JANUARY			FEBRUARY			MARCH	
1	70700	76	14500	222000	416	249000	448000	857	1040000
2	72500	76	14900	205000	393	218000	423000	819	937000
3	70700	76	14500	182000	353	173000	380000	734	754000
4	71100	76	14600	181000	308	151000	332000	638	574000
5	74700	77	15500	166000	263	118000	296000	553	442000
6	73900	78	15500	156000	219	92300	283000	512	391000
7	73000	79	15500	151000	174	71000	274000	488	361000
8	74600	80	16000	143000	151	58000	262000	465	329000
9	73800	80	16000	154000	182	77000	249000	441	296000
10	72100	80	15500	227000	375	233000	234000	417	264000
11	73700	79	15700	288000	591	463000	223000	405	244000
12	71600	78	15000	334000	740	667000	215000	402	234000
13	70300	79	15000	322000	787	685000	208000	400	224000
14	79300	86	18500	297000	752	604000	197000	400	212000
15	82100	96	21200	274000	716	530000	214000	419	242000
16	96700	109	28400	256000	677	469000	257000	499	348000
17	90400	109	26500	244000	637	420000	327000	639	566000
18	91100	109	26800	230000	597	371000	396000	762	817000
19	96900	116	30300	217000	557	327000	422000	845	962000
20	98500	123	32600	209000	517	292000	415000	832	932000
21	101000	129	35300	201000	477	259000	397000	794	852000
22	106000	132	37900	191000	437	226000	377000	756	769000
23	100000	128	34600	180000	403	196000	356000	721	694000
24	101000	123	33600	196000	421	224000	343000	705	653000
25	95300	118	30400	300000	591	485000	338000	699	639000
26	89400	113	27300	385000	729	760000	336000	696	632000
27	89200	108	26100	430000	822	956000	337000	684	622000
28	83000	103	23200	456000	884	1090000	329000	655	582000
29	85000	110	25400	---	---	---	316000	616	525000
30	154000	254	110000	---	---	---	296000	575	460000
31	211000	375	214000	---	---	---	281000	543	411000
		APRIL			MAY			JUNE	
1	267000	511	369000	422000	328	374000	344000	455	423000
2	257000	480	333000	424000	300	343000	358000	591	572000
3	250000	459	310000	423000	302	345000	395000	728	778000
4	252000	471	321000	421000	312	354000	431000	865	1010000
5	280000	491	372000	417000	322	362000	477000	1000	1290000
6	305000	549	452000	415000	332	371000	517000	1140	1590000
7	310000	556	466000	420000	342	388000	546000	1260	1860000
8	301000	549	446000	430000	365	424000	583000	1230	1930000
9	295000	542	432000	450000	447	544000	608000	1150	1890000
10	295000	546	435000	472000	523	667000	609000	1080	1770000
11	310000	619	519000	470000	512	650000	605000	1000	1640000
12	345000	700	652000	462000	483	603000	580000	925	1450000
13	372000	715	719000	459000	456	566000	541000	834	1220000
14	373000	706	711000	470000	447	567000	505000	591	807000
15	371000	697	698000	480000	458	594000	473000	464	594000
16	377000	688	701000	482000	472	615000	446000	444	535000
17	383000	678	701000	487000	487	641000	433000	477	558000
18	386000	659	686000	495000	501	670000	446000	542	653000
19	388000	637	668000	504000	516	703000	458000	531	656000
20	390000	615	648000	510000	530	730000	447000	506	611000
21	392000	593	628000	516000	544	758000	423000	488	557000
22	397000	571	612000	506000	535	730000	412000	600	667000
23	399000	549	592000	493000	517	688000	440000	746	888000
24	403000	528	575000	478000	500	646000	463000	824	1030000
25	411000	506	561000	459000	483	598000	467000	823	1040000
26	415000	483	541000	440000	465	553000	456000	770	950000
27	415000	453	508000	413000	448	499000	443000	639	765000
28	413000	422	471000	387000	431	450000	419000	524	594000
29	413000	391	436000	363000	415	406000	395000	471	503000
30	416000	360	404000	345000	407	380000	378000	419	428000
31	---	---	---	341000	401	370000	---	---	---

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
		JULY			AUGUST			SEPTEMBER	
1	364000	368	361000	184000	288	144000	132000	180	63900
2	350000	316	298000	201000	340	185000	117000	166	52200
3	339000	287	263000	190000	294	151000	101000	153	41600
4	334000	280	252000	171000	248	115000	99100	144	38500
5	329000	274	244000	166000	224	100000	102000	137	37800
6	333000	284	255000	168000	210	95200	98400	133	35200
7	339000	299	274000	162000	199	86800	96400	128	33400
8	330000	304	271000	164000	195	86400	96100	124	32200
9	311000	291	244000	156000	192	80900	107000	120	34800
10	292000	277	218000	159000	188	80700	97200	116	30500
11	270000	263	192000	151000	183	74300	99300	120	32100
12	256000	250	173000	141000	178	67600	109000	132	38700
13	242000	241	157000	131000	172	60800	118000	155	49500
14	225000	234	142000	119000	163	52600	117000	161	51100
15	222000	228	137000	93600	147	37300	118000	154	48900
16	215000	222	129000	89200	143	34300	118000	146	46400
17	201000	215	117000	86100	144	33400	113000	137	41800
18	189000	208	106000	97700	153	40400	98600	127	33900
19	187000	201	102000	98400	146	38900	102000	122	33500
20	181000	194	94700	98100	144	38000	98200	121	32000
21	182000	187	91700	95300	142	36500	137000	159	60200
22	181000	180	87800	98800	154	41200	181000	268	131000
23	171000	173	79700	98700	155	41400	181000	275	134000
24	178000	166	79700	139000	207	78200	166000	246	110000
25	181000	160	78300	144000	216	84000	153000	221	91400
26	175000	157	74500	126000	178	60400	141000	197	75300
27	174000	166	78000	114000	158	48900	134000	183	66000
28	189000	265	136000	115000	151	46800	139000	187	69900
29	204000	312	172000	120000	164	53200	141000	188	71600
30	191000	282	146000	131000	191	67300	134000	174	63000
31	180000	256	124000	136000	194	71100	---	---	---

07010022 RIVER DES PERES NEAR UNIVERSITY CITY, MO

LOCATION.--Lat 38°40'07", long 90°19'26", St. Louis County, Hydrologic Unit 07140101, on top of left downstream abutment of Purdue Ave. bridge, 3.78 mi south of Interstate 70 and 2.01 mi east of Interstate 170.

DRAINAGE AREA.--8.94 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 491.97 ft above sea level.

REMARKS.--Water-discharge records fair except for those below 1 ft^3/s and above 1,400 ft^3/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.25	.68	.97	.84	.36	4.7	1.4	2.3	.00	1.6
2	.00	6.9	2.8	1.7	.41	.68	1.6	.67	.88	.93	.81	.52
3	.00	.31	.78	6.2	.51	.51	62	.28	18	.04	.02	.00
4	2.2	.02	.37	.01	.58	.40	2.4	.34	25	14	.00	.00
5	32	.01	.28	4.2	.77	.33	.80	8.7	1.0	.10	.00	.00
6	.06	34	.22	8.5	.61	.40	.60	1.2	19	.01	.00	.08
7	.01	1.9	.22	4.6	.47	.50	.53	.29	.46	.00	.00	.05
8	.00	.21	.31	.94	.49	.43	.58	.02	.10	.00	.00	109
9	.00	48	.21	.12	52	.45	21	.01	.08	.00	.00	49
10	.00	3.1	.18	.10	2.0	.41	18	.01	.08	.00	1.0	.22
11	.00	.74	15	.10	.53	.40	9.6	.65	.08	.00	.00	.01
12	.00	17	.74	.36	.45	.58	2.0	1.5	.08	.08	.00	.01
13	.00	11	.26	9.4	8.7	.38	.11	1.6	.08	.00	.00	.00
14	.13	.85	.34	21	9.6	.53	.03	1.7	8.5	.00	.00	.00
15	33	.42	3.4	3.3	1.1	95	30	1.6	14	.00	.00	.00
16	68	.32	4.8	1.4	.64	28	.26	6.3	.79	.00	.07	.00
17	4.0	.31	1.3	.98	.33	2.0	.03	35	.59	.00	.00	.00
18	.03	.56	.34	.82	.21	.69	1.4	115	.72	3.1	.00	81
19	.00	.17	.35	.69	.29	.44	.88	19	.80	1.6	.00	1.4
20	.00	.24	.41	.70	.28	.34	.09	9.4	24	.11	.00	.04
21	.00	.23	.43	.42	.17	.29	.02	28	25	.00	.00	2.7
22	2.6	.22	.11	.42	2.4	1.8	.24	3.4	.49	.21	.00	.02
23	.14	.25	15	.48	3.1	.47	5.5	3.6	.03	4.4	5.5	.01
24	.01	.47	6.7	.50	138	1.5	.67	4.5	.01	.24	19	.00
25	.00	36	7.4	.49	13	.81	.24	13	.17	.00	2.8	.00
26	.00	2.2	54	3.2	1.6	.30	.32	3.8	.94	.00	.17	.00
27	.00	.60	.40	1.3	2.4	.26	.16	.13	.13	.00	.01	.00
28	.00	.36	.08	.80	1.7	.28	.15	.10	.35	.00	.15	.00
29	.00	.26	.08	51	---	.35	.12	5.6	.01	.00	.00	.00
30	.00	.26	.07	13	---	.37	14	35	21	.00	.00	.00
31	.00	---	.07	2.6	---	.44	---	132	---	.00	.00	---
MEAN	4.59	5.56	3.77	4.52	8.69	4.52	5.79	14.1	5.46	.87	.95	8.19
MAX	68	48	54	51	138	95	62	132	25	14	19	109
MIN	.00	.00	.07	.01	.17	.26	.02	.01	.01	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	3.86	4.67	3.35	9.13	14.5	12.1	8.72	13.2	24.4	8.75	5.08	4.67
MAX	4.59	7.42	4.81	20.9	27.7	33.4	16.1	26.5	34.9	20.1	8.29	8.19
(WY)	2001	1999	2000	1999	1999	1998	1998	2000	2000	1998	2000	2001
MIN	3.11	1.17	1.23	2.36	8.69	3.61	3.81	4.20	5.46	.87	.95	1.29
(WY)	1998	2000	1999	2000	2001	2000	2000	1999	2001	2001	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	9.70		5.55		9.32	
HIGHEST ANNUAL MEAN					12.6	1998
LOWEST ANNUAL MEAN					5.55	2001
HIGHEST DAILY MEAN	711	Jun 24	138	Feb 24	711	Jun 24 2000
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Each Year
ANNUAL SEVEN-DAY MINIMUM	.00	At Times	.00	At Times	.00	At Times
MAXIMUM PEAK FLOW	---		3120[a]	Sep 8	5680[a]	Jun 12 1999
MAXIMUM PEAK STAGE	---		11.98	Sep 8	15.74	Jun 12 1999
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Each Year
10 PERCENT EXCEEDS	15		14		18	
50 PERCENT EXCEEDS	.15		.38		.22	
90 PERCENT EXCEEDS	.00		.00		.00	

[a] From rating extended above 653 ft^3/s.

07010022 RIVER DES PERES NEAR UNIVERSITY CITY, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
DEC												
19...	0920	ENVIRONMENTAL	.35	9.9	69	7.3	4410	.1	530	160	31.0	122
FEB												
27...	0820	ENVIRONMENTAL	.81	11.2	88	7.5	101	5.4	310	90.0	20.0	155
27...	0821	BLANK	--	--	--	--	--	--	--	<.02	<.030	--
MAR												
15...	2002	ENVIRONMENTAL	190	9.3	85	7.2	545	10.7	87	26.0	5.30	57
APR												
09...	2332	ENVIRONMENTAL	288	8.1	89	7.6	451	20.5	86	25.0	5.70	62
MAY												
29...	1310	ENVIRONMENTAL	.09	6.1	68	7.6	706	19.5	210	59.0	14.0	127
AUG												
27...	1120	BLANK	--	--	--	--	--	--	--	.06	<.030	--
27...	1130	ENVIRONMENTAL	.01	5.7	74	7.8	887	27.4	140	37.0	12.0	68

DATE	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2) (00405)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)
DEC													
19...	122	149	0	2800	14	1.5	1.00	.7	.05	.050	.140	11	88
FEB													
27...	156	190	0	370	4	.81	.16	1.6	.05	.060	.100	9.9	19
27...	--	--	--	.4	1	.30	<.01	<.02	<.01	<.010	<.020	--	<5
MAR													
15...	60	73	0	--	610	4.2	.35	.2	.02	.060	.980	6.6	130
APR													
09...	61	50	0	--	1000	4.9	.35	.4	.04	.090	.950	3.0	52
MAY													
29...	128	156	0	--	13	1.2	.62	.9	.05	.080	.200	5.9	25
AUG													
27...	--	--	--	--	<1	<.20	<.01	<.02	<.01	<.010	<.020	--	<5
27...	68	83	0	--	3	.80	.28	.8	<.01	.160	.190	2.3	12

DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)
DEC													
19...	1900	K1300	900	10	<1.0	<1.00	<1.00	4.0	2.6	250	<1.00	1300	<.10
FEB													
27...	K1700	4400	420	27	1.3	<1.00	<1.00	<1.0	2.3	90	<1.00	210	<.10
27...	--	--	--	7	<1.0	<1.00	<1.00	<1.0	<1.0	<2	<1.00	<1.0	<.10
MAR													
15...	3500	K6300	K1800	190	1.4	<1.00	<1.00	1.0	5.7	280	2.00	210	.20
APR													
09...	78000	26000	54000	380	1.6	<1.00	<1.00	2.0	6.3	460	3.00	130	<.10
MAY													
29...	1200	23000	2700	26	2.3	<1.00	<1.00	<1.0	2.5	180	<1.00	411	<.10
AUG													
27...	--	--	--	7	<1.0	<1.00	<1.00	<1.0	<1.0	<2	<1.00	<1.0	<.10
27...	LA	LA	K40	10	1.5	<1.00	<1.00	1.2	1.5	100	<1.00	110	<.10

07010022 RIVER DES PERES NEAR UNIVERSITY CITY, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	2,4,6-TRI-CHLORO-PHENOL TOTAL (µg/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (µg/L) (34601)	2,4,- DI-NITRO-PHENOL TOTAL (µg/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (µg/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (µg/L) (34626)
DEC													
19...	3.20	<1.0	<1.0	100	--	--	--	--	--	--	--	--	--
FEB													
27...	2.30	2.0	<1.0	10	--	--	--	--	--	--	--	--	--
27...	<1.00	<1.0	<1.0	4	--	--	--	--	--	--	--	--	--
MAR													
15...	1.60	<1.0	<1.0	27	7	E1	<1	<1	<2	M	M	<1	<1
APR													
09...	3.10	<1.0	<1.0	92	6	<1	<1	<1	<2	E0	<20	<1	<1
MAY													
29...	3.80	1.6	<1.0	80	--	--	--	--	--	--	--	--	--
AUG													
27...	<1.00	<1.0	<1.0	<2	--	--	--	--	--	--	--	--	--
27...	<1.00	1.9	<1.0	85	--	--	--	--	--	--	--	--	--

DATE	2-CHLORO-NAPH-THALENE TOTAL (µg/L) (34581)	2-CHLORO-PHENOL TOTAL (µg/L) (34586)	2-NITRO-PHENOL TOTAL (µg/L) (34591)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (µg/L) (34631)	4,6-DINITRO -ORTHO-CRESOL TOTAL (µg/L) (34657)	4-BROMO-PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4-NITRO-PHENOL TOTAL (µg/L) (34646)	ACE-NAPHTH-ENE TOTAL (µg/L) (34205)	ACE-NAPHTH-YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA-CENE TOTAL (µg/L) (34220)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<1	<1	M	<1	M	<1	<1	3	M	M	<.013	M	<2
APR													
09...	<1	<1	<1	<1	<2	<1	<1	<1	<.9	<1	<.013	<1	<2
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZI-DINE TOTAL (µg/L) (39120)	BENZO-A-PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR-AN-THENE TOTAL (µg/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA-CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO-[GHI]-PERY-LENE TOTAL (µg/L) (34521)	BIS(2-CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2-CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (µg/L) (39100)	CARBO-PHENO-THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<40	E2	E2	M	E1	E2	<1	<1	<1	M	<.02	.2	.09
APR													
09...	<40	<1	<2	<2	<1	<1	<1	<1	<1	<9	<.02	E.1	.12
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

07010022 RIVER DES PERES NEAR UNIVERSITY CITY, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CHRY-SENE TOTAL (µg/L) (34320)	CYCLOPENTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)	DI-N-OCTYL PHTHAL-ATE TOTAL (µg/L) (34596)	DISUL-FOTON UNFILT RECOVER (µg/L) (39011)	ENDO-SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	E2	<1	<.02	.09	.012	M	M	M	M	<.13	<.015	<.014	<.01
APR													
09...	<1	<1	<.02	.21	<.006	<2	<2	<2	<1	<.07	<.015	<.014	<.01
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	FLUOR-ANTHENE TOTAL (µg/L) (34376)	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (µg/L) (34403)	ISO-PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA-THION, TOTAL (µg/L) (39530)	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	4	M	<.01	<.009	<.014	<1	3	M	<.006	E.01	<.01	<.01	<.01
APR													
09...	<1	<1	<.01	<.009	<.014	<1	<2	<1	<.006	E.03	<.01	<.01	<.01
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	N-BUTYL BENZYL PHTHAL-ATE TOTAL (µg/L) (34292)	N-NITRO-SODI-METHYL-AMINE TOTAL (µg/L) (34438)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (µg/L) (34428)	N-NITRO-SODI-PHENYL-AMINE TOTAL (µg/L) (34433)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARA-CHLORO-META CRESOL TOTAL (µg/L) (34452)	PARA-THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PHENAN-THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	E2	M
APR													
09...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	<2	<1	<2
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

07010022 RIVER DES PERES NEAR UNIVERSITY CITY, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX-APHENE, TOTAL (µg/L) (39400)	1,1,1-TRI-CHLORO-ETHANE TOTAL (µg/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (µg/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (µg/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.02	3	<1	.17	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
APR													
09...	<.02	<1	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZENE TOTAL (µg/L) (34030)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (µg/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (µg/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µg/L) (50004)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.10	<.20	<.20	<.10	<.2	.22	.13	<.10	<.2	<.2	<1.0	<.2	<.10
APR													
09...	<.10	<.20	<.20	<.10	<.2	<.10	.11	<.10	<.2	<.2	<1.0	<.2	<.10
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

07010022 RIVER DES PERES NEAR UNIVERSITY CITY, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.2	<.10	<.10	<1.3	<.2	<.2	<.20	E.1	<.10	<.10	.2	<.10	<.10
APR													
09...	<.2	<.10	<.10	<1.3	<.2	<.2	.23	<1.2	.13	<.10	<.1	.69	<.10
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC		
19...	--	--
FEB		
27...	--	--
27...	--	--
MAR		
15...	<.20	<.2
APR		
09...	<.20	<.2
MAY		
29...	--	--
AUG		
27...	--	--
27...	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.
LA--Laboratory Accident.

07010030 RIVER DES PERES TRIBUTARY AT PAGEDALE, MO

LOCATION.--Lat 38°40'37", long 90°18'53", St. Louis County, Hydrologic Unit 07140101, on right culvert wall next to sidewalk handrail at Page Ave., 3.04 mi south of Interstate 70, and 2.37 mi east of Interstate 170.

DRAINAGE AREA.--2.01 mi^2.

PERIOD OF RECORD.--June 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 504.56 ft above sea level.

REMARKS.--Record poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	.11	e.16	e.40	.49	.34	.14	.27	.30	.32	.00	.00
2	.09	.93	e1.2	.59	.35	.33	.35	.13	.25	.24	.62	.00
3	.09	.15	e.30	.33	.31	.29	6.9	.13	1.5	.05	.22	.00
4	.27	.11	e.22	.34	.30	.25	.51	.10	2.5	1.1	.01	.00
5	4.2	.10	e.20	.69	.29	.24	.17	.38	.31	.18	.01	.00
6	.11	4.5	e.18	.97	.29	.22	.16	.14	1.6	.04	.01	.00
7	.09	.41	e.17	.69	.29	.21	.18	.08	.21	.02	.01	.00
8	.09	.28	e.32	.38	.29	.18	.15	.06	.16	.02	.01	15
9	.09	4.2	e.22	.25	6.4	.17	3.6	.08	.13	.02	.01	5.7
10	.09	.41	e.16	.28	.48	.14	2.2	.09	.11	.02	.70	.05
11	.10	.18	e2.0	.32	.31	.13	1.2	.08	.09	.02	.01	.00
12	.10	1.8	e.44	.42	.29	.17	.52	.06	.07	.39	.01	.00
13	.10	1.3	e.36	1.6	.99	.27	.30	.04	.06	.03	.01	.00
14	.14	.26	e.60	1.9	1.1	.49	.29	.13	.12	.01	.01	.00
15	2.6	.19	e1.2	.63	.41	13	3.5	.09	.31	.01	.00	.00
16	8.2	.21	e1.4	.42	.34	4.1	.31	.03	.05	.01	.22	.00
17	.92	.22	e.40	.34	.25	.56	.27	1.1	.03	.02	.00	.00
18	.21	.16	e.22	.31	.21	.36	.17	5.1	.02	1.9	.00	12
19	.14	.16	e.20	.29	.24	.31	.19	.66	.02	1.3	.00	.20
20	.12	.22	e.24	.25	.27	.24	.18	.59	1.5	.38	.00	.03
21	.11	.24	e.26	.21	.22	.18	.18	1.7	2.8	.04	.00	.18
22	.41	.21	e.10	.22	.38	.28	.18	.25	.18	.42	.00	.00
23	.15	.22	e1.0	.21	.53	.20	.45	.28	.07	2.3	.29	.00
24	.11	e.36	e.70	.21	14	.21	.19	.33	.04	.60	1.6	.00
25	.10	e4.0	e.80	.20	2.0	.09	.16	.87	.03	.04	.09	.00
26	.10	e.60	e1.6	.50	.63	.08	.16	.26	.02	.03	.01	.00
27	.11	.29	e.32	.25	.63	.10	.16	.12	.02	.05	.00	.00
28	.10	.26	e.12	.24	.50	.12	.14	.12	.02	.02	.00	.00
29	.10	e.16	e.11	4.9	---	.14	.12	.37	.02	.02	.00	.00
30	.11	e.18	e.10	1.5	---	.14	.65	4.9	1.0	.01	.00	.00
31	.13	---	e.09	.60	---	.16	---	14	---	.01	.00	---
MEAN	.62	.75	.50	.66	1.17	.76	.79	1.05	.45	.31	.12	1.11
MAX	8.2	4.5	2.0	4.9	14	13	6.9	14	2.8	2.3	1.6	15
MIN	.09	.10	.09	.20	.21	.08	.12	.03	.02	.01	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	.52	.73	.44	1.69	2.94	2.28	1.44	1.71	3.70	1.77	.99	.72
MAX	.62	1.45	.50	4.50	7.35	6.56	3.06	3.65	5.18	6.51	2.21	1.16
(WY)	2001	1999	2001	1999	1999	1998	1998	2000	2000	1998	1998	1998
MIN	.39	.12	.33	.32	1.17	.37	.48	.51	.45	.25	.12	.14
(WY)	2000	2000	1999	2000	2001	2000	2000	1999	2001	1997	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	1.29		.69		1.59	
HIGHEST ANNUAL MEAN					2.53	1998
LOWEST ANNUAL MEAN					.69	2001
HIGHEST DAILY MEAN	111	Jun 24	15	Sep 8	148	Feb 7 1999
LOWEST DAILY MEAN	.03	Jul 24,26,Aug 4,16	.00	Many Days	.00	Many Days 2001
ANNUAL SEVEN-DAY MINIMUM	.04	Jul 21	.00	Aug 27,Sep 11,22	.00	Aug 27,Sep 11,22 2001
MAXIMUM PEAK FLOW	---		611[a]	Sep 8	2490[a]	Jul 22 1998
MAXIMUM PEAK STAGE	---		6.33	Sep 8	8.84	Jul 22 1998
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Many Days 2001
10 PERCENT EXCEEDS	1.5		1.5		2.0	
50 PERCENT EXCEEDS	.12		.20		.21	
90 PERCENT EXCEEDS	.06		.01		.05	

e Estimated
[a] From rating extended above 48 ft^3/s.

07010035 ENGELHOLM CREEK NEAR WELLSTON, MO

LOCATION.--Lat 38°40'57", long 90°18'10", in NW $^1/_4$ NE $^1/_4$ SE $^1/_4$ sec.3, T.45 N., R.6 E., St. Louis County, Hydrologic Unit 07140101, on right downstream wingwall of Kingsland Ave. bridge, 2.70 mi south of Interstate 70, and 2.78 mi east of Interstate 170.

DRAINAGE AREA.--1.40 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1998 to current year. May 1977 to April 1998 published as Engelholm Creek at Pagedale (07010034).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage unknown.

REMARKS.--Water-discharge records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.10	.15	e.20	.23	.25	.24	.22	.21	.11	.05	.05
2	.15	.35	.23	e.30	.21	.24	.26	.15	.17	.12	.21	.04
3	.16	.13	.16	e.70	.20	.23	4.0	.15	.96	.08	.34	.04
4	.19	.11	.15	e.08	.19	.21	.33	.14	1.9	.38	.06	.04
5	2.2	.12	.15	.29	.19	.19	.26	.31	.43	.14	.06	.04
6	.18	2.6	.14	.34	.18	.19	.25	.16	.71	.08	.06	.05
7	.16	.22	.15	.34	.18	.19	.23	.15	.17	.06	.12	.05
8	.16	.14	.15	.29	.19	.19	.22	.14	.12	.06	.06	.55
9	.15	3.0	.12	.22	3.7	.19	.93	.17	.10	.06	.06	6.6
10	.14	.25	.13	.20	.32	.17	1.9	.11	.09	.06	.35	.07
11	.14	.17	e1.0	.20	.25	.17	.61	.11	.08	.06	.05	.04
12	.13	1.1	e.30	.23	.24	.19	.29	.10	.07	.17	.05	.04
13	.13	.77	e.07	.62	.41	.20	.21	.09	.07	.08	.05	.04
14	.14	.18	e.09	.82	.51	.21	.20	.09	.08	.07	.05	.05
15	1.4	.15	e.60	.29	.27	6.3	1.9	.09	.16	.06	.05	.05
16	5.2	.17	e.70	.23	.24	2.5	.22	.10	.07	.06	.11	.05
17	.57	.18	e.20	.21	.21	.34	.19	.50	.07	.07	.05	.05
18	.15	.17	e.12	.20	.20	.27	.19	2.2	.07	1.4	.05	5.5
19	.12	.19	e.13	.19	.21	.25	.19	.31	.07	1.1	.10	.10
20	.12	.22	e.12	.18	.20	.23	.18	.19	.35	.11	.05	.06
21	.12	.23	e.14	.17	.18	.22	.19	.98	1.1	.07	.05	.13
22	.21	.22	e.08	.17	.23	.25	.22	.14	.11	.64	.05	.06
23	.12	.22	e.90	.17	.26	.23	.25	.15	.08	1.1	.09	.07
24	.12	.26	e.60	.17	7.8	.24	.17	.15	.07	.21	.43	.05
25	.12	2.5	e.64	.16	1.0	.20	.16	.19	.06	.07	.10	.04
26	.11	.22	e1.4	.23	.32	.20	.16	.14	.08	.06	.05	.04
27	.11	.15	e.20	.19	.31	.19	.16	.12	.06	.06	.05	.05
28	.11	.14	e.12	.17	.28	.20	.16	.10	.06	.06	.05	.05
29	.10	.14	e.10	2.3	---	.21	.15	.10	.07	.07	.05	.05
30	.11	.15	e.09	.50	---	.24	.32	1.8	.86	.05	.05	.05
31	.11	---	e.08	.28	---	.24	---	8.0	---	.05	.05	---
MEAN	.42	.49	.30	.34	.67	.49	.49	.56	.28	.22	.097	.47
MAX	5.2	3.0	1.4	2.3	7.8	6.3	4.0	8.0	1.9	1.4	.43	6.6
MIN	.10	.10	.07	.08	.18	.17	.15	.09	.06	.05	.05	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	.52	.70	.49	1.29	1.66	.70	.72	1.08	1.32	1.09	.63	.49
MAX	.69	1.38	.68	3.14	3.29	1.24	1.32	1.91	2.29	2.86	1.40	.86
(WY)	1999	1999	1999	1999	1999	1999	1999	2000	2000	1998	1998	1998
MIN	.42	.22	.30	.34	.67	.38	.36	.56	.28	.22	.097	.21
(WY)	2001	2000	2001	2001	2001	2000	2000	2001	2001	2001	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL MEAN	.75		.40		.80	
HIGHEST ANNUAL MEAN					1.27	1999
LOWEST ANNUAL MEAN					.40	2001
HIGHEST DAILY MEAN	43	Jun 24	8.0	May 31	48	Feb 7 1999
LOWEST DAILY MEAN	.07	Dec 13	.04	Sep 3,5,13,25,26	.04	Sep 3,5,13,25,26 2001
ANNUAL SEVEN-DAY MINIMUM	.11	Oct 26	.04	Aug 30	.04	Aug 30 2001
MAXIMUM PEAK FLOW	---		130[a]	Sep 9	456[a]	Jul 22 1998
MAXIMUM PEAK STAGE	---		4.52	Sep 9	8.88	Jul 22 1998
INSTANTANEOUS LOW FLOW	---		.03	Sep 24	.03	Sep 24 2001
10 PERCENT EXCEEDS	.87		.70		1.6	
50 PERCENT EXCEEDS	.19		.17		.25	
90 PERCENT EXCEEDS	.12		.05		.11	

e Estimated
a From rating extended above 52 ft^3/s.

07010035 ENGELHOLM CREEK NEAR WELLSTON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1997 to current year.

REMARKS.--Published as Engelholm Creek at Pagedale (07010034) October 1997 to September 1998.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
DEC												
19...	0815	ENVIRONMENTAL	e.13	11.5	79.6	8.1	2130	.3	415	110	34.0	89
FEB												
24...	1914	ENVIRONMENTAL	27	10.3	92.9	7.7	481	10.3	90.9	27.0	5.70	89
27...	1000	ENVIRONMENTAL	.42	13.0	103	7.4	1160	5.3	281	78.0	21.0	145
APR												
03...	0115	ENVIRONMENTAL	22	9.1	82.0	7.2	452	10.7	110	30.0	8.30	63
MAY												
29...	1415	ENVIRONMENTAL	.10	3.6	41.0	7.6	670	21.3	223	58.0	19.0	139
AUG												
27...	1230	ENVIRONMENTAL	.06	3.7	44.6	7.3	710	24.1	177	43.0	17.0	103

DATE	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2) (00405)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)
DEC													
19...	89	109	0	900	7	1.5	1.40	.9	.07	.130	.210	1.4	32
FEB													
24...	82	100	0	--	880	3.4	.05	.8	.02	.140	1.10	3.7	19
27...	149	182	0	190	13	1.4	.43	1.1	.04	.080	.140	10.7	--
APR													
03...	68	83	0	--	211	1.8	.12	.6	.03	.100	.430	7.9	23
MAY													
29...	139	170	0	--	6	1.8	.85	1.0	.24	.230	.300	6.2	21
AUG													
27...	106	129	0	--	3	1.1	.75	.6	.16	.340	.390	9.1	16

DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)
DEC													
19...	K890	K1300	740	9	1.1	<1.00	<1.00	3.0	2.1	150	<1.00	480	<.10
FEB													
24...	4800	8600	11000	400	1.6	<1.00	<1.00	1.0	7.3	420	7.00	97.0	<.10
27...	2000	6000	820	12	1.0	<1.00	<1.00	2.0	2.2	20	<1.00	270	<.10
APR													
03...	1400	1900	1700	128	1.1	<1.00	<1.00	1.3	5.7	200	2.50	122	<.10
MAY													
29...	3000	2800	1600	11	2.5	<1.00	<1.00	<1.0	1.8	170	<1.00	380	<.10
AUG													
27...	740	1400	730	9	2.0	<1.00	<1.00	<1.0	<1.0	180	<1.00	281	<.10

DATE	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	2,4,6-TRI-CHLORO-PHENOL TOTAL (µg/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (µg/L) (34601)	2,4,-DI-NITRO-PHENOL TOTAL (µg/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (µg/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (µg/L) (34626)
DEC													
19...	1.90	1.3	<1.0	38	--	--	--	--	--	--	--	--	--
FEB													
24...	2.10	<1.0	<1.0	65	4	E1	<1	<1	<2	<2	<20	<1	<1
27...	1.30	1.9	<1.0	15	--	--	--	--	--	--	--	--	--
APR													
03...	1.80	<1.0	<1.0	61	<1	E1	<1	<1	<2	<2	<20	<1	<1
MAY													
29...	3.60	1.4	<1.0	110	--	--	--	--	--	--	--	--	--
AUG													
27...	<1.00	1.2	<1.0	79	--	--	--	--	--	--	--	--	--

07010035 ENGELHOLM CREEK NEAR WELLSTON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	2-CHLORONAPHTHALENE TOTAL (µg/L) (34581)	2-CHLOROPHENOL TOTAL (µg/L) (34586)	2-NITROPHENOL TOTAL (µg/L) (34591)	3,3'-DICHLOROBENZIDINE TOTAL (µg/L) (34631)	4,6-DINITRO-ORTHO-CRESOL TOTAL (µg/L) (34657)	4-BROMOPHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4-CHLOROPHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4-NITROPHENOL TOTAL (µg/L) (34646)	ACENAPHTHENE TOTAL (µg/L) (34205)	ACENAPHTHYLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRACENE TOTAL (µg/L) (34220)	BENZENE NITROWATER UNFLTRD RECOVER (µg/L) (34447)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	<1	<1	M	<1	<2	<1	<1	E2	M	M	<.013	E1	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<1	<1	E.2	<1	E1	<1	<1	2	E.10	E.03	<.013	E.2	<2
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZIDINE TOTAL (µg/L) (39120)	BENZO-A-PYRENE TOTAL (µg/L) (34247)	BENZO B FLUORANTHENE TOTAL (µg/L) (34230)	BENZO K FLUORANTHENE TOTAL (µg/L) (34242)	BENZ(A)ANTHRACENE WATER UNFLTRD REC (µg/L) (34526)	BENZO-[GHI]-PERYLENE TOTAL (µg/L) (34521)	BIS(2-CHLOROETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2-CHLOROETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLOROISOPROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL) PHTHALATE TOTAL (µg/L) (39100)	CARBOPHENOTHION WATER UNFLTRD (µg/L) (39786)	CHLORDANE, TECHNICAL TOTAL (µg/L) (39350)	CHLORPYRIFOS TOTAL RECOVER (µg/L) (38932)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	<40	5	7	E3	4	5	<1	<1	<1	M	<.02	<.1	.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<40	2	2	E1	E1	2	<1	<1	<1	E2	<.02	<.1	<.04
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CHRYSENE TOTAL (µg/L) (34320)	CYCLOPENTADIENE HEXACHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DIAZINON, TOTAL (µg/L) (39570)	DIELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHALATE TOTAL (µg/L) (34336)	DIMETHYL PHTHALATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHALATE TOTAL (µg/L) (39110)	DI-N-OCTYL PHTHALATE TOTAL (µg/L) (34596)	DISULFOTON UNFILT RECOVER (µg/L) (39011)	ENDOSULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	7	<1	<.04	<.04	<.006	<2	<2	<2	<1	--	<.015	<.014	<.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	2	<1	<.04	E.02	<.006	E1	E.2	E.3	1	<.07	<.015	<.014	<.01
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	FLUORANTHENE TOTAL (µg/L) (34376)	FLUORENE TOTAL (µg/L) (34381)	FONOFOS (DYFONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTACHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTACHLOR, TOTAL (µg/L) (39410)	HEXACHLOROBENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (µg/L) (34403)	ISOPHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALATHION, TOTAL (µg/L) (39530)	METHOXYCHLOR, TOTAL (µg/L) (39480)	METHYL PARATHION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	13	M	<.01	<.009	<.014	<1	6	M	<.006	E.07	<.01	<.01	<.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	3	E.1	<.01	<.009	<.014	<1	2	E.3	<.006	E.04	<.01	<.01	<.01
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

07010035 ENGELHOLM CREEK NEAR WELLSTON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	N-BUTYL BENZYL PHTHAL-ATE TOTAL (µg/L) (34292)	N-NITRO-SODI-METHYL-AMINE TOTAL (µg/L) (34438)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (µg/L) (34428)	N-NITRO-SODI-PHENYL-AMINE TOTAL (µg/L) (34433)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARA-CHLORO-META CRESOL TOTAL (µg/L) (34452)	PARA-THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PHENAN-THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	E2	9	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	E.7	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	E1	2	E.4
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX-APHENE, TOTAL (µg/L) (39400)	1,1,1-TRI-CHLORO-ETHANE TOTAL (µg/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (µg/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (µg/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	<.10	11	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<.04	3	<1	<.10	<.10	<.10	<.2	<.10	<.10	E.01	E.07	E.03	<.10
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZENE TOTAL (µg/L) (34030)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (µg/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (µg/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µg/L) (50004)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	<.10	<.20	<.20	<.10	<.2	.15	<.10	.14	<.2	<.2	<1.0	<.2	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<.10	<.20	<.20	<.10	<.2	.14	<.10	<.10	<.2	<.2	<1.0	<.2	<.10
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

07010035 ENGELHOLM CREEK NEAR WELLSTON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	<.2	<.10	<.10	<1.3	.3	<.2	<.20	E.5	<.10	<.10	<.1	<.10	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	<.2	<.10	<.10	<1.3	.3	<.2	<.20	E.1	<.10	<.10	<.1	<.10	<.10
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC		
19...	--	--
FEB		
24...	<.20	<.2
27...	--	--
APR		
03...	<.20	<.2
MAY		
29...	--	--
AUG		
27...	--	--

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07010086 DEER CREEK AT MAPLEWOOD, MO

LOCATION.--Lat 38°36'04", long 90°19'34", St. Louis County, Hydrologic Unit 07140101, on right downstream pier of Big Bend Road bridge, 0.44 mi north of Interstate 44, 4.35 mi east of U.S. 67 (Lindbergh Blvd.), and 0.63 mi upstream of River Des Peres.

DRAINAGE AREA.--36.51 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 415.75 ft above sea level.

REMARKS.--Water-discharge records fair except for estimated daily discharges, period of questionable gage-height record (July 4-26), and those below 2 ft^3/s and above 2,200 ft^3/s, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 24, 1970 reached a stage of 16.74 ft, former datum, discharge unknown.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.96	1.3	2.2	e1.5	4.8	3.4	e1.7	9.9	5.8	13	.97	.79
2	.93	10	5.4	e1.3	3.9	3.0	e5.9	2.2	2.3	9.4	17	.69
3	1.0	1.3	4.7	e1.2	3.6	2.2	e184	1.3	35	4.1	34	.63
4	1.5	.88	3.0	e1.5	2.8	2.1	9.7	1.2	87	209	2.3	.79
5	98	.85	2.5	e5.9	2.3	1.6	4.7	19	e7.0	15	1.3	1.4
6	3.7	62	3.0	e20	1.9	1.2	3.2	2.9	e50	5.3	1.1	.89
7	1.2	12	3.1	e17	1.7	2.0	2.4	1.5	4.5	2.6	.93	1.5
8	.87	1.5	3.0	e8.7	1.6	1.1	2.0	1.1	3.1	1.6	3.1	.97
9	.85	89	2.8	e3.3	145	1.2	28	1.1	2.2	1.5	.72	1.7
10	1.0	14	2.7	e2.4	13	1.1	69	1.0	1.6	.83	9.9	e230
11	2.4	3.9	42	e2.2	4.5	1.1	15	1.1	1.5	2.9	1.1	e4.3
12	1.4	17	e5.7	e2.6	3.0	1.3	9.7	1.1	1.7	78	.89	e.84
13	.96	41	e3.0	e9.2	8.2	1.1	3.3	.96	1.6	4.6	.77	e.59
14	1.3	4.5	e2.6	e31	18	1.4	2.7	1.1	1.6	3.7	.78	e.56
15	36	2.6	e4.0	19	6.5	176	85	1.2	41	1.4	.75	e.53
16	216	2.4	e12	8.5	3.5	115	5.8	1.5	3.7	.70	2.0	e.52
17	50	2.3	e4.6	4.2	2.4	11	3.3	5.2	1.7	.66	.76	e3.3
18	3.9	2.2	e3.4	3.3	1.8	6.0	2.5	84	1.3	289	.80	e180
19	1.6	2.2	e2.4	2.9	1.5	5.2	2.5	35	1.2	138	.78	e9.8
20	1.3	2.2	e2.1	2.9	1.4	3.6	2.3	10	158	178	.81	e1.4
21	1.4	2.5	e1.9	2.4	1.5	3.1	2.3	44	42	57	.75	e1.3
22	4.1	2.8	e1.8	1.9	2.8	4.8	3.3	3.2	19	34	.77	e.89
23	2.4	2.7	e1.6	3.2	5.0	4.3	4.0	3.0	3.4	24	1.8	e.66
24	1.9	3.1	e1.9	2.8	294	3.8	12	4.3	1.8	203	14	e.66
25	1.6	73	e1.6	1.9	76	2.6	2.4	11	1.4	3.1	4.8	e.64
26	1.4	9.1	e1.7	3.6	9.5	2.6	2.2	10	2.2	1.9	1.8	e.52
27	1.4	3.9	e2.0	3.6	6.9	2.2	2.1	2.6	1.6	1.5	1.1	e.51
28	1.4	2.6	e1.7	2.3	5.8	2.2	2.0	1.6	1.3	1.3	1.0	e.50
29	1.3	2.6	e1.7	97	---	e1.4	1.8	1.2	11	1.2	2.1	e.54
30	1.3	6.6	e1.5	39	---	e1.7	3.6	43	71	.95	3.0	e.51
31	1.6	---	e1.4	9.5	---	e2.5	---	247	---	.94	1.8	---
MEAN	14.3	12.7	4.29	10.2	22.6	12.0	15.9	17.8	18.9	41.6	3.67	14.9
MAX	216	89	42	97	294	176	184	247	158	289	34	230
MIN	.85	.85	1.4	1.2	1.4	1.1	1.7	.96	1.2	.66	.72	.50
MED	1.4	2.8	2.6	3.3	3.8	2.2	3.3	2.6	2.7	3.7	1.1	.79
IN.	.45	.39	.14	.32	.65	.38	.49	.56	.58	1.31	.12	.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	10.7	25.3	6.58	24.9	44.7	35.6	22.5	27.5	54.9	29.5	18.8	11.8
MAX	14.3	82.3	11.1	48.4	77.0	108	46.9	67.9	101	48.5	35.3	28.8
(WY)	2001	1997	2000	1999	1999	1998	1998	2000	1998	1998	1996	1996
MIN	8.23	1.93	2.09	5.75	22.6	7.92	9.27	15.4	18.9	2.23	3.67	2.15
(WY)	1998	2000	1999	2000	2001	2000	2000	1999	2001	1997	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL MEAN	25.2		15.7		25.3	
HIGHEST ANNUAL MEAN					36.5	1998
LOWEST ANNUAL MEAN					15.7	2001
HIGHEST DAILY MEAN	1980	Jun 24	294	Feb 24	1980	Jun 24 2000
LOWEST DAILY MEAN	.82	Jan 28	.50	Sep 28	.24	Oct 20 1996
ANNUAL SEVEN-DAY MINIMUM	.89	Jan 22	.55	Sep 24	.30	Oct 1 1996
MAXIMUM PEAK FLOW	---		2930[a]	Jul 18	6550[a]	Jun 24 2000
MAXIMUM PEAK STAGE	---		11.38	Jul 18	16.41	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.57[b]	Aug 23,Sep 2,3	.09	Oct 20 1996
ANNUAL RUNOFF (INCHES)	9.38		5.84		9.43	
10 PERCENT EXCEEDS	29		40		44	
50 PERCENT EXCEEDS	1.9		2.4		2.0	
90 PERCENT EXCEEDS	1.0		.89		.75	

e Estimated
[a] From rating extended above 1,053 ft^3/s.
[b] Minimum recorded, may have been less during the periods Sept. 12-16 and 23-30.

07010086 DEER CREEK AT MAPLEWOOD, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
MAY												
21...	0250	ENVIRONMENTAL	100	3.6	43	7.4	490	21.9	120	37.0	6.10	76
21...	0251	REPLICATE	--	--	--	--	--	--	--	--	--	--
30...	0805	ENVIRONMENTAL	1.2	2.4	27	7.6	920	20.1	230	73.0	12.0	251
AUG												
27...	1130	ENVIRONMENTAL	1.2	5.0	63	7.5	736	25.8	180	56.0	10.0	125
27...	1131	REPLICATE	--	--	--	--	--	--	--	--	10.0	--

DATE	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	RESIDUE GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2) (00405)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col/ 100 mL) (31633)
MAY													
21...	75	92	0	150	2.0	.41	.7	.10	.140	.450	5.6	25	14000
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	252	308	0	10	1.6	.87	.6	.10	.180	.240	13	13	K900
AUG													
27...	127	155	0	3	1.2	.71	.5	.08	.150	.200	7.6	33	230
27...	--	--	--	5	1.2	.71	.5	.07	.160	.210	--	32	--

DATE	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L) as Hg) (71900)	NICKEL, DIS-SOLVED (µg/L) as Ni) (01065)
MAY													
21...	K160000	42000	74	2.5	<1.00	<1.00	1.0	5.4	210	1.00	260	<.10	3.00
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	1400	1100	12	2.8	<1.00	<1.00	<1.0	1.9	170	<1.00	483	<.10	4.20
AUG													
27...	400	120	12	3.2	<1.00	<1.00	<1.0	3.0	90	<1.00	294	<.10	2.00
27...	--	--	11	3.1	<1.00	<1.00	<1.0	3.0	90	<1.00	294	<.10	1.90

DATE	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	2,4,6-TRI-CHLORO-PHENOL TOTAL (µg/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (µg/L) (34601)	2,4,-DI-NITRO-PHENOL TOTAL (µg/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (µg/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (µg/L) (34626)	2-CHLORO-PHENOL TOTAL (µg/L) (34586)
MAY													
21...	<1.0	<1.0	110	M	<2	<3	<3	M	<20	<3	<2	<2	<2
21...	--	--	--	M	<2	<3	<3	M	<20	<3	<2	<2	<2
30...	1.2	<1.0	176	--	--	--	--	--	--	--	--	--	--
AUG													
27...	<1.0	<1.0	109	--	--	--	--	--	--	--	--	--	--
27...	<1.0	<1.0	74	--	--	--	--	--	--	--	--	--	--

07010086 DEER CREEK AT MAPLEWOOD, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	2-NITRO-PHENOL TOTAL (µg/L) (34591)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (µg/L) (34631)	4,6-DINITRO-ORTHO-CRESOL TOTAL (µg/L) (34657)	4-BROMO-PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4-NITRO-PHENOL TOTAL (µg/L) (34646)	ACE-NAPHTH-ENE TOTAL (µg/L) (34205)	ACE-NAPHTH-YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA-CENE TOTAL (µg/L) (34220)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)	BENZI-DINE TOTAL (µg/L) (39120)	BENZO-A-PYRENE TOTAL (µg/L) (34247)
MAY													
21...	<3	<3	<3	<2	<2	E2	M	M	<.013	M	<2	<40	E1
21...	<3	<3	<3	<2	<2	E2	M	M	<.013	M	<2	<40	E1
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZO B FLUOR-AN-THENE TOTAL (µg/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA-CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO-[GHI]-PERY-LENE TOTAL (µg/L) (34521)	BIS(2-CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2-CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (µg/L) (39100)	CARBO-PHENO-THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)	CHRY-SENE TOTAL (µg/L) (34320)	CYCLOPE NTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)
MAY													
21...	E2	M	M	E2	<3	<2	<2	M	<.02	<.1	E.01	E2	<2
21...	E2	M	M	E2	<3	<2	<2	M	<.02	<.1	E.01	E1	<2
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)	DI-N-OCTYL PHTHAL-ATE TOTAL (µg/L) (34596)	DISUL-FOTON UNFILT RECOVER (µg/L) (39011)	ENDO-SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)	FLUOR-ANTHENE TOTAL (µg/L) (34376)	FLUOR-ENE TOTAL (µg/L) (34381)
MAY													
21...	<.02	.06	<.006	<2	M	E1	M	<.03	<.015	<.014	<.01	3	M
21...	<.02	.06	<.006	M	M	E2	M	<.03	<.015	<.014	<.01	3	M
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (µg/L) (34403)	ISO-PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA-THION, TOTAL (µg/L) (39530)	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)	N-BUTYL BENZYL PHTHAL-ATE TOTAL (µg/L) (34292)	N-NITRO-SODI-METHYL-AMINE TOTAL (µg/L) (34438)
MAY													
21...	<.01	<.009	<.014	<2	E2	M	<.006	E.02	<.01	<.01	<.01	M	<3
21...	<.01	<.009	<.014	<2	E2	M	<.006	E.02	<.01	<.01	<.01	M	<3
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (µg/L) (34428)	N-NITRO-SODI-PHENYL-AMINE TOTAL (µg/L) (34433)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARA-CHLORO-META CRESOL TOTAL (µg/L) (34452)	PARA-THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PHENAN-THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)
MAY													
21...	<2	<3	<.007	<.006	<.009	<3	<.01	<.1	E3	E1	<3	<.02	2
21...	<2	<3	<.007	<.006	<.009	<3	<.01	<.1	E2	E1	M	<.02	3
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

07010086 DEER CREEK AT MAPLEWOOD, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TOX-APHENE, TOTAL (µg/L) (39400)	1,1,1-TRI-CHLORO-ETHANE TOTAL (µg/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (µg/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (µg/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)	BROMO-FORM TOTAL (µg/L) (32104)
MAY													
21...	<1	<.10	<.10	<.10	<.2	<.10	<.10	<2.0	<2.00	<2.00	<2.00	<.10	<.20
21...	<1	<.10	<.10	<.10	<.2	<.10	<.10	<2.0	<2.00	<2.00	<2.00	<.10	<.20
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (µg/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (µg/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µg/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)	ETHYL-BENZENE TOTAL (µg/L) (34371)
MAY													
21...	<.20	<.10	<.2	.12	.44	<.10	<.2	<.2	<2.0	<.2	<.10	<.2	<.10
21...	<.20	<.10	<.2	.13	.51	<.10	<.2	<.2	<2.0	<.2	<.10	<.2	<.10
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
MAY													
21...	<.10	<3.0	E.1	<.2	<.20	<5.0	<.10	<.10	<.1	<.10	<.10	<.20	.2
21...	<.10	<3.0	E.1	<.2	<.20	E.1	<.10	<.10	<.1	<.10	<.10	<.20	.3
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07010090 MCKENZIE CREEK NEAR SHREWSBURY, MO

LOCATION.--Lat 38°34'37", long 90°19'24", St. Louis County, Hydrologic Unit 07140101, on right downstream bridge abutment at Resurrection Cemetery, 1.24 mi south of Interstate 44, 4.48 mi east of U.S. 67 (Lindbergh Blvd.), and 0.85 mi upstream of River Des Peres Drainage Channel.

DRAINAGE AREA.--3.49 mi^2.

PERIOD OF RECORD.--May 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage unknown.

REMARKS.--Record fair except for estimated daily discharges and those above 300 ft^3/s and below 1 ft^3/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.19	.38	.36	.65	.67	.58	.29	1.2	.75	.64	.08
2	.12	2.0	1.4	.33	.46	.57	1.3	.29	1.0	.49	3.2	.06
3	.09	.15	.74	.36	.38	.56	12	.29	6.9	.46	1.6	.07
4	.09	.13	.35	.51	.35	.46	1.5	1.4	10	26	.35	.07
5	1.4	.13	.33	1.4	.33	.44	1.0	2.0	1.7	2.2	.30	.07
6	.13	8.5	.33	2.4	.31	.44	.93	1.1	6.3	.45	.29	.06
7	.12	.73	.33	1.7	.22	.39	.84	.30	1.2	.39	.28	.07
8	.10	.23	.31	1.0	.22	.38	.69	.25	.90	.34	.44	35
9	.09	7.3	.29	.53	40	.36	30	.25	.80	.43	.20	7.9
10	.09	.61	.29	.52	1.4	.33	5.3	.25	.72	.41	.20	.12
11	.09	.27	5.2	.54	.87	.33	3.0	.25	.68	.35	.20	.08
12	.09	3.8	.50	.81	.75	.42	1.4	.25	.68	3.4	.16	.08
13	.11	2.6	.46	2.5	1.5	.40	.86	.25	.68	.36	.16	.07
14	.14	.62	.51	2.9	4.2	1.2	.66	.25	1.2	.27	.13	.07
15	3.1	.50	.94	1.1	1.5	21	9.4	.22	2.2	.47	.12	.07
16	23	.46	2.2	.72	.70	4.0	.92	.22	.68	.25	.13	.07
17	1.5	.39	.93	.57	.56	1.2	.82	1.9	.68	.24	.11	.23
18	.26	.38	.80	.56	.51	.92	.72	12	.64	12	.10	32
19	.19	.36	.55	.52	.50	.78	.65	2.2	.60	20	.09	.36
20	.17	.33	.80	.45	.44	.71	.55	6.9	73	17	.07	.12
21	.16	.33	e1.0	.35	.44	.64	.47	5.1	10	11	.06	.25
22	.60	.33	e.95	.33	.65	1.5	.55	1.8	1.2	3.1	.07	.13
23	1.0	.33	.90	.33	1.1	.70	.70	1.1	.75	6.3	1.8	.13
24	.31	.54	.92	.33	15	.85	.42	2.1	.61	33	3.8	.12
25	.16	9.0	.56	.31	2.3	.58	.38	4.7	.53	1.1	2.1	.10
26	.16	.96	.55	.89	.85	.56	.38	1.6	.50	.86	.24	.10
27	.16	.57	.67	.38	1.2	.53	.38	.83	.46	.80	.11	.10
28	.14	.48	.41	.29	.74	.50	.37	.69	.46	.76	.07	.17
29	.14	.39	.38	6.9	---	.47	.37	.68	.46	.76	.07	.12
30	.16	.38	.48	3.3	---	.44	.32	14	2.1	.76	5.0	.10
31	.20	---	.52	1.1	---	.55	---	11	---	.70	.32	---
MEAN	1.10	1.43	.81	1.11	2.79	1.38	2.58	2.40	4.29	4.69	.72	2.60
MAX	23	9.0	5.2	6.9	40	21	30	14	73	33	5.0	35
MIN	.09	.13	.29	.29	.22	.33	.32	.22	.46	.24	.06	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	1.51	1.53	1.15	2.64	4.46	4.08	3.13	3.73	6.59	5.04	2.95	1.40
MAX	1.83	2.23	1.89	4.97	8.01	11.4	5.68	8.05	13.2	10.1	7.16	2.60
(WY)	1998	1999	1998	1999	1999	1998	1998	2000	1998	1998	1998	2001
MIN	1.10	.32	.43	1.04	2.79	.85	1.05	1.29	2.56	1.72	.54	.52
(WY)	2001	2000	1999	2000	2001	2000	2000	1999	1999	1997	1999	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	3.07		2.15		3.30	
HIGHEST ANNUAL MEAN					5.46	1998
LOWEST ANNUAL MEAN					2.15	2001
HIGHEST DAILY MEAN	209	Jun 24	73	Jun 20	209	Jun 24 2000
LOWEST DAILY MEAN	.09	Oct 3,4,9-12	.06	Aug 21,Sep 2,6	.06	Aug 21,Sep 2,6 2001
ANNUAL SEVEN-DAY MINIMUM	.10	Oct 7	.07	Sep 1	.07	Sep 1 2001
MAXIMUM PEAK FLOW	---		1590[a]	Jun 20	3260[a]	Jun 11 1998
MAXIMUM PEAK STAGE	---		9.10	Jun 20	10.80	Jun 11 1998
INSTANTANEOUS LOW FLOW	---		.03	Aug 21	.03	Aug 21 2001
10 PERCENT EXCEEDS	3.7		4.1		5.6	
50 PERCENT EXCEEDS	.46		.52		.65	
90 PERCENT EXCEEDS	.19		.12		.20	

e Estimated
[a] From rating extended above 156 ft^3/s.

07010180 GRAVOIS CREEK NEAR MEHLVILLE, MO

LOCATION.--Lat 38°31'36", long 90°17'58", St. Louis County, Hydrologic Unit 07140101, on center downstream pier of Green Park Road bridge, 1.10 mi south of Interstate 55, 0.24 mi west of Highway 267 (Lemay Ferry Road), and 3.48 mi upstream of River Des Peres Drainage Channel.

DRAINAGE AREA.--18.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 422.15 ft above sea level.

REMARKS.--Water-discharge records fair except for estimated daily discharges and those below 1.5 ft^3/s and above 2,300 ft^3/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.2	3.8	e1.5	5.0	6.6	3.1	3.4	6.9	5.2	.67	.25
2	1.3	16	9.0	1.3	3.5	5.4	3.1	2.7	3.4	1.8	.64	.19
3	1.3	3.1	5.9	1.3	2.7	4.4	2.9	2.4	27	1.8	4.7	.19
4	1.3	1.5	2.8	1.5	2.7	3.8	2.7	2.4	62	77	.80	.19
5	6.0	1.4	2.2	5.3	2.6	3.3	2.7	11	10	18	.47	.16
6	2.4	55	1.9	16	2.4	3.1	2.4	16	32	4.2	.44	.17
7	1.3	13	1.8	15	2.1	3.1	2.4	3.2	6.5	2.1	.40	.16
8	1.1	3.0	1.8	e6.0	2.1	2.9	2.3	2.4	3.5	1.4	.38	54
9	1.1	67	2.8	e2.8	220	2.6	50	2.1	2.4	1.9	.34	214
10	.98	12	1.8	3.2	15	2.2	144	2.1	2.1	1.6	1.0	5.8
11	.95	4.1	36	3.9	8.1	2.4	21	2.1	1.8	1.6	.30	1.2
12	.86	14	e3.8	5.5	6.4	2.6	14	2.1	2.4	15	.29	.71
13	.86	35	e3.4	9.2	10	2.9	8.9	2.2	2.7	8.0	.26	.60
14	.76	4.8	2.7	30	38	3.0	7.4	2.4	2.1	2.3	.26	.54
15	24	3.0	3.8	11	15	130	62	2.1	27	1.3	.23	.49
16	201	2.4	10	6.2	7.8	47	8.8	2.0	2.5	1.2	.22	.45
17	24	2.0	e3.4	4.1	5.4	12	7.4	2.2	1.7	.98	.22	.45
18	4.9	2.1	e3.0	3.6	4.7	8.2	7.1	118	1.6	19	.19	154
19	2.6	2.4	e2.4	3.2	4.6	6.8	5.6	21	1.4	22	.18	7.5
20	2.2	2.2	e2.1	2.6	4.6	6.3	4.6	15	197	26	.16	1.4
21	2.3	2.1	e2.0	2.2	4.5	5.7	4.6	28	40	9.9	.15	1.8
22	4.6	2.4	e1.9	1.9	6.9	12	4.9	3.7	8.9	17	.14	1.0
23	7.3	3.0	e1.8	2.1	6.2	7.3	5.6	2.4	3.1	121	.41	.76
24	9.0	3.6	e2.0	2.1	136	6.4	5.6	2.2	2.1	373	16	.69
25	2.2	61	e1.7	1.5	36	5.7	3.5	17	1.8	7.4	13	.61
26	1.6	9.3	e1.9	3.0	11	5.0	3.4	9.5	1.6	2.6	3.3	.58
27	1.8	3.7	e2.1	5.1	19	4.3	3.1	2.6	1.5	1.7	.34	.58
28	1.8	2.5	e1.8	1.8	11	4.0	3.0	1.8	1.6	1.3	.17	.62
29	1.8	2.2	e1.8	45	---	3.7	2.7	1.6	1.7	1.1	.17	.66
30	1.8	3.5	e1.6	25	---	3.4	2.6	26	5.0	.78	.75	.58
31	3.4	---	e1.6	9.9	---	3.3	---	117	---	.76	3.9	---
MEAN	10.3	11.3	4.02	7.51	21.2	10.3	13.4	13.8	15.4	24.2	1.63	15.0
MAX	201	67	36	45	220	130	144	118	197	373	16	214
MIN	.76	1.4	1.6	1.3	2.1	2.2	2.3	1.6	1.4	.76	.14	.16
IN.	.65	.70	.26	.48	1.22	.66	.82	.88	.95	1.54	.10	.93

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	9.58	17.1	7.04	23.5	30.5	25.5	17.4	19.9	36.8	24.6	14.1	11.2
MAX	11.8	45.0	10.2	51.4	49.5	69.8	32.0	41.9	65.6	44.3	27.3	27.9
(WY)	2000	1997	2000	1999	1999	1998	1998	2000	1998	1998	2000	1996
MIN	7.44	2.04	4.02	5.66	19.0	7.19	6.43	8.31	15.4	7.39	1.63	2.56
(WY)	1998	2000	2001	2000	2000	2000	2000	1999	2001	1997	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL MEAN	19.0		12.2		19.4	
HIGHEST ANNUAL MEAN					27.4	1998
LOWEST ANNUAL MEAN					12.2	2001
HIGHEST DAILY MEAN	1110	Jun 24	373	Jul 24	1110	Jun 24 2000
LOWEST DAILY MEAN	.76	Oct 14	.14	Aug 22	.14	Aug 22 2001
ANNUAL SEVEN-DAY MINIMUM	.94	Oct 8	.18	Aug 16	.18	Aug 16 2001
MAXIMUM PEAK FLOW	---		3070[a]	Jul 24	4020[a]	Jun 24 2000
MAXIMUM PEAK STAGE	---		13.62	Jul 24	15.67	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.14	Aug 20-23, Sep 4,5,7,8	.14	Aug 20-23, Sep 4,5,7,8 2001
ANNUAL RUNOFF (INCHES)	14.27		9.19		14.60	
10 PERCENT EXCEEDS	33		24		36	
50 PERCENT EXCEEDS	2.4		2.7		4.0	
90 PERCENT EXCEEDS	1.1		.61		1.2	

e Estimated
[a] From rating extended above 1,151 ft^3/s.

07010180 GRAVOIS CREEK NEAR MEHLVILLE, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1996 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV												
06...	1053	ENVIRONMENTAL	100	8.0	77	7.4	714	12.8	200	60.0	11.0	143
DEC												
18...	1335	ENVIRONMENTAL	e3.4	11.0	78	7.5	4650	.7	510	160	26.0	179
FEB												
24...	0837	ENVIRONMENTAL	153	11.8	92	7.4	3480	4.2	300	91.0	17.0	145
24...	1000	BLANK	--	--	--	--	--	--	0	.30	.040	--
27...	1400	ENVIRONMENTAL	18	10.5	86	7.6	1330	7.0	290	89.0	16.0	185
MAY												
29...	1530	ENVIRONMENTAL	1.6	3.3	39	7.7	770	21.7	220	70.0	12.0	158
AUG												
27...	1415	ENVIRONMENTAL	.30	5.0	63	7.3	551	26.3	200	62.0	11.0	105

DATE	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2) (00405)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)
NOV													
06...	144	176	0	--	93	.70	.06	.3	.02	.150	.260	10	--
DEC													
18...	179	218	0	2600	14	.89	.52	1.0	.04	.090	.130	10	73
FEB													
24...	146	179	0	--	530	1.5	.23	1.5	.08	.100	.390	10	19
24...	--	--	--	--	<1	<.20	<.01	<.02	<.01	<.010	<.020	--	<5
27...	187	228	0	240	16	.88	.16	1.5	.04	.110	.140	9.9	12
MAY													
29...	159	194	0	--	14	.60	.06	.7	.02	.060	.090	6.1	12
AUG													
27...	107	130	0	--	5	<.20	.06	.2	<.01	.140	.150	9.3	13

DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)
NOV													
06...	4800	8000	20000	104	1.6	<1.00	<1.00	2.7	2.7	120	<1.00	110	<.10
DEC													
18...	260	K1100	540	14	<1.0	<1.00	<1.00	5.0	2.5	60	<1.00	530	<.10
FEB													
24...	2800	8200	15000	570	1.6	<1.00	<1.00	7.0	4.3	770	5.00	280	<.10
24...	--	--	--	13	<1.0	<1.00	<1.00	<1.0	<1.0	M	<1.00	1.1	<.10
27...	K176	1150	790	76	1.3	<1.00	<1.00	3.0	3.1	80	<1.00	140	<.10
MAY													
29...	K440	320	370	19	2.0	<1.00	<1.00	<1.0	1.8	20	<1.00	342	<.10
AUG													
27...	K30	K210	K42	27	1.5	<1.00	<1.00	<1.0	2.0	20	<1.00	105	<.10

07010180 GRAVOIS CREEK NEAR MEHLVILLE, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	2,4,6-TRI-CHLORO-PHENOL TOTAL (µg/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (µg/L) (34601)	2,4,-DI-NITRO-PHENOL TOTAL (µg/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (µg/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (µg/L) (34626)
NOV													
06...	2.40	<1.0	<1.0	71	2	<1	<1	<1	M	<2	<20	<1	<1
DEC													
18...	1.70	<1.0	<1.0	37	--	--	--	--	--	--	--	--	--
FEB													
24...	3.00	1.4	<1.0	76	2	M	<1	<1	<2	<2	<20	<1	<1
24...	<1.00	<1.0	<1.0	--	<1	<1	<1	<1	<2	<2	<20	<1	<1
27...	1.00	2.0	<1.0	35	--	--	--	--	--	--	--	--	--
MAY													
29...	3.70	1.0	<1.0	92	--	--	--	--	--	--	--	--	--
AUG													
27...	1.40	<1.0	<1.0	103	--	--	--	--	--	--	--	--	--

DATE	2-CHLORO-NAPH-THALENE TOTAL (µg/L) (34581)	2-CHLORO-PHENOL TOTAL (µg/L) (34586)	2-NITRO-PHENOL TOTAL (µg/L) (34591)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (µg/L) (34631)	4,6-DINITRO -ORTHO-CRESOL TOTAL (µg/L) (34657)	4-BROMO-PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4-NITRO-PHENOL TOTAL (µg/L) (34646)	ACE-NAPHTH-ENE TOTAL (µg/L) (34205)	ACE-NAPHTH-YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA-CENE TOTAL (µg/L) (34220)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)
NOV													
06...	<1	<1	<1	<1	E1	<1	<1	M	M	<1	<.013	M	<2
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	<1	<1	M	<1	<2	<1	<1	E2	M	M	<.013	M	<2
24...	<1	<1	<1	<1	<2	<1	<1	<1	<.9	<1	<.013	<1	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZI-DINE TOTAL (µg/L) (39120)	BENZO-A-PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR-AN-THENE TOTAL (µg/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA-CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO-[GHI]-PERY-LENE TOTAL (µg/L) (34521)	BIS(2-CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2-CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (µg/L) (39100)	CARBO-PHENO-THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)
NOV													
06...	<40	M	M	M	M	M	<1	<1	<1	<9	<.04	<.1	<.03
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	<40	E1	E2	M	M	E2	<1	<1	<1	M	<.02	<.1	<.01
24...	<40	<1	<2	<2	<1	<1	<1	<1	<1	<9	<.02	<.1	<.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

07010180 GRAVOIS CREEK NEAR MEHLVILLE, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CHRY-SENE TOTAL (µg/L) (34320)	CYCLOPENTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)	DI-N-OCTYL PHTHAL-ATE TOTAL (µg/L) (34596)	ENDO-SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)	FLUOR-ANTHENE TOTAL (µg/L) (34376)
NOV													
06...	M	<1	<.04	.05	<.006	<2	<2	<2	<1	<.015	<.014	<.03	M
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	E2	<1	<.04	<.04	<.006	<2	<2	<2	<1	<.015	<.014	<.01	4
24...	<1	<1	<.04	<.04	<.006	<2	<2	<2	<1	<.015	<.014	<.01	<1
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (µg/L) (34403)	ISO-PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA-THION, TOTAL (µg/L) (39530)	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)	N-BUTYL BENZYL PHTHAL-ATE TOTAL (µg/L) (34292)
NOV													
06...	M	<.01	<.009	<.014	<1	M	M	<.006	--	<.01	<.03	<.01	<2
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	M	<.01	<.009	<.014	<1	E2	M	<.006	<.06	<.01	<.01	<.01	<2
24...	<1	<.01	<.009	<.014	<1	<2	<1	<.006	<.06	<.01	<.01	<.01	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	N-NITRO-SODI-METHYL-AMONE TOTAL (µg/L) (34438)	NITRO-SODI-N-PROPYL-AMINE TOTAL (µg/L) (34428)	N-N-NITRO-SODI-PHENYL-AMINE TOTAL (µg/L) (34433)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARA-CHLORO-META CRESOL TOTAL (µg/L) (34452)	PARA-THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PHENAN-THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)
NOV													
06...	<2	<.9	<1	<.007	<.006	<.009	<2	<.02	<.1	E2	M	<2	<.04
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	E2	<2	<.10
24...	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	<2	<1	<2	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PYRENE TOTAL (µg/L) (34469)	TOX-APHENE, TOTAL (µg/L) (39400)	1,1,1-TRI-CHLORO-ETHANE TOTAL (µg/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (µg/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (µg/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)
NOV													
06...	M	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10	<.10
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	3	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10	<.10
24...	<1	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

07010180 GRAVOIS CREEK NEAR MEHLVILLE, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	CIS-1,2 BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DI-ISO-HEXA-CHLORO-WATER UNFLTRD RECOVER (µg/L) (34396)	ETHANE ETHER ETHYL WATER UNFLTRD RECOVER (µg/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µg/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)
NOV													
06...	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10	<.2
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10	<.2
24...	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10	<.2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ETHYL-BENZENE TOTAL (µg/L) (34371)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)
NOV													
06...	<.10	<.10	<1.3	.3	<.2	<.20	E.2	<.10	<.10	<.1	<.10	<.10	<.20
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	<.10	<.10	<1.3	.4	<.2	<.20	<1.2	<.10	<.10	<.1	<.10	<.10	<.20
24...	<.10	<.10	<1.3	<.2	<.2	<.20	<1.2	<.10	<.10	<.1	<.10	<.10	<.20
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
NOV	
06...	<.2
DEC	
18...	--
FEB	
24...	<.2
24...	<.2
27...	--
MAY	
29...	--
AUG	
27...	--

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07010208 MARTIGNEY CREEK NEAR ARNOLD, MO

LOCATION.--Lat 38°29'26", long 90°17'36", St. Louis County, Hydrologic Unit 07140101, on left downstream abutment of Sunrise Height Drive bridge, 0.1 mi south of Interstate 255, 0.5 mi east of Highway 231 (Telegraph Road), and 1.04 mi upstream of Mississippi River.

DRAINAGE AREA.--2.64 mi^2.

PERIOD OF RECORD.--May 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage unknown.

REMARKS.--Records fair except for period April to September and those below 1 ft^3/s and above 900 ft^3/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.51	.67	.55	.48	.53	1.3	.73	.67	.63	e.47	.54	.52
2	.51	5.5	1.5	.58	.51	1.1	3.6	.65	.50	e.69	2.8	.51
3	.52	.58	.59	.70	.51	.95	37	.62	2.6	e.43	1.2	.42
4	.63	.60	.55	.56	.52	.83	4.0	.62	9.0	e12	.54	.45
5	.88	.58	.54	1.9	.52	.81	1.1	4.8	5.4	e8.1	.43	.47
6	.47	20	.55	3.2	.52	.88	.76	24	16	e.80	.38	.56
7	.47	2.3	.55	2.7	.52	.86	.70	.87	1.9	e.50	.40	1.1
8	.47	.56	.53	1.2	.52	.87	.75	.53	e1.1	e.58	.42	26
9	.48	16	.52	.59	34	.87	5.6	.51	e1.2	e.44	.51	18
10	.48	2.2	.52	.53	4.5	.80	9.3	.49	e.75	e.43	3.6	.78
11	.46	.65	5.0	.52	1.2	.75	1.5	.50	e.89	.45	.45	.47
12	.46	6.1	.56	.61	.84	.81	1.0	.49	e.58	2.2	.42	.46
13	.47	5.1	.52	2.5	2.9	.87	.73	.50	e.98	.45	.40	.49
14	.47	.59	.49	3.5	7.6	1.0	.74	.52	e22	.37	.47	.46
15	2.6	.55	.58	.66	6.0	22	4.7	.58	e4.2	.35	.43	.42
16	34	.60	1.2	.52	1.4	8.9	.66	.75	e.88	.41	.51	.43
17	2.4	.60	.70	.50	.86	1.5	.60	2.2	e.69	.52	.59	.45
18	.52	.57	.56	.50	.78	.87	.61	28	e.52	5.2	.84	37
19	.48	.59	.53	.49	.82	.80	.61	2.6	e.50	5.0	.65	.92
20	.49	.67	.53	.48	.76	.74	.62	2.5	e4.0	9.2	.53	.59
21	.52	.67	.52	.48	.74	.74	.63	5.1	e14	3.3	.47	e.44
22	.72	.67	.51	.47	1.2	2.8	.62	.64	e1.0	2.0	.51	e.35
23	.99	.66	.51	.48	1.5	.80	.95	.57	e.89	4.0	2.5	.41
24	1.5	1.1	.52	.47	36	.96	.61	.53	e.74	58	4.5	.35
25	1.1	18	.54	.48	11	.69	.60	2.0	e.82	.55	.61	.36
26	1.2	1.1	.51	.82	3.5	.68	.62	.57	e.52	3.2	.49	.34
27	1.3	.55	.51	.78	2.6	.68	.65	.48	e5.3	.75	.52	.33
28	.85	.53	.50	.76	1.7	.69	.66	.45	e.85	e.79	.68	.34
29	.86	.56	.50	7.4	---	.71	.67	.46	e.58	e.56	.87	.33
30	.85	.56	.50	3.2	---	.75	.70	10	e.54	e.64	1.4	.37
31	1.7	---	.49	.60	---	1.7	---	22	---	.43	1.2	---
MEAN	1.91	2.98	.73	1.25	4.43	1.89	2.73	3.72	3.32	3.96	.96	3.14
MAX	34	20	5.0	7.4	36	22	37	28	22	58	4.5	37
MIN	.46	.53	.49	.47	.51	.68	.60	.45	.50	.35	.38	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	1.44	1.88	1.10	2.37	3.84	3.73	3.11	4.26	5.21	3.27	2.35	1.55
MAX	1.91	2.98	2.10	4.53	5.65	8.47	5.54	6.02	9.74	6.53	4.25	3.14
(WY)	2001	2001	2000	1999	1999	1998	1998	1998	2000	1998	2000	2001
MIN	1.21	.74	.38	1.25	2.61	1.69	1.30	1.44	2.10	.71	.96	.49
(WY)	1998	2000	1999	2001	2000	2000	2000	1999	1999	1997	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	3.22		2.57		2.96	
HIGHEST ANNUAL MEAN					3.97	1998
LOWEST ANNUAL MEAN					2.19	1999
HIGHEST DAILY MEAN	126	Jun 24	58	Jul 24	126	Jun 24 2000
LOWEST DAILY MEAN	.37	Jan 1	.33	Sep 27,29	.17	Sep 23 1999
ANNUAL SEVEN-DAY MINIMUM	.44	Jan 10	.35	Sep 24	.20	Dec 23 1998
MAXIMUM PEAK FLOW	---		803[a]	Jul 24	1180[a]	Jun 24 2000
MAXIMUM PEAK STAGE	---		10.47	Jul 24	12.79	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.29	Sep 26-29	.13	Oct 1 1999
10 PERCENT EXCEEDS	5.8		5.1		5.3	
50 PERCENT EXCEEDS	.70		.66		.69	
90 PERCENT EXCEEDS	.51		.46		.35	

e Estimated
[a] From rating extended above 419 ft^3/s.

07010500 MARAMEC SPRING NEAR ST. JAMES, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°57'20", long 91°31'57", SE $^1/_4$ SW $^1/_4$ NE $^1/_4$ sec.1, T.37 N., R.6 W., Phelps County, Hydrologic Unit 07140102. Site is in Maramec Spring Park, approximately 5 mi east of St. James on Highway 8.

PERIOD OF RECORD.--November 1993 to August 1997, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
08...	1310	ENVIRONMENTAL	115	7.5	73.4	7.2	367	13.7	184	38.1	21.5	.86
JAN												
09...	1530	ENVIRONMENTAL	58	7.9	75.7	7.6	358	13.5	--	--	--	--
MAR												
27...	1255	ENVIRONMENTAL	104	10.1	97.2	7.0	295	13.6	--	--	--	--
MAY												
14...	0930	ENVIRONMENTAL	72	9.1	87.0	7.3	299	13.6	151	31.1	17.8	1.00
JUL												
20...	0935	ENVIRONMENTAL	63	8.0	80.8	7.6	295	14.1	--	--	--	--
SEP												
06...	1300	ENVIRONMENTAL	72	8.5	85.8	7.5	336	14.4	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
08...	5.0	174	182	222	0	6.3	E.1	5.1	<10	200	<.041	E.05	.724
JAN													
09...	--	180	180	220	0	--	--	--	--	--	E.027	.09	.800
MAR													
27...	--	119	121	144	0	--	--	--	--	--	<.041	E.04	.978
MAY													
14...	4.7	134	135	165	0	7.2	<.2	6.2	<10	170	<.040	E.05	.692
JUL													
20...	--	155	155	189	0	--	--	--	--	--	<.040	.09	.671
SEP													
06...	--	165	166	203	0	--	--	--	--	--	E.023	E.06	.593

07010500 MARAMEC SPRING NEAR ST. JAMES, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
08...	<.006	<.060	.022	E.047	<10	K2	K3	K10	<15	<28	--	<8.00	<.11
JAN													
09...	<.006	E.036	.027	<.060	--	K5	K10	36	--	--	--	--	--
MAR													
27...	E.004	<.060	E.015	<.060	--	K1	K1	K7	--	--	--	--	--
MAY													
14...	E.003	<.060	.025	E.037	<10	K6	K6	K18	20	40	.2	<8.00	<.10
JUL													
20...	E.004	<.060	E.016	E.039	--	K15	23	24	--	--	--	--	--
SEP													
06...	<.006	<.060	.019	<.060	--	K9	K6	88	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV								
08...	<4.7	<10	<.08	<1	<3.2	<.14	34	<31
JAN								
09...	--	--	--	--	--	--	--	--
MAR								
27...	--	--	--	--	--	--	--	--
MAY								
14...	<5.0	10	E.04	<1	<3.0	<.01	--	3
JUL								
20...	--	--	--	--	--	--	--	--
SEP								
06...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

07013000 MERAMEC RIVER NEAR STEELVILLE, MO

LOCATION.--Lat 37°59'58", long 91°21'39", in NE $^1/_4$ sec.21, T.38 N., R.4 W., Crawford County, Hydrologic Unit 07140102, on left bank 20 ft downstream from railroad bridge, 400 ft upstream from highway bridge, 0.8 mi upstream from Whittenburg Creek, 1.5 mi north of Steelville, and at mile 146.4.

DRAINAGE AREA.--781 mi^2.

PERIOD OF RECORD.--October 1922 to current year. Prior to January 1923 monthly discharges only, published in WSP 1311. Gage-height records for 1916-33 at site 1.0 mi upstream in reports of the National Weather Service.

REVISED RECORDS.--WSP 897: 1939. WSP 1007: Drainage Area.

GAGE.--Water-stage recorder. Datum of gage is 681.68 ft above sea level. Prior to May 24, 1934, and from July 20, 1966 to July 20, 1967, nonrecording gage, 400 ft downstream, same datum; May 24, 1934 to July 20, 1966, water-stage recorder at present site and datum; July 20, 1967 to Feb. 13, 1973, water-stage recorder at site 1,900 ft downstream and at datum 1.8 ft lower; Feb, 14, 1973 to current year, water-stage recorder at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 20, 1915, reached a stage of 26.5 ft, discharge, 60,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	122	142	147	433	853	218	224	236	176	168	111
2	108	135	140	164	353	714	221	219	244	178	148	109
3	107	132	137	176	319	614	608	215	307	176	139	108
4	107	134	135	144	280	537	2420	214	636	166	133	107
5	108	131	134	132	252	471	4530	215	547	163	127	107
6	108	147	133	133	233	418	1650	219	499	157	120	107
7	106	148	132	138	206	380	1130	228	554	153	116	106
8	108	169	130	142	200	351	884	222	461	148	116	132
9	111	169	128	148	212	324	727	221	385	143	116	246
10	112	174	129	149	e380	304	791	206	320	140	120	261
11	116	179	135	149	e600	291	799	194	286	139	132	236
12	118	165	e143	151	391	277	649	174	267	151	167	201
13	117	161	e152	157	348	263	552	167	242	151	194	176
14	116	156	e164	186	353	249	477	164	224	180	172	157
15	125	158	e180	268	434	257	466	158	214	153	152	145
16	143	155	e173	274	702	330	477	154	236	143	142	137
17	226	150	e168	252	695	388	418	150	214	139	133	134
18	252	145	e162	226	545	343	376	191	194	136	132	137
19	172	143	e157	206	463	312	353	948	193	137	128	139
20	151	139	e152	189	e365	289	337	555	173	158	126	131
21	141	135	e148	175	e340	271	322	497	212	143	125	132
22	137	134	e145	167	320	264	305	749	416	133	121	130
23	130	133	e142	161	301	268	303	588	271	129	119	132
24	125	133	e140	159	1200	284	293	442	223	125	120	134
25	124	142	e138	155	7440	268	275	367	200	123	119	123
26	123	142	e136	155	2560	252	264	326	182	127	123	120
27	120	145	e134	151	1490	239	254	295	184	135	134	119
28	118	148	e132	149	1010	231	244	267	201	153	123	117
29	118	146	e130	170	---	228	236	237	234	177	116	116
30	121	143	129	435	---	227	230	227	192	194	113	114
31	120	---	132	594	---	224	---	221	---	212	116	---
MEAN	129	147	143	194	801	346	694	299	292	153	133	141
MAX	252	179	180	594	7440	853	4530	948	636	212	194	261
MIN	106	122	128	132	200	224	218	150	173	123	113	106
IN.	.19	.21	.21	.29	1.07	.51	.99	.44	.42	.23	.20	.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2001, BY WATER YEAR (WY)

MEAN	284	497	568	569	662	878	1087	959	725	381	266	279
MAX	2562	2995	4712	3155	2397	2842	4954	3665	4644	3461	1181	2664
(WY)	1950	1994	1983	1950	1985	1945	1994	1957	1935	1998	1982	1993
MIN	85.2	118	116	114	126	141	138	131	134	92.9	104	82.2
(WY)	1957	1965	1965	1956	1934	1954	1954	1977	1932	1934	1936	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1923 - 2001	
ANNUAL MEAN	167		285		595	
HIGHEST ANNUAL MEAN					1473	1985
LOWEST ANNUAL MEAN					177	1954
HIGHEST DAILY MEAN	490	Mar 28	7440	Feb 25	44600	Jul 27 1998
LOWEST DAILY MEAN	90	Sep 21,22	106	Oct 7,Sep 7	76	Jul 22 1934
ANNUAL SEVEN-DAY MINIMUM	92	Sep 17	107	Oct 2	78	Oct 5 1956
MAXIMUM PEAK FLOW	---		9050	Feb 25	55800	Jul 27 1998
MAXIMUM PEAK STAGE	---		9.89	Feb 25	27.22	Jul 27 1998
INSTANTANEOUS LOW FLOW	---		101	Sep 8	74	Jul 22 1934
ANNUAL RUNOFF (INCHES)	2.92		4.95		10.36	
10 PERCENT EXCEEDS	259		473		1100	
50 PERCENT EXCEEDS	148		167		266	
90 PERCENT EXCEEDS	108		120		131	

e Estimated

07014000 HUZZAH CREEK NEAR STEELVILLE, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°58'29", long 91°12'16", in SW $^1/_4$ SW $^1/_4$ SE $^1/_4$ sec.25, T.38 N., R.3 W., Crawford County, Hydrologic Unit 07140102. Site is at bridge on State Highway 8, at Huzzah Valley Resort, approximately 9 mi east of Steelville.

DRAINAGE AREA.--259 mi^2.

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
15...	1330	ENVIRONMENTAL	105	12.0	105	7.9	381	9.4	206	40.4	25.6	.54
JAN												
10...	1130	ENVIRONMENTAL	58	16.5	122	8.2	400	2.8	--	--	--	--
MAR												
22...	0955	ENVIRONMENTAL	110	10.8	97.2	7.6	347	10.2	--	--	--	--
MAY												
10...	1145	ENVIRONMENTAL	66	9.1	101	7.9	373	19.3	189	37.4	23.4	.92
JUL												
11...	1130	ENVIRONMENTAL	37	7.3	92.2	7.9	378	25.2	203	40.5	24.7	.83
SEP												
06...	1030	ENVIRONMENTAL	28	7.5	90.8	7.8	397	23.7	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
15...	3.7	197	200	244	0	4.3	<.2	12.5	<10	227	<.041	.63	.135
JAN													
10...	--	204	206	251	0	--	--	--	--	--	<.041	<.08	.123
MAR													
22...	--	165	165	201	0	--	--	--	--	--	<.041	.10	.535
MAY													
10...	5.4	175	175	214	0	4.0	<.2	13.9	<10	226	<.041	.10	.268
JUL													
11...	4.7	182	185	226	0	3.5	E.1	12.1	<10	199	<.040	E.07	.207
SEP													
06...	--	195	195	238	0	--	--	--	--	--	<.040	<.08	.111

07014000 HUZZAH CREEK NEAR STEELVILLE, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITROGEN, NITRITE DISSOLVED (mg/L as N) (00613)	PHOSPHORUS DISSOLVED (mg/L as P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) (00671)	PHOSPHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEMICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	ARSENIC DISSOLVED (µg/L as As) (01000)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV 15...	<.006	<.060	<.018	.078	<10	<1	K12	K12	3	9	E.2	<8.00	<.11
JAN 10...	<.006	<.060	<.018	<.060	--	K2	K4	K12	--	--	--	--	--
MAR 22...	<.006	<.060	<.018	<.060	--	27	50	K13	--	--	--	--	--
MAY 10...	.006	<.060	<.018	<.060	<10	K3	28	22	9	16	.2	<8.00	<.11
JUL 11...	.007	<.060	<.020	<.060	<10	K14	K63	46	5	30	.2	<8.00	<.10
SEP 06...	<.006	<.060	<.020	<.060	--	58	K86	81	--	--	--	--	--

DATE	COPPER, DISSOLVED (µg/L as Cu) (01040)	IRON, DISSOLVED (µg/L as Fe) (01046)	LEAD, DISSOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOVERABLE (µg/L as Pb) (01051)	MANGANESE, DISSOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOVERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOVERABLE (µg/L as Zn) (01092)
NOV 15...	<4.7	<10	<.08	<1	E3.1	<.14	1
JAN 10...	--	--	--	--	--	--	--
MAR 22...	--	--	--	--	--	--	--
MAY 10...	<4.7	<10	E.04	<1	7.3	<.01	1
JUL 11...	<5.0	<10	<.08	<1	6.3	<.01	4
SEP 06...	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

07014200 COURTOIS CREEK AT BERRYMAN, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°55'05", long 91°06'04", in NE $^1/_4$ SW $^1/_4$ SW $^1/_4$ sec.13, T.37 N., R.2 W., Crawford County, Hydrologic Unit 07140102. Located at bridge on State Highway 8, approximately 13 mi east of Steelville.

DRAINAGE AREA.--173 mi^2.

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
15...	1030	ENVIRONMENTAL	39	11.2	99	7.9	449	9.7	240	48.0	30.2	.60
15...	1031	BLANK	--	--	--	--	--	--	0	.08	.012	<.09
JAN												
10...	0915	BLANK	--	--	--	--	--	--	--	--	--	--
10...	0950	ENVIRONMENTAL	36	14.8	108	8.1	450	2.1	--	--	--	--
MAR												
22...	0900	BLANK	--	--	--	--	--	--	--	--	--	--
22...	0910	ENVIRONMENTAL	60	10.6	93	7.6	368	9.4	--	--	--	--
MAY												
10...	0945	BLANK	--	--	--	--	--	--	--	.02	E.007	<.09
10...	1000	ENVIRONMENTAL	43	8.8	95	8.0	387	17.6	200	39.8	25.4	.58
JUL												
11...	0935	ENVIRONMENTAL	18	6.1	75	7.8	403	23.8	--	--	--	--
11...	0940	BLANK	--	--	--	--	--	--	--	--	--	--
SEP												
06...	0830	BLANK	--	--	--	--	--	--	--	--	--	--
06...	0900	ENVIRONMENTAL	14	6.0	72	7.8	429	23.3	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
15...	3.8	200	202	247	0	5.4	--	35.5	<10	238	<.041	.68	.076
15...	.4	--	--	--	--	<.1	<.2	.2	<10	<10	<.041	--	<.047
JAN													
10...	--	--	--	--	--	--	--	--	--	--	<.041	<.08	<.047
10...	--	203	206	251	0	--	--	--	--	--	<.041	<.08	.059
MAR													
22...	--	--	--	--	--	--	--	--	--	--	<.041	<.08	<.047
22...	--	153	154	188	0	--	--	--	--	--	<.041	E.04	.273
MAY													
10...	.2	--	--	--	--	<.1	<.2	<.1	<10	14	<.041	<.08	<.047
10...	3.5	172	173	211	0	4.0	E.1	19.5	<10	238	<.041	E.07	.085
JUL													
11...	--	187	188	230	0	--	--	--	--	--	<.040	E.06	.155
11...	--	--	--	--	--	--	--	--	--	--	<.040	E.07	<.050
SEP													
06...	--	--	--	--	--	--	--	--	--	--	<.040	<.08	E.026
06...	--	202	202	247	0	--	--	--	--	--	<.040	<.08	.094

07014200 COURTOIS CREEK AT BERRYMAN, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITROGEN, NITRITE DISSOLVED (mg/L as N) (00613)	PHOSPHORUS DISSOLVED (mg/L as P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) (00671)	PHOSPHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEMICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	ARSENIC DISSOLVED (µg/L as As) (01000)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
15...	<.006	<.060	<.018	.088	<10	K1	K11	K13	3	8	.2	<8.00	<.11
15...	<.006	<.060	<.018	--	<10	--	--	--	3	6	<.2	<8.00	<.11
JAN													
10...	<.006	<.060	<.018	<.060	--	--	--	--	--	--	--	--	--
10...	<.006	<.060	<.018	<.060	--	K1	K7	K3	--	--	--	--	--
MAR													
22...	<.006	<.060	<.018	<.060	--	--	--	--	--	--	--	--	--
22...	<.006	<.060	<.018	<.060	--	200	240	K10	--	--	--	--	--
MAY													
10...	E.004	<.060	<.018	<.060	<10	--	--	--	7	7	<.2	<8.00	<.11
10...	E.004	<.060	<.018	<.060	<10	K4	K15	36	8	14	.2	<8.00	<.11
JUL													
11...	E.003	<.060	<.020	<.060	--	28	33	52	--	--	--	--	--
11...	<.006	<.060	<.020	<.060	--	--	--	--	--	--	--	--	--
SEP													
06...	<.006	<.060	<.020	<.060	--	--	--	--	--	--	--	--	--
06...	<.006	<.060	<.020	<.060	--	67	K87	90	--	--	--	--	--

DATE	COPPER, DISSOLVED (µg/L as Cu) (01040)	IRON, DISSOLVED (µg/L as Fe) (01046)	LEAD, DISSOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOVERABLE (µg/L as Pb) (01051)	MANGANESE, DISSOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOVERABLE (µg/L as Hg) (71900)	ZINC, DISSOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOVERABLE (µg/L as Zn) (01092)
NOV								
15...	<4.7	<10	E.06	<1	E1.8	<.14	8	3
15...	<4.7	<10	<.08	<1	<3.2	<.14	1	2
JAN								
10...	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--
MAR								
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
MAY								
10...	<4.7	<10	<.08	<1	<3.2	<.01	3	<1
10...	<4.7	<10	<.08	<1	6.0	<.01	--	3
JUL								
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
SEP								
06...	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

07014500 MERAMEC RIVER NEAR SULLIVAN, MO

LOCATION.--Lat 38°09'30", long 91°06'30", in SE $^1/_4$ NE $^1/_4$ sec.35, T.40 N., R.2 W., Crawford County, Hydrologic Unit 07140102, on right bank at upstream side of Sappington Bridge, 3.8 mi downstream from Brazil Creek, 4.0 mi southeast of Sullivan, and at mile 117.0.

DRAINAGE AREA.--1,475 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1921 to September 1933, October 1943 to current year. Monthly discharge only for October 1943, published in WSP 1311.

REVISED RECORDS.--WSP 1007: 1922(M), 1924-30, 1933: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 581.82 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Oct. 21, 1952, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Water diverted from river 0.5 mi above gage by mining company. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1915 reached a stage of 33.5 ft, from information by local residents, discharge, 90,000 ft^3/s.

CORRECTIONS.--The peak stage for period of record is 32.34 ft, Dec. 4, 1982, superseding figures published in reports 1988 to 2000.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186	224	283	246	1070	1920	441	503	505	340	399	197
2	183	230	279	287	881	1650	447	480	517	340	327	187
3	177	236	268	308	740	1440	2050	463	563	345	289	186
4	175	e240	259	307	640	1250	3850	448	907	325	268	180
5	175	e252	253	279	564	1100	6890	432	1250	310	251	179
6	177	e273	249	269	511	961	3860	437	1140	291	235	174
7	176	e294	249	272	465	862	2770	451	1240	273	225	174
8	177	e319	244	277	430	783	2280	443	1210	267	217	177
9	183	e355	241	288	495	707	1960	425	969	254	218	387
10	187	e381	237	308	702	650	2160	413	798	250	225	462
11	191	e406	251	297	e1170	604	2180	384	677	238	251	479
12	196	e411	264	301	e932	570	1800	361	593	298	473	419
13	200	e391	e291	310	e814	539	1520	340	526	311	371	356
14	205	e365	316	362	801	509	1320	325	474	286	351	309
15	205	342	327	472	938	513	1240	321	463	302	311	275
16	245	336	e320	609	1390	663	1200	321	423	270	275	254
17	349	317	e313	593	1700	809	1130	326	444	253	252	243
18	472	296	e305	536	1430	791	1010	1170	399	244	238	248
19	458	281	e293	480	1170	709	924	1790	366	273	239	252
20	356	267	e288	434	1000	649	864	1630	345	311	236	246
21	307	255	e283	396	866	594	818	1390	377	289	235	241
22	277	246	e276	369	792	563	771	2090	450	274	232	236
23	260	243	e271	351	718	550	750	1750	588	251	226	233
24	245	242	e267	332	1330	562	738	1290	439	237	223	228
25	235	264	e263	316	8340	557	692	1020	377	226	221	222
26	229	273	e260	309	8250	519	649	858	342	237	221	214
27	225	294	e257	300	3270	488	611	748	319	280	217	206
28	223	313	e253	287	2350	464	576	657	334	301	223	197
29	221	308	e251	325	---	450	545	577	370	332	209	194
30	222	295	e249	465	---	449	525	535	398	403	202	190
31	222	---	e247	999	---	443	---	541	---	458	197	---
MEAN	237	298	271	377	1563	752	1552	739	593	293	260	252
MAX	472	411	327	999	8340	1920	6890	2090	1250	458	473	479
MIN	175	224	237	246	430	443	441	321	319	226	197	174
IN.	.19	.23	.21	.29	1.10	.59	1.17	.58	.45	.23	.20	.19

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	591	1051	1223	1229	1456	1927	2393	1961	1328	762	541	540
MAX	4307	5692	8307	6304	5264	5786	9435	7022	8742	6142	2030	5489
(WY)	1950	1986	1983	1950	1982	1945	1994	1957	1945	1951	1982	1993
MIN	156	249	232	216	281	295	347	292	263	205	199	146
(WY)	1957	1957	1956	1956	1954	1954	1954	1932	1932	1954	1964	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	360		590		1248	
HIGHEST ANNUAL MEAN					3014	1985
LOWEST ANNUAL MEAN					341	1954
HIGHEST DAILY MEAN	1450	May 27	8340	Feb 25	70600	Jun 9 1945
LOWEST DAILY MEAN	149	Sep 22	174	Sep 6,7	131	Sep 20 1956
ANNUAL SEVEN-DAY MINIMUM	155	Sep 17	177	Oct 2	133	Sep 16 1956
MAXIMUM PEAK FLOW	---		13100	Feb 25	77300	Jun 9 1945
MAXIMUM PEAK STAGE	---		13.59	Feb 25	32.34	Dec 4 1982
INSTANTANEOUS LOW FLOW	---		169	Sep 8	131	Sep 20 1956
ANNUAL RUNOFF (INCHES)	3.32		5.43		11.49	
10 PERCENT EXCEEDS	651		1170		2400	
50 PERCENT EXCEEDS	297		334		603	
90 PERCENT EXCEEDS	183		221		271	

e Estimated

07014500 MERAMEC RIVER NEAR SULLIVAN, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1963 to July 1975, July 1977 to June 1990, November 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT												
25...	0945	ENVIRONMENTAL	236	8.0	84	7.9	392	18.0	--	--	--	--
NOV												
07...	1450	ENVIRONMENTAL	322	8.6	84	8.1	372	13.9	200	39.0	24.5	.99
DEC												
04...	0945	ENVIRONMENTAL	264	12.5	92	8.2	395	3.8	--	--	--	--
04...	0946	REPLICATE	--	--	--	--	--	--	--	--	--	--
JAN												
24...	1015	ENVIRONMENTAL	333	13.1	96	8.0	255	2.3	210	42.4	26.3	.87
FEB												
15...	0945	ENVIRONMENTAL	895	10.6	89	8.1	356	7.8	--	--	--	--
MAR												
27...	0952	ENVIRONMENTAL	489	12.2	105	8.2	345	8.6	--	--	--	--
APR												
18...	1320	ENVIRONMENTAL	1000	10.5	101	7.9	291	14.1	--	--	--	--
18...	1321	REPLICATE	--	--	--	--	--	--	--	--	--	--
MAY												
14...	1330	ENVIRONMENTAL	324	9.4	109	8.2	341	22.8	170	34.1	21.6	.84
JUN												
13...	1315	ENVIRONMENTAL	523	8.1	105	8.1	341	27.1	--	--	--	--
JUL												
25...	1110	ENVIRONMENTAL	226	6.5	87	7.8	354	29.2	190	35.6	23.4	.52
AUG												
14...	1030	ENVIRONMENTAL	355	6.5	83	8.0	346	26.6	--	--	--	--
SEP												
06...	0935	ENVIRONMENTAL	175	6.0	76	8.0	350	25.5	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT													
25...	--	187	192	234	0	--	--	--	--	--	<.041	.11	<.047
NOV													
07...	3.9	178	181	221	0	5.2	.2	9.0	<10	205	<.041	.12	<.047
DEC													
04...	--	187	187	228	0	--	--	--	--	--	<.041	E.07	<.047
04...	--	--	--	--	--	--	--	--	--	--	<.041	.13	<.047
JAN													
24...	7.3	182	184	225	0	10.4	<.2	12.4	<10	218	<.041	E.04	.112
FEB													
15...	--	162	162	198	--	--	--	--	--	--	<.041	.27	.332
MAR													
27...	--	145	144	173	0	--	--	--	--	--	<.041	.11	.240
APR													
18...	--	127	129	157	0	--	--	--	--	--	<.041	.18	.216
18...	--	--	--	--	--	--	--	--	--	--	<.041	.21	.231
MAY													
14...	4.5	160	161	188	4	5.8	<.2	10.0	13	182	<.040	.15	.078
JUN													
13...	--	151	153	187	0	--	--	--	--	--	<.040	.14	.067
JUL													
25...	4.8	166	167	204	0	5.1	<.2	7.9	14	190	<.040	.21	.073
AUG													
14...	--	169	169	206	0	--	--	--	--	--	<.040	.20	E.033
SEP													
06...	--	177	178	218	0	--	--	--	--	--	<.040	.17	E.023

07014500 MERAMEC RIVER NEAR SULLIVAN, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
25...	<.006	<.060	<.018	<.060	--	K5	K7	20	--	--	--	--	--
NOV													
07...	<.006	<.060	<.018	E.036	<10	K1	K8	24	E13	33	--	<8.00	<.11
DEC													
04...	<.006	<.060	<.018	<.060	--	K0	K1	K5	--	--	--	--	--
04...	<.006	<.060	<.018	<.060	--	--	--	--	--	--	--	--	--
JAN													
24...	<.006	<.060	<.018	<.060	<10	K1	K1	K2	12	20	.2	<8.00	<.11
FEB													
15...	<.006	<.060	<.018	<.060	--	K17	22	LA	--	--	--	--	--
MAR													
27...	<.006	<.060	<.018	<.060	--	K1	K1	K9	--	--	--	--	--
APR													
18...	E.003	<.060	<.018	<.060	--	K13	K18	K5	--	--	--	--	--
18...	<.006	<.060	<.018	<.060	--	--	--	--	--	--	--	--	--
MAY													
14...	<.006	<.060	<.020	<.060	<10	K2	K5	K9	14	96	.5	<8.00	<.10
JUN													
13...	E.003	<.060	.059	<.060	--	K13	K10	K11	--	--	--	--	--
JUL													
25...	<.006	<.060	<.020	E.032	<10	27	28	31	11	143	.6	<8.00	<.10
AUG													
14...	<.006	<.060	<.020	<.060	--	26	120	34	--	--	--	--	--
SEP													
06...	<.006	<.060	<.020	<.060	--	K17	K13	31	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
OCT								
25...	--	--	--	--	--	--	--	--
NOV								
07...	<4.7	20	E.06	<1	7.7	<.14	<20	<31
DEC								
04...	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--
JAN								
24...	<4.7	10	E.06	<1	4.7	<.14	--	1
FEB								
15...	--	--	--	--	--	--	--	--
MAR								
27...	--	--	--	--	--	--	--	--
APR								
18...	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--
MAY								
14...	<5.0	20	.10	M	13.8	<.01	9	3
JUN								
13...	--	--	--	--	--	--	--	--
JUL								
25...	<5.0	10	<.08	M	15.9	.11	11	5
AUG								
14...	--	--	--	--	--	--	--	--
SEP								
06...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.
LA-Laboratory Accident.

07015720 BOURBEUSE RIVER NEAR HIGH GATE, MO

LOCATION.--Lat 38°08'49", long 91°34'50", in SW $^1/_4$ NE $^1/_4$ sec.4, T.39 N., R.6 W., Phelps County, Hydrologic Unit 07140103, on downstream side of right bridge pier on State Highway B, 1.8 mi downstream from Lanes Fork, 5.0 mi east of High Gate, and 11.0 mi north of St. James.

DRAINAGE AREA.--135 mi^2.

PERIOD OF RECORD.--July 1965 to current year. Occasional low-flow measurements 1963, 1964.

REVISED RECORDS.--WDR MO-83-1: 1982.

GAGE.--Water-stage recorder. Datum of gage is 802.1 ft above sea level (levels by Missouri State Highway and Transportation Commission). Datum of gage prior to Oct. 1, 1987 was 2 ft higher. Prior to Aug. 17, 1966, nonrecording gage at present site and datum.

REMARKS.--Records fair except for discharges below 5 ft^3/s and estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1957 reached a stage of about 23 ft, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	1.9	3.4	e1.6	39	82	20	9.8	121	3.0	2.3	.47
2	.28	2.7	3.4	e1.6	28	67	69	8.9	265	5.2	1.6	.37
3	.27	3.1	3.1	e2.4	24	57	4620	8.2	1310	9.5	1.2	.35
4	.25	3.5	3.4	e3.6	17	50	2390	7.6	1110	4.6	.97	.38
5	.65	3.3	3.1	e4.3	16	43	793	7.0	402	3.2	.86	.37
6	.50	6.8	2.9	e5.0	15	39	278	7.7	1010	2.4	.75	.34
7	.36	11	2.9	e4.2	14	36	135	9.2	349	2.0	.67	.31
8	.29	11	2.9	e4.9	15	33	78	8.7	128	1.7	.62	.37
9	.28	9.7	2.7	e3.5	65	30	74	7.9	77	1.4	.57	.55
10	.26	16	3.0	e3.9	120	29	1470	6.3	49	1.2	.49	.54
11	.25	11	e2.9	4.6	59	26	619	5.1	36	.90	.45	.42
12	.26	7.7	e3.5	6.1	48	25	236	4.5	28	1.8	.38	.40
13	.30	5.1	e4.7	6.5	41	23	99	3.9	22	2.3	.37	.39
14	.35	4.8	e7.1	21	46	20	62	3.5	18	2.5	.35	.35
15	.45	5.6	e5.3	27	69	27	121	3.3	218	1.7	.35	.31
16	.78	5.0	e4.3	22	93	336	95	3.2	40	1.3	.35	.28
17	14	3.8	e3.8	15	61	168	54	3.7	24	1.1	.36	.37
18	11	3.4	e3.3	11	47	81	41	428	19	.94	.35	.58
19	3.9	3.1	e2.8	8.7	40	56	34	1110	16	1.0	.36	.56
20	2.7	3.0	e4.9	8.2	33	45	30	88	14	1.7	.38	.43
21	1.4	2.8	e3.7	8.1	28	38	28	612	16	2.2	.37	.31
22	1.3	2.7	e3.2	7.5	27	36	25	116	29	2.0	.38	.30
23	1.4	2.9	e4.6	6.6	27	46	21	50	18	1.4	.38	.28
24	1.5	2.6	e3.6	5.1	3660	40	19	34	14	2.1	.44	.28
25	1.4	2.8	e3.1	4.9	2010	34	17	28	11	3.8	.43	.25
26	1.5	3.3	e2.6	4.7	374	29	15	28	9.4	2.1	.42	.24
27	1.6	3.5	e2.4	4.4	158	27	14	24	8.3	2.2	.41	.27
28	1.6	4.2	e2.2	4.2	98	25	12	19	9.9	3.1	.40	.27
29	1.7	4.1	e2.0	60	---	24	11	15	23	3.1	.37	.24
30	1.8	3.8	e1.8	247	---	23	11	22	11	6.5	.43	.22
31	1.9	---	e1.7	78	---	22	---	585	---	3.6	.47	---
MEAN	1.76	5.14	3.36	19.2	260	52.2	383	105	180	2.63	.59	.36
MAX	14	16	7.1	247	3660	336	4620	1110	1310	9.5	2.3	.58
MIN	.25	1.9	1.7	1.6	14	20	11	3.2	8.3	.90	.35	.22
IN.	.02	.04	.03	.16	2.00	.45	3.17	.90	1.49	.02	.01	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2001, BY WATER YEAR (WY)

MEAN	45.6	158	180	148	181	228	267	174	131	48.9	34.2	46.3
MAX	552	799	1213	549	634	747	1191	894	963	546	373	865
(WY)	1987	1986	1983	1969	1985	1984	1994	1995	1985	1998	1982	1993
MIN	.34	.94	1.68	.65	12.4	1.32	1.57	3.88	.95	.25	.19	.14
(WY)	1967	1981	1990	1977	1981	1981	1981	1977	1972	1972	1971	1971

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1965 - 2001	
ANNUAL MEAN	12.5		82.4		136	
HIGHEST ANNUAL MEAN					315	1985
LOWEST ANNUAL MEAN					15.6	2000
HIGHEST DAILY MEAN	462	Feb 18	4620	Apr 3	21000	Dec 3 1982
LOWEST DAILY MEAN	.25	Oct 4,11	.22	Sep 30	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	.28	Oct 8	.25	Sep 24	.00	Several Years
MAXIMUM PEAK FLOW	---		10600	Apr 3	49300	Dec 3 1982
MAXIMUM PEAK STAGE	---		17.28	Apr 3	23.65	Dec 3 1982
INSTANTANEOUS LOW FLOW	---		.22	Sep 25,26,29,30	.00	Several Years
ANNUAL RUNOFF (INCHES)	1.26		8.29		13.65	
10 PERCENT EXCEEDS	22		84		224	
50 PERCENT EXCEEDS	5.1		4.7		20	
90 PERCENT EXCEEDS	.82		.37		.80	

e Estimated

07016400 BOURBEUSE RIVER ABOVE UNION, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 38°25'55", long 91°01'11", in NE $^1/_4$ NE $^1/_4$ SW $^1/_4$ sec.34, T.43 N., R.1 W., Franklin County, Hydrologic Unit 07140103, at bridge on North Bend Drive, 0.5 mi southwest of Union and 5.5 mi upstream from the Bourbeuse River near Union gaging station.

DRAINAGE AREA.--808 mi^2, approximately.

PERIOD OF RECORD.--November 1983 to October 1987, November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
29...	1200	ENVIRONMENTAL	71	13.5	106	8.1	340	5.1	180	33.6	22.4	1.77
JAN												
10...	0955	ENVIRONMENTAL	187	14.5	101	7.0	261	.8	--	--	--	--
MAR												
28...	1100	ENVIRONMENTAL	306	11.6	99	8.1	249	8.8	--	--	--	--
MAY												
17...	1330	ENVIRONMENTAL	123	5.6	72	7.8	328	26.8	150	31.7	18.3	1.76
JUL												
23...	1250	ENVIRONMENTAL	93	5.3	74	7.8	279	31.4	--	--	--	--
SEP												
05...	1540	ENVIRONMENTAL	37	6.6	86	7.8	283	28.3	--	--	--	--
05...	1541	REPLICATE	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
29...	7.0	204	205	250	0	6.7	E.1	19.2	<10	196	<.041	.18	E.030
JAN													
10...	--	146	149	182	0	--	--	--	--	--	<.041	.17	E.024
MAR													
28...	--	81	81	99	0	--	--	--	--	--	<.041	.49	.133
MAY													
17...	6.7	126	126	154	0	8.4	E.1	18.7	11	170	<.040	.43	E.024
JUL													
23...	--	125	126	153	0	--	--	--	--	--	<.040	.48	E.024
SEP													
05...	--	130	132	161	0	--	--	--	--	--	<.040	.28	<.050
05...	--	--	--	--	--	--	--	--	--	--	<.040	.32	<.050

07016400 BOURBEUSE RIVER ABOVE UNION, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
29...	<.006	<.060	<.018	<.060	12	<1	K3	K3	30	83	.4	<8.00	<.11
JAN													
10...	<.006	<.060	<.018	<.060	--	K1	K1	K1	--	--	--	--	--
MAR													
28...	E.004	<.060	<.018	E.050	--	K8	K11	25	--	--	--	--	--
MAY													
17...	<.006	<.060	<.020	E.051	14	K14	24	24	15	130	.9	<8.00	<.10
JUL													
23...	<.006	<.060	<.020	E.054	--	29	33	31	--	--	--	--	--
SEP													
05...	<.006	<.060	<.020	<.060	--	K1	K4	K10	--	--	--	--	--
05...	<.006	<.060	<.020	E.034	--	--	--	--	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV							
29...	<4.7	120	.12	<1	41.1	<.14	3
JAN							
10...	--	--	--	--	--	--	--
MAR							
28...	--	--	--	--	--	--	--
MAY							
17...	<5.0	20	E.06	M	28.6	<.01	7
JUL							
23...	--	--	--	--	--	--	--
SEP							
05...	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07016500 BOURBEUSE RIVER AT UNION, MO

LOCATION.--Lat 38°26'39", long 90°59'41", in SW $^1/_4$, NW $^1/_4$, SE $^1/_4$ sec.26, T.43 N., R.1 W., Franklin County, Hydrologic Unit 07140103, on left bank at upstream side of the bridge on U.S. Highway 50, 800 ft upstream from Flat Creek, 0.5 mi east of Union, 7.0 mi upstream from Birch Creek, and at mile 13.4.

DRAINAGE AREA.--808 mi^2.

PERIOD OF RECORD.--June 1921 to current year. October 1916 to June 1921 gage heights are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 957: 1941. WSP 1147: Drainage area. WSP 1281: 1924.

GAGE.--Water-stage recorder. Datum of gage is 488.58 ft above sea level. Prior to Oct. 1, 1948, datum of all gages 3.00 ft higher. Prior to Oct. 21, 1933, nonrecording gage, at site 30 ft upstream; Oct. 21, 1933, to June 11, 1944, nonrecording gage, at present site.

REMARKS.--Records fair. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 22, 1915, reached a stage of 28.5 ft, present datum, from floodmarks, discharge, about 50,000 ft^3/s, determined from extension of rating curve for main channel based on measurements made since 1921 and study of overflow areas in vicinity of gaging station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	24	52	28	901	1100	239	138	270	92	48	30
2	26	25	56	24	729	892	234	129	596	89	51	26
3	32	22	57	28	555	763	476	121	477	82	50	25
4	47	19	54	29	441	664	4320	113	406	75	48	25
5	73	16	53	28	369	580	9420	106	2230	71	45	25
6	43	81	51	32	319	513	4820	102	1700	73	44	23
7	43	55	49	36	278	455	1540	100	4080	75	44	22
8	40	51	47	32	247	409	989	98	2940	70	45	23
9	31	111	45	30	278	373	767	95	1050	65	61	41
10	28	121	43	30	291	345	1300	93	651	66	60	46
11	34	179	51	32	417	322	2160	89	515	64	49	43
12	30	166	48	36	551	302	2520	87	398	70	46	39
13	24	150	54	45	569	284	1260	83	319	66	43	36
14	20	121	59	73	475	269	829	77	270	204	41	33
15	26	110	56	75	426	306	661	73	298	240	37	31
16	99	107	58	102	442	558	543	71	223	152	37	29
17	100	99	57	127	470	1950	479	72	195	108	38	30
18	58	93	55	140	491	1690	484	89	333	100	37	47
19	50	82	51	137	508	1120	408	95	266	100	35	49
20	58	72	49	135	437	814	350	1350	222	102	32	44
21	86	66	51	139	374	651	309	1120	203	92	31	41
22	111	61	45	92	337	551	278	594	170	82	29	37
23	84	56	45	81	309	480	256	809	144	81	33	35
24	63	53	42	72	1080	428	231	518	127	88	45	32
25	60	68	37	59	6620	387	209	361	117	66	48	31
26	55	66	36	56	10600	358	192	273	110	60	43	30
27	44	61	36	51	5850	346	179	220	107	56	38	28
28	38	58	35	47	1530	311	165	188	105	55	34	28
29	31	57	34	235	---	282	152	164	97	54	31	28
30	26	54	32	433	---	264	144	157	100	52	29	27
31	25	---	32	910	---	250	---	197	---	49	29	---
MEAN	48.7	76.8	47.4	109	1282	581	1197	251	624	87.1	41.3	32.8
MAX	111	179	59	910	10600	1950	9420	1350	4080	240	61	49
MIN	20	16	32	24	247	250	144	71	97	49	29	22
IN.	.07	.11	.07	.16	1.65	.83	1.65	.36	.86	.12	.06	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2001, BY WATER YEAR (WY)

MEAN	300	535	644	648	791	1121	1294	1133	852	335	189	249
MAX	4575	3320	6107	3518	3214	4207	5303	4578	4583	3650	1927	4859
(WY)	1950	1986	1983	1950	1985	1984	1994	1995	1942	1993	1993	1993
MIN	15.0	28.0	35.4	30.7	41.1	42.0	94.9	66.6	33.7	23.9	21.0	19.2
(WY)	1957	1954	1954	1956	1963	1954	1956	1932	1936	1936	1936	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1921 - 2001	
ANNUAL MEAN	273		356		673	
HIGHEST ANNUAL MEAN					1771	1993
LOWEST ANNUAL MEAN					106	1954
HIGHEST DAILY MEAN	22100	May 7	10600	Feb 26	63000	Dec 5 1982
LOWEST DAILY MEAN	15	Sep 23	16	Nov 5	12	Oct 10 1956
ANNUAL SEVEN-DAY MINIMUM	20	Sep 17	22	Oct 30	13	Oct 6 1956
MAXIMUM PEAK FLOW	---		12100	Feb 27	73300	Dec 5 1982
MAXIMUM PEAK STAGE	---		15.69	Feb 27	33.80	Dec 5 1982
INSTANTANEOUS LOW FLOW	---		14	Nov 6	11	Oct 10 1956
ANNUAL RUNOFF (INCHES)	4.61		5.98		11.31	
10 PERCENT EXCEEDS	397		655		1310	
50 PERCENT EXCEEDS	73		82		171	
90 PERCENT EXCEEDS	31		30		41	

07017200 BIG RIVER AT IRONDALE, MO

LOCATION.--Lat 37°49'48", long 90°41'27", in SE $^1/_4$ SW $^1/_4$ sec.15, T.36 N., R.3 E., Washington County, Hydrologic Unit 07140104, on right bank 50 ft upstream from bridge on State Highway U, 0.2 mi upstream from Mill Creek, and 0.8 mi west of Irondale.

DRAINAGE AREA.--175 mi^2.

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 753.28 ft above sea level (Missouri State Highway and Transportation Commission bench mark).

REMARKS.--Records fair except estimated daily discharge, which are poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	9.5	19	24	74	193	43	32	32	17	14	5.2
2	3.1	10	19	25	57	160	46	29	24	14	11	5.1
3	2.6	9.5	18	24	46	135	868	28	24	14	9.8	4.7
4	2.9	9.6	17	25	42	115	1460	25	33	11	8.7	4.4
5	3.2	9.8	17	26	38	96	694	24	31	9.3	7.8	4.3
6	3.5	13	16	26	32	85	392	24	31	8.2	7.0	3.8
7	3.5	15	16	28	30	75	272	24	49	7.5	6.4	3.7
8	3.7	16	15	32	28	68	208	22	36	6.8	6.2	3.6
9	3.9	18	15	34	75	61	164	20	27	5.8	6.2	4.9
10	4.4	19	15	33	296	56	136	19	22	5.3	6.0	5.1
11	4.9	17	18	34	164	52	121	17	18	5.1	38	4.7
12	5.3	17	20	35	115	48	112	16	16	7.1	33	4.7
13	5.4	22	26	37	105	44	94	16	14	8.7	17	4.5
14	6.0	23	26	59	309	39	84	15	13	7.9	12	4.3
15	6.2	20	28	98	476	43	90	14	17	6.9	9.3	4.0
16	12	18	28	77	467	94	89	14	17	6.5	8.0	4.0
17	28	16	33	57	243	88	78	e15	14	6.4	7.0	3.8
18	19	16	30	47	162	74	70	e19	12	5.8	8.2	4.3
19	13	15	30	40	127	65	65	e83	11	5.8	8.3	5.1
20	10	14	30	35	103	59	62	e50	10	7.7	7.5	4.9
21	8.2	13	28	30	88	56	60	e48	11	8.0	6.6	5.0
22	8.4	13	28	27	89	52	58	e37	13	7.4	6.0	4.4
23	7.3	13	26	25	74	53	55	e24	13	6.5	5.4	5.0
24	7.5	14	26	24	943	50	54	e22	11	13	5.2	4.2
25	8.2	29	25	22	2000	46	47	e20	10	34	5.9	4.3
26	8.7	41	25	21	548	43	44	e18	9.6	20	7.1	4.3
27	8.7	37	26	20	336	40	41	e18	11	19	5.8	4.3
28	8.8	29	25	20	244	38	38	e16	10	15	5.0	4.4
29	9.0	24	24	23	---	39	35	14	9.6	19	4.8	4.4
30	8.9	21	23	98	---	40	33	14	9.7	30	4.6	4.5
31	9.5	---	23	100	---	42	---	35	---	19	4.9	---
MEAN	7.64	18.0	23.1	38.9	261	69.3	187	24.9	18.6	11.5	9.44	4.46
MAX	28	41	33	100	2000	193	1460	83	49	34	38	5.2
MIN	2.6	9.5	15	20	28	38	33	14	9.6	5.1	4.6	3.6
IN.	.05	.12	.15	.26	1.55	.46	1.19	.16	.12	.08	.06	.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2001, BY WATER YEAR (WY)

MEAN	59.6	228	260	207	255	320	360	231	119	52.1	55.1	62.4
MAX	339	1147	1027	734	695	867	1329	843	872	262	393	669
(WY)	1971	1994	1983	1969	1985	1978	1994	1990	1985	1981	1970	1993
MIN	6.95	10.5	13.7	11.1	24.9	38.9	39.7	17.3	9.95	4.69	4.27	3.10
(WY)	1981	1981	1977	1981	1977	1981	2000	2000	1980	1980	2000	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1965 - 2001	
ANNUAL MEAN	30.5		54.5		184	
HIGHEST ANNUAL MEAN					449	1985
LOWEST ANNUAL MEAN					33.9	2000
HIGHEST DAILY MEAN	458	Feb 27	2000	Feb 25	21300	Nov 14 1993
LOWEST DAILY MEAN	1.2	Sep 21-23	2.6	Oct 3	1.2	Sep 21 2000
ANNUAL SEVEN-DAY MINIMUM	1.5	Sep 17	3.1	Oct 1	1.5	Sep 17 2000
MAXIMUM PEAK FLOW	---		6840	Feb 24	49100	Nov 14 1993
MAXIMUM PEAK STAGE	---		10.40	Feb 24	28.95	Nov 14 1993
INSTANTANEOUS LOW FLOW	---		2.2	Oct 3	.72	Sep 23 2000
ANNUAL RUNOFF (INCHES)	2.37		4.23		14.26	
10 PERCENT EXCEEDS	68		92		366	
50 PERCENT EXCEEDS	18		19		56	
90 PERCENT EXCEEDS	3.1		4.9		10	

e Estimated

07018100 BIG RIVER NEAR RICHWOODS, MO

LOCATION.--Lat 38°09'34", long 90°42'22", in sec.33, T.40 N., R.3 E., Jefferson County, Hydrologic Unit 07140104, on left bank at downstream side of bridge on State Highway H, 1.8 mi east of Fletcher, 6.8 mi east of Richwoods, and at mile 53.7.

DRAINAGE AREA.--735 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to current year. Prior to May 1949 monthly discharge only, published in WSP 1311. Prior to 1984 published as "Big River near De Soto, Mo" (07018000).

GAGE.--Water-stage recorder. Datum of gage is 523.00 ft above sea level.

REMARKS.--Water-discharge records good. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1915 reached a stage of about 29.4 ft, (former datum) from floodmark, 1.0 mi downstream adjusted to gage site by comparison with recorded flood 5.5 ft lower; discharge, 70,500 ft^3/s, from rating curve extended above 37,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	86	131	111	221	730	199	182	132	125	219	67
2	63	90	126	109	243	608	201	177	144	120	176	65
3	60	91	121	110	219	523	1940	173	150	122	144	62
4	58	93	116	112	198	461	3350	168	190	118	123	59
5	57	89	112	114	184	408	2800	163	184	316	109	58
6	56	93	110	118	171	363	1550	166	219	222	98	57
7	54	105	108	126	161	328	1050	165	274	148	90	56
8	53	116	106	136	154	303	810	160	215	113	87	54
9	53	125	104	139	186	279	666	151	185	96	98	60
10	53	132	103	137	456	261	639	144	173	88	103	71
11	55	135	107	138	512	246	621	138	153	82	103	75
12	58	124	118	141	477	237	522	132	137	85	334	68
13	60	136	148	151	391	227	441	126	124	98	523	64
14	61	142	130	191	417	212	388	122	115	102	261	60
15	68	134	134	246	644	216	380	117	121	88	176	56
16	91	124	161	271	1280	360	380	112	121	82	134	54
17	171	117	152	266	1060	449	347	108	112	79	112	54
18	200	110	148	242	694	400	319	112	106	77	99	57
19	150	104	142	214	530	353	295	141	101	77	100	62
20	132	100	138	191	440	316	278	144	106	83	97	70
21	115	96	135	162	382	293	266	165	180	90	89	70
22	104	95	127	163	355	273	257	223	185	87	83	65
23	97	94	120	157	330	262	244	180	154	80	78	62
24	91	94	119	146	493	247	244	172	125	221	77	61
25	89	127	112	136	4910	234	232	162	111	1140	86	59
26	87	176	111	133	2970	222	224	150	102	522	80	57
27	85	186	112	130	1320	214	211	139	98	938	84	56
28	83	173	114	125	926	204	203	128	107	407	81	55
29	84	159	115	129	---	199	193	122	140	284	79	54
30	84	143	115	156	---	199	188	125	131	439	73	52
31	85	---	112	196	---	202	---	132	---	323	70	---
MEAN	84.7	120	123	158	726	317	648	148	146	221	131	60.7
MAX	200	186	161	271	4910	730	3350	223	274	1140	523	75
MIN	53	86	103	109	154	199	188	108	98	77	70	52
IN.	.13	.18	.19	.25	1.03	.50	.98	.23	.22	.35	.21	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2001, BY WATER YEAR (WY)

MEAN	271	661	812	721	927	1208	1298	1018	566	391	257	310
MAX	1641	4223	4332	3845	2935	2851	5642	3880	3150	2492	1357	4022
(WY)	1950	1986	1983	1950	1985	1998	1994	1990	1985	1951	1950	1993
MIN	47.5	87.9	90.5	84.0	124	123	175	148	110	86.0	69.9	40.6
(WY)	1957	1977	1956	1977	1954	1954	2000	2001	1980	1980	1955	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1949 - 2001	
ANNUAL MEAN	160		236		702	
HIGHEST ANNUAL MEAN					1766	1985
LOWEST ANNUAL MEAN					171	2000
HIGHEST DAILY MEAN	2310	Jun 17	4910	Feb 25	44400	Nov 15 1993
LOWEST DAILY MEAN	44	Sep 7	52	Sep 30	22	Sep 19 1954
ANNUAL SEVEN-DAY MINIMUM	46	Sep 5	54	Oct 5	26	Sep 13 1954
MAXIMUM PEAK FLOW	---		5590	Feb 25	59800	Sep 23 1993
MAXIMUM PEAK STAGE	---		11.23	Feb 25	30.33	Sep 23 1993
INSTANTANEOUS LOW FLOW	---		51	Sep 8,30	20	Sep 19 1954
ANNUAL RUNOFF (INCHES)	2.96		4.36		12.98	
10 PERCENT EXCEEDS	283		412		1310	
50 PERCENT EXCEEDS	118		134		281	
90 PERCENT EXCEEDS	58		65		100	

07018100 BIG RIVER NEAR RICHWOODS, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1963 to July 1975, November 1983 to June 1987, November 1992 to current year. August 1963 to July 1975 published as "Big River near De Soto, Mo." (07018000).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
29...	0930	ENVIRONMENTAL	160	12.3	97	8.1	537	5.5	280	52.3	35.3	1.74
JAN												
09...	1415	ENVIRONMENTAL	140	15.5	107	8.3	355	.7	--	--	--	--
MAR												
28...	0930	ENVIRONMENTAL	204	12.1	102	8.3	470	8.2	--	--	--	--
MAY												
15...	0940	BLANK	--	--	--	--	--	--	--	--	--	--
15...	1000	ENVIRONMENTAL	117	7.4	85	8.2	514	21.8	260	50.3	32.6	1.63
JUL												
23...	1100	ENVIRONMENTAL	79	6.8	92	7.9	485	29.5	--	--	--	--
SEP												
05...	1355	ENVIRONMENTAL	58	7.3	94	7.9	500	27.0	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
29...	9.9	304	305	372	0	11.4	E.1	50.3	<10	321	<.041	.12	.117
JAN													
09...	--	228	231	270	6	--	--	--	--	--	<.041	.16	.237
MAR													
28...	--	192	194	219	9	--	--	--	--	--	<.041	.19	<.047
MAY													
15...	--	--	--	--	--	--	--	--	--	--	<.040	E.04	<.050
15...	7.5	209	209	255	0	10.2	<.2	38.8	<10	282	E.027	.23	E.029
JUL													
23...	--	204	209	255	0	--	--	--	--	--	<.040	.20	E.029
SEP													
05...	--	196	196	239	0	--	--	--	--	--	<.040	.18	<.050

07018100 BIG RIVER NEAR RICHWOODS, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITROGEN, NITRITE DISSOLVED (mg/L as N) (00613)	PHOSPHORUS DISSOLVED (mg/L as P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) (00671)	PHOSPHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEMICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	ARSENIC DISSOLVED (µg/L as As) (01000)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
29...	<.006	<.060	<.018	<.060	<10	<1	K8	K17	8	32	.4	<8.00	.15
JAN													
09...	.012	<.060	<.018	<.060	--	K1	K1	K5	--	--	--	--	--
MAR													
28...	<.006	<.060	<.018	E.031	--	K7	K6	24	--	--	--	--	--
MAY													
15...	<.006	<.060	<.020	<.060	--	--	--	--	--	--	--	--	--
15...	<.006	<.060	E.012	<.060	<10	26	24	33	10	87	.6	<8.00	E.07
JUL													
23...	<.006	<.060	<.020	<.060	--	K13	K14	35	--	--	--	--	--
SEP													
05...	<.006	<.060	<.020	<.060	--	K17	29	K16	--	--	--	--	--

DATE	COPPER, DISSOLVED (µg/L as Cu) (01040)	IRON, DISSOLVED (µg/L as Fe) (01046)	LEAD, DISSOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOVERABLE (µg/L as Pb) (01051)	MANGANESE, DISSOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOVERABLE (µg/L as Hg) (71900)	ZINC, DISSOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOVERABLE (µg/L as Zn) (01092)
NOV								
29...	<4.7	20	2.29	11	14.2	<.14	--	7
JAN								
09...	--	--	--	--	--	--	--	--
MAR								
28...	--	--	--	--	--	--	--	--
MAY								
15...	--	--	--	--	--	<.01	--	--
15...	<5.0	20	4.04	38	25.3	<.01	16	11
JUL								
23...	--	--	--	--	--	--	--	--
SEP								
05...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

07018500 BIG RIVER AT BYRNESVILLE, MO

LOCATION.--Lat 38°21'45", long 90°39'15, in SE $^1/_4$ sec.12, T.42 N., R.3 E., Jefferson County, Hydrologic Unit 07140104, on right bank on downstream side of pier of privately owned bridge at Byrnesville, 4.0 mi upstream from Heads Creek, and at mile 14.1.

DRAINAGE AREA.--917 mi^2.

PERIOD OF RECORD.--October 1921 to current year. Prior to June 1922 monthly discharge only, published WSP 1311.

REVISED RECORDS.--WSP 667: 1927. WSP 877: 1938. WSP 1007: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 433.69 ft above sea level. Prior to Mar. 9, 1940, nonrecording gage at present site and datum.

REMARKS.--Records poor. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 21, 1915, reached a stage of 30.2 ft from floodmarks, discharge, 80,000 ft^3/s, by slope-area measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e115	e112	e175	e144	199	1020	e235	216	173	178	343	79
2	e108	e114	e165	156	225	827	231	220	166	162	248	74
3	e103	e112	e155	e157	259	690	865	212	175	146	200	71
4	e100	e121	e150	154	252	612	3480	206	189	147	168	69
5	e97	e115	e140	156	231	530	4010	200	218	142	145	66
6	e93	e125	e141	157	218	469	3100	198	277	216	126	64
7	e91	e126	e142	168	206	429	2250	195	294	251	114	63
8	e89	e133	130	178	196	384	1860	194	308	192	104	81
9	e89	e142	131	180	363	338	1550	190	265	157	103	420
10	e88	e158	127	177	489	289	1620	184	228	134	110	138
11	e88	e163	130	172	509	279	1280	177	210	118	118	91
12	e89	e174	135	173	569	271	887	172	194	113	107	85
13	e92	e170	142	176	500	266	782	165	176	111	178	84
14	e93	e184	156	200	434	271	777	160	163	109	422	78
15	e94	e189	153	237	457	293	746	154	171	115	284	72
16	e99	e181	155	263	775	451	668	150	152	113	195	68
17	e120	e168	e175	e281	1220	498	605	147	149	103	e168	65
18	e139	e159	e172	e277	973	525	558	158	144	115	e143	71
19	e210	e146	169	e265	713	473	503	278	136	112	e128	76
20	e203	137	162	249	580	412	487	211	136	114	101	71
21	e177	e128	e159	231	476	386	465	201	194	123	100	74
22	e158	126	e155	210	451	356	385	194	221	120	95	80
23	e148	124	e152	199	405	333	331	229	232	112	90	80
24	e139	124	e149	190	578	304	323	225	195	197	119	77
25	e128	146	e148	177	2860	280	301	211	168	274	125	72
26	e119	157	e148	174	5040	271	286	204	149	755	100	71
27	e119	e180	e147	e170	2230	251	270	192	153	544	88	70
28	e114	197	e145	e168	1330	242	266	181	179	744	82	69
29	e112	196	e144	e168	---	261	259	168	149	434	84	69
30	e114	186	e142	e169	---	e250	225	163	173	317	83	67
31	e116	---	e140	172	---	e242	---	188	---	377	89	---
MEAN	118	150	149	192	812	403	987	192	191	221	147	87.2
MAX	210	197	175	281	5040	1020	4010	278	308	755	422	420
MIN	88	112	127	144	196	242	225	147	136	103	82	63
IN.	.15	.18	.19	.24	.92	.51	1.20	.24	.23	.28	.18	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2001, BY WATER YEAR (WY)

MEAN	327	706	866	912	1107	1431	1679	1406	825	485	293	348
MAX	2290	5084	5594	5064	3696	4539	7230	5196	4530	3895	1490	6464
(WY)	1950	1994	1983	1950	1982	1945	1994	1990	1928	1957	1950	1993
MIN	49.7	99.6	103	90.4	139	137	237	177	105	56.4	41.4	48.7
(WY)	1957	1977	1956	1977	1954	1954	2000	1932	1936	1936	1936	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1922 - 2001	
ANNUAL MEAN	285		299		865	
HIGHEST ANNUAL MEAN					1934	1985
LOWEST ANNUAL MEAN					227	1954
HIGHEST DAILY MEAN	13100	May 7	5040	Feb 26	57800	Sep 25 1993
LOWEST DAILY MEAN	60	Sep 14	63	Sep 7	25	Aug 30 1936
ANNUAL SEVEN-DAY MINIMUM	62	Sep 11	69	Sep 1	34	Aug 28 1936
MAXIMUM PEAK FLOW	---		5540	Feb 26	63600	Sep 25 1993
MAXIMUM PEAK STAGE	---		12.18	Feb 26	29.37	Sep 25 1993
INSTANTANEOUS LOW FLOW	---		60	Sep 8	25	Aug 30 1936
ANNUAL RUNOFF (INCHES)	4.23		4.43		12.81	
10 PERCENT EXCEEDS	396		515		1710	
50 PERCENT EXCEEDS	160		172		337	
90 PERCENT EXCEEDS	89		89		117	

e Estimated

07019000 MERAMEC RIVER NEAR EUREKA, MO

LOCATION.--Lat 38°30'20", long 90°35'30", in SE $^1/_4$ sec.32, T.44 N., R.4 E., St. Louis County, Hydrologic Unit 07140102, on right bank, 44 ft upstream from bridge on north access roadway of I-44, 2.0 mi east of Eureka, 3.0 mi downstream from Big River, and at mile 34.1.

DRAINAGE AREA.--3,788 mi^2.

PERIOD OF RECORD.--August 1903 to July 1906, October 1921 to current year. Monthly discharge only for January, February, and March 1904, published in WSP 1311.

REVISED RECORDS.--WSP 877: 1938(M). WSP 977: 1942. WSP 1007: Drainage area. WSP 1281: 1924-25.

GAGE.--Water-stage recorder. Datum of gage is 404.18 ft above sea level. Prior to Jan. 17, 1933, nonrecording gage at site 200 ft upstream at different datum; Jan. 17, 1933, to Sept. 22, 1937, nonrecording gage; Sept. 23, 1937, to Sept. 30, 1971, water-stage recorder at present site at datum 2.00 ft higher.

REMARKS.--Records good. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 22, 1915, reached a stage of 42.2 ft, present datum, from floodmarks, discharge, 175,000 ft^3/s, by slope-area measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	534	591	697	557	1600	5920	1140	1070	1200	786	955	489
2	520	604	674	594	1840	4440	1110	1050	1210	738	893	491
3	522	568	633	530	1670	3630	2150	1020	1460	692	774	470
4	513	562	616	550	1470	3050	7920	997	1340	719	716	465
5	537	540	597	578	1310	2620	15100	993	1690	683	658	473
6	519	578	577	607	1180	2300	19100	1000	4350	683	609	493
7	473	655	573	630	1090	2020	11900	955	4950	749	583	449
8	465	652	573	647	1030	1830	6610	915	6450	717	556	458
9	457	662	558	663	1170	1670	4900	916	3990	668	565	947
10	475	744	564	664	1630	1560	5670	884	2430	643	756	578
11	486	766	567	687	1660	1430	6750	862	1840	636	598	578
12	478	778	554	683	1860	1350	7400	840	1660	581	578	663
13	476	807	543	705	2000	1290	5640	813	1330	585	559	686
14	468	784	597	799	1900	1230	3910	789	1180	619	912	643
15	507	735	646	890	1790	1230	3380	826	1180	692	869	596
16	559	722	666	944	1950	1900	2900	801	1050	756	729	551
17	773	701	604	1020	2730	2270	2560	818	927	690	667	525
18	744	674	628	1120	2930	3290	2290	793	868	677	628	531
19	769	644	595	1100	2640	2890	2080	1580	925	706	567	532
20	859	611	626	1030	2240	2300	1940	2410	857	667	540	546
21	831	579	585	966	1910	1950	1800	3900	845	761	537	527
22	787	568	668	926	1710	1750	1710	2640	875	682	541	526
23	735	565	581	856	1550	1590	1600	2480	909	615	529	522
24	711	564	591	800	2170	1460	1540	2690	901	852	547	503
25	683	602	582	753	8690	1350	1430	2000	891	712	627	481
26	649	630	587	732	18700	1370	1350	1660	854	1110	637	474
27	627	640	596	709	23300	1350	1270	1480	793	906	542	475
28	608	677	583	687	12700	1320	1210	1320	725	1160	526	463
29	597	705	594	719	---	1270	1170	1220	744	971	531	468
30	594	698	580	1060	---	1230	1130	1150	782	853	517	484
31	600	---	568	1190	---	1160	---	1230	---	824	516	---
MEAN	599	654	600	787	3801	2065	4289	1358	1640	746	637	536
MAX	859	807	697	1190	23300	5920	19100	3900	6450	1160	955	947
MIN	457	540	543	530	1030	1160	1110	789	725	581	516	449
IN.	.18	.19	.18	.24	1.05	.63	1.26	.41	.48	.23	.19	.16

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	1413	2500	2978	3201	3882	5199	6270	5286	3627	1920	1190	1418
MAX	12120	15450	23620	17320	14730	13960	22580	18280	18070	12600	5441	18500
(WY)	1950	1986	1983	1950	1982	1978	1927	1995	1945	1951	1993	1993
MIN	236	464	426	374	538	514	945	708	503	318	255	244
(WY)	1957	1957	1956	1956	1954	1954	1954	1932	1936	1936	1936	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	1284		1454		3226	
HIGHEST ANNUAL MEAN					7407	1985
LOWEST ANNUAL MEAN					751	1954
HIGHEST DAILY MEAN	59100	May 8	23300	Feb 27	139000	Dec 6 1982
LOWEST DAILY MEAN	368	Sep 9	449	Sep 7	196	Aug 27 1936
ANNUAL SEVEN-DAY MINIMUM	383	Sep 15	471	Sep 2	209	Aug 26 1936
MAXIMUM PEAK FLOW	---		23900	Feb 27	145000	Dec 6 1982
MAXIMUM PEAK STAGE	---		14.74	Feb 27	42.89	Dec 6 1982
INSTANTANEOUS LOW FLOW	---		425	Sep 5,7	196	Aug 27 1936
ANNUAL RUNOFF (INCHES)	4.62		5.21		11.57	
10 PERCENT EXCEEDS	1750		2450		6770	
50 PERCENT EXCEEDS	752		769		1410	
90 PERCENT EXCEEDS	486		530		530	

07019072 KIEFER CREEK NEAR BALLWIN, MO

LOCATION.--Lat 38°33'19", long 90°33'06", in NW $^1/_4$ SE $^1/_4$ NE $^1/_4$ sec.15, T.44 N., R.4 E.,St. Louis County, Hydrologic Unit 07140102, on left downstream abutment of Castlewood Road bridge, 0.2 mi upstream of Spring Branch, 3.2 mi west of Highway 141, and 1.3 mi upstream of Meramec River.

DRAINAGE AREA.--3.91 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 438.90 ft above sea level.

REMARKS.--Water-discharge poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.7	e.82	2.4	2.9	2.7	.95	1.7	5.1	4.2	.92	1.0
2	1.4	2.7	e3.7	1.9	2.4	2.3	.87	1.3	2.5	3.9	.92	.86
3	e1.3	1.7	e1.7	1.1	2.2	2.0	7.8	1.2	3.1	2.2	.87	.85
4	e1.2	1.6	e.99	1.0	2.0	1.7	4.0	1.1	6.8	2.0	.88	.76
5	e2.4	1.2	e.88	1.3	1.9	1.5	2.1	1.2	4.4	4.9	.87	.90
6	1.8	6.6	e.83	2.2	1.9	1.5	1.6	1.3	8.2	2.7	.85	.89
7	.94	3.7	e.79	3.2	1.7	1.5	1.4	1.1	4.1	2.1	.73	.92
8	.96	1.8	e.77	2.4	1.7	1.5	1.2	1.0	2.2	1.8	3.8	1.1
9	.99	12	e.76	1.5	9.5	1.7	19	1.1	1.6	1.4	4.3	6.3
10	1.0	5.2	e.75	1.4	4.8	1.5	20	1.0	1.3	1.6	3.6	3.1
11	1.2	2.0	e11	1.2	2.8	1.6	8.4	.94	1.1	1.2	1.7	1.6
12	1.2	1.5	.79	1.3	2.2	1.5	7.0	.83	1.0	2.6	1.4	1.3
13	1.2	6.0	e.76	1.8	2.7	1.5	4.4	.83	.95	1.9	1.3	1.1
14	1.1	2.5	1.1	6.9	3.9	1.3	3.4	.84	11	1.5	1.3	1.0
15	4.2	1.9	1.6	3.7	3.3	21	9.5	.85	17	1.4	1.3	1.0
16	21	1.9	2.5	2.2	2.7	13	4.6	.89	5.5	1.4	1.5	1.2
17	18	1.7	2.7	1.8	1.9	4.6	3.3	.81	4.0	1.3	1.1	1.0
18	6.6	1.4	2.1	1.7	1.6	3.1	2.8	25	3.6	3.0	1.0	6.2
19	5.2	1.1	1.8	1.5	1.6	2.4	2.6	17	3.3	3.5	1.0	4.1
20	4.9	3.1	1.6	1.3	1.4	2.1	2.4	5.8	35	4.7	.95	2.2
21	4.1	e2.7	1.4	1.2	1.1	1.7	2.2	9.2	6.4	3.4	.92	2.5
22	4.7	1.8	1.3	1.1	2.0	2.0	2.0	4.2	5.1	2.0	1.0	1.8
23	3.4	1.4	1.1	1.1	1.5	1.7	2.3	3.0	3.2	1.6	1.1	1.8
24	2.9	1.2	1.0	1.1	40	1.6	2.0	2.9	2.5	16	3.6	1.5
25	2.9	e11	1.3	1.1	19	1.4	1.8	3.4	2.3	3.1	2.7	1.7
26	2.9	3.7	1.1	1.4	4.6	1.3	1.7	3.7	1.9	1.9	2.2	1.5
27	2.5	1.6	1.2	1.3	3.5	1.2	1.6	2.3	1.8	1.6	1.3	1.3
28	1.9	1.5	1.0	1.2	3.1	1.2	1.5	1.7	1.7	1.3	1.1	1.1
29	1.8	.88	.96	8.5	---	1.1	1.4	1.6	1.8	1.1	1.1	1.2
30	1.8	1.9	.92	7.7	---	.97	1.4	4.6	1.9	1.0	1.1	1.3
31	1.7	---	.82	4.5	---	.94	---	38	---	1.1	1.1	---
MEAN	3.51	2.97	1.61	2.32	4.64	2.75	4.17	4.53	5.01	2.69	1.53	1.77
MAX	21	12	11	8.5	40	21	20	38	35	16	4.3	6.3
MIN	.94	.88	.75	1.0	1.1	.94	.87	.81	.95	1.0	.73	.76
IN.	1.03	.85	.48	.69	1.24	.81	1.19	1.34	1.43	.79	.45	.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	3.34	4.19	2.34	4.90	8.63	6.95	4.85	6.16	7.75	3.80	2.93	3.69
MAX	6.61	10.7	3.59	10.3	12.5	16.1	7.65	14.5	16.9	8.87	6.29	12.1
(WY)	1997	1997	1997	1999	1999	1998	1998	2000	1998	1998	1998	1996
MIN	1.86	1.35	1.35	1.41	4.64	2.75	1.97	3.12	1.68	1.70	1.53	.82
(WY)	2000	2000	1999	2000	2001	2001	2000	1997	1999	1997	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL MEAN	4.67		3.11		4.81	
HIGHEST ANNUAL MEAN					7.06	1998
LOWEST ANNUAL MEAN					3.11	2001
HIGHEST DAILY MEAN	251	May 7	40	Feb 24	251	May 7 2000
LOWEST DAILY MEAN	.61	Feb 12	.73	Aug 7	.61	Feb 12 2000
ANNUAL SEVEN-DAY MINIMUM	.73	Feb 6	.82	Dec 4	.70	Sep 21 1999
MAXIMUM PEAK FLOW	---		923[a]	Jun 20	2180[a]	Sep 6 1996
MAXIMUM PEAK STAGE	---		6.05	Jun 20	8.08	Sep 6 1996
INSTANTANEOUS LOW FLOW	---		.73	Aug 7	.22	Sep 20 2000
ANNUAL RUNOFF (INCHES)	16.27		10.80		16.73	
10 PERCENT EXCEEDS	6.6		5.6		9.3	
50 PERCENT EXCEEDS	1.9		1.7		2.2	
90 PERCENT EXCEEDS	.84		.95		1.0	

e Estimated
[a] From rating extended above 251 ft^3/s.

07019072 KIEFER CREEK NEAR BALLWIN, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1996 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
DEC												
18...	1400	ENVIRONMENTAL	1.6	8.9	84.9	7.1	486	13.0	561	180	27.0	195
FEB												
09...	1027	ENVIRONMENTAL	40	10.9	99.2	7.4	519	11.4	151	48.0	7.60	119
28...	0750	ENVIRONMENTAL	4.1	9.2	83.8	6.8	1190	12.0	297	94.0	15.0	181
APR												
09...	2237	ENVIRONMENTAL	274	9.3	97.3	7.5	174	18.0	108	34.0	5.60	62
MAY												
30...	1300	ENVIRONMENTAL	2.6	8.7	85.2	7.2	920	13.7	322	101	17.0	218
AUG												
28...	1130	ENVIRONMENTAL	1.1	8.8	88.2	7.0	836	14.3	296	92.0	16.0	244

DATE	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2) (00405)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)
DEC													
18...	197	240	0	1300	9	.24	<.01	1.9	<.01	.050	.040	28.0	28
FEB													
09...	121	147	0	--	1200	2.1	.02	1.2	<.01	.130	.990	10.1	16
28...	188	229	0	220	6	.24	.02	2.3	<.01	.060	.070	55.5	<5
APR													
09...	62	76	0	--	5000	9.0	.45	.8	.05	.390	2.70	4.2	38
MAY													
30...	220	268	0	--	4	.20	<.01	2.3	<.01	.040	.030	27.9	<5
AUG													
28...	246	300	0	--	2	<.20	<.01	1.9	<.01	.030	.030	53.0	10

DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)
DEC													
18...	69	150	360	8	<1.0	<1.00	<1.00	3.0	1.2	20	<1.00	26.0	<.10
FEB													
09...	5600	5600	30000	1900	3.1	<1.00	<1.00	9.0	7.4	1700	9.00	350	<.10
28...	88	132	840	25	<1.0	<1.00	<1.00	3.0	<1.0	20	<1.00	29.0	<.10
APR													
09...	590000	K300000	380000	5700	2.0	<1.00	<1.00	7.0	16.0	6700	28.0	1200	<.10
MAY													
30...	K41	K59	220	12	<1.0	<1.00	<1.00	<1.0	<1.0	M	<1.00	14.0	<.10
AUG													
28...	55	140	240	11	<1.0	<1.00	<1.00	<1.0	<1.0	M	<1.00	14.0	<.10

07019072 KIEFER CREEK NEAR BALLWIN, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	2,4,6-TRI-CHLORO-PHENOL TOTAL (µg/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (µg/L) (34601)	2,4,-DI-NITRO-PHENOL TOTAL (µg/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (µg/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (µg/L) (34626)
DEC													
18...	1.10	<1.0	<1.0	24	--	--	--	--	--	--	--	--	--
FEB													
09...	6.40	<1.0	<1.0	66	2	M	<1	<1	<2	<2	<20	<1	<1
28...	<1.00	<1.0	<1.0	45	--	--	--	--	--	--	--	--	--
APR													
09...	14.0	<1.0	<1.0	94	3	M	<1	<1	<2	M	<20	<1	<1
MAY													
30...	3.50	<1.0	<1.0	47	--	--	--	--	--	--	--	--	--
AUG													
28...	<1.00	<1.0	<1.0	25	--	--	--	--	--	--	--	--	--

DATE	2-CHLORO-NAPH-THALENE TOTAL (µg/L) (34581)	2-CHLORO-PHENOL TOTAL (µg/L) (34586)	2-NITRO-PHENOL TOTAL (µg/L) (34591)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (µg/L) (34631)	4,6-DINITRO -ORTHO-CRESOL TOTAL (µg/L) (34657)	4-BROMO-PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4-NITRO-PHENOL TOTAL (µg/L) (34646)	ACE-NAPHTH-ENE TOTAL (µg/L) (34205)	ACE-NAPHTH-YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA-CENE TOTAL (µg/L) (34220)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<1	<1	<1	<1	E1	<1	<1	M	M	M	<.013	M	<2
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
09...	<1	<1	M	<1	<2	<1	<1	5	M	M	<.013	M	<2
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZI-DINE TOTAL (µg/L) (39120)	BENZO-A-PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR-AN-THENE TOTAL (µg/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA-CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO-[GHI]-PERY-LENE TOTAL (µg/L) (34521)	BIS(2-CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2-CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (µg/L) (39100)	CARBO-PHENO-THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<40	M	E2	M	M	E1	<1	<1	<1	<9	<.02	<.1	<.01
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
09...	<40	E3	3	E1	E2	E2	<1	<1	<1	<9	<.02	<.1	<.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CHRY-SENE TOTAL (µg/L) (34320)	CYCLOPE NTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)	DI-N-OCTYL PHTHAL-ATE TOTAL (µg/L) (34596)	DISUL-FOTON UNFILT RECOVER (µg/L) (39011)	ENDO-SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	E1	<1	<.02	<.02	<.006	<2	<2	<2	<1	<.03	<.015	<.014	<.01
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
09...	3	<1	<.02	.29	<.006	M	M	M	M	<.07	<.015	<.014	<.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

07019072 KIEFER CREEK NEAR BALLWIN, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	FLUOR-ANTHENE TOTAL (µg/L) (34376)	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (µg/L) (34403)	ISO-PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA-THION, TOTAL (µg/L) (39530)	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	4	M	<.01	<.009	<.014	<1	E2	M	<.006	<.03	<.01	<.01	<.01
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
09...	5	M	<.01	<.009	<.014	<1	E2	M	<.006	<.03	<.01	<.01	<.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	N-BUTYL BENZYL PHTHAL-ATE TOTAL (µg/L) (34292)	N-NITRO-SODI-METHYL-AMINE TOTAL (µg/L) (34438)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (µg/L) (34428)	N-NITRO-SODI-PHENYL-AMINE TOTAL (µg/L) (34433)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARA-CHLORO-META CRESOL TOTAL (µg/L) (34452)	PARA-THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PHENAN-THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	3	<2
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
09...	M	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	3	M
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX-APHENE, TOTAL (µg/L) (39400)	1,1,1-TRI-CHLORO-ETHANE TOTAL (µg/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (µg/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (µg/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<.02	3	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
09...	<.02	4	<1	<.10	<.10	<.10	<.2	<.10	<.10	M	<.10	<.10	<.10
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZENE TOTAL (µg/L) (34030)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (µg/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (µg/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µg/L) (50004)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<.10	<.20	<.20	<.10	E.1	.25	<.10	.22	<.2	<.2	<1.0	<.2	<.10
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
09...	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

07019072 KIEFER CREEK NEAR BALLWIN, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<.2	<.10	<.10	<1.3	<.2	<.2	<.20	E.2	<.10	<.10	<.1	<.10	<.10
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
09...	<.2	<.10	<.10	<1.3	.2	<.2	E.15	E.2	.10	<.10	<.1	.14	<.10
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC		
18...	--	--
FEB		
09...	<.20	<.2
28...	--	--
APR		
09...	<.20	<.2
MAY		
30...	--	--
AUG		
28...	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07019090 WILLIAMS CREEK NEAR PEERLESS PARK, MO

LOCATION.--Lat 38°32'04", long 90°30'51", St. Louis County, Hydrologic Unit 07140102, on left downstream wingwall of Meramec Station Road bridge, 0.1 mi south of Interstate 44, 1.01 mi west of Highway 141, and 0.6 mi upstream of Meramec River.

DRAINAGE AREA.--7.62 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 415.75 ft above sea level.

REMARKS.--Water-discharge records fair except estimated daily discharges, those below 1 ft^3/s and above 600 ft^3/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.84	.97	1.2	e1.6	2.4	5.2	2.5	2.5	2.6	1.9	1.6	1.0
2	.79	.95	1.2	e1.4	2.0	4.7	2.3	2.4	1.6	2.3	1.4	.80
3	.66	.92	1.2	e1.0	1.9	4.1	16	2.2	1.4	1.4	1.4	.73
4	.65	.83	1.2	e.94	1.8	3.7	18	1.9	3.4	2.5	1.4	.86
5	.78	.81	1.2	e1.1	1.7	3.2	12	1.8	3.4	2.0	1.3	.99
6	.96	1.2	1.1	e1.4	1.6	2.8	9.2	1.9	3.1	1.6	1.1	.76
7	.67	2.0	1.1	e2.6	1.4	2.6	7.5	1.7	2.7	1.3	1.1	.86
8	.60	1.3	1.1	e2.2	1.5	2.6	6.2	1.5	1.8	1.2	.92	5.0
9	.69	3.2	1.1	e1.4	11	2.4	8.3	1.5	1.5	1.1	.88	11
10	.82	4.5	1.1	1.3	9.4	2.3	20	1.4	1.4	1.1	1.6	3.6
11	.79	2.1	e3.5	1.3	5.5	2.3	14	1.4	1.3	1.0	1.7	2.3
12	.71	1.8	e1.2	1.3	4.4	2.2	10	1.3	1.3	.97	1.4	1.8
13	.66	3.7	e1.0	1.6	3.7	2.2	7.8	1.2	1.1	1.1	1.1	1.4
14	.70	2.5	e1.1	4.5	4.7	2.1	6.8	1.2	1.7	.94	.99	1.2
15	1.5	1.9	e1.4	4.2	5.1	4.7	13	1.2	4.7	.85	.81	1.1
16	9.7	1.7	e1.7	2.9	4.4	18	12	1.3	2.2	.85	.73	1.6
17	8.7	1.5	e2.0	2.3	3.7	9.8	8.8	1.3	1.5	.85	.72	1.1
18	2.9	1.3	e1.7	2.1	3.3	6.8	7.4	1.4	1.4	.93	.63	2.2
19	1.9	1.2	e1.4	1.9	3.5	5.7	6.7	2.1	1.2	1.2	.63	2.3
20	1.5	1.2	e1.2	1.6	3.2	5.1	6.0	1.5	1.7	2.8	.63	1.5
21	1.3	1.1	e1.1	1.5	2.5	4.5	5.2	2.1	4.6	2.4	.69	1.2
22	1.2	1.1	e1.1	1.4	2.4	4.0	4.6	1.6	3.5	1.4	.73	.99
23	1.1	1.0	e1.0	1.3	2.3	3.8	4.4	1.3	2.0	1.2	.75	.79
24	1.3	.96	e.94	1.2	9.4	3.5	3.9	1.3	1.6	50	1.1	.77
25	1.2	3.4	e1.3	1.1	23	3.2	3.5	1.3	1.3	15	1.9	.69
26	1.1	3.8	e1.1	1.1	11	3.0	3.3	1.5	1.2	6.1	2.8	.62
27	1.1	2.1	e1.2	1.2	7.5	2.9	3.2	1.3	1.1	3.6	2.0	.65
28	1.1	1.7	e1.0	1.1	5.8	2.8	2.9	1.1	1.1	2.7	1.4	.65
29	1.1	1.5	e.98	1.7	---	2.9	2.6	1.1	1.0	2.4	1.2	.65
30	1.0	1.3	e.95	4.8	---	2.7	2.5	1.5	.99	2.0	1.1	.64
31	1.0	---	e.86	3.5	---	2.5	---	6.2	---	1.7	1.1	---
MEAN	1.58	1.78	1.27	1.89	5.00	4.14	7.69	1.71	1.98	3.75	1.19	1.66
MAX	9.7	4.5	3.5	4.8	23	18	20	6.2	4.7	50	2.8	11
MIN	.60	.81	.86	.94	1.4	2.1	2.3	1.1	.99	.85	.63	.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	1.15	1.51	1.30	4.76	10.7	10.8	8.37	6.16	7.27	3.84	2.78	1.28
MAX	1.58	2.02	1.92	11.1	21.5	30.5	17.8	8.84	16.7	8.27	5.75	1.75
(WY)	2001	1999	1998	1999	1999	1998	1998	1999	1998	1998	1998	2000
MIN	.75	.62	.91	.76	1.96	1.69	1.25	1.71	1.98	2.24	1.19	.56
(WY)	2000	2000	1999	2000	2000	2000	2000	2001	2001	1997	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	2.79		2.78		4.99	
HIGHEST ANNUAL MEAN					9.20	1998
LOWEST ANNUAL MEAN					2.61	2000
HIGHEST DAILY MEAN	111	May 7	50	Jul 24	208	Mar 20 1998
LOWEST DAILY MEAN	.56	Jan 1	.60	Oct 8	.53	Several Days 1999,2000
ANNUAL SEVEN-DAY MINIMUM	.61	Jan 11	.67	Sep 24	.54	Sep 22 1999
MAXIMUM PEAK FLOW	---		541[a]	Jul 24	583[a]	May 7 2000
MAXIMUM PEAK STAGE	---		9.04	Jul 24	9.31	May 7 2000
INSTANTANEOUS LOW FLOW	---		.56	Sep 25,26	.53	Sep 18,Oct 1,2,6-8 1999
10 PERCENT EXCEEDS	4.4		5.6		11	
50 PERCENT EXCEEDS	1.3		1.5		1.5	
90 PERCENT EXCEEDS	.68		.85		.69	

e Estimated
[a] From rating extended above 305 ft^3/s.

07019090 WILLIAMS CREEK NEAR PEERLESS PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
DEC												
19...	1010	ENVIRONMENTAL	1.5	13.3	110	7.5	895	7.1	280	87.0	16.0	182
FEB												
24...	1902	ENVIRONMENTAL	18	9.4	88	7.1	633	12.1	200	63.0	10.0	162
27...	1125	ENVIRONMENTAL	7.3	10.2	92	7.0	421	11.1	140	45.0	7.30	110
MAY												
29...	1040	ENVIRONMENTAL	1.1	7.3	75	7.7	630	16.1	230	72.0	13.0	189
29...	1045	BLANK	--	--	--	--	--	--	--	.03	<.030	--
JUN												
14...	2348	ENVIRONMENTAL	11	7.8	93	7.6	203	22.7	54	18.0	2.20	54
AUG												
28...	0850	ENVIRONMENTAL	1.5	9.0	93	7.2	593	15.9	230	69.0	13.0	187

DATE	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2) (00405)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)
DEC													
19...	185	226	0	130	6	.25	<.01	3.6	<.01	.240	.230	12	<5
FEB													
24...	166	203	0	--	260	1.2	.05	1.9	.02	.200	.370	27	9
27...	110	135	--	42.0	6	.24	.02	1.7	<.01	.120	.120	20	<5
MAY													
29...	189	231	0	--	10	.30	.01	2.3	<.01	.220	.210	7.5	27
29...	--	--	--	--	2	<.20	<.01	<.02	<.01	<.010	<.020	--	<5
JUN													
14...	55	66	0	--	235	1.8	.17	.9	.06	.270	.460	2.6	31
AUG													
28...	188	230	0	--	2	<.20	<.01	3.6	<.01	.220	.220	23	10

DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)
DEC													
19...	K12	K32	42	15	<1.0	<1.00	<1.00	2.0	1.2	10	<1.00	11.0	<.10
FEB													
24...	K100	K120	K440	180	<1.0	<1.00	<1.00	3.0	2.3	120	<1.00	23.0	<.10
27...	--	--	--	69	<1.0	<1.00	<1.00	2.0	<1.0	60	<1.00	7.8	<.10
MAY													
29...	4400	2300	1100	12	<1.0	<1.00	<1.00	<1.0	1.1	M	<1.00	15.0	<.10
29...	--	--	--	7	<1.0	<1.00	<1.00	<1.0	<1.0	<2	<1.00	<1.0	<.10
JUN													
14...	15000	22000	64000	896	5.5	<1.00	<1.00	1.8	8.1	700	2.90	36.0	<.10
AUG													
28...	200	240	520	9	<1.0	<1.00	<1.00	<1.0	1.6	M	<1.00	16.0	<.10

07019090 WILLIAMS CREEK NEAR PEERLESS PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	2,4,6-TRI-CHLORO-PHENOL TOTAL (µg/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (µg/L) (34601)	2,4,-DI-NITRO-PHENOL TOTAL (µg/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (µg/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (µg/L) (34626)
DEC													
19...	1.20	<1.0	<1.0	19	--	--	--	--	--	--	--	--	--
FEB													
24...	1.60	<1.0	<1.0	190	<1	<1	<1	<1	<2	<2	<20	<1	<1
27...	<1.00	<1.0	<1.0	110	--	--	--	--	--	--	--	--	--
MAY													
29...	2.80	<1.0	<1.0	222	--	--	--	--	--	--	--	--	--
29...	<1.00	<1.0	<1.0	3	--	--	--	--	--	--	--	--	--
JUN													
14...	2.40	<1.0	<1.0	53	2	LA	LA	LA	LA	LA	LA	LA	LA
AUG													
28...	1.20	<1.0	<1.0	37	--	--	--	--	--	--	--	--	--

DATE	2-CHLORO-NAPH-THALENE TOTAL (µg/L) (34581)	2-CHLORO-PHENOL TOTAL (µg/L) (34586)	2-NITRO-PHENOL TOTAL (µg/L) (34591)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (µg/L) (34631)	4,6-DINITRO -ORTHO-CRESOL TOTAL (µg/L) (34657)	4-BROMO-PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4-NITRO-PHENOL TOTAL (µg/L) (34646)	ACE-NAPHTH-ENE TOTAL (µg/L) (34205)	ACE-NAPHTH-YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA-CENE TOTAL (µg/L) (34220)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	<1	<1	<1	<1	<2	<1	<1	<1	M	<1	<.013	M	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	LA	LA	LA	LA	LA	LA	LA	LA	LA	LA	LA	LA	LA
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZI-DINE TOTAL (µg/L) (39120)	BENZO-A-PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR-AN-THENE TOTAL (µg/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA-CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO-[GHI]-PERY-LENE TOTAL (µg/L) (34521)	BIS(2-CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2-CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (µg/L) (39100)	CARBO-PHENO-THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	<40	M	M	M	M	M	<1	<1	<1	<9	<.02	<.1	<.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	LA	LA	LA	LA	LA	LA	LA	LA	LA	LA	<.02	LA	<.01
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CHRY-SENE TOTAL (µg/L) (34320)	CYCLOPE NTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)	DI-N-OCTYL PHTHAL-ATE TOTAL (µg/L) (34596)	ENDO-SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)	FLUOR-ANTHENE TOTAL (µg/L) (34376)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	M	<1	<.04	<.04	<.006	<2	<2	<2	<1	<.015	<.014	<.01	M
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	LA	LA	<.02	<.02	LA	LA	LA	LA	LA	LA	LA	<.01	LA
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

07019090 WILLIAMS CREEK NEAR PEERLESS PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	FLUORENE TOTAL (µg/L) (34381)	FONOFOS (DYFONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTACHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTACHLOR, TOTAL (µg/L) (39410)	HEXACHLOROBENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (µg/L) (34403)	ISOPHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALATHION, TOTAL (µg/L) (39530)	METHOXYCHLOR, TOTAL (µg/L) (39480)	METHYL PARATHION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)	N-BUTYL BENZYL PHTHALATE TOTAL (µg/L) (34292)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	M	<.01	<.009	<.014	<1	M	M	<.006	<.06	<.01	<.01	<.01	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	LA	<.01	LA	LA	LA	LA	LA	LA	<.03	LA	<.02	LA	LA
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	N-NITROSODIMETHYLAMONE TOTAL (µg/L) (34438)	NITROSODI-N-PROPYLAMINE TOTAL (µg/L) (34428)	N-NITROSODIPHENYLAMINE TOTAL (µg/L) (34433)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARACHLOROMETA CRESOL TOTAL (µg/L) (34452)	PARATHION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTACHLOROPHENOL TOTAL (µg/L) (39032)	PHENANTHRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	M	<2	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	LA	LA	LA	LA	LA	LA	LA	<.01	LA	LA	LA	LA	<.02
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PYRENE TOTAL (µg/L) (34469)	TOXAPHENE, TOTAL (µg/L) (39400)	1,1,1-TRICHLOROETHANE TOTAL (µg/L) (34506)	1,1-DICHLOROETHANE TOTAL (µg/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (µg/L) (34501)	1,2-DICHLOROETHANE TOTAL (µg/L) (32103)	1,2-DICHLOROPROPANE TOTAL (µg/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (µg/L) (34546)	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	M	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	LA	LA	<.10	<.10	<.10	<.2	<.10	<.10	LA	<.10	<.10	<.10	<.10
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

07019090 WILLIAMS CREEK NEAR PEERLESS PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	CIS-1,2 BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DI-ISO-HEXA-CHLORO-WATER UNFLTRD RECOVER (µg/L) (34396)	ETHANE ETHER ETHYL WATER UNFLTRD RECOVER (µg/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µg/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10	<.2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	LA	<.2	<.10	<.2
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ETHYL-BENZENE TOTAL (µg/L) (34371)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC														
19...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB														
24...	<.10	<.10	<1.3	<.2	<.2	<.20	<1.2	<.10	<.10	<.1	<.10	<.10	<.20	<.2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY														
29...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN														
14...	<.10	<.10	LA	<.2	<.2	<.20	LA	<.10	<.10	<.1	<.10	<.10	<.20	<.2
AUG														
28...	--	--	--	--	--	--	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.
LA-Laboratory Accident.

07019120 FISHPOT CREEK AT VALLEY PARK, MO

LOCATION.--Lat 38°33'07", long 90°30'41", in NE $^1/_4$ NE $^1/_4$ SE $^1/_4$ sec.13, T.44 N., R.4 E., St. Louis County, Hydrologic Unit 07140102, gage on right downstream abutment of Hanna Road bridge, 4.4 mi west of Interstate 270, 1.0 mi north of Interstate 44, and 1.7 mi upstream of confluence of Meramec River.

DRAINAGE AREA.--9.58 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 422.02 ft above sea level.

REMARKS.--Water-discharge records fair except for estimated daily discharges and those above 2,000 ft^3/s, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 23, 1973 reached a stage of 9.06 ft, former datum, discharge 1,580 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.02	.12	e.64	.29	.34	.02	.03	.43	30	.01	.00
2	.12	.07	.15	.16	.24	.28	.03	.00	.21	1.1	.00	.00
3	.06	.05	.11	e.06	.20	.24	12	.00	3.9	.28	.00	.00
4	.04	.03	.08	e.03	.14	.24	.36	.00	3.2	.24	.00	5.7
5	.19	.02	.06	e.20	.12	.22	.15	.00	.38	.24	.00	1.1
6	.10	.23	.05	e.46	.10	.21	.11	.00	15	.13	.00	.25
7	.03	.12	.05	e1.1	.08	.18	.07	.00	.26	.07	.00	.18
8	.01	.06	.03	e.39	.07	.13	.05	.00	.14	.05	.00	20
9	.01	45	.02	e.17	18	.14	96	.00	.11	.04	1.1	27
10	.00	1.1	.02	.10	.49	.12	23	.00	.08	.01	.53	.39
11	.00	.35	e22	e.07	.25	.11	1.9	.00	.05	.00	.19	.17
12	.00	.37	.32	.05	.18	.10	1.2	.00	.04	.12	.15	.12
13	.01	1.0	e.26	.08	.20	.11	.58	.00	.01	.06	.11	.06
14	.01	.33	e.23	.90	.21	.12	.45	.00	2.6	.00	.05	.03
15	.69	.21	.28	.40	.16	70	25	.00	50	.00	.01	.01
16	72	.17	e.88	.25	.12	8.9	.50	.00	.12	.00	.01	.00
17	5.2	.14	e.46	.20	.12	.42	.35	.00	.06	.00	.00	.00
18	.40	.12	e.31	.16	.10	.23	.29	80	.04	5.6	.00	18
19	.25	.10	e.18	.12	.08	.16	.27	14	.02	.48	.00	.31
20	.21	.09	e.14	.12	.07	.14	.23	.40	144	35	.00	.11
21	.20	.07	e.11	.10	.06	.13	.20	5.4	2.2	.44	.00	.10
22	.22	.06	e.09	.08	.07	.14	.19	.34	.58	.24	.00	.05
23	.17	.06	e.07	.06	.07	.09	.26	.24	.28	.18	.00	.02
24	.13	.05	e.05	.04	149	.07	.17	.17	.22	55	.25	.00
25	.11	.54	e.19	.04	8.6	.07	.13	.20	.17	.50	.31	.00
26	.09	.32	e.10	.05	.75	.07	.11	.16	.13	.31	.11	.00
27	.07	.27	.16	.05	.56	.07	.09	.09	.07	.21	.02	.00
28	.05	.20	e.10	.04	.44	.06	.05	.04	.01	.15	.00	.00
29	.04	.17	e.09	7.0	---	.06	.03	.01	.00	.11	.00	.00
30	.03	.14	e.07	1.8	---	.04	.01	18	.00	.08	.00	.00
31	.03	---	e.06	.56	---	.03	---	81	---	.04	.00	---
MEAN	2.60	1.72	.87	.50	6.46	2.68	5.46	6.45	7.48	4.22	.092	2.45
MAX	72	45	22	7.0	149	70	96	81	144	55	1.1	27
MIN	.00	.02	.02	.03	.06	.03	.01	.00	.00	.00	.00	.00
IN.	.31	.20	.10	.06	.70	.32	.64	.78	.87	.51	.01	.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	1.55	5.56	.86	4.79	14.3	6.70	3.70	9.24	13.0	4.42	2.50	3.59
MAX	3.21	20.9	1.44	8.95	19.0	21.5	6.23	28.2	31.5	12.5	4.95	16.3
(WY)	1997	1997	1998	1999	2000	1998	1998	2000	2000	1998	1998	1996
MIN	.42	.17	.16	.22	6.46	.78	.26	1.48	.80	.83	.092	.069
(WY)	1999	2000	1999	2000	2001	2000	2000	1997	1999	1997	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL MEAN	7.77		3.38		5.60	
HIGHEST ANNUAL MEAN					7.88	1998
LOWEST ANNUAL MEAN					3.38	2001
HIGHEST DAILY MEAN	710	Jun 24	149	Feb 24	710	Jun 24 2000
LOWEST DAILY MEAN	.00	Several Days	.00	Many Days	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 21,Sep 4	.00	At Times	.00	At Times
MAXIMUM PEAK FLOW	---		2430[a]	Jun 20	5320[a]	Jun 24 2000
MAXIMUM PEAK STAGE	---		7.24	Jun 20	10.08	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Many Years
ANNUAL RUNOFF (INCHES)	11.04		4.79		7.94	
10 PERCENT EXCEEDS	2.8		1.4		4.7	
50 PERCENT EXCEEDS	.20		.12		.22	
90 PERCENT EXCEEDS	.02		.00		.00	

e Estimated
[a] From rating extended above 995 ft^3/s.

07019120 FISHPOT CREEK AT VALLEY PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1996 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
DEC												
18...	1510	ENVIRONMENTAL	.31	9.3	69	7.3	994	2.6	290	93.0	14.0	157
FEB												
09...	1112	ENVIRONMENTAL	119	9.8	85	7.3	911	9.4	170	54.0	8.10	107
27...	1030	ENVIRONMENTAL	.62	8.7	69	7.3	739	6.6	160	50.0	7.50	129
27...	1031	REPLICATE	--	--	--	--	--	--	160	52.0	7.80	--
APR												
09...	2312	ENVIRONMENTAL	1960	9.0	92	7.9	176	16.7	170	52.0	9.70	87
MAY												
30...	1400	ENVIRONMENTAL	.04	4.1	45	7.4	578	19.3	180	59.0	8.60	151
AUG												
28...	1240	ENVIRONMENTAL	.01	4.0	51	7.0	507	26.3	180	60.0	8.40	142

DATE	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2) (00405)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)
DEC													
18...	159	194	0	160	6	<.20	<.01	.4	<.01	.110	.130	14	17
FEB													
09...	114	139	0	--	590	1.4	.02	1.0	<.01	.130	.580	10	13
27...	132	161	0	120	8	.61	.02	1.5	<.01	.130	.150	13	8
27...	--	--	--	120	7	.51	.02	1.5	<.01	.130	.150	--	<5
APR													
09...	87	106	0	--	6200	10	.39	.8	.07	.520	3.30	2.1	45
MAY													
30...	152	185	0	--	6	.30	<.01	.1	<.01	.120	.150	11	6
AUG													
28...	142	173	0	--	2	<.20	.01	.2	<.01	.160	.190	25	9

DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)
DEC													
18...	K11	K11	K16	7	<1.0	<1.00	<1.00	2.0	<1.0	40	<1.00	55.0	<.10
FEB													
09...	K3700	6800	22000	1000	2.0	<1.00	<1.00	6.0	4.1	1000	4.00	200	<.10
27...	K50	164	357	90	<1.0	<1.00	<1.00	2.0	1.5	80	<1.00	36.0	<.10
27...	--	--	--	86	<1.0	<1.00	<1.00	<1.0	1.6	80	<1.00	37.0	<.10
APR													
09...	66000	54000	100000	8300	2.5	2.00	1.00	10.0	26.0	12500	55.0	2500	<.10
MAY													
30...	K220	560	1100	7	1.2	<1.00	<1.00	<1.0	<1.0	M	<1.00	221	<.10
AUG													
28...	73	140	36	9	<1.0	<1.00	<1.00	<1.0	9.7	M	<1.00	165	<.10

07019120 FISHPOT CREEK AT VALLEY PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	2,4,6-TRI-CHLORO-PHENOL TOTAL (µg/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (µg/L) (34601)	2,4,-DI-NITRO-PHENOL TOTAL (µg/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (µg/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (µg/L) (34626)
DEC													
18...	<1.00	<1.0	<1.0	50	--	--	--	--	--	--	--	--	--
FEB													
09...	4.40	<1.0	<1.0	51	<1	M	<1	<1	<2	<2	<20	<1	<1
27...	<1.00	<1.0	<1.0	100	--	--	--	--	--	--	--	--	--
27...	<1.00	<1.0	<1.0	71	--	--	--	--	--	--	--	--	--
APR													
09...	22.0	<1.0	<1.0	140	<1	M	<1	<1	<2	M	<20	<1	<1
MAY													
30...	2.40	<1.0	<1.0	33	--	--	--	--	--	--	--	--	--
AUG													
28...	<1.00	<1.0	<1.0	25	--	--	--	--	--	--	--	--	--

DATE	2-CHLORO-NAPH-THALENE TOTAL (µg/L) (34581)	2-CHLORO-PHENOL TOTAL (µg/L) (34586)	2-NITRO-PHENOL TOTAL (µg/L) (34591)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (µg/L) (34631)	4,6-DINITRO -ORTHO-CRESOL TOTAL (µg/L) (34657)	4-BROMO-PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4-NITRO-PHENOL TOTAL (µg/L) (34646)	ACE-NAPHTH-ENE TOTAL (µg/L) (34205)	ACE-NAPHTH-YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA-CENE TOTAL (µg/L) (34220)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<1	<1	<1	<1	<2	<1	<1	<1	M	M	<.013	M	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
09...	<1	<1	M	E1	<2	<1	<1	4	M	M	<.013	M	<2
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZI-DINE TOTAL (µg/L) (39120)	BENZO-A-PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR-AN-THENE TOTAL (µg/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA-CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO-[GHI]-PERY-LENE TOTAL (µg/L) (34521)	BIS(2-CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2-CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (µg/L) (39100)	CARBO-PHENO-THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<40	M	E1	M	M	E1	<1	<1	<1	<9	<.02	<.1	<.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
09...	<40	E1	E2	M	M	E1	<1	<1	<1	<9	<.02	<.1	E.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

07019120 FISHPOT CREEK AT VALLEY PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CHRY-SENE TOTAL (µg/L) (34320)	CYCLOPENTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)	DI-N-OCTYL PHTHAL-ATE TOTAL (µg/L) (34596)	DISUL-FOTON UNFILT RECOVER (µg/L) (39011)	ENDO-SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	M	<1	<.02	E.01	<.006	<2	<2	<2	<1	<.03	<.015	<.014	<.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
09...	E1	<1	<.02	.80	<.006	M	M	M	<1	<.07	<.015	<.014	<.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	FLUOR-ANTHENE TOTAL (µg/L) (34376)	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (µg/L) (34403)	ISO-PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA-THION, TOTAL (µg/L) (39530)	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	E2	M	<.01	<.009	<.014	<1	E1	M	<.006	<.03	<.01	<.01	<.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
09...	3	M	<.01	<.009	<.014	<1	E1	M	<.006	E.02	<.01	<.01	<.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	N-BUTYL BENZYL PHTHAL-ATE TOTAL (µg/L) (34292)	N-NITRO-SODI-METHYL-AMINE TOTAL (µg/L) (34438)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (µg/L) (34428)	N-NITRO-SODI-PHENYL-AMINE TOTAL (µg/L) (34433)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARA-CHLORO-META CRESOL TOTAL (µg/L) (34452)	PARA-THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PHENAN-THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	E2	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
09...	M	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	E1	<2
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX-APHENE, TOTAL (µg/L) (39400)	1,1,1-TRI-CHLORO-ETHANE TOTAL (µg/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (µg/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (µg/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<.02	E2	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
09...	<.02	E2	<1	<.10	<.10	<.10	<.2	<.10	<.10	M	<.10	<.10	<.10
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

07019120 FISHPOT CREEK AT VALLEY PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BENZENE TOTAL (µg/L) (34030)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (µg/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (µg/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µg/L) (50004)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<.10	<.20	<.20	<.10	E.1	.30	<.10	.24	<.2	<.2	<1.0	<.2	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
09...	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
09...	<.2	<.10	<.10	<1.3	<.2	<.2	<.20	E.1	<.10	<.10	<.1	<.10	<.10
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
09...	<.2	<.10	<.10	<1.3	.5	<.2	<.20	E.1	<.10	<.10	<.1	.12	<.10
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC		
18...	--	--
FEB		
09...	<.20	<.2
27...	--	--
27...	--	--
APR		
09...	<.20	<.2
MAY		
30...	--	--
AUG		
28...	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07019150 GRAND GLAIZE CREEK NEAR MANCHESTER, MO

LOCATION.--Lat 38°35'33", long 90°29'35", in NE $^1/_4$ SE $^1/_4$ SE $^1/_4$ sec.31. T.45 N., R.5 E., St. Louis County, Hydrologic Unit 07140102, gage on left downstream abutment of Weidmann Road bridge, 0.15 mi south of Highway 100, 1.1 mi west of Interstate 270, and 6.9 mi upstream of confluence of Meramec River.

DRAINAGE AREA.--5.09 mi^2.

PERIOD OF RECORD.--May 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage unknown.

REMARKS.--Records fair except for estimated daily discharges and those below 5 ft^3/s and above 1,000 ft^3/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	.20	.49	.21	.41	.81	.52	.82	1.0	e.21	.15	.14
2	.25	2.6	2.1	.19	.26	.72	1.5	.37	.54	e.27	.13	.10
3	.25	.29	.63	.19	.24	.63	32	.24	11	e.16	.13	.04
4	2.3	.20	.46	.30	.25	.60	1.8	.18	13	e26	.09	.17
5	27	.17	.39	.75	.22	.59	.58	.21	1.5	e1.2	.08	.17
6	.67	15	4.5	3.8	.21	.79	.49	.32	18	e.55	.05	.06
7	.37	.62	.44	2.0	.19	.60	.50	.16	.80	e.36	.03	.08
8	.28	.30	.33	.79	.21	.62	.52	.12	.47	e.33	13	7.7
9	.29	46	.32	.42	27	.60	13	.13	.40	e.32	1.1	16
10	.33	2.6	.30	.36	.55	.59	19	.18	.37	e.29	.45	.24
11	.29	.80	9.6	.38	.31	.56	6.4	.12	.34	e.28	.19	.15
12	.24	7.8	.53	.61	.28	.56	1.6	.11	.33	e1.3	.15	.17
13	.21	7.9	.32	9.5	1.8	.46	.47	.14	.30	e.50	.11	.14
14	.22	.85	.38	9.9	1.0	.48	.37	.13	2.4	e.34	.05	.09
15	11	.61	.95	.79	.41	61	19	.12	32	e.24	.01	.05
16	48	.55	1.4	.47	.27	13	.53	.15	.43	e.21	.29	.05
17	7.2	.54	.66	.44	.20	1.3	.58	.16	.31	e.19	.37	.04
18	.45	.50	.46	.40	.18	.68	.53	70	.29	e15	.16	17
19	.70	.49	.85	.33	.19	.58	.59	17	.26	e1.7	.09	.35
20	.26	.58	.36	.29	.18	.53	.63	5.3	88	e44	.06	.13
21	.25	.53	.30	.27	.16	.48	.81	13	6.1	e1.9	.03	.24
22	.45	.51	.21	.25	.39	1.6	.90	.50	.47	e.62	.16	.14
23	.53	.53	.25	.24	.84	.50	2.0	.81	.18	e.40	1.4	.14
24	.36	.99	.24	.23	116	.57	.54	1.2	e.18	e8.0	3.6	.11
25	.23	20	.18	.21	11	.41	.44	6.9	e.17	e.63	.95	.07
26	.24	1.9	.20	.54	1.3	.41	.41	1.6	e.17	.18	.31	.08
27	.24	.68	.31	.34	2.5	.39	.38	.44	e.16	.16	.25	.09
28	.25	.52	.27	.42	1.2	.40	.36	.35	e.16	.16	.14	.10
29	.23	.43	2.0	27	---	.41	.32	.31	e.15	.14	.09	.10
30	.24	.45	.25	5.5	---	.41	.50	7.9	e.14	.27	.32	.11
31	.32	---	.23	.65	---	.50	---	80	---	.17	.24	---
MEAN	3.35	3.84	.96	2.19	5.99	2.96	3.58	6.74	5.99	3.42	.78	1.47
MAX	48	46	9.6	27	116	61	32	80	88	44	13	17
MIN	.21	.17	.18	.19	.16	.39	.32	.11	.14	.14	.01	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	2.16	2.79	1.35	5.56	9.29	8.36	5.99	9.50	11.4	3.99	3.32	1.70
MAX	3.35	3.84	2.03	13.0	12.6	19.9	9.61	22.0	27.7	9.57	5.92	2.67
(WY)	2001	2001	1998	1999	1999	1998	1999	2000	2000	1998	1998	1998
MIN	1.39	1.03	.38	.89	5.99	2.96	2.92	3.61	2.13	.43	.78	.30
(WY)	2000	2000	1999	2000	2001	2001	2000	1998	1997	1997	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	6.98		3.41		5.68	
HIGHEST ANNUAL MEAN					7.66	1998
LOWEST ANNUAL MEAN					3.41	2001
HIGHEST DAILY MEAN	562	Jun 24	116	Feb 24	562	Jun 24 2000
LOWEST DAILY MEAN	.05	Sep 7,8	.01	Aug 15	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	.12	Sep 3	.09	Aug 1	.00	At Times
MAXIMUM PEAK FLOW	---		1240[a]	Feb 24	5430[a]	Jun 24 2000
MAXIMUM PEAK STAGE	---		5.66	Feb 24	9.37	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.00	Several Days	.00	Several Years
10 PERCENT EXCEEDS	15		7.9		11	
50 PERCENT EXCEEDS	.44		.40		.44	
90 PERCENT EXCEEDS	.19		.14		.09	

e Estimated
[a] From rating extended above 466 ft^3/s.

07019175 SUGAR CREEK AT KIRKWOOD, MO

LOCATION.--Lat 38°34'36", long 90°27'52", in SE $^1/_4$ SE $^1/_4$ SW $^1/_4$ sec.4, T.44 N., R.5 E., St. Louis County, Hydrologic Unit 07140102, gage attached to left upstream abutment of Barrett Station Road bridge, 2.3 mi north of Interstate 44, 1.1 mi west of Interstate 270, and 4.7 mi upstream from confluence of Meramec River.

DRAINAGE AREA.--5.08 mi^2.

PERIOD OF RECORD.--June 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage unknown.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.38	.54	.57	e.26	.77	.81	.48	.79	1.9	.78	.35	.27
2	.38	1.3	1.3	e.26	.66	.71	.69	.55	1.7	1.0	.37	.24
3	.36	.72	.92	e.26	.60	.64	14	.52	5.7	.53	1.7	.22
4	.35	.54	.68	e.36	.51	.52	2.2	.45	6.7	27	.31	.22
5	4.6	.48	.66	e.84	.77	.50	1.2	.47	2.1	3.6	.24	.22
6	.56	6.6	.76	e2.5	.79	.50	1.1	.53	12	1.0	.31	.21
7	.36	1.9	1.4	e1.6	.61	.49	.94	.44	1.4	.58	.24	.20
8	.30	.71	1.5	e.79	.67	.49	.86	.41	.94	.48	.21	1.6
9	.30	15	.49	e.46	14	.43	18	.39	.81	.42	.20	10
10	.32	2.0	.43	e.49	1.2	.41	11	.53	.77	.42	.32	.88
11	.33	.84	3.9	e.51	1.1	.39	3.6	.38	.75	.39	.30	.43
12	.31	1.9	e.66	e.69	3.9	.51	2.3	.35	.76	2.3	.24	.32
13	.30	6.0	e.44	2.8	1.3	.35	1.4	.30	.73	1.3	.20	.30
14	.31	1.3	e.56	5.7	1.8	.55	1.2	.31	4.4	.71	.19	.29
15	5.8	.75	e.92	1.4	.85	37	8.8	.32	6.8	.44	.19	.26
16	30	.65	e1.2	.83	.58	7.4	1.6	.34	.52	.36	.24	.26
17	3.8	.71	e.69	.66	.47	.97	1.1	.33	.44	.38	.25	.25
18	.93	.71	e.36	1.2	.41	.49	1.0	57	.48	14	.21	23
19	.63	.63	e.74	.85	.39	.40	.97	3.4	.37	2.0	.18	4.0
20	.61	.60	e.44	.49	.39	.39	.92	1.8	98	32	.16	.49
21	.55	.57	e.36	.42	.37	.28	.90	5.4	9.3	2.9	.40	.26
22	.73	.53	e.31	.42	.44	.51	1.0	.63	2.3	.66	.32	.21
23	.75	.53	e.28	.40	.55	.34	1.2	.61	1.1	.46	.39	.17
24	.69	.54	e.33	.37	55	.39	.88	.65	.82	20	2.1	.16
25	.65	9.2	e.25	.36	6.7	.44	.75	2.6	.79	1.0	.97	.17
26	.59	1.3	e.23	.49	1.9	.40	.67	1.1	.77	.50	.45	.16
27	.57	.67	e.41	.51	1.6	.44	.62	.51	.69	.46	.30	.14
28	.53	.50	e.28	.40	1.1	.48	.66	.42	.63	.44	.24	.13
29	.50	.48	e1.6	11	---	.50	.55	.51	.55	.43	.24	.14
30	.50	.51	e.31	4.5	---	.47	1.5	4.0	.52	.36	.25	.13
31	.52	---	e.28	1.4	---	.47	---	49	---	.33	.26	---
MEAN	1.86	1.96	.75	1.39	3.55	1.89	2.74	4.36	5.49	3.78	.40	1.51
MAX	30	15	3.9	11	55	37	18	57	98	32	2.1	23
MIN	.30	.48	.23	.26	.37	.28	.48	.30	.37	.33	.16	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	1.47	1.98	1.53	4.37	8.22	6.94	4.55	8.00	11.3	4.48	2.29	.94
MAX	1.86	2.99	2.42	10.1	16.2	19.4	7.97	18.7	19.2	10.6	3.64	1.51
(WY)	2001	1999	2000	1999	1999	1998	1998	2000	2000	1998	2000	2001
MIN	1.19	.71	.75	1.18	3.55	1.89	1.43	2.31	2.54	.37	.40	.20
(WY)	1998	2000	2001	2000	2001	2001	2000	1998	1999	1997	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	5.08		2.46		4.71	
HIGHEST ANNUAL MEAN					6.73	1998
LOWEST ANNUAL MEAN					2.46	2001
HIGHEST DAILY MEAN	465	May 7	98	Jun 20	465	May 7 2000
LOWEST DAILY MEAN	.17	Jan 10	.13	Sep 28,30	.02	Sep 26 1999
ANNUAL SEVEN-DAY MINIMUM	.21	Jan 10	.15	Sep 24	.04	Sep 5 1999
MAXIMUM PEAK FLOW	---		649[a]	Jun 20	1620[a]	Jun 24 2000
MAXIMUM PEAK STAGE	---		12.07	Jun 20	17.50	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.11	Aug 23,Sep 28,29	.01	Sep 25,26 1999
10 PERCENT EXCEEDS	5.6		4.0		6.0	
50 PERCENT EXCEEDS	.65		.55		.73	
90 PERCENT EXCEEDS	.31		.26		.24	

e Estimated
[a] From rating extended above 259 ft^3/s.

07019185 GRAND GLAIZE CREEK NEAR VALLEY PARK, MO

LOCATION.--Lat 38°33'59", long 90°28'21", in NW $^1/_4$ NW $^1/_4$ SW $^1/_4$ sec.9, T.44 N., R.5 E., St. Louis County, Hydrologic Unit 07140102, gage on right upstream abutment of Quinette Road bridge, 1.7 mi north of Interstate 44, 1.8 mi west of Interstate 270, and 3.46 mi upstream of confluence of Meramec River.

DRAINAGE AREA.--21.8 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage unknown.

REMARKS.--Water-dicharge records fair except for estimated daily discharges and those below 1 ft^3/s and above 3,000 ft^3/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.7	3.7	1.6	5.8	6.8	5.6	4.3	e10	e1.8	.94	.53
2	1.4	6.6	9.0	1.5	3.5	5.0	4.4	2.4	e5.6	e2.8	.74	.31
3	1.8	4.5	6.7	1.6	2.6	4.0	82	2.0	e24	e1.7	2.5	.25
4	1.7	2.0	3.6	1.8	4.3	3.5	14	1.4	e31	e56	.77	3.7
5	54	1.7	3.3	4.0	2.8	2.9	5.7	1.4	e7.5	e9.2	.49	.54
6	3.8	36	7.4	11	2.8	3.1	5.2	2.1	48	e2.9	.50	.33
7	1.3	9.8	3.7	16	2.9	3.2	4.0	1.7	8.7	e1.5	.51	.40
8	.84	1.8	3.1	9.0	3.3	2.7	3.1	1.3	1.7	e1.2	8.4	53
9	.83	89	1.6	4.3	70	2.8	43	1.1	1.3	1.1	4.6	130
10	1.0	15	1.7	4.3	11	3.1	79	1.3	1.6	1.2	2.8	6.1
11	1.2	3.5	23	4.4	5.6	3.0	19	1.5	1.4	.79	.80	.92
12	1.3	6.2	7.8	4.9	9.3	3.8	13	1.3	e1.2	11	.44	.53
13	1.4	33	2.6	11	9.2	3.7	5.0	1.1	e1.5	3.4	.33	.60
14	1.6	4.7	2.6	49	14	6.8	4.1	.99	e6.5	1.3	.21	.45
15	32	2.1	5.3	12	7.7	142	46	1.1	e67	.79	.23	.40
16	115	1.6	9.5	6.6	4.3	72	3.9	1.1	e1.9	.65	.45	.39
17	36	1.7	8.4	4.5	2.7	14	3.2	5.3	e1.3	.74	.86	.44
18	4.8	1.7	4.7	5.1	2.1	7.6	3.1	e205	e1.2	41	.93	63
19	3.2	1.8	4.5	4.8	2.0	5.9	2.6	e35	e1.4	11	.49	10
20	5.3	2.0	4.0	2.1	2.4	4.9	e2.3	e15	e279	116	.34	1.3
21	4.2	1.9	3.3	1.6	3.1	4.0	2.1	e40	e48	7.4	.40	2.1
22	7.7	1.7	1.9	1.6	6.5	8.5	4.6	e4.5	e7.2	2.6	.65	1.4
23	10	1.5	2.0	1.5	3.0	5.0	e6.7	e2.8	e3.2	1.4	1.0	1.1
24	15	2.1	2.2	1.5	264	4.2	e4.4	e3.4	e1.8	29	18	.61
25	11	48	1.6	1.3	52	3.0	e4.0	e12	e1.6	2.3	10	.63
26	6.9	11	1.8	3.2	13	2.3	3.8	e4.3	e1.6	1.2	1.8	.49
27	4.2	3.8	2.1	3.4	12	2.7	e2.5	e2.6	e1.5	1.0	.64	.59
28	3.3	2.4	2.1	1.8	9.4	e2.5	1.9	1.1	e1.4	1.0	.47	.53
29	2.7	2.6	3.1	66	---	e2.3	2.1	e1.1	e1.4	.85	.38	.47
30	2.0	3.4	2.2	34	---	3.5	e5.5	e17	e1.3	.82	.35	.55
31	2.1	---	1.7	12	---	3.9	---	e210	---	1.1	1.4	---
MEAN	10.9	10.2	4.52	9.27	19.0	11.1	12.9	18.9	19.0	10.2	2.01	9.39
MAX	115	89	23	66	264	142	82	210	279	116	18	130
MIN	.83	1.5	1.6	1.3	2.0	2.3	1.9	.99	1.2	.65	.21	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	7.45	8.79	7.18	20.9	35.5	31.2	21.2	24.0	31.8	17.7	13.1	7.20
MAX	10.9	11.5	10.0	47.2	64.3	78.5	35.3	39.4	67.2	39.4	19.2	9.39
(WY)	2001	1999	2000	1999	1999	1998	1998	2000	1998	1998	1998	2001
MIN	5.23	3.68	4.52	5.16	19.0	11.1	5.64	12.5	8.40	2.86	2.01	5.04
(WY)	2000	2000	2001	2000	2001	2001	2000	1998	1999	1997	2001	1998

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	17.1		11.4		18.8	
HIGHEST ANNUAL MEAN					28.4	1998
LOWEST ANNUAL MEAN					11.4	2001
HIGHEST DAILY MEAN	1010	Jun 24	279	Jun 20	1150	Feb 7 1999
LOWEST DAILY MEAN	.54	Sep 16	.21	Aug 14	.21	Jun 22 1999
ANNUAL SEVEN-DAY MINIMUM	.81	Sep 15	.47	Aug 11	.26	Jun 16 1999
MAXIMUM PEAK FLOW	---		2400[a]	Jun 20	5100[a]	Jun 24 2000
MAXIMUM PEAK STAGE	---		9.76[b]	Jun 20	14.95[b]	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.16	Sep 8	.01	Sep 30 1997
10 PERCENT EXCEEDS	36		26		36	
50 PERCENT EXCEEDS	3.0		2.9		3.8	
90 PERCENT EXCEEDS	1.2		.70		.96	

e Estimated
[a] From rating extended above 1,440 ft^3/s.
[b] From crest-stage gage.

07019185 GRAND GLAIZE CREEK NEAR VALLEY PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
DEC												
18...	1230	ENVIRONMENTAL	4.3	12.6	89	7.4	5030	.7	580	170	38.0	164
18...	1231	REPLICATE	--	--	--	--	--	--	590	170	39.0	--
JAN												
29...	1500	ENVIRONMENTAL	144	12.2	88	7.9	2090	1.3	380	110	26.0	178
FEB												
27...	0945	ENVIRONMENTAL	12	9.8	79	7.5	1370	6.4	320	90.0	22.0	192
MAR												
15...	2122	ENVIRONMENTAL	760	10.0	91	7.5	793	10.1	140	41.0	10.0	101
MAY												
30...	1055	ENVIRONMENTAL	e1.1	5.4	61	8.0	906	19.9	260	71.0	19.0	167
AUG												
28...	0935	ENVIRONMENTAL	.52	3.0	36	7.2	717	24.0	190	55.0	13.0	128

DATE	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2) (00405)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)
DEC													
18...	166	203	0	2000	15	.58	.19	.7	.04	.050	.080	12	44
18...	--	--	--	2100	14	.54	.19	.7	.04	.040	.080	--	31
JAN													
29...	181	221	0	--	300	1.4	.20	.5	.03	.080	.330	4.4	18
FEB													
27...	196	239	0	250	25	.74	.08	1.4	.02	.080	.120	11	13
MAR													
15...	103	126	0	--	1800	4.0	.26	.6	.02	.090	1.20	6.2	96
MAY													
30...	168	205	0	--	14	.80	.05	.1	<.01	.040	.100	3.5	8
AUG													
28...	129	157	0	--	22	.50	.12	.3	.01	.060	.100	15	20

DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)
DEC													
18...	340	2800	980	12	<1.0	<1.00	<1.00	2.0	1.9	40	<1.00	510	<.10
18...	--	--	--	15	<1.0	<1.00	<1.00	3.0	1.8	40	<1.00	520	<.10
JAN													
29...	K200	K1300	5000	150	1.0	<1.00	<1.00	3.0	2.6	100	<1.00	370	<.10
FEB													
27...	112	228	397	56	1.2	<1.00	<1.00	2.0	1.5	60	<1.00	180	<.10
MAR													
15...	K720	K640	K3400	300	1.4	<1.00	<1.00	2.0	2.1	280	1.00	160	.10
MAY													
30...	K180	K300	180	22	2.0	<1.00	<1.00	<1.0	1.6	20	<1.00	181	<.10
AUG													
28...	520	580	200	11	1.8	<1.00	<1.00	<1.0	1.5	M	<1.00	194	<.10

07019185 GRAND GLAIZE CREEK NEAR VALLEY PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	2,4,6-TRI-CHLORO-PHENOL TOTAL (µg/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (µg/L) (34601)	2,4,-DI-NITRO-PHENOL TOTAL (µg/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (µg/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (µg/L) (34626)
DEC													
18...	1.30	<1.0	<1.0	21	--	--	--	--	--	--	--	--	--
18...	1.40	<1.0	<1.0	18	--	--	--	--	--	--	--	--	--
JAN													
29...	1.60	<1.0	<1.0	59	<1	M	<1	<1	<2	<2	<20	<1	<1
FEB													
27...	1.00	1.6	<1.0	26	--	--	--	--	--	--	--	--	--
MAR													
15...	1.80	<1.0	<1.0	17	29	M	<1	<1	<2	<2	M	<1	<1
MAY													
30...	3.70	<1.0	<1.0	62	--	--	--	--	--	--	--	--	--
AUG													
28...	1.50	<1.0	<1.0	21	--	--	--	--	--	--	--	--	--

DATE	2-CHLORO-NAPH-THALENE TOTAL (µg/L) (34581)	2-CHLORO-PHENOL TOTAL (µg/L) (34586)	2-NITRO-PHENOL TOTAL (µg/L) (34591)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (µg/L) (34631)	4,6-DINITRO -ORTHO-CRESOL TOTAL (µg/L) (34657)	4-BROMO-PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4-NITRO-PHENOL TOTAL (µg/L) (34646)	ACE-NAPHTH-ENE TOTAL (µg/L) (34205)	ACE-NAPHTH-YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA-CENE TOTAL (µg/L) (34220)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
29...	<1	<1	M	<1	M	<1	<1	M	M	M	<.013	M	<2
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<1	<1	M	<1	M	<1	<1	E2	M	M	<.013	M	<2
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZI-DINE TOTAL (µg/L) (39120)	BENZO-A-PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR-AN-THENE TOTAL (µg/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA-CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO-[GHI]-PERY-LENE TOTAL (µg/L) (34521)	BIS(2-CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2-CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (µg/L) (39100)	CARBO-PHENO-THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
29...	<40	M	M	M	M	M	<1	<1	<1	M	<.02	<.1	<.01
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<40	M	E1	M	M	M	<1	<1	<1	<9	<.02	<.1	E.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

07019185 GRAND GLAIZE CREEK NEAR VALLEY PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CHRY-SENE TOTAL (µg/L) (34320)	CYCLOPENTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)	DI-N-OCTYL PHTHAL-ATE TOTAL (µg/L) (34596)	DISUL-FOTON UNFILT RECOVER (µg/L) (39011)	ENDO-SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
29...	M	<1	<.02	.09	<.006	<2	<2	<2	<1	<.07	<.015	<.014	<.01
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	M	<1	<.02	.13	<.006	<2	M	M	M	<.13	<.015	<.014	<.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	FLUOR-ANTHENE TOTAL (µg/L) (34376)	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (µg/L) (34403)	ISO-PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA-THION, TOTAL (µg/L) (39530)	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
29...	E2	M	<.01	<.009	<.014	<1	M	M	<.006	<.03	<.01	<.01	<.01
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	E2	M	<.01	<.009	<.014	<1	E2	M	<.006	E.01	<.01	<.01	<.01
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	N-BUTYL BENZYL PHTHAL-ATE TOTAL (µg/L) (34292)	N-NITRO-SODI-METHYL-AMINE TOTAL (µg/L) (34438)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (µg/L) (34428)	N-NITRO-SODI-PHENYL-AMINE TOTAL (µg/L) (34433)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARA-CHLORO-META CRESOL TOTAL (µg/L) (34452)	PARA-THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PHENAN-THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
29...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	E1	<2
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	E1	<2
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

07019185 GRAND GLAIZE CREEK NEAR VALLEY PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX-APHENE, TOTAL (µg/L) (39400)	1,1,1-TRI-CHLORO-ETHANE TOTAL (µg/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (µg/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (µg/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
29...	<.02	E1	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.02	E1	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZENE TOTAL (µg/L) (34030)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (µg/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (µg/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µg/L) (50004)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
29...	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

07019185 GRAND GLAIZE CREEK NEAR VALLEY PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)
DEC													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
29...	<.2	<.10	<.10	<1.3	E.1	<.2	<.20	<1.2	<.10	<.10	<.1	<.10	<.10
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.2	<.10	<.10	<1.3	<.2	<.2	<.20	E.1	<.10	<.10	<.1	<.10	<.10
MAY													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC		
18...	--	--
18...	--	--
JAN		
29...	<.20	<.2
FEB		
27...	--	--
MAR		
15...	<.20	<.2
MAY		
30...	--	--
AUG		
28...	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07019195 YARNELL CREEK AT FENTON, MO

LOCATION.--Lat 38°31'38", long 90°26'50", St. Louis County, Hydrologic Unit 07140102, on right downstream abutment of Fabick Drive bridge, 0.9 mi north of Highway 30, 1.05 mi south of Interstate 44, and 1.09 mi upstream from confluence of Meramec River.

DRAINAGE AREA.--2.71 mi^2.

PERIOD OF RECORD.--May 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage unknown.

REMARKS.--Records fair except estimated daily discharges, those below 1 ft^3/s and above 200 ft^3/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.21	e.57	.29	e.20	.48	.53	.50	.79	1.2	.55	.44	.34
2	.32	e3.9	.89	e.24	.37	.47	.96	.76	.82	.88	.35	.33
3	.17	e.67	.45	e.41	.32	e.39	20	.71	5.0	.43	.29	.30
4	.17	e.51	.29	e.24	.27	e.37	2.2	.73	8.1	12	.28	.39
5	.55	e.44	.25	2.3	.26	.39	1.0	.91	1.3	2.6	.30	.57
6	.29	e13	.21	2.8	.26	.39	.72	1.0	4.8	.45	.39	.30
7	.19	e2.3	.20	1.7	.23	.36	.59	.96	1.1	.30	.29	.25
8	.18	e.47	.20	.98	.23	.34	.51	.70	.71	.27	.26	33
9	e.22	e9.8	.19	.50	31	.34	17	.57	.62	.26	3.3	22
10	e.23	e2.2	.18	.39	2.0	.34	12	.51	.54	.26	1.3	.91
11	e.20	e.51	7.8	.36	.77	.36	2.3	.60	.51	.26	.46	.36
12	e.29	e4.0	e.53	.54	.59	.39	1.4	.46	.46	3.2	.33	.25
13	e.18	2.0	e.38	2.6	1.1	.39	.64	.52	.39	.66	.26	.22
14	e.17	.97	e.27	4.0	5.1	.40	.51	.57	11	.45	.23	.20
15	e1.8	.72	e.28	1.2	1.5	24	18	.57	12	.39	.23	.17
16	e29	.65	e.61	.58	.78	7.3	2.1	.59	.66	.30	.25	.16
17	e2.4	.63	e.45	.40	.49	1.4	1.4	.93	.57	.31	.23	.22
18	e.44	.62	e.36	.31	.36	.81	1.2	9.6	.45	4.1	.23	8.9
19	e.39	.57	e.33	.28	.32	.63	1.1	2.4	.44	1.0	.26	.90
20	e.37	.50	e.33	.26	.30	.52	1.0	2.7	5.7	9.3	.22	.36
21	e.34	.51	e.28	.24	.27	.45	1.0	5.5	4.5	.89	.20	.45
22	e.41	.52	e.27	.23	.33	1.2	1.2	.93	1.0	.51	.20	.22
23	e.50	.50	e.26	.22	.88	.68	1.6	.73	.59	5.3	.42	.18
24	e.93	.47	e.24	.20	27	.76	1.2	.64	.50	29	3.2	.17
25	e.75	11	e.30	.20	5.6	.52	1.1	1.8	.45	1.1	3.2	.15
26	e.76	1.4	e.29	.53	1.1	.45	.84	1.3	.36	.71	1.1	.15
27	e.89	.62	e.26	.35	1.4	.42	.84	.77	.31	.62	.51	.15
28	e.49	.44	e.24	.24	.94	.40	1.0	.67	.30	.56	.44	.15
29	e.45	.31	e.24	10	---	.43	.71	.64	.30	.52	.39	.15
30	e.41	.30	e.23	3.4	---	.39	.75	8.9	.30	.51	.36	.15
31	e.97	---	e.20	1.2	---	.47	---	17	---	.55	.36	---
MEAN	1.44	2.04	.56	1.20	3.01	1.49	3.18	2.11	2.17	2.52	.65	2.40
MAX	29	13	7.8	10	31	24	20	17	12	29	3.3	33
MIN	.17	.30	.18	.20	.23	.34	.50	.46	.30	.26	.20	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	1.58	1.61	1.04	2.94	5.13	4.50	3.31	3.22	6.50	3.45	2.31	1.31
MAX	1.92	2.23	1.73	6.59	9.37	11.8	6.08	6.94	11.7	7.82	3.76	2.40
(WY)	1999	1999	1998	1999	1999	1998	1998	2000	1998	1998	1997	2001
MIN	1.37	.40	.44	.77	3.01	1.18	.81	1.61	2.17	2.09	.65	.34
(WY)	2000	2000	1999	2000	2001	2000	2000	1998	2001	1997	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	2.80		1.88		3.09	
HIGHEST ANNUAL MEAN					4.64	1998
LOWEST ANNUAL MEAN					1.88	2001
HIGHEST DAILY MEAN	147	Jun 24	33	Sep 8	165	Feb 7 1999
LOWEST DAILY MEAN	.17	Oct 3,4,14	.15	Sep 25-30	.15	Nov 29-Dec 1 1999, Sep 25-30 2001
ANNUAL SEVEN-DAY MINIMUM	.20	Jan 24	.15	Sep 24	.15	Sep 24 2001
MAXIMUM PEAK FLOW	---		678[a]	Sep 8	882[a]	Jul 30 1998
MAXIMUM PEAK STAGE	---		7.10	Sep 8	7.82	Jul 30 1998
INSTANTANEOUS LOW FLOW	---		.13	Oct 3	.13	Oct 3 2000
10 PERCENT EXCEEDS	4.6		4.0		5.3	
50 PERCENT EXCEEDS	.39		.51		.51	
90 PERCENT EXCEEDS	.23		.23		.23	

e Estimated
[a] From rating extended above 123 ft^3/s.

07019220 FENTON CREEK NEAR FENTON, MO

LOCATION.--Lat 38°30'41", long 90°26'41", St. Louis County, Hydrologic Unit 07140102, on left downstream abutment of Highway 141 bridge, 0.66 mi north of county line, 0.24 mi south of Highway 30, and 1.4 mi upstream from confluence of Meramec River.

DRAINAGE AREA.--4.29 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 416.09 ft above sea level.

REMARKS.--Water-discharge records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.25	.48	.32	1.1	.86	.79	e.55	e1.4	.73	.56	.29
2	.16	.86	.87	.31	.72	.77	1.7	e.51	e.92	.60	.98	.28
3	.15	.21	.47	.32	.61	.71	40	e.61	e5.5	.48	.41	.27
4	.15	.25	.43	.39	.60	.69	3.5	e.71	e10	7.9	.35	.28
5	1.3	.33	.37	2.0	.58	.63	1.8	e.88	e1.8	1.2	.34	.29
6	.34	14	.37	3.6	.58	.68	1.6	e1.2	7.4	.60	.30	.26
7	.36	1.7	.36	3.5	.56	.62	1.2	e1.1	1.3	.49	.27	.26
8	.30	.59	.34	1.8	.60	.63	1.1	e.78	1.0	.46	.26	21
9	.25	30	.32	.79	50	.68	8.2	e.68	.92	.44	2.6	12
10	.36	3.2	.34	.68	2.8	.69	7.3	e.61	.85	.51	1.2	.80
11	.36	1.1	3.8	.66	1.3	.67	3.6	e.85	.78	.49	.35	.43
12	.36	4.1	1.2	.87	.96	.75	2.5	e.58	.69	2.5	.30	.43
13	.44	5.0	.90	4.5	1.6	.71	1.2	e.68	.64	.68	.28	.39
14	.51	1.0	.88	6.3	7.9	.48	1.1	e.61	18	.49	.28	.21
15	5.4	.79	1.3	2.1	2.9	34	22	e.55	17	.41	.27	.19
16	56	.65	1.6	1.1	1.5	8.0	1.9	e.51	1.2	.41	.32	.19
17	6.5	.53	1.6	1.1	1.0	2.4	.94	e1.2	.99	.44	.26	.49
18	.34	.63	.95	.89	.86	1.4	.81	e12	.76	1.2	.28	8.6
19	.29	.46	.80	.67	.86	1.2	.77	e2.7	.65	.58	.28	.54
20	.24	.40	.75	.63	.78	1.1	.75	e2.5	3.0	21	.32	.27
21	.29	.37	.77	.54	.71	.93	.73	e8.5	4.4	1.6	.31	.31
22	.38	.59	.69	.45	.82	1.6	.69	e1.1	1.0	.77	.30	.23
23	.82	.41	.68	.47	1.3	1.0	.81	e.80	.69	7.2	.81	.23
24	.29	1.2	.68	.45	42	1.2	.58	e.61	.56	61	2.5	.23
25	.29	15	.58	.45	6.6	.93	.57	e1.6	.53	1.6	8.2	.23
26	.40	1.8	.68	1.0	1.7	.83	.55	e1.3	.63	.72	1.3	.23
27	.46	.65	.73	.50	1.6	.70	.58	e.74	.57	.59	.38	.24
28	.24	.51	.44	.44	1.2	.69	.54	e.55	.62	1.7	.32	.25
29	.20	.46	.40	15	---	.69	.51	e.44	.60	.68	.30	.26
30	.22	.45	.34	5.5	---	.70	.55	e11	.53	.50	.42	.27
31	.22	---	.33	1.9	---	.81	---	e21	---	.48	.34	---
MEAN	2.51	2.92	.79	1.91	4.78	2.19	3.63	2.50	2.83	3.82	.82	1.67
MAX	56	30	3.8	15	50	34	40	21	18	61	8.2	21
MIN	.15	.21	.32	.31	.56	.48	.51	.44	.53	.41	.26	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	1.93	2.16	1.46	5.04	7.49	6.86	4.67	4.49	7.55	3.85	2.87	1.11
MAX	2.55	3.09	2.76	12.7	12.6	18.1	8.87	9.64	14.3	8.12	4.80	1.95
(WY)	2000	1999	2000	1999	1999	1998	1998	2000	1998	1998	2000	2000
MIN	1.08	.91	.37	1.22	4.66	1.69	1.23	1.87	2.83	1.91	.82	.26
(WY)	1998	2000	1999	2000	2000	2000	2000	1998	2001	1997	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL MEAN	3.57		2.51		4.14	
HIGHEST ANNUAL MEAN					6.07	1998
LOWEST ANNUAL MEAN					2.51	2001
HIGHEST DAILY MEAN	161	May 7	61	Jul 24	171	Feb 7 1999
LOWEST DAILY MEAN	.15	Oct 3,4	.15	Oct 3,4	.13	Sep 27 1999
ANNUAL SEVEN-DAY MINIMUM	.20	Sep 28	.23	Sep 22	.17	Sep 21 1999
MAXIMUM PEAK FLOW	---		1150[a]	Jul 24	1260[a]	Jun 11 1998
MAXIMUM PEAK STAGE	---		5.29	Jul 24	9.71	Jun 11 1998
INSTANTANEOUS LOW FLOW	---		.12	Oct 4	.07	Sep 22 1999
10 PERCENT EXCEEDS	6.5		5.2		7.9	
50 PERCENT EXCEEDS	.51		.68		.67	
90 PERCENT EXCEEDS	.28		.28		.28	

e Estimated
[a] From rating extended above 325 ft^3/s.

07019220 FENTON CREEK NEAR FENTON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
DEC 19...	0845	ENVIRONMENTAL	.74	12.8	89.6	7.8	1680	.5	610	170	45.0	246
JAN 29...	1352	ENVIRONMENTAL	47	11.7	97.4	7.9	1020	7.5	158	45.0	11.0	159
FEB 27...	1230	ENVIRONMENTAL	2	11.0	91	7.5	1140	6.8	365	100	28.0	192
MAR 15...	2052	ENVIRONMENTAL	355	10.6	95.5	7.5	407	10.0	97.9	28.0	6.80	81
MAY 29...	1250	ENVIRONMENTAL	.44	10.9	124	8.0	1080	20.7	480	131	37.0	226
AUG 28...	0800	ENVIRONMENTAL	.31	5.1	59.8	7.4	1050	21.8	422	118	31.0	218

DATE	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2) (00405)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)
DEC 19...	248	303	0	570	8	.43	.06	2.0	<.01	.040	.040	7.9	9
JAN 29...	161	196	0	--	1400	2.9	.15	.5	.02	.060	.880	3.9	18
FEB 27...	195	238	0	130	37	.62	.15	2.6	.03	.040	.070	10.7	14
MAR 15...	76	93	0	--	1100	3.6	.28	.6	.02	.150	.920	4.6	87
MAY 29...	228	278	0	--	6	.40	<.01	2.5	<.01	<.010	<.020	4.6	36
AUG 28...	220	269	0	--	11	.20	.06	2.7	.01	.020	.030	17.6	12

DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)
DEC 19...	62	K150	170	15	<1.0	<1.00	<1.00	3.0	1.7	20	<1.00	250	<.10
JAN 29...	K200	K3500	12000	230	1.1	<1.00	<1.00	4.0	3.0	160	<1.00	67.0	<.10
FEB 27...	240	2600	360	26	<1.0	<1.00	<1.00	4.0	1.8	20	<1.00	120	<.10
MAR 15...	K200	5200	14000	370	1.3	<1.00	<1.00	2.0	2.9	320	1.00	84.0	<.10
MAY 29...	300	540	700	10	1.3	<1.00	<1.00	1.8	2.0	M	<1.00	191	<.10
AUG 28...	180	K360	K560	11	<1.0	<1.00	<1.00	<1.0	<1.0	M	<1.00	152	<.10

07019220 FENTON CREEK NEAR FENTON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	2,4,6-TRI-CHLORO-PHENOL TOTAL (µg/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (µg/L) (34601)	2,4,-DI-NITRO-PHENOL TOTAL (µg/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (µg/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (µg/L) (34626)
DEC 19...	4.20	<1.0	<1.0	58	--	--	--	--	--	--	--	--	--
JAN 29...	1.30	<1.0	<1.0	82	3	M	<1	<1	<2	<2	<20	<1	<1
FEB 27...	2.40	<1.0	<1.0	220	--	--	--	--	--	--	--	--	--
MAR 15...	1.60	<1.0	<1.0	16	1	M	<1	<1	<2	<2	<20	<1	<1
MAY 29...	7.20	1.2	<1.0	76	--	--	--	--	--	--	--	--	--
AUG 28...	2.70	<1.0	<1.0	49	--	--	--	--	--	--	--	--	--

DATE	2-CHLORO-NAPH-THALENE TOTAL (µg/L) (34581)	2-CHLORO-PHENOL TOTAL (µg/L) (34586)	2-NITRO-PHENOL TOTAL (µg/L) (34591)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (µg/L) (34631)	4,6-DINITRO -ORTHO-CRESOL TOTAL (µg/L) (34657)	4-BROMO-PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4-NITRO-PHENOL TOTAL (µg/L) (34646)	ACE-NAPHTH-ENE TOTAL (µg/L) (34205)	ACE-NAPHTH-YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA-CENE TOTAL (µg/L) (34220)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 29...	<1	<1	M	<1	M	<1	<1	M	M	M	<.013	M	<2
FEB 27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	<1	<1	M	<1	<2	<1	<1	<1	M	M	<.013	M	<2
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZI-DINE TOTAL (µg/L) (39120)	BENZO-A-PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR-AN-THENE TOTAL (µg/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA-CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO-[GHI]-PERY-LENE TOTAL (µg/L) (34521)	BIS(2-CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2-CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (µg/L) (39100)	CARBO-PHENO-THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 29...	<40	M	E1	M	M	M	<1	<1	<1	M	<.02	<.1	<.01
FEB 27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	<40	M	M	M	M	M	<1	<1	<1	<9	<.02	<.1	<.01
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CHRY-SENE TOTAL (µg/L) (34320)	CYCLOPE NTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)	DI-N-OCTYL PHTHAL-ATE TOTAL (µg/L) (34596)	DISUL-FOTON UNFILT RECOVER (µg/L) (39011)	ENDO-SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 29...	E1	<1	<.02	<.02	<.006	<2	<2	<2	<1	<.07	<.015	<.014	<.01
FEB 27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	M	<1	<.02	.77	<.006	<2	M	M	M	<.13	<.015	<.014	<.01
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

07019220 FENTON CREEK NEAR FENTON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	FLUOR-ANTHENE TOTAL (µg/L) (34376)	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (µg/L) (34403)	ISO-PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA-THION, TOTAL (µg/L) (39530)	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 29...	E2	M	<.01	<.009	<.014	<1	M	M	<.006	<.03	<.01	<.01	<.01
FEB 27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	E1	M	<.01	<.009	<.014	M	E1	M	<.006	<.03	<.01	<.01	<.01
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	N-BUTYL BENZYL PHTHAL-ATE TOTAL (µg/L) (34292)	N-NITRO-SODI-METHYL-AMINE TOTAL (µg/L) (34438)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (µg/L) (34428)	N-NITRO-SODI-PHENYL-AMINE TOTAL (µg/L) (34433)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARA-CHLORO-META CRESOL TOTAL (µg/L) (34452)	PARA-THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PHENAN-THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 29...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	E1	<2
FEB 27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	M	<2
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX-APHENE, TOTAL (µg/L) (39400)	1,1,1-TRI-CHLORO-ETHANE TOTAL (µg/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (µg/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (µg/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 29...	<.02	E1	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
FEB 27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	<.02	E1	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZENE TOTAL (µg/L) (34030)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (µg/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (µg/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µg/L) (50004)
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 29...	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10
FEB 27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

07019220 FENTON CREEK NEAR FENTON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 29...	<.2	<.10	<.10	<1.3	.3	<.2	<.20	E.1	<.10	<.10	<.1	<.10	<.10
FEB 27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	<.2	<.10	<.10	<1.3	.4	<.2	<.20	M	<.10	<.10	<.1	<.10	<.10
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC 19...	--	--
JAN 29...	<.20	<.2
FEB 27...	--	--
MAR 15...	<.20	<.2
MAY 29...	--	--
AUG 28...	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07019280 MERAMEC RIVER AT PAULINA HILLS, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 38°27'46", long 90°24'53", Jefferson County, Hydrologic Unit 07140102, at bridge on State Highway 21 at Paulina Hills, 0.3 mi downstream from Saline Creek, and 10 mi upstream from mouth of Meramec River.

DRAINAGE AREA.--3,950 mi^2, approximately.

PERIOD OF RECORD.--August 1963 to July 1975, October 1981 to current year. August 1963 to September 1970 published as Meramec River at Paulina Hills, Mo. (07019045).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT												
03...	1230	ENVIRONMENTAL	624	8.9	105	8.3	429	23.3	--	--	--	--
03...	1231	REPLICATE	--	--	--	--	--	--	--	--	--	--
NOV												
29...	0730	ENVIRONMENTAL	778	11.3	89	8.1	463	5.4	220	44.7	26.4	1.92
DEC												
11...	0812	ENVIRONMENTAL	635	12.4	96	7.8	499	4.3	--	--	--	--
JAN												
10...	0725	ENVIRONMENTAL	744	15.2	103	7.6	379	.5	240	47.3	28.9	1.97
FEB												
21...	1330	ENVIRONMENTAL	2060	12.7	102	8.0	391	6.0	--	--	--	--
MAR												
28...	0815	ENVIRONMENTAL	1470	11.5	100	8.1	370	9.4	--	--	--	--
APR												
23...	1440	ENVIRONMENTAL	1740	10.0	107	8.3	338	18.2	--	--	--	--
MAY												
15...	0745	ENVIRONMENTAL	904	10.2	119	8.3	395	22.7	190	39.1	21.5	1.81
JUN												
20...	1315	ENVIRONMENTAL	940	7.5	97	8.1	334	28.1	--	--	--	--
20...	1316	REPLICATE	--	--	--	--	--	--	--	--	--	--
JUL												
23...	1450	ENVIRONMENTAL	667	6.9	96	7.9	372	31.6	180	37.9	20.7	1.85
AUG												
21...	0845	ENVIRONMENTAL	592	6.2	76	7.9	446	25.3	--	--	--	--
SEP												
05...	1225	ENVIRONMENTAL	519	7.3	96	7.9	409	28.2	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT													
03...	--	173	175	209	2	--	--	--	--	--	<.020	.76	.227
03...	--	--	--	--	--	--	--	--	--	--	<.020	.79	.226
NOV													
29...	14.9	262	263	321	0	18.0	E.1	29.7	<10	263	<.041	.33	.221
DEC													
11...	--	189	188	229	0	--	--	--	--	--	<.041	.19	.278
JAN													
10...	31.8	196	199	243	0	41.3	E.2	31.2	<10	302	.281	.65	.279
FE													
21...	--	150	150	183	0	--	--	--	--	--	.065	.41	.472
MAR													
28...	--	137	139	169	0	--	--	--	--	--	E.039	.54	.247
APR													
23...	--	131	130	155	2	--	--	--	--	--	<.041	.71	.056
MAY													
15...	10.0	158	159	184	5	14.1	E.1	22.1	<10	210	<.040	.50	E.026
JUN													
20...	--	131	131	160	0	--	--	--	--	--	<.040	.62	E.030
20...	--	--	--	--	--	--	--	--	--	--	<.040	.84	E.034
JUL													
23...	14.2	149	152	186	0	19.8	E.1	20.9	35	216	<.040	.61	.191
AUG													
21...	--	167	168	205	0	--	--	--	--	--	E.039	.57	.182
SEP													
05...	--	161	162	198	0	--	--	--	--	--	E.039	.41	.324

07019280 MERAMEC RIVER AT PAULINA HILLS, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L aS Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
03...	.025	.095	.078	.253	--	LA	K20	20	--	--	--	--	--
03...	.026	.092	.078	.256	--	--	--	--	--	--	--	--	--
NOV													
29...	.040	.064	.052	.112	<10	74	220	K39	17	135	.5	<8.00	<.11
DEC													
11...	.036	.075	.070	.097	--	K11	280	54	--	--	--	--	--
JAN													
10...	.025	.079	.068	.114	<10	K7	86	24	16	122	.4	<8.00	<.11
FEB													
21...	.015	E.032	.033	.064	--	K2	92	K17	--	--	--	--	--
MAR													
28...	.016	<.060	.021	.091	--	K8	K25	K14	--	--	--	--	--
APR													
23...	.019	<.060	<.018	.100	--	K19	K29	K50	--	--	--	--	--
MAY													
15...	E.004	<.060	<.020	E.052	14	88	86	260	10	72	1.0	<8.00	<.10
JUN													
20...	.006	<.060	E.016	.076	--	K30	42	K35	--	--	--	--	--
20...	<.006	<.060	.021	--	--	--	--	--	--	--	--	--	--
JUL													
23...	.019	E.048	.036	.140	17	72	110	42	38	487	1.3	<8.00	<.10
AUG													
21...	.015	.089	.083	.168	--	29	25	28	--	--	--	--	--
SEP													
05...	.033	.106	.087	.152	--	K60	K82	K45	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
OCT								
03...	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--
NOV								
29...	<4.7	40	.79	4	25.4	<.14	--	6
DEC								
11...	--	--	--	--	--	--	--	--
JAN								
10...	<4.7	30	.69	5	48.3	<.14	--	10
FEB								
21...	--	--	--	--	--	--	--	--
MAR								
28...	--	--	--	--	--	--	--	--
APR								
23...	--	--	--	--	--	--	--	--
MAY								
15...	<5.0	<10	.33	2	E2.4	<.01	8	7
JUN								
20...	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--
JUL								
23...	<5.0	20	.54	12	38.3	.07	13	24
AUG								
21...	--	--	--	--	--	--	--	--
SEP								
05...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.
LA-Laboratory Accident.

07019317 MATTESE CREEK NEAR MATTESE, MO

LOCATION.--Lat 38°28'59", long 90°20'27", in SW $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec.10, T.43 N., R.6 E., St. Louis County, Hydrologic Unit 07140102, on right downstream pier of Ringer Road bridge, 0.86 mi east of Interstate 55, 1.4 mi south of Interstate 255, and 3.4 mi above confluence to Meramec River.

DRAINAGE AREA.--7.88 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 413.57 ft above sea level.

REMARKS.--Water-discharge records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.18	.31	e.37	.04	1.5	.62	.04	2.3	.00	.00	.00
2	.00	5.3	e2.0	e.56	.03	1.4	2.9	.00	1.1	.00	.00	.00
3	.00	.26	.48	e.88	.02	1.3	52	.00	9.2	.00	.00	.00
4	.01	.05	.33	e.45	.01	1.0	5.2	.00	25	23	.00	.00
5	.68	.01	.28	e3.0	.01	.86	2.7	3.6	4.8	1.8	.00	.00
6	.20	26	e.26	e6.2	.00	.81	1.9	5.0	20	.06	.00	.00
7	.01	3.7	.25	e3.5	.01	.80	1.6	.50	2.5	.00	.00	.00
8	.03	.75	.22	e1.8	e.20	.79	1.3	.03	1.5	.00	.00	81
9	.01	35	.16	e.56	e36	.71	22	.18	.83	.00	1.1	57
10	.00	3.1	.13	e.08	.72	.72	17	.07	.53	.00	5.2	4.4
11	.00	1.3	33	e.03	.22	.58	6.0	.00	.51	.00	.00	1.3
12	.08	11	e.46	.06	.12	.55	3.2	.00	.37	5.1	.00	.03
13	.05	9.5	e.39	e1.2	e3.4	.46	1.8	.00	.13	.20	.00	.00
14	.00	1.5	e.27	1.5	e9.4	.36	1.5	.00	.30	.00	.00	.00
15	7.6	1.1	e.28	.18	e6.8	44	14	.00	5.0	.00	.00	.00
16	79	1.0	e1.5	e.11	e1.4	9.8	1.9	.00	.20	.00	.00	.00
17	6.4	1.1	e.59	.03	.10	2.3	1.3	.00	.01	.00	.00	.00
18	.93	.98	e.46	.02	.08	1.5	1.3	90	.00	1.1	.00	71
19	.51	.92	e.44	e.03	.07	1.2	1.1	6.6	.07	4.1	.00	4.0
20	.43	1.3	e.43	e.00	.05	1.0	.90	6.1	.22	18	.00	1.2
21	.33	1.7	e.39	.01	1.1	.93	.84	10	10	2.9	.00	1.2
22	1.1	1.3	e.37	.00	e1.2	2.8	.68	.88	.91	6.4	.00	.01
23	2.0	1.2	e.36	.00	e1.7	.83	1.4	.33	.37	52	2.0	.00
24	1.7	1.5	e.38	.00	45	1.3	.62	.10	.08	379	24	.00
25	.30	34	e.52	.00	12	.70	.35	4.6	.00	11	16	.00
26	.15	3.2	e.44	e.20	4.3	.60	.28	1.9	.00	7.8	4.6	.00
27	.09	1.3	e.42	.00	e2.8	.54	.22	.49	.00	4.6	.00	.00
28	.04	1.0	e.41	e.11	2.0	.51	.29	.05	.00	4.7	.00	.00
29	.00	.86	e.40	9.0	---	.51	.02	.05	3.6	6.7	.00	.00
30	.00	.75	e.39	1.8	---	.56	.00	21	.73	.63	.47	.00
31	.88	---	e.39	e.74	---	.56	---	32	---	.00	4.0	---
MEAN	3.31	5.03	1.51	1.05	4.60	2.63	4.83	5.92	3.01	17.1	1.85	7.37
MAX	79	35	33	9.0	45	44	52	90	25	379	24	81
MIN	.00	.01	.13	.00	.00	.36	.00	.00	.00	.00	.00	.00
IN.	.48	.71	.22	.15	.61	.38	.68	.87	.43	2.50	.27	1.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	2.58	6.80	2.63	8.21	13.1	11.5	8.46	9.13	17.5	10.1	5.43	4.05
MAX	3.38	19.7	5.08	16.0	23.9	31.9	19.6	18.9	30.8	18.7	10.7	10.7
(WY)	1997	1997	2000	1997	1997	1998	1998	2000	2000	1998	1998	1996
MIN	1.58	.96	.66	1.05	4.60	2.63	2.33	3.50	3.01	1.59	1.85	.27
(WY)	2000	2000	1999	2001	2001	2001	2000	1999	2001	1997	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL MEAN	8.06		4.85		8.19	
HIGHEST ANNUAL MEAN					12.0	1998
LOWEST ANNUAL MEAN					4.85	2001
HIGHEST DAILY MEAN	512	Jun 24	379	Jul 24	512	Jun 24 2000
LOWEST DAILY MEAN	.00	Several Days	.00	Many Days	.00	Oct 16 1996
ANNUAL SEVEN-DAY MINIMUM	.02	Oct 8	.00	May 11	.00	Jul 30 1997
MAXIMUM PEAK FLOW	---		8310[a]	Jul 24	8310[a]	Jul 24 2001
MAXIMUM PEAK STAGE	---		12.82	Jul 24	12.82	Jul 24 2001
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Jul 17 1997
ANNUAL RUNOFF (INCHES)	13.93		8.35		14.13	
10 PERCENT EXCEEDS	15		8.3		16	
50 PERCENT EXCEEDS	.58		.46		.77	
90 PERCENT EXCEEDS	.12		.00		.00	

e Estimated
[a] From rating extended above 571 ft^3/s.

07019317 MATTESE CREEK NEAR MATTESE, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1996 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
DEC												
11...	1251	ENVIRONMENTAL	40	10.2	85.4	7.6	1420	7.1	195	60.0	11.0	118
18...	1220	ENVIRONMENTAL	.68	14.5	101	7.7	3740	.1	615	190	34.0	226
FEB												
27...	1320	ENVIRONMENTAL	7.8	11.8	98	7.8	1710	6.4	415	130	22.0	250
MAR												
15...	1942	ENVIRONMENTAL	64	8.2	75.6	7.3	1140	10.9	204	62.0	12.0	123
MAY												
29...	1410	ENVIRONMENTAL	.05	13.7	181	8.5	984	28.9	267	79.0	17.0	159
AUG												
27...	1330	ENVIRONMENTAL	.01	2.9	35.4	7.3	676	23.8	155	49.0	7.90	128

DATE	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2) (00405)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)
DEC													
11...	118	144	0	--	130	1.7	.07	1.4	.06	.070	.300	5.6	34
18...	226	276	0	2000	9	.41	.16	.9	.02	.060	.060	9.1	68
FEB													
27...	253	308	0	330	5	.33	.03	1.2	.01	.050	.050	7.1	9
MAR													
15...	124	151	0	--	130	.98	.14	.6	.04	.030	.150	12.5	41
MAY													
29...	160	181	7	--	14	.50	<.01	<.02	<.01	.020	.040	1.1	27
AUG													
27...	131	160	0	--	23	1.3	.12	.9	.02	.170	.210	12.4	20

DATE	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)
DEC													
11...	40000	2000	9400	284	1.2	<1.00	<1.00	1.5	5.3	280	4.00	140	<.10
18...	210	1200	530	10	<1.0	<1.00	2.00	3.0	1.9	30	<1.00	220	<.10
FEB													
27...	96	236	140	18	<1.0	<1.00	<1.00	3.0	1.5	20	<1.00	82.0	<.10
MAR													
15...	K800	K2200	K2200	180	<1.0	<1.00	<1.00	2.0	3.4	140	2.00	87.0	<.10
MAY													
29...	K180	200	K120	35	2.1	<1.00	<1.00	<1.0	2.0	50	<1.00	23.0	<.10
AUG													
27...	140	K360	290	62	2.1	<1.00	<1.00	<1.0	3.0	70	<1.00	147	<.10

07019317 MATTESE CREEK NEAR MATTESE, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (mg/L) (00556)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (µg/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	2,4,6-TRI-CHLORO-PHENOL TOTAL (µg/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (µg/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (µg/L) (34601)	2,4,-DI-NITRO-PHENOL TOTAL (µg/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (µg/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (µg/L) (34626)
DEC													
11...	1.80	1.3	<1.0	99	3	M	<1	<1	M	<2	M	<1	<1
18...	1.40	<1.0	<1.0	88	--	--	--	--	--	--	--	--	--
FEB													
27...	<1.00	5.1	<1.0	89	--	--	--	--	--	--	--	--	--
MAR													
15...	1.70	1.3	<1.0	110	<1	M	<1	<1	<2	<2	M	<1	<1
MAY													
29...	3.90	1.6	<1.0	5	--	--	--	--	--	--	--	--	--
AUG													
27...	1.90	<1.0	<1.0	114	--	--	--	--	--	--	--	--	--

DATE	2-CHLORO-NAPH-THALENE TOTAL (µg/L) (34581)	2-CHLORO-PHENOL TOTAL (µg/L) (34586)	2-NITRO-PHENOL TOTAL (µg/L) (34591)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (µg/L) (34631)	4,6-DINITRO -ORTHO-CRESOL TOTAL (µg/L) (34657)	4-BROMO-PHENYL PHENYL ETHER TOTAL (µg/L) (34636)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (µg/L) (34641)	4-NITRO-PHENOL TOTAL (µg/L) (34646)	ACE-NAPHTH-ENE TOTAL (µg/L) (34205)	ACE-NAPHTH-YLENE TOTAL (µg/L) (34200)	ALDRIN, TOTAL (µg/L) (39330)	ANTHRA-CENE TOTAL (µg/L) (34220)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)
DEC													
11...	<1	<1	M	<1	E3	<1	<1	3	M	M	<.013	M	<2
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<1	<1	M	<1	M	<1	<1	E2	M	M	<.013	M	<2
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZI-DINE TOTAL (µg/L) (39120)	BENZO-A-PYRENE TOTAL (µg/L) (34247)	BENZO B FLUOR-AN-THENE TOTAL (µg/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (µg/L) (34242)	BENZ(A) ANTHRA-CENE WATER UNFLTRD REC (µg/L) (34526)	BENZO-[GHI]-PERY-LENE TOTAL (µg/L) (34521)	BIS(2-CHLORO-ETHOXY) METHANE TOTAL (µg/L) (34278)	BIS(2-CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (µg/L) (39100)	CARBO-PHENO-THION WATER UNFLTRD (µg/L) (39786)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)
DEC													
11...	<40	M	E2	M	M	M	<1	<1	<1	M	<.02	<.1	<.01
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<40	M	M	M	M	M	<1	<1	<1	<9	<.02	<.1	<.01
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CHRY-SENE TOTAL (µg/L) (34320)	CYCLOPE NTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)	DI-N-OCTYL PHTHAL-ATE TOTAL (µg/L) (34596)	DISUL-FOTON UNFILT RECOVER (µg/L) (39011)	ENDO-SULFAN I TOTAL (µg/L) (39388)	ENDRIN WATER UNFLTRD REC (µg/L) (39390)	ETHION, TOTAL (µg/L) (39398)
DEC													
11...	E1	<1	<.02	.03	<.006	<2	<2	<2	<1	<.03	<.015	<.014	<.01
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	M	<1	<.02	.11	<.006	<2	M	M	M	<.13	<.015	<.014	<.01
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

07019317 MATTESE CREEK NEAR MATTESE, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	FLUOR-ANTHENE TOTAL (µg/L) (34376)	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (µg/L) (34403)	ISO-PHORONE TOTAL (µg/L) (34408)	LINDANE TOTAL (µg/L) (39340)	MALA-THION, TOTAL (µg/L) (39530)	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	MIREX, TOTAL (µg/L) (39755)
DEC													
11...	3	M	<.01	<.009	<.014	<1	M	M	<.006	E.03	<.01	<.01	<.01
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	E1	M	<.01	<.009	<.014	<1	E1	M	<.006	<.03	<.01	<.01	<.01
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	N-BUTYL BENZYL PHTHAL-ATE TOTAL (µg/L) (34292)	N-NITRO-SODI-METHYL-AMINE TOTAL (µg/L) (34438)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (µg/L) (34428)	N-NITRO-SODI-PHENYL-AMINE TOTAL (µg/L) (34433)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARA-CHLORO-META CRESOL TOTAL (µg/L) (34452)	PARA-THION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PHENAN-THRENE TOTAL (µg/L) (34461)	PHENOL UNFILT. WATER (µg/L) (34694)
DEC													
11...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	E2	E2	<2
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<2	<2	<.9	<1	<.007	<.006	<.009	<2	<.01	<.1	M	M	<2
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	TOX-APHENE, TOTAL (µg/L) (39400)	1,1,1-TRI-CHLORO-ETHANE TOTAL (µg/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (µg/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (µg/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)
DEC													
11...	<.02	E2	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.02	M	<1	<.10	<.10	<.10	<.2	<.10	<.10	<1.1	<.10	<.10	<.10
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZENE TOTAL (µg/L) (34030)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (µg/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (µg/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µg/L) (50004)
DEC													
11...	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<1.0	<.2	<.10
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

07019317 MATTESE CREEK NEAR MATTESE, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)
DEC													
11...	<.2	<.10	<.10	<1.3	.8	<.2	<.20	E.2	.13	<.10	<.1	<.10	<.10
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.2	<.10	<.10	<1.3	<.2	<.2	<.20	<1.2	<.10	<.10	<.1	<.10	<.10
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC		
11...	<.20	<.2
18...	--	--
FEB		
27...	--	--
MAR		
15...	<.20	<.2
MAY		
29...	--	--
AUG		
27...	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

MISSISSIPPI RIVER MAIN STEM

07020500 MISSISSIPPI RIVER AT CHESTER, IL

LOCATION.--Lat 37°54'10", long 89°50'10", in SW $^1/_4$ sec.24, T.7 S., R.7 W., third principal meridian, Randolph County, Hydrologic Unit 07140105, on downstream side of left pier of main truss of highway bridge at Chester, 8.1 mi downstream from Kaskaskia River, and at mile 109.9 above Ohio River.

DRAINAGE AREA.--708,600 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--
DISCHARGE: October 1927 to current year in reports of the U.S. Geological Survey. Monthly discharge only for some periods, published in WSP 1311. Since August 1873, results of discharge measurements in reports of the Mississippi River Commission.
GAGE HEIGHT: July 1942 to current year in reports of the U.S. Geological Survey. Since May 1891, in reports of the Mississippi River Commission and National Weather Service.

REVISED RECORDS.--WDR MO-76-1: Drainage area. WDR MO-98-1: Extreme outside period of record.

GAGE.--Water-stage recorder. Datum of gage is 341.05 ft above sea level. Prior to Feb. 1, 1962, nonrecording gage 0.4 mi downstream at present datum.

REMARKS.--Water-discharge records good. Natural flow of stream affected by many reservoirs and navigation dams in upper Mississippi River Basin and by many reservoirs and diversions for irrigation in Missouri River Basin. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 30, 1844, reached a gage height of 39.8 ft, discharge, 1,050,000 ft^3/s, computed by the U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107000	101000	109000	70700	212000	459000	282000	417000	340000	369000	183000	137000
2	105000	93300	109000	71500	217000	451000	268000	420000	346000	354000	191000	132000
3	100000	86300	110000	72300	197000	424000	268000	421000	365000	342000	200000	118000
4	93200	84000	108000	71300	185000	381000	265000	420000	397000	334000	187000	105000
5	93800	86800	110000	72000	176000	335000	274000	418000	430000	328000	174000	103000
6	117000	91200	107000	74800	160000	305000	306000	413000	469000	325000	170000	104000
7	120000	103000	99100	75300	152000	292000	323000	413000	502000	329000	169000	101000
8	116000	116000	89100	75200	143000	280000	318000	419000	532000	331000	166000	99400
9	115000	115000	80300	75700	139000	266000	306000	429000	562000	319000	163000	104000
10	105000	123000	75100	74700	173000	252000	305000	447000	583000	301000	161000	109000
11	94600	132000	72700	73500	246000	239000	307000	460000	590000	282000	160000	102000
12	90700	144000	74700	73500	310000	229000	330000	460000	585000	264000	152000	104000
13	92500	153000	75400	71200	330000	223000	362000	455000	564000	254000	142000	113000
14	92400	159000	66300	72500	313000	212000	378000	454000	534000	238000	133000	121000
15	92200	148000	63400	83000	288000	210000	378000	463000	501000	226000	119000	120000
16	95700	138000	64400	89300	269000	238000	377000	469000	469000	220000	97000	121000
17	108000	138000	66100	99400	254000	293000	383000	473000	442000	212000	92400	120000
18	114000	135000	71900	96800	241000	367000	387000	478000	431000	200000	90800	114000
19	112000	134000	72900	97500	227000	416000	391000	487000	439000	195000	98900	105000
20	104000	136000	73400	101000	216000	429000	393000	494000	443000	198000	101000	104000
21	94800	137000	71000	100000	208000	420000	394000	501000	434000	188000	99500	104000
22	87700	128000	68800	103000	199000	402000	396000	503000	415000	186000	98000	145000
23	84200	126000	72100	104000	188000	381000	398000	496000	412000	182000	99700	178000
24	87900	118000	77300	101000	183000	361000	400000	485000	432000	178000	107000	177000
25	97300	112000	79500	98600	241000	350000	406000	470000	448000	187000	142000	164000
26	96700	112000	76600	93100	354000	345000	412000	453000	450000	185000	144000	153000
27	92800	116000	73500	89100	410000	345000	416000	432000	443000	178000	128000	141000
28	90200	114000	72400	86000	446000	340000	415000	407000	429000	181000	119000	136000
29	92000	112000	70200	82000	---	331000	414000	380000	407000	196000	118000	140000
30	93800	111000	72100	94000	---	314000	415000	357000	386000	202000	125000	141000
31	98400	---	72100	165000	---	296000	---	344000	---	191000	134000	---
MEAN	99480	120100	80750	87320	238500	328600	355600	443200	459300	247600	137600	123800
MAX	120000	159000	110000	165000	446000	459000	416000	503000	590000	369000	200000	178000
MIN	84200	84000	63400	70700	139000	210000	265000	344000	340000	178000	90800	99400
IN.	.16	.19	.13	.14	.35	.53	.56	.72	.72	.40	.22	.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2001, BY WATER YEAR (WY)

MEAN	150900	157800	140500	131800	161900	252400	336200	322600	287700	244400	161400	147100
MAX	588300	380400	500100	323200	331000	528400	719100	630900	597200	795300	769500	551000
(WY)	1987	1986	1983	1973	1974	1973	1973	1995	1947	1993	1993	1993
MIN	59490	59320	51070	47810	52860	84200	129400	127200	81040	69050	69580	66030
(WY)	1957	1957	1964	1964	1964	1964	2000	1989	1988	1988	1988	1976

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1942 - 2001	
ANNUAL MEAN	143300		226300		207800	
HIGHEST ANNUAL MEAN					441700	1993
LOWEST ANNUAL MEAN					96770	1956
HIGHEST DAILY MEAN	424000	Jun 30	590000	Jun 11	1000000	Aug 6 1993
LOWEST DAILY MEAN	63400	Dec 15	63400	Dec 15	37600	Jan 1 1964
ANNUAL SEVEN-DAY MINIMUM	68300	Dec 14	68300	Dec 14	38500	Dec 20 1963
MAXIMUM PEAK FLOW	---		591000	Jun 11	1000000	Aug 7 1993
MAXIMUM PEAK STAGE	---		35.31	Jun 11	49.74	Aug 7 1993
INSTANTANEOUS LOW FLOW	---		62900	Dec 15	30000	Dec 12 1937
ANNUAL RUNOFF (INCHES)	2.75		4.34		3.99	
10 PERCENT EXCEEDS	255000		440000		401000	
50 PERCENT EXCEEDS	120000		174000		167000	
90 PERCENT EXCEEDS	81600		80000		78100	

07020500 MISSISSIPPI RIVER AT CHESTER, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT: August 1980 to current year.

REMARKS.--Sediment records fair except for estimated daily loads, which are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,380 mg/L, Apr. 13, 1987; minimum daily mean, 13 mg/L, Mar. 18, 1981.
SUSPENDED-SEDIMENT LOADS: Maximum daily, 3,330,000 tons, Feb. 25, 1997; minimum daily, 3,580 tons, Mar. 18, 1981.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATIONS.--Maximum daily mean, 1,600 mg/L, March 19; minimum daily mean, 59 mg/L, Jan. 9, 13, and 14.
SUSPENDED-SEDIMENT LOADS.--Maximum daily, 2,150,000 tons, June 9; minimum daily 11,400 tons, Jan. 13.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
		OCTOBER			NOVEMBER			DECEMBER	
1	107000	99	28600	101000	97	26300	109000	109	32000
2	105000	98	27600	93300	112	28200	109000	114	33500
3	100000	99	26900	86300	121	28200	110000	122	36200
4	93200	105	26500	84000	133	30200	108000	110	32000
5	93800	110	27900	86800	133	31000	110000	126	37400
6	117000	120	37900	91200	120	29600	107000	109	31500
7	120000	118	38300	103000	107	29900	99100	86	23100
8	116000	117	36800	116000	100	31300	89100	79	19100
9	115000	113	34900	115000	94	29300	80300	76	16500
10	105000	106	30000	123000	93	30900	75100	73	14800
11	94600	107	27400	132000	96	34200	72700	72	14200
12	90700	115	28100	144000	126	49400	74700	118	23800
13	92500	119	29800	153000	170	70300	75400	130	26500
14	92400	122	30500	159000	178	76300	66300	105	18800
15	92200	116	28900	148000	183	73200	63400	97	16600
16	95700	106	27200	138000	200	74800	64400	96	16700
17	108000	96	27800	138000	175	65300	66100	---	e17500
18	114000	92	28500	135000	143	52400	71900	---	e21700
19	112000	99	30000	134000	144	52100	72900	---	e22600
20	104000	109	30800	136000	150	55100	73400	---	e24000
21	94800	115	29400	137000	136	50400	71000	---	e21300
22	87700	117	27800	128000	115	39600	68800	---	e18500
23	84200	101	22900	126000	113	38400	72100	---	e20900
24	87900	93	22200	118000	113	36100	77300	---	e25500
25	97300	115	30100	112000	99	30000	79500	---	e27800
26	96700	113	29600	112000	96	29000	76600	---	e24800
27	92800	102	25600	116000	106	33200	73500	---	e21400
28	90200	91	22200	114000	113	34800	72400	---	e18600
29	92000	90	22300	112000	135	40700	70200	---	e15700
30	93800	89	22600	111000	130	38900	72100	---	e14700
31	98400	89	23600	---	---	---	72100	---	e14200

07020500 MISSISSIPPI RIVER AT CHESTER, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
		JANUARY			FEBRUARY			MARCH	
1	70700	---	e13400	212000	325	187000	459000	1550	1920000
2	71500	---	e13100	217000	362	212000	451000	1440	1750000
3	72300	---	e12700	197000	369	197000	424000	1270	1460000
4	71300	---	e12000	185000	327	164000	381000	1010	1040000
5	72000	---	e11700	176000	248	118000	335000	748	679000
6	74800	---	e12000	160000	235	102000	305000	661	546000
7	75300	---	e12000	152000	196	80800	292000	681	537000
8	75200	---	e11900	143000	226	87200	280000	662	501000
9	75700	59	12100	139000	227	85100	266000	529	380000
10	74700	67	13500	173000	413	198000	252000	381	260000
11	73500	62	12400	246000	681	457000	239000	303	195000
12	73500	62	12300	310000	945	793000	229000	349	216000
13	71200	59	11400	330000	1000	892000	223000	374	225000
14	72500	59	11600	313000	812	686000	212000	290	166000
15	83000	66	14800	288000	686	534000	210000	266	150000
16	89300	79	19000	269000	568	413000	238000	327	211000
17	99400	97	26000	254000	453	310000	293000	489	390000
18	96800	89	23200	241000	377	245000	367000	804	805000
19	97500	81	21500	227000	369	226000	416000	1600	1800000
20	101000	91	24600	216000	308	180000	429000	1550	1790000
21	100000	87	23600	208000	284	159000	420000	1240	1400000
22	103000	101	28000	199000	273	147000	402000	956	1040000
23	104000	119	33600	188000	264	134000	381000	746	769000
24	101000	106	28800	183000	270	133000	361000	631	615000
25	98600	101	26900	241000	494	334000	350000	572	541000
26	93100	94	23700	354000	1120	1080000	345000	608	567000
27	89100	87	21000	410000	1440	1590000	345000	607	566000
28	86000	84	19400	446000	1520	1830000	340000	587	539000
29	82000	81	18000	---	---	---	331000	537	480000
30	94000	89	23000	---	---	---	314000	479	407000
31	165000	199	90800	---	---	---	296000	423	338000
		APRIL			MAY			JUNE	
1	282000	379	289000	417000	259	291000	340000	308	282000
2	268000	337	245000	420000	237	269000	346000	309	289000
3	268000	297	214000	421000	273	310000	365000	314	309000
4	265000	265	190000	420000	282	320000	397000	340	366000
5	274000	262	194000	418000	291	328000	430000	507	591000
6	306000	303	250000	413000	282	314000	469000	1090	1380000
7	323000	326	284000	413000	267	297000	502000	1290	1750000
8	318000	356	305000	419000	250	282000	532000	1400	2010000
9	306000	317	262000	429000	309	357000	562000	1420	2150000
10	305000	292	240000	447000	458	553000	583000	1300	2040000
11	307000	313	259000	460000	699	869000	590000	1150	1830000
12	330000	485	434000	460000	732	909000	585000	998	1580000
13	362000	666	651000	455000	722	886000	564000	858	1310000
14	378000	730	745000	454000	562	689000	534000	723	1040000
15	378000	660	673000	463000	479	599000	501000	599	812000
16	377000	620	632000	469000	551	697000	469000	555	703000
17	383000	613	633000	473000	505	645000	442000	552	659000
18	387000	612	640000	478000	530	684000	431000	631	734000
19	391000	599	633000	487000	505	664000	439000	593	702000
20	393000	575	610000	494000	522	696000	443000	549	657000
21	394000	460	490000	501000	552	747000	434000	511	598000
22	396000	438	468000	503000	579	786000	415000	474	531000
23	398000	408	439000	496000	539	722000	412000	502	558000
24	400000	372	402000	485000	474	621000	432000	710	828000
25	406000	399	437000	470000	409	519000	448000	944	1140000
26	412000	440	490000	453000	348	426000	450000	1080	1320000
27	416000	400	449000	432000	314	367000	443000	1050	1250000
28	415000	378	423000	407000	302	331000	429000	952	1100000
29	414000	332	372000	380000	364	372000	407000	829	912000
30	415000	294	329000	357000	366	352000	386000	704	733000
31	---	---	---	344000	325	302000	---	---	---

07020500 MISSISSIPPI RIVER AT CHESTER, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
		JULY			AUGUST			SEPTEMBER	
1	369000	578	576000	183000	284	141000	137000	153	56600
2	354000	453	434000	191000	234	121000	132000	146	51800
3	342000	351	324000	200000	252	136000	118000	139	44300
4	334000	291	263000	187000	265	134000	105000	133	38000
5	328000	281	249000	174000	258	121000	103000	130	36200
6	325000	281	247000	170000	250	114000	104000	127	35700
7	329000	280	249000	169000	220	100000	101000	124	33800
8	331000	281	251000	166000	180	80500	99400	124	33100
9	319000	301	259000	163000	160	70700	104000	148	41500
10	301000	325	264000	161000	150	65300	109000	147	43300
11	282000	281	215000	160000	143	61600	102000	140	38400
12	264000	250	179000	152000	160	66000	104000	143	40200
13	254000	212	146000	142000	150	57400	113000	169	51700
14	238000	218	140000	133000	146	52400	121000	176	57500
15	226000	227	139000	119000	149	47800	120000	169	54500
16	220000	235	140000	97000	151	39400	121000	168	54900
17	212000	233	133000	92400	152	38000	120000	153	49400
18	200000	252	136000	90800	154	37700	114000	135	41600
19	195000	273	144000	98900	153	40900	105000	130	36800
20	198000	290	155000	101000	152	41300	104000	127	35500
21	188000	277	141000	99500	156	41800	104000	153	43200
22	186000	251	126000	98000	161	42700	145000	330	132000
23	182000	200	98800	99700	160	43100	178000	366	176000
24	178000	262	126000	107000	208	61000	177000	289	138000
25	187000	311	157000	142000	263	101000	164000	232	103000
26	185000	238	119000	144000	211	82200	153000	196	80800
27	178000	228	110000	128000	136	47500	141000	180	68500
28	181000	245	120000	119000	112	36100	136000	173	63400
29	196000	262	139000	118000	112	35600	140000	210	79600
30	202000	287	157000	125000	122	41100	141000	213	81000
31	191000	314	162000	134000	137	49300	---	---	---

07020550 SOUTH FORK SALINE CREEK NEAR PERRYVILLE, MO

LOCATION.--Lat 37°44'13", long 89°55'42", Perry County, Hydrologic Unit 07140105, on State Route T, 0.13 mi northeast of junction of State Highways M and T, .25 mi west of I-55, 2.5 mi west of Perryville.

DRAINAGE AREA.--55.3 mi^2.

PERIOD OF RECORD.--June 10, 1998 to current year.

GAGE.--Water stage recorder. Datum of gage 444.70 ft above sea level.

REMARKS.--Records poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	6.4	9.5	e8.4	24	e50	14	11	20	32	23	22
2	4.4	6.3	9.9	e8.7	21	e41	14	13	18	13	20	18
3	4.4	6.7	9.3	e10	18	37	27	9.1	17	10	18	17
4	4.6	7.4	8.9	e9.9	17	33	143	8.8	20	874	17	17
5	4.8	7.8	8.7	e9.5	16	28	125	8.6	19	107	16	16
6	5.2	12	7.9	e9.9	15	25	80	7.5	19	51	15	15
7	4.8	9.9	7.4	e9.9	14	22	59	10	18	37	14	14
8	4.9	7.9	7.0	e9.9	14	21	46	9.4	16	31	11	14
9	5.4	9.9	7.8	e11	52	18	38	8.6	13	24	21	12
10	5.0	11	8.1	e11	84	18	33	8.1	11	23	47	10
11	5.2	10	61	e10	53	17	29	7.7	8.9	21	150	9.7
12	4.5	9.9	61	e9.9	39	17	25	7.8	7.8	21	59	9.7
13	4.6	11	40	e11	35	16	22	7.6	8.1	18	36	9.2
14	4.8	10	27	24	45	15	21	8.1	9.3	16	27	9.2
15	6.1	8.6	20	29	e117	15	22	7.3	12	14	27	9.0
16	8.8	7.9	19	26	e167	18	20	6.7	10	13	18	8.8
17	33	8.0	e20	22	e103	17	18	8.0	12	17	40	7.9
18	14	8.8	e18	19	e66	16	17	14	7.5	189	97	11
19	10	9.1	e16	17	e50	16	16	146	7.0	298	52	16
20	8.4	8.0	e15	16	e46	15	15	44	12	214	44	12
21	7.8	7.6	e15	14	e42	14	15	49	23	114	36	11
22	8.0	7.4	e13	13	e38	15	14	37	14	66	31	10
23	8.2	8.3	e12	14	e38	15	14	28	12	69	27	9.9
24	7.6	8.3	e12	15	e210	15	13	22	13	66	25	9.5
25	8.2	38	e11	14	e700	15	12	19	11	56	25	8.9
26	8.0	30	e11	13	e226	14	13	18	12	47	31	8.8
27	7.2	19	e10	11	e89	13	12	16	8.3	42	28	8.9
28	7.9	14	e10	10	e66	13	11	14	15	94	25	8.3
29	8.6	12	e9.9	14	---	13	10	12	14	71	22	8.5
30	7.8	10	e9.5	31	---	14	10	12	15	46	21	8.6
31	7.4	---	e9.1	29	---	14	---	21	---	29	18	---
MEAN	7.55	11.0	16.3	14.8	85.9	19.7	30.3	19.3	13.4	87.8	33.6	11.7
MAX	33	38	61	31	700	50	143	146	23	874	150	22
MIN	4.4	6.3	7.0	8.4	14	13	10	6.7	7.0	10	11	7.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	9.47	13.8	17.4	55.2	94.8	48.5	119	31.9	31.2	34.5	20.6	7.52
MAX	12.6	21.1	20.1	130	152	92.1	309	60.5	48.0	87.8	33.6	11.7
(WY)	1999	1999	2000	1999	1999	1999	1999	1999	2000	2001	2001	2001
MIN	7.55	9.23	16.0	14.8	47.9	19.7	17.9	15.8	13.4	9.27	6.31	4.69
(WY)	2001	2000	1999	2001	2000	2001	2000	2000	2001	2000	2000	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL MEAN	19.8		29.0		40.2	
HIGHEST ANNUAL MEAN					71.7	1999
LOWEST ANNUAL MEAN					20.0	2000
HIGHEST DAILY MEAN	669	Jun 17	874	Jul 4	4540	Apr 3 1999
LOWEST DAILY MEAN	2.7	Sep 19	4.4	Oct 1-3	2.7	Sep 19 2000
ANNUAL SEVEN-DAY MINIMUM	3.2	Sep 17	4.7	Oct 1	3.2	Sep 17 2000
MAXIMUM PEAK FLOW	---		5790[a]	Jul 4	18700[a]	Apr 3 1999
MAXIMUM PEAK STAGE	---		12.38	Jul 4	19.13	Apr 3 1999
INSTANTANEOUS LOW FLOW	---		4.4	Oct 1-3	.99	Dec 22 2000
10 PERCENT EXCEEDS	34		50		59	
50 PERCENT EXCEEDS	11		14		14	
90 PERCENT EXCEEDS	5.2		7.8		6.8	

e Estimated
a From rating extended above 5,000 ft^3/s.

07021000 CASTOR RIVER AT ZALMA, MO

LOCATION.--Lat 37°08'48", long 90°04'32", in SE $^1/_4$ sec.29, T.29 N., R.9 E., Bollinger County, Hydrologic Unit 07140107, on downstream side of left bridge pier on State Highway 51 in Zalma and 2.5 mi downstream from Perkins Creek.

DRAINAGE AREA.--423 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1920 to September 1991, November 8, 2000 to current year. Prior to October 1921 monthly discharge only published in WSP 1311.

REVISED RECORDS.--WSP 1147: 1922-23(M). WSP 1281: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 350.38 ft above sea level. January 1920 to Oct. 1, 1925, at site 500 ft upstream at datum 49.82 ft lower; Oct. 1, 1925 to Nov. 12, 1930, at site 500 ft upstream at datum 0.18 ft higher. Nov. 13, 1930 to June 8, 1953, nonrecording gage at present site and datum; June 1953 to September 1991 and October 2000 to current year, water-stage recorder at present site and datum; Dec. 18, 1949 to September 1991, auxiliary nonrecording gage 6.0 mi downstream; October 2000 to current year, auxiliary water-stage recorder 6.0 mi downstream.

REMARKS.--Records good except for estimated daily discharges and those above 2,000 ft^3/s, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1915 reached a stage of 28.0 ft, present datum, from floodmarks by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	229	171	479	912	278	159	133	73	360	77
2	---	---	216	165	436	728	273	153	139	74	287	87
3	---	---	203	164	400	625	286	149	129	72	241	89
4	---	---	191	161	376	599	425	144	125	69	209	82
5	---	---	183	159	352	544	1040	140	123	72	183	77
6	---	---	174	159	330	479	901	139	121	85	161	72
7	---	---	167	163	309	437	715	140	115	89	145	72
8	---	165	160	172	292	406	597	145	112	79	135	72
9	---	170	155	176	305	376	537	142	107	73	127	89
10	---	156	157	178	409	352	e491	135	102	69	121	83
11	---	145	173	183	642	331	e439	130	98	65	114	80
12	---	136	198	189	555	318	e415	127	93	64	106	77
13	---	140	316	199	488	311	e387	121	89	67	120	73
14	---	142	365	234	489	295	e351	117	86	69	126	70
15	---	141	325	292	599	288	e325	114	98	67	109	68
16	---	136	313	370	1050	345	306	110	104	64	100	66
17	---	128	317	397	1310	368	283	106	104	66	93	65
18	---	122	305	387	1020	363	263	105	101	78	88	66
19	---	117	289	370	806	355	249	143	92	89	87	78
20	---	113	286	349	679	346	237	177	86	94	82	86
21	---	109	260	328	591	334	228	176	83	92	78	97
22	---	106	256	308	916	324	219	172	82	88	75	94
23	---	104	235	291	960	332	215	172	81	84	72	88
24	---	114	226	276	864	319	217	167	79	82	70	82
25	---	273	e216	260	3280	301	203	157	76	95	68	77
26	---	353	e210	248	3320	288	193	151	74	102	72	75
27	---	331	204	237	1760	276	185	145	71	102	72	72
28	---	298	194	226	1230	265	177	137	70	99	72	71
29	---	270	188	255	---	262	170	129	71	1520	71	69
30	---	246	182	435	---	269	166	124	74	1260	68	68
31	---	---	176	503	---	284	---	129	---	526	73	---
MEAN	---	175	228	258	866	388	359	140	97.3	178	122	77.4
MAX	---	353	365	503	3320	912	1040	177	139	1520	360	97
MIN	---	104	155	159	292	262	166	105	70	64	68	65
IN.	---	.35	.62	.70	2.13	1.06	.95	.38	.26	.49	.33	.20

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	161	408	583	719	711	1025	1018	778	428	167	107	117
MAX	1576	2045	5507	3735	2279	3521	3645	2871	4082	1195	298	883
(WY)	1985	1985	1983	1937	1989	1945	1927	1946	1928	1976	1982	1965
MIN	37.0	59.1	72.1	60.7	95.4	98.0	142	90.2	43.9	33.4	22.5	31.5
(WY)	1921	1921	1956	1956	1934	1941	1971	1932	1936	1936	1936	1953

SUMMARY STATISTICS	FOR NOV 2000-SEP 2001		FOR PERIOD OF RECORD	
ANNUAL MEAN			519	
HIGHEST ANNUAL MEAN			1088	1950
LOWEST ANNUAL MEAN			149	1941
HIGHEST DAILY MEAN	3320	Feb 26	42700	Dec 4 1982
LOWEST DAILY MEAN	64	Jul 12,16	16	Aug 31 1936
ANNUAL SEVEN-DAY MINIMUM	66	Jul 11	19	Aug 25 1936
MAXIMUM PEAK FLOW	4100	Feb 25	97100[a]	Dec 4 1982
MAXIMUM PEAK STAGE	17.46	Feb 25	29.92	Dec 4 1982
INSTANTANEOUS LOW FLOW	61	Jul 17	16	Aug 31 1936
ANNUAL RUNOFF (INCHES)	---		16.66	
10 PERCENT EXCEEDS	488		1050	
50 PERCENT EXCEEDS	165		181	
90 PERCENT EXCEEDS	72		59	

e Estimated
[a] Discharge determined by indirect measurement.

07021000 CASTOR RIVER AT ZALMA, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF REOCRD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
14...	1205	ENVIRONMENTAL	142	9.9	86.2	7.9	225	9.4	105	21.5	12.5	.41
JAN												
17...	1150	ENVIRONMENTAL	397	13.5	102	8.0	181	3.9	--	--	--	--
MAR												
13...	1100	ENVIRONMENTAL	311	10.6	92.4	7.5	160	10.1	--	--	--	--
MAY												
09...	0900	ENVIRONMENTAL	144	6.6	71.7	7.7	210	18.9	106	21.8	12.7	.46
JUL												
19...	1325	ENVIRONMENTAL	89	4.5	56.0	7.6	239	25.9	--	--	--	--
SEP												
05...	1100	ENVIRONMENTAL	77	5.7	70.0	7.5	240	25.2	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
14...	2.1	107	108	132	0	7.3	--	3.6	<10	113	<.041	E.06	<.047
JAN													
17...	--	82	82	100	0	--	--	--	--	--	<.041	E.07	.119
MAR													
13...	--	69	69	84	0	--	--	--	--	--	<.041	.10	.351
MAY													
09...	2.7	95	95	116	0	2.4	<.2	4.5	12	94	<.041	.21	.128
JUL													
19...	--	115	114	141	0	--	--	--	--	--	E.029	.23	.132
SEP													
05...	--	116	119	145	0	--	--	--	--	--	<.040	.11	E.038

07021000 CASTOR RIVER AT ZALMA, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
14...	<.006	<.060	<.018	<.060	<10	26	73	60	27	165	--	<8.00	<.11
JAN													
17...	<.006	<.060	<.018	<.060	--	22	20	59	--	--	--	--	--
MAR													
13...	<.006	<.060	<.018	<.060	--	K6	23	21	--	--	--	--	--
MAY													
09...	.006	<.060	<.018	<.060	<10	K17	32	K100	36	145	.4	<8.00	<.11
JUL													
19...	.011	<.060	<.020	E.051	--	570	360	850	--	--	--	--	--
SEP													
05...	<.006	<.060	<.020	E.031	--	39	K63	51	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV							
14...	<4.7	90	.26	M	25.9	<.14	<31
JAN							
17...	--	--	--	--	--	--	--
MAR							
13...	--	--	--	--	--	--	--
MAY							
09...	<4.7	180	.20	M	50.9	.02	3
JUL							
19...	--	--	--	--	--	--	--
SEP							
05...	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07022000 MISSISSIPPI RIVER AT THEBES, IL

LOCATION.--Lat 37°13'00", long 89°27'50", in NW $^1/_4$ sec.17, T.15 S., R.3 W., Alexander County, Hydrologic Unit 07140105, near center span on downstream side of railroad bridge at Thebes, 5.0 mi downstream from Headwater Diversion Channel, and at mile 43.7 above Ohio River.

DRAINAGE AREA.--713,200 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--
DISCHARGE: October 1932 to current year. Monthly discharge only for some periods, published in WSP 1311. Prior to April 1941, published as "at Cape Girardeau, Mo".
GAGE HEIGHT: March 1933 to February 1938 and October 1939 to current year in reports of the U.S. Geological Survey. Prior to April 1941, published as "at Cape Girardeau, Mo". Since November 1878, under name of "at Grays Point" in files of the U.S. Army Corps of Engineers; January 1879 to May of 1896, published as "at Grays Point"; since May 1896, published as "at Cape Girardeaü in reports of the Mississippi River Commission February 1891 to February 1894; and since 1904, published as "at Cape Girardeaü in reports of the National Weather Service.

REVISED RECORDS.--WSP 1341: 1844(M). WDR MO-76-1: Drainage area, WDR MO-98-1: Extreme outside period of record.

GAGE.--Water-stage recorder. Datum of gage is 300.00 ft above sea level. Mar. 17, 1933, to Dec. 21 1934, nonrecording gage; Dec. 22, 1934, to Apr. 4, 1941, water-stage recorder, at site 8.2 mi upstream at datum 4.65 ft higher; Apr. 5, 1941, to Sept. 30, 1941, nonrecording gage at present site and datum; Oct. 1, 1941, to Oct. 11, 1943, at datum 0.07 ft higher. Prior to Apr. 5, 1941, various auxiliary gages used. Since Oct. 1, 1943, former gage at Cape Girardeau used as auxiliary gage.

REMARKS.--Water-discharge records good. Natural flow of stream affected by many reservoirs and navigation dams in the upper Mississippi River Basin and by many reservoirs and diversions for irrigation in the Missouri River Basin. U.S. Army Corps of Engineers satellite telemeter and telemark at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 4, 1844, reached an elevation of 345.14 ft, present datum, at Grays Point, from floodmarks, discharge, 1,075,000 ft^3/s, computed by the U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109000	98400	112000	77100	175000	505000	284000	414000	346000	381000	193000	139000
2	107000	99200	110000	76200	216000	506000	269000	418000	342000	365000	189000	138000
3	105000	93200	110000	77000	215000	481000	262000	421000	345000	351000	199000	132000
4	100000	87700	110000	77400	197000	432000	269000	423000	368000	346000	201000	119000
5	94400	85900	109000	76700	187000	377000	270000	422000	399000	337000	187000	109000
6	98900	89200	110000	77700	173000	331000	288000	419000	435000	329000	176000	108000
7	114000	93900	107000	79600	162000	307000	312000	417000	471000	329000	172000	108000
8	117000	106000	99700	79600	154000	294000	319000	418000	509000	331000	169000	105000
9	115000	115000	90900	80200	144000	280000	309000	426000	546000	329000	167000	104000
10	112000	116000	84000	80400	147000	264000	301000	439000	578000	314000	164000	109000
11	104000	123000	80300	79700	197000	249000	301000	456000	599000	296000	163000	110000
12	95800	131000	80000	79000	278000	234000	309000	467000	612000	279000	161000	106000
13	92700	142000	81600	78600	327000	225000	335000	464000	613000	e264000	152000	107000
14	93200	150000	80100	77400	327000	216000	361000	460000	590000	e250000	142000	113000
15	93600	153000	73900	81100	308000	206000	372000	461000	562000	e236000	133000	118000
16	93500	143000	72200	89000	291000	216000	376000	471000	524000	e227000	119000	118000
17	98800	136000	73000	96400	275000	255000	383000	475000	486000	223000	103000	119000
18	108000	136000	75100	103000	262000	321000	392000	482000	453000	212000	98900	118000
19	112000	132000	80600	102000	248000	386000	396000	501000	443000	221000	99300	112000
20	110000	132000	84500	103000	236000	420000	396000	507000	446000	221000	104000	106000
21	104000	134000	85100	105000	226000	425000	396000	516000	447000	204000	105000	104000
22	e95200	132000	83500	105000	218000	414000	395000	528000	433000	194000	104000	111000
23	e87600	126000	81900	107000	207000	395000	395000	536000	415000	189000	103000	148000
24	86500	123000	85800	108000	197000	375000	398000	530000	420000	183000	104000	172000
25	91000	119000	89600	107000	225000	359000	402000	516000	438000	184000	117000	169000
26	97200	114000	88300	104000	340000	351000	408000	497000	449000	191000	143000	158000
27	96500	114000	83500	98100	430000	348000	412000	471000	448000	187000	141000	147000
28	93300	117000	80100	93700	478000	346000	415000	442000	439000	182000	129000	138000
29	91900	115000	78300	90200	---	337000	416000	409000	423000	190000	122000	135000
30	93000	114000	76600	89400	---	322000	414000	378000	400000	205000	121000	138000
31	95200	---	77600	110000	---	302000	---	358000	---	204000	130000	---
MEAN	100200	119000	88200	89950	244300	338000	351800	456200	466000	256600	142300	123900
MAX	117000	153000	112000	110000	478000	506000	416000	536000	613000	381000	201000	172000
MIN	86500	85900	72200	76200	144000	206000	262000	358000	342000	182000	98900	104000
IN.	.16	.19	.14	.15	.36	.55	.55	.74	.73	.41	.23	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2001, BY WATER YEAR (WY)

MEAN	150000	157700	141600	135000	164400	253300	330800	321800	289300	240400	157200	143100
MAX	589600	389000	531700	333300	350400	542000	731000	655800	584100	765500	768000	539300
(WY)	1987	1986	1983	1973	1974	1985	1973	1973	1947	1993	1993	1993
MIN	45500	50080	53850	33650	46920	80260	115600	88170	72350	73290	45000	59890
(WY)	1940	1940	1956	1940	1940	1934	1934	1934	1934	1936	1936	1937

e Estimated

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1933 - 2001	
ANNUAL MEAN	146700		230900		207500	
HIGHEST ANNUAL MEAN					446000	1993
LOWEST ANNUAL MEAN					71730	1934
HIGHEST DAILY MEAN	426000	Jun 30	613000	Jun 13	978000	Aug 7 1993
LOWEST DAILY MEAN	72200	Dec 16	72200	Dec 16	24700	Jan 21 1940
ANNUAL SEVEN-DAY MINIMUM	76600	Dec 12	76600	Dec 12	26700	Jan 20 1940
MAXIMUM PEAK FLOW	---		620000	Jun 12	996000	Aug 7 1993
MAXIMUM PEAK STAGE	---		37.82	Jun 12	45.91	May 23 1995
INSTANTANEOUS LOW FLOW	---		71800	Dec 16	23400	Dec 13 1937
ANNUAL RUNOFF (INCHES)	2.80		4.40		3.95	
10 PERCENT EXCEEDS	257000		446000		404000	
50 PERCENT EXCEEDS	125000		173000		167000	
90 PERCENT EXCEEDS	86500		86300		75400	

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued
(National Stream-Quality Accounting Network)

PERIOD OF RECORD.--January 1973 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to September 1981.
WATER TEMPERATURE: October 1974 to September 1981.
SUSPENDED-SEDIMENT: October 1980 to current year.

REMARKS.--National Stream-Quality Accounting Network (NASQAN) station January 1973 to September 1986. Illinois Environmental Protection Agency station October 1986 to September 1994 (during this period, samples were analyzed by the Illinois EPA). Re-established as a NASQAN station October 1994 to current year. Sediment records fair except for estimated daily loads, which are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 705 microsiemens per centimeter, Aug. 5-7, 1980; minimum daily, 272 microsiemens per centimeter, Apr. 6, 1979.
WATER TEMPERATURE: Maximum daily, 31.5 °C, July 10, 11, 1975, and July 17, 1977; minimum daily, 0.0 °C, on several days during winter periods.
SUSPENDED-SEDIMENT CONCENTRATONS: Maximum daily mean, 3,890 mg/L, Dec. 22, 1985; minimum daily mean, 13 mg/L, Jan. 28, 1981.
SUSPENDED-SEDIMENT LOADS: Maximum daily, 6,280,000 tons, Mar. 1, 1985; minimum daily, 2,530 tons, Jan. 28, 1981.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATIONS.--Maximum daily mean, 1,380 mg/L, March 20; minimum daily mean, 82 mg/L, Jan. 13.
SUSPENDED-SEDIMENT LOADS.--Maximum daily, 2,100,000 tons, June 10; minimum daily 16,400 tons, Jan. 5.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	UV ABSORB-ANCE 254 NM, WTR FLT (units /cm) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (units /cm) (61726)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)
OCT												
04...	1345	ENVIRONMENTAL	100000	--	--	--	8.8	98	8.1	619	20.9	220
04...	1346	REPLICATE	--	--	--	--	--	--	--	--	--	--
NOV												
30...	1000	ENVIRONMENTAL	114000	38	.147	.112	12.7	96	8.0	627	4.3	230
30...	1008	BLANK	--	--	--	--	--	--	--	--	--	0
JAN												
08...	1615	ENVIRONMENTAL	79400	--	.113	.081	15.1	103	7.8	450	.7	250
08...	1623	BLANK	--	--	--	--	--	--	--	--	--	--
FEB												
07...	1345	ENVIRONMENTAL	161000	120	.178	.139	13.5	97	7.3	378	1.8	170
07...	1353	BLANK	--	--	--	--	--	--	--	--	--	--
MAR												
05...	1520	ENVIRONMENTAL	369000	400	.140	.105	11.5	85	7.2	353	3.5	150
05...	1528	BLANK	--	--	--	--	--	--	--	--	--	--
05...	1530	REPLICATE	--	380	.140	.106	--	--	--	--	--	140
19...	1525	ENVIRONMENTAL	395000	200	.126	.093	11.1	90	7.6	511	6.2	200
APR												
09...	1415	ENVIRONMENTAL	308000	140	.137	.103	5.2	50	8.1	441	13.6	180
17...	1015	ENVIRONMENTAL	382000	310	.137	.102	7.1	69	7.5	433	15.0	200
MAY												
02...	1330	ENVIRONMENTAL	420000	100	.221	.166	8.9	94	7.8	396	17.6	150
15...	0955	ENVIRONMENTAL	459000	200	.205	.151	6.8	73	7.9	411	19.5	170
JUN												
05...	0950	ENVIRONMENTAL	397000	170	.177	.130	6.9	75	8.0	506	18.7	200
05...	0958	BLANK	--	--	--	--	--	--	--	--	--	--
13...	1350	ENVIRONMENTAL	612000	4.6	.225	.167	5.2	61	7.7	363	22.5	160
JUL												
18...	1350	ENVIRONMENTAL	210000	78	.162	.117	8.5	113	7.9	521	27.8	210
18...	1401	ENVIRONMENTAL	--	--	--	--	--	--	--	--	--	--
AUG												
08...	1350	ENVIRONMENTAL	168000	94	.145	.104	6.0	84	8.2	499	30.5	200
SEP												
11...	1350	ENVIRONMENTAL	110000	--	.126	.089	5.6	71	7.8	603	26.6	210

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued
(National Stream-Quality Accounting Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ALKA-LINITY WAT DIS FIX END FIELD (mg/L as $CaCO_3$) (39036)	ALKA-LINITY WAT DIS TOT IT FIELD (mg/L as $CaCO_3$) (39086)	BICAR-BONATE WATER DIS IT FIELD (mg/L as HCO_3) (00453)	CAR-BONATE WATER DIS IT FIELD (mg/L as CO_3) (00452)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SILICA, DIS-SOLVED (mg/L as SiO_2) (00955)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)
OCT													
04...	49.8	22.4	4.12	47.8	150	151	184	0	28.0	.4	7.6	110	377
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	55.3	23.2	4.12	39.5	160	164	200	0	26.8	.4	9.1	99.3	375
30...	.05	.008	--	.2	--	--	--	--	--	--	<.02	--	--
JAN													
08...	61.0	24.6	3.96	42.0	160	161	196	0	36.8	.3	10.9	85.4	428
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
07...	42.4	15.2	5.05	27.3	120	123	150	0	39.0	.2	7.9	46.5	288
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
05...	36.6	13.1	3.95	13.5	98	98	120	0	23.3	.2	6.7	30.4	209
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
05...	35.8	11.9	3.74	12.8	--	--	--	--	24.0	.2	6.5	30.4	213
19...	53.4	17.0	4.31	22.6	140	146	179	0	24.6	.3	9.9	56.6	307
APR													
09...	47.1	15.5	4.50	16.7	--	127	--	--	22.9	.2	7.7	44.1	274
17...	49.5	18.8	3.23	17.0	120	124	151	0	32.6	.2	7.9	31.8	281
MAY													
02...	39.6	13.5	3.92	12.9	110	111	136	0	16.6	.2	10.2	36.6	249
15...	45.3	14.6	4.22	12.5	110	112	137	0	15.2	.2	10.8	43.3	247
JUN													
05...	52.2	18.0	4.66	18.4	140	138	168	0	21.1	.3	10.0	63.8	321
05...	<.01	<.008	--	<.1	--	--	--	--	--	--	<.1	--	--
13...	42.4	13.0	4.07	10.9	110	109	133	0	12.9	.2	9.5	33.5	729
JUL													
18...	54.5	18.7	4.64	23.8	150	153	186	0	19.4	.3	10.7	67.3	333
AUG													
08...	51.2	18.3	4.02	22.1	--	--	--	--	20.8	.3	7.3	63.4	297
SEP													
11...	50.3	19.5	5.27	40.7	140	144	176	0	34.8	.3	4.2	101	364

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (mg/L as N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	NITRO-GEN, PAR TICULTE WAT FLT SUSP (mg/L as N) (49570)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (mg/L as C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (mg/L as C) (00688)	CARBON, ORGANIC DIS-SOLVED (mg/L as C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (mg/L as C) (00689)
OCT													
04...	<.020	.37	.74	1.00	.023	--	.144	.121	.248	--	--	4.4	1.2
04...	--	--	--	--	--	.322	--	--	--	.3	<.1	4.5	2.3
NOV													
30...	<.041	.45	.81	1.61	.019	.263	.183	.127	.257	2.3	<.1	4.9	2.3
30...	<.002	--	--	<.005	<.001	--	--	<.007	--	--	--	--	--
JAN													
08...	.342	.70	.88	2.15	.011	.172	.122	.111	.191	1.5	<.1	4.3	1.5
08...	--	--	--	--	--	<.022	--	--	--	<.1	<.1	.23	<.1
FEB													
07...	.346	.93	1.6	2.30	.023	.574	.148	.100	.465	6.0	--	6.5	--
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
05...	.243	.76	2.1	2.56	.018	.897	.103	.085	.776	9.9	.1	5.0	9.8
05...	--	--	--	--	--	<.022	--	--	--	<.1	<.1	.17	<.1
05...	.249	.71	2.0	2.61	.019	1.1	.104	.086	.825	10	.2	5.1	10
19...	.155	.61	1.7	3.06	.029	.848	.128	<.007	.714	7.3	.3	4.4	7.0
APR													
09...	.049	.50	1.4	3.38	.040	.728	.134	.130	.551	3.5	<.1	4.7	3.5
17...	E.031	.51	1.3	4.58	.057	.769	.124	.110	.398	5.3	<.1	4.5	5.3
MAY													
02...	<.041	.50	1.0	3.32	.054	.674	.091	.070	.291	5.1	<.1	9.2	5.1
15...	<.040	.48	1.4	3.18	.032	.898	.113	.094	.516	9.6	<.1	4.5	9.6
JUN													
05...	<.040	.42	1.4	3.86	.051	1.1	.140	.127	.534	9.2	<.1	5.4	9.2
05...	.002	--	--	<.005	<.001	--	--	<.007	--	--	--	--	--
13...	<.040	.46	1.3	2.83	.056	.912	.102	.085	.587	10	<.1	11	10
JUL													
18...	<.040	.42	.84	2.75	.015	.360	.156	.141	.314	3.6	<.1	6.5	3.5
AUG													
08...	E.029	.38	1.1	1.83	.020	.426	.135	.124	.283	2.8	<.1	4.8	2.8
SEP													
11...	<.040	.38	.65	.719	.051	.772	.156	.141	.254	7.2	<.1	4.8	7.1

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued
(National Stream-Quality Accounting Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PHEO-PHYTIN A, PHYTO-PHYTON (µg/L) (62360)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (µg/L) (70953)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ANTI-MONY, DIS-SOLVED (µg/L as Sb) (01095)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BARIUM, DIS-SOLVED (µg/L as Ba) (01005)	BERYL-LIUM, DIS-SOLVED (µg/L as Be) (01010)	BORON, DIS-SOLVED (µg/L as B) (01020)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CHRO-MIUM, DIS-SOLVED (µg/L as Cr) (01030)
OCT													
04...	--	K50	220	54	--	--	--	2.3	--	--	124	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	7.7	200	K420	K510	13.0	68	1.66	E1.6	299	<.06	117	.04	E.4
30...	--	--	--	--	--	<.3	.43	--	6.0	<.20	<2	<.30	<.2
JAN													
08...	3.8	K130	48	480	6.2	--	--	1.5	--	--	78	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
07...	23	540	680	2400	10.3	--	--	1.3	--	--	43	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
05...	15	340	480	7400	7.3	2	.17	1.0	60.9	<.06	28	.05	<.8
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
05...	13	--	--	--	6.2	3	.16	1.0	57.9	<.06	26	.09	<.8
19...	10	540	580	6400	10.6	--	--	1.3	--	--	42	--	--
APR													
09...	--	K90	K58	K770	--	--	--	1.4	--	--	31	--	--
17...	25	200	460	440	8.9	--	--	1.1	--	--	33	--	--
MAY													
02...	5.8	92	220	K80	3.7	3	.29	1.4	69.6	<.06	33	E.02	<.8
15...	15	210	820	400	10.5	--	--	2.1	--	--	34	--	--
JUN													
05...	11	1000	700	890	10.3	--	--	2.2	--	--	49	--	--
05...	--	--	--	--	--	<1	<.05	<.2	<1.0	<.06	<7	<.04	<.8
13...	6.1	K250	K200	K150	3.8	--	--	1.8	--	--	33	--	--
JUL													
18...	8.9	K10	100	K7	12.2	--	--	2.7	--	--	63	--	--
AUG													
08...	20	140	160	22	35.2	5	.35	2.9	89.6	<.06	62	E.03	<.8
SEP													
11...	29	330	K420	45	50.1	--	--	3.3	--	--	82	--	--

DATE	COBALT, DIS-SOLVED (µg/L as Co) (01035)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LITHIUM DIS-SOLVED (µg/L as Li) (01130)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MOLYB-DENUM, DIS-SOLVED (µg/L as Mo) (01060)	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	STRON-TIUM, DIS-SOLVED (µg/L as Sr) (01080)	VANA-DIUM, DIS-SOLVED (µg/L as V) (01085)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)
OCT													
04...	--	--	20	--	24.4	--	--	--	<2.4	--	324	<10.0	--
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	.26	2.5	60	.11	20.1	6.1	2.7	1.95	<2.4	<1.0	284	<8.0	19
30...	<.20	<.2	<3	<.30	--	<.1	<.2	<.50	--	<.2	.53	--	<.5
JAN													
08...	--	--	10	--	16.8	--	--	--	1.3	--	296	2.8	--
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
07...	--	--	M	--	6.9	--	--	--	.9	--	168	2.3	--
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
05...	.16	2.1	10	E.04	3.1	3.7	1.3	1.65	.7	<1.0	127	1.8	2
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
05...	.16	2.1	10	E.05	2.9	3.5	1.2	1.70	.7	<1.0	121	1.8	2
19...	--	--	<10	--	9.0	--	--	--	1.2	--	210	1.8	--
APR													
09...	--	--	M	--	6.0	--	--	--	1.3	--	163	1.8	--
17...	--	--	20	--	3.0	--	--	--	.8	--	114	2.2	--
MAY													
02...	.15	1.9	M	E.05	5.6	1.6	1.5	1.00	.8	<1.0	134	2.7	2
15...	--	--	<10	--	7.1	--	--	--	1.4	--	158	4.8	--
JUN													
05...	--	--	<10	--	10.2	--	--	--	1.3	--	196	3.0	--
05...	<.02	E.2	<10	<.08	<.3	<.1	<.2	<.06	<.3	<1.0	<.08	<.2	<1
13...	--	--	<10	--	5.2	--	--	--	.9	--	148	3.3	--
JUL													
18...	--	--	<10	--	15.6	--	--	--	1.3	--	229	3.9	--
AUG													
08...	.18	2.2	<10	E.04	11.5	.4	3.1	.62	1.2	<1.0	214	4.6	1
SEP													
11...	--	--	<10	--	19.8	--	--	--	1.7	--	266	4.9	--

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued
(National Stream-Quality Accounting Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	2,6-DIETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETOCHLOR, WATER FLTRD REC (µg/L) (49260)	ALACHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DISSOLVED (µg/L) (34253)	ATRAZINE, WATER, DISS, REC (µg/L) (39632)	BENFLURALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYLATE, WATER, DISS, REC (µg/L) (04028)	CARBARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBOFURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLORPYRIFOS DISSOLVED (µg/L) (38933)	CYANAZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (µg/L) (04040)
OCT													
04...	<.002	<.010	<.002	<.005	.164	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.009
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	<.002	<.004	<.002	<.005	.109	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.032
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
08...	<.002	.013	<.002	<.005	.108	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.040
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
07...	<.002	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006
MAR													
05...	<.002	.013	<.002	<.005	.148	E.004	<.002	E.006	<.020	<.005	E.013	<.003	E.029
05...	<.002	<.004	<.002	<.005	E.002	E.006	<.002	E.006	<.020	E.004	<.018	E.003	E.002
05...	<.002	.015	<.002	<.005	.164	<.010	<.002	E.006	<.020	<.005	E.013	<.003	E.037
19...	<.002	.046	.012	<.005	.191	<.010	<.002	<.041	<.020	<.005	E.006	<.003	E.037
APR													
09...	<.002	.030	.336	<.005	.326	<.010	<.002	<.041	<.020	<.005	.025	<.003	E.043
17...	<.002	.065	.008	<.005	.412	<.010	<.002	E.007	<.020	<.005	E.008	<.003	E.029
MAY													
02...	<.002	.060	.006	<.005	.294	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.048
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
05...	<.002	.350	.032	<.005	1.55	<.010	<.002	<.041	<.020	<.005	E.008	<.003	E.211
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	<.002	.305	.090	<.005	1.01	<.010	<.002	<.041	<.020	<.005	E.007	<.003	E.312
JUL													
18...	<.002	.081	.017	<.005	.739	<.010	<.002	<.041	<.020	<.005	E.004	<.003	E.118
AUG													
08...	<.002	.044	.010	<.005	.465	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.125
SEP													
11...	<.002	.015	<.002	<.005	.199	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.051

DATE	DIAZINON, DISSOLVED (µg/L) (39572)	DIELDRIN DISSOLVED (µg/L) (39381)	DISULFOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHALFLURALIN WAT FLT 0.7 µ GF, REC (µg/L) (82663)	ETHOPROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DISSOLVED (µg/L) (39341)	LINURON WATER FLTRD 0.7µ GF, REC (µg/L) (82666)	MALATHION, DISSOLVED (µg/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARATHION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METOLACHLOR WATER DISSOLV (µg/L) (39415)
OCT													
04...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.041
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.020	.033
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
08...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.034
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
07...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013
MAR													
05...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.103
05...	E.003	.007	<.021	<.002	E.006	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.002
05...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.107
19...	E.004	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	.025	.075
APR													
09...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.183
17...	E.004	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.010	.365
MAY													
02...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.318
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
05...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.753
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	E.004	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.672
JUL													
18...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.270
AUG													
08...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.150
SEP													
11...	.010	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.060

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued
(National Stream-Quality Accounting Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA-THION, DIS-SOLVED (µg/L) (39542)	PEB-ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO-PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)
OCT													
04...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.007	<.004	<.010	<.011
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.006	<.004	<.010	<.011
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
08...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.005	<.004	<.010	<.011
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
07...	<.006	<.002	<.007	<.003	<.007	<.020	<.010	<.006	<.011	<.015	<.004	<.010	<.011
MAR													
05...	E.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.005	<.004	<.010	<.011
05...	<.006	<.002	<.007	E.004	<.007	<.002	E.007	<.006	<.011	<.015	<.004	<.010	<.011
05...	<.006	<.002	<.007	E.003	<.007	<.002	<.010	<.006	<.011	E.005	<.004	<.010	<.011
19...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011
APR													
09...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.003	<.004	<.010	<.011
17...	.009	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.004	<.004	<.010	<.011
MAY													
02...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.003	<.004	<.010	<.011
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
05...	.030	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.005	<.004	<.010	<.011
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	.030	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.005	<.004	<.010	<.011
JUL													
18...	.009	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.007	<.004	<.010	<.011
AUG													
08...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.009	<.004	<.010	<.011
SEP													
11...	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	E.010	<.004	<.010	<.011

DATE	PRO-PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI-MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER-BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)	URANIUM NATURAL DIS-SOLVED (µg/L as U) (22703)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 mm (70331)	SEDI-MENT, SUS-PENDED (mg/L) (80154)
OCT											
04...	<.023	<.011	<.016	<.034	<.017	<.005	<.002	<.009	--	83	77
04...	--	--	--	--	--	--	--	--	--	84	77
NOV											
30...	<.023	.037	<.016	<.034	<.017	<.005	<.002	<.009	2.10	46	84
30...	--	--	--	--	--	--	--	--	<.20	--	--
JAN											
08...	<.023	E.011	<.016	<.034	<.017	<.005	<.002	<.009	--	55	58
08...	--	--	--	--	--	--	--	--	--	48	49
FEB											
07...	--	--	--	--	--	--	--	--	--	63	333
07...	<.023	<.011	<.016	<.034	<.017	<.005	<.002	<.009	--	--	--
MAR											
05...	<.023	.046	<.016	<.034	<.017	<.005	<.002	E.005	.85	81	866
05...	<.023	<.011	<.016	<.034	<.017	E.003	E.003	E.006	--	--	--
05...	<.023	.050	<.016	<.034	<.017	<.005	<.002	E.004	.81	83	826
19...	<.023	.014	<.016	<.034	<.017	<.005	<.002	<.009	--	77	756
APR											
09...	<.023	E.009	<.016	<.034	<.017	<.005	<.002	E.004	--	86	737
17...	<.023	.047	<.016	<.034	<.017	<.005	<.002	<.009	--	88	669
MAY											
02...	<.023	.015	<.016	<.034	<.017	<.005	<.002	<.009	1.44	70	257
15...	--	--	--	--	--	--	--	--	--	84	562
JUN											
05...	<.023	.072	<.016	<.034	<.017	<.005	<.002	<.009	--	86	508
05...	--	--	--	--	--	--	--	--	<.02	--	--
13...	<.023	.045	<.016	<.034	<.017	<.005	<.002	<.009	--	89	546
JUL											
18...	<.023	.016	<.016	<.034	<.017	<.005	<.002	<.009	--	89	162
AUG											
08...	<.023	E.010	<.016	<.034	<.017	<.005	<.002	<.009	2.48	95	153
SEP											
11...	<.023	E.009	<.016	<.034	<.017	<.005	<.002	<.009	--	96	150

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
		OCTOBER			NOVEMBER			DECEMBER	
1	109000	144	42600	98400	121	32200	112000	109	33000
2	107000	155	44700	99200	120	32000	110000	119	35200
3	105000	135	38000	93200	117	29400	110000	131	38900
4	100000	137	36900	87700	129	30500	110000	118	35100
5	94400	143	36400	85900	131	30400	109000	95	27900
6	98900	152	40600	89200	132	31800	110000	96	28500
7	114000	153	47200	93900	111	28300	107000	101	28900
8	117000	161	51000	106000	126	35900	99700	115	30900
9	115000	154	47700	115000	137	42300	90900	92	22600
10	112000	151	45500	116000	124	39000	84000	90	20400
11	104000	143	40200	123000	143	47600	80300	97	21100
12	95800	144	37200	131000	168	59500	80000	102	22000
13	92700	151	37800	142000	140	53800	81600	---	e21600
14	93200	152	38400	150000	151	61300	80100	---	e20300
15	93600	136	34400	153000	157	64900	73900	---	e18200
16	93500	121	30500	143000	150	58000	72200	---	e17400
17	98800	133	35400	136000	159	58500	73000	---	e17200
18	108000	124	35900	136000	153	56000	75100	---	e17300
19	112000	119	36000	132000	114	40700	80600	---	e19500
20	110000	117	34700	132000	112	40000	84500	---	e23200
21	104000	140	38900	134000	125	45100	85100	---	e23700
22	e95200	130	33500	132000	130	46200	83500	---	e22700
23	e87600	131	31300	126000	169	57400	81900	---	e21600
24	86500	123	28800	123000	126	41700	85800	---	e23600
25	91000	122	30100	119000	131	42000	89600	---	e26700
26	97200	117	30800	114000	130	40200	88300	---	e25800
27	96500	107	27800	114000	149	45900	83500	---	e22600
28	93300	104	26300	117000	141	44500	80100	---	e20800
29	91900	118	29400	115000	135	41700	78300	---	e19500
30	93000	121	30400	114000	137	42000	76600	---	e18300
31	95200	111	28700	---	---	---	77600	---	e18200
		JANUARY			FEBRUARY			MARCH	
1	77100	---	e17700	175000	232	113000	505000	1310	1790000
2	76200	---	e17200	216000	475	278000	506000	1260	1720000
3	77000	---	e17100	215000	537	311000	481000	1090	1410000
4	77400	---	e16800	197000	447	238000	432000	912	1070000
5	76700	---	e16400	187000	386	195000	377000	829	845000
6	77700	84	17500	173000	355	166000	331000	636	569000
7	79600	97	20900	162000	340	149000	307000	553	458000
8	79600	104	22300	154000	258	107000	294000	465	369000
9	80200	97	21000	144000	198	77100	280000	394	298000
10	80400	98	21300	147000	210	83200	264000	323	230000
11	79700	97	20900	197000	305	167000	249000	269	181000
12	79000	96	20400	278000	607	462000	234000	238	151000
13	78600	82	17500	327000	959	848000	225000	213	129000
14	77400	95	19900	327000	1160	1020000	216000	184	107000
15	81100	117	25600	308000	858	715000	206000	177	98800
16	89000	109	26100	291000	633	497000	216000	187	109000
17	96400	121	31700	275000	496	368000	255000	220	153000
18	103000	141	39000	262000	434	307000	321000	355	311000
19	102000	142	38900	248000	395	265000	386000	714	753000
20	103000	146	40500	236000	300	191000	420000	1380	1570000
21	105000	128	36200	226000	273	166000	425000	1330	1520000
22	105000	123	34700	218000	239	140000	414000	1080	1210000
23	107000	147	42400	207000	218	122000	395000	843	900000
24	108000	120	35100	197000	222	118000	375000	682	692000
25	107000	113	32600	225000	294	179000	359000	578	561000
26	104000	104	29200	340000	477	450000	351000	515	488000
27	98100	99	26100	430000	924	1080000	348000	496	466000
28	93700	103	26200	478000	1170	1510000	346000	478	447000
29	90200	91	22100	---	---	---	337000	508	462000
30	89400	92	22100	---	---	---	322000	472	412000
31	110000	126	38200	---	---	---	302000	396	323000

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued
(National stream-quality accounting network station)

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)	MEAN DISCHARGE (cfs)	MEAN CONCEN-TRATION (mg/L)	SEDIMENT DISCHARGE (tons/day)
		APRIL			MAY			JUNE	
1	284000	358	275000	414000	289	323000	346000	302	282000
2	269000	323	235000	418000	276	312000	342000	273	252000
3	262000	309	219000	421000	312	355000	345000	277	261000
4	269000	297	215000	423000	276	315000	368000	342	342000
5	270000	251	183000	422000	269	307000	399000	541	585000
6	288000	264	205000	419000	235	266000	435000	---	e813000
7	312000	340	287000	417000	240	270000	471000	---	e1060000
8	319000	375	323000	418000	259	292000	509000	---	e1420000
9	309000	401	335000	426000	268	308000	546000	---	e1810000
10	301000	346	281000	439000	321	382000	578000	---	e2100000
11	301000	319	259000	456000	534	659000	599000	---	e1840000
12	309000	358	299000	467000	820	1030000	612000	---	e1410000
13	335000	533	484000	464000	846	1060000	613000	612	1010000
14	361000	704	687000	460000	705	876000	590000	511	814000
15	372000	752	756000	461000	556	692000	562000	466	708000
16	376000	718	730000	471000	507	644000	524000	446	631000
17	383000	685	709000	475000	531	681000	486000	398	522000
18	392000	672	711000	482000	498	647000	453000	376	460000
19	396000	652	697000	501000	507	681000	443000	410	490000
20	396000	654	700000	507000	498	680000	446000	600	723000
21	396000	592	633000	516000	471	657000	447000	788	951000
22	395000	513	547000	528000	441	630000	433000	909	1060000
23	395000	463	494000	536000	446	645000	415000	810	909000
24	398000	427	460000	530000	417	597000	420000	801	910000
25	402000	361	391000	516000	331	461000	438000	1090	1290000
26	408000	399	440000	497000	304	407000	449000	1250	1510000
27	412000	426	474000	471000	292	372000	448000	1100	1340000
28	415000	417	468000	442000	275	328000	439000	889	1060000
29	416000	369	413000	409000	270	299000	423000	750	858000
30	414000	337	377000	378000	322	331000	400000	574	621000
31	---	---	---	358000	337	326000	---	---	---
		JULY			AUGUST			SEPTEMBER	
1	381000	478	492000	193000	255	133000	139000	161	60300
2	365000	407	401000	189000	221	113000	138000	141	52900
3	351000	349	330000	199000	192	103000	132000	135	48100
4	346000	311	290000	201000	203	110000	119000	145	46600
5	337000	278	253000	187000	226	114000	109000	142	41900
6	329000	259	230000	176000	231	110000	108000	130	38000
7	329000	218	193000	172000	224	104000	108000	128	37200
8	331000	220	197000	169000	194	88400	105000	128	36200
9	329000	232	206000	167000	162	73100	104000	128	36100
10	314000	252	213000	164000	145	64200	109000	151	44600
11	296000	285	228000	163000	141	62000	110000	191	56800
12	279000	271	204000	161000	134	58200	106000	139	39700
13	e264000	212	150000	152000	132	54300	107000	122	35000
14	e250000	178	120000	142000	128	49400	113000	120	36600
15	e236000	168	107000	133000	122	44000	118000	111	35500
16	e227000	153	94100	119000	128	41100	118000	109	34600
17	223000	156	93200	103000	126	35100	119000	111	35500
18	212000	235	134000	98900	139	37200	118000	117	37200
19	221000	525	315000	99300	149	40000	112000	137	41400
20	221000	533	319000	104000	137	38400	106000	162	46200
21	204000	382	211000	105000	122	34400	104000	167	46700
22	194000	254	133000	104000	110	30900	111000	135	40200
23	189000	203	104000	103000	108	30000	148000	152	61200
24	183000	166	82200	104000	105	29600	172000	229	107000
25	184000	156	77600	117000	112	35300	169000	327	150000
26	191000	220	113000	143000	130	50100	158000	323	137000
27	187000	246	124000	141000	153	58300	147000	317	126000
28	182000	203	99600	129000	131	45600	138000	285	106000
29	190000	235	120000	122000	115	37900	135000	232	84400
30	205000	245	136000	121000	107	35000	138000	192	71200
31	204000	243	134000	130000	121	42700	---	---	---

e Estimated

07035800 ST. FRANCIS RIVER NEAR MILL CREEK, MO

LOCATION.--Lat 37°30'09", long 90°27'28", in NE $^1/_4$ sec.35, T.33 N., R.5 E., Madison County, Hydrologic Unit 08020202, on downstream side of Highway E bridge, 8.7 mi southwest of Mill Creek, and 2.9 mi downstream from Little St. Francis River.

DRAINAGE AREA.--505 mi^2.

PERIOD OF RECORD.--February 1987 to September 1997, October 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 556.27 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges and period Oct. 1 to Nov. 5, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	9.4	87	95	541	753	222	119	94	19	320	21
2	15	9.0	78	82	416	629	222	110	153	31	208	21
3	10	9.2	73	79	346	529	1090	103	123	26	146	25
4	7.2	11	65	78	310	454	4200	95	141	22	115	25
5	5.5	13	59	79	281	389	2570	89	172	19	92	20
6	4.8	20	56	86	254	340	1430	87	135	18	73	16
7	4.2	43	54	103	234	309	986	85	116	24	59	14
8	3.8	65	51	140	222	282	737	81	102	30	49	14
9	3.5	61	48	167	1070	262	572	73	91	23	44	17
10	3.3	64	48	163	2490	242	466	66	78	19	41	16
11	3.2	56	238	168	1190	228	400	60	65	16	38	16
12	3.1	50	802	208	791	221	357	52	56	17	73	15
13	3.0	52	496	263	691	221	313	46	46	17	450	13
14	2.9	52	361	602	1400	200	277	41	39	15	156	13
15	2.9	46	272	867	1760	195	292	38	37	16	83	15
16	4.0	43	255	612	2220	318	315	35	40	15	54	12
17	9.0	38	263	452	1400	389	274	32	42	18	39	11
18	50	33	241	372	935	344	245	51	35	16	36	13
19	41	29	217	321	724	313	223	305	32	23	33	20
20	33	25	185	282	598	292	212	188	27	53	28	30
21	27	23	175	245	499	272	201	151	28	45	26	25
22	23	23	155	223	491	260	185	e200	45	40	25	20
23	20	22	150	206	452	267	182	e158	73	63	21	18
24	17	24	138	193	1950	253	210	e127	73	210	17	18
25	15	152	126	174	9950	235	201	e105	49	895	22	17
26	13	317	126	166	2560	218	174	e88	35	640	46	16
27	12	241	125	157	1400	204	159	e77	28	433	54	15
28	11	162	123	148	975	196	148	e67	23	335	62	14
29	10	124	120	234	---	195	139	60	21	1680	43	13
30	9.8	102	113	908	---	202	128	55	20	882	30	12
31	9.4	---	111	738	---	216	---	64	---	528	24	---
MEAN	12.9	64.0	175	278	1291	304	571	93.8	67.3	200	80.9	17.2
MAX	50	317	802	908	9950	753	4200	305	172	1680	450	30
MIN	2.9	9.0	48	78	222	195	128	32	20	15	17	11
IN.	.03	.14	.40	.63	2.66	.69	1.26	.21	.15	.46	.18	.04

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	91.6	826	804	827	827	807	1076	843	294	101	61.4	123
MAX	438	3774	2428	2187	1745	1296	2890	2911	899	200	179	1153
(WY)	1994	1994	1991	1993	1989	1988	1994	1990	1997	2001	1993	1993
MIN	12.9	23.9	32.7	141	153	304	159	64.5	16.4	33.1	4.18	11.5
(WY)	2001	2000	1990	2000	1996	2001	2000	1987	1988	1996	1988	1987

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	190		255		567	
HIGHEST ANNUAL MEAN					932	1994
LOWEST ANNUAL MEAN					194	2000
HIGHEST DAILY MEAN	3880	Feb 27	9950	Feb 25	72000	Nov 14 1993
LOWEST DAILY MEAN	2.9	Oct 14,15	2.9	Oct 14,15	1.8	Aug 18 1988
ANNUAL SEVEN-DAY MINIMUM	3.1	Oct 9	3.1	Oct 9	2.2	Aug 16 1988
MAXIMUM PEAK FLOW	---		14900	Feb 25	130000	Nov 14 1993
MAXIMUM PEAK STAGE	---		13.51	Feb 25	33.10	Nov 14 1993
INSTANTANEOUS LOW FLOW	---		2.9	Oct 14,15	1.7	Aug 18 1988
ANNUAL RUNOFF (INCHES)	5.11		6.86		15.26	
10 PERCENT EXCEEDS	446		553		1080	
50 PERCENT EXCEEDS	64		85		175	
90 PERCENT EXCEEDS	11		15		15	

e Estimated

07036100 ST. FRANCIS RIVER NEAR SACO, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°23'06", long 90°28'27", in NE $^1/_4$ SE $^1/_4$ NE $^1/_4$ sec.10, T.31 N., R.5 E., Madison County, Hydrologic Unit 08020202, 3.5 mi northwest of Saco,and 1.3 mi downstream from Twelve Mile Creek.

DRAINAGE AREA.--664 mi^2.

PERIOD OF RECORD--November 1983 to September 1989, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
14...	1530	ENVIRONMENTAL	171	11.6	103	7.7	369	10.0	137	25.1	18.1	3.52
JAN												
18...	0835	ENVIRONMENTAL	697	13.6	98.5	7.9	178	2.2	--	--	--	--
MAR												
12...	1410	ENVIRONMENTAL	394	12.1	105	7.7	207	9.5	--	--	--	--
MAY												
09...	1140	ENVIRONMENTAL	177	7.9	88.7	7.7	230	20.7	104	21.3	12.3	1.74
JUL												
16...	1540	ENVIRONMENTAL	56	8.7	113	7.7	230	27.5	--	--	--	--
SEP												
05...	1500	ENVIRONMENTAL	75	7.9	103	7.2	198	28.4	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
14...	18.5	120	121	148	0	24.6	.3	21.2	<10	200	<.041	.20	E.026
JAN													
18...	--	58	60	73	0	--	--	--	--	--	<.041	.14	.366
MAR													
12...	--	71	71	86	0	--	--	--	--	--	<.041	.17	.374
MAY													
09...	6.5	89	90	110	0	7.0	E.1	12.9	<10	138	<.041	.62	<.047
JUL													
16...	--	95	96	117	0	--	--	--	--	--	<.040	.24	E.027
SEP													
05...	--	75	75	91	0	--	--	--	--	--	<.040	.28	E.044

07036100 ST. FRANCIS RIVER NEAR SACO, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV 14...	<.006	<.060	<.018	<.060	<10	K1	K11	K18	E12	E18	--	<8.00	<.11
JAN 18...	E.003	<.060	<.018	<.060	--	K18	25	85	--	--	--	--	--
MAR 12...	E.003	<.060	<.018	<.060	--	K2	K3	K2	--	--	--	--	--
MAY 09...	E.004	<.060	<.018	<.060	<10	K7	K11	K7	13	35	.4	<8.00	<.11
JUL 16...	E.004	<.060	<.020	<.060	--	K4	K3	K2	--	--	--	--	--
SEP 05...	<.006	<.060	<.020	<.060	--	K4	K8	K2	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV 14...	E3.5	40	1.20	1	9.9	<.14	32	<31
JAN 18...	--	--	--	--	--	--	--	--
MAR 12...	--	--	--	--	--	--	--	--
MAY 09...	<4.7	30	.71	3	8.0	<.01	--	13
JUL 16...	--	--	--	--	--	--	--	--
SEP 05...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

07037000 BIG CREEK AT DES ARC, MO

LOCATION.--Lat 37°17'35", long 90°37'45", in SE $^1/_4$ sec.8, T.30 N., R.4 E., Iron County, Hydrologic Unit 08020202, at bridge on State Highway 143 at north edge of Des Arc, 420 ft above Black Creek, and 6.0 mi above Pond Creek.

DRAINAGE AREA.--99.6 mi^2.

PERIOD OF RECORD.--July 1983 to Sept. 30, 1997, Oct. 1, 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 507.89 ft above sea level.

REMARKS.--Records poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	14	52	30	135	137	75	52	56	33	215	24
2	12	15	48	28	112	124	81	52	57	32	151	23
3	12	14	42	26	99	112	90	52	58	29	114	18
4	12	14	37	25	92	103	137	52	62	28	93	16
5	13	13	32	25	82	95	114	51	72	28	76	13
6	14	23	29	26	77	90	89	51	65	27	65	13
7	13	30	27	28	70	83	78	51	59	25	56	12
8	13	29	25	30	68	77	70	48	57	23	49	14
9	12	33	24	33	96	74	67	47	52	22	44	25
10	12	36	23	38	386	64	66	46	49	21	40	27
11	12	35	29	41	246	62	64	45	46	18	36	22
12	11	32	168	45	177	58	61	45	42	21	36	19
13	9.6	36	145	51	156	57	59	44	37	22	34	17
14	9.1	35	114	87	284	54	58	42	35	20	30	15
15	10	32	94	198	385	56	58	40	38	19	26	16
16	19	29	86	174	481	85	59	40	43	18	23	15
17	41	27	83	139	324	108	56	40	41	18	21	14
18	33	24	77	119	232	101	54	44	37	19	21	22
19	26	23	71	106	183	95	54	150	34	19	20	29
20	22	21	65	96	153	91	53	150	32	20	19	26
21	20	20	61	86	134	84	52	131	32	20	18	23
22	19	19	55	78	154	80	52	130	36	19	16	21
23	18	18	52	72	141	85	53	111	35	19	15	19
24	17	22	49	66	354	89	56	97	32	39	14	18
25	16	87	45	61	1880	82	54	86	30	56	14	17
26	16	105	41	56	654	76	56	78	28	36	17	16
27	15	90	39	51	261	71	54	73	26	31	20	15
28	15	77	36	49	167	68	54	67	26	28	19	14
29	14	67	35	57	---	67	53	62	29	3340	18	14
30	14	58	34	167	---	70	52	59	27	1010	18	14
31	15	---	32	173	---	74	---	59	---	369	20	---
MEAN	16.1	35.9	56.5	72.9	271	83.0	66.0	67.6	42.4	175	43.8	18.4
MAX	41	105	168	198	1880	137	137	150	72	3340	215	29
MIN	9.1	13	23	25	68	54	52	40	26	18	14	12
IN.	.19	.40	.65	.84	2.83	.96	.74	.78	.48	2.03	.51	.21

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	64.3	228	194	174	188	205	270	184	111	40.7	25.5	31.4
MAX	396	610	632	465	408	357	579	494	587	175	102	128
(WY)	1985	1986	1988	1993	1999	1985	1994	1990	1985	2001	1985	1993
MIN	16.1	22.5	25.5	37.0	38.5	83.0	45.3	28.9	15.0	11.9	7.67	6.50
(WY)	2001	1996	1990	1984	1996	2001	2000	1987	1988	1991	1983	1983

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	54.3		77.9		143	
HIGHEST ANNUAL MEAN					267	1985
LOWEST ANNUAL MEAN					55.6	2000
HIGHEST DAILY MEAN	1000	Feb 26	3340	Jul 29	7500	Nov 14 1993
LOWEST DAILY MEAN	7.5	Sep 21	9.1	Oct 14	2.8	Sep 4 1999
ANNUAL SEVEN-DAY MINIMUM	9.0	Sep 17	11	Oct 9	3.5	Sep 1 1999
MAXIMUM PEAK FLOW	---		9700	Jul 29	25700[a]	Nov 14 1993
MAXIMUM PEAK STAGE	---		10.17	Jul 29	16.85	Nov 14 1993
INSTANTANEOUS LOW FLOW	---		8.3	Oct 14-15	2.5	Sep 4 1999
ANNUAL RUNOFF (INCHES)	7.42		10.62		19.47	
10 PERCENT EXCEEDS	110		132		283	
50 PERCENT EXCEEDS	28		43		53	
90 PERCENT EXCEEDS	13		15		15	

[a] Discharge determined by indirect measurement.

07037300 BIG CREEK AT SAM A. BAKER STATE PARK
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°15'40", long 90°30'23", in SE $^1/_4$ NE $^1/_4$ SW $^1/_4$ sec.21, T.30 N., R.5 E., Wayne County, Hydrologic Unit 08020202, at Bridge 435 on County Highway NN in Sam A. Baker State Park.

DRAINAGE AREA.--189 mi^2.

PERIOD OF RECORD.--November 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
13...	1520	ENVIRONMENTAL	70	11.1	104	8.1	310	12.4	150	29.4	17.9	.87
JAN												
17...	1530	ENVIRONMENTAL	246	17.4	133	7.9	225	4.8	--	--	--	--
MAR												
13...	1250	ENVIRONMENTAL	106	11.7	108	7.8	220	12.6	--	--	--	--
13...	1251	REPLICATE	--	--	--	--	--	--	--	--	--	--
MAY												
08...	1515	ENVIRONMENTAL	54	8.9	102	8.2	264	21.4	130	26.1	15.6	.69
JUL												
17...	0800	ENVIRONMENTAL	20	5.5	68	7.7	294	25.1	--	--	--	--
SEP												
05...	1330	ENVIRONMENTAL	23	5.6	71	7.5	281	26.9	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
13...	3.7	139	142	173	0	5.2	<.2	10.4	<10	165	<.041	<.08	.060
JAN													
17...	--	96	96	118	0	--	--	--	--	--	<.041	E.07	.223
MAR													
13...	--	98	98	119	0	--	--	--	--	--	<.041	.08	.274
13...	--	--	--	--	--	--	--	--	--	--	<.041	.08	.275
MAY													
08...	3.8	118	115	140	0	3.9	<.2	9.5	<10	156	<.041	E.07	.083
JUL													
17...	--	134	136	166	0	--	--	--	--	--	<.040	E.07	.072
SEP													
05...	--	128	127	155	0	--	--	--	--	--	<.040	.09	.076

07037300 BIG CREEK AT SAM A. BAKER STATE PARK--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
13...	<.006	<.060	<.018	<.060	<10	K2	K13	K8	<15	<28	--	<8.00	<.11
JAN													
17...	<.006	<.060	<.018	<.060	--	K4	K5	22	--	--	--	--	--
MAR													
13...	<.006	<.060	<.018	<.060	--	K1	K1	K4	--	--	--	--	--
13...	<.006	<.060	<.018	<.060	--	--	--	--	--	--	--	--	--
MAY													
08...	E.004	<.060	<.018	<.060	<10	K1	K3	K9	8	18	.2	<8.00	<.11
JUL													
17...	E.004	<.060	<.020	<.060	--	40	K62	42	--	--	--	--	--
SEP													
05...	<.006	<.060	<.020	<.060	--	K6	K7	K14	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV								
13...	<4.7	<10	E.04	<1	3.6	<.14	38	<31
JAN								
17...	--	--	--	--	--	--	--	--
MAR								
13...	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--
MAY								
08...	<4.7	M	.09	<1	7.6	<.01	--	2
JUL								
17...	--	--	--	--	--	--	--	--
SEP								
05...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07037500 ST. FRANCIS RIVER NEAR PATTERSON, MO

LOCATION.--Lat 37°11'40", long 90°30'12", in NE $^1/_4$ sec.16, T.29 N., R.5 E., Wayne County, Hydrologic Unit 08020202, near left bank on downstream side of bridge pier on State Highway 34, 1 mi upstream from Clark Creek, and 3 mi east of Patterson.

DRAINAGE AREA.--956 mi^2.

PERIOD OF RECORD.--October 1920 to Sept. 30, 1997, Oct. 1, 1998 to current year. Prior to June 1921, monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 732: 1922-23.

GAGE.--Water-stage recorder. Datum of gage is 370.45 ft above sea level. Prior to Oct. 1, 1938, nonrecording gage at site 50 ft upstream at datum 2.00 ft higher; Oct. 1, 1938, to Apr. 12, 1939, nonrecording gage; Apr. 13, 1939, to Sept. 5, 1956, water-stage recorder at site 50 ft upstream at present datum; Sept. 6, 1956, to Sept. 26, 1958, nonrecording gage at present site and datum.

REMARKS.--Records fair. U.S. Army Corps of Engineer satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1915 reached a stage of 33.8 ft, present datum, from floodmarks, discharge, 100,000 ft^3/s, from rating curve extended above 55,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	65	334	216	1490	1970	544	296	171	101	1290	106
2	50	69	299	211	1200	1670	562	277	173	101	951	94
3	50	69	271	197	982	1460	611	258	195	93	733	83
4	48	66	246	176	836	1300	2900	241	242	91	577	74
5	46	64	227	168	729	1120	4870	226	240	115	457	68
6	51	84	209	165	644	974	2990	217	272	119	369	65
7	47	131	195	172	569	858	2130	217	278	110	303	64
8	41	142	183	187	513	766	1710	219	239	93	293	63
9	37	181	173	218	589	686	1430	198	212	82	246	73
10	36	237	171	264	2800	619	1210	180	190	78	224	79
11	36	237	181	288	3030	562	1040	168	172	78	176	81
12	35	228	547	303	2020	523	919	155	155	80	158	75
13	34	237	1460	339	1610	508	815	139	135	83	161	70
14	33	232	1110	549	1900	471	720	128	118	75	278	64
15	32	222	844	1510	2810	466	681	118	132	68	340	61
16	44	212	687	1750	3910	620	668	107	125	63	236	56
17	83	194	631	1400	3500	844	665	98	119	60	171	55
18	107	178	605	1120	2480	935	597	101	105	57	142	61
19	97	167	555	943	1920	856	539	171	100	60	124	84
20	136	153	504	805	1620	788	494	590	92	65	109	90
21	144	141	435	690	1410	730	466	561	91	65	98	88
22	129	134	385	595	1510	681	434	480	93	73	90	81
23	111	125	347	525	1380	687	417	544	91	130	81	81
24	98	130	330	470	1500	699	424	425	89	123	75	80
25	87	292	302	417	14500	651	440	332	104	270	72	72
26	80	460	281	376	8660	598	424	288	124	737	73	65
27	75	717	270	349	3560	545	381	258	131	717	78	61
28	71	625	258	326	2500	503	358	231	123	622	75	58
29	66	483	248	350	---	484	334	202	146	8970	86	56
30	67	385	237	819	---	501	313	182	116	4410	98	54
31	66	---	225	1770	---	527	---	178	---	1950	107	---
MEAN	67.4	222	411	570	2506	794	1003	251	152	637	267	72.1
MAX	144	717	1460	1770	14500	1970	4870	590	278	8970	1290	106
MIN	32	64	171	165	513	466	313	98	89	57	72	54
IN.	.08	.26	.50	.69	2.73	.96	1.17	.30	.18	.77	.32	.08

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	356	1030	1307	1467	1576	2105	2361	1713	912	327	211	243
MAX	3391	6214	12380	6725	4577	6981	9221	7145	8724	2513	1478	2103
(WY)	1985	1994	1983	1950	1951	1945	1927	1943	1928	1957	1985	1965
MIN	29.0	48.1	60.9	64.9	125	178	287	139	33.6	21.3	11.2	14.8
(WY)	1954	1954	1954	1956	1963	1941	1981	1930	1936	1936	1936	1955

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	457		566		1131	
HIGHEST ANNUAL MEAN					2731	1985
LOWEST ANNUAL MEAN					343	1941
HIGHEST DAILY MEAN	10000	Feb 27	14500	Feb 25	107000	Dec 4 1982
LOWEST DAILY MEAN	25	Sep 19,21	32	Oct 15	8.0	Aug 28 1936
ANNUAL SEVEN-DAY MINIMUM	27	Sep 17	35	Oct 9	8.4	Aug 26 1936
MAXIMUM PEAK FLOW	---		20900	Feb 25	155000	Dec 3 1982
MAXIMUM PEAK STAGE	---		18.03	Feb 25	35.77	Dec 3 1982
INSTANTANEOUS LOW FLOW	---		31	Oct 14-16	8.0	Aug 28 1936
ANNUAL RUNOFF (INCHES)	6.51		8.04		16.07	
10 PERCENT EXCEEDS	1110		1390		2310	
50 PERCENT EXCEEDS	186		227		337	
90 PERCENT EXCEEDS	50		65		53	

07039000 WAPPAPELLO LAKE AT WAPPAPELLO, MO

LOCATION.--Lat 36°55'42", long 90°17'04", in NW $^1/_4$ SE $^1/_4$ sec.3, T.26 N., R.7 E., Wayne County, Hydrologic Unit 08020202, at intake tower at dam on St. Francis River, 0.8 mi southwest of Wappapello, and at mile 309.

DRAINAGE AREA.--1,310 mi^2, approximately.

PERIOD OF RECORD.--April 1941 to current year.

GAGE.--Datum of gage is sea level. Prior to June 19, 1941, nonrecording gage at same site and datum. U.S. Army Corps of Engineers satellite telemeter at station.

REMARKS.--Lake is formed by earthfill type dam. Closure of channel at dam began July 10, 1940; river began to flow through outlet structure July 24, 1940. Stop logs placed in outlet structure and storage began Apr. 1, 1941; conservation pool level reached Apr. 20, 1941. Capacity at bottom of outlet tunnels (elevation,339.0 ft), 2,600 ac-ft; at conservation pool level (elevation, 355.0 ft), 30,900 ac-ft; at spillway crest (elevation, 395.0 ft), 613,000 ac-ft; at maximum pool level (elevation, 410.4 ft), uncontrollable above spillway crest, 1,022,000 ac- ft. Lake is used for flood control, power and recreational purposes. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records furnished by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 729,800 ac-ft, Apr. 16, 1945, elevation, 399.35 ft; minimum, since initial filling to conservation pool level, 23,340 ac-ft, Mar. 1-3, 1970; elevation, 352.20 ft, Sept. 26- 27, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 87,300 ac-ft, July 31, elevation, 362.47 ft; minimum, 31,400 ac-ft, Mar. 15, elevation, 354.84 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	359.91	359.89	359.82	358.03	357.91	360.20	355.55	359.73	360.13	359.94	362.24	359.93
2	359.91	359.95	359.76	357.99	357.71	359.68	355.63	359.76	360.11	359.92	361.92	359.94
3	359.91	359.96	359.72	357.96	357.36	359.14	355.79	359.80	360.06	359.90	361.58	359.97
4	359.91	359.98	359.72	357.93	357.05	358.61	355.97	359.83	360.05	359.86	361.27	359.98
5	359.92	359.93	359.75	357.89	356.68	358.15	357.11	359.86	360.03	359.85	360.97	359.98
6	360.04	359.92	359.76	357.88	356.29	357.55	358.34	359.87	360.02	359.80	360.71	359.98
7	360.02	359.99	359.79	357.88	355.92	357.01	358.80	359.90	360.02	359.77	360.45	359.96
8	360.00	359.91	359.78	357.88	355.63	356.53	359.06	359.94	360.01	359.75	360.24	359.93
9	359.98	359.95	359.78	357.90	355.29	356.05	359.14	359.92	359.98	359.76	360.07	360.06
10	359.97	359.89	359.82	357.91	355.25	355.79	359.10	359.89	359.95	359.80	359.94	360.05
11	359.96	359.81	359.85	357.91	355.89	355.51	358.97	359.86	359.91	359.83	359.83	360.02
12	359.96	359.74	359.87	357.92	356.33	355.27	358.94	359.85	359.88	359.80	359.77	359.97
13	359.95	359.83	359.70	357.92	356.21	355.10	358.90	359.79	359.81	359.88	359.86	359.94
14	359.95	359.84	e359.62	357.97	356.06	354.97	358.89	359.74	359.77	359.84	359.77	359.90
15	359.95	359.84	e359.52	358.00	355.91	354.84	358.94	359.73	359.88	359.78	359.71	359.86
16	359.98	359.85	359.38	358.25	356.25	354.94	358.93	359.72	359.83	359.73	359.66	359.80
17	359.99	359.87	359.18	358.27	356.83	354.93	358.98	359.73	359.80	359.72	359.68	359.80
18	359.93	359.86	358.80	358.18	356.98	354.98	358.98	359.75	359.77	359.73	359.67	359.80
19	359.89	359.85	358.66	358.16	356.71	355.05	359.02	359.92	359.78	359.90	359.73	359.87
20	359.85	359.89	358.50	358.13	356.28	355.11	359.05	359.94	359.80	359.93	359.73	359.86
21	359.78	359.87	358.40	358.11	355.81	355.13	359.16	360.13	359.80	359.92	359.73	359.87
22	359.76	359.85	e358.33	358.04	355.76	355.13	359.26	360.22	359.88	359.89	359.74	359.89
23	359.75	359.85	358.25	357.97	355.71	355.15	359.30	360.25	359.84	359.88	359.75	359.89
24	359.77	359.84	e358.21	357.92	355.49	355.20	359.43	360.26	359.78	359.87	359.76	359.94
25	359.79	360.02	e358.19	357.85	356.51	355.12	359.45	360.24	359.77	359.86	359.76	359.92
26	359.81	360.03	e358.16	357.79	360.31	355.09	359.46	360.17	359.78	359.89	359.77	359.91
27	359.82	360.04	358.12	357.81	361.20	355.11	359.52	360.15	359.88	360.03	359.82	359.91
28	359.85	360.06	358.12	357.78	360.87	355.17	359.59	360.14	359.86	360.11	359.83	359.91
29	359.84	359.99	358.11	357.74	---	355.27	359.64	360.12	359.89	360.30	359.84	359.91
30	359.87	359.90	358.08	357.89	---	355.38	359.71	360.08	359.86	362.26	359.85	359.91
31	359.89	---	358.05	357.92	---	355.48	---	360.10	---	362.47	359.86	---
MEAN	359.90	359.91	359.06	357.96	356.79	356.02	358.62	359.95	359.90	360.03	360.15	359.92
MAX	360.04	360.06	359.87	358.27	361.20	360.20	359.71	360.26	360.13	362.47	362.24	360.06
MIN	359.75	359.74	358.05	357.74	355.25	354.84	355.55	359.72	359.77	359.72	359.66	359.80

07039000 WAPPAPELLO LAKE AT WAPPAPELLO, MO--Continued

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64200	64000	63400	50200	49400	66600	34900	62700	66000	64400	85100	64400
2	64200	64500	63000	50000	48100	62300	35300	63000	65900	64300	82100	64400
3	64200	64600	62600	49800	45700	58200	36200	63300	65400	64100	79000	64700
4	64200	64800	62600	49600	43700	54300	37200	63500	65400	63800	76100	64800
5	64300	64400	62900	49300	41400	51100	44100	63800	65200	63700	73400	64800
6	65300	64300	63000	49200	39000	47000	52400	63900	65100	63300	71100	64800
7	65100	64800	63200	49200	36900	43500	55700	64100	65100	63000	68800	64600
8	64900	64200	63100	49200	35300	40500	57600	64400	65000	62900	67000	64400
9	64800	64500	63100	49400	33600	37600	58200	64300	64800	63000	65500	65400
10	64700	64000	63400	49400	33400	36200	57900	64000	64500	63300	64400	65400
11	64600	63400	63700	49400	36700	34700	56900	63800	64200	63500	63500	65100
12	64600	62800	63900	49500	39300	33500	56700	63700	63900	63300	63000	64700
13	64500	63500	62500	49500	38600	32600	56400	63200	63400	63900	63800	64400
14	64500	63600	e61800	49800	37700	32000	56400	62800	63000	63600	63000	64100
15	64500	63600	e61000	50000	36800	31400	56700	62700	63900	63100	62600	63800
16	64800	63700	60000	51800	38800	31800	56700	62600	63500	62700	62200	63300
17	64800	63900	58500	51900	42300	31800	57000	62700	63300	62600	62300	63300
18	64400	63800	55700	51300	43300	32000	57000	62900	63000	62700	62200	63300
19	64000	63700	54700	51100	41600	32400	57300	64300	63100	64100	62700	63900
20	63700	64000	53500	50900	39000	32700	57500	64400	63300	64400	62700	63800
21	63100	63900	52800	50800	36300	32800	58300	66000	63300	64300	62700	63900
22	63000	63700	e52300	50300	36000	32800	59100	66800	63900	64000	62800	64000
23	62900	63700	51800	49800	35700	32900	59400	67100	63600	63900	62900	64000
24	63000	63600	e51500	49500	34600	33100	60400	67100	63100	63900	63000	64400
25	63200	65100	e51300	49000	40400	32700	60500	67000	63000	63800	63000	64300
26	63400	65200	e51100	48600	67600	32600	60600	66400	63100	64000	63000	64200
27	63400	65300	50900	48800	75500	32700	61100	66200	63900	65200	63400	64200
28	63700	65400	50900	48600	72500	33000	61600	66100	63800	65900	63500	64200
29	63600	64800	50800	48300	---	33500	62000	65900	64000	67500	63600	64200
30	63900	64100	50600	49300	---	34000	62600	65600	63800	85300	63700	64200
31	64000	---	50400	49500	---	34500	---	65800	---	87300	63800	---
MEAN	64100	64200	57700	49800	42800	38300	54800	64500	64100	65300	66300	64300
MAX	65300	65400	63900	51900	75500	66600	62600	67100	66000	87300	85100	65400
MIN	62900	62800	50400	48300	33400	31400	34900	62600	63000	62600	62200	63300

e Estimated

07039500 ST. FRANCIS RIVER AT WAPPAPELLO, MO

LOCATION.--Lat 36°55'41", long 90°15'55", in NW $^1/_4$ SE $^1/_4$ sec.2, T.26 N., R.7 E., Butler County, Hydrologic Unit 08020202, on right bank at downstream side of highway bridge, 0.5 mi southeast of Wappapello, and 1.25 mi downstream from Wappapello Dam.

DRAINAGE AREA.--1,311 mi^2.

PERIOD OF RECORD.--October 1940 to Sept. 30, 1997, Oct. 1, 1998 to current year. Since January 1939 in reports of the Mississippi River Commission. Gage-height records collected in this vicinity since April 1920 are contained in reports of the U.S. Army Corps of Engineers.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 315.15 ft (revised) above sea level. Prior to Oct. 1, 1984, at datum 10.00 ft higher at present site. Prior to Oct. 14, 1940, nonrecording gage at same site.

REMARKS.--Records fair. Flow completely regulated by Wappapello Lake (station 07039000), 1.25 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1920, 30.7 ft (datum then in use), May 15, 1933, discharge 82,500 ft^3/s, determined by the U.S. Army Corps of Engineers. Maximum discharge, as determined by the U.S. Army Corps of Engineers, 85,000 ft^3/s, Aug. 1915 (stage unknown).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	87	807	438	1920	5360	473	232	370	227	2470	72
2	86	88	735	438	2210	4620	410	233	369	227	2380	72
3	86	88	483	438	2210	4100	407	233	368	226	2130	71
4	85	152	269	438	2190	3820	408	232	367	225	1880	71
5	86	258	253	398	2120	3560	582	232	366	225	1590	70
6	85	268	253	316	1990	3260	1020	232	366	224	1380	71
7	83	376	253	309	1850	2970	1280	233	365	222	1250	136
8	82	523	252	308	1630	2620	1460	289	364	101	1100	227
9	82	535	251	309	1450	2260	1550	362	363	80	969	236
10	82	529	250	382	1360	1790	1690	365	362	80	861	231
11	81	525	464	433	1460	1590	1560	365	361	81	700	229
12	81	412	1050	436	1820	1420	1200	364	359	84	473	228
13	81	257	1330	437	2320	1310	1050	363	305	113	429	227
14	80	249	1460	544	2520	1100	917	307	236	221	482	227
15	81	249	1690	686	2840	984	846	235	236	228	433	228
16	128	249	1880	999	3090	926	779	194	232	169	313	165
17	288	250	1850	1630	3490	906	662	87	231	93	188	84
18	353	251	1720	1550	3580	897	544	83	166	101	83	83
19	354	247	1370	1220	3620	895	394	82	83	104	76	84
20	354	189	1160	1070	3510	892	323	79	80	121	74	80
21	326	204	982	987	3160	891	320	147	80	231	74	80
22	267	252	826	979	2780	889	319	288	148	239	75	80
23	193	255	723	928	2690	888	321	422	227	239	78	81
24	98	259	656	859	2660	886	365	497	221	239	75	79
25	93	350	580	809	2920	885	442	502	94	240	74	79
26	93	532	574	604	3960	811	395	482	78	239	75	80
27	94	640	506	580	5380	605	298	382	79	241	73	77
28	94	869	446	578	5570	523	197	371	79	236	72	77
29	92	958	440	584	---	519	190	369	141	510	72	77
30	88	898	439	795	---	522	208	370	223	1880	72	75
31	88	---	439	1320	---	521	---	372	---	2430	73	---
MEAN	137	367	787	703	2725	1717	687	290	244	319	648	123
MAX	354	958	1880	1630	5570	5360	1690	502	370	2430	2470	236
MIN	80	87	250	308	1360	519	190	79	78	80	72	70
IN.	.12	.31	.69	.62	2.17	1.51	.58	.26	.21	.28	.57	.10

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD[a], BY WATER YEAR (WY)

MEAN	417	950	2004	2363	2346	2711	2859	2477	1423	709	380	385
MAX	3239	4959	8897	8867	7796	7072	11920	9243	5860	4866	3385	2239
(WY)	1950	1952	1983	1950	1949	1979	1945	1983	1957	1945	1945	1982
MIN	33.9	43.8	167	188	286	474	63.5	62.3	6.00	87.1	40.0	34.0
(WY)	1949	1954	1990	1981	1963	1981	1981	1987	1978	1980	1965	1955

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD[a]	
ANNUAL MEAN	695		716		1582	
HIGHEST ANNUAL MEAN					3534	1985
LOWEST ANNUAL MEAN					579	1954
HIGHEST DAILY MEAN	4660	Mar 1	5570	Feb 28	21800	Apr 16 1945
LOWEST DAILY MEAN	42	Apr 30	70	Sep 5	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	43	Apr 25	71	Aug 31	.00	At Times
MAXIMUM PEAK FLOW	---		5580	Feb 28	22300	Apr 16 1945
MAXIMUM PEAK STAGE	---		24.44	Feb 28	31.34	May 29 1991
INSTANTANEOUS LOW FLOW	---		68	Aug 30,Sep 4-6	.00	Several Years
ANNUAL RUNOFF (INCHES)	7.22		7.42		16.39	
10 PERCENT EXCEEDS	1840		1880		4060	
50 PERCENT EXCEEDS	354		363		680	
90 PERCENT EXCEEDS	46		80		42	

[a] Post-regulation period, water years 1942-1997 and 1999-2001.

07042450 ST. JOHNS DITCH NEAR HENDERSON MOUND, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°40'26", long 89°28'30", in NE $^1/_4$ NE $^1/_4$ NW $^1/_4$ sec.6, T.23 N., R.15 E., Madrid County, Hydrologic Unit 08020204, located approximately 2.5 mi east of Interstate 55 on State Highway P, and 4.0 mi south of Henderson Mound.

DRAINAGE AREA.--313 mi^2.

PERIOD OF RECORD.--October 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT												
16...	1250	ENVIRONMENTAL	40	7.9	87	7.7	281	20.1	--	--	--	--
NOV												
14...	0800	ENVIRONMENTAL	92	8.0	66	7.5	272	6.8	110	33.4	6.89	3.04
DEC												
05...	1110	ENVIRONMENTAL	104	11.9	94	7.3	274	5.3	--	--	--	--
05...	1111	REPLICATE	--	--	--	--	--	--	--	--	--	--
JAN												
17...	0850	ENVIRONMENTAL	288	11.4	87	7.5	190	4.2	79	23.8	4.76	1.99
FEB												
06...	1250	ENVIRONMENTAL	205	10.1	91	7.8	274	10.6	--	--	--	--
MAR												
13...	0720	ENVIRONMENTAL	680	8.3	74	7.4	233	10.9	--	--	--	--
APR												
02...	1315	ENVIRONMENTAL	334	9.0	87	7.7	251	13.7	--	--	--	--
MAY												
03...	0800	ENVIRONMENTAL	165	6.6	72	7.5	276	19.2	120	35.9	6.87	1.23
JUN												
18...	1300	ENVIRONMENTAL	420	6.8	90	7.7	278	29.4	--	--	--	--
JUL												
19...	0820	ENVIRONMENTAL	111	6.0	74	7.6	258	25.2	110	32.8	6.86	1.15
AUG												
14...	1550	ENVIRONMENTAL	102	10	134	7.6	261	30.3	--	--	--	--
14...	1551	REPLICATE	--	--	--	--	--	--	--	--	--	--
SEP												
11...	0825	ENVIRONMENTAL	324	6.0	66	7.4	268	19.5	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT													
16...	--	114	116	141	0	--	--	--	--	--	<.041	.26	<.047
NOV													
14...	6.6	93	93	113	0	9.3	.2	19.7	<10	156	E.025	.31	.541
DEC													
05...	--	100	101	123	0	--	--	--	--	--	<.041	.23	.205
05...	--	--	--	--	--	--	--	--	--	--	<.041	.23	.203
JAN													
17...	4.2	64	64	79	0	6.0	.2	12.5	26	131	<.041	.62	.656
FEB													
06...	--	103	102	125	0	--	--	--	--	--	<.041	.15	.139
MAR													
13...	--	85	85	104	0	--	--	--	--	--	<.041	.84	.329
APR													
02...	--	91	91	111	0	--	--	--	--	--	<.041	.46	.841
MAY													
03...	6.2	104	104	127	0	8.4	.2	17.9	22	172	<.041	.23	.209
JUN													
18...	--	102	102	124	0	--	--	--	--	--	<.040	.76	.202
JUL													
19...	7.1	94	95	116	0	8.6	.2	12.2	45	144	<.040	.47	.304
AUG													
14...	--	91	91	111	0	--	--	--	--	--	<.040	.31	.536
14...	--	--	--	--	--	--	--	--	--	--	E.023	.24	.536
SEP													
11...	--	99	100	122	0	--	--	--	--	--	<.040	.29	.073

07042450 ST. JOHNS DITCH NEAR HENDERSON MOUND, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
16...	<.006	.167	.139	.225	--	26	26	66	--	--	--	--	--
NOV													
14...	.011	.213	.200	.270	<10	72	220	1900	114	39	--	<8.00	<.11
DEC													
05...	<.006	.128	.126	.206	--	40	48	110	--	--	--	--	--
05...	<.006	.126	.125	.203	--	--	--	--	--	--	--	--	--
JAN													
17...	.015	.181	.150	.265	<10	200	400	3000	291	456	1.9	<8.00	<.11
FEB													
06...	E.005	.139	.109	.167	--	K1	K23	K14	--	--	--	--	--
MAR													
13...	.020	.088	.118	.408	--	100	240	2000	--	--	--	--	--
APR													
02...	.017	.136	.123	.317	--	K370	K270	600	--	--	--	--	--
MAY													
03...	.033	.190	.118	.261	12	K98	280	190	49	228	2.8	<8.00	<.11
JUN													
18...	.027	.222	.169	.535	--	120	240	K54	--	--	--	--	--
JUL													
19...	.015	.206	.202	.313	14	K470	300	K510	28	379	2.9	<8.00	<.10
AUG													
14...	.008	.239	.231	.321	--	K34	180	K37	--	--	--	--	--
14...	.008	.238	.232	.300	--	--	--	--	--	--	--	--	--
SEP													
11...	.021	.251	.184	.258	--	200	190	570	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)
OCT													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
14...	<4.7	170	.31	<1	62.9	<.14	36	<31	<.002	<.004	<.002	<.005	.013
DEC													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
17...	<4.7	240	.40	M	69.7	<.14	--	5	--	--	--	--	--
FEB													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
02...	--	--	--	--	--	--	--	--	<.002	<.004	<.002	<.005	.018
MAY													
03...	<4.7	150	.16	M	48.0	<.01	--	5	<.002	.005	.814	<.005	2.49
JUN													
18...	--	--	--	--	--	--	--	--	<.002	<.004	<.002	<.005	.262
JUL													
19...	<5.0	60	.14	1	31.9	.25	17	11	<.002	<.004	<.002	<.005	.045
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--

07042450 ST. JOHNS DITCH NEAR HENDERSON MOUND, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL-ATE, WATER, DISS, REC (µg/L) (04028)	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (µg/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)	DI-ELDRIN DIS-SOLVED (µg/L) (39381)	DISUL-FOTON WATER FLTRD 0.7µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7µ GF, REC (µg/L) (82663)
OCT													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
14...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.007	E.004	<.005	<.021	<.002	<.009
DEC													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
02...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.003	<.005	<.005	<.021	<.002	<.009
MAY													
03...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.056	E.003	<.005	<.021	<.002	<.009
JUN													
18...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.030	E.003	<.005	<.021	<.002	<.009
JUL													
19...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.011	<.005	<.005	<.021	<.002	<.009
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ETHO-PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS-SOLVED (µg/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA-THION, DIS-SOLVED (µg/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA-THION, DIS-SOLVED (µg/L) (39542)
OCT													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
14...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.057	.007	<.002	<.007	<.003	<.007
DEC													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
02...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.016	<.006	<.002	<.007	<.003	<.007
MAY													
03...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.045	<.006	<.002	<.007	<.003	<.007
JUN													
18...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.020	<.006	.135	<.007	<.003	<.007
JUL													
19...	<.005	<.003	<.004	<.035	.047	<.050	<.006	.092	<.006	<.002	<.007	<.003	<.007
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--

07042450 ST. JOHNS DITCH NEAR HENDERSON MOUND, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PEB-ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO-PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI-MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER-BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)
OCT													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
14...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
DEC													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
02...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	E.004	<.016	<.034	<.017
MAY													
03...	<.002	<.010	<.006	<.011	E.014	<.004	<.010	<.011	<.023	.029	<.016	<.034	<.017
JUN													
18...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
JUL													
19...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	THIO-ENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)
OCT			
16...	--	--	--
NOV			
14...	<.005	<.002	<.009
DEC			
05...	--	--	--
05...	--	--	--
JAN			
17...	--	--	--
FEB			
06...	--	--	--
MAR			
13...	--	--	--
APR			
02...	<.005	<.002	<.009
MAY			
03...	<.005	<.002	<.009
JUN			
18...	<.005	<.002	<.009
JUL			
19...	<.005	<.002	<.009
AUG			
14...	--	--	--
14...	--	--	--
SEP			
11...	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07043500 LITTLE RIVER DITCH 1 NEAR MOREHOUSE, MO

LOCATION.--Lat 36°50'03", long 89°43'48", in SW $^1/_4$ SE $^1/_4$ sec.2, T.25 N., R.12 E., Stoddard County, Hydrologic Unit 08020204, on downstream side of second pier right of left abutment of bridge on State Highway 114, 1.5 mi downstream from Little River Ditch 39, and 2.0 mi west of Morehouse.

DRAINAGE AREA.--450 mi^2.

PERIOD OF RECORD.--October 1945 to September 1991, October 1995 to current year. Prior to January 1946 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 280.76 ft above sea level. Prior to Nov. 17, 1949 and from June 11, 1951, to Feb. 22, 1962, nonrecording gage at same datum. Nov. 17, 1949, to June 10, 1951, nonrecording gage at site 50 ft downstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1945 reached a stage of 19.85 ft, from floodmark, discharge, 5,830 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	48	152	118	364	568	279	163	152	108	1120	239
2	46	48	137	121	274	435	271	158	138	95	845	135
3	46	48	128	124	236	369	315	154	137	83	467	98
4	45	46	123	116	221	1030	938	146	152	81	245	81
5	46	47	118	119	191	1570	1360	147	141	86	163	68
6	107	58	113	120	179	910	752	155	128	94	133	63
7	90	83	113	127	183	559	529	156	122	91	115	77
8	65	134	109	139	206	417	404	151	113	82	124	84
9	57	1070	104	143	236	354	329	140	108	75	127	85
10	52	786	107	142	244	316	280	138	105	74	112	172
11	50	434	118	144	236	289	271	136	102	72	104	187
12	48	252	166	141	213	282	252	145	101	75	101	126
13	48	230	184	159	198	1110	227	134	98	78	93	87
14	47	202	180	500	423	1190	224	128	97	70	88	70
15	47	159	183	949	1330	702	227	125	109	65	81	62
16	48	139	274	764	2190	794	218	118	108	61	75	58
17	48	119	454	579	2390	756	213	112	105	63	69	58
18	49	107	421	432	1280	472	207	111	111	65	69	58
19	50	103	e362	388	751	364	211	115	102	569	70	73
20	49	97	e297	334	505	321	217	123	91	2860	68	67
21	50	91	244	265	376	293	216	156	99	2090	63	63
22	49	91	209	232	1690	279	203	169	128	1270	55	60
23	52	91	194	220	2360	271	211	160	110	711	52	81
24	50	104	173	208	1480	255	198	153	95	420	50	109
25	50	1110	e158	188	3460	241	188	145	86	266	50	74
26	49	1110	144	200	2620	232	184	142	85	375	52	64
27	48	618	133	176	1600	223	172	131	82	1160	55	64
28	47	360	130	163	945	220	163	120	92	693	53	62
29	47	237	130	203	---	222	162	114	91	1450	51	59
30	48	177	124	559	---	231	161	116	94	1680	50	59
31	48	---	122	532	---	258	---	136	---	1280	112	---
MEAN	52.4	273	181	278	942	501	319	139	109	524	158	88.1
MAX	107	1110	454	949	3460	1570	1360	169	152	2860	1120	239
MIN	45	46	104	116	179	220	161	111	82	61	50	58
IN.	.13	.68	.46	.71	2.18	1.28	.79	.36	.27	1.34	.41	.22

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	169	432	635	782	874	935	862	718	394	270	185	168
MAX	944	2615	2875	4286	3646	2800	2851	2633	1564	817	658	703
(WY)	1985	1958	1983	1950	1989	1979	1979	1961	1989	1957	1985	1975
MIN	30.6	45.4	73.5	72.3	115	106	146	139	88.7	70.9	47.6	27.4
(WY)	1954	2000	1954	1981	1963	1981	1971	2001	1988	1954	1999	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	269		293		536	
HIGHEST ANNUAL MEAN					1261	1973
LOWEST ANNUAL MEAN					134	1954
HIGHEST DAILY MEAN	6040	Jan 4	3460	Feb 25	11700	Feb 15 1989
LOWEST DAILY MEAN	28	Aug 17	45	Oct 4	21	Sep 18 1954
ANNUAL SEVEN-DAY MINIMUM	34	Sep 16	48	Oct 29	24	Sep 13 1954
MAXIMUM PEAK FLOW	---		4220	Feb 25	12000	Feb 15 1989
MAXIMUM PEAK STAGE	---		10.91	Feb 25	19.30	Feb 15 1989
INSTANTANEOUS LOW FLOW	---		44	Oct 4	20	Sep 8 1999
ANNUAL RUNOFF (INCHES)	8.13		8.84		16.17	
10 PERCENT EXCEEDS	501		751		1260	
50 PERCENT EXCEEDS	125		139		201	
90 PERCENT EXCEEDS	44		52		77	

e Estimated

07046250 LITTLE RIVER DITCHES NEAR RIVES, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°05'25", long 90°04'47", in SW $^1/_4$ SE $^1/_4$ SW $^1/_4$ sec.28, T.17 N., R.9 E., Dunklin County, Hydrologic Unit 08020204. Located at the Little River Ditches bridge chain on State Highway 164. Samples are taken during high flow from the three western most ditches.

PERIOD OF RECORD.--November 1969 to June 1970, August 1972 to September 1973, July 1977 to June 1989, November 1992 to current year.

REMARKS.--Analyses represent a composite of water from five ditches. Bacteria is usually taken from Ditch 66. Published as Little River Ditches near Kennett (07046001) for periods of record from November 1969 to September 1993.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT												
17...	0743	ENVIRONMENTAL	249	5.6	61	8.1	414	19.3	--	--	--	--
NOV												
14...	0915	ENVIRONMENTAL	443	7.0	60	7.3	245	9.0	96	25.8	7.79	8.33
DEC												
05...	0830	ENVIRONMENTAL	1010	11.3	85	7.8	255	3.6	--	--	--	--
JAN												
03...	1000	ENVIRONMENTAL	1433	12.6	87	7.7	251	.5	190	52.0	15.0	2.80
03...	1001	REPLICATE	--	--	--	--	--	--	190	52.0	15.0	3.00
FEB												
07...	0840	ENVIRONMENTAL	411	10.2	88	8.2	354	9.2	--	--	--	--
MAR												
13...	0940	ENVIRONMENTAL	2160	8.6	80	7.9	293	12.1	--	--	--	--
APR												
03...	0915	ENVIRONMENTAL	668	8.5	84	7.9	307	15.6	--	--	--	--
MAY												
08...	0915	ENVIRONMENTAL	507	8.2	91	8.0	414	20.6	180	50.6	13.1	2.07
JUN												
19...	0830	ENVIRONMENTAL	350	4.4	59	8.0	393	29.9	--	--	--	--
JUL												
18...	0915	ENVIRONMENTAL	275	3.9	49	8.1	417	27.2	170	45.2	13.2	1.47
AUG												
15...	0800	ENVIRONMENTAL	599	4.9	61	7.5	226	26.3	--	--	--	--
SEP												
10...	1340	ENVIRONMENTAL	478	6.5	82	8.2	362	25.8	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT													
17...	--	164	162	197	0	--	--	--	--	--	<.041	.43	<.047
NOV													
14...	7.2	74	74	91	0	12.5	.2	20.3	50	171	.059	.86	1.14
DEC													
05...	--	111	111	130	0	--	--	--	--	--	E.023	.47	.314
JAN													
03...	17.0	159	162	197	0	22.0	.2	28.0	14	268	.094	.42	.040
03...	16.0	--	--	--	--	22.0	.1	29.0	14	268	.081	.56	.110
FEB													
07...	--	141	141	172	--	--	--	--	--	--	<.041	.49	.129
MAR													
13...	--	94	92	113	0	--	--	--	--	--	.108	1.0	.076
APR													
03...	--	117	118	144	0	--	--	--	--	--	.057	.68	.318
MAY													
08...	12.3	171	172	210	0	14.6	.2	24.0	46	236	<.041	.35	.052
JUN													
19...	--	138	139	170	0	--	--	--	--	--	<.040	.56	.079
JUL													
18...	13.9	162	161	198	0	16.9	.2	23.9	56	244	<.040	.53	E.025
AUG													
15...	--	88	90	110	0	--	--	--	--	--	E.024	.52	.148
SEP													
10...	--	138	139	159	5	--	--	--	--	--	E.024	.53	E.029

07046250 LITTLE RIVER DITCHES NEAR RIVES, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
17...	<.006	.104	.080	.181	--	42	K99	66	--	--	--	--	--
NOV													
14...	.037	.337	.273	.225	19	230	210	260	462	1930	2.4	<8.00	<.11
DEC													
05...	.007	.138	.136	.221	--	K19	K25	50	--	--	--	--	--
JAN													
03...	.030	.050	.030	.080	8	K1	K1	K11	41	51	1.6	<.05	<.10
03...	<.010	.070	.050	.120	<5	--	--	--	44	51	1.7	<.05	<.10
FEB													
07...	E.005	.079	.077	.155	--	K9	K12	24	--	--	--	--	--
MAR													
13...	.073	.150	.047	.428	--	K11	K20	K61	--	--	--	--	--
APR													
03...	.021	.062	.076	.209	--	K13	K12	K21	--	--	--	--	--
MAY													
08...	.006	.103	.091	.179	13	42	88	85	26	592	2.3	<8.00	<.11
JUN													
19...	.022	.126	.092	.216	--	K13	64	40	--	--	--	--	--
JUL													
18...	E.005	.132	.124	.202	18	K5	K8	20	26	598	3.8	<8.00	E.05
AUG													
15...	.010	.166	.151	.242	--	42	150	230	--	--	--	--	--
SEP													
10...	E.004	.124	.097	.183	--	K17	100	100	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)
OCT													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
14...	E4.6	440	.73	2	59.3	<.14	--	15	<.002	.008	<.002	<.005	1.81
DEC													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
03...	1.1	130	.20	1	160	<.10	30	12	--	--	--	--	--
03...	.9	130	.20	M	160	<.10	26	27	--	--	--	--	--
FEB													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	--	--	--	--	--	--	--	--	<.002	<.004	.006	<.005	.033
APR													
03...	--	--	--	--	--	--	--	--	<.002	<.004	.009	<.005	3.16
MAY													
08...	<4.7	20	E.05	1	57.4	<.01	22	8	<.002	<.004	.014	<.005	.344
JUN													
19...	--	--	--	--	--	--	--	--	<.002	.005	.021	<.005	.914
JUL													
18...	<5.0	30	E.04	1	18.5	.20	--	9	<.002	<.004	<.002	<.005	.232
AUG													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--

07046250 LITTLE RIVER DITCHES NEAR RIVES, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL-ATE, WATER, DISS, REC (µg/L) (04028)	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (µg/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)	DI-ELDRIN DIS-SOLVED (µg/L) (39381)	DISUL-FOTON WATER FLTRD 0.7µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7µ GF, REC (µg/L) (82663)
OCT													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
14...	<.010	<.002	<.041	<.020	<.005	.020	<.003	E.210	<.005	<.005	<.021	<.002	<.009
DEC													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	<.010	<.002	<.041	E.007	<.005	E.006	<.003	E.004	<.005	<.005	<.021	<.002	<.009
APR													
03...	<.010	<.002	<.041	<.020	<.005	E.008	<.003	E.033	<.005	<.005	<.021	<.002	<.009
MAY													
08...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.028	<.005	<.005	<.021	<.002	<.009
JUN													
19...	<.010	<.002	<.041	<.020	<.005	.032	<.003	E.167	<.005	<.005	<.021	<.002	<.009
JUL													
18...	<.010	<.002	<.041	<.020	<.005	E.016	<.003	E.039	<.005	<.005	<.021	<.002	<.009
AUG													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ETHO-PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS-SOLVED (µg/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA-THION, DIS-SOLVED (µg/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA-THION, DIS-SOLVED (µg/L) (39542)
OCT													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
14...	<.005	<.003	<.004	<.035	E.007	<.050	<.006	.113	<.006	.027	<.007	<.003	<.007
DEC													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.059	<.006	.004	<.007	<.003	<.007
APR													
03...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.363	.009	<.002	<.007	<.003	<.007
MAY													
08...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.051	<.006	.012	<.007	<.003	<.007
JUN													
19...	<.005	<.003	<.004	<.035	E.012	<.050	<.006	.641	<.006	.065	<.007	<.003	<.007
JUL													
18...	<.005	<.003	<.004	<.035	E.004	<.050	<.006	.378	<.010	.472	<.007	<.003	<.007
AUG													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--

07046250 LITTLE RIVER DITCHES NEAR RIVES, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PEBULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDIMETHALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PERMETHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PROMETON, WATER, DISS, REC (µg/L) (04037)	PRONAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPACHLOR, WATER, DISS, REC (µg/L) (04024)	PROPANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PROPARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SIMAZINE, WATER, DISS, REC (µg/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TERBACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TERBUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)
OCT													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
14...	<.002	<.010	<.006	<.011	E.008	<.004	<.010	<.011	<.023	E.011	<.016	<.034	<.017
DEC													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	<.002	E.009	<.006	<.011	<.015	<.004	<.010	<.011	<.023	E.002	<.016	<.034	<.017
APR													
03...	<.002	.055	<.006	<.011	<.015	<.004	<.010	<.011	<.023	.035	<.016	<.034	<.017
MAY													
08...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	E.005	<.016	<.034	<.017
JUN													
19...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	.018	<.023	.089	<.016	<.034	<.017
JUL													
18...	<.002	<.010	<.006	<.011	E.003	<.004	<.010	<.011	<.023	E.010	<.016	<.034	<.017
AUG													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	THIOENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIALLATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRIFLURALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)
OCT			
17...	--	--	--
NOV			
14...	<.005	<.002	<.009
DEC			
05...	--	--	--
JAN			
03...	--	--	--
03...	--	--	--
FEB			
07...	--	--	--
MAR			
13...	<.005	<.002	E.005
APR			
03...	<.005	<.002	E.004
MAY			
08...	<.005	<.002	E.005
JUN			
19...	<.005	<.002	<.009
JUL			
18...	<.005	<.002	<.009
AUG			
15...	--	--	--
SEP			
10...	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07050150 ROARING RIVER SPRING NEAR CASSVILLE, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°35'30", long 93°50'00", in SE $^1/_4$ SE $^1/_4$ NE $^1/_4$ sec.27, T.22 N., R.27 W., Barry County, Hydrologic Unit 11010001. Site at outlet of spring in Roaring River State Park.

PERIOD OF RECORD.--November 1993 to current year.

REMARKS.--Previously sampled downstream from spring and published as Roaring River at Roaring River State Park (07050152) November 1991 to October 1993.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
07...	1310	ENVIRONMENTAL	23	7.2	70.1	7.3	342	14.5	172	63.6	3.27	.76
JAN												
17...	0840	ENVIRONMENTAL	33	9.9	96.2	7.0	337	14.3	--	--	--	--
MAR												
06...	0800	ENVIRONMENTAL	85	9.6	90.4	7.1	296	13.1	--	--	--	--
MAY												
02...	1145	ENVIRONMENTAL	25	8.2	79.8	6.8	333	14.0	162	60.1	2.77	1.00
JUL												
23...	1145	ENVIRONMENTAL	22	7.6	77.0	7.2	330	14.3	--	--	--	--
SEP												
11...	0900	ENVIRONMENTAL	22	6.4	64.0	7.0	346	14.3	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
07...	4.3	152	151	185	0	8.0	<.2	3.2	<10	200	<.041	<.08	2.84
JAN													
17...	--	149	154	188	0	--	--	--	--	--	<.041	E.05	2.94
MAR													
06...	--	116	117	142	0	--	--	--	--	--	<.041	E.06	3.73
MAY													
02...	4.1	141	146	178	0	7.5	<.2	3.5	<10	182	<.041	E.06	2.81
JUL													
23...	--	143	144	176	0	--	--	--	--	--	<.040	E.06	2.77
SEP													
11...	--	152	156	190	0	--	--	--	--	--	<.040	E.06	2.83

07050150 ROARING RIVER SPRING NEAR CASSVILLE, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV 07...	<.006	<.060	.021	<.060	<10	34	44	40	<15	E16	--	<8.00	<.11
JAN 17...	<.006	<.060	.023	<.060	--	29	31	K12	--	--	--	--	--
MAR 06...	<.006	<.060	.021	E.044	--	36	35	160	--	--	--	--	--
MAY 02...	E.005	<.060	E.009	<.060	<10	K3	K4	K4	10	17	E.2	<8.00	<.11
JUL 23...	<.006	E.047	E.016	<.060	--	64	100	82	--	--	--	--	--
SEP 11...	<.006	<.060	E.014	<.060	--	35	30	23	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV 07...	<4.7	<10	E.04	<1	<3.2	<.14	<31
JAN 17...	--	--	--	--	--	--	--
MAR 06...	--	--	--	--	--	--	--
MAY 02...	<4.7	<10	<.08	<1	<3.2	<.01	4
JUL 23...	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

07050680 JONES BRANCH NEAR SPRINGFIELD, MO

LOCATION.--Lat 37°11'12", long 93°12'04", Greene County, Hydrologic Unit 11010002, 150 ft northeast of bridge on Leaning Tree Lane, 2.6 mi east of the junction of Highway 65 and State Route D.

DRAINAGE AREA.--1.45 mi^2.

PERIOD OF RECORD.--July 22, 1999 to current year.

REMARKS.--Records poor except those above 5 ft^3/s, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	e1.0	e.86	.72	2.1	6.8	1.5	1.7	2.0	2.2	5.4	3.6
2	.51	e1.9	e.81	.70	1.7	5.6	1.5	1.6	4.1	2.1	4.0	3.7
3	.52	e1.1	e.78	.67	1.5	4.7	1.7	1.5	11	1.9	3.2	3.8
4	.50	e.95	e.71	.65	1.4	4.1	1.5	1.6	7.0	2.7	3.8	3.8
5	.74	e.92	e.68	.73	1.3	3.6	1.4	1.6	3.5	25	3.1	3.7
6	1.0	e4.0	e.64	1.1	1.3	3.2	1.4	1.6	2.5	7.5	2.7	4.8
7	.76	e3.2	e.63	1.4	1.3	2.9	1.3	2.4	1.9	3.8	2.6	4.0
8	.64	e2.9	e.62	1.4	1.2	2.7	1.3	1.4	1.7	2.9	2.5	19
9	.74	e3.3	e.60	1.3	4.9	2.5	1.2	1.2	1.6	2.2	5.8	34
10	.79	e2.4	e.59	1.2	2.8	2.4	1.2	1.2	1.6	2.2	6.0	9.7
11	.76	e1.9	e.69	1.4	1.9	2.2	1.9	2.9	1.6	2.2	3.1	5.7
12	.79	e1.5	e.86	1.5	1.7	2.2	1.8	2.4	1.5	4.9	2.7	4.5
13	.63	e1.3	e.94	1.9	4.3	2.1	1.7	1.7	1.5	2.8	2.7	4.1
14	.71	e1.2	e.80	2.8	4.8	2.1	1.5	1.5	1.8	2.2	2.7	4.1
15	.80	e1.1	e.72	2.5	7.2	3.4	3.4	1.4	2.8	2.1	2.7	4.0
16	1.7	e.98	e.71	1.9	5.3	3.3	2.0	1.3	1.7	2.8	2.7	3.9
17	1.1	e.90	e.93	1.6	3.9	2.5	1.7	1.3	1.5	2.4	3.0	4.2
18	1.0	e.85	e.98	1.4	3.0	2.2	1.6	2.7	1.6	2.2	3.1	2.7
19	1.1	e.78	1.0	1.4	2.5	2.1	1.6	3.6	1.6	2.3	3.4	2.1
20	.94	e.77	1.1	1.4	2.2	2.0	1.5	2.6	1.7	5.5	2.9	2.0
21	.81	e.71	1.0	1.3	2.6	2.0	1.8	7.7	18	2.6	2.7	2.2
22	.73	e.67	.98	1.3	5.1	1.9	2.0	3.3	6.8	2.3	2.6	2.2
23	.65	e.67	.90	1.2	10	1.9	2.3	3.3	3.6	2.2	2.5	2.1
24	.69	e.69	.88	1.2	90	1.8	2.3	2.4	2.7	2.2	2.4	2.1
25	.56	e1.1	.86	1.2	51	1.8	2.2	2.1	2.3	2.2	2.3	2.1
26	.69	e1.7	.86	1.1	20	1.8	2.0	1.9	2.1	2.6	2.5	2.2
27	1.7	e2.0	.84	1.1	12	1.6	1.9	1.8	2.7	4.9	2.7	2.2
28	1.7	e1.5	.81	1.1	8.7	1.6	1.8	1.8	2.4	12	2.7	2.3
29	2.2	e1.1	.81	6.3	---	1.6	1.8	1.7	2.3	64	2.8	2.1
30	1.5	e.95	.80	4.9	---	1.5	1.7	2.2	2.5	39	3.0	1.8
31	1.1	---	.75	2.9	---	1.5	---	2.4	---	9.9	3.4	---
MEAN	.92	1.47	.81	1.65	9.13	2.63	1.75	2.19	3.32	7.28	3.15	4.96
MAX	2.2	4.0	1.1	6.3	90	6.8	3.4	7.7	18	64	6.0	34
MIN	.50	.67	.59	.65	1.2	1.5	1.2	1.2	1.5	1.9	2.3	1.8
IN.	.82	1.27	.72	1.48	7.37	2.35	1.51	1.96	2.87	6.51	2.82	4.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	.89	1.03	2.71	1.30	5.46	2.34	1.29	1.71	4.08	12.8	2.04	2.20
MAX	.92	1.47	4.62	1.65	9.13	2.63	1.75	2.19	4.84	18.3	3.15	4.96
(WY)	2001	2001	2000	2001	2001	2001	2001	2001	2000	2000	2001	2001
MIN	.85	.59	.81	.95	1.92	2.05	.84	1.22	3.32	7.28	1.02	.79
(WY)	2000	2000	2001	2000	2000	2000	2000	2000	2001	2001	1999	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL MEAN	3.03		3.23		3.25	
HIGHEST ANNUAL MEAN					3.27	2000
LOWEST ANNUAL MEAN					3.23	2001
HIGHEST DAILY MEAN	173	Jul 12	90	Feb 24	173	Jul 12 2000
LOWEST DAILY MEAN	.28	Feb 5	.50	Oct 4	.06	Nov 10 1999
ANNUAL SEVEN-DAY MINIMUM	.46	Feb 4	.64	Dec 5	.07	Nov 9 1999
MAXIMUM PEAK FLOW	---		482	Jul 29	511	Jul 12 2000
MAXIMUM PEAK STAGE	---		4.79	Jul 29	4.90	Jul 12 2000
INSTANTANEOUS LOW FLOW	---		.33	Oct 4	.05	Nov 9 1999
ANNUAL RUNOFF (INCHES)	31.97		33.98		34.24	
10 PERCENT EXCEEDS	5.0		4.8		4.9	
50 PERCENT EXCEEDS	1.0		1.9		1.4	
90 PERCENT EXCEEDS	.59		.77		.59	

e Estimated

07050690 PEARSON CREEK NEAR SPRINGFIELD, MO

LOCATION.--Lat 38°10'40", long 93°11'53", in NW $^1/_4$ NE $^1/_4$ NW $^1/_4$ sec. 35, T.29 N., R.21 W., Greene County, Hydrologic Unit 11010002, 1.4 mi east of Highway 65 and 0.13 mi south of Highway D (Sunshine).

DRAINAGE AREA.--21.0 mi^2.

PERIOD OF RECORD.--July 21, 1999 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records fair except estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	3.3	4.8	2.6	19	76	8.2	5.8	6.4	8.3	21	9.6
2	2.0	6.3	4.2	2.6	16	64	8.2	5.7	9.1	7.5	16	8.9
3	1.8	5.3	3.9	2.6	14	55	8.6	5.5	18	e7.0	13	8.3
4	1.8	4.7	3.7	2.5	11	47	8.2	5.4	18	e6.8	16	7.6
5	1.9	4.1	3.5	2.5	9.9	41	7.9	5.3	13	e70	15	7.3
6	2.7	13	3.5	3.3	8.9	36	7.6	5.4	9.6	e33	12	10
7	2.4	11	3.5	4.4	8.1	33	7.5	6.8	8.1	e22	10	9.4
8	2.1	9.4	3.3	5.0	7.6	30	7.1	5.7	7.6	e13	e8.0	39
9	2.1	11	3.0	5.3	14	28	6.9	5.2	7.0	e11	e15	97
10	2.0	10	3.0	5.3	15	25	6.6	5.0	6.4	10	24	43
11	1.9	9.5	3.4	5.6	15	23	7.7	7.6	6.1	9.1	17	29
12	1.8	9.0	3.7	6.5	14	20	8.1	8.6	5.5	14	15	22
13	1.7	8.3	4.1	9.8	17	19	7.6	7.1	5.1	11	14	18
14	1.5	7.2	3.8	17	22	17	7.2	6.3	5.4	9.5	12	15
15	1.7	6.4	3.7	20	35	19	11	5.7	8.3	8.5	11	13
16	4.0	5.6	4.8	19	42	20	9.6	5.3	6.8	9.5	11	11
17	5.0	4.7	5.3	15	35	18	8.5	5.0	6.0	8.9	11	10
18	3.7	4.3	5.3	12	28	16	7.8	7.1	5.4	8.6	14	11
19	3.0	3.9	5.1	10	25	15	7.5	9.8	5.3	8.5	15	9.9
20	2.3	3.9	4.8	9.0	21	14	7.2	8.5	e5.4	11	13	9.0
21	1.9	3.7	4.4	8.0	20	13	6.8	16	50	7.8	12	8.6
22	2.0	3.6	4.0	7.3	23	13	6.6	10	23	6.9	10	8.2
23	2.3	3.6	3.7	6.8	34	12	6.9	9.8	16	e6.4	10	7.5
24	2.4	4.1	3.4	6.4	375	11	6.8	8.3	12	e6.0	9.8	7.1
25	2.2	10	3.1	5.8	287	11	6.6	7.5	10	e5.8	9.4	6.8
26	2.4	9.6	2.9	5.5	164	11	6.3	6.7	9.1	e5.6	8.9	6.5
27	4.9	8.9	2.8	5.2	119	10	6.1	6.2	9.1	e11	8.4	6.3
28	5.2	7.4	2.6	5.1	91	9.5	6.0	5.9	8.6	55	8.0	6.2
29	4.6	6.2	2.8	14	---	9.3	5.9	5.4	9.2	e80	7.6	6.2
30	4.4	5.5	2.8	23	---	9.2	5.9	6.3	9.1	e43	7.5	6.1
31	3.7	---	2.6	22	---	8.5	---	6.9	---	e27	9.3	---
MEAN	2.70	6.78	3.73	8.68	53.2	23.7	7.43	6.96	10.6	17.5	12.4	15.2
MAX	5.2	13	5.3	23	375	76	11	16	50	80	24	97
MIN	1.5	3.3	2.6	2.5	7.6	8.5	5.9	5.0	5.1	5.6	7.5	6.1
IN.	.15	.36	.20	.48	2.64	1.30	.39	.38	.56	.96	.68	.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	3.34	5.28	10.6	6.54	31.0	17.5	6.31	6.30	11.4	38.5	8.18	6.99
MAX	3.98	6.78	17.4	8.68	53.2	23.7	7.43	6.96	12.3	59.6	12.4	15.2
(WY)	2000	2001	2000	2001	2001	2001	2001	2001	2000	2000	2001	2001
MIN	2.70	3.77	3.73	4.39	9.62	11.3	5.20	5.63	10.6	17.5	3.10	2.13
(WY)	2001	2000	2001	2000	2000	2000	2000	2000	2001	2001	1999	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL MEAN	11.2		13.8		13.0	
HIGHEST ANNUAL MEAN					13.8	2001
LOWEST ANNUAL MEAN					12.2	2000
HIGHEST DAILY MEAN	686	Jul 12	375	Feb 24	686	Jul 12 2000
LOWEST DAILY MEAN	1.5	Oct 14	1.5	Oct 14	1.5	Oct 14 2000
ANNUAL SEVEN-DAY MINIMUM	1.8	Oct 9	1.8	Oct 9	1.8	Oct 9 2000
MAXIMUM PEAK FLOW	---		480	Feb 24	2200	Jul 12 2000
MAXIMUM PEAK STAGE	---		5.12	Feb 24	7.53	Jul 12 2000
INSTANTANEOUS LOW FLOW	---		1.5	Oct 13-15	1.5	Sep 3 1999
ANNUAL RUNOFF (INCHES)	7.27		8.92		8.42	
10 PERCENT EXCEEDS	21		23		22	
50 PERCENT EXCEEDS	4.7		8.0		6.1	
90 PERCENT EXCEEDS	2.8		3.1		2.6	

e Estimated

07050690 PEARSON CREEK NEAR SPRINGFIELD, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
JUN 27...	0820	ENVIRONMENTAL	8.2	7.9	87	7.6	488	18.1	--	--	--	--
JUL 24...	0815	ENVIRONMENTAL	6.9	5.9	69	7.7	493	20.7	230	84.0	4.75	2.39
AUG 21...	0755	ENVIRONMENTAL	12	7.0	80	7.4	503	19.0	--	--	--	--
SEP 10...	1245	ENVIRONMENTAL	42	8.3	90	7.5	413	17.4	200	73.7	3.94	2.36

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
JUN 27...	--	192	195	238	0	--	--	--	--	--	E.027	.16	2.39
JUL 24...	10.9	197	198	242	0	23.8	E.1	10.3	13	276	<.040	.55	1.98
AUG 21...	--	209	208	254	0	--	--	--	--	--	<.040	.17	2.27
SEP 10...	8.2	173	173	211	0	14.2	<.2	9.3	10	238	<.040	.19	2.09

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
JUN 27...	.017	<.060	.023	E.048	--	380	K640	420	--	--	--	--	--
JUL 24...	.009	E.054	.018	E.043	11	K580	K520	K560	10	102	.4	<8.00	<.10
AUG 21...	E.005	E.054	.020	<.060	--	360	K610	400	--	--	--	--	--
SEP 10...	E.003	<.060	.023	.069	<10	1100	920	2200	42	129	.3	<8.00	<.10

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)
JUN 27...	--	--	--	--	--	--	--	<.002	<.004	<.002	<.005	<.007
JUL 24...	<5.0	10	E.06	1	38.7	<.01	7	<.002	<.004	<.002	<.005	E.005
AUG 21...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 10...	<5.0	30	.13	M	8.5	<.01	5	--	--	--	--	--

07050690 PEARSON CREEK NEAR SPRINGFIELD, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL-ATE, WATER, DISS, REC (µg/L) (04028)	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (µg/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)	DI-ELDRIN DIS-SOLVED (µg/L) (39381)	DISUL-FOTON WATER FLTRD 0.7µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7µ GF, REC (µg/L) (82663)
JUN													
27...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.021	<.002	<.009
JUL													
24...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.006	E.004	<.005	<.021	<.002	<.009
AUG													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ETHO-PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS-SOLVED (µg/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA-THION, DIS-SOLVED (µg/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA-THION, DIS-SOLVED (µg/L) (39542)
JUN													
27...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.010	<.006	<.002	<.007	<.003	<.007
JUL													
24...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.005	<.006	<.002	<.007	<.003	<.007
AUG													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PEB-ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO-PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI-MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER-BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)
JUN													
27...	<.002	<.010	<.006	<.011	.038	<.004	<.010	<.011	<.023	<.011	.020	<.034	<.017
JUL													
24...	<.002	<.010	<.006	<.011	.028	<.004	<.010	<.011	<.023	<.011	.024	<.034	<.017
AUG													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	THIO-ENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)
JUN			
27...	<.005	<.002	<.009
JUL			
24...	<.005	<.002	<.009
AUG			
21...	--	--	--
SEP			
10...	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07050700 JAMES RIVER NEAR SPRINGFIELD, MO

LOCATION.--Lat 37°09'00", long 93°12'12", in SW $^1/_4$ SE $^1/_4$ SW $^1/_4$ sec.2, T.28 N., R.21 W., Greene County, Hydrologic Unit 11010002, on right bank on county road at Kinser Bridge, 1.1 mi downstream from Pearson Creek, and 2.5 mi southeast of Springfield.

DRAINAGE AREA.--246 mi^2.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,143.27 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Dec. 19, 1955, nonrecording gage at same site and datum.

REMARKS.--Records fair except for the period June 15 to July 31, which is poor. Flows are affected by the pumping of Blackman Water Treatment Plant, 1.0 mi upstream. Several observations of water temperature were made during the year. Springfield City Utilities gage-height and U.S.G.S satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1909 reached a stage of about 22 ft, from information by local resident, discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	11	23	28	199	486	76	41	42	125	48	13
2	6.2	15	21	23	158	400	76	37	46	80	27	12
3	5.7	15	25	20	127	339	74	36	58	55	20	11
4	5.5	15	32	17	107	291	71	35	156	50	34	11
5	5.7	17	e29	18	91	249	67	34	170	253	24	11
6	7.1	26	26	20	79	219	65	34	109	315	19	14
7	5.5	32	29	18	70	193	62	33	77	180	13	15
8	7.1	36	30	19	60	179	60	33	63	115	13	41
9	6.6	30	29	21	77	165	59	26	63	67	21	236
10	6.5	28	31	22	173	152	56	28	69	56	27	198
11	5.8	28	30	17	187	139	58	37	60	44	21	97
12	4.8	29	34	21	155	129	60	40	53	91	22	60
13	5.5	27	36	41	146	119	60	36	44	239	18	38
14	5.4	36	35	136	231	111	58	34	41	149	15	25
15	5.4	20	31	269	733	115	75	30	52	104	19	21
16	9.2	28	33	221	941	125	96	28	47	92	18	18
17	13	28	36	166	497	126	101	26	46	67	21	22
18	11	33	36	131	340	119	95	30	43	40	21	22
19	9.6	31	28	109	257	112	85	32	39	48	17	12
20	8.2	24	33	90	210	104	78	76	36	42	22	11
21	7.2	15	39	72	182	96	71	75	642	42	20	17
22	7.0	15	34	61	307	97	65	112	741	50	18	21
23	7.6	14	42	49	492	101	62	86	308	45	17	23
24	7.0	13	45	42	7220	102	59	66	188	39	16	15
25	6.7	21	45	35	4860	98	55	61	115	35	15	16
26	7.2	31	34	31	1430	96	51	63	76	58	15	12
27	12	30	29	27	861	93	49	51	66	91	14	14
28	15	23	27	26	621	90	47	47	77	142	13	13
29	13	29	28	46	---	87	44	43	548	337	11	14
30	13	17	29	274	---	81	42	44	207	178	12	16
31	12	---	32	292	---	80	---	42	---	e85	13	---
MEAN	8.02	23.9	32.0	76.2	743	158	65.9	45.0	143	107	19.5	35.0
MAX	15	36	45	292	7220	486	101	112	741	337	48	236
MIN	4.8	11	21	17	60	80	42	26	36	35	11	11
IN.	.04	.11	.15	.36	3.15	.74	.30	.21	.65	.50	.09	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2001, BY WATER YEAR (WY)

MEAN	96.4	251	284	214	279	416	433	386	195	108	37.3	110
MAX	587	1327	1370	881	972	1055	1396	1672	873	1148	262	1566
(WY)	1971	1973	1983	1995	1985	1998	1994	1961	1985	1958	1958	1993
MIN	2.74	9.39	8.26	5.56	8.35	16.4	16.3	27.6	28.1	12.2	3.22	1.05
(WY)	1957	1964	1956	1981	1981	1981	1981	2000	1972	1962	1962	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1956 - 2001	
ANNUAL MEAN	50.2		117		234	
HIGHEST ANNUAL MEAN					465	1985
LOWEST ANNUAL MEAN					52.8	1956
HIGHEST DAILY MEAN	1560	Jul 12	7220	Feb 24	24500	Sep 25 1993
LOWEST DAILY MEAN	4.6	Sep 20	4.8	Oct 12	.30	Sep 16 1956
ANNUAL SEVEN-DAY MINIMUM	5.0	Sep 17	5.7	Oct 9	.53	Sep 12 1956
MAXIMUM PEAK FLOW	---		10100	Feb 24	41100	Sep 25 1993
MAXIMUM PEAK STAGE	---		14.64	Feb 24	19.45	Sep 25 1993
INSTANTANEOUS LOW FLOW	---		3.0	Oct 7	.10	Sep 16 1956
ANNUAL RUNOFF (INCHES)	2.78		6.45		12.91	
10 PERCENT EXCEEDS	109		195		504	
50 PERCENT EXCEEDS	26		40		74	
90 PERCENT EXCEEDS	6.7		12		12	

e Estimated

07052000 WILSON CREEK AT SPRINGFIELD, MO

LOCATION.--Lat 37°11'12", long 93°19'52", in SE $^1/_4$ NE $^1/_4$ SE $^1/_4$ Sec. 28, T.29 N., R.22 W., Greene County, Hydrologic Unit 11010002, 1,600 ft downstream from confluence of Jordan and Fassnight Creeks, at State Highway 88 bridge on Scenic Drive in Springfield.

DRAINAGE AREA.--17.8 mi^2.

PERIOD OF RECORD.--May 1932 to Nov. 1939, June 28, 1973 to Sept. 22, 1977, June 4, 1998 to present.

GAGE.--Water-stage recorder. Datum of gage is 1200.86 ft above sea level. May 1932 to January 1939, recorder 0.5 mi downstream and at datum 4.7 ft lower.

REMARKS.--Records fair. U.S.G.S. satellite telemeter at station.

REVISIONS.--The maximum instantaneous discharge for the 1999 water year has been revised to 3,560 ft^3/s, May 4, 1999. The maximum instantaneous discharge for 2000 water year and the period of record has been revised to 6,750 ft^3/s, July 12, 2000; the maximum daily discharge for the 2000 water year revised to 1,710 ft^3/s, July 12, 2000, superseding figures published in MO-99-1 and MO-00-1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	19	3.3	2.8	6.8	18	4.4	2.8	4.0	6.3	7.3	2.0
2	1.1	16	3.4	2.6	6.1	16	6.7	2.7	31	4.9	6.5	2.0
3	1.1	2.6	3.5	2.5	5.7	14	7.7	2.6	94	4.1	5.8	1.9
4	1.0	1.9	3.5	2.4	5.3	13	4.4	2.5	12	23	45	1.8
5	21	1.7	3.5	3.4	5.0	12	4.3	4.0	7.0	128	6.0	1.9
6	3.9	80	3.8	5.6	4.6	11	4.1	24	5.9	8.6	4.9	9.3
7	1.2	8.3	3.8	6.4	4.4	10	4.0	16	5.3	5.9	6.5	1.8
8	1.2	25	3.6	7.4	4.3	9.5	4.0	2.9	4.6	5.4	4.7	186
9	1.5	16	3.5	6.8	66	8.9	4.0	2.4	4.4	4.9	68	56
10	1.6	7.6	3.7	6.6	7.9	8.4	3.8	2.1	3.9	6.0	11	7.5
11	1.5	6.1	24	9.5	6.1	7.9	46	69	3.6	4.6	4.7	5.8
12	1.4	7.1	5.9	11	5.6	7.6	7.2	6.3	3.4	57	4.1	5.3
13	1.2	6.2	5.8	18	50	7.2	4.7	3.7	3.3	6.5	3.6	5.0
14	1.3	4.7	5.2	15	21	6.9	4.1	3.2	24	4.6	3.7	3.9
15	5.7	4.3	6.7	11	39	41	62	3.0	23	4.1	3.2	3.6
16	41	4.0	9.8	9.3	12	13	6.4	3.1	4.7	31	4.7	3.3
17	4.2	3.9	7.4	8.2	9.7	8.6	4.9	13	3.8	5.8	30	11
18	2.1	3.7	6.9	7.5	8.7	7.6	4.4	29	3.4	4.3	34	11
19	1.7	3.4	8.9	6.9	8.0	7.1	3.7	9.5	3.2	47	9.8	4.0
20	1.6	3.2	5.9	6.1	7.3	7.2	4.1	20	12	21	4.3	3.4
21	1.5	3.3	5.4	5.5	36	7.8	3.9	37	184	5.0	3.6	13
22	1.9	3.5	4.7	5.0	22	6.1	3.7	8.3	12	4.2	3.2	3.7
23	2.0	4.1	4.0	4.7	95	7.0	11	12	7.8	4.3	3.2	3.5
24	1.8	12	3.7	4.2	550	5.6	3.6	4.5	6.7	4.2	3.0	3.4
25	1.8	28	3.3	4.4	74	5.4	3.3	4.1	6.0	3.6	2.9	3.4
26	5.2	6.6	3.5	4.1	37	5.5	2.9	3.6	5.5	5.2	2.6	3.4
27	36	5.0	3.5	3.8	29	5.3	3.0	3.2	7.4	39	2.4	3.2
28	2.9	4.2	3.9	4.8	22	5.0	2.9	3.0	8.0	101	2.3	3.3
29	2.2	e3.8	4.3	76	---	4.8	2.8	2.8	51	130	2.2	3.7
30	2.0	e3.6	3.6	13	---	4.7	2.8	23	10	25	2.7	3.0
31	1.8	---	3.2	8.1	---	4.6	---	15	---	8.6	3.8	---
MEAN	5.02	9.96	5.33	9.12	41.0	9.57	7.83	10.9	18.5	23.0	9.67	12.3
MAX	41	80	24	76	550	41	62	69	184	130	68	186
MIN	1.0	1.7	3.2	2.4	4.3	4.6	2.8	2.1	3.2	3.6	2.2	1.8
IN.	.30	.57	.32	.54	2.20	.57	.45	.65	1.06	1.37	.57	.71

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	13.0	17.1	13.5	18.6	21.3	22.6	24.2	28.3	34.9	21.2	10.1	38.4
MAX	27.7	42.6	29.4	59.7	41.0	57.6	52.9	57.6	119	100	15.9	361
(WY)	1937	1974	2000	1937	2001	1935	1933	1933	1935	2000	1975	1975
MIN	5.02	7.45	5.33	4.33	6.30	7.90	4.13	8.84	6.60	5.62	4.37	3.45
(WY)	2001	1938	2001	2000	1934	1936	2000	1936	1936	1936	1999	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	17.7		13.3		18.9	
HIGHEST ANNUAL MEAN					29.9	1937
LOWEST ANNUAL MEAN					8.26	1936
HIGHEST DAILY MEAN	1710	Jul 12	550	Feb 24	2160	Sep 12 1975
LOWEST DAILY MEAN	.81	Feb 16	1.0	Oct 4	.81	Feb 16 2000
ANNUAL SEVEN-DAY MINIMUM	1.1	Feb 5	1.4	Oct 7	1.1	Feb 5 2000
MAXIMUM PEAK FLOW	---		1800[a]	Feb 24	6750[a]	Jul 12 2000
MAXIMUM PEAK STAGE	---		8.92	Feb 24	12.70	Jul 12 2000
INSTANTANEOUS LOW FLOW	---		1.0	Oct 4	.57	Oct 7 1999
ANNUAL RUNOFF (INCHES)	12.43		9.32		13.23	
10 PERCENT EXCEEDS	28		28		39	
50 PERCENT EXCEEDS	4.1		5.0		10	
90 PERCENT EXCEEDS	1.5		2.4		3.8	

e Estimated
[a] From rating extended above 600 ft^3/s by indirect measurement.

07052100 WILSON CREEK NEAR SPRINGFIELD, MO

LOCATION.--Lat 37°10'06", long 93°22'14", in NE $^1/_4$ NE $^1/_4$ Sec. 6, T.28 N., R.22 W., Greene County, Hydrologic Unit 11010002 on right bank just downstream from bridge on County Road 156, 1 mile upstream from Sewage Treatment Plant and South Creek.

DRAINAGE AREA.--31.4 mi^2.

PERIOD OF RECORD.--Sept. 21, 1972 to Sept. 30, 1982, May 28, 1998 to present.

GAGE.--Water-stage recorder. Datum of gage is 1149.65 ft above sea level.

REMARKS.--Records poor except discharges above 10 ft^3/s, which are fair. U.S.G.S satellite telemeter at station.

REVISIONS.--The maximum instantaneous stages for the water years 1999 and 2000 have been revised to 7.62 ft, May 4, 1999, and 9.49 ft, July 12, 2000. The maximum instantaneous discharge for 2000 water year reivsed to 5,480 ft^3/s, and maximum daily discharge revised to 1,200 ft^3/s on July 12, 2000, superseding figures published in MO-99-1 and MO-00-1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.00	e.00	e.00	e.00	e1.0	e.05	.00	.00	.00	.23	2.2	.00
2	e.00	20	e.00	e.00	e.04	e.00	.81	e.00	19	.00	.52	.00
3	e.00	e.00	e.00	e.00	e.00	e.00	2.0	e.00	84	.00	.04	.00
4	e.00	e.00	e.00	e.00	e.00	e.00	.00	e.00	11	12	37	.00
5	e7.8	e.00	e.00	e.00	e.00	e.00	.00	e.00	2.1	114	1.1	.00
6	e3.1	65	e.00	e.00	e.00	e.00	.00	e20	.06	4.4	.00	.00
7	e.04	6.1	e.00	e.00	e.00	e.00	.00	e15	.00	.02	.84	.00
8	e.00	14	e.00	e.00	e.00	e.00	.00	.00	.00	.00	.05	187
9	e.00	14	e.00	e.00	63	e.00	.00	.00	.00	.00	62	79
10	e.00	4.6	e.00	e.00	e5.0	e.00	.00	.00	.00	.00	8.9	3.6
11	e.00	1.1	15	e2.4	e1.0	e.00	37	62	.00	.00	.02	.17
12	e.00	e.20	e1.0	7.6	e.20	e.00	5.5	3.9	.00	45	.00	.00
13	e.00	e2.1	e.00	13	96	e.00	.19	.00	.00	1.0	.00	.00
14	e.00	e.04	e.00	e12	e10	e.00	.00	.00	8.3	.00	.00	.00
15	e.00	e.00	e.00	e2.0	43	28	54	.00	19	.00	.00	.00
16	28	e.00	e1.5	e.10	e8.0	e5.0	3.1	.00	.00	25	.00	.00
17	e1.9	e.00	e.00	e.00	e.10	e.40	.80	1.8	.00	.70	24	2.4
18	e.02	e.00	e.00	e.00	e.02	e.02	.21	21	.00	.00	37	3.5
19	e.00	e.00	e.00	e.00	e.00	e.00	.02	6.6	.00	31	12	.01
20	e.00	e.00	e.00	e.00	e.00	e.00	.00	6.1	2.4	21	.06	.00
21	e.00	e.00	e.00	e.00	e24	e.00	.00	36	187	.03	.00	3.6
22	e.00	e.00	e.00	e.00	e10	e.00	.00	1.5	8.5	.00	.00	.00
23	e.00	e.00	e.00	e.00	91	e.00	3.9	8.0	2.0	.00	.00	.00
24	e.00	e.00	e.00	e.00	807	e.00	.00	.01	.10	.00	.00	.00
25	e.00	25	e.00	e.00	145	e.00	.00	.00	.00	.00	.00	.00
26	e.00	2.1	e.00	e.00	e20	e.00	.00	.00	.00	.00	.00	.00
27	24	e.10	e.00	e.00	e5.0	.00	.00	.00	.00	27	.00	.00
28	e.07	e.00	e.00	e.00	e.50	.00	.00	.00	.33	92	.00	.00
29	e.00	e.00	e.00	71	---	.00	.00	.00	37	149	.00	.00
30	e.00	e.00	e.00	19	---	.00	.00	12	5.2	23	.00	.00
31	e.00	---	e.00	e5.0	---	.00	---	6.9	---	5.1	.00	---
MEAN	2.09	5.14	.56	4.26	47.5	1.08	3.58	6.48	12.9	17.8	5.99	9.31
MAX	28	65	15	71	807	28	54	62	187	149	62	187
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
IN.	.07	.16	.02	.14	1.40	.04	.11	.21	.41	.58	.20	.29

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	15.5	23.0	13.2	12.0	18.0	33.0	29.6	32.0	28.1	18.8	9.28	13.6
MAX	54.6	88.6	34.1	35.4	47.5	74.6	78.1	93.6	56.6	73.9	23.1	73.0
(WY)	1973	1973	1974	1982	2001	1975	1979	1979	1981	2000	1978	1977
MIN	2.04	.28	.56	.36	2.55	1.08	.050	3.55	6.66	3.17	1.23	.38
(WY)	2000	2000	2001	1977	1977	2001	2000	2000	1998	1980	1999	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	10.8		9.43		20.7	
HIGHEST ANNUAL MEAN					35.2	1973
LOWEST ANNUAL MEAN					9.43	2001
HIGHEST DAILY MEAN	1200	Jul 12	807	Feb 24	1490	Nov 1 1972
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	.00	Many Days	.00	Many Days	.00	Many Years
MAXIMUM PEAK FLOW	---		1640	Feb 24	5480[a]	Jul 12 2000
MAXIMUM PEAK STAGE	---		6.66	Feb 24	9.49	Jul 12 2000
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Many Years
ANNUAL RUNOFF (INCHES)	4.17		3.63		7.96	
10 PERCENT EXCEEDS	15		20		43	
50 PERCENT EXCEEDS	.00		.00		7.2	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
[a] From rating extended above 2,800 ft^3/s by indirect measurement.

07052120 SOUTH CREEK NEAR SPRINGFIELD, MO

LOCATION.--Lat 37°09'16", long 93°21'51", Greene County, Hydrologic Unit 11010002, 50 ft downstream of State Highway FF bridge, 0.25 mi west of junction of James River Expressway and Highway FF.

DRAINAGE AREA.--10.5 mi^2.

PERIOD OF RECORD.--May 29, 1998 to present.

GAGE.--Water-stage recorder. Datum of gage is 1146.00 ft above sea level.

REMARKS.--Records poor.

REVISIONS.--The maximum discharge for water year 2000 and the period of record has been revised from 2,070 ft^3/s to unknown, superseding figure published in MO-00-1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.49	.00	.00	.00	.00	.11	.00
2	.00	e10	.00	.00	.00	.19	.00	.00	.15	.00	.00	.00
3	.00	.00	.00	.00	.00	.01	.02	.00	e6.0	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	3.0	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	12	.00	.00
6	.00	e25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.48	.00	.00	.83	.00
8	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	42
9	.00	e.00	.00	.00	6.3	.00	.00	.00	.00	.00	.00	26
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00
11	.00	.00	.00	.00	.00	.00	2.0	5.5	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.00	.00
13	.00	.00	.00	.07	3.6	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.10	.08	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	1.4	1.9	3.6	.00	3.1	.00	.00	.00
16	.00	.00	.00	.00	.02	.07	.00	.00	.00	13	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.66	.00
18	.00	.00	.00	.00	.00	.00	.00	2.4	.00	.00	5.3	.00
19	.00	.00	.00	.00	.00	.00	.00	.30	.00	3.6	4.9	.00
20	.00	.00	.00	.00	.00	.00	.00	.20	.00	8.0	.00	.00
21	.00	.00	.00	.00	1.1	.00	.00	4.0	24	.00	.00	.00
22	.00	.00	.00	.00	1.6	.00	.00	.00	.01	.00	.00	.00
23	.00	.00	.00	.00	13	.00	.00	.14	.00	.21	.00	.00
24	.00	e.00	.00	.00	94	.00	.00	.00	.00	.79	.00	.00
25	.00	e.50	.00	.00	9.7	.00	.00	.00	.00	.64	.00	.00
26	.00	.00	.00	.00	3.2	.00	.00	.00	.00	1.2	.00	.00
27	.00	.00	.00	.00	1.7	.00	.00	.00	.00	11	.00	.00
28	.00	.00	.00	.00	.89	.00	.00	.00	2.5	59	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	1.5	e139	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.54	.92	3.5	.00	.00
31	.00	---	.00	e.00	---	.00	---	.00	---	.99	3.2	---
MEAN	.000	1.18	.000	.005	4.88	.086	.19	.44	1.28	8.17	.58	2.27
MAX	.00	25	.00	.10	94	1.9	3.6	5.5	24	139	5.3	42
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
IN.	.00	.13	.00	.00	.48	.01	.02	.05	.14	.90	.06	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	.89	1.26	1.78	.99	3.48	1.62	2.55	2.76	1.91	8.70	.52	1.77
MAX	2.23	1.81	4.52	2.73	4.88	3.95	7.33	7.36	4.50	24.5	1.33	3.10
(WY)	1999	1999	2000	1999	2001	1999	1999	1999	2000	2000	1998	1998
MIN	.000	.80	.000	.005	2.12	.086	.14	.44	.56	.70	.000	.000
(WY)	2001	2000	2001	2001	2000	2001	2000	2001	1998	1998	1999	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL MEAN	3.01		1.57		2.55	
HIGHEST ANNUAL MEAN					3.40	2000
LOWEST ANNUAL MEAN					1.57	2001
HIGHEST DAILY MEAN	375	Jul 12	139	Jul 29	375	Jul 12 2000
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	.00	Many Days	.00	Many Days	.00	At Times
MAXIMUM PEAK FLOW	---		Unknown	Jul 29	Unknown	Jul 12 2000
MAXIMUM PEAK STAGE	---		5.49	Jul 29	8.57	Jul 12 2000
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Many Years
ANNUAL RUNOFF (INCHES)	3.90		2.02		3.31	
10 PERCENT EXCEEDS	3.1		1.3		4.2	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

07052152 WILSON CREEK NEAR BROOKLINE, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°09'07", long 93°22'18", in NW $^1/_4$ NE $^1/_4$ NE $^1/_4$ sec.7, T.28 N., R.22 W., Greene County, Hydrologic Unit 11010002. Sampling site is located at bridge on county farm road, 2.0 mi southeast of Brookline, approximately 0.25 mi downstream from the Southwest Treatment Plant and 0.5 mi downstream from South Creek.

DRAINAGE AREA.--44.6 mi^2.

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
08...	1705	ENVIRONMENTAL	42	15.0	164	7.5	1000	19.3	180	60.3	7.67	10.4
JAN												
17...	1410	ENVIRONMENTAL	52	19.5	188	7.2	903	14.0	--	--	--	--
17...	1415	REPLICATE	--	--	--	--	--	--	--	--	--	--
MAR												
07...	1410	ENVIRONMENTAL	48	19.4	190	7.6	878	14.6	--	--	--	--
MAY												
03...	1110	ENVIRONMENTAL	42	17.0	191	7.3	742	20.9	170	54.8	7.08	14.2
JUL												
24...	1210	ENVIRONMENTAL	34	13.4	174	7.7	911	26.1	--	--	--	--
SEP												
12...	0740	ENVIRONMENTAL	30	11.4	139	7.7	1110	23.2	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
08...	123	162	165	201	0	122	.3	85.9	<10	610	E.022	1.2	10.3
JAN													
17...	--	155	158	193	0	--	--	--	--	--	E.027	1.2	9.26
17...	--	--	--	--	--	--	--	--	--	--	E.030	1.2	9.28
MAR													
07...	--	168	168	205	0	--	--	--	--	--	.048	1.1	9.10
MAY													
03...	75.4	121	124	152	0	81.0	.5	55.0	<10	460	E.025	1.1	10.0
JUL													
24...	--	160	163	199	0	--	--	--	--	--	.049	.98	7.88
SEP													
12...	--	162	165	201	0	--	--	--	--	--	.049	1.0	7.32

07052152 WILSON CREEK NEAR BROOKLINE, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
08...	E.003	1.25	1.13	1.43	35	K26	91	56	E15	102	--	<8.00	<.11
JAN													
17...	E.004	.232	.178	.433	--	K15	K8	K11	--	--	--	--	--
17...	E.004	.219	.178	.435	--	K2	K7	K16	--	--	--	--	--
MAR													
07...	E.005	.153	.123	.300	--	180	40	K12	--	--	--	--	--
MAY													
03...	.008	.376	.321	.454	28	56	130	220	16	112	.3	<8.00	<.11
JUL													
24...	E.005	.308	.273	.412	--	580	1200	130	--	--	--	--	--
SEP													
12...	E.004	.199	.165	.358	--	700	880	180	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV							
08...	E2.7	40	1.08	2	E2.6	E.10	58
JAN							
17...	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--
MAR							
07...	--	--	--	--	--	--	--
MAY							
03...	E4.4	40	.97	2	18.3	<.01	51
JUL							
24...	--	--	--	--	--	--	--
SEP							
12...	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

07052160 WILSON CREEK NEAR BATTLEFIELD, MO

LOCATION.--Lat 38°07'03", long 93°24'13", in SW $^1/_4$ NW $^1/_4$ sec.24, T.28 N., R.23 W., Greene County, on left bank 50 ft downstream from bridge on Greene County Road 182, 0.3 mi upstream from McElhaney Branch and 1.8 mi west of Battlefield.

DRAINAGE AREA.--55.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1968 to September 1970, October 1972 to September 1982, Aug. 3, 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,100 ft above mean sea level. Prior to Sept. 20, 1972, at site 50 ft upstream. For period 1972 to 1982, at site 250 ft downstream.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow partially regulated and affected by sewage effluent. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e40	42	44	51	76	183	53	52	66	66	109	e52
2	e39	85	42	51	74	168	56	52	89	59	96	e48
3	e41	53	41	51	75	154	64	54	162	50	89	e47
4	e40	43	41	79	69	137	64	55	116	66	116	e47
5	e79	36	40	69	57	120	61	53	76	189	84	e50
6	e57	162	42	62	57	116	61	51	68	91	72	e52
7	e48	86	44	63	55	110	58	96	63	69	66	e52
8	e46	80	44	68	54	103	58	65	59	56	68	e300
9	e45	102	42	66	137	98	53	59	54	54	98	e190
10	e44	76	40	64	90	97	53	56	50	53	98	e110
11	e43	61	59	62	84	85	109	140	53	50	78	e80
12	e41	54	57	60	79	83	90	87	53	101	60	e70
13	e40	58	50	58	129	80	74	59	52	70	52	e65
14	e40	54	46	59	120	79	65	55	54	51	53	e58
15	e42	49	47	54	150	118	145	53	116	44	53	e55
16	e99	46	51	54	125	111	84	54	64	92	61	e52
17	e68	44	53	53	113	88	74	56	50	74	81	e54
18	e58	40	54	53	103	83	67	99	49	62	89	e57
19	e52	37	54	53	95	80	67	101	49	58	124	58
20	e51	38	52	52	89	77	66	75	55	145	72	59
21	e51	39	48	50	100	77	62	146	301	66	65	62
22	e50	39	44	48	138	72	57	84	114	52	61	58
23	e48	36	42	45	208	78	62	91	79	52	57	44
24	e46	38	47	50	1420	71	63	75	64	58	55	44
25	e45	97	42	50	711	60	61	67	62	53	49	46
26	e48	62	52	47	378	65	61	62	59	64	44	47
27	e88	55	57	52	279	63	59	50	62	120	48	47
28	e69	52	58	47	221	63	54	49	70	262	48	46
29	e49	45	59	145	---	64	50	53	111	611	48	47
30	e45	45	58	110	---	60	54	78	94	221	49	39
31	42	---	54	90	---	58	---	84	---	138	63	---
MEAN	51.4	58.5	48.5	61.8	189	93.6	66.8	71.3	80.5	103	71.2	67.9
MAX	99	162	59	145	1420	183	145	146	301	611	124	300
MIN	39	36	40	45	54	58	50	49	49	44	44	39
IN.	1.02	1.12	.96	1.22	3.37	1.85	1.28	1.41	1.54	2.04	1.41	1.30

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	59.5	107	79.6	74.7	95.3	142	115	103	98.1	77.1	53.3	59.0
MAX	103	354	208	169	189	289	281	305	201	236	82.4	155
(WY)	1973	1973	1974	1973	2001	1973	1973	1979	1974	2000	1982	1977
MIN	36.1	23.9	23.4	24.9	32.1	53.4	57.0	45.7	48.5	34.9	27.7	25.3
(WY)	1977	1977	1977	1977	1970	1976	2000	1977	1969	1969	1970	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	79.4		79.5		89.3	
HIGHEST ANNUAL MEAN					150	1973
LOWEST ANNUAL MEAN					56.9	1977
HIGHEST DAILY MEAN	1980	Jul 12	1420	Feb 24	2830	May 20 1979
LOWEST DAILY MEAN	32	Jun 4	36	Nov 5,23	17	Aug 27 1970
ANNUAL SEVEN-DAY MINIMUM	37	Sep 17	38	Nov 18	20	Aug 24 1970
MAXIMUM PEAK FLOW	---		2130	Feb 24	6160	Jul 12 2000
MAXIMUM PEAK STAGE	---		7.97	Feb 24	13.75	Jul 12 2000
INSTANTANEOUS LOW FLOW	---		21	Nov 5,20,24	11	Oct 24 1999
ANNUAL RUNOFF (INCHES)	18.55		18.52		20.82	
10 PERCENT EXCEEDS	124		116		163	
50 PERCENT EXCEEDS	56		59		57	
90 PERCENT EXCEEDS	40		44		30	

e Estimated

07052160 WILSON CREEK NEAR BATTLEFIELD, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
JUN 25...	1540	ENVIRONMENTAL	71	9.4	115	7.8	837	23.3	--	--	--	--
JUL 24...	1415	ENVIRONMENTAL	55	8.9	112	7.6	744	24.6	220	76.3	7.61	7.60
AUG 21...	1230	ENVIRONMENTAL	65	8.2	101	7.4	784	23.0	--	--	--	--
SEP 11...	1545	ENVIRONMENTAL	78	8.5	101	7.6	733	22.3	220	77.1	6.30	6.84

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
JUN 25...	--	169	168	205	0	--	--	--	--	--	.075	.77	5.85
JUL 24...	64.5	193	194	236	0	75.3	.4	48.7	<10	428	<.040	.52	5.28
AUG 21...	--	164	166	203	0	--	--	--	--	--	<.040	.47	5.02
SEP 11...	59.6	173	175	213	0	73.1	.4	54.0	<10	428	E.022	.46	4.38

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
JUN 25...	.033	.247	.244	.294	--	56	350	67	--	--	--	--	--
JUL 24...	.013	.231	.201	.241	19	270	K790	140	15	140	1.2	<8.00	<.10
AUG 21...	.008	.165	.152	.166	--	260	K690	110	--	--	--	--	--
SEP 11...	E.005	.127	.116	.169	<10	K230	740	K180	18	126	2.6	<8.00	E.05

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)
JUN 25...	--	--	--	--	--	--	--	--	<.002	<.004	<.002	<.005	<.007
JUL 24...	<5.0	10	.46	1	15.6	<.01	33	30	<.002	<.004	<.002	<.005	<.010
AUG 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 11...	<5.0	10	.36	M	14.2	<.01	--	21	--	--	--	--	--

07052160 WILSON CREEK NEAR BATTLEFIELD, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL-ATE, WATER, DISS, REC (µg/L) (04028)	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (µg/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)	DI-ELDRIN DIS-SOLVED (µg/L) (39381)	DISUL-FOTON WATER FLTRD 0.7µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7µ GF, REC (µg/L) (82663)
JUN 25...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.021	<.002	<.009
JUL 24...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.004	.110	<.005	<.021	<.002	<.009
AUG 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ETHO-PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS-SOLVED (µg/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA-THION, DIS-SOLVED (µg/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA-THION, DIS-SOLVED (µg/L) (39542)
JUN 25...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
JUL 24...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.004	<.006	<.002	<.007	<.003	<.007
AUG 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PEB-ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO-PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI-MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER-BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)
JUN 25...	<.002	<.010	<.006	<.011	.076	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
JUL 24...	<.002	<.010	<.006	<.011	.109	<.004	<.010	<.011	<.023	<.011	E.013	<.034	<.017
AUG 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	THIO-ENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)
JUN 25...	<.005	<.002	<.009
JUL 24...	<.005	<.002	<.009
AUG 21...	--	--	--
SEP 11...	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07052250 JAMES RIVER NEAR BOAZ, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°00'25", long 93°21'50", in NW $^1/_4$ NW $^1/_4$ NE $^1/_4$ sec.32, T.27 N., R.22 W., Christian County, Hydrologic Unit 11010002, at Frazier Bridge, 2.0 mi southeast of Boaz, and 0.2 mi upstream from Turkey Hollow.

DRAINAGE AREA.--462 mi^2.

PERIOD OF RECORD.--August 1967 to September 1982, November 1983 to June 1987, November 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
08...	1530	ENVIRONMENTAL	169	9.3	85	7.7	499	11.1	190	67.7	5.10	4.42
MAR												
07...	1050	ENVIRONMENTAL	563	11.3	105	8.1	441	12.4	--	--	--	--
APR												
03...	0915	ENVIRONMENTAL	202	9.5	93	7.8	510	14.0	--	--	--	--
MAY												
03...	0920	ENVIRONMENTAL	121	5.2	58	7.7	532	20.7	200	67.8	6.80	5.62
JUN												
25...	1330	ENVIRONMENTAL	269	7.2	92	7.8	446	26.3	--	--	--	--
JUL												
24...	1030	ENVIRONMENTAL	176	5.4	72	7.8	615	27.6	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
08...	32.5	162	164	200	0	35.3	.2	34.5	<10	323	<.041	.32	2.77
MAR													
07...	--	155	154	188	0	--	--	--	--	--	<.041	.18	3.81
APR													
03...	--	164	164	200	0	--	--	--	--	--	<.041	.31	2.50
MAY													
03...	27.3	166	166	203	0	35.5	.2	28.4	11	306	.263	.84	3.85
JUN													
25...	--	139	140	171	0	--	--	--	--	--	E.035	.61	1.65
JUL													
24...	--	161	161	196	0	--	--	--	--	--	<.040	.39	2.45

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
08...	E.004	.314	.269	.301	<10	K29	99	156	54	66	--	<8.00	<.11
MAR													
07...	.009	E.059	.047	.079	--	130	39	K16	--	--	--	--	--
APR													
03...	.015	.078	.055	.070	--	K18	20	45	--	--	--	--	--
MAY													
03...	.110	.129	.108	.144	<10	21	50	K16	23	104	1.4	<8.00	<.11
JUN													
25...	.018	.105	.105	.173	--	73	160	91	--	--	--	--	--
JUL													
24...	.011	.169	.161	.216	--	110	150	210	--	--	--	--	--

07052250 JAMES RIVER NEAR BOAZ, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)
NOV													
08...	E3.7	30	.31	<1	4.8	<.14	43	<31	<.002	<.004	<.002	<.005	<.007
MAR													
07...	--	--	--	--	--	--	--	--	<.002	<.004	<.002	<.005	E.002
APR													
03...	--	--	--	--	--	--	--	--	<.002	<.004	<.002	<.005	E.003
MAY													
03...	<4.7	20	.31	M	22.2	<.01	--	12	<.002	<.004	<.002	<.005	E.005
JUN													
25...	--	--	--	--	--	--	--	--	<.002	<.004	<.002	<.005	.017
JUL													
24...	--	--	--	--	--	--	--	--	<.002	<.004	<.002	<.005	E.006

DATE	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL-ATE, WATER, DISS, REC (µg/L) (04028)	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (µg/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)	DI-ELDRIN DIS-SOLVED (µg/L) (39381)	DISUL-FOTON WATER FLTRD 0.7µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7µ GF, REC (µg/L) (82663)
NOV													
08...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.021	<.002	<.009
MAR													
07...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.004	<.005	<.005	<.021	<.002	<.009
APR													
03...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.005	<.005	<.005	<.021	<.002	<.009
MAY													
03...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.004	.013	<.005	<.021	<.002	<.009
JUN													
25...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.005	.019	<.005	<.021	<.002	<.009
JUL													
24...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.004	.021	<.005	<.021	<.002	<.009

DATE	ETHO-PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS-SOLVED (µg/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA-THION, DIS-SOLVED (µg/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA-THION, DIS-SOLVED (µg/L) (39542)
NOV													
08...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.007	<.006	<.002	<.007	<.003	<.007
MAR													
07...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
APR													
03...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.060	<.007	<.003	<.007
MAY													
03...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
JUN													
25...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
JUL													
24...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.004	<.006	<.002	<.007	<.003	<.007

07052250 JAMES RIVER NEAR BOAZ, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PEB-ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO-PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI-MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER-BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)
NOV													
08...	<.002	<.010	<.006	<.011	.034	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
MAR													
07...	<.002	<.010	<.006	<.011	E.007	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
APR													
03...	<.002	<.010	<.006	<.011	E.009	<.004	<.010	<.011	<.023	<.011	E.008	<.034	<.017
MAY													
03...	<.002	<.010	<.006	<.011	E.013	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
JUN													
25...	<.002	<.010	<.006	<.011	.039	<.004	<.010	<.011	<.023	.051	<.016	<.034	<.017
JUL													
24...	<.002	<.010	<.006	<.011	.095	<.004	<.010	<.011	<.023	E.004	E.011	<.034	<.017

DATE	THIO-BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) 82681)	TRIAL-LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)
NOV			
08...	<.005	<.002	<.009
MAR			
07...	<.005	<.002	<.009
APR			
03...	<.005	<.002	<.009
MAY			
03...	<.005	<.002	<.009
JUN			
25...	<.005	<.002	<.009
JUL			
24...	<.005	<.002	<.009

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07052500 JAMES RIVER AT GALENA, MO

LOCATION.--Lat 36°48'19", long 93°27'41", in SW $^1/_4$ SE $^1/_4$ SW $^1/_4$ sec.6, T.24 N., R.23 W., Stone County, Hydrologic Unit 11010002, on downstream side of right pier of first arch span from left end of bridge on old State Highways 13 and 248 in Galena, 0.7 mi upstream from Railey Creek, and 42.3 mi above mouth.

DRAINAGE AREA.--987 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1921 to current year (October 1921, monthly discharge only published in WSP 1311).

REVISED RECORDS.--WSP 977: 1935(M), 1941(M).

GAGE.--Water-stage recorder. Datum of gage is 921.37 ft above sea level. Prior to Dec. 11, 1927, nonrecording gage at site 500 ft downstream at datum 1.48 ft higher. Dec. 11, 1927, to July 22, 1939, nonrecording gage, and July 23, 1939, to Sept. 30, 1953, water-stage recorder at present site and at datum 2.00 ft higher.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	129	263	e220	1220	3200	468	311	316	628	713	132
2	119	125	243	e210	981	2660	461	300	286	428	473	130
3	111	146	222	e190	825	2280	464	292	309	341	370	118
4	108	143	208	e180	715	2000	462	285	399	290	315	114
5	105	128	192	e170	620	1760	446	285	405	269	338	112
6	109	182	187	157	540	1570	427	282	409	965	312	114
7	122	344	187	150	485	1430	415	287	371	1220	259	115
8	112	325	181	148	445	1310	396	319	320	691	228	155
9	100	309	172	168	442	1210	387	290	281	468	213	552
10	94	366	168	171	583	1120	373	269	249	376	209	873
11	96	339	173	184	733	1050	386	274	234	311	241	528
12	96	309	171	204	840	974	463	402	225	272	245	384
13	98	281	e168	243	803	909	445	397	216	288	222	302
14	100	266	e165	478	990	847	415	318	205	315	202	251
15	99	247	e163	881	1380	841	461	283	225	322	190	215
16	115	233	e170	1220	2350	919	677	264	315	285	180	187
17	136	212	e180	1070	2360	875	621	253	262	318	174	174
18	188	196	e230	887	1800	821	621	299	224	305	175	169
19	147	191	e210	746	1490	786	588	595	203	243	201	176
20	130	183	e190	629	1280	747	559	628	194	267	238	177
21	121	172	e215	547	1120	711	528	587	211	312	185	166
22	115	168	e230	476	1210	681	499	780	808	227	169	173
23	109	168	e210	422	1790	650	465	686	1160	192	156	179
24	104	177	e190	379	9890	627	439	625	683	188	149	167
25	106	258	e220	342	21600	596	418	504	462	209	144	151
26	111	383	e270	317	9360	552	387	427	373	204	140	146
27	122	353	e300	290	5530	534	372	381	314	247	130	139
28	131	328	e255	280	4100	514	360	346	303	415	123	136
29	158	314	e225	315	---	502	342	315	390	1540	122	132
30	147	285	e200	623	---	494	324	308	859	2480	128	130
31	133	---	e235	1180	---	480	---	316	---	1290	127	---
MEAN	118	242	206	435	2696	1085	456	384	374	513	228	217
MAX	188	383	300	1220	21600	3200	677	780	1160	2480	713	873
MIN	94	125	163	148	442	480	324	253	194	188	122	112
IN.	.14	.27	.24	.51	2.84	1.27	.52	.45	.42	.60	.27	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2001, BY WATER YEAR (WY)

MEAN	488	869	949	899	1129	1522	1768	1600	1165	592	391	421
MAX	2494	4407	5435	3443	3485	5372	8376	9549	6383	4010	5159	5684
(WY)	1942	1973	1983	1937	1966	1945	1927	1943	1935	1951	1927	1993
MIN	58.0	65.3	79.2	68.8	87.4	129	145	179	87.6	46.0	22.6	45.8
(WY)	1954	1954	1956	1956	1954	1954	1954	1936	1936	1954	1954	1953

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1922 - 2001	
ANNUAL MEAN	378		565		981	
HIGHEST ANNUAL MEAN					2499	1927
LOWEST ANNUAL MEAN					119	1954
HIGHEST DAILY MEAN	6930	Jul 13	21600	Feb 25	57000	Sep 25 1993
LOWEST DAILY MEAN	93	Sep 21,22	94	Oct 10	11	Aug 22 1954
ANNUAL SEVEN-DAY MINIMUM	97	Sep 17	98	Oct 9	12	Aug 18 1954
MAXIMUM PEAK FLOW	---		24000	Feb 25	73200	Sep 25 1993
MAXIMUM PEAK STAGE	---		16.46	Feb 25	33.46	Sep 25 1993
INSTANTANEOUS LOW FLOW	---		90	Oct 10	10	Sep 20 1954
ANNUAL RUNOFF (INCHES)	5.22		7.77		13.50	
10 PERCENT EXCEEDS	840		977		2140	
50 PERCENT EXCEEDS	201		292		428	
90 PERCENT EXCEEDS	113		130		120	

e Estimated

07052500 JAMES RIVER AT GALENA, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT												
23...	1425	ENVIRONMENTAL	108	12.3	131	8.5	512	18.8	--	--	--	--
NOV												
07...	0915	ENVIRONMENTAL	411	9.5	90	7.9	453	13.4	190	63.3	6.65	4.67
DEC												
12...	1040	ENVIRONMENTAL	171	15.6	109	8.5	431	1.4	--	--	--	--
JAN												
17...	1140	ENVIRONMENTAL	1080	14.2	114	7.7	405	6.2	190	60.6	8.41	2.48
FEB												
06...	1240	ENVIRONMENTAL	542	16.9	139	8.3	432	7.2	--	--	--	--
06...	1241	REPLICATE	--	--	--	--	--	--	--	--	--	--
MAR												
06...	1315	ENVIRONMENTAL	1560	10.9	95	8.1	376	9.4	--	--	--	--
APR												
03...	1325	ENVIRONMENTAL	460	13.1	129	8.1	413	14.5	--	--	--	--
MAY												
02...	1525	ENVIRONMENTAL	296	10.9	129	6.8	418	23.6	180	59.8	7.06	3.37
02...	1530	BLANK	--	--	--	--	--	--	0	.11	.018	<.09
JUN												
26...	1210	ENVIRONMENTAL	370	8.1	102	7.8	392	26.1	--	--	--	--
JUL												
23...	1515	ENVIRONMENTAL	183	8.8	126	8.1	431	32.1	160	52.6	7.08	3.99
AUG												
21...	0940	ENVIRONMENTAL	187	6.7	86	7.8	604	25.9	--	--	--	--
SEP												
11...	1215	ENVIRONMENTAL	528	8.0	94	8.0	396	21.7	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT													
23...	--	178	180	200	10	--	--	--	--	--	E.026	.29	2.51
NOV													
07...	32.8	176	178	217	0	33.0	E.2	24.5	<10	300	<.041	.25	2.18
DEC													
12...	--	174	173	201	5	--	--	--	--	--	<.041	.27	2.60
JAN													
17...	14.5	155	158	193	0	26.3	E.1	14.5	<10	247	<.041	.32	2.65
FEB													
06...	--	155	160	178	8	--	--	--	--	--	<.041	.17	2.72
06...	--	--	--	--	--	--	--	--	--	--	<.041	.22	2.75
MAR													
06...	--	140	141	172	0	--	--	--	--	--	<.041	1.7	3.26
APR													
03...	--	144	144	176	0	--	--	--	--	--	<.041	.29	1.32
MAY													
02...	15.5	134	134	163	0	30.1	E.1	15.4	<10	238	<.041	.28	1.58
02...	.7	--	--	--	--	<.1	<.2	E.1	<10	<10	<.041	<.08	<.047
JUN													
26...	--	141	142	173	0	--	--	--	--	--	E.029	.33	.977
JUL													
23...	22.9	138	138	168	0	29.8	E.1	18.5	<10	230	<.040	.22	.761
AUG													
21...	--	155	155	189	0	--	--	--	--	--	<.040	.28	2.46
SEP													
11...	--	141	141	172	0	--	--	--	--	--	<.040	.27	.976

07052500 JAMES RIVER AT GALENA, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
23...	.007	.441	.390	.439	--	<1	<8	<8	--	--	--	--	--
NOV													
07...	E.003	.584	.532	.572	<10	21	45	100	E12	E22	--	<8.00	<.11
DEC													
12...	.009	.311	.277	.313	--	K1	K3	K4	--	--	--	--	--
JAN													
17...	.012	.089	.082	.143	<10	28	35	88	41	85	1.1	<8.00	<.11
FEB													
06...	.011	<.060	.030	E.051	--	K1	K3	K1	--	--	--	--	--
06...	.012	E.031	.029	<.060	--	--	--	--	--	--	--	--	--
MAR													
06...	E.004	E.043	.053	.088	--	K1	K12	K13	--	--	--	--	--
APR													
03...	.013	<.060	<.018	<.060	--	K1	K2	K1	--	--	--	--	--
MAY													
02...	.018	.073	.075	.103	14	K1	K8	K2	9	38	.7	<8.00	<.11
02...	<.006	<.060	<.018	<.060	<10	--	--	--	6	7	<.2	<8.00	<.11
JUN													
26...	.015	.122	.127	.153	--	K12	30	24	--	--	--	--	--
JUL													
23...	.007	.151	.136	.159	18	K5	K8	24	15	54	1.9	<8.00	<.10
AUG													
21...	.009	.149	.133	.142	--	27	23	20	--	--	--	--	--
SEP													
11...	E.004	.103	.096	.129	--	60	K86	74	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
OCT								
23...	--	--	--	--	--	--	--	--
NOV								
07...	<4.7	<10	.13	<1	<3.2	<.14	32	<31
DEC								
12...	--	--	--	--	--	--	--	--
JAN								
17...	<4.7	20	.13	<1	<3.2	<.14	--	3
FEB								
06...	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--
MAR								
06...	--	--	--	--	--	--	--	--
APR								
03...	--	--	--	--	--	--	--	--
MAY								
02...	<4.7	<10	.08	<1	4.1	<.01	--	6
02...	<4.7	<10	<.08	<1	<3.2	<.01	7	2
JUN								
26...	--	--	--	--	--	--	--	--
JUL								
23...	<5.0	M	.10	<1	7.0	<.01	6	4
AUG								
21...	--	--	--	--	--	--	--	--
SEP								
11...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.
M--Presence of material verified, but not quantified.

07052800 FLAT CREEK AT JENKINS, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°46'33", long 93°41'09", in SW $^1/_4$ SE $^1/_4$ NE $^1/_4$ sec.24, T.24 N., R.26 W., Barry County, Hydrologic Unit 11010003, 1.0 mi north of U.S. Highway 248 on County Road 1215 in Jenkins.

DRAINAGE AREA.--190 mi^2.

PERIOD OF RECORD.--October 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT 23...	1235	ENVIRONMENTAL	28	10.2	106	7.8	316	17.7	--	--	--	--
NOV 07...	1115	ENVIRONMENTAL	40	10.0	95	7.7	307	13.2	160	58.2	3.03	1.51
DEC 12...	0845	ENVIRONMENTAL	28	18.4	131	8.0	341	2.1	--	--	--	--
JAN 17...	0955	ENVIRONMENTAL	127	11.8	95	7.7	299	6.4	150	50.6	5.68	1.18
FEB 06...	1110	ENVIRONMENTAL	76	15.1	125	7.6	312	7.3	--	--	--	--
MAR 06...	1010	ENVIRONMENTAL	202	10.9	92	7.8	279	8.4	--	--	--	--
APR 03...	1155	ENVIRONMENTAL	104	13.8	138	7.8	303	14.0	--	--	--	--
MAY 02...	1355	ENVIRONMENTAL	37	10.1	115	7.4	307	21.6	140	51.0	4.08	1.45
JUN 26...	1330	ENVIRONMENTAL	46	11.0	137	8.3	302	24.8	--	--	--	--
JUL 23...	1300	BLANK	--	--	--	--	--	--	--	.03	<.008	<.09
23...	1315	ENVIRONMENTAL	30	8.6	117	7.9	304	29.2	150	53.3	3.11	1.87
AUG 20...	1515	ENVIRONMENTAL	29	9.1	118	7.9	311	26.7	--	--	--	--
SEP 11...	1020	ENVIRONMENTAL	32	6.8	76	7.5	322	19.5	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT 23...	--	131	130	159	0	--	--	--	--	--	E.023	.14	1.25
NOV 07...	4.9	144	146	179	0	9.1	<.2	3.7	<10	178	<.041	.09	1.43
DEC 12...	--	150	150	184	0	--	--	--	--	--	<.041	E.07	1.88
JAN 17...	4.2	122	127	154	0	8.7	<.2	6.0	<10	184	<.041	.09	2.74
FEB 06...	--	122	123	150	0	--	--	--	--	--	<.041	.09	2.77
MAR 06...	--	106	107	130	0	--	--	--	--	--	<.041	.09	3.42
APR 03...	--	122	125	152	0	--	--	--	--	--	<.041	.12	2.03
MAY 02...	4.4	129	130	158	0	8.8	<.2	3.9	<10	190	<.041	.14	1.34
JUN 26...	--	129	130	159	0	--	--	--	--	--	E.027	.17	1.22
JUL 23...	.3	--	--	--	--	E.1	<.2	.2	<10	<10	<.040	<.08	<.050
23...	4.6	128	129	157	0	9.0	<.2	3.4	<10	170	<.040	.12	.874
AUG 20...	--	133	129	157	0	--	--	--	--	--	<.040	.14	.847
SEP 11...	--	144	145	177	0	--	--	--	--	--	<.040	.13	.929

07052800 FLAT CREEK AT JENKINS, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
23...	E.005	<.060	.019	<.060	--	30	140	94	--	--	--	--	--
NOV													
07...	<.006	<.060	E.017	<.060	<10	38	71	LA	E11	E27	--	<8.00	<.11
DEC													
12...	<.006	<.060	<.018	<.060	--	K3	K8	38	--	--	--	--	--
JAN													
17...	.007	<.060	E.012	<.060	<10	K81	44	71	20	27	.2	<8.00	<.11
FEB													
06...	.006	<.060	E.011	<.060	--	K1	28	K13	--	--	--	--	--
MAR													
06...	<.006	E.034	.027	E.033	--	K4	48	33	--	--	--	--	--
APR													
03...	.013	<.060	<.018	<.060	--	K15	K10	K14	--	--	--	--	--
MAY													
02...	.012	<.060	E.009	<.060	11	K2	26	K15	18	54	.3	<8.00	<.11
JUN													
26...	.015	<.060	E.013	E.046	--	K13	44	21	--	--	--	--	--
JUL													
23...	<.006	<.060	<.020	<.060	<10	--	--	--	7	7	<.2	<8.00	<.10
23...	.007	E.034	E.012	E.041	<10	20	57	70	12	57	.3	<8.00	<.10
AUG													
20...	E.004	E.033	E.016	<.060	--	20	29	52	--	--	--	--	--
SEP													
11...	E.003	<.060	E.015	E.036	--	58	K81	180	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
OCT								
23...	--	--	--	--	--	--	--	--
NOV								
07...	<4.7	<10	.09	<1	<3.2	<.14	39	<31
DEC								
12...	--	--	--	--	--	--	--	--
JAN								
17...	<4.7	<10	<.08	<1	<3.2	<.14	--	3
FEB								
06...	--	--	--	--	--	--	--	--
MAR								
06...	--	--	--	--	--	--	--	--
APR								
03...	--	--	--	--	--	--	--	--
MAY								
02...	<4.7	<10	<.08	<1	6.2	<.01	--	3
JUN								
26...	--	--	--	--	--	--	--	--
JUL								
23...	<5.0	<10	<.08	<1	<3.0	<.01	2	2
23...	<5.0	M	E.05	<1	9.2	<.01	16	5
AUG								
20...	--	--	--	--	--	--	--	--
SEP								
11...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.
M--Presence of material verified, but not quantified.
LA-Laboratory Accident.

07053400 TABLE ROCK LAKE NEAR BRANSON, MO

LOCATION.--Lat 36°35'46", long 93°18'35", in NW $^1/_4$ sec.22, T.22 N., R.22 W., Taney County, Hydrologic Unit 11010001, at dam on White River, 3.0 mi upstream from Fall Creek and 6.1 mi southwest of Branson.

DRAINAGE AREA.--4,020 mi^2.

PERIOD OF RECORD.--September 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by the U.S. Army Corps of Engineers). Prior to July 18, 1958, nonrecording gage at same site and datum.

REMARKS.--Lake is formed by combination concrete-gravity and embankment type dam. Storage began on Sept. 9, 1956. Storage for purpose of filling to power pool level at elevation 881.0 ft and capacity 1,520,500 ac-ft began Nov. 24, 1958, and was reached Dec. 19, 1959. Capacity is 3,567,500 ac-ft at top of spillway gates, elevation 933.0 ft. Capacity is 3,462,000 ac-ft at top of flood control pool, elevation 931.0 ft. Capacity between elevations 915.0 ft and 931.0 ft is reserved for flood control, 760,000 ac-ft. The capacity at the lowest outlet, elevation 721.96 ft., is 3,530 ac-ft. Lake is used for flood control, power, and recreational purposes. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records were provided by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 3,542,000 ac-ft, May 10, 1961, elevation, 932.52 ft; minimum, since initial filling to bottom of power pool level, 1,536,000 ac-ft, Feb. 8, 1965, elevation, 881.54 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,732,000 ac-ft, June 10, elevation, 915.71 ft; minimum, 2,293,000 ac-ft, Jan. 10, elevation, 904.90 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
OBSERVATION AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	909.43	909.72	909.02	905.92	906.76	914.31	914.97	914.57	915.34	915.51	913.24	910.10
2	909.34	909.76	908.76	905.65	906.51	914.39	915.03	914.56	915.38	915.52	913.07	910.06
3	909.28	909.77	908.66	905.33	906.56	914.64	915.07	914.41	915.46	915.53	912.87	909.96
4	909.29	909.77	908.68	905.25	906.64	914.88	915.05	914.42	915.50	915.57	912.60	909.70
5	909.42	909.79	908.56	905.22	906.69	914.90	915.04	914.46	915.44	915.64	912.44	909.54
6	909.38	909.96	908.36	905.24	906.70	914.86	914.96	914.54	915.50	915.65	912.25	909.51
7	909.35	909.76	908.18	905.27	906.75	914.83	914.92	914.55	915.59	915.64	912.13	909.53
8	909.32	909.79	908.11	905.20	906.78	914.84	914.90	914.56	915.66	915.61	911.97	909.00
9	909.32	909.71	908.11	905.06	906.96	914.80	914.77	914.56	915.66	915.42	911.78	909.78
10	909.32	909.67	908.08	904.90	907.05	914.80	914.78	914.59	915.71	915.29	911.69	909.76
11	909.31	909.67	907.94	904.97	907.18	914.87	914.76	914.67	915.57	915.27	911.73	909.76
12	909.29	909.72	907.65	905.06	907.13	914.94	914.65	914.70	915.43	915.23	911.73	909.82
13	909.29	909.71	907.45	905.22	907.31	914.93	914.68	914.73	915.38	915.22	911.63	909.83
14	909.34	909.64	907.44	905.43	907.58	914.92	914.72	914.75	915.38	915.18	911.38	909.81
15	909.39	909.52	907.47	905.60	908.36	914.94	914.83	914.81	915.29	915.11	911.20	909.83
16	909.44	909.49	907.42	905.66	909.09	914.89	914.84	914.84	915.28	915.11	911.07	909.83
17	909.50	909.32	907.18	905.81	909.38	914.84	914.75	914.97	915.24	914.98	911.04	909.81
18	909.50	909.06	906.86	905.96	909.58	914.77	914.73	915.10	915.24	914.85	910.93	909.83
19	909.47	909.04	906.73	905.96	909.84	914.75	914.70	915.16	915.15	914.85	910.93	909.81
20	909.49	908.72	906.71	905.96	910.17	914.73	914.74	915.26	915.18	914.84	910.82	909.77
21	909.49	908.38	906.62	905.98	910.15	914.70	914.78	915.28	915.23	914.84	910.74	909.72
22	909.56	908.34	906.28	906.01	909.96	914.70	914.79	915.32	915.32	914.85	910.64	909.70
23	909.53	908.36	906.16	906.08	909.85	914.77	914.82	915.38	915.40	914.69	910.62	909.70
24	909.57	908.59	906.11	906.13	911.65	914.81	914.84	915.41	915.44	914.50	910.46	909.68
25	909.60	908.76	906.13	906.04	913.51	914.74	914.76	915.39	915.42	914.26	910.45	909.66
26	909.63	908.91	906.19	905.93	914.12	914.71	914.74	915.36	915.41	914.06	910.41	909.65
27	909.69	908.97	906.18	905.91	914.15	914.70	914.79	915.36	915.40	913.83	910.35	909.66
28	909.70	908.96	906.21	905.92	914.10	914.78	914.72	915.37	915.44	913.75	910.36	909.64
29	909.69	908.97	906.18	906.26	---	914.75	914.61	915.33	915.48	913.81	910.29	909.63
30	909.70	908.98	906.16	906.52	---	914.79	914.55	915.34	915.55	913.65	910.16	909.62
31	909.67	---	906.06	906.68	---	914.93	---	915.33	---	913.38	910.14	---
MEAN	909.46	909.29	907.28	905.68	908.95	914.78	914.81	914.94	915.42	914.89	911.33	909.72
MAX	909.70	909.96	909.02	906.68	914.15	914.94	915.07	915.41	915.71	915.65	913.24	910.10
MIN	909.28	908.34	906.06	904.90	906.51	914.31	914.55	914.41	915.15	913.38	910.14	909.00
(-)	2480000	2452000	2337000	2362000	2663000	2699000	2683000	2716000	2726000	2633000	2499000	2478000
(=)	+10000	-28000	-115000	+25000	+301000	+36000	-16000	+33000	+10000	-93000	-134000	-21000

CAL YR 2000....+77000
WTR YR 2001.... +8000

(-) Contents, in acre-feet, at the end of the month.
(=) Change in contents, in acre-feet.

07053450 WHITE RIVER BELOW TABLE ROCK DAM NEAR BRANSON, MO

WATER-QUALITY RECORDS

LOCATION.--Lat 36°35'42", long 93°18'32", sec.22, T.22 N., R.22 W., Taney County, Hydrologic Unit 11010003, on left bank in southwest corner of U.S. Army Corps of Engineers' carpentry building, 600 ft below Table Rock Dam.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 1987 to current year. (See remarks)
DISSOLVED OXYGEN: June 1987 to current year. (See remarks)

INSTRUMENTATION.--Water-quality monitor since June 1987.

REMARKS.--The number of missing days of water temperature and dissolved oxygen record exceeds 20 percent of the year. The monitor was not operated from Jan. 5 to June 27.

TEMPERATURE, WATER (Deg. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.9	11.1	11.5	12.4	11.4	11.8	13.0	11.9	12.3	8.9	8.0	8.2
2	12.3	11.1	11.9	12.5	11.3	11.7	12.2	11.8	12.0	8.9	7.9	8.2
3	12.5	11.3	11.8	12.4	11.3	11.7	12.7	11.7	12.0	8.2	7.9	8.0
4	12.2	11.4	11.9	12.3	11.3	11.6	12.8	11.8	12.0	8.3	7.9	8.1
5	12.4	11.5	11.8	12.2	11.3	11.6	12.4	11.6	11.7	---	---	---
6	12.5	11.2	11.7	12.6	11.4	11.9	11.7	11.5	11.6	---	---	---
7	12.5	11.0	11.5	12.6	11.2	12.2	11.7	11.4	11.6	---	---	---
8	12.3	10.7	11.4	12.5	11.4	11.8	12.1	11.5	11.6	---	---	---
9	12.4	10.7	11.6	12.8	11.3	11.9	12.2	11.4	11.7	---	---	---
10	12.4	10.8	11.5	12.8	11.5	12.4	11.9	11.4	11.6	---	---	---
11	12.3	10.9	11.5	12.5	11.4	11.8	11.6	11.1	11.4	---	---	---
12	12.2	11.0	11.5	12.6	11.4	11.8	11.2	10.8	11.1	---	---	---
13	12.4	11.1	11.6	12.9	11.3	12.1	11.0	10.5	10.9	---	---	---
14	12.9	11.3	11.7	13.0	11.4	12.2	11.0	10.7	10.8	---	---	---
15	12.6	11.4	11.7	12.8	11.5	12.2	11.0	10.6	10.7	---	---	---
16	12.8	11.4	11.9	12.8	11.4	12.1	10.7	10.1	10.5	---	---	---
17	12.5	11.3	11.9	13.0	11.2	12.7	10.6	9.8	10.2	---	---	---
18	12.3	11.2	11.7	12.9	11.9	12.6	10.2	9.7	10.0	---	---	---
19	12.4	11.2	11.7	12.8	11.7	12.2	10.4	9.4	9.9	---	---	---
20	12.5	11.2	11.6	12.9	11.7	12.6	10.0	9.5	9.6	---	---	---
21	12.2	11.2	11.5	13.0	12.3	12.7	10.2	9.2	9.5	---	---	---
22	12.3	11.3	11.6	13.0	12.0	12.5	9.3	9.0	9.2	---	---	---
23	12.4	11.3	11.7	12.4	11.9	12.1	9.7	9.1	9.3	---	---	---
24	12.3	11.5	11.8	12.4	11.7	11.9	10.0	8.9	9.2	---	---	---
25	12.7	11.4	11.8	12.4	11.5	11.9	9.2	8.8	9.0	---	---	---
26	12.3	11.3	11.6	12.7	11.6	12.1	9.0	8.4	8.7	---	---	---
27	12.3	11.4	11.7	13.2	11.8	12.3	9.1	8.7	8.8	---	---	---
28	12.3	11.4	11.8	12.9	11.9	12.3	9.2	8.6	8.8	---	---	---
29	12.1	11.3	11.6	13.0	12.0	12.3	9.3	8.4	8.7	---	---	---
30	12.3	11.3	11.7	13.2	11.8	12.3	9.3	8.2	8.6	---	---	---
31	12.6	11.5	11.9	---	---	---	8.7	8.1	8.2	---	---	---
MONTH	12.9	10.7	11.7	13.2	11.2	12.1	13.0	8.1	10.4	8.9	7.9	8.1
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	8.0	6.6	7.1	7.5	7.2	7.3	8.8	7.5	7.9
2	---	---	---	8.2	6.6	7.4	7.7	7.2	7.4	8.7	7.6	7.9
3	---	---	---	8.2	6.6	7.2	7.6	7.2	7.4	8.0	7.6	7.8
4	---	---	---	8.4	6.7	7.2	7.6	7.3	7.4	8.2	7.8	8.0
5	---	---	---	9.0	6.6	7.3	7.9	7.3	7.5	8.6	7.7	8.0
6	---	---	---	7.0	6.6	6.8	7.6	7.2	7.5	9.2	7.7	8.1
7	---	---	---	7.5	6.6	6.8	7.7	7.3	7.5	9.4	7.7	8.3
8	---	---	---	7.3	6.7	6.9	7.7	7.4	7.6	10.0	7.8	8.2
9	---	---	---	7.3	6.8	6.9	7.8	7.4	7.6	8.6	7.6	8.1
10	---	---	---	7.1	6.7	6.9	8.5	7.4	7.6	9.1	7.5	8.1
11	---	---	---	7.8	6.7	7.0	9.5	7.4	8.0	8.6	7.5	7.9
12	---	---	---	8.3	6.8	7.5	8.6	7.4	7.8	8.7	7.5	8.0
13	---	---	---	7.8	6.7	7.3	8.3	7.3	7.6	8.9	7.6	8.0
14	---	---	---	8.1	6.7	7.2	7.8	7.3	7.6	8.7	7.6	7.9
15	---	---	---	7.7	6.7	7.1	7.9	7.4	7.6	9.1	7.6	8.0
16	---	---	---	7.2	6.8	6.9	8.6	7.6	7.9	9.6	7.7	8.0
17	---	---	---	7.3	6.8	7.0	8.9	7.4	7.7	8.4	7.6	7.9
18	---	---	---	7.3	6.9	7.0	8.7	7.5	7.8	8.9	7.6	7.8
19	---	---	---	8.0	6.9	7.2	8.7	7.5	7.9	8.9	7.6	8.0
20	---	---	---	8.0	6.9	7.2	7.8	7.5	7.7	8.5	7.6	7.9
21	---	---	---	8.0	7.0	7.2	7.8	7.4	7.6	8.4	7.7	7.9
22	---	---	---	8.1	6.9	7.2	8.9	7.5	8.0	9.4	7.6	8.0
23	---	---	---	7.2	6.9	7.0	8.3	7.5	7.8	9.8	7.6	8.1
24	---	---	---	7.6	6.9	7.1	8.4	7.4	7.8	8.9	7.5	8.0
25	---	---	---	7.4	7.0	7.2	8.8	7.6	7.8	9.6	7.4	8.0
26	---	---	---	7.6	7.1	7.2	8.5	7.5	7.8	9.1	7.4	8.1
27	---	---	---	7.3	7.0	7.2	8.0	7.5	7.7	10.0	7.5	8.2
28	7.6	7.0	7.4	7.8	7.1	7.2	8.4	7.5	7.8	8.7	7.5	7.9
29	9.4	6.7	7.4	7.8	7.1	7.3	8.5	7.6	7.9	10.3	7.5	8.0
30	7.8	6.6	7.2	7.4	7.2	7.3	7.9	7.7	7.8	10.1	7.4	8.1
31	---	---	---	7.5	7.2	7.3	9.5	7.6	8.0	---	---	---
MONTH	9.4	6.6	7.3	9.0	6.6	7.1	9.5	7.2	7.7	10.3	7.4	8.0

07053450 WHITE RIVER BELOW TABLE ROCK DAM NEAR BRANSON, MO--Continued

OXYGEN DISSOLVED (mg/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.8	1.0	2.7	7.8	.8	2.6	9.8	2.3	6.1	---	---	---
2	7.5	1.3	4.6	5.4	.6	2.0	9.9	6.1	7.8	---	---	---
3	6.2	1.7	3.7	4.9	.7	2.1	10.6	4.8	7.5	---	---	---
4	7.2	1.3	4.5	5.8	.6	2.1	10.1	6.9	8.6	---	---	---
5	6.1	1.5	3.1	5.5	.7	2.5	10.4	5.5	8.2	---	---	---
6	5.7	1.5	3.3	8.3	.6	4.0	9.2	4.8	7.7	---	---	---
7	5.9	1.7	3.6	7.3	2.5	5.1	9.7	5.2	7.9	---	---	---
8	5.9	1.4	3.3	8.2	1.6	4.0	9.4	4.7	7.5	---	---	---
9	6.9	1.7	4.1	7.6	1.7	3.6	8.5	4.6	6.2	---	---	---
10	6.4	1.1	3.4	8.1	1.5	4.8	7.4	2.7	5.4	---	---	---
11	5.5	1.1	3.1	7.1	.6	3.1	10.1	4.4	7.5	---	---	---
12	4.3	.7	2.5	---	---	---	10.3	6.7	8.1	---	---	---
13	4.9	1.1	2.8	---	---	---	10.0	6.7	7.9	---	---	---
14	5.3	.7	2.4	---	---	---	9.6	5.0	7.5	---	---	---
15	5.2	.9	2.2	---	---	---	9.2	4.2	6.5	---	---	---
16	8.0	.8	3.6	---	---	---	9.9	4.5	7.7	---	---	---
17	5.7	1.4	3.6	---	---	---	10.5	8.3	9.0	---	---	---
18	6.9	.9	3.2	---	---	---	11.5	8.3	9.6	---	---	---
19	6.6	.9	3.8	---	---	---	12.4	8.9	10.1	---	---	---
20	5.9	1.4	2.8	---	---	---	11.2	8.8	10.4	---	---	---
21	5.0	1.1	2.3	---	---	---	12.0	9.0	10.5	---	---	---
22	5.3	1.0	2.3	8.7	1.8	4.8	11.0	9.4	10.0	---	---	---
23	6.9	1.1	3.1	5.4	.5	1.6	11.9	9.2	10.4	---	---	---
24	6.1	1.1	2.8	6.5	.4	2.2	11.9	9.5	10.6	---	---	---
25	6.3	1.2	3.1	7.7	.5	3.1	12.4	9.3	10.3	---	---	---
26	6.0	.6	2.4	7.6	.6	3.0	11.5	9.3	10.6	---	---	---
27	5.8	1.1	2.3	7.9	1.1	4.4	---	---	---	---	---	---
28	4.0	1.1	2.4	8.8	2.5	6.1	---	---	---	---	---	---
29	6.9	1.1	2.3	9.3	2.8	5.0	---	---	---	---	---	---
30	6.9	1.0	2.7	8.9	3.2	5.1	---	---	---	---	---	---
31	8.5	.9	3.6	---	---	---	---	---	---	---	---	---
MONTH	8.5	.6	3.1	9.3	.4	3.6	12.4	2.3	8.4	---	---	---
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	14.7	8.6	11.4	10.0	7.5	8.5	9.5	5.8	7.8
2	---	---	---	14.4	9.9	12.3	11.1	7.3	8.2	9.7	5.5	7.6
3	---	---	---	14.6	9.0	11.7	9.7	7.0	8.1	9.2	5.4	7.1
4	---	---	---	13.6	9.6	11.3	9.9	7.1	8.1	9.5	6.0	7.3
5	---	---	---	14.2	9.4	11.4	12.1	7.2	8.5	12.8	5.8	8.2
6	---	---	---	11.1	9.4	10.0	10.7	6.5	7.8	11.2	5.6	8.1
7	---	---	---	12.6	9.4	10.4	9.4	6.8	7.7	11.7	4.8	7.9
8	---	---	---	11.4	8.4	9.8	9.8	6.5	7.6	10.0	5.1	7.1
9	---	---	---	12.2	7.5	9.2	10.1	6.4	8.0	11.1	5.2	7.7
10	---	---	---	10.7	7.8	9.0	10.3	6.4	8.2	10.7	5.3	7.9
11	---	---	---	12.2	8.4	9.8	11.9	5.8	8.2	9.8	5.6	7.3
12	---	---	---	13.0	8.1	10.1	11.2	5.8	8.0	11.1	4.8	7.2
13	---	---	---	13.2	7.9	10.6	11.8	5.5	7.3	10.7	5.4	7.6
14	---	---	---	13.8	8.5	10.9	9.0	6.4	7.2	10.6	4.9	7.1
15	---	---	---	12.5	7.1	9.3	9.0	5.4	7.2	10.8	4.8	7.2
16	---	---	---	10.9	7.1	9.2	11.9	6.1	7.9	9.8	4.8	7.0
17	---	---	---	11.1	8.2	9.2	10.2	5.7	7.6	11.7	4.7	8.3
18	---	---	---	10.5	8.5	9.3	9.5	6.4	8.1	11.5	6.5	8.0
19	---	---	---	11.7	7.5	9.1	10.5	6.2	8.4	11.3	5.4	8.3
20	---	---	---	11.2	7.4	9.1	7.9	5.9	6.7	10.6	3.9	6.8
21	---	---	---	11.9	7.7	9.4	9.4	5.6	7.2	9.3	4.8	6.5
22	---	---	---	11.4	7.3	8.9	10.0	5.8	7.4	11.1	3.7	6.6
23	---	---	---	10.5	8.0	9.0	10.9	6.1	7.5	9.8	3.7	5.6
24	---	---	---	10.7	8.0	9.0	10.1	5.7	7.3	---	---	---
25	---	---	---	11.0	8.1	9.1	8.8	5.8	7.2	---	---	---
26	---	---	---	12.0	8.0	8.8	10.6	5.7	7.6	---	---	---
27	---	---	---	11.2	7.7	9.1	8.9	5.6	6.7	---	---	---
28	---	---	---	11.2	7.6	9.5	11.7	5.5	7.3	---	---	---
29	13.7	6.8	10.1	10.8	7.8	9.3	10.7	5.6	8.2	---	---	---
30	15.0	6.8	10.9	10.7	7.3	8.4	9.2	6.7	8.3	---	---	---
31	---	---	---	10.7	7.3	8.2	10.2	6.1	8.3	---	---	---
MONTH	15.0	6.8	10.5	14.7	7.1	9.7	12.1	5.4	7.8	12.8	3.7	7.4

07053500 WHITE RIVER NEAR BRANSON, MO

LOCATION.--Lat 36°35'51", long 93°17'42", in SE $^1/_4$ NE $^1/_4$ sec.22, T.22 N., R.22 W., Taney County, Hydrologic Unit 11010003, on left bank 0.9 mi downstream from Table Rock Dam, 2.1 mi upstream from Fall Creek, 5.0 mi southwest of Branson, 7.4 mi upstream from Missouri Pacific bridge, and at mile 527.8.

DRAINAGE AREA.--4,022 mi^2.

PERIOD OF RECORD.--July 1909 to December 1910 gage heights and discharge measurements only, October 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 696.00 ft above sea level (levels by U.S. Army Corps of Engineers). July 19, 1909, to Dec. 31, 1910, nonrecording gage at site 7.4 mi downstream at different datum; Oct. 1, 1951, to Mar. 6, 1952, nonrecording gage at same site and datum.

REMARKS.--Flow regulated by Table Rock Lake (station 07053400) since Sept. 9, 1956.

COOPERATION.--Records furnished by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 89,100 ft^3/s, May 16, 1956; gage height, 36.9 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	335	156	2570	2950	7150	40	141	143	1220	6940	1360
2	2830	141	5490	6900	7960	6570	870	1340	138	113	5960	791
3	3210	140	2520	6750	2020	4580	40	3710	142	285	6230	2510
4	2040	142	962	1980	40	3550	1320	417	334	638	5640	5040
5	129	347	3050	765	1380	7360	1560	148	2530	340	3240	3010
6	141	1400	5760	239	1400	8450	2620	142	369	3450	5460	1010
7	137	4780	4770	532	532	7740	1730	132	433	2580	4890	135
8	144	1340	2000	2020	475	6720	1390	102	154	2070	5720	141
9	479	2590	888	4220	335	6970	4020	137	142	5420	6270	159
10	144	3480	1480	4240	40	2490	2440	389	138	6180	2680	932
11	146	338	5380	611	40	2750	2170	140	3730	2550	153	664
12	146	709	7500	40	4000	2780	2390	153	4560	594	142	480
13	144	1260	6440	40	40	4150	40	145	3970	725	3150	552
14	141	1630	1390	40	40	4860	40	152	4720	1300	4400	143
15	145	2470	432	238	259	4320	40	507	3310	1860	3970	140
16	610	1660	2760	1660	2710	3440	979	1780	574	2680	2310	149
17	623	4620	4800	40	5240	3690	2720	1040	657	5630	396	657
18	261	5010	7060	40	2190	4200	40	277	1350	6050	2580	764
19	702	543	4880	1900	3180	2750	1560	138	2300	4620	827	255
20	146	6530	2910	1340	392	2560	118	169	183	4780	2310	1520
21	149	7030	3430	980	7420	1850	40	146	462	3130	2730	1340
22	145	1210	7590	457	8480	1700	1090	143	174	4210	3840	156
23	859	121	2730	40	10500	140	467	153	141	6760	2010	148
24	145	235	40	40	4180	40	349	155	156	6450	3330	164
25	197	553	1110	2210	6400	2520	1990	990	582	7030	979	185
26	160	379	558	3290	8920	1940	1030	717	2050	6240	784	184
27	153	810	622	1420	11800	1510	767	1000	890	5830	2070	130
28	147	1810	782	364	11700	585	2170	146	143	2280	2610	146
29	146	772	1080	576	---	1560	2610	1200	139	2050	1910	145
30	488	937	491	188	---	40	1770	2210	505	6770	2680	169
31	681	---	2380	1150	---	40	---	893	---	8220	496	---
MEAN	508	1777	2950	1512	3737	3516	1280	610	1171	3615	3120	773
MAX	3210	7030	7590	6900	11800	8450	4020	3710	4720	8220	6940	5040
MIN	129	121	40	40	40	40	40	102	138	113	142	130
IN.	.15	.49	.85	.43	.97	1.01	.36	.17	.32	1.04	.90	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2001[a], BY WATER YEAR (WY)

MEAN	1910	2917	4280	4030	4198	5476	6109	5507	3834	3583	2991	2123
MAX	6660	13110	15210	16070	11970	14800	14800	22650	11610	11470	6526	4421
(WY)	1994	1975	1986	1985	1969	1985	1985	1961	1995	1976	1979	1979
MIN	429	497	239	201	420	44.7	71.6	224	782	1158	1015	708
(WY)	1982	1999	1996	1990	1964	2000	2000	2000	1981	1981	1977	1967

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1960 - 2001[a]	
ANNUAL MEAN	1897		2042		3913	
HIGHEST ANNUAL MEAN					7161	1993
LOWEST ANNUAL MEAN					852	1981
HIGHEST DAILY MEAN	8620	Jul 10	11800	Feb 27	33000	May 12 1961
LOWEST DAILY MEAN	40	Many Days	40	Many Days	35	Oct 31 1959
ANNUAL SEVEN-DAY MINIMUM	40	Mar 3	157	Sep 23	40	1984,1996,2000
ANNUAL RUNOFF (INCHES)	6.42		6.89		13.22	
10 PERCENT EXCEEDS	6210		5790		9520	
50 PERCENT EXCEEDS	500		1080		2580	
90 PERCENT EXCEEDS	40		139		140	

[a] Post-regulation period.

07053600 LAKE TANEYCOMO AT COLLEGE OF THE OZARKS

WATER-QUALITY RECORDS

LOCATION.--Lat 36°36'33", long 93°14'04", in sec.4, T.22 N., R.21 W., Taney County, Hydrologic Unit 11010003, on the right bank in the College of the Ozarks water intake pump house and 4.75 mi below Table Rock Dam.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May 1984 to current year. (See remarks)
DISSOLVED OXYGEN: May 1984 to current year. (See remarks)

INSTRUMENTATION.--Water-quality monitor since May 1984.

REMARKS.--The number of missing days of water temperature and dissolved oxygen record exceeds 20 percent of the year. The monitor was not operated from Jan. 5 to June 26.

TEMPERATURE, WATER (Deg. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.5	14.3	14.7	13.5	12.6	13.1	12.0	11.1	11.6	6.5	5.7	6.2
2	14.7	12.3	13.5	14.9	13.1	13.8	11.8	10.7	11.4	6.7	6.2	6.4
3	13.5	12.3	12.6	14.2	13.6	13.8	11.8	11.0	11.4	6.6	5.7	6.3
4	13.5	12.3	12.7	13.6	12.9	13.3	11.4	10.5	11.1	6.3	5.8	6.0
5	13.9	12.4	13.0	13.2	12.5	12.9	11.7	10.6	11.3	---	---	---
6	13.9	13.0	13.4	13.6	12.3	12.8	11.5	10.6	11.3	---	---	---
7	14.3	13.1	13.6	12.5	11.6	12.2	11.7	10.6	11.3	---	---	---
8	13.4	11.9	12.7	12.4	11.0	12.0	11.6	10.8	11.2	---	---	---
9	12.4	11.1	11.7	12.6	11.1	11.9	11.0	10.2	10.7	---	---	---
10	13.4	11.8	12.3	13.0	11.8	12.6	11.2	10.5	10.9	---	---	---
11	13.2	11.4	12.1	12.5	11.2	12.0	11.1	10.6	10.9	---	---	---
12	14.6	11.7	12.9	11.9	10.8	11.1	10.8	9.5	10.5	---	---	---
13	14.3	12.7	13.3	12.1	11.0	11.7	10.5	8.8	10.1	---	---	---
14	14.6	13.4	13.9	12.5	11.1	11.6	10.3	9.1	9.8	---	---	---
15	15.3	14.0	14.4	12.8	11.9	12.4	10.0	9.2	9.5	---	---	---
16	14.6	13.0	14.2	12.6	12.0	12.4	9.5	8.1	9.1	---	---	---
17	14.3	12.8	13.4	12.9	11.1	12.4	9.6	7.4	9.0	---	---	---
18	14.3	12.7	13.2	13.0	11.9	12.5	9.4	8.7	9.0	---	---	---
19	14.6	12.5	13.3	12.5	11.5	12.1	9.1	7.4	8.7	---	---	---
20	13.1	12.2	12.6	12.9	11.1	12.1	8.8	7.6	8.3	---	---	---
21	13.0	12.5	12.7	13.0	12.0	12.6	8.5	7.3	8.1	---	---	---
22	13.7	12.9	13.1	12.8	11.8	12.5	8.5	7.7	8.2	---	---	---
23	13.5	12.9	13.0	12.5	12.4	12.4	8.2	7.4	8.0	---	---	---
24	14.7	12.9	13.5	12.4	11.2	11.7	8.0	6.9	7.5	---	---	---
25	15.8	13.4	14.1	11.6	10.6	11.1	7.4	6.5	6.9	---	---	---
26	14.5	13.9	14.3	11.8	10.8	11.3	6.5	4.7	5.9	---	---	---
27	14.5	13.1	13.9	11.9	10.7	11.1	7.0	6.1	6.5	---	---	---
28	15.1	13.1	13.8	12.5	11.2	11.9	7.1	6.7	6.9	---	---	---
29	15.0	13.6	14.0	12.0	11.2	11.7	7.1	5.3	6.6	---	---	---
30	15.1	12.9	14.2	11.9	10.9	11.4	6.6	5.2	6.1	---	---	---
31	14.0	12.9	13.3	---	---	---	6.6	5.3	5.8	---	---	---
MONTH	15.8	11.1	13.3	14.9	10.6	12.2	12.0	4.7	9.1	6.7	5.7	6.2
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	12.3	7.7	9.5	8.6	7.4	7.8	10.5	8.9	10.0
2	---	---	---	10.2	7.2	8.5	9.2	7.4	7.8	10.4	8.2	9.2
3	---	---	---	14.4	9.2	11.9	8.6	7.5	7.8	9.7	8.1	8.9
4	---	---	---	13.0	9.5	11.3	8.4	7.6	7.8	9.5	8.0	8.3
5	---	---	---	12.6	9.6	11.1	9.1	7.6	8.0	10.1	8.1	8.6
6	---	---	---	12.6	6.9	9.9	8.6	7.6	7.9	11.2	8.3	9.0
7	---	---	---	9.3	6.9	7.6	8.7	7.6	7.9	11.7	8.8	10.1
8	---	---	---	9.6	6.9	7.6	9.0	7.6	7.9	14.4	11.2	13.2
9	---	---	---	7.9	7.1	7.4	9.1	7.7	7.9	16.5	13.0	14.7
10	---	---	---	7.7	7.1	7.4	9.6	7.7	8.2	15.6	8.7	12.7
11	---	---	---	10.1	7.1	8.2	10.3	7.9	8.9	11.2	8.6	9.5
12	---	---	---	10.9	7.0	8.4	13.7	9.7	11.7	11.3	9.0	9.9
13	---	---	---	11.7	9.8	10.7	13.6	7.8	11.3	12.3	9.7	10.7
14	---	---	---	11.4	7.0	8.6	8.9	7.7	8.0	11.6	9.5	10.3
15	---	---	---	9.7	7.2	8.2	9.0	7.7	8.1	13.4	10.0	11.5
16	---	---	---	7.8	7.1	7.3	11.3	7.8	8.7	13.8	12.6	12.9
17	---	---	---	8.4	7.0	7.4	10.3	7.8	8.8	14.1	8.9	12.3
18	---	---	---	8.3	7.1	7.5	10.5	8.1	9.4	10.4	8.8	9.2
19	---	---	---	10.2	7.1	7.6	11.9	8.0	9.3	11.6	8.8	9.9
20	---	---	---	9.3	7.2	7.6	9.9	7.8	8.7	13.8	8.4	10.9
21	---	---	---	9.9	7.2	7.6	9.6	8.0	8.8	9.2	8.4	8.6
22	---	---	---	9.7	7.2	7.7	10.8	8.0	8.5	10.3	8.4	9.2
23	---	---	---	8.1	7.2	7.4	10.9	8.1	8.7	11.9	9.7	10.7
24	---	---	---	8.1	7.1	7.4	10.4	8.0	8.4	12.9	11.6	12.1
25	---	---	---	8.0	7.1	7.4	9.6	8.0	8.4	14.0	11.2	11.9
26	---	---	---	8.2	7.3	7.5	11.4	8.2	9.2	12.4	10.3	11.4
27	8.8	7.9	8.3	8.1	7.3	7.5	9.9	8.2	8.9	13.1	11.3	11.9
28	10.9	8.0	9.0	9.1	7.3	7.9	10.2	8.1	8.5	12.9	11.0	11.8
29	13.8	5.1	11.4	11.4	7.5	8.3	10.7	8.0	8.5	13.1	11.6	12.0
30	15.1	12.3	13.2	8.6	7.4	7.7	9.6	7.9	8.6	12.9	11.2	11.9
31	---	---	---	8.2	7.3	7.6	10.6	8.1	9.2	---	---	---
MONTH	15.1	5.1	10.5	14.4	6.9	8.3	13.7	7.4	8.6	16.5	8.0	10.8

07053600 LAKE TANEYCOMO AT COLLEGE OF THE OZARKS--Continued

OXYGEN DISSOLVED (mg/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.32	2.69	6.91	7.10	5.04	6.09	6.66	5.90	6.28	12.4	11.1	11.8
2	7.47	1.88	5.57	7.67	5.01	5.99	8.28	6.06	6.72	11.9	10.9	11.5
3	7.34	1.00	3.87	6.63	1.61	5.59	8.95	6.27	7.44	12.0	10.9	11.2
4	7.39	.83	4.22	7.22	1.91	5.50	8.88	6.24	6.77	11.6	10.9	11.2
5	7.49	1.08	4.30	7.14	4.88	6.19	9.49	6.77	7.55	---	---	---
6	9.18	2.65	6.13	8.56	5.52	6.90	9.35	6.21	7.48	---	---	---
7	10.5	5.22	7.82	6.96	4.36	5.77	10.3	7.21	8.43	---	---	---
8	11.6	6.04	8.57	7.06	3.88	4.78	10.3	6.86	8.12	---	---	---
9	11.4	5.86	8.55	6.94	4.10	4.68	9.06	7.51	8.16	---	---	---
10	8.98	1.77	6.52	7.23	3.82	4.79	8.06	6.75	7.37	---	---	---
11	8.47	2.50	5.95	6.29	3.53	4.67	8.98	6.50	7.64	---	---	---
12	12.0	7.50	9.60	7.61	5.17	6.76	10.2	7.70	8.74	---	---	---
13	10.2	7.58	8.70	8.34	4.99	6.27	9.41	7.70	8.32	---	---	---
14	10.1	7.01	8.02	7.37	5.55	6.68	10.0	8.43	9.06	---	---	---
15	11.3	6.41	7.87	7.45	5.24	5.87	9.89	9.22	9.55	---	---	---
16	7.65	5.74	6.73	7.21	4.58	5.42	9.80	8.89	9.37	---	---	---
17	9.21	4.61	6.78	8.37	4.68	6.32	10.6	8.72	9.76	---	---	---
18	8.38	4.23	6.03	7.14	4.49	5.55	10.7	8.70	9.33	---	---	---
19	9.62	4.39	6.46	8.72	5.91	7.48	11.1	9.09	9.71	---	---	---
20	6.97	4.12	5.36	8.90	5.82	7.15	11.5	9.45	10.4	---	---	---
21	5.86	3.99	5.01	9.29	5.80	7.05	11.9	10.2	11.0	---	---	---
22	9.14	4.82	6.25	7.50	5.77	6.69	11.1	9.86	10.4	---	---	---
23	6.54	4.42	5.72	8.28	7.05	7.64	11.5	9.80	10.5	---	---	---
24	8.59	4.12	5.96	8.25	6.57	7.49	11.5	10.4	10.8	---	---	---
25	11.0	3.76	5.51	9.13	6.55	7.08	11.2	10.4	10.7	---	---	---
26	6.62	3.20	5.08	8.59	7.32	7.81	12.0	10.5	11.0	---	---	---
27	7.48	4.66	5.97	8.08	6.06	7.14	11.7	11.1	11.2	---	---	---
28	8.92	3.10	5.83	7.49	5.98	6.47	11.7	10.7	11.2	---	---	---
29	9.04	5.18	6.12	8.00	6.24	6.75	12.4	11.1	11.6	---	---	---
30	7.20	5.13	5.99	8.00	6.37	7.25	12.5	11.1	11.6	---	---	---
31	7.55	3.46	5.59	---	---	---	12.4	11.5	11.9	---	---	---
MONTH	12.0	.83	6.35	9.29	1.61	6.33	12.5	5.90	9.29	12.4	10.9	11.4
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	13.2	9.82	11.2	11.5	8.15	9.46	10.6	7.72	9.40
2	---	---	---	11.4	9.56	10.4	11.1	7.84	8.49	9.69	6.64	7.64
3	---	---	---	14.3	10.3	12.6	11.0	7.69	8.87	9.25	6.38	7.90
4	---	---	---	14.1	11.9	12.9	11.2	7.80	8.72	9.81	6.16	7.19
5	---	---	---	13.1	10.3	11.9	12.0	8.36	9.55	10.3	5.74	7.19
6	---	---	---	13.0	9.97	11.5	11.6	8.20	9.09	10.9	5.56	6.93
7	---	---	---	12.4	9.27	10.8	11.6	7.31	8.55	8.66	6.05	7.15
8	---	---	---	12.9	10.3	11.2	11.3	7.59	8.60	9.89	7.10	8.66
9	---	---	---	10.4	9.12	9.83	12.4	7.65	8.61	10.6	8.06	9.29
10	---	---	---	10.7	8.55	9.14	12.9	8.31	9.81	11.7	6.67	8.76
11	---	---	---	13.0	8.08	9.82	11.0	8.73	9.70	10.3	6.15	7.60
12	---	---	---	12.8	9.29	10.8	14.1	8.60	11.6	10.5	7.12	8.71
13	---	---	---	13.9	10.9	12.3	13.6	7.37	10.4	11.6	7.37	9.34
14	---	---	---	14.2	9.82	11.4	9.96	7.37	8.49	11.1	7.72	8.93
15	---	---	---	12.9	9.45	10.7	10.8	7.84	9.06	10.9	7.74	8.52
16	---	---	---	11.3	9.62	10.3	13.6	8.26	9.52	12.1	9.51	10.6
17	---	---	---	12.1	8.79	10.2	10.3	8.12	9.30	12.7	7.24	9.79
18	---	---	---	12.4	8.62	9.78	11.8	8.48	10.2	11.1	5.94	8.37
19	---	---	---	12.8	8.66	9.62	13.2	8.15	9.34	10.6	7.59	8.85
20	---	---	---	12.1	7.63	9.07	11.1	7.23	9.07	13.0	5.97	9.93
21	---	---	---	13.0	8.45	9.58	10.9	7.16	8.58	9.90	5.59	7.32
22	---	---	---	12.4	8.62	9.61	10.8	5.59	7.21	10.5	6.92	7.68
23	---	---	---	11.8	8.68	9.68	10.2	5.21	6.61	11.0	7.57	9.16
24	---	---	---	12.2	8.52	9.72	9.14	5.78	7.00	13.0	9.51	11.0
25	---	---	---	11.6	8.53	9.44	---	---	---	12.4	8.13	10.2
26	---	---	---	11.9	8.70	9.38	---	---	---	12.2	8.42	10.3
27	---	---	---	11.6	8.45	9.63	---	---	---	12.5	7.79	9.95
28	---	---	---	13.0	9.31	10.5	---	---	---	12.8	9.32	10.7
29	---	---	---	11.8	9.06	10.3	---	---	---	---	---	---
30	13.8	11.1	12.5	11.8	7.92	9.39	---	---	---	---	---	---
31	---	---	---	11.2	7.91	9.07	10.4	6.80	8.05	---	---	---
MONTH	13.8	11.1	12.5	14.3	7.63	10.4	14.1	5.21	8.96	13.0	5.56	8.82

07053700 LAKE TANEYCOMO AT BRANSON, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°38'09", long 93°12'52", in SE $^1/_4$ SE $^1/_4$ NW $^1/_4$ sec.4, T.22 N., R.21 W., Taney County, Hydrologic Unit 11010003, 1,000 ft downstream of Turkey Creek, at bridge on Business Route 65 in Branson.

PERIOD OF RECORD.--July 1977 to June 1991 and November 1996 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	OXYGEN, DISSOLVED (mg/L) (00300)	OXYGEN, DISSOLVED (percent saturation) (00301)	pH WATER WHOLE FIELD (standard units) (00400)	SPECIFIC CONDUCTANCE (µS/cm) (00095)	TEMPERATURE WATER (deg C) (00010)	HARDNESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DISSOLVED (mg/L as Ca) (00915)	MAGNESIUM, DISSOLVED (mg/L as Mg) (00925)	POTASSIUM, DISSOLVED (mg/L as K) (00935)	SODIUM, DISSOLVED (mg/L as Na) (00930)
NOV												
08...	0735	ENVIRONMENTAL	6.3	57	7.4	243	10.8	110	34.8	6.64	1.23	5.3
MAR												
07...	0815	ENVIRONMENTAL	12.9	102	8.2	232	5.8	--	--	--	--	--
APR												
02...	1230	ENVIRONMENTAL	11.4	98	7.9	264	8.6	--	--	--	--	--
02...	1231	REPLICATE	--	--	--	--	--	--	--	--	--	--
MAY												
02...	0815	ENVIRONMENTAL	10.2	90	7.6	262	9.9	110	33.3	6.79	1.48	7.7
JUN												
26...	0900	ENVIRONMENTAL	9.3	109	8.0	277	22.3	--	--	--	--	--
JUL												
10...	1415	ENVIRONMENTAL	8.8	79	7.5	249	8.9	--	--	--	--	--

DATE	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICARBONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CARBONATE IT FIELD (mg/L as CO_3) (00447)	CHLORIDE, DISSOLVED (mg/L as Cl) (00940)	FLUORIDE, DISSOLVED (mg/L as F) (00950)	SULFATE DISSOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	NITROGEN, AMMONIA DISSOLVED (mg/L as N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITROGEN, NO_2+NO_3 DISSOLVED (mg/L as N) (00631)	NITROGEN, NITRITE DISSOLVED (mg/L as N) (00613)
NOV													
08...	114	114	140	0	7.2	<.2	7.3	<10	138	.050	.24	.181	<.006
MAR													
07...	95	95	116	0	--	--	--	--	--	<.041	.22	.123	<.006
APR													
02...	101	101	123	0	--	--	--	--	--	<.041	.25	.205	<.006
02...	--	--	--	--	--	--	--	--	--	<.041	.23	.261	<.006
MAY													
02...	110	109	133	0	9.6	<.2	9.0	<10	150	<.041	.22	.222	<.006
JUN													
26...	109	110	135	0	--	--	--	--	--	E.031	.32	.285	.011
JUL													
10...	105	105	128	0	--	--	--	--	--	<.040	.20	.371	<.006

DATE	PHOSPHORUS DISSOLVED (mg/L as P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) (00671)	PHOSPHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEMICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	ARSENIC DISSOLVED (µg/L as As) (01000)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	COPPER, DISSOLVED (µg/L as Cu) (01040)
NOV													
08...	<.060	<.018	E.030	<10	120	120	135	<15	E16	--	<8.00	<.11	<4.7
MAR													
07...	<.060	<.018	<.060	--	K9	K14	K1	--	--	--	--	--	--
APR													
02...	<.060	<.018	<.060	--	K1	K3	95	--	--	--	--	--	--
02...	<.060	<.018	<.060	--	--	--	--	--	--	--	--	--	--
MAY													
02...	<.060	<.018	<.060	15	K12	20	21	21	17	.5	<8.00	<.11	<4.7
JUN													
26...	<.060	<.020	<.060	--	21	28	K13	--	--	--	--	--	--
JUL													
10...	<.060	<.020	<.060	--	27	40	27	--	--	--	--	--	--

07053700 LAKE TANEYCOMO AT BRANSON, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	2,6-DI-ACETO-CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)
NOV												
08...	<10	<.08	<1	135	<.14	<31	<.002	<.004	<.002	<.005	E.003	<.010
MAR												
07...	--	--	--	--	--	--	<.002	<.004	<.002	<.005	E.005	<.010
APR												
02...	--	--	--	--	--	--	<.002	<.004	<.002	<.005	E.005	<.010
02...	--	--	--	--	--	--	<.002	<.004	<.002	<.005	E.005	<.010
MAY												
02...	M	E.04	<1	12.2	<.01	4	<.002	<.004	<.002	<.005	E.005	<.010
JUN												
26...	--	--	--	--	--	--	<.002	<.004	<.002	<.005	<.007	<.010
JUL												
10...	--	--	--	--	--	--	<.002	<.004	<.002	<.005	.009	<.010

DATE	BUTYL-ATE, WATER, DISS, REC (µg/L) (04028)	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (µg/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)	DI-ELDRIN DIS-SOLVED (µg/L) (39381)	DISUL-FOTON WATER FLTRD 0.7µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7µ GF, REC (µg/L) (82663)	ETHO-PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)
NOV													
08...	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.021	<.002	<.009	<.005
MAR													
07...	<.002	<.041	<.020	<.005	<.018	<.003	E.003	<.005	<.005	<.021	<.002	<.009	<.005
APR													
02...	<.002	<.041	<.020	<.005	<.018	<.003	E.002	E.002	<.005	<.021	<.002	<.009	<.005
02...	<.002	<.041	<.020	<.005	<.018	<.003	E.004	E.002	<.005	<.021	<.002	<.009	<.005
MAY													
02...	<.002	<.041	<.020	<.005	<.018	<.003	E.003	<.005	<.005	<.021	<.002	<.009	<.005
JUN													
26...	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.021	<.002	<.009	<.005
JUL													
10...	<.002	<.041	<.020	<.005	<.018	<.003	E.003	E.002	<.005	<.021	<.002	<.009	<.005

DATE	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS-SOLVED (µg/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA-THION, DIS-SOLVED (µg/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA-THION, DIS-SOLVED (µg/L) (39542)	PEB-ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)
NOV													
08...	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
MAR													
07...	<.003	<.004	<.035	<.027	<.050	<.006	E.002	<.006	<.002	<.007	<.003	<.007	<.002
APR													
02...	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
02...	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
MAY													
02...	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
JUN													
26...	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002
JUL													
10...	<.003	<.004	<.035	<.027	<.050	<.006	E.003	<.006	<.002	<.007	<.003	<.007	<.002

07053700 LAKE TANEYCOMO AT BRANSON, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PENDI-METH-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO-PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI-MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER-BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)
NOV													
08...	<.010	<.006	<.011	E.005	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017	<.005
MAR													
07...	<.010	<.006	<.011	E.006	<.004	<.010	<.011	<.023	E.004	E.009	<.034	<.017	<.005
APR													
02...	<.010	<.006	<.011	E.008	<.004	<.010	<.011	<.023	<.011	E.010	<.034	<.017	<.005
02...	<.010	<.006	<.011	E.008	<.004	<.010	<.011	<.023	E.003	E.010	<.034	<.017	<.005
MAY													
02...	<.010	<.006	<.011	E.007	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017	<.005
JUN													
26...	<.010	<.006	<.011	E.009	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017	<.005
JUL													
10...	<.010	<.006	<.011	E.006	<.004	<.010	<.011	<.023	<.011	E.007	<.034	<.017	<.005

DATE	TRIAL-LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)
NOV		
08...	<.002	<.009
MAR		
07...	<.002	<.009
APR		
02...	<.002	<.009
02...	<.002	<.009
MAY		
02...	<.002	<.009
JUN		
26...	<.002	<.009
JUL		
10...	<.002	<.009

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07053810 BULL CREEK NEAR WALNUT SHADE, MO

LOCATION.--Lat 36°43'05", long 93°12'24", in NW $^1/_4$ SE $^1/_4$ SE $^1/_4$ sec.4, T.23 N., R.21 W., Taney County, Hydrologic Unit 11010003, on downstream side of State Highway F bridge pier, 1.3 miles southwest of Walnut Shade and 3.9 miles upstream from Lake Taneycomo.

DRAINAGE AREA.--191 mi^2.

PERIOD OF RECORD.--October 1994 to September 1996, October 1997 to current year. Stage only station July 1991 to September 1994, and October 1996 to September 1997.

GAGE.--Water-stage recorder. Datum of gage is 712.45 ft above sea level.

REMARKS.--Records fair except estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	16	65	e40	338	416	59	48	37	218	36	10
2	10	17	55	e37	249	343	59	45	36	129	30	10
3	8.8	15	46	e35	199	288	59	43	47	82	25	10
4	8.0	15	43	e33	169	248	58	41	48	59	21	9.7
5	8.1	15	38	35	147	210	58	41	42	150	18	8.5
6	9.1	117	36	e43	131	179	55	40	35	385	15	7.6
7	8.6	167	34	59	117	160	54	44	30	175	16	6.5
8	8.3	153	33	111	107	149	51	40	26	106	18	12
9	8.0	190	31	134	165	135	51	37	23	72	15	24
10	8.4	172	32	124	311	126	49	35	21	55	13	15
11	8.3	135	232	120	260	119	53	36	18	45	11	9.7
12	8.2	109	334	157	224	115	80	39	16	37	12	8.3
13	7.8	103	220	334	240	110	84	37	14	34	11	7.0
14	7.5	100	152	774	560	103	74	35	13	29	9.6	5.7
15	7.4	90	128	693	1310	113	116	32	25	25	8.6	4.8
16	18	78	172	454	1180	152	193	30	22	23	9.1	4.2
17	15	66	206	316	718	149	162	28	33	22	8.5	3.8
18	12	56	171	246	475	132	143	35	31	20	9.5	4.4
19	9.9	52	143	200	365	119	128	41	28	20	9.8	4.6
20	8.4	46	121	165	296	108	119	61	25	22	8.7	3.8
21	7.5	42	99	140	246	101	109	156	30	16	8.4	3.5
22	7.6	39	e85	123	228	95	100	226	28	13	7.8	3.7
23	7.3	40	e72	110	328	87	90	153	23	11	7.0	3.6
24	7.3	166	e65	100	5850	81	84	111	20	11	7.1	3.5
25	6.7	995	61	92	2990	76	76	85	18	11	7.8	3.2
26	7.2	434	e57	86	1200	69	69	68	16	13	8.7	3.3
27	12	217	e53	81	771	66	64	56	14	15	9.2	3.4
28	16	140	e48	77	541	64	60	48	14	26	8.7	3.6
29	18	103	e48	451	---	62	55	41	16	37	7.6	3.6
30	19	80	e45	901	---	63	51	41	313	44	7.4	3.6
31	18	---	e41	528	---	61	---	39	---	40	8.6	---
MEAN	10.3	132	95.7	219	704	139	82.1	58.5	35.4	62.7	12.7	6.82
MAX	19	995	334	901	5850	416	193	226	313	385	36	24
MIN	6.7	15	31	33	107	61	49	28	13	11	7.0	3.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)

MEAN	27.7	120	112	295	323	325	396	263	179	80.4	16.2	31.5
MAX	72.3	402	145	721	704	834	809	638	594	323	45.8	165
(WY)	1999	1995	1995	1995	2001	1998	1995	1995	1995	2000	2000	1996
MIN	4.75	6.24	74.7	72.4	44.0	68.0	63.9	31.4	34.7	2.31	3.02	4.77
(WY)	2000	2000	1999	2000	1996	1996	2000	2000	1994	1992	1996	1995

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	118		126		176	
HIGHEST ANNUAL MEAN					330	1995
LOWEST ANNUAL MEAN					95.1	1996
HIGHEST DAILY MEAN	1890	Jun 21	5850	Feb 24	6280	Jan 13 1995
LOWEST DAILY MEAN	5.6	Sep 20	3.2	Sep 25	1.6	Sep 14 1996
ANNUAL SEVEN-DAY MINIMUM	6.7	Sep 16	3.5	Sep 21	1.8	Aug 17 1992
MAXIMUM PEAK FLOW	---		7840	Feb 24	16700	Jan 13 1995
MAXIMUM PEAK STAGE	---		8.33	Feb 24	11.25	Jan 13 1995
INSTANTANEOUS LOW FLOW	---		2.9	Sep 24-26	1.6	Sep 13 1996
10 PERCENT EXCEEDS	253		242		380	
50 PERCENT EXCEEDS	40		45		40	
90 PERCENT EXCEEDS	8.6		8.0		3.2	

e Estimated

07053900 SWAN CREEK NEAR SWAN, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°47'02", long 93°05'04", in SW $^1/_4$ SE $^1/_4$ NE $^1/_4$ sec.3, T.24 N., R.20 W., Taney County, Hydrologic Unit 11010003, 0.8 mi south of Swan, 4.0 mi northwest of Highway 76 on County Highway AA.

DRAINAGE AREA.--148 mi^2.

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
08...	1025	ENVIRONMENTAL	112	9.5	113	8.1	392	12.1	220	48.3	23.7	.77
08...	1025	BLANK	--	--	--	--	--	--	0	.06	.017	<.09
JAN												
16...	1510	BLANK	--	--	--	--	--	--	--	--	--	--
16...	1530	ENVIRONMENTAL	257	17.1	136	7.7	333	5.8	--	--	--	--
MAR												
06...	1540	BLANK	--	--	--	--	--	--	--	--	--	--
06...	1550	ENVIRONMENTAL	122	11.3	98	8.2	363	9.3	--	--	--	--
MAY												
01...	1600	ENVIRONMENTAL	42	9.1	104	7.6	407	22.4	210	45.2	23.6	.78
01...	1610	BLANK	--	--	--	--	--	--	--	.03	<.008	<.09
JUL												
10...	1115	BLANK	--	--	--	--	--	--	--	--	--	--
10...	1145	ENVIRONMENTAL	61	6.9	85	8.0	412	24.1	--	--	--	--
SEP												
12...	0915	ENVIRONMENTAL	18	6.6	75	8.0	452	20.2	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
08...	4.0	206	208	253	0	4.9	E.1	7.9	<10	229	<.041	.12	.433
08...	.4	--	--	--	--	<.1	<.2	<.1	<10	<10	<.041	<.08	<.047
JAN													
16...	--	--	--	--	--	--	--	--	--	--	<.041	<.08	<.047
16...	--	163	163	199	0	--	--	--	--	--	<.041	.10	.623
MAR													
06...	--	--	--	--	--	--	--	--	--	--	<.041	<.08	<.047
06...	--	176	175	214	0	--	--	--	--	--	<.041	E.05	.619
MAY													
01...	2.4	198	204	249	0	5.2	E.1	6.6	<10	242	<.041	.14	.106
01...	.8	--	--	--	--	.1	<.2	.4	<10	10	<.041	E.04	<.047
JUL													
10...	--	--	--	--	--	--	--	--	--	--	<.040	<.08	<.050
10...	--	218	218	266	0	--	--	--	--	--	<.040	.13	.210
SEP													
12...	--	223	224	274	0	--	--	--	--	--	<.040	.09	.110

07053900 SWAN CREEK NEAR SWAN, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
08...	<.006	<.060	<.018	<.060	<10	68	79	260	<15	<28	--	<8.00	<.11
08...	<.006	<.060	<.018	<.060	<10	--	--	--	<15	<28	--	<8.00	<.11
JAN													
16...	<.006	<.060	<.018	<.060	--	--	--	--	--	--	--	--	--
16...	<.006	<.060	<.018	<.060	--	K8	K13	48	--	--	--	--	--
MAR													
06...	<.006	<.060	<.018	<.060	--	--	--	--	--	--	--	--	--
06...	<.006	<.060	<.018	<.060	--	K1	K2	K4	--	--	--	--	--
MAY													
01...	<.006	<.060	<.018	<.060	15	K3	23	31	7	16	.2	<8.00	<.11
01...	<.006	<.060	<.018	<.060	10	--	--	--	7	7	<.2	<8.00	<.11
JUL													
10...	<.006	<.060	<.020	<.060	--	--	--	--	--	--	--	--	--
10...	<.006	<.060	<.020	<.060	--	K99	170	240	--	--	--	--	--
SEP													
12...	<.006	<.060	<.020	<.060	--	77	K73	250	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV								
08...	<4.7	<10	E.06	<1	E1.7	<.14	E19	<31
08...	<4.7	<10	<.08	<1	<3.2	<.14	<20	<31
JAN								
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
MAR								
06...	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--
MAY								
01...	<4.7	<10	E.04	M	6.2	<.01	--	1
01...	<4.7	<10	<.08	<1	<3.2	<.01	1	1
JUL								
10...	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--
SEP								
12...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07054080 BEAVER CREEK AT BRADLEYVILLE, MO

LOCATION.--Lat 36°46'47", long 92°54'25", in NE $^1/_4$ SW $^1/_4$ NW $^1/_4$ sec.11, T.24 N., R.18 W., Taney County, Hydrologic Unit 11010003, on downstream side of right bridge pier on State Highway 76 and 0.5 mi east of Bradleyville.

DRAINAGE AREA.--298 mi^2.

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 803.00 ft. above sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	27	114	e63	321	577	104	64	42	49	27	19
2	27	32	100	e62	258	490	105	77	41	41	25	18
3	26	29	89	e61	219	425	110	74	68	37	24	17
4	25	28	80	e60	196	370	104	70	58	34	33	17
5	25	28	73	e59	177	319	101	70	51	924	33	16
6	27	177	69	e60	164	282	99	71	49	305	28	16
7	26	164	64	e63	151	256	96	76	47	152	26	15
8	24	193	60	66	140	236	94	70	44	105	27	23
9	23	197	58	e78	198	217	92	63	42	81	25	41
10	23	183	55	e95	297	202	89	60	39	69	24	34
11	24	162	109	e109	277	191	93	61	37	61	25	26
12	23	134	155	e126	231	182	96	60	35	56	26	22
13	23	127	189	163	246	170	92	54	33	54	26	21
14	21	116	172	374	458	159	90	51	33	49	23	20
15	21	108	149	518	1120	171	116	48	48	45	21	19
16	28	103	e137	418	1140	187	154	45	40	42	21	19
17	28	94	e128	332	720	195	163	44	34	42	21	20
18	27	83	e117	276	540	182	143	58	31	39	23	21
19	22	75	e109	234	450	170	130	69	30	36	21	21
20	20	68	e101	202	384	161	122	79	29	34	20	22
21	19	66	e96	179	330	154	116	112	36	33	19	26
22	19	61	e92	162	360	148	107	109	37	31	18	26
23	19	60	e87	148	479	141	101	110	32	29	17	25
24	20	105	e82	137	4740	134	94	78	29	29	17	26
25	18	328	e81	127	4090	126	86	57	28	34	18	24
26	18	324	e77	120	1560	120	82	51	27	36	18	24
27	59	258	e75	113	975	116	77	47	27	36	18	25
28	48	199	e73	108	713	113	73	42	30	41	17	24
29	35	159	e70	226	---	110	68	39	90	55	17	24
30	29	132	e67	487	---	110	64	42	65	35	17	24
31	27	---	e65	423	---	108	---	43	---	30	21	---
MEAN	25.9	127	96.5	182	748	210	102	64.3	41.1	85.3	22.5	22.5
MAX	59	328	189	518	4740	577	163	112	90	924	33	41
MIN	18	27	55	59	140	108	64	39	27	29	17	15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)

MEAN	59.9	294	166	339	557	542	483	401	201	80.3	63.6	89.3
MAX	134	1074	361	919	991	1349	935	909	593	168	168	309
(WY)	1999	1997	1997	1995	1999	1998	1995	1995	1995	1995	1995	1996
MIN	25.9	28.4	62.7	56.8	105	142	70.9	37.8	41.1	49.7	22.5	22.5
(WY)	2001	2000	2000	2000	2000	2000	2000	2000	2001	1997	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1994 - 2001	
ANNUAL MEAN	73.0		140		271	
HIGHEST ANNUAL MEAN					464	1995
LOWEST ANNUAL MEAN					62.5	2000
HIGHEST DAILY MEAN	487	Jun 22	4740	Feb 24	11100	Feb 7 1999
LOWEST DAILY MEAN	18	Oct 25,26	15	Sep 7	15	Sep 7 2001
ANNUAL SEVEN-DAY MINIMUM	19	Oct 20	17	Sep 1	17	Sep 1 2001
MAXIMUM PEAK FLOW	---		7700	Feb 24	17700	Feb 7 1999
MAXIMUM PEAK STAGE	---		10.21	Feb 24	14.03	Feb 7 1999
INSTANTANEOUS LOW FLOW	---		14	Sep 7,8	14	Sep 7 2001
10 PERCENT EXCEEDS	150		258		649	
50 PERCENT EXCEEDS	46		65		100	
90 PERCENT EXCEEDS	26		21		30	

e Estimated

07057500 NORTH FORK RIVER NEAR TECUMSEH, MO

LOCATION.--Lat 36°37'22", long 92°14'53", in NE $^1/_4$ SE $^1/_4$ sec.35, T.23 N., R.12 W., Ozark County, Hydrologic Unit 11010006, on right bank 3.2 mi downstream from Spring Creek, 3.5 mi northeast of Tecumseh.

DRAINAGE AREA.--561 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 584.67 ft above sea level (levels by the U.S. Army Corps of Engineers). Prior to May 12, 1945, nonrecording gage at same site and datum 0.22 ft lower.

REMARKS.--Water-discharge records fair. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	274	309	286	618	1100	410	360	367	325	e291	275
2	254	280	306	274	540	977	409	356	351	325	e288	275
3	253	276	310	281	490	887	410	354	351	320	285	272
4	248	277	308	283	459	815	417	347	368	314	284	272
5	249	277	303	284	435	745	525	347	353	310	283	272
6	247	348	298	287	416	694	508	346	334	306	280	271
7	263	409	296	291	401	652	483	363	324	304	283	270
8	267	362	295	294	387	622	463	348	319	299	281	277
9	267	315	297	295	396	596	446	339	315	296	284	298
10	e263	268	296	296	431	574	431	334	311	302	286	300
11	e259	262	297	296	471	555	429	330	310	309	329	294
12	e255	258	304	298	457	546	426	325	308	309	312	287
13	e251	263	347	311	479	530	412	320	306	306	302	282
14	e248	267	319	367	620	517	402	318	308	303	291	280
15	e245	267	291	495	940	518	425	315	327	297	286	277
16	293	264	301	569	1340	524	435	314	329	295	284	277
17	268	261	301	528	1210	527	442	310	320	294	283	277
18	262	258	297	487	1010	522	431	312	313	290	281	277
19	252	256	295	459	888	506	426	346	307	293	280	279
20	243	252	294	433	804	496	427	367	306	292	277	273
21	245	254	296	418	737	486	422	362	336	289	277	273
22	243	253	285	e399	720	476	414	443	443	287	276	273
23	240	253	290	e382	930	466	413	398	423	286	275	273
24	243	278	287	e365	1350	457	404	361	364	287	272	275
25	245	353	284	348	4590	444	394	342	333	316	272	273
26	245	378	285	338	2340	432	386	331	323	319	277	272
27	275	370	286	333	1650	426	380	322	316	305	277	272
28	287	348	286	325	1300	422	375	319	413	298	278	272
29	284	330	286	365	---	422	368	313	383	296	276	272
30	280	308	285	583	---	422	362	327	332	297	276	271
31	277	---	277	721	---	418	---	374	---	294	276	---
MEAN	258	294	297	377	943	573	422	343	340	302	284	277
MAX	293	409	347	721	4590	1100	525	443	443	325	329	300
MIN	240	252	277	274	387	418	362	310	306	286	272	270
IN.	.53	.58	.61	.78	1.75	1.18	.84	.71	.68	.62	.58	.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2001, BY WATER YEAR (WY)

MEAN	412	655	704	725	863	1065	1241	1116	758	537	411	423
MAX	1040	2751	2842	2322	2872	2473	3623	2775	2515	1632	889	2093
(WY)	1985	1986	1983	1950	1985	1945	1945	1957	1945	1951	1958	1993
MIN	214	224	223	201	261	290	359	343	276	239	204	193
(WY)	1957	1955	1956	1956	1964	1981	2000	2001	1954	1954	1954	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1945 - 2001	
ANNUAL MEAN	350		389		741	
HIGHEST ANNUAL MEAN					1555	1985
LOWEST ANNUAL MEAN					299	1954
HIGHEST DAILY MEAN	1330	May 27	4590	Feb 25	45100	Nov 19 1985
LOWEST DAILY MEAN	240	Oct 23	240	Oct 23	187	Sep 15 1954
ANNUAL SEVEN-DAY MINIMUM	243	Oct 20	243	Oct 20	188	Sep 12 1954
MAXIMUM PEAK FLOW	---		7310	Feb 25	133000	Nov 19 1985
MAXIMUM PEAK STAGE	---		7.98	Feb 25	28.10	Nov 19 1985
INSTANTANEOUS LOW FLOW	---		240	Oct 20-24	187	Sep 14 1954
ANNUAL RUNOFF (INCHES)	8.49		9.41		17.95	
10 PERCENT EXCEEDS	476		524		1330	
50 PERCENT EXCEEDS	307		310		500	
90 PERCENT EXCEEDS	264		267		292	

e Estimated

07057500 NORTH FORK RIVER NEAR TECUMSEH, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1969 to June 1972, October 1978 to September 1979, November 1983 to June 1987, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
06...	1355	ENVIRONMENTAL	351	10.9	110	8.1	373	16.6	210	43.2	24.9	1.02
JAN												
16...	1245	ENVIRONMENTAL	569	14.3	121	7.7	389	8.1	--	--	--	--
MAR												
05...	1420	ENVIRONMENTAL	736	11.5	105	8.0	292	11.8	--	--	--	--
MAY												
01...	1055	ENVIRONMENTAL	362	10.4	109	7.8	387	17.9	210	41.8	24.7	.76
01...	1056	REPLICATE	--	--	--	--	--	--	210	42.3	24.9	.96
JUL												
09...	1445	ENVIRONMENTAL	286	10.6	132	8.1	389	25.2	--	--	--	--
SEP												
11...	1500	ENVIRONMENTAL	292	10.3	116	8.1	394	20.5	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
06...	1.8	201	203	248	0	3.7	.2	5.1	<10	213	<.041	.09	.333
JAN													
16...	--	194	194	236	0	--	--	--	--	--	<.041	.32	.515
MAR													
05...	--	127	127	155	0	--	--	--	--	--	<.041	.09	1.68
MAY													
01...	2.5	192	192	235	0	4.0	<.2	4.6	<10	230	<.041	.09	.341
01...	2.3	--	--	--	--	3.9	<.2	4.6	<10	212	<.041	.12	.507
JUL													
09...	--	204	206	251	0	--	--	--	--	--	<.040	.14	.435
SEP													
11...	--	208	209	255	0	--	--	--	--	--	<.040	.14	.309

07057500 NORTH FORK RIVER NEAR TECUMSEH, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITROGEN, NITRITE DISSOLVED (mg/L as N) (00613)	PHOSPHORUS DISSOLVED (mg/L as P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) (00671)	PHOSPHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEMICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	ARSENIC DISSOLVED (µg/L as As) (01000)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
06...	<.006	<.060	<.018	<.060	<10	30	110	K72	E11	E24	--	<8.00	<.11
JAN													
16...	<.006	<.060	<.018	<.060	--	K3	K4	K16	--	--	--	--	--
MAR													
05...	<.006	<.060	E.009	E.044	--	K1	K10	K10	--	--	--	--	--
MAY													
01...	E.005	<.060	<.018	<.060	<10	K2	K13	K4	11	17	.4	<8.00	<.11
01...	E.004	<.060	<.018	<.060	<10	--	--	--	11	18	.3	<8.00	<.11
JUL													
09...	E.005	<.060	<.020	<.060	--	K1	24	K9	--	--	--	--	--
SEP													
11...	E.005	<.060	<.020	<.060	--	K1	K1	K7	--	--	--	--	--

DATE	COPPER, DISSOLVED (µg/L as Cu) (01040)	IRON, DISSOLVED (µg/L as Fe) (01046)	LEAD, DISSOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOVERABLE (µg/L as Pb) (01051)	MANGANESE, DISSOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOVERABLE (µg/L as Hg) (71900)	ZINC, DISSOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOVERABLE (µg/L as Zn) (01092)
NOV								
06...	<4.7	<10	E.05	<1	<3.2	<.14	12	<31
JAN								
16...	--	--	--	--	--	--	--	--
MAR								
05...	--	--	--	--	--	--	--	--
MAY								
01...	<4.7	M	E.05	<1	3.3	<.01	7	1
01...	<4.7	<10	E.05	<1	3.5	<.01	6	1
JUL								
09...	--	--	--	--	--	--	--	--
SEP								
11...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07057750 BRYANT CREEK BELOW EVANS, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°52'16", long 92°28'18", in SE $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec.10, T.25 N., R.14 W., Douglas County, Hydrologic Unit 11010006. Sampling site is located 13 mi south of Ava, 12 mi west of Highway 95 and Highway 14 intersection, on Highway 14.

DRAINAGE AREA.--214 mi^2.

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
06...	1110	ENVIRONMENTAL	54	9.2	93.5	8.1	401	15.9	219	46.3	25.0	1.32
JAN												
16...	1120	ENVIRONMENTAL	80	19.4	150	7.7	252	5.0	--	--	--	--
MAR												
05...	1140	ENVIRONMENTAL	125	11.7	100	8.0	337	8.5	--	--	--	--
MAY												
01...	1350	ENVIRONMENTAL	40	9.9	110	7.6	407	20.5	220	45.3	25.9	.92
JUL												
10...	0815	ENVIRONMENTAL	37	5.1	63.6	7.7	424	24.8	--	--	--	--
SEP												
12...	1230	ENVIRONMENTAL	40	8.3	94.2	7.7	436	19.7	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
06...	2.2	208	211	257	0	3.4	E.1	4.0	<10	224	<.041	.13	.448
JAN													
16...	--	195	195	238	0	--	--	--	--	--	<.041	E.05	.825
MAR													
05...	--	160	161	196	0	--	--	--	--	--	<.041	E.07	1.22
MAY													
01...	2.6	199	202	246	0	3.9	<.2	4.6	<10	226	<.041	.17	.310
JUL													
10...	--	224	225	275	0	--	--	--	--	--	E.023	.19	.277
SEP													
12...	--	224	227	277	0	--	--	--	--	--	<.040	E.08	.362

07057750 BRYANT CREEK BELOW EVANS, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
06...	E.003	<.060	<.018	<.060	<10	225	K410	K520	22	55	--	<8.00	<.11
JAN													
16...	E.005	<.060	<.018	<.060	--	K6	25	32	--	--	--	--	--
MAR													
05...	<.006	<.060	<.018	<.060	--	K1	K4	K19	--	--	--	--	--
MAY													
01...	.006	<.060	<.018	<.060	10	K2	32	31	9	23	.4	<8.00	<.11
JUL													
10...	E.004	<.060	<.020	<.060	--	K96	21	K600	--	--	--	--	--
SEP													
12...	.006	<.060	<.020	<.060	--	21	44	100	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV								
06...	<4.7	M	E.04	<1	E2.1	<.14	E14	<31
JAN								
16...	--	--	--	--	--	--	--	--
MAR								
05...	--	--	--	--	--	--	--	--
MAY								
01...	<4.7	<10	E.04	<1	7.8	<.01	--	4
JUL								
10...	--	--	--	--	--	--	--	--
SEP								
12...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07058000 BRYANT CREEK NEAR TECUMSEH, MO

LOCATION.--Lat 36°37'33", long 92°18'16", E $^1/_2$ sec.32, T.23 N., R.12 W., Ozark County, Hydrologic Unit 11010006, on left bank 0.8 mi downstream from Pine Creek, 3 mi northwest of Tecumseh, and 5 mi upstream from mouth.

DRAINAGE AREA.--570 mi^2.

PERIOD OF RECORD.--October 1944 to September 1985, October 1994 to September 1996, October 1998 to current year.

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1441: 1945, 1946-47(M), 1950. WSP 1731: 1945-47, 1950.

GAGE.--Water-stage recorder. Datum of gage 573.15 ft above sea level (levels by Corps of Engineers). Prior to July 30, 1945, nonrecording gage at same site and datum.

REMARKS.--Records good except for discharges above 7,500 ft^3/s, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	124	177	146	340	1140	217	187	179	148	141	139
2	127	130	171	143	308	955	223	184	175	142	134	138
3	126	127	164	e139	281	827	229	180	180	139	131	135
4	126	126	160	136	264	726	225	178	208	140	130	133
5	127	126	158	e140	248	630	215	180	199	141	127	132
6	130	195	156	e138	235	559	214	185	183	139	125	133
7	128	228	155	e136	225	516	209	197	175	135	126	131
8	124	215	154	e134	219	481	200	199	163	132	131	142
9	123	192	152	132	233	454	195	172	157	130	131	170
10	126	178	155	134	262	432	190	179	151	133	139	180
11	128	167	155	141	258	414	193	189	154	134	139	159
12	128	163	159	146	257	402	196	182	152	136	149	147
13	128	166	196	157	318	385	195	174	150	139	142	143
14	129	162	193	221	511	356	187	170	152	135	134	140
15	132	158	187	302	901	373	217	162	200	132	142	129
16	154	156	184	327	1220	382	230	169	200	131	137	126
17	162	152	181	308	1060	358	228	176	186	132	135	116
18	147	149	175	292	823	328	214	189	164	129	133	118
19	136	147	169	269	688	285	211	214	159	127	139	122
20	129	146	165	248	601	272	223	205	161	128	133	116
21	125	143	174	231	529	264	220	202	181	126	136	115
22	122	142	151	220	503	258	225	185	168	124	125	147
23	118	145	160	210	525	259	219	202	154	124	131	144
24	116	166	160	202	1190	260	213	184	152	127	129	141
25	116	261	151	195	3540	247	200	159	152	165	132	138
26	116	287	154	189	2380	225	196	154	149	187	135	130
27	129	255	160	185	1720	212	191	163	142	156	138	127
28	133	224	156	182	1360	227	191	152	142	147	135	124
29	129	202	151	232	---	230	188	149	168	147	131	121
30	128	186	149	362	---	221	183	165	156	156	136	116
31	126	---	139	374	---	220	---	202	---	165	140	---
MEAN	129	174	164	206	750	416	208	180	167	140	134	135
MAX	162	287	196	374	3540	1140	230	214	208	187	149	180
MIN	116	124	139	132	219	212	183	149	142	124	125	115
IN.	.26	.34	.33	.42	1.37	.84	.41	.36	.33	.28	.27	.26

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	236	408	507	503	635	840	942	855	512	344	226	229
MAX	893	1664	4280	2350	2129	2483	3497	3049	1990	1748	910	654
(WY)	1971	1952	1983	1950	1985	1945	1945	1957	1945	1951	1950	1996
MIN	112	127	119	112	141	138	178	175	118	110	105	103
(WY)	1957	1955	1956	1956	1981	1981	1981	1954	1954	1954	1954	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	186		230		519	
HIGHEST ANNUAL MEAN					1229	1985
LOWEST ANNUAL MEAN					149	1954
HIGHEST DAILY MEAN	619	Jun 22	3540	Feb 25	52000	Dec 3 1982
LOWEST DAILY MEAN	116	Oct 24-26	115	Sep 21	97	Aug 18 1954
ANNUAL SEVEN-DAY MINIMUM	120	Oct 20	120	Oct 20	99	Sep 13 1954
MAXIMUM PEAK FLOW	---		6620	Feb 25	71100	Dec 3 1982
MAXIMUM PEAK STAGE	---		10.43	Feb 25	26.74	Dec 3 1982
INSTANTANEOUS LOW FLOW	---		112	Sep 29,30	96	Sep 16,17 1954
ANNUAL RUNOFF (INCHES)	4.44		5.48		12.37	
10 PERCENT EXCEEDS	275		327		1030	
50 PERCENT EXCEEDS	162		162		261	
90 PERCENT EXCEEDS	130		127		141	

e Estimated

07061150 WEST FORK BLACK RIVER AT CENTERVILLE, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°26'44", long 90°57'45", SE $^1/_4$ SW $^1/_4$ SE $^1/_4$ sec.20, T.32 N., R.1 E., Reynolds County, Hydrologic Unit 11010007, approximately 1.0 mi north of Centerville on State Highway 72.

DRAINAGE AREA.--137 mi^2.

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV 13...	1115	ENVIRONMENTAL	57	11.0	103	8.1	390	12.7	186	35.6	23.5	.79
JAN 16...	1050	ENVIRONMENTAL	116	14.9	116	8.0	346	4.3	--	--	--	--
MAR 12...	1135	ENVIRONMENTAL	65	12.4	108	7.5	280	9.3	--	--	--	--
MAY 08...	1030	ENVIRONMENTAL	53	9.3	97.9	7.8	323	17.1	157	30.7	19.5	.81
JUL 16...	1030	ENVIRONMENTAL	26	7.5	90.0	7.9	354	23.0	--	--	--	--
SEP 04...	1300	ENVIRONMENTAL	29	6.8	86.8	7.6	373	26.4	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV 13...	6.7	157	159	194	0	7.2	E.1	29.9	<10	212	<.041	<.08	.066
JAN 16...	--	149	151	184	0	--	--	--	--	--	<.041	.13	.174
MAR 12...	--	117	117	142	0	--	--	--	--	--	<.041	E.07	.404
MAY 08...	5.3	136	139	170	0	5.4	E.1	20.6	<10	200	<.041	E.07	.069
JUL 16...	--	157	156	191	0	--	--	--	--	--	<.040	E.07	.083
SEP 04...	--	156	158	193	0	--	--	--	--	--	<.040	E.06	.061

07061150 WEST FORK BLACK RIVER AT CENTERVILLE, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
13...	<.006	<.060	<.018	<.060	<10	K1	K6	K11	<15	<28	--	<8.00	<.11
JAN													
16...	<.006	<.060	<.018	<.060	--	K2	K3	K12	--	--	--	--	--
MAR													
12...	<.006	<.060	<.018	<.060	--	K1	K3	K2	--	--	--	--	--
MAY													
08...	E.004	<.060	<.018	<.060	<10	K5	K3	20	6	9	E.1	<8.00	<.11
JUL													
16...	E.004	<.060	<.020	<.060	--	K3	K13	K6	--	--	--	--	--
SEP													
04...	<.006	<.060	<.020	<.060	--	K8	K6	K8	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV								
13...	<4.7	<10	<.08	<1	<3.2	<.14	E13	<31
JAN								
16...	--	--	--	--	--	--	--	--
MAR								
12...	--	--	--	--	--	--	--	--
MAY								
08...	<4.7	<10	<.08	<1	<3.2	<.01	--	2
JUL								
16...	--	--	--	--	--	--	--	--
SEP								
04...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

07061260 EAST FORK BLACK RIVER NEAR IRONTON, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°36'14", long 90°47'19", NW $^1/_4$ SE $^1/_4$ SE $^1/_4$ sec.35, T.34 N., R.2 E., Iron County, Hydrologic Unit 11010007, located approximately 6.0 mi southwest of State Highway 21 on State Highway N.

DRAINAGE AREA.--16 mi^2.

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
16...	0945	ENVIRONMENTAL	3.9	10.4	89.5	8.0	273	8.1	149	30.4	17.7	.90
JAN												
16...	1310	ENVIRONMENTAL	22	16.2	124	7.5	142	3.9	--	--	--	--
MAR												
12...	1030	ENVIRONMENTAL	5.6	13.2	113	7.8	214	8.9	--	--	--	--
MAY												
09...	1415	ENVIRONMENTAL	4.7	9.4	106	7.7	224	20.9	112	22.7	13.4	.43
JUL												
16...	1150	ENVIRONMENTAL	6.1	8.3	90.6	7.3	135	17.8	--	--	--	--
SEP												
04...	1100	ENVIRONMENTAL	7.1	7.1	88.0	7.2	116	24.4	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
16...	2.6	140	141	172	0	2.8	E.1	7.2	<10	160	<.041	.64	E.030
JAN													
16...	--	58	57	70	0	--	--	--	--	--	<.041	.08	.190
MAR													
12...	--	95	95	116	0	--	--	--	--	--	<.041	<.08	.059
MAY													
09...	3.1	101	103	126	0	2.8	<.2	6.8	<10	104	<.041	.08	E.026
JUL													
16...	--	65	66	80	0	--	--	--	--	--	.119	.27	.048
SEP													
04...	--	47	48	59	0	--	--	--	--	--	E.034	.20	.067

07061260 EAST FORK BLACK RIVER NEAR IRONTON, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV 16...	<.006	<.060	<.018	.071	<10	K1	K7	K8	6	13	E.1	<8.00	<.11
JAN 16...	<.006	<.060	<.018	<.060	--	K7	K6	27	--	--	--	--	--
MAR 12...	<.006	<.060	<.018	<.060	--	K1	K11	K4	--	--	--	--	--
MAY 09...	E.004	<.060	<.018	<.060	<10	K1	K2	K11	10	20	E.2	<8.00	<.11
JUL 16...	E.004	<.060	<.020	<.060	--	K9	K16	74	--	--	--	--	--
SEP 04...	E.003	<.060	<.020	<.060	--	K13	K8	36	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV 16...	<4.7	M	E.07	<1	5.1	<.14	2
JAN 16...	--	--	--	--	--	--	--
MAR 12...	--	--	--	--	--	--	--
MAY 09...	<4.7	10	E.05	<1	9.7	<.01	3
JUL 16...	--	--	--	--	--	--	--
SEP 04...	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07061500 BLACK RIVER NEAR ANNAPOLIS, MO

LOCATION.--Lat 37°20'10", long 90°47'19", in SW $^1/_4$ NW $^1/_4$ sec.25, T.31 N., R.2 E., Reynolds County, Hydrologic Unit 11010007, on right bank 0.4 mi downstream from Mayberry Branch, 7 mi southwest of Annapolis, 11 mi downstream from East Fork, and at mile 278.5.

DRAINAGE AREA.--484 mi^2.

PERIOD OF RECORD.--April 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 569.72 ft above sea level (levels by the U.S. Army Corps of Engineers). Prior to Aug. 21, 1942, at site 415 ft upstream at same datum.

REMARKS.--Records good. Flow slightly regulated by upstream reservoir since February 1963. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	131	225	180	684	795	258	220	367	173	552	117
2	108	134	218	175	639	747	278	215	282	151	337	123
3	107	133	213	173	562	577	333	209	262	140	270	116
4	105	132	207	174	390	500	788	201	283	135	237	110
5	106	131	201	176	345	469	2070	184	383	129	213	113
6	105	147	196	177	319	461	1230	182	372	123	194	117
7	102	157	192	179	303	399	892	182	262	118	180	111
8	103	183	176	184	290	369	730	178	230	114	162	108
9	103	188	168	172	328	377	540	170	213	110	157	123
10	103	202	165	173	667	311	513	162	199	107	153	132
11	104	207	192	174	821	293	553	155	188	105	156	149
12	105	206	250	176	617	281	419	152	244	120	155	150
13	107	209	282	195	560	267	380	147	169	123	157	132
14	107	208	324	234	814	254	347	144	148	122	155	120
15	108	208	470	344	1320	238	343	139	159	117	150	113
16	143	193	269	599	1600	282	408	137	156	112	146	110
17	188	181	241	681	1290	326	482	133	160	117	140	107
18	210	173	228	411	973	315	407	152	154	118	148	125
19	209	165	229	355	769	327	313	213	142	125	144	122
20	194	159	225	327	649	317	314	256	131	133	137	118
21	176	155	203	303	515	292	297	289	140	130	128	116
22	165	151	193	293	502	283	282	354	156	131	118	113
23	159	155	186	330	468	305	302	239	166	126	111	110
24	155	171	182	330	655	300	312	204	158	377	106	111
25	152	225	178	266	5400	282	271	187	146	786	107	107
26	148	255	175	243	e1840	300	254	180	134	324	112	106
27	141	271	175	232	e1300	311	263	171	126	268	108	105
28	137	262	173	224	1150	286	252	165	122	241	105	103
29	135	244	183	244	---	268	230	159	120	2990	103	102
30	136	233	185	452	---	262	223	160	153	1730	102	101
31	133	---	184	704	---	261	---	211	---	619	107	---
MEAN	134	186	216	286	920	357	476	189	198	329	166	116
MAX	210	271	470	704	5400	795	2070	354	383	2990	552	150
MIN	102	131	165	172	290	238	223	133	120	105	102	101
IN.	.32	.43	.51	.68	1.98	.85	1.10	.45	.46	.79	.40	.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

MEAN	265	652	670	607	747	993	1157	866	512	294	210	227
MAX	1151	3619	3913	2509	2091	2903	3467	2928	4263	1800	1289	1061
(WY)	1942	1986	1983	1950	1985	1945	1957	1957	1945	1951	1982	1993
MIN	84.8	111	119	108	147	161	228	165	140	88.5	76.7	72.4
(WY)	1957	1965	1956	1956	1963	1941	2000	2000	1972	1954	1965	1955

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL MEAN	224		293		599	
HIGHEST ANNUAL MEAN					1420	1985
LOWEST ANNUAL MEAN					235	2000
HIGHEST DAILY MEAN	2080	Feb 27	5400	Feb 25	47900	Nov 14 1993
LOWEST DAILY MEAN	86	Sep 6,7	101	Sep 30	66	Sep 15 1954
ANNUAL SEVEN-DAY MINIMUM	88	Sep 3	104	Oct 6	67	Aug 12 1965
MAXIMUM PEAK FLOW	---		8970	Feb 25	109000	Nov 14 1993
MAXIMUM PEAK STAGE	---		10.22	Feb 25	27.38	Nov 14 1993
INSTANTANEOUS LOW FLOW	---		101	Oct 7,8,Aug 30, Sep 29,30	65	Aug 16 1965
ANNUAL RUNOFF (INCHES)	6.31		8.23		16.83	
10 PERCENT EXCEEDS	387		545		1150	
50 PERCENT EXCEEDS	181		187		277	
90 PERCENT EXCEEDS	106		111		118	

e Estimated

07061600 BLACK RIVER BELOW ANNAPOLIS, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°19'30", long 90°45'50", in NE $^1/_4$ SE $^1/_4$ NW $^1/_4$ sec.3, T.31 N., R.31 E., Reynolds County, Hydrologic Unit 11010007. Sampling site located approximately 4.5 mi southwest of Annapolis at the bridge on County Highway K.

DRAINAGE AREA.--493 mi^2.

PERIOD OF RECORD.--May 1993 to September 1995, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
13...	1315	ENVIRONMENTAL	198	10.9	101	7.6	336	12.1	160	31.2	19.6	.48
JAN												
16...	1450	ENVIRONMENTAL	599	16.2	127	7.9	281	4.9	--	--	--	--
MAR												
12...	1300	ENVIRONMENTAL	271	12.4	110	7.5	244	10.4	--	--	--	--
MAY												
08...	1230	BLANK	--	--	--	--	--	--	0	.06	.008	<.09
08...	1300	ENVIRONMENTAL	164	9.5	103	7.9	277	18.6	140	27.2	16.8	.17
JUL												
16...	1430	ENVIRONMENTAL	95	8.9	110	7.8	292	24.4	--	--	--	--
SEP												
04...	1415	ENVIRONMENTAL	93	8.8	110	7.3	301	25.7	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
13...	3.8	130	132	161	0	6.4	<.2	26.6	<10	178	<.041	<.08	.051
JAN													
16...	--	112	113	138	0	--	--	--	--	--	<.041	E.04	.163
MAR													
12...	--	101	101	123	0	--	--	--	--	--	<.041	.08	.495
MAY													
08...	.5	--	--	--	--	<.1	<.2	.1	<10	24	<.041	.18	<.047
08...	3.8	114	116	142	0	4.0	<.2	18.6	<10	170	<.041	.25	.122
JUL													
16...	--	138	138	169	0	--	--	--	--	--	<.040	.08	.099
SEP													
04...	--	132	135	164	0	--	--	--	--	--	<.040	E.05	.082

07061600 BLACK RIVER BELOW ANNAPOLIS, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L aS Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
13...	<.006	<.060	<.018	<.060	<10	K1	K8	K5	<15	<28	--	<8.00	<.11
JAN													
16...	<.006	<.060	<.018	<.060	--	K1	K3	K7	--	--	--	--	--
MAR													
12...	<.006	<.060	<.018	<.060	--	K1	K2	K2	--	--	--	--	--
MAY													
08...	E.003	<.060	<.018	<.060	<10	--	--	--	2	7	<.2	<8.00	<.11
08...	E.003	<.060	<.018	<.060	<10	K1	K2	K2	8	14	E.1	<8.00	<.11
JUL													
16...	E.004	<.060	<.020	<.060	--	K10	26	K3	--	--	--	--	--
SEP													
04...	<.006	<.060	<.020	<.060	--	K2	K6	K2	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV								
13...	<4.7	<10	<.08	<1	<3.2	<.14	33	<31
JAN								
16...	--	--	--	--	--	--	--	--
MAR								
12...	--	--	--	--	--	--	--	--
MAY								
08...	<4.7	<10	<.08	<1	<3.2	<.01	<1	<1
08...	<4.7	<10	<.08	<1	E2.8	<.01	--	4
JUL								
16...	--	--	--	--	--	--	--	--
SEP								
04...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

07061900 LOGAN CREEK AT ELLINGTON, MO

LOCATION.--Lat 37°14'47", long 90°57'55", in SE $^1/_4$ NW $^1/_4$ NE $^1/_4$, sec.32, T.30 N., R.1 E., Reynolds County, Hydrologic Unit 11010007, on downstream end of center pier of bridge on State Route 21, 0.1 mi downstream from Dry Valley Creek, and about 10 mi upstream from Clearwater Lake.

DRAINAGE AREA.--139 mi^2.

PERIOD OF RECORD.--July 21, 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 639.51 ft above sea level.

REMARKS.--Records poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.82	4.2	2.5	7.4	16	6.0	4.3	4.5	4.0	2.3	.86
2	1.0	.77	4.1	2.4	6.9	14	6.2	4.5	6.1	3.3	2.3	.80
3	.93	.74	4.1	2.3	6.8	12	6.5	4.2	5.6	3.1	2.3	.78
4	.85	.73	3.8	2.3	6.8	11	6.4	4.1	6.5	2.9	2.0	.72
5	.81	.72	3.8	2.3	7.2	9.0	6.5	3.9	6.0	2.7	2.0	.67
6	.82	1.0	3.5	2.3	7.2	8.3	6.2	4.0	5.5	2.5	2.0	.63
7	.77	.93	3.3	2.4	6.7	7.6	6.3	3.9	5.0	2.4	1.5	.58
8	.75	.93	3.1	2.4	6.2	7.2	6.3	3.8	4.6	2.3	1.5	.77
9	.75	.96	3.3	2.3	13	6.9	5.8	3.8	4.3	2.2	1.2	1.9
10	.81	.91	3.2	2.3	9.8	7.0	5.9	3.8	4.1	2.2	1.2	1.3
11	.85	.80	3.4	2.4	8.0	6.8	6.1	3.6	3.8	2.1	1.2	1.3
12	.84	.87	3.1	2.3	7.4	6.6	5.9	3.3	3.7	2.5	1.3	1.0
13	.85	1.0	3.3	2.6	13	6.4	5.6	3.3	3.5	2.3	1.8	.89
14	.84	.95	3.1	3.8	16	6.2	5.5	3.2	3.5	2.0	2.0	.79
15	.83	.96	3.1	4.4	16	7.3	7.7	3.3	4.8	2.2	1.3	.85
16	1.4	.95	3.2	4.0	19	7.1	6.3	3.5	3.8	2.4	1.5	.83
17	1.7	.86	3.0	3.7	18	6.2	5.9	3.6	3.6	2.5	1.3	.70
18	1.7	.85	3.0	3.6	16	5.8	5.8	9.2	3.5	2.1	1.1	.62
19	.96	.93	3.0	3.5	15	5.6	6.0	9.2	3.4	2.2	.96	.57
20	.91	.89	3.1	3.6	14	5.4	5.8	6.0	3.6	2.2	.86	.56
21	.91	.82	3.0	3.6	15	5.4	6.4	6.7	4.8	2.1	.85	.59
22	.94	.80	3.0	3.6	23	5.4	5.2	5.8	3.9	2.0	.80	.48
23	.93	.75	2.8	3.5	19	5.7	5.9	5.9	3.5	1.9	.76	.54
24	.89	2.6	2.9	3.6	82	5.8	5.7	5.5	3.3	2.1	.75	.54
25	.85	9.0	2.8	3.6	229	5.6	4.9	5.1	3.1	2.1	.85	.52
26	.83	6.3	2.8	3.4	63	5.4	4.9	4.6	2.8	2.1	.98	.50
27	.82	4.9	2.7	3.4	33	5.5	4.8	4.5	2.8	2.2	.95	.51
28	.79	4.5	2.9	3.4	20	5.5	4.7	4.3	2.8	2.6	.90	.47
29	.77	4.2	2.8	8.8	---	5.5	4.7	4.2	2.7	2.4	.90	.47
30	.82	4.3	2.5	10	---	6.3	4.4	4.6	3.7	2.2	.93	.52
31	.82	---	2.6	8.2	---	6.2	---	5.2	---	2.1	1.0	---
MEAN	.93	1.86	3.18	3.63	25.2	7.25	5.81	4.67	4.09	2.38	1.33	.74
MAX	1.7	9.0	4.2	10	229	16	7.7	9.2	6.5	4.0	2.3	1.9
MIN	.75	.72	2.5	2.3	6.2	5.4	4.4	3.2	2.7	1.9	.75	.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)

MEAN	5.35	19.3	9.89	12.1	49.3	30.8	65.7	52.0	31.0	9.04	6.43	6.58
MAX	14.6	93.7	27.2	21.8	201	75.8	225	208	138	28.3	23.2	27.9
(WY)	1997	1997	1997	1999	1999	1998	1999	1996	1998	1998	1998	1996
MIN	.93	1.86	3.18	3.63	7.36	7.25	5.26	3.45	4.09	2.38	1.33	.74
(WY)	2001	2001	2001	2001	1996	2001	2000	2000	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1994 - 2001	
ANNUAL MEAN	4.64		4.94		24.5	
HIGHEST ANNUAL MEAN					43.1	1999
LOWEST ANNUAL MEAN					4.94	2001
HIGHEST DAILY MEAN	59	Feb 26	229	Feb 25	3070	Feb 7 1999
LOWEST DAILY MEAN	.72	Nov 5	.47	Sep 28,29	.47	Sep 28,29 2001
ANNUAL SEVEN-DAY MINIMUM	.77	Oct 30	.50	Sep 24	.50	Sep 24 2001
MAXIMUM PEAK FLOW	---		462	Feb 25	10300	Jun 20 1998
MAXIMUM PEAK STAGE	---		4.32	Feb 25	9.26	Jun 20 1998
INSTANTANEOUS LOW FLOW	---		.47	Sep 28,29	.47	Sep 28,29 2001
10 PERCENT EXCEEDS	7.9		7.2		30	
50 PERCENT EXCEEDS	3.3		3.2		7.2	
90 PERCENT EXCEEDS	.92		.80		2.7	

07062000 CLEARWATER LAKE NEAR PIEDMONT, MO

LOCATION.--Lat 37°08'00", long 90°46'31", NW $^1/_4$ sec.6, T.28 N., R.3 E., Wayne County, Hydrologic Unit 11010007, in intake tower at dam on Black River, 2.3 mi upstream from Brewer Bay, 4.5 mi west of Piedmont, and at mile 257.4.

DRAINAGE AREA.--898 mi^2.

PERIOD OF RECORD.--June 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by earthfill type dam. Storage began June 3, 1948; conservation pool level reached July 4, 1948. Capacity at crest of spillway 413,700 ac-ft at elevation 567.0 ft, of which 391,800 ac-ft is available for flood-control storage, and 21,920 ac-ft is permanent storage which under normal operating conditions will be maintained for purposes of conservation and recreation at elevation 494.0 ft. Lake used for flood control and recreational purposes. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records were provided by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 399,400 ac-ft, May 28, 1957, elevation, 565.59 ft; minimum, since initial filling to conservation pool level, 15,800 ac-ft, Jan. 20, 23, 1972, elevation, 490.00 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 41,200 ac-ft, Feb. 26, elevation, 503.87 ft; minimum, 21,800 ac-ft, April 26, elevation, 493.93 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
OBSERVATION AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	500.23	494.20	494.22	494.64	495.58	500.31	494.33	494.43	499.70	500.12	502.98	500.00
2	500.01	494.20	494.21	494.64	495.61	498.28	494.34	494.32	499.93	500.16	502.25	500.00
3	499.58	494.20	494.18	494.64	495.50	497.37	494.37	494.51	500.08	500.17	501.42	500.00
4	499.13	494.20	494.16	494.63	495.19	496.30	494.57	494.73	500.14	500.15	500.98	499.98
5	498.70	494.18	494.20	494.61	494.77	495.07	496.25	494.96	500.14	500.13	500.57	499.96
6	498.24	494.25	494.22	494.61	494.39	494.10	496.88	495.18	500.16	500.10	500.25	499.94
7	497.77	494.29	494.24	494.60	494.31	494.00	497.10	495.46	500.18	500.09	500.18	499.92
8	497.28	494.29	494.26	494.60	494.34	494.05	497.15	495.64	500.09	500.08	500.21	499.92
9	496.80	494.35	494.26	494.61	494.53	494.09	496.87	495.81	499.97	500.08	500.26	500.05
10	496.32	494.36	494.26	494.61	494.79	494.14	496.12	495.96	499.83	500.06	500.29	500.06
11	495.90	494.38	494.34	494.67	495.49	494.14	495.38	496.16	499.74	500.04	500.26	500.06
12	495.58	494.41	494.39	494.69	495.74	494.12	494.57	496.29	499.75	500.03	500.21	500.08
13	495.28	494.47	494.61	494.73	495.42	494.05	494.01	496.41	499.83	500.03	500.16	500.10
14	494.97	494.42	494.72	494.84	495.17	494.00	494.12	496.51	499.92	500.02	500.12	500.11
15	494.68	494.28	494.83	495.01	496.38	494.02	494.42	496.63	500.10	500.01	500.10	500.11
16	494.46	494.23	494.88	495.30	498.44	494.08	494.52	496.73	500.17	499.98	500.10	500.11
17	494.39	494.26	494.78	495.45	500.21	494.14	494.49	496.84	500.20	499.96	500.10	500.11
18	494.42	494.26	494.62	495.42	501.44	494.24	494.32	497.07	500.22	499.96	500.10	500.13
19	494.49	494.24	494.45	495.25	502.36	494.31	494.16	497.27	500.23	499.95	500.11	500.19
20	494.53	494.21	494.35	495.39	502.04	494.33	494.17	497.49	500.21	499.96	500.12	500.20
21	494.52	494.18	494.33	495.53	500.31	494.35	494.28	497.77	500.20	499.96	500.12	500.18
22	494.46	494.17	494.32	495.57	498.35	494.35	494.37	498.09	500.18	499.96	500.12	500.14
23	494.38	494.22	494.38	495.44	496.86	494.32	494.41	498.38	500.16	499.96	500.10	500.10
24	494.29	494.39	494.44	495.33	496.19	494.29	494.26	498.60	500.14	500.05	500.08	500.05
25	494.22	494.73	494.50	495.19	501.17	494.24	494.00	498.75	500.13	500.63	500.06	500.03
26	494.21	495.13	494.56	495.02	503.87	494.18	493.93	498.90	500.12	500.87	500.04	500.02
27	494.21	495.07	494.60	494.92	503.56	494.18	494.04	499.03	500.12	500.89	500.02	500.02
28	494.21	494.54	494.64	494.79	502.28	494.20	494.29	499.15	500.12	500.86	500.00	500.01
29	494.20	494.26	494.64	494.74	---	494.25	494.51	499.26	500.10	502.32	500.01	500.01
30	494.20	494.24	494.64	495.20	---	494.30	494.58	499.40	500.10	503.73	500.00	500.00
31	494.20	---	494.64	495.54	---	494.32	---	499.55	---	503.53	500.00	---
MEAN	495.80	494.35	494.45	494.97	497.65	494.71	494.83	496.94	500.07	500.45	500.37	500.05
MAX	500.23	495.13	494.88	495.57	503.87	500.31	497.15	499.55	500.23	503.73	502.98	500.20
MIN	494.20	494.17	494.16	494.60	494.31	494.00	493.93	494.32	499.70	499.95	500.00	499.92
(-)	22200	22300	23000	24500	37600	22500	22900	31800	33000	40400	32800	32800
(=)	-11000	+100	+700	+1500	+13100	-15100	+400	+8900	+1200	+7400	-7600	0

CAL YR 2000....+700
WTR YR 2001....-400

(-) Contents, in acre-feet, at the end of the month.
(=) Change in contents, in acre-feet.

07063000 BLACK RIVER AT POPLAR BLUFF, MO

LOCATION.--Lat 36°45'34", long 90°23'17", in SW $^1/_4$ NW $^1/_4$ sec.2, T.24 N., R.6 E., Butler County, Hydrologic Unit 11010007, on right bank at City Light and Water Plant in Poplar Bluff, 1,500 ft upstream from bridge on Business Route 60, 4.8 mi downstream from Indian Creek, and at mile 211.2.

DRAINAGE AREA.--1,245 mi^2.

PERIOD OF RECORD.--October 1936 to September 1937, October 1939 to current year. Gage-height records collected at site 1,800 ft downstream September 1923 to July 1935 and since July 1935 at site 1,500 ft downstream, are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 317.48 ft above sea level. Prior to Oct. 1, 1940, nonrecording gage at site 1,500 ft downstream at datum 2.00 ft higher; Oct. 1, 1940, to June 7, 1955, at site 1,500 ft downstream at present datum. Prior to July 12, 1985, at datum 0.10 ft lower.

REMARKS.--Records fair. Considerable regulation by Clearwater Lake (station 07062000), 46 mi upstream since June 3, 1948. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1904 reached a maximum discharge of 100,000 ft^3/s, and flood of Mar. 12, 1935, reached a stage of 21.1 ft, present datum (affected by levees constructed since 1904).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	342	394	757	457	723	3890	809	553	321	e318	1310	321
2	335	401	711	452	1100	4020	791	741	320	e318	1440	306
3	419	403	675	447	1170	3750	805	666	354	e318	1480	301
4	692	395	654	446	1230	2990	899	448	373	e324	1410	296
5	761	393	628	448	1230	2710	1000	394	423	e345	1050	289
6	806	416	570	448	1220	2500	1210	376	567	e346	964	290
7	784	450	549	455	1150	2130	1480	373	589	e339	853	288
8	783	469	536	461	925	1510	1450	369	607	e315	613	298
9	785	545	523	453	818	1280	1420	353	636	e302	479	504
10	785	507	531	436	843	1180	1540	341	619	e299	424	370
11	784	493	540	438	813	1120	1670	335	615	299	432	319
12	744	493	553	443	797	1090	1670	334	558	299	530	307
13	656	509	578	445	1030	1350	1650	328	e458	297	567	301
14	638	514	593	490	1500	1130	1330	320	e423	295	484	295
15	636	573	573	538	1930	1070	1060	315	e407	295	439	286
16	630	620	700	549	2090	1240	928	308	e403	294	381	279
17	645	576	805	604	1740	1050	882	305	e371	300	360	274
18	587	485	799	900	1230	952	1030	312	e358	336	344	272
19	475	485	795	1060	1000	911	1110	376	e359	372	335	281
20	444	482	788	1020	875	914	990	365	e389	320	324	273
21	444	473	746	765	1540	938	803	364	e413	312	318	282
22	486	463	e635	688	3280	927	743	357	e413	314	315	322
23	497	452	e561	731	3570	919	727	350	e414	309	310	341
24	495	432	e504	849	3290	906	799	345	e413	319	306	340
25	496	584	e476	859	4330	887	939	338	e412	353	304	322
26	479	725	e458	861	4690	872	925	331	e398	345	307	278
27	418	560	e455	834	3260	839	770	327	e367	1080	306	261
28	404	644	e451	769	3550	793	616	325	e358	739	299	256
29	397	1060	454	816	---	787	519	321	e345	620	295	254
30	402	983	463	968	---	813	486	320	e326	620	295	254
31	403	---	460	669	---	835	---	321	---	744	320	---
MEAN	569	533	597	639	1819	1494	1035	375	434	390	568	302
MAX	806	1060	805	1060	4690	4020	1670	741	636	1080	1480	504
MIN	335	393	451	436	723	787	486	305	320	294	295	254
IN.	.53	.48	.55	.59	1.52	1.38	.93	.35	.39	.36	.53	.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2001[a], BY WATER YEAR (WY)

MEAN	661	984	1517	1667	1751	2125	2194	1899	1277	854	685	642
MAX	1913	2962	5501	3890	4938	4485	4873	4125	3196	3153	3232	2071
(WY)	1983	1973	1983	1950	1949	1975	1973	1979	1957	1957	1957	1985
MIN	259	315	335	309	376	564	676	375	434	321	288	268
(WY)	1957	1954	1954	1956	1963	1981	2000	2001	2001	1954	1954	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1949 - 2001[a]	
ANNUAL MEAN	737		722		1353	
HIGHEST ANNUAL MEAN					2858	1985
LOWEST ANNUAL MEAN					564	1954
HIGHEST DAILY MEAN	4570	Jun 19	4690	Feb 26	41200	Dec 4 1982
LOWEST DAILY MEAN	245	Sep 21	254	Sep 29,30	186	Sep 25 1966
ANNUAL SEVEN-DAY MINIMUM	250	Sep 16	278	Sep 15	245	Sep 21 1966
MAXIMUM PEAK FLOW	---		5380	Feb 25,26	65600[b]	Dec 4 1982
MAXIMUM PEAK STAGE	---		13.24	Feb 25,26	21.68[c]	Dec 4 1982
INSTANTANEOUS LOW FLOW	---		249	Sep 28,29	180	Sep 25 1966
ANNUAL RUNOFF (INCHES)	8.06		7.88		14.76	
10 PERCENT EXCEEDS	1290		1230		3260	
50 PERCENT EXCEEDS	560		504		827	
90 PERCENT EXCEEDS	308		306		382	

e Estimated
[a] Post-regulation period.
[b] Determined by indirect measurement.
[c] Former datum.

370857091265901 JACKS FORK ABOVE ALLEY SPRING, MO
(Jacks Fork water-quality monitoring network)

LOCATION.--Lat 37°08'57", long 91°26'59", in NE $^1/_4$ SW $^1/_4$ SW $^1/_4$ sec.25, T.29 N., R.5 W., Shannon County, Hydrologic Unit 11010008, at Alley Spring Campground, 0.5 mi upstream of Highway 106 bridge, 1.0 mi upstream from Alley Spring Branch, and 5.5 mi west of Eminence.

DRAINAGE AREA.--302 mi^2.

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)
OCT												
04...	1400	ENVIRONMENTAL	32	5.8	68.4	8.2	338	23.4	<.020	<.10	.061	<.010
NOV												
09...	1000	ENVIRONMENTAL	121	9.6	88.8	8.3	345	11.7	<.041	E.06	.117	<.006
DEC												
20...	1515	ENVIRONMENTAL	108	15.6	110	8.4	311	1.0	<.041	<.08	.267	<.006
JAN												
24...	1700	ENVIRONMENTAL	87	13.5	106	8.2	320	5.3	<.041	<.08	.373	<.006
FEB												
22...	1400	ENVIRONMENTAL	328	13.0	103	8.3	257	5.9	<.041	E.05	.485	<.006
MAR												
21...	1515	ENVIRONMENTAL	127	11.8	112	8.4	311	13.2	<.041	E.06	.279	<.006
APR												
25...	1600	ENVIRONMENTAL	107	9.4	102	8.3	332	18.6	<.041	.09	.108	<.006
MAY												
25...	1750	ENVIRONMENTAL	102	8.8	96.4	8.4	304	18.4	<.040	E.07	.098	<.006
26...	0940	ENVIRONMENTAL	94	8.8	92.8	8.2	300	16.6	<.040	E.07	.078	<.006
26...	1455	ENVIRONMENTAL	94	9.7	111	8.3	308	20.5	<.040	.09	.080	<.006
27...	0850	ENVIRONMENTAL	85	9.5	102	7.9	317	17.3	<.040	E.07	.081	<.006
27...	1230	ENVIRONMENTAL	85	9.1	104	8.2	321	20.3	<.040	E.04	.095	<.006
JUN												
07...	1630	ENVIRONMENTAL	94	8.6	110	8.2	340	26.7	<.040	.08	.072	<.006
AUG												
01...	0815	ENVIRONMENTAL	45	5.4	68.4	8.0	348	26.5	<.040	E.06	.097	E.003
08...	0850	ENVIRONMENTAL	30	5.9	74.8	7.6	341	26.4	E.028	E.04	.077	<.006
08...	1410	ENVIRONMENTAL	33	7.5	98.6	7.6	333	28.2	<.040	.10	.078	<.006
09...	0900	BLANK	--	--	--	--	--	--	.048	<.08	E.027	<.006
09...	0910	ENVIRONMENTAL	33	7.0	89.5	7.5	355	26.5	E.040	E.07	.072	<.006
09...	1230	ENVIRONMENTAL	33	7.4	99.0	7.8	351	29.1	E.025	.09	.060	<.006
SEP												
18...	1500	ENVIRONMENTAL	30	8.4	99.6	7.8	351	22.3	<.040	E.07	.056	<.006

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	ENTERO-COCCI, MEI MF, WATER (col./ 100 mL) (90909)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)
OCT						
04...	<.010	<.008	K1	K18	K16	K15
NOV						
09...	<.018	<.004	55	K240	64	K140
DEC						
20...	<.018	<.004	K1	K8	K1	K5
JAN						
24...	<.018	<.004	K2	K7	K1	K5
FEB						
22...	<.018	E.002	K1	25	K6	K14
MAR						
21...	<.018	<.004	<1	K3	<1	K3
APR						
25...	<.018	E.003	<1	K9	K3	K11
MAY						
25...	<.020	E.002	K3	20	K1	K18
26...	<.020	E.002	K10	27	K14	21
26...	<.020	E.003	K5	K15	43	52
27...	<.020	E.002	K10	42	K13	36
27...	<.020	.005	K4	K10	K3	32
JUN						
07...	<.020	E.002	K3	K18	K6	20
AUG						
01...	<.020	E.002	34	K130	27	88
08...	<.020	<.004	20	99	22	70
08...	<.020	<.004	24	K210	K200	K700
09...	<.020	<.004	--	--	--	--
09...	<.020	E.002	30	K110	K67	88
09...	<.020	<.004	K19	57	K18	44
SEP						
18...	<.020	<.004	22	54	26	30

E--Laboratory estimated value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
<--Numeric result is less than the value shown.

07065495 JACKS FORK AT ALLEY SPRING, MO

LOCATION.--Lat 37°08'53", long 91°26'35", in SW $^1/_4$ SW $^1/_4$ SE $^1/_4$ sec.25, T.29 N., R.5 W., Shannon County, Hydrologic Unit 11010008, on downstream end of pier on foot bridge, just downstream of Highway 106 bridge, 0.5 mi upstream from Alley Spring Branch, and 5.5 mi west of Eminence.

DRAINAGE AREA.--298 mi^2.

PERIOD OF RECORD.--March 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 656.74 ft above sea level. Prior to Oct. 1, 1999, datum was 4.0 ft lower.

REMARKS.--Records good. U.S.G.S satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	41	84	55	e440	427	97	80	121	69	44	27
2	33	42	75	52	272	364	95	77	137	67	40	26
3	33	42	68	56	215	317	99	76	124	64	37	27
4	31	40	63	48	177	277	111	71	122	57	35	25
5	32	39	58	44	150	236	112	70	121	53	33	24
6	35	68	54	43	128	202	110	73	113	49	31	24
7	33	112	51	44	114	180	110	82	98	46	31	23
8	33	140	49	46	102	165	108	82	87	43	31	39
9	32	122	47	53	111	151	105	75	80	41	32	80
10	31	105	49	65	250	138	102	69	80	40	35	61
11	31	90	54	69	324	127	104	67	73	44	36	54
12	32	80	71	71	267	121	108	64	67	49	39	44
13	32	78	180	76	239	115	106	60	61	e50	38	37
14	32	75	152	129	335	107	100	58	57	e48	40	32
15	32	74	125	381	559	109	112	56	78	e43	38	30
16	56	73	110	344	886	120	169	55	88	40	34	29
17	86	68	103	266	622	175	197	54	92	39	31	29
18	88	62	102	209	441	163	166	72	79	38	30	30
19	71	57	100	172	357	145	148	149	68	39	29	30
20	58	53	99	145	306	133	140	140	61	41	28	30
21	51	49	85	122	273	127	133	283	63	41	27	29
22	48	46	75	107	454	120	122	213	63	37	26	30
23	45	45	71	97	714	116	117	154	92	34	25	31
24	42	50	65	89	1090	111	111	127	85	53	24	31
25	40	113	63	82	4470	104	107	108	73	61	25	30
26	40	194	57	77	1360	98	100	93	63	106	25	30
27	39	199	55	73	773	93	94	84	60	91	33	29
28	39	150	54	68	546	90	91	79	62	72	27	29
29	41	117	53	93	---	89	87	71	62	61	25	28
30	43	98	50	837	---	97	82	74	69	54	24	28
31	42	---	52	610	---	97	---	82	---	48	24	---
MEAN	42.5	84.1	76.6	149	571	159	115	93.5	83.3	52.2	31.5	33.2
MAX	88	199	180	837	4470	427	197	283	137	106	44	80
MIN	31	39	47	43	102	89	82	54	57	34	24	23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2001, BY WATER YEAR (WY)

MEAN	125	348	188	214	442	423	476	388	180	104	84.1	193
MAX	298	1426	370	331	976	751	1121	755	381	182	145	1007
(WY)	1999	1994	1997	1995	1999	1998	1994	1994	1995	1998	1998	1993
MIN	42.5	49.4	76.6	74.5	81.6	159	86.5	93.5	83.3	52.2	31.5	31.2
(WY)	2001	2000	2001	2000	1996	2001	2000	2001	2001	2001	2001	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1993 - 2001	
ANNUAL MEAN	96.3		121		255	
HIGHEST ANNUAL MEAN					469	1994
LOWEST ANNUAL MEAN					95.9	2000
HIGHEST DAILY MEAN	1660	Feb 18	4470	Feb 25	23300	Nov 14 1993
LOWEST DAILY MEAN	22	Sep 22	23	Sep 7	22	Sep 22 2000
ANNUAL SEVEN-DAY MINIMUM	23	Sep 17	25	Sep 1	23	Sep 17 2000
MAXIMUM PEAK FLOW	---		7960	Feb 25	48700	Nov 14 1993
MAXIMUM PEAK STAGE	---		9.78	Feb 25	21.97	Nov 14 1993
INSTANTANEOUS LOW FLOW	---		22	Sep 7,8	22	Sep 22 2000
10 PERCENT EXCEEDS	182		200		480	
50 PERCENT EXCEEDS	58		71		124	
90 PERCENT EXCEEDS	33		31		52	

e Estimated

370901091262001 ALLEY SPRING BELOW ALLEY, MO
(Jacks Fork water-quality monitoring network)

LOCATION.--Lat 37°09'01", long 91°26'20", in NE $^1/_4$ SW $^1/_4$ SE $^1/_4$ sec.25, T.29 N., R.5 W., Shannon County, Hydrologic Unit 11010008, at Alley Spring Campground, and 5.0 mi west of Eminence.

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)
OCT												
04...	1310	ENVIRONMENTAL	66	7.2	71.5	7.7	316	14.9	<.020	<.10	.539	<.010
NOV												
09...	0915	ENVIRONMENTAL	79	9.0	87.2	7.8	321	13.8	<.041	<.08	.532	<.006
DEC												
20...	1445	ENVIRONMENTAL	73	10.1	97.3	7.8	311	13.6	<.041	<.08	.558	<.006
JAN												
24...	1600	ENVIRONMENTAL	79	9.6	92.2	7.6	301	13.8	<.041	<.08	.560	<.006
FEB												
22...	1315	ENVIRONMENTAL	208	9.6	91.4	7.5	228	13.5	<.041	E.07	.779	<.006
MAR												
21...	1430	ENVIRONMENTAL	123	10.7	103	7.8	217	14.0	<.041	E.06	.889	<.006
APR												
25...	1500	ENVIRONMENTAL	88	9.9	98.6	7.8	275	14.5	<.041	<.08	.629	<.006
MAY												
25...	1700	ENVIRONMENTAL	75	9.2	92.2	7.6	298	14.2	--	E.05	.600	<.006
26...	1100	ENVIRONMENTAL	80	9.6	96.6	7.8	287	14.4	E.026	<.08	.600	<.006
26...	1530	ENVIRONMENTAL	80	10.3	104	7.7	298	14.5	<.040	<.08	.625	<.006
27...	0940	ENVIRONMENTAL	80	10.3	103	7.8	299	14.0	<.040	E.04	.611	<.006
27...	1310	ENVIRONMENTAL	80	10.3	105	7.7	302	14.8	<.040	<.08	.586	<.006
JUN												
07...	1515	BLANK	--	--	--	--	--	--	<.040	<.08	<.050	<.006
07...	1530	ENVIRONMENTAL	74	10.4	106	7.5	308	14.9	<.040	<.08	.568	<.006
AUG												
01...	0840	ENVIRONMENTAL	64	9.2	91.8	7.7	314	14.5	<.040	<.08	.535	<.006
08...	1000	ENVIRONMENTAL	69	10.3	104	7.5	311	14.8	E.040	<.08	.550	<.006
08...	1450	ENVIRONMENTAL	69	11.3	115	7.5	312	14.9	E.030	<.08	.555	<.006
09...	0950	ENVIRONMENTAL	69	11.2	114	7.3	311	14.9	E.030	E.06	.540	<.006
09...	1310	ENVIRONMENTAL	69	10.6	108	7.5	313	15.0	E.033	<.08	.546	<.006
SEP												
18...	1430	ENVIRONMENTAL	68	9.9	100	7.6	325	14.6	<.040	<.08	.505	<.006

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	ENTERO-COCCI, MEI MF, WATER (col./ 100 mL) (90909)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)
OCT						
04...	.010	.009	K1	67	K13	27
NOV						
09...	E.011	.009	K17	K120	K11	37
DEC						
20...	<.018	.009	K10	41	K11	24
JAN						
24...	<.018	.010	K3	K16	K4	K16
FEB						
22...	E.009	.012	K9	67	K7	29
MAR						
21...	<.018	.011	<1	K4	K5	K5
APR						
25...	<.018	.011	<1	K7	K7	K9
MAY						
25...	<.020	.009	58	K110	K71	88
26...	<.020	.010	37	52	41	52
26...	E.009	.008	42	47	K5	K180
27...	<.020	.010	37	72	24	46
27...	<.020	.010	22	46	K16	30
JUN						
07...	<.020	<.004	--	--	--	--
07...	<.020	.010	49	49	56	47
AUG						
01...	<.020	.009	26	49	35	48
08...	<.020	.008	K15	83	40	80
08...	<.020	.009	59	K220	K79	K340
09...	<.020	.010	20	89	35	84
09...	<.020	.006	K14	61	24	52
SEP						
18...	<.020	.009	K11	40	K11	40

E--Laboratory estimated value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
<--Numeric result is less than the value shown.

370911091223201 MAHANS CREEK ABOVE EMINENCE, MO
(Jacks Fork water-quality monitoring network)

LOCATION.--Lat 37°09'11", long 91°22'32", in SW $^1/_4$ NE $^1/_4$ SW $^1/_4$ sec.27, T.29 N., R.4 W., Shannon County, Hydrologic Unit 11010008, 0.25 north of State Highway 106 on county road and 1.0 mi west of Eminence.

DRAINAGE AREA.--54.0 mi^2.

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)
OCT												
04...	1230	ENVIRONMENTAL	3.4	10.2	114	8.0	454	20.8	<.020	E.07	.200	<.010
NOV												
09...	0800	ENVIRONMENTAL	11	8.8	80.8	8.1	426	11.4	<.041	E.07	.190	<.006
09...	0801	REPLICATE	--	--	--	--	--	--	<.041	E.08	.185	<.006
DEC												
20...	1330	ENVIRONMENTAL	9.2	14.2	106	8.3	438	3.2	<.041	<.08	.317	<.006
20...	1331	REPLICATE	--	--	--	--	--	--	<.041	<.08	.318	<.006
JAN												
24...	1500	ENVIRONMENTAL	9.6	12.9	106	8.1	423	7.3	<.041	E.04	.257	<.006
24...	1501	REPLICATE	--	--	--	--	--	--	<.041	<.08	.253	<.006
FEB												
22...	1230	ENVIRONMENTAL	66	11.9	96.0	8.3	345	6.4	<.041	.14	.404	<.006
MAR												
21...	1315	ENVIRONMENTAL	18	11.0	104	8.2	301	13.1	<.041	E.08	.606	<.006
21...	1316	REPLICATE	--	--	--	--	--	--	<.041	E.06	.608	<.006
APR												
25...	1400	ENVIRONMENTAL	13	9.4	98.4	8.2	412	16.8	<.041	E.06	.384	E.003
25...	1401	REPLICATE	--	--	--	--	--	--	<.041	.10	.386	<.006
MAY												
25...	1610	ENVIRONMENTAL	7.7	8.0	83.7	8.0	412	16.2	<.040	E.07	.233	<.006
26...	1200	ENVIRONMENTAL	13	9.5	101	8.2	402	16.5	<.040	.08	.246	<.006
26...	1600	ENVIRONMENTAL	13	9.6	109	8.2	409	19.9	--	.13	.239	<.006
27...	1040	ENVIRONMENTAL	13	10.6	111	8.1	411	16.1	<.040	E.06	.266	<.006
27...	1110	BLANK	--	--	--	--	--	--	<.040	<.08	<.050	<.006
27...	1350	ENVIRONMENTAL	13	9.4	106	8.2	416	19.7	E.023	.22	.242	<.006
JUN												
07...	1445	ENVIRONMENTAL	12	8.9	107	8.0	417	23.1	<.040	.09	.243	<.006
AUG												
01...	0915	ENVIRONMENTAL	7.1	6.5	76.0	7.9	459	22.2	<.040	.10	.268	E.003
01...	0916	REPLICATE	--	--	--	--	--	--	<.040	.10	.270	<.006
08...	1050	ENVIRONMENTAL	4.5	7.1	87.2	7.7	436	24.2	E.030	.12	.260	E.003
08...	1530	ENVIRONMENTAL	4.5	7.7	95.8	7.8	458	25.2	E.031	.12	.241	<.006
09...	1020	ENVIRONMENTAL	4.5	8.3	99.8	7.7	465	23.4	E.029	.11	.241	<.006
09...	1330	ENVIRONMENTAL	4.5	7.1	90.5	7.8	469	25.4	E.027	.18	.248	<.006
SEP												
18...	1345	ENVIRONMENTAL	4.7	7.8	88.6	7.7	464	20.1	<.040	E.07	.204	E.004
18...	1346	REPLICATE	--	--	--	--	--	--	<.040	E.07	.203	E.004

370911091223201 MAHANS CREEK ABOVE EMINENCE, MO--Continued
(Jacks Fork water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	ENTERO-COCCI, MEI MF, WATER (col./ 100 mL) (90909)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)
OCT						
04...	<.010	E.005	K10	220	96	130
NOV						
09...	<.018	.004	280	K1300	310	410
09...	<.018	.004	--	--	--	--
DEC						
20...	<.018	E.002	K2	62	K20	K30
20...	<.018	<.004	--	--	--	--
JAN						
24...	<.018	E.003	K2	K12	K4	K5
24...	<.018	E.002	--	--	--	--
FEB						
22...	<.018	.017	60	320	240	180
MAR						
21...	<.018	E.002	<1	K17	52	K6
21...	<.018	E.003	--	--	--	--
APR						
25...	<.018	.005	<1	46	62	K37
25...	<.018	.005	--	--	--	--
MAY						
25...	<.020	.004	76	180	120	150
26...	<.020	.004	98	130	100	140
26...	<.020	.007	70	110	52	100
27...	<.020	.006	160	190	K200	140
27...	<.020	<.004	--	--	--	--
27...	<.020	.006	46	120	80	84
JUN						
07...	<.020	.006	K3600	96	K9800	96
AUG						
01...	<.020	.006	290	660	380	390
01...	<.020	.007	--	--	--	--
08...	<.020	.005	160	390	220	200
08...	<.020	.009	760	K1800	K1100	K1500
09...	<.020	.007	160	450	230	300
09...	E.015	.008	110	270	210	120
SEP						
18...	<.020	.005	340	420	250	330
18...	<.020	.004	--	--	--	--

E--Laboratory estimated value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
<--Numeric result is less than the value shown.

07066000 JACKS FORK AT EMINENCE, MO

LOCATION.--Lat 37°09'18", long 91°21'31", in SW $^1/_4$ NW $^1/_4$ sec.26, T.29 N., R.4 W., Shannon County, Hydrologic Unit 11010008, on right downstream bridge abutment on State Highway 19, at Eminence, 1.5 mi downstream from Mahans Creek, and 8.0 mi upstream from mouth.

DRAINAGE AREA.--398 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only for October 1921, published in WSP 1311.

REVISED RECORDS.--WSP 787: 1928(M), 1934. WSP 877: 1938. WSP 927: Drainage area. WSP 1281: 1929. WDR MO-85-1(M).

GAGE.--Water-stage recorder. Datum of gage is 615.87 ft above sea level. Prior to Oct. 1, 1995, datum of gage 2 ft higher. Prior to Jan. 27, 1934, nonrecording gage at site 1,350 ft upstream at datum 2.11 ft higher; Jan. 27, 1934, to Jan. 10, 1935, nonrecording gage at site 75 ft downstream at datum 0.04 ft lower; Jan. 11, 1935, to July 9, 1964, nonrecording gage at site 50 ft downstream at present datum.

REMARKS.--Water-discharge records good. National Weather Service gage-height and U.S.G.S. satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of 1895 and March 1904 reached a stage of about 27 ft, present site and datum, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	125	182	139	570	813	206	182	212	169	133	107
2	116	126	171	128	434	685	207	180	241	159	128	104
3	115	125	163	133	358	595	212	176	229	155	125	105
4	114	123	158	137	310	523	220	173	227	148	122	104
5	114	124	153	134	275	461	222	173	221	143	118	102
6	117	165	149	135	250	414	221	177	211	137	115	102
7	114	198	147	137	232	381	221	185	197	135	113	102
8	115	220	143	142	218	360	218	182	184	132	114	154
9	114	213	142	146	240	343	213	174	176	130	114	256
10	113	194	142	155	355	324	210	168	173	129	118	165
11	113	179	156	162	451	307	213	165	168	130	122	146
12	113	169	180	164	384	294	218	161	161	136	124	133
13	114	167	261	174	355	281	212	158	155	137	120	124
14	114	163	243	253	481	272	206	154	152	133	119	117
15	115	160	220	481	783	270	241	153	174	129	119	115
16	142	159	210	463	1170	276	291	151	179	125	115	112
17	168	155	205	373	915	303	319	150	183	124	111	112
18	168	150	201	315	684	299	286	204	171	122	110	112
19	152	146	194	278	563	280	268	267	160	136	108	113
20	141	142	180	249	487	270	260	259	152	128	107	111
21	134	137	182	226	437	260	249	415	155	125	106	110
22	129	135	163	210	662	251	236	338	154	120	105	111
23	127	134	165	199	1040	243	230	271	169	119	104	111
24	124	143	159	189	1500	235	222	239	171	272	103	112
25	123	264	153	181	5270	226	213	216	160	173	104	110
26	122	305	151	176	2230	218	205	199	151	187	105	109
27	122	302	149	170	1380	214	200	187	151	249	109	109
28	123	252	148	166	1020	211	195	180	154	208	107	107
29	124	218	147	209	---	209	191	172	154	163	104	107
30	126	195	144	951	---	215	185	174	163	149	103	106
31	125	---	136	859	---	212	---	196	---	139	103	---
MEAN	125	176	171	253	823	330	226	199	177	150	113	120
MAX	168	305	261	951	5270	813	319	415	241	272	133	256
MIN	113	123	136	128	218	209	185	150	151	119	103	102
IN.	.36	.49	.50	.73	2.15	.96	.63	.58	.50	.43	.33	.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2001, BY WATER YEAR (WY)

MEAN	228	415	449	473	563	713	839	728	461	257	207	208
MAX	1092	2057	2462	2065	1906	1944	2920	2168	2745	1682	984	1439
(WY)	1985	1994	1983	1949	1985	1945	1927	1950	1928	1951	1927	1993
MIN	76.5	98.1	96.9	89.8	120	139	200	129	109	84.8	82.6	73.1
(WY)	1957	1955	1956	1956	1934	1956	2000	1936	1936	1934	1954	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1922 - 2001	
ANNUAL MEAN	206		235		460	
HIGHEST ANNUAL MEAN					1072	1985
LOWEST ANNUAL MEAN					154	1954
HIGHEST DAILY MEAN	2000	Feb 18	5270	Feb 25	31800	Nov 15 1993
LOWEST DAILY MEAN	106	Sep 20	102	Sep 5-7	67	Sep 16 1956
ANNUAL SEVEN-DAY MINIMUM	108	Sep 17	104	Sep 1	70	Sep 16 1956
MAXIMUM PEAK FLOW	---		7810	Feb 25	58500	Nov 15 1993
MAXIMUM PEAK STAGE	---		9.82	Feb 25	17.82	Nov 15 1993
INSTANTANEOUS LOW FLOW	---		100	Sep 5-8	64	Aug 28 1936
ANNUAL RUNOFF (INCHES)	7.06		8.00		15.71	
10 PERCENT EXCEEDS	305		348		889	
50 PERCENT EXCEEDS	168		166		245	
90 PERCENT EXCEEDS	118		113		124	

07066000 JACKS FORK AT EMINENCE, MO--Continued
(Jacks Fork water-quality monitoring network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)
OCT												
03...	1500	ENVIRONMENTAL	114	10.8	115	8.1	331	18.7	<.020	<.10	.283	<.010
NOV												
08...	1300	ENVIRONMENTAL	218	9.9	94.3	8.4	338	13.0	<.041	<.08	.210	<.006
DEC												
20...	1300	ENVIRONMENTAL	160	15.1	116	8.4	337	4.2	<.041	<.08	.347	<.006
JAN												
23...	1545	ENVIRONMENTAL	197	15.8	133	8.7	315	7.9	<.041	<.08	.342	<.006
FEB												
21...	1500	ENVIRONMENTAL	410	11.9	103	8.2	265	9.1	<.041	E.06	.569	<.006
MAR												
21...	1015	ENVIRONMENTAL	242	11.9	106	8.2	279	10.5	<.041	E.05	.541	<.006
APR												
24...	1545	ENVIRONMENTAL	218	10.8	115	8.4	312	18.0	<.041	<.08	.283	E.003
MAY												
25...	1315	ENVIRONMENTAL	215	10.5	109	8.1	317	16.1	<.040	E.08	.250	<.006
26...	0910	ENVIRONMENTAL	202	10.3	104	7.8	320	14.8	<.040	E.08	.264	<.006
26...	1425	ENVIRONMENTAL	202	11.4	125	8.2	319	18.5	<.040	E.07	.247	<.006
27...	0930	ENVIRONMENTAL	190	9.2	94.8	8.0	314	15.5	<.040	E.05	.274	<.006
27...	1430	ENVIRONMENTAL	186	10.1	113	8.2	313	19.6	<.040	E.07	.156	<.006
JUN												
06...	1545	ENVIRONMENTAL	211	10.3	122	8.1	337	22.4	<.040	E.06	.225	E.003
JUL												
31...	1545	ENVIRONMENTAL	136	9.2	112	8.3	340	24.5	<.040	.09	.244	<.006
AUG												
08...	1215	ENVIRONMENTAL	112	8.2	93.9	8.0	342	21.1	E.026	E.05	.287	<.006
08...	1600	ENVIRONMENTAL	112	9.5	113	8.1	335	22.8	E.030	E.05	.268	<.006
09...	1130	ENVIRONMENTAL	116	8.4	97.1	7.8	344	20.9	.041	E.05	.323	<.006
09...	1530	ENVIRONMENTAL	116	9.2	110	8.0	339	22.8	E.031	.09	.251	<.006
SEP												
18...	1300	ENVIRONMENTAL	112	8.9	95.9	8.0	348	17.8	<.040	<.08	.274	E.004

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	ENTERO-COCCI, MEI MF, WATER (col./ 100 mL) (90909)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)
OCT						
03...	<.010	<.008	K3	K8	K2	K4
NOV						
08...	<.018	<.004	86	K200	96	120
DEC						
20...	<.018	E.002	K4	K16	K5	K7
JAN						
23...	<.018	<.004	<2	K9	K3	K3
FEB						
21...	<.018	.005	<1	22	K7	K17
MAR						
21...	<.018	.004	<1	K8	K7	K8
APR						
24...	<.018	.004	K1	K2	K6	K7
MAY						
25...	<.020	.006	29	41	26	36
26...	<.020	E.003	47	90	35	--
26...	<.020	.006	K5	K15	K13	--
27...	<.020	E.003	48	100	44	23
27...	<.020	E.003	K6	23	K9	20
JUN						
06...	<.020	.007	K5	K26	K7	48
JUL						
31...	<.020	.005	K14	39	43	22
AUG						
08...	<.020	.005	K9	K29	K15	K31
08...	<.020	.004	46	120	120	100
09...	<.020	.008	K7	K34	K19	40
09...	<.020	.005	K12	70	K29	K43
SEP						
18...	<.020	E.003	31	55	33	52

E--Laboratory estimated value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
<--Numeric result is less than the value shown.

370905091204001 JACKS FORK ABOVE 2ND UNNAMED HOLLOW (SOUTH) BELOW EMINENCE, MO
(Jacks Fork water-quality monitoring network)

LOCATION.--Lat 37°09'05", long 91°20'40", in SW $^1/_4$ NW $^1/_4$ SW $^1/_4$ sec.25, T.29 N., R.4 W., Shannon County, Hydrologic Unit 11010008, at Jacks Fork Campground and 0.9 mi downstream of Eminence.

DRAINAGE AREA.--406 mi^2.

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	OXYGEN, DISSOLVED (mg/L) (00300)	OXYGEN, DISSOLVED (percent saturation) (00301)	pH WATER WHOLE FIELD (standard units) (00400)	SPECIFIC CONDUCTANCE (µS/cm) (00095)	TEMPERATURE WATER (Deg C) (00010)	NITROGEN, AMMONIA DISSOLVED (mg/L as N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITROGEN, NO_2+NO_3 DISSOLVED (mg/L as N) (00631)	NITROGEN, NITRITE DISSOLVED (mg/L as N) (00613)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) (00671)
OCT												
03...	1445	ENVIRONMENTAL	11.7	127	8.1	333	19.6	<.020	<.10	.318	<.010	<.010
NOV												
08...	1230	ENVIRONMENTAL	9.8	93.5	8.3	338	13.1	<.041	E.04	.228	<.006	<.018
DEC												
12...	1600	ENVIRONMENTAL	14.0	113	8.5	338	6.7	<.041	<.08	.340	<.006	<.018
JAN												
24...	1430	ENVIRONMENTAL	15.2	128	8.2	317	8.2	<.041	<.08	.349	<.006	<.018
FEB												
21...	1430	ENVIRONMENTAL	11.8	102	7.8	268	9.1	<.041	.09	.578	<.006	<.018
MAR												
21...	0940	ENVIRONMENTAL	11.3	100	8.2	281	10.3	<.041	E.07	.562	<.006	<.018
APR												
24...	1500	ENVIRONMENTAL	10.9	115	8.4	313	17.6	<.041	<.08	.281	<.006	<.018
MAY												
25...	1240	ENVIRONMENTAL	10.6	110	8.0	318	15.8	<.040	E.06	.250	<.006	<.020
26...	1405	ENVIRONMENTAL	10.3	112	7.7	312	18.2	<.040	E.07	.260	<.006	<.020
26...	1815	ENVIRONMENTAL	10.3	116	8.2	312	19.7	--	E.07	.262	<.006	<.020
27...	1245	ENVIRONMENTAL	10.3	112	7.8	316	18.2	<.040	E.06	.271	<.006	<.020
27...	1645	ENVIRONMENTAL	10.5	121	8.4	317	20.9	<.040	E.06	.263	<.006	<.020
JUN												
07...	1215	ENVIRONMENTAL	8.8	102	8.0	339	21.4	<.040	E.07	.245	E.003	<.020
JUL												
31...	1445	ENVIRONMENTAL	8.8	108	8.3	345	24.6	<.040	.13	.269	.007	<.020
AUG												
08...	1300	ENVIRONMENTAL	8.6	103	8.0	342	22.8	E.034	E.07	.315	<.006	<.020
08...	1715	ENVIRONMENTAL	8.5	105	7.9	338	23.8	E.036	.12	.293	<.006	<.020
09...	1130	ENVIRONMENTAL	8.4	98.7	8.1	343	22.2	<.040	E.07	.295	<.006	<.020
09...	1555	BLANK	--	--	--	--	--	E.031	<.08	E.026	<.006	<.020
09...	1600	ENVIRONMENTAL	8.5	101	8.1	341	22.6	E.025	E.06	.298	<.006	<.020
SEP												
18...	1215	ENVIRONMENTAL	8.2	88.9	8.0	350	18.1	<.040	E.05	.291	E.003	<.020

DATE	PHOSPHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	ENTEROCOCCI, MEI MF, WATER (col./ 100 mL) (90909)	COLIFORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)
OCT					
03...	.009	<2	70	K10	42
NOV					
08...	E.003	120	K210	88	140
DEC					
12...	.004	K3	25	K6	K11
JAN					
24...	<.004	K2	K2	K2	K3
FEB					
21...	E.003	K6	38	25	23
MAR					
21...	.006	K1	K18	K16	K11
APR					
24...	.005	K1	K10	K17	K6
MAY					
25...	.004	42	36	37	25
26...	.009	25	30	34	20
26...	.008	57	60	K74	47
27...	.006	65	27	57	62
27...	.008	80	43	46	35
JUN					
07...	.008	48	K210	58	74
JUL					
31...	.012	38	48	100	31
AUG					
08...	.008	K9	K43	K66	K20
08...	.013	K54	200	K80	92
09...	E.004	K23	K71	96	K46
09...	<.004	--	--	--	--
09...	.010	K86	K63	170	K83
SEP					
18...	.007	43	59	60	71

E--Laboratory estimated value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
<--Numeric result is less than the value shown.

371014091201301 JACKS FORK ABOVE LICK LOG HOLLOW BELOW EMINENCE, MO
(Jacks Fork water-quality monitoring network)

LOCATION.--Lat 37°10'14", long 91°20'13", in SE $^1/_4$ SE $^1/_4$ NW $^1/_4$ sec.24, T.29 N., R.4 W., Shannon County, Hydrologic Unit 11010008, 2.4 mi downstream from Eminence.

DRAINAGE AREA.--409 mi^2.

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)
OCT												
04...	1040	ENVIRONMENTAL	111	7.4	79.2	8.0	337	18.6	<.020	E.08	.295	<.010
NOV												
08...	1645	ENVIRONMENTAL	227	10.2	96.9	8.5	336	12.9	<.041	E.06	.220	<.006
DEC												
20...	1200	ENVIRONMENTAL	--	14.9	112	8.4	340	3.3	<.041	<.08	.353	<.006
JAN												
23...	1400	ENVIRONMENTAL	204	14.6	120	8.6	320	7.0	<.041	<.08	.367	<.006
FEB												
22...	1100	ENVIRONMENTAL	--	11.7	97.0	8.2	270	7.5	<.041	.10	.557	<.006
MAR												
21...	0815	BLANK	--	--	--	--	--	--	<.041	<.08	<.047	<.006
21...	0830	ENVIRONMENTAL	272	10.7	93.9	8.2	283	9.8	<.041	E.07	.567	<.006
APR												
24...	1400	BLANK	--	--	--	--	--	--	<.041	<.08	<.047	<.006
24...	1415	ENVIRONMENTAL	226	10.8	113	8.3	316	16.9	<.041	E.06	.302	<.006
MAY												
25...	1010	ENVIRONMENTAL	220	10.0	102	8.2	320	15.0	<.040	E.04	.284	<.006
25...	1020	BLANK	--	--	--	--	--	--	<.040	<.08	<.050	<.006
26...	1035	ENVIRONMENTAL	208	12.0	125	8.0	322	15.9	<.040	E.06	.290	<.006
26...	1450	ENVIRONMENTAL	208	9.7	107	8.1	322	18.7	<.040	E.05	.278	<.006
27...	1010	ENVIRONMENTAL	208	9.3	97.9	7.6	317	16.5	<.040	E.07	.299	<.006
27...	1530	ENVIRONMENTAL	208	11.0	125	8.4	315	20.3	<.040	.10	.280	<.006
JUN												
07...	1045	ENVIRONMENTAL	192	7.9	89.8	7.9	340	20.6	<.040	.08	.251	E.004
JUL												
31...	1400	ENVIRONMENTAL	140	8.2	101	8.3	348	25.1	<.040	.08	.266	<.006
AUG												
08...	1030	ENVIRONMENTAL	97	7.4	87.8	8.0	347	22.9	E.035	<.12	<.308	<.006
08...	1515	ENVIRONMENTAL	97	8.7	106	8.1	347	24.1	E.026	E.07	.329	<.006
09...	1015	ENVIRONMENTAL	97	7.9	93.2	8.1	348	22.3	E.026	.10	.296	<.006
09...	1030	BLANK	--	--	--	--	--	--	E.024	<.08	<.050	<.006
09...	1450	ENVIRONMENTAL	97	8.2	99.1	7.9	346	23.6	E.027	.09	.307	<.006
SEP												
18...	1115	ENVIRONMENTAL	115	8.5	93.1	8.0	352	18.6	<.040	<.08	.275	E.004

371014091201301 JACKS FORK ABOVE LICK LOG HOLLOW BELOW EMINENCE, MO--Continued
(Jacks Fork water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	ENTERO-COCCI, MEI MF, WATER (col./ 100 mL) (90909)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)
OCT						
04...	<.010	E.005	K210	K1100	K780	710
NOV						
08...	<.018	E.003	100	250	120	150
DEC						
20...	E.016	<.004	<1	K10	K4	K4
JAN						
23...	<.018	E.003	<1	K6	K1	K3
FEB						
22...	<.018	.010	38	K580	100	130
MAR						
21...	<.018	<.004	--	--	--	--
21...	<.018	.005	K2	K6	K20	20
APR						
24...	<.018	<.004	--	--	--	--
24...	<.018	.005	K1	K6	K10	K5
MAY						
25...	<.020	.006	43	73	55	53
25...	<.020	<.004	--	--	--	--
26...	<.020	.006	31	57	32	--
26...	<.020	.007	K8	K16	K14	--
27...	<.020	.005	37	62	34	58
27...	<.020	.009	K16	44	K14	29
JUN						
07...	<.020	.014	290	730	560	300
JUL						
31...	<.020	.009	37	32	K94	28
AUG						
08...	<.020	<.010	290	K1100	K760	560
08...	<.020	.012	210	350	210	140
09...	<.020	.013	680	K1200	K930	730
09...	<.020	<.004	--	--	--	--
09...	<.020	.009	200	460	560	460
SEP						
18...	<.020	.005	44	70	57	71

E--Laboratory estimated value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
<--Numeric result is less than the value shown.

07066110 JACKS FORK ABOVE TWO RIVERS, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°10'22", long 91°18'00", in SW $^1/_4$ NE $^1/_4$ NW $^1/_4$ sec.20, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, at the Shawnee Campground, 4.5 mi downstream from the Eminence Wastewater Treatment Plant.

DRAINAGE AREA.--425 mi^2.

PERIOD OF RECORD.--April 1973 to current year.

REMARKS.--Ozark National Scenic Riverways station since April 1973 and an Ambient Water-Quality Monitoring Network station since November 1993.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
13...	1300	ENVIRONMENTAL	215	11.4	103	8.0	358	11.3	200	37.9	24.6	.60
JAN												
02...	1300	ENVIRONMENTAL	364	14.3	102	8.0	351	2.5	--	--	--	--
MAR												
15...	1205	ENVIRONMENTAL	328	10.4	98	8.2	261	12.2	--	--	--	--
MAY												
10...	0850	ENVIRONMENTAL	225	7.9	84	8.0	324	18.1	170	33.8	20.9	.55
JUL												
17...	1100	ENVIRONMENTAL	152	8.6	102	7.9	340	22.6	--	--	--	--
SEP												
04...	1630	ENVIRONMENTAL	110	10.1	125	7.8	346	24.8	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
13...	1.8	189	191	233	0	2.5	E.1	4.0	<10	199	<.041	.91	.280
JAN													
02...	--	183	184	225	0	--	--	--	--	--	.016	<.20	.314
MAR													
15...	--	126	126	154	0	--	--	--	--	--	<.041	<.08	.624
MAY													
10...	1.9	165	168	205	0	2.8	E.1	4.1	<10	188	<.041	.10	.294
JUL													
17...	--	174	177	216	0	--	--	--	--	--	<.040	E.05	.234
SEP													
04...	--	181	183	223	0	--	--	--	--	--	<.040	.08	.227

07066110 JACKS FORK ABOVE TWO RIVERS, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
13...	<.006	<.060	<.018	.169	<10	K9	21	23	5	10	E.2	<8.00	<.11
JAN													
02...	<.010	<.020	<.010	<.020	--	E1	E1	E1	--	--	--	--	--
MAR													
15...	<.006	<.060	<.018	<.060	--	K8	20	32	--	--	--	--	--
MAY													
10...	.010	<.060	<.018	<.060	<10	33	38	33	11	21	.2	<8.00	<.11
JUL													
17...	.006	<.060	<.020	<.060	--	K15	41	K11	--	--	--	--	--
SEP													
04...	E.003	<.060	<.020	<.060	--	K12	K18	K28	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV								
13...	<4.7	<10	<.08	<1	<3.2	<.14	13	7
JAN								
02...	--	--	--	--	--	--	--	--
MAR								
15...	--	--	--	--	--	--	--	--
MAY								
10...	<4.7	M	<.08	<1	3.2	<.01	--	3
JUL								
17...	--	--	--	--	--	--	--	--
SEP								
04...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

371026091183301 JACKS FORK ABOVE POWELL SPRING ABOVE TWO RIVERS, MO
(Jacks Fork water-quality monitoring network)

LOCATION.--Lat 37°10'26", long 91°18'33", in SW $^1/_4$ NE $^1/_4$ NE $^1/_4$ sec.19, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, 3.1 mi upstream from Two Rivers.

DRAINAGE AREA.--412 mi^2

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DISSOLVED (mg/L) (00300)	OXYGEN, DISSOLVED (percent saturation) (00301)	pH WATER WHOLE FIELD (standard units) (00400)	SPECIFIC CONDUCTANCE (µS/cm) (00095)	TEMPERATURE WATER (Deg C) (00010)	NITROGEN, AMMONIA DISSOLVED (mg/L as N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITROGEN, NO_2+NO_3 DISSOLVED (mg/L as N) (00631)	NITROGEN, NITRITE DISSOLVED (mg/L as N) (00613)
OCT												
04...	0920	ENVIRONMENTAL	114	9.1	97.8	8.0	341	18.8	<.020	E.06	.262	<.010
NOV												
08...	1600	ENVIRONMENTAL	--	10.3	97.9	8.5	330	12.9	<.041	E.06	.216	<.006
DEC												
20...	1115	ENVIRONMENTAL	164	14.5	107	8.4	343	2.6	<.041	E.05	.350	<.006
JAN												
23...	1300	ENVIRONMENTAL	191	14.5	118	8.4	325	6.3	<.041	<.08	.373	<.006
FEB												
22...	1020	BLANK	--	--	--	--	--	--	<.041	<.08	<.047	<.006
22...	1030	ENVIRONMENTAL	--	11.9	98.1	8.1	270	7.3	<.041	.13	.553	<.006
MAR												
20...	1515	ENVIRONMENTAL	302	11.9	109	8.2	279	11.6	<.041	.08	.552	<.006
APR												
24...	1315	ENVIRONMENTAL	235	10.6	108	8.2	318	16.0	<.041	E.07	.302	<.006
MAY												
25...	0855	ENVIRONMENTAL	235	9.2	92.6	8.0	323	14.6	<.040	.11	.270	<.006
26...	1130	ENVIRONMENTAL	207	10.8	114	--	323	16.7	<.040	E.06	.261	<.006
26...	1525	ENVIRONMENTAL	207	10.7	119	8.2	323	19.1	<.040	E.05	.254	<.006
27...	1045	ENVIRONMENTAL	207	9.8	105	7.6	319	17.2	<.040	E.05	.276	<.006
27...	1600	ENVIRONMENTAL	207	11.1	127	8.4	317	20.5	<.040	E.05	.234	<.006
JUN												
07...	0915	ENVIRONMENTAL	201	7.3	83.4	7.9	344	20.8	<.040	E.07	.240	E.005
JUL												
31...	1330	ENVIRONMENTAL	147	9.4	117	8.3	350	25.6	<.040	.10	.257	E.003
AUG												
08...	0925	ENVIRONMENTAL	121	6.5	78.6	8.0	351	23.9	E.029	.14	.292	<.006
08...	1430	ENVIRONMENTAL	121	9.3	115	8.0	347	25.1	E.036	.09	.246	<.006
09...	0920	ENVIRONMENTAL	121	7.1	86.3	7.8	349	23.4	E.031	.09	.275	<.006
09...	1425	ENVIRONMENTAL	121	9.2	114	7.9	345	25.1	<.040	.13	.254	<.006
SEP												
18...	1045	ENVIRONMENTAL	118	8.2	90.6	8.1	353	19.0	<.040	E.07	.236	E.004

DATE	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) (00671)	PHOSPHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	ENTEROCOCCI, MEI MF, WATER (col./ 100 mL) (90909)	COLIFORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)
OCT						
04...	<.010	E.004	K37	K90	98	70
NOV						
08...	<.018	.004	66	220	90	120
DEC						
20...	<.018	E.002	K2	K14	K8	K10
JAN						
23...	<.018	<.004	K1	K7	K3	K3
FEB						
22	<.018	E.002	--	--	--	--
22...	<.018	.014	70	K610	140	200
MAR						
20...	<.018	.006	<1	K7	<1	K4
APR						
24...	<.018	.004	<1	K8	K10	K5
MAY						
25...	<.020	.008	55	85	35	90
26...	<.020	.007	32	38	25	--
26...	<.020	.007	K6	K14	K11	--
27...	<.020	.006	28	38	37	27
27...	<.020	.006	K16	K32	K13	26
JUN						
07...	<.020	.009	110	76	110	62
JUL						
31...	<.020	.010	K19	21	K65	K9
AUG						
08...	<.020	.008	150	100	240	79
08...	<.020	.005	100	100	150	93
09...	<.020	.007	160	88	100	83
09...	<.020	.010	66	130	K280	93
SEP						
18...	<.020	.004	46	67	40	87

E--Laboratory estimated value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
<--Numerid result is less than the value shown.

371019091180101 SHAWNEE CREEK ABOVE TWO RIVERS, MO
(Jacks Fork water-quality monitoring network)

LOCATION.--Lat 37°10'19", long 91°18'01", in SW $^1/_4$ NE $^1/_4$ NW $^1/_4$ sec.20, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, at Shawnee Creek Campground and 2.4 mi upstream from Two Rivers.

DRAINAGE AREA.--20.0 mi^2.

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)
OCT												
03...	1245	ENVIRONMENTAL	3.3	11.5	126	7.9	520	19.8	<.020	<.10	.162	<.010
NOV												
08...	1040	ENVIRONMENTAL	9.6	9.3	88.2	8.3	476	12.8	<.041	.10	.333	<.006
DEC												
12...	1530	ENVIRONMENTAL	11	14.5	110	8.4	465	4.1	<.041	E.07	.364	<.006
JAN												
24...	1200	ENVIRONMENTAL	7.1	15.6	121	8.4	472	4.8	<.041	<.08	.327	<.006
FEB												
21...	1330	ENVIRONMENTAL	14	12.9	108	8.2	425	7.5	<.041	E.07	.425	<.006
MAR												
20...	1230	ENVIRONMENTAL	9.3	11.9	109	8.3	444	11.5	<.041	.08	.352	<.006
APR												
25...	1100	ENVIRONMENTAL	6.4	9.4	92.7	8.2	478	14.0	<.041	E.05	.261	<.006
MAY												
24...	1705	ENVIRONMENTAL	6.9	8.7	93.3	8.2	491	17.3	<.040	E.05	.187	<.006
26...	1215	ENVIRONMENTAL	6.6	9.6	103	8.2	486	17.3	<.040	E.06	.160	<.006
26...	1710	ENVIRONMENTAL	6.6	9.4	104	8.0	484	18.7	<.040	E.06	.161	<.006
27...	1155	ENVIRONMENTAL	5.3	9.0	97.0	7.9	495	17.6	<.040	E.07	.164	<.006
27...	1555	ENVIRONMENTAL	5.3	8.9	102	7.9	490	20.3	<.040	E.04	.151	<.006
JUN												
06...	1415	ENVIRONMENTAL	5.1	8.8	104	8.0	507	22.5	<.040	E.07	.157	<.006
AUG												
01...	1045	ENVIRONMENTAL	6.5	5.5	67.4	8.0	490	24.7	<.040	.10	.334	E.004
08...	1200	ENVIRONMENTAL	3.1	7.5	94.9	8.0	499	25.5	E.027	E.04	.171	<.006
08...	1620	ENVIRONMENTAL	3.1	7.7	98.4	7.9	496	25.9	E.026	E.07	.163	<.006
09...	1100	ENVIRONMENTAL	3.1	7.0	86.6	8.0	511	24.9	E.030	E.05	.182	<.006
09...	1530	ENVIRONMENTAL	3.1	6.1	76.5	8.0	503	25.2	E.035	E.05	.202	<.006
SEP												
19...	1015	ENVIRONMENTAL	3.8	7.3	82.4	7.9	517	19.9	<.040	E.08	.143	E.003

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	ENTERO-COCCI, MEI MF, WATER (col./ 100 mL) (90909)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)
OCT						
03...	<.010	.009	250	490	330	190
NOV						
08...	E.010	.006	280	790	400	390
DEC						
12...	<.018	E.003	K2	170	K23	86
JAN						
24...	<.018	<.004	K8	K8	<2	K2
FEB						
21...	<.018	E.002	K5	K18	K32	K12
MAR						
20...	<.018	E.002	<2	K8	K8	K4
APR						
25...	<.018	.004	42	K33	300	K27
MAY						
24...	<.020	.007	K27	450	K28	290
26...	<.020	.006	K3	200	K15	160
26...	<.020	.007	K14	220	K23	280
27...	<.020	.008	K10	200	K17	200
27...	<.020	.007	K27	130	K25	200
JUN						
06...	<.020	.008	150	230	96	120
AUG						
01...	E.010	.013	44	500	100	480
08...	<.020	.006	110	270	120	180
08...	<.020	.007	96	380	110	300
09...	<.020	.007	220	380	230	270
09...	<.020	.006	220	K1400	340	K1100
SEP						
19...	<.020	.008	K33	240	K18	150

E--Laboratory estimated value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
<--Numeric result is less than the value shown.

371020091174101 JACKS FORK ABOVE LITTLE SHAWNEE CREEK ABOVE TWO RIVERS, MO
(Jacks Fork water-quality monitoring network)

LOCATION.--Lat 37°10'20", long 91°17'41", in SW $^1/_4$ NW $^1/_4$ NE $^1/_4$ sec.20, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, just below Shawnee Creek Campground and 2.2 mi upstream from Two Rivers.

DRAINAGE AREA.--433 mi^2.

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)
OCT												
03...	1200	ENVIRONMENTAL	123	11.8	127	7.9	341	18.9	<.020	E.05	.251	<.010
NOV												
08...	0930	ENVIRONMENTAL	239	9.5	90.1	8.2	347	12.8	<.041	E.04	.234	<.006
DEC												
12...	1515	ENVIRONMENTAL	--	14.2	112	8.4	343	5.5	<.041	E.06	.338	<.006
JAN												
24...	1120	ENVIRONMENTAL	203	13.5	109	8.0	331	6.4	<.041	<.08	.370	<.006
FEB												
21...	1300	ENVIRONMENTAL	--	11.9	102	7.9	276	8.8	<.041	.41	.556	<.006
MAR												
20...	1215	ENVIRONMENTAL	299	11.8	108	8.3	282	11.3	<.041	E.06	.547	<.006
APR												
25...	1015	ENVIRONMENTAL	228	9.0	88.5	8.2	324	13.9	<.041	E.05	.303	E.003
MAY												
24...	1720	ENVIRONMENTAL	250	9.6	103	8.4	322	17.5	.060	E.06	.251	<.006
26...	1130	ENVIRONMENTAL	216	9.9	104	8.2	323	16.6	<.040	<.08	.253	<.006
26...	1725	ENVIRONMENTAL	216	11.0	123	8.2	315	19.4	<.040	E.06	.244	<.006
27...	1143	ENVIRONMENTAL	216	9.7	105	7.8	325	17.8	<.040	E.07	.250	<.006
27...	1550	ENVIRONMENTAL	216	11.5	132	8.5	321	20.7	<.040	.14	.252	<.006
JUN												
06...	1400	ENVIRONMENTAL	215	10.2	120	8.0	344	22.1	<.040	E.07	.223	E.003
AUG												
01...	1030	ENVIRONMENTAL	145	6.9	84.6	8.1	359	24.7	<.040	.08	.258	.006
08...	1130	ENVIRONMENTAL	116	7.7	95.0	8.0	353	24.7	E.029	.10	.265	E.003
08...	1630	ENVIRONMENTAL	116	9.1	115	8.1	344	25.8	E.029	.10	.251	<.006
09...	1045	ENVIRONMENTAL	116	8.8	107	8.0	354	24.0	E.032	.09	.267	<.006
09...	1520	ENVIRONMENTAL	116	8.4	105	8.2	350	25.0	E.032	.11	.249	<.006
SEP												
19...	0945	BLANK	--	--	--	--	--	--	<.040	<.08	<.050	<.006
19...	1000	ENVIRONMENTAL	117	7.6	84.3	7.8	359	19.1	<.040	E.08	.240	E.003

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	ENTERO-COCCI, MEI MF, WATER (col./ 100 mL) (90909)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)
OCT						
03...	<.010	E.004	78	120	K130	84
NOV						
08...	<.018	E.003	84	200	90	120
DEC						
12...	<.018	<.004	<1	61	K3	K10
JAN						
24...	<.018	<.004	K1	K10	K9	K5
FEB						
21...	<.018	.004	K2	21	K16	22
MAR						
20...	<.018	.004	<1	K2	K3	K4
APR						
25...	<.018	.005	K6	43	56	22
MAY						
24...	--	.007	21	34	24	47
26...	<.020	.006	23	42	21	K21
26...	<.020	.008	K8	K16	K14	K14
27...	<.020	.005	20	30	K8	38
27...	<.020	.008	K9	K15	K9	K17
JUN						
06...	<.020	.008	42	78	64	K20
AUG						
01...	<.020	.007	42	64	180	55
08...	.024	.007	52	44	180	K21
08...	<.020	.008	42	56	130	52
09...	<.020	<.004	130	96	K270	56
09...	.030	.008	140	230	K260	250
SEP						
19...	<.020	<.004	--	--	--	--
19...	<.020	.005	61	79	59	57

E--Laboratory estimated value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
<--Numeric result is less than the value shown.

371054091173501 JACKS FORK BELOW 3RD UNNAMED HOLLOW (NORTH) ABOVE TWO RIVERS, MO
(Jacks Fork water-quality monitoring network)

LOCATION.--Lat 37°10'54", long 91°17'35", in NE 1/4 NW 1/4 SE 1/4 sec.17, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, 1.4 mi upstream from Two Rivers.

DRAINAGE AREA.--444 mi^2.

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)
OCT												
03...	1030	ENVIRONMENTAL	--	10.8	114	8.1	349	18.3	<.020	E.07	.248	<.010
NOV												
08...	0820	ENVIRONMENTAL	--	8.9	84.4	8.2	352	12.8	<.041	E.04	.238	<.006
DEC												
12...	1315	ENVIRONMENTAL	195	13.8	106	8.4	356	4.8	<.041	E.07	.353	<.006
JAN												
24...	0930	ENVIRONMENTAL	186	12.2	97.2	7.9	339	5.9	<.041	E.04	.366	<.006
FEB												
21...	1100	ENVIRONMENTAL	475	12.3	106	7.8	281	8.8	<.041	E.07	.566	<.006
MAR												
20...	1045	ENVIRONMENTAL	--	11.1	98.9	8.2	289	10.3	<.041	E.06	.556	<.006
APR												
25...	0900	ENVIRONMENTAL	235	8.5	84.1	8.1	327	14.2	<.041	E.05	.296	<.006
MAY												
24...	1500	ENVIRONMENTAL	--	10.1	108	8.1	327	17.1	<.040	E.04	.238	<.006
26...	1000	ENVIRONMENTAL	218	9.1	93.9	8.1	326	15.7	<.040	.08	.248	<.006
26...	1545	ENVIRONMENTAL	218	10.8	119	7.8	324	18.7	--	--	--	--
27...	0945	ENVIRONMENTAL	193	8.6	91.2	8.0	332	16.8	<.040	E.07	.256	<.006
27...	1510	ENVIRONMENTAL	193	11.4	129	8.3	330	19.9	<.040	E.07	.242	<.006
JUN												
06...	1145	ENVIRONMENTAL	213	8.8	102	8.0	353	21.3	--	--	--	--
AUG												
01...	1215	ENVIRONMENTAL	150	7.0	87.2	8.1	362	25.6	<.040	.09	.240	.006
08...	0945	ENVIRONMENTAL	122	6.8	83.4	7.8	358	24.1	E.039	.09	.268	<.006
08...	1545	ENVIRONMENTAL	122	8.4	107	7.8	353	25.8	E.036	.09	.243	<.006
09...	0945	ENVIRONMENTAL	122	6.6	79.7	8.0	358	23.6	E.032	.10	.273	<.006
09...	1430	ENVIRONMENTAL	122	7.8	97.5	8.1	354	25.0	E.028	.09	.267	E.003
SEP												
19...	0850	ENVIRONMENTAL	125	7.1	78.8	7.7	364	19.1	<.040	E.07	.253	E.004

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	ENTERO-COCCI, MEI MF, WATER (col./ 100 mL) (90909)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)
OCT						
03...	<.010	E.004	58	74	110	38
NOV						
08...	<.018	E.002	110	300	100	150
DEC						
12...	<.018	E.003	<1	72	K13	36
JAN						
24...	<.018	E.002	24	K12	24	K12
FEB						
21...	<.018	E.003	K13	43	30	23
MAR						
20...	<.018	.004	<1	K7	K1	K6
APR						
25...	<.018	.004	K18	41	56	36
MAY						
24...	<.020	.006	24	66	24	48
26...	<.020	.009	37	76	50	42
26...	--	--	K3	K20	K12	24
27...	<.020	.006	59	77	K75	68
27...	<.020	.006	K4	K11	K11	25
JUN						
06...	--	--	43	73	59	51
AUG						
01...	<.020	.008	23	54	K98	38
08...	<.020	.005	74	82	140	40
08...	<.020	.006	K28	82	84	48
09...	<.020	.007	140	89	150	60
09...	<.020	.008	68	81	140	60
SEP						
19...	<.020	.006	62	77	K63	66

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

07067000 CURRENT RIVER AT VAN BUREN, MO

LOCATION.--Lat 36°59'29", long 91°00'53", in NE $^1/_4$ NW $^1/_4$ sec.25, T.27 N., R.1 W., Carter County, Hydrologic Unit 11010008, near right bank on downstream side of bridge pier on U.S. Highway 60 in Van Buren, 0.4 mi downstream from Pike Creek, 4.7 mi upstream from Big Creek, and at mile 90.4.

DRAINAGE AREA.--1,667 mi^2.

PERIOD OF RECORD.--October 1912 to current year. Prior to July 1921 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 877: 1938. WSP 897: 1939. WSP 927: Drainage area. WSP 1281: 1929.

GAGE.--Water-stage recorder. Datum of gage is 442.78 ft above sea level. Prior to Sept. 1, 1926, nonrecording gage at site 100 ft downstream at different datum; Sept. 1, 1926, to Oct. 19, 1934, nonrecording gage and Oct. 20, 1934, to Sept. 30, 1939, water-stage recorder, at present site and datum 3.00 ft higher, set to read same as gage 100 ft downstream.

REMARKS.--Records good except for estimated daily discharges, which are fair. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1904, reached a stage of 29.0 ft, present datum, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	584	609	790	635	2330	3610	941	772	811	810	686	546
2	579	618	755	621	1860	3190	934	759	847	720	647	542
3	577	615	725	611	1560	2850	970	748	897	680	622	535
4	574	602	703	621	1370	2560	1020	738	949	656	607	528
5	581	595	689	625	1240	2280	1060	729	1080	633	591	524
6	589	653	678	630	1140	2050	1090	753	1080	619	580	519
7	568	936	673	e641	1070	1880	1100	781	967	618	574	521
8	558	900	666	661	1010	1750	1070	779	882	608	576	545
9	558	860	661	675	1050	1650	1030	737	824	594	585	1100
10	562	826	667	680	1360	1540	996	714	783	589	611	1040
11	569	774	687	694	1670	1470	982	707	758	585	598	791
12	571	743	878	712	1630	1410	999	693	732	613	649	688
13	574	748	981	731	1520	1360	974	676	707	648	672	636
14	573	736	1020	855	1860	1280	932	666	691	622	628	605
15	578	719	932	1210	2490	1270	997	654	779	597	594	582
16	646	707	895	1550	3210	1320	1150	642	766	582	580	570
17	800	688	870	1420	3410	1330	1180	646	725	579	571	561
18	776	670	842	1250	2910	1330	1160	693	702	575	563	573
19	713	656	816	1140	2490	1270	1100	1070	678	571	574	580
20	668	648	787	1050	2220	1220	1060	928	669	604	554	571
21	e646	633	763	974	2000	1170	1040	1060	712	588	544	559
22	633	627	738	915	2440	1140	998	1270	726	576	542	556
23	625	624	e716	869	2790	1110	979	1210	694	565	535	552
24	612	653	704	835	3200	1080	971	1050	687	587	532	552
25	606	999	e692	801	10200	1030	909	943	668	963	531	552
26	603	1230	e685	781	10400	991	876	870	649	751	540	542
27	600	1150	e681	762	5500	963	847	806	645	754	541	541
28	601	1030	670	741	4320	942	830	770	672	1300	531	540
29	596	923	e656	808	---	935	807	747	672	903	526	535
30	616	843	e645	1540	---	964	788	739	675	780	522	530
31	615	---	e641	2840	---	971	---	790	---	738	544	---
MEAN	611	767	752	932	2795	1546	993	811	771	678	579	601
MAX	800	1230	1020	2840	10400	3610	1180	1270	1080	1300	686	1100
MIN	558	595	641	611	1010	935	788	642	645	565	522	519
IN.	.42	.51	.52	.64	1.75	1.07	.66	.56	.52	.47	.40	.40

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	1097	1724	1907	2007	2263	2814	3402	3024	2119	1324	1094	1031
MAX	4087	7171	10740	7357	6764	7148	11730	8256	9761	6465	3581	3860
(WY)	1985	1994	1983	1950	1985	1945	1927	1957	1928	1951	1927	1993
MIN	492	573	535	538	658	778	805	679	628	575	532	495
(WY)	1957	1955	1956	1956	1934	1941	1956	1936	1936	1936	1954	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	882		974		1980	
HIGHEST ANNUAL MEAN					4811	1985
LOWEST ANNUAL MEAN					799	1954
HIGHEST DAILY MEAN	4140	Feb 19	10400	Feb 26	72000	Nov 15 1993
LOWEST DAILY MEAN	541	Sep 21,22	519	Sep 6	476	Oct 8 1956
ANNUAL SEVEN-DAY MINIMUM	545	Sep 17	531	Sep 2	479	Oct 6 1956
MAXIMUM PEAK FLOW	---		15900	Feb 26	125000	Aug 21 1915
MAXIMUM PEAK STAGE	---		10.54	Feb 26	27.39	Nov 15 1993
INSTANTANEOUS LOW FLOW	---		506	Sep 6,7	473	Oct 7 1956
ANNUAL RUNOFF (INCHES)	7.21		7.93		16.14	
10 PERCENT EXCEEDS	1240		1410		3720	
50 PERCENT EXCEEDS	746		731		1250	
90 PERCENT EXCEEDS	589		567		694	

e Estimated

07067500 BIG SPRING NEAR VAN BUREN, MO

LOCATION.--Lat 36°57'05", long 90°59'36", in SW $^1/_4$ NE $^1/_4$ sec.6, T.26 N., R.1 E., Carter County, Hydrologic Unit 11010008, on right bank 400 ft downstream from spring outlet, 0.4 mi upstream from Current River, and 3.5 mi southeast of Van Buren.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1921 to September 1996, Feb. 8, 2000 to current year. Prior to Oct. 1, 1923, published as "near Chicopee". Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1311: 1922-23, 1928(M), 1929.

GAGE.--Water stage recorder. Gage height record furnished by the National Park Service. Datum of gage is 429.08 ft above sea level. Prior to Feb. 19, 1971, nonrecording gage; prior to Oct. 1, 1934, at datum 1.0 ft higher. Water-stage recorder Feb. 19, 1971 to March 15, 1978, at present datum. Nonrecording gage from March 1978 to September 1996.

REMARKS.--Water-discharge records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	291	283	277	265	e311	582	314	340	302	308	284	272
2	291	280	e277	263	e305	542	321	338	301	309	279	273
3	287	280	277	266	304	506	318	e336	301	309	281	274
4	287	281	275	266	299	471	319	335	303	309	280	272
5	284	281	274	265	297	446	336	337	302	310	278	274
6	e284	280	274	266	294	438	340	336	303	310	278	279
7	e284	e279	276	265	293	431	340	331	303	309	277	278
8	e283	e279	e273	266	292	422	338	330	302	307	279	272
9	e284	e279	273	263	e293	408	337	330	303	306	279	276
10	284	e279	273	268	e293	406	337	330	303	305	280	273
11	284	e279	e272	267	e293	400	336	325	305	303	283	281
12	284	279	e272	267	307	394	e335	e324	305	303	277	280
13	285	277	271	268	306	382	e334	323	304	302	277	279
14	285	276	e272	275	332	383	334	322	306	302	276	277
15	286	278	272	281	371	382	e333	322	301	299	277	275
16	284	e277	e271	287	429	360	e333	320	296	298	290	278
17	284	e277	e270	286	459	348	e333	318	304	296	303	278
18	284	e277	269	284	433	342	341	315	308	294	303	279
19	285	279	e268	280	411	346	352	322	306	293	296	276
20	285	275	272	280	388	341	354	322	305	294	292	269
21	284	276	267	279	370	334	350	309	307	293	288	265
22	284	276	267	278	397	338	348	305	311	291	283	266
23	283	275	269	277	425	342	345	305	310	291	278	267
24	283	276	266	274	469	328	e344	303	308	289	278	264
25	283	285	266	272	e650	325	343	302	307	288	278	268
26	285	293	268	271	e731	323	343	302	307	288	278	269
27	282	289	267	e270	e694	319	341	301	306	291	278	268
28	284	285	268	270	e636	320	339	297	308	342	277	267
29	283	280	266	281	---	323	339	298	310	315	277	267
30	283	280	266	313	---	318	339	301	309	296	278	269
31	284	---	267	322	---	317	---	303	---	289	278	---
MEAN	285	280	271	275	396	384	337	319	305	301	282	273
MAX	291	293	277	322	731	582	354	340	311	342	303	281
MIN	282	275	266	263	292	317	314	297	296	288	276	264
IN.	3.28	3.12	3.12	3.18	4.12	4.43	3.76	3.68	3.40	3.47	3.25	3.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2001, BY WATER YEAR (WY)

MEAN	345	389	415	441	463	518	575	559	484	415	377	352
MAX	599	769	1070	828	823	836	902	944	950	772	702	525
(WY)	1950	1986	1983	1937	1949	1945	1973	1957	1927	1928	1927	1927
MIN	243	248	252	247	279	279	279	261	253	249	252	250
(WY)	1957	1957	1956	1956	1977	1936	1936	1936	1936	1936	1936	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1922 - 2001	
ANNUAL MEAN			308		445	
HIGHEST ANNUAL MEAN					648	1950
LOWEST ANNUAL MEAN					289	1936
HIGHEST DAILY MEAN	623	Feb 19	731	Feb 26	2000	Dec 3 1982
LOWEST DAILY MEAN	266	Dec 24,25,29,30	263	Jan 2,9	236	Oct 6 1956
ANNUAL SEVEN-DAY MINIMUM	267	Dec 24	265	Jan 1	238	Oct 1 1956
ANNUAL RUNOFF (INCHES)	---		41.87		60.49	
10 PERCENT EXCEEDS	400		345		688	
50 PERCENT EXCEEDS	335		291		394	
90 PERCENT EXCEEDS	276		269		290	

e Estimated

07067500 BIG SPRING NEAR VAN BUREN, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1973 to current year.

REMARKS.--Ozark National Scenic Riverways station from April 1975 to 1996, Ambient Water-Quality Monitoring Network station since November 1993.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NDEC												
04...	1410	ENVIRONMENTAL	275	8.9	88	7.2	352	14.7	--	--	--	--
MAR												
14...	0900	ENVIRONMENTAL	383	9.4	92	7.5	241	14.0	130	26.2	14.9	.48
14...	0930	BLANK	--	--	--	--	--	--	0	.06	.009	<.09
MAY												
09...	0820	ENVIRONMENTAL	330	11.4	111	7.5	335	14.5	--	--	--	--
AUG												
14...	1000	BLANK	--	--	--	--	--	--	0	.07	.009	<.09
14...	1015	ENVIRONMENTAL	276	9.7	100	7.5	351	15.0	200	39.8	23.2	.29

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
DEC													
04...	--	176	176	215	0	--	--	--	--	--	<.041	.10	.326
MAR													
14...	2.2	114	112	137	0	3.0	<.2	2.9	<10	154	<.041	<.08	.723
14...	.4	--	--	--	--	<.1	<.2	.1	<10	<10	<.041	<.08	<.047
MAY													
09...	--	174	175	213	0	--	--	--	--	--	<.041	<.08	.353
AUG													
14...	.5	--	--	--	--	<.1	<.2	E.1	<10	<10	<.040	<.08	<.050
14...	2.1	183	186	227	0	2.0	<.2	1.9	<10	174	E.024	<.08	.308

07067500 BIG SPRING NEAR VAN BUREN, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITROGEN, NITRITE DISSOLVED (mg/L as N) (00613)	PHOSPHORUS DISSOLVED (mg/L as P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) (00671)	PHOSPHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEMICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	ARSENIC DISSOLVED (µg/L as As) (01000)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
DEC													
04...	<.006	<.060	E.009	<.060	--	K1	K1	K1	--	--	--	--	--
MAR													
14...	E.004	<.060	<.018	<.060	<10	K6	K12	K9	35	65	.2	<8.00	<.11
14...	<.006	<.060	<.018	<.060	<10	--	--	--	7	7	<.2	<8.00	<.11
MAY													
09...	E.003	<.060	<.018	<.060	--	K4	K5	35	--	--	--	--	--
AUG													
14...	<.006	<.060	<.020	<.060	<10	--	--	--	6	6	<.2	<8.00	<.10
14...	<.006	<.060	<.020	<.060	<10	K5	K2	K11	7	16	<.2	<8.00	<.10

DATE	COPPER, DISSOLVED (µg/L as Cu) (01040)	IRON, DISSOLVED (µg/L as Fe) (01046)	LEAD, DISSOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOVERABLE (µg/L as Pb) (01051)	MANGANESE, DISSOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOVERABLE (µg/L as Hg) (71900)	ZINC, DISSOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOVERABLE (µg/L as Zn) (01092)
DEC								
04...	--	--	--	--	--	--	--	--
MAR								
14...	E3.2	30	E.07	<1	<3.2	<.14	--	6
14...	E3.3	<10	<.08	<1	<3.2	<.14	<1	1
MAY								
09...	--	--	--	--	--	--	--	--
AUG								
14...	<5.0	<10	<.08	<1	<3.0	.06	<1	2
14...	<5.0	<10	<.08	<1	<3.0	.01	--	5

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

07068000 CURRENT RIVER AT DONIPHAN, MO

LOCATION.--Lat 36°37'19", long 90°50'51", in NW $^1/_4$ NW $^1/_4$ sec.27, T.23 N., R.2 E., Ripley County, Hydrologic Unit 11010008, on right bank 0.5 mi upstream from U.S. Highway 160, 1.0 mi west of Doniphan, 2.5 mi upstream from Briar Creek, and at mile 51.3.

DRAINAGE AREA.--2,038 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1918 to current year. Prior to July 1921 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 877: 1937-38(M). WSP 927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 321.21 ft above sea level. July 1936 to Sept. 30, 1971, datum was 1.00 ft higher. Prior to July 3, 1936, nonrecording gages at several sites 0.5 mi downstream at various datums.

REMARKS.--Water-discharge records good. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1904 reached a stage of 25.9 ft, from floodmarks, present site and datum, discharge, 130,000 ft^3/s, from rating curve extended above 60,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	1070	1330	1090	3180	5220	1600	1400	1330	1160	1100	937
2	1020	1090	1270	1080	2650	4580	1580	1370	1340	1220	1040	920
3	1020	1080	1230	1070	2270	4110	1590	1350	1390	1150	996	914
4	1020	1070	1200	1060	2030	3760	1660	1330	1430	1110	975	901
5	1020	1060	1180	1070	1870	3400	1760	1320	1480	1100	938	895
6	1080	1150	1160	1070	1740	3100	1810	1320	1610	1070	915	890
7	1020	1200	1150	1080	1650	2850	1860	1360	1560	1050	902	883
8	997	1410	1140	1080	1580	2660	1840	1350	1450	1040	897	932
9	992	1390	1130	1100	1570	2510	1790	1320	1360	1020	907	1320
10	994	1330	1130	1110	1680	2370	1740	1280	1300	1010	922	1630
11	995	1280	1150	1120	1970	2250	1710	1280	1260	997	1010	1400
12	999	1240	1170	1140	2200	2190	1680	1260	1230	1000	943	1190
13	1000	1240	1400	1160	2160	2120	1670	1220	1200	1030	998	1090
14	1000	1220	1450	1240	2320	2030	1620	1200	1180	1030	982	1040
15	1010	1200	1440	1420	3150	2000	1680	1190	1310	1010	930	991
16	1050	1180	1400	1810	4250	2020	1760	1180	1270	983	906	964
17	1150	1160	1360	1980	4690	2020	1840	1170	1230	982	900	951
18	1240	1140	1330	1840	4330	2020	1880	1180	1190	969	910	945
19	1200	1120	1310	1710	3760	1990	1840	1360	1160	986	894	984
20	1150	1110	1280	1600	3350	1930	1780	1610	1140	971	895	951
21	1100	1090	1240	1510	3040	1870	1750	1480	1170	970	891	944
22	1090	1080	1220	1430	3110	1830	1710	1670	1180	954	894	934
23	1080	1080	1200	1380	3580	1780	1690	1800	1180	931	893	929
24	1070	1150	1170	1330	3900	1740	1680	1690	1140	994	892	931
25	1060	1380	1150	1290	7480	1690	1610	1540	1130	1100	895	919
26	1060	1680	1140	1260	14500	1640	1560	1450	1110	1180	910	913
27	1050	1740	1130	1240	8860	1600	1520	1380	1100	1180	926	906
28	1050	1640	1130	1220	6250	1570	1490	1320	1100	1260	918	903
29	1050	1510	1120	1300	---	1560	1450	1280	1140	1710	908	898
30	1080	1400	1110	1540	---	1600	1420	1280	1130	1280	902	894
31	1080	---	1100	2650	---	1610	---	1320	---	1160	940	---
MEAN	1057	1250	1223	1354	3683	2375	1686	1363	1260	1084	933	997
MAX	1240	1740	1450	2650	14500	5220	1880	1800	1610	1710	1100	1630
MIN	992	1060	1100	1060	1570	1560	1420	1170	1100	931	891	883
IN.	.60	.68	.69	.77	1.88	1.34	.92	.77	.69	.61	.53	.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2001, BY WATER YEAR (WY)

MEAN	1646	2395	2686	2869	3123	3840	4592	4095	2971	1977	1679	1576
MAX	4596	8514	16210	9054	7971	9260	16140	10430	12610	7676	5001	4547
(WY)	1985	1994	1983	1949	1985	1935	1927	1957	1928	1951	1927	1993
MIN	872	927	950	917	1122	1218	1476	1183	1075	959	933	903
(WY)	1957	1955	1956	1956	1934	1941	1956	1936	1936	1934	2001	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1921 - 2001	
ANNUAL MEAN	1488		1507		2783	
HIGHEST ANNUAL MEAN					5856	1985
LOWEST ANNUAL MEAN					1326	1954
HIGHEST DAILY MEAN	5470	Feb 19	14500	Feb 26	90000	Mar 12 1935
LOWEST DAILY MEAN	922	Sep 20,22	883	Sep 7	852	Oct 8 1956
ANNUAL SEVEN-DAY MINIMUM	927	Sep 17	893	Aug 19	852	Oct 8 1956
MAXIMUM PEAK FLOW	---		16600	Feb 26	122000	Dec 3 1982
MAXIMUM PEAK STAGE	---		8.23	Feb 26	25.49	Dec 3 1982
INSTANTANEOUS LOW FLOW	---		879	Aug 9	852	Oct 8 1956
ANNUAL RUNOFF (INCHES)	9.94		10.04		18.55	
10 PERCENT EXCEEDS	2180		2020		4950	
50 PERCENT EXCEEDS	1260		1200		1920	
90 PERCENT EXCEEDS	1020		932		1170	

07068000 CURRENT RIVER AT DONIPHAN, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1969 to July 1975, October 1979 to September 1980, October 1981 to September 1982, October 1983 to June 1989, November 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT												
17...	1300	ENVIRONMENTAL	1150	10.5	110	7.8	329	17.5	--	--	--	--
NOV												
15...	0830	ENVIRONMENTAL	1200	10.6	91	7.8	328	8.7	180	35.2	21.9	.18
DEC												
04...	1255	ENVIRONMENTAL	1200	13.3	110	8.0	335	7.2	--	--	--	--
JAN												
04...	0830	ENVIRONMENTAL	1060	14.2	103	7.7	338	2.3	190	38.0	23.0	.40
FEB												
07...	1630	ENVIRONMENTAL	1630	10.1	89	7.8	321	10.3	--	--	--	--
MAR												
14...	1300	ENVIRONMENTAL	2030	9.0	86	8.2	257	13.3	--	--	--	--
APR												
04...	0910	ENVIRONMENTAL	1640	7.0	68	8.0	293	14.3	--	--	--	--
MAY												
09...	1340	ENVIRONMENTAL	1320	8.8	99	8.3	322	21.5	170	34.5	20.4	.65
JUN												
19...	1150	ENVIRONMENTAL	1170	9.6	118	8.1	334	25.7	--	--	--	--
JUL												
17...	1120	ENVIRONMENTAL	994	7.9	96	8.0	332	24.4	180	35.3	21.5	.36
17...	1121	REPLICATE	--	--	--	--	--	--	180	35.6	21.9	.63
AUG												
14...	1230	ENVIRONMENTAL	985	8.4	104	7.9	336	25.4	--	--	--	--
SEP												
10...	1345	ENVIRONMENTAL	2830	7.7	92	7.8	326	23.9	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT													
17...	--	173	173	211	0	--	--	--	--	--	<.041	E.07	.140
NOV													
15...	2.6	176	177	216	0	3.1	--	2.9	<10	190	<.041	1.4	.141
DEC													
04...	--	177	177	215	0	--	--	--	--	--	<.041	.09	.163
JAN													
04...	1.9	179	181	221	0	2.9	<.1	3.4	<1	189	<.010	.22	.190
FEB													
07...	--	167	168	205	--	--	--	--	--	--	<.041	E.07	.294
MAR													
14...	--	122	122	149	0	--	--	--	--	--	<.041	<.08	.590
APR													
04...	--	144	144	176	0	--	--	--	--	--	<.041	.09	.365
MAY													
09...	1.9	160	160	195	1	2.9	<.2	3.3	<10	180	<.041	.11	.217
JUN													
19...	--	166	168	205	0	--	--	--	--	--	<.040	.09	.104
JUL													
17...	2.2	174	176	216	0	2.6	<.2	3.0	<10	172	<.040	E.06	.106
17...	2.0	--	--	--	--	2.6	<.2	2.9	<10	176	<.040	E.06	.122
AUG													
14...	--	166	168	205	0	--	--	--	--	--	<.040	E.06	.096
SEP													
10...	--	159	158	193	0	--	--	--	--	--	<.040	.11	.110

07068000 CURRENT RIVER AT DONIPHAN, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
17...	<.006	<.060	<.018	<.060	--	K16	33	27	--	--	--	--	--
NOV													
15...	<.006	<.060	<.018	.429	<10	K11	K7	K7	6	18	E.2	<8.00	<.11
DEC													
04...	<.006	<.060	<.018	<.060	--	K1	K1	K1	--	--	--	--	--
JAN													
04...	<.010	<.020	<.010	<.020	<5	K1	K3	K1	7	15	.2	<.05	<.10
FEB													
07...	<.006	<.060	<.018	<.060	--	K1	K7	K1	--	--	--	--	--
MAR													
14...	<.006	<.060	<.018	<.060	--	K1	<1	<1	--	--	--	--	--
APR													
04...	<.006	<.060	<.018	<.060	--	K16	K12	K11	--	--	--	--	--
MAY													
09...	<.006	<.060	<.018	<.060	<10	K1	K3	K3	9	23	.2	<8.00	<.11
JUN													
19...	<.006	<.060	<.020	<.060	--	K2	K4	K13	--	--	--	--	--
JUL													
17...	E.005	<.060	<.020	<.060	<10	K9	K6	K4	7	19	.2	<8.00	<.10
17...	E.005	<.060	<.020	<.060	<10	--	--	--	8	20	.3	<8.00	<.10
AUG													
14...	<.006	<.060	<.020	<.060	--	K4	K5	K3	--	--	--	--	--
SEP													
10...	<.006	<.060	<.020	<.060	--	20	41	21	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
OCT								
17...	--	--	--	--	--	--	--	--
NOV								
15...	<4.7	<10	E.06	<1	E2.3	<.14	--	3
DEC								
04...	--	--	--	--	--	--	--	--
JAN								
04...	.2	M	<.05	<.1	1.9	<.10		<2
FEB								
07...	--	--	--	--	--	--	--	--
MAR								
14...	--	--	--	--	--	--	--	--
APR								
04...	--	--	--	--	--	--	--	--
MAY								
09...	<4.7	M	.14	M	3.4	<.01	12	4
JUN								
19...	--	--	--	--	--	--	--	--
JUL								
17...	<5.0	<10	<.08	<1	3.9	.19	10	1
17...	<5.0	<10	<.08	<1	3.7	.22	7	2
AUG								
14...	--	--	--	--	--	--	--	--
SEP								
10...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07068510 LITTLE BLACK RIVER BELOW FAIRDEALING, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°37'54", long 90°34'31", in NE $^1/_4$ SW $^1/_4$ NE $^1/_4$ sec.24, T.23 N., R.4 W., Butler County, Hydrologic Unit 11010008. Sampling site is located approximately 5.0 mi below Beaver Dam Creek and 3.1 mi southeast of Fairdealing on Ball Mill Bridge.

DRAINAGE AREA.--194 mi^2.

PERIOD OF RECORD.--August 1980 to September 1986, November 1999 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May 1981 to September 1986.
SUSPENDED-SEDIMENT DISCHARGE: July 1980 to September 1986.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Minimum 30.0 °C several days in July 1980; minimum 0.0 °C on many days.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 643 mg/L, Aug. 16, 1982; minimum daily mean, 1 mg/L on many days.
SUSPENDED-SEDIMENT LOAD: Maximum daily, 11,100 tons, Dec. 2, 1982; minimum daily 0.12 tons, Dec. 19, 1982.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
14...	1600	ENVIRONMENTAL	64	9.6	86.8	7.5	265	11.2	144	29.2	17.3	.94
JAN												
03...	1520	ENVIRONMENTAL	58	12.0	80.4	7.5	186	.5	--	--	--	--
MAR												
15...	0855	ENVIRONMENTAL	176	8.7	84.8	7.9	163	12.0	--	--	--	--
MAY												
08...	1510	ENVIRONMENTAL	77	6.6	72.6	7.6	226	20.2	113	23.3	13.3	.60
JUL												
17...	1410	ENVIRONMENTAL	34	6.2	77.4	7.3	314	26.1	--	--	--	--
SEP												
11...	0830	ENVIRONMENTAL	99	5.0	56.8	7.1	234	21.5	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
14...	2.2	137	140	170	0	2.7	<.2	4.1	<10	155	<.041	1.8	E.023
JAN													
03...	--	138	139	170	0	--	--	--	--	--	.023	<.20	.030
MAR													
15...	--	69	70	86	0	--	--	--	--	--	<.041	.15	.064
MAY													
08...	2.2	111	110	135	0	3.8	E.1	3.9	21	112	<.041	.32	.064
JUL													
17...	--	154	155	189	0	--	--	--	--	--	E.037	.30	.056
SEP													
11...	--	108	109	133	0	--	--	--	--	--	.052	.44	.111

07068510 LITTLE BLACK RIVER BELOW FAIRDEALING, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITROGEN, NITRITE DISSOLVED (mg/L as N) (00613)	PHOSPHORUS DISSOLVED (mg/L as P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) (00671)	PHOSPHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEMICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	ARSENIC DISSOLVED (µg/L as As) (01000)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
14...	<.006	<.060	<.018	.964	<10	54	130	120	45	84	.4	<8.00	<.11
JAN													
03...	<.010	<.020	<.010	<.020	--	K1	K1	K3	--	--	--	--	--
MAR													
15...	E.003	<.060	<.018	E.038	--	K25	40	64	--	--	--	--	--
MAY													
08...	.013	<.060	<.018	E.031	11	61	K70	36	66	186	.7	<8.00	<.11
JUL													
17...	.006	E.039	<.020	<.060	--	38	K75	30	--	--	--	--	--
SEP													
11...	.008	.080	.071	.143	--	320	310	600	--	--	--	--	--

DATE	COPPER, DISSOLVED (µg/L as Cu) (01040)	IRON, DISSOLVED (µg/L as Fe) (01046)	LEAD, DISSOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOVERABLE (µg/L as Pb) (01051)	MANGANESE, DISSOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOVERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOVERABLE (µg/L as Zn) (01092)
NOV							
14...	E2.5	170	.09	<1	32.4	<.14	<1
JAN							
03...	--	--	--	--	--	--	--
MAR							
15...	--	--	--	--	--	--	--
MAY							
08...	<4.7	240	.26	M	79.4	<.01	5
JUL							
17...	--	--	--	--	--	--	--
SEP							
11...	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07071000 GREER SPRING AT GREER, MO

LOCATION.--Lat 36°47'11", long 91°20'53", in SE $^1/_4$ SW $^1/_4$ sec.36, T.25 N., R.4 W., Oregon County, Hydrologic Unit 11010011, on right bank 300 ft downstream from lower outlet of spring, 1 mi north of Greer, and 1 mi upstream from Eleven Point River.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August to December 1904 (gage height and discharge measurements only), October 1921 to current year. October to December 1921 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 564.00 ft above sea level. Aug. 10 to Dec. 31, 1904, nonrecording gage at site 250 ft downstream at different datum; Nov. 17, 1921, to June 25, 1934, nonrecording gage at site 250 ft downstream at datum 0.74 ft lower than present datum.

REMARKS.--Water-discharge records fair except estimated daily discharges, which are poor. Occasional runoff from drainage area of 2.97 mi^2 included in record.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	156	159	141	244	e466	e246	204	178	154	143	124
2	167	156	153	141	227	e434	e244	203	178	150	141	124
3	167	156	149	141	217	e419	e246	199	178	148	141	124
4	167	156	148	138	205	e406	e244	197	178	148	141	123
5	169	156	148	137	198	e392	e244	197	177	148	141	121
6	168	157	148	138	196	e383	239	197	174	148	141	122
7	167	173	148	141	190	e372	239	197	174	148	141	124
8	167	167	148	141	186	e369	235	197	171	145	141	124
9	167	164	148	141	185	e363	233	195	167	145	141	128
10	167	161	148	138	201	e356	229	193	167	145	143	126
11	164	160	148	141	204	e346	226	191	165	145	145	124
12	163	158	148	142	203	e333	226	187	163	145	145	124
13	163	154	145	145	e214	e325	220	184	160	143	144	124
14	163	152	145	177	e237	e322	218	182	158	141	140	121
15	163	152	145	202	e293	e320	228	182	170	145	134	121
16	164	149	148	197	e371	e309	244	182	176	148	130	120
17	167	148	148	196	e401	e297	240	182	169	148	130	119
18	167	147	148	188	e351	e288	239	180	165	148	130	121
19	164	145	148	182	e326	e283	239	211	161	148	129	119
20	163	143	148	177	e306	e273	239	211	160	148	127	118
21	163	141	145	168	e297	e275	237	224	161	148	127	118
22	163	141	145	167	e320	e266	228	226	169	147	127	118
23	163	141	144	163	e347	e270	224	215	167	145	127	118
24	163	145	142	160	e390	e258	219	208	165	145	127	118
25	163	175	141	157	e550	e255	215	195	161	148	127	116
26	161	194	138	159	e614	e248	213	190	159	148	126	117
27	156	182	141	156	e565	e248	212	186	156	150	127	117
28	156	171	141	153	e509	e244	206	182	156	152	127	116
29	156	161	141	162	---	e244	204	176	156	149	125	116
30	156	160	141	253	---	e258	204	174	156	148	125	115
31	156	---	141	264	---	e253	---	176	---	145	124	---
MEAN	164	157	146	165	305	319	229	194	166	147	134	121
MAX	169	194	159	264	614	466	246	226	178	154	145	128
MIN	156	141	138	137	185	244	204	174	156	141	124	115

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2001, BY WATER YEAR (WY)

MEAN	260	285	307	329	347	394	443	442	400	334	295	268
MAX	448	586	750	648	652	674	724	776	861	611	563	503
(WY)	1985	1985	1928	1928	1949	1975	1927	1927	1927	1945	1927	1928
MIN	111	111	113	108	144	152	180	143	140	127	122	120
(WY)	1957	1955	1956	1956	1981	1981	1936	1936	1936	1936	1936	1955

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1922 - 2001	
ANNUAL MEAN	205		187		342	
HIGHEST ANNUAL MEAN					566	1928
LOWEST ANNUAL MEAN					174	1956
HIGHEST DAILY MEAN	378	Feb 27	614	Feb 26	1010	Dec 3 1982
LOWEST DAILY MEAN	138	Dec 26	115	Sep 30	104	Nov 16 1956
ANNUAL SEVEN-DAY MINIMUM	141	Dec 25	116	Sep 24	105	Nov 13 1956
MAXIMUM PEAK FLOW	---		Unknown[a]		1770	Dec 3 1982
MAXIMUM PEAK STAGE	---		Unknown[a]		2.97	Dec 3 1982
INSTANTANEOUS LOW FLOW	---		113	Sep 30	104	Nov 16 1956
10 PERCENT EXCEEDS	292		268		543	
50 PERCENT EXCEEDS	185		163		322	
90 PERCENT EXCEEDS	148		127		169	

e Estimated
[a] Occurred sometime Feb. 25-27.

07071000 GREER SPRING AT GREER, MO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
DEC												
04...	1010	ENVIRONMENTAL	148	10.1	98	7.5	365	14.1	190	39.5	21.8	.44
MAR												
12...	1245	ENVIRONMENTAL	333	8.8	86	7.6	238	14.1	120	24.9	13.8	.58
MAY												
07...	1330	ENVIRONMENTAL	197	9.6	95	7.8	345	14.5	180	37.0	21.5	.92
AUG												
22...	1245	ENVIRONMENTAL	127	9.3	95	7.3	359	14.9	200	42.4	24.0	.26

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
DEC													
04...	1.9	177	177	215	0	2.0	E.1	2.4	<10	174	<.040	E.05	.438
MAR													
12...	2.6	112	110	134	0	3.9	<.2	3.1	<10	148	<.040	<.08	1.32
MAY													
07...	1.7	183	185	226	0	2.3	<.2	2.5	<10	210	<.041	<.08	.702
AUG													
22...	2.4	188	192	235	0	2.5	<.2	2.6	<10	204	<.040	<.08	.498

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
DEC													
04...	<.006	<.060	E.010	<.060	12	K2	K16	K14	7	20	.4	E3.39	<.10
MAR													
12...	E.003	<.060	<.020	<.060	<10	K5	K18	K26	39	92	.3	<8.00	<.10
MAY													
07...	E.003	<.060	E.013	<.060	<10	K7	K4	K15	9	17	.4	<8.00	<.11
AUG													
22...	<.006	<.060	<.020	<.060	<10	K2	K8	K1	7	14	.3	<8.00	<.10

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 µ GF, REC (µg/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (µg/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (µg/L) (46342)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)
DEC												
04...	<5.0	<10	<.08	<1	<3.0	<.10	1	<.002	<.004	<.002	<.005	<.007
MAR												
12...	<5.0	20	.12	<1	E2.5	<.10	3	<.002	<.004	<.002	<.005	<.007
MAY												
07...	<4.7	<10	<.08	<1	<3.2	<.01	2	<.002	.006	<.002	<.005	.025
AUG												
22...	<5.0	<10	<.08	<1	<3.0	<.01	<1	<.002	<.004	<.002	<.005	<.007

07071000 GREER SPRING AT GREER, MO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µg/L) (82673)	BUTYL-ATE, WATER, DISS, REC (µg/L) (04028)	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µg/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µg/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (µg/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µg/L) (04041)	DCPA WATER FLTRD 0.7µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)	DI-ELDRIN DIS-SOLVED (µg/L) (39381)	DISUL-FOTON WATER FLTRD 0.7µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (µg/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7µ GF, REC (µg/L) (82663)
DEC													
04...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.003	<.005	<.005	<.021	<.002	<.009
MAR													
12...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.021	<.002	<.009
MAY													
07...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.003	<.005	<.005	<.021	<.002	<.009
AUG													
22...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.021	<.002	<.009

DATE	ETHO-PROP WATER FLTRD 0.7 µ GF, REC (µg/L) (82672)	FONOFOS WATER DISS REC (µg/L) (04095)	LINDANE DIS-SOLVED (µg/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µg/L) (82666)	MALA-THION, DIS-SOLVED (µg/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7µ GF, REC (µg/L) (82684)	P,P' DDE DISSOLV (µg/L) (34653)	PARA-THION, DIS-SOLVED (µg/L) (39542)
DEC													
04...	<.005	<.003	<.004	<.035	<.027	<.050	<.080	<.013	<.006	<.002	<.007	<.003	<.007
MAR													
12...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
MAY													
07...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.006	<.006	<.002	<.007	<.003	<.007
AUG													
22...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007

DATE	PEB-ULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (µg/L) (04024)	PRO-PANIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 µ GF, REC (µg/L) (82685)	SI-MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER-BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)
DEC													
04...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
MAR													
12...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
MAY													
07...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
AUG													
22...	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017

DATE	THIO-ENCARB WATER FLTRD 0.7 µ GF, REC (µg/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µg/L) (82661)
DEC			
04...	<.005	<.002	<.009
MAR			
12...	<.005	<.002	<.009
MAY			
07...	<.005	<.002	<.009
AUG			
22...	<.005	<.002	<.009

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

07071500 ELEVEN POINT RIVER NEAR BARDLEY, MO

LOCATION.--Lat 36°38'55", long 91°12'03", in NE $^1/_4$ SE $^1/_4$ sec.17, T.23 N., R.2 W., Oregon County, Hydrologic Unit 11010011, on downstream side of right pier of main truss of bridge on U.S. Highway 160, 7.0 mi southwest of Bardley, 7.5 mi upstream from Fredericks Fork, and at mile 53.7.

DRAINAGE AREA.--793 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1921 to current year. October 1921 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 827: 1927-28, 1935. WSP 927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 410.84 ft above sea level. Prior to June 26, 1934, nonrecording gage at site 100 ft upstream at datum 0.06 ft higher; June 26, 1934, to Oct. 19, 1939, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records good. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 19.7 ft, August 1915, from floodmarks, discharge, 44,000 ft^3/s, from rating curve extended above 25,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236	234	250	218	383	934	382	320	284	240	212	195
2	236	241	245	216	349	883	379	318	282	235	209	195
3	235	233	238	215	330	831	380	314	279	231	208	192
4	235	232	235	217	317	788	379	310	277	229	209	190
5	239	231	234	221	302	734	378	308	275	238	206	189
6	246	261	232	220	294	687	379	310	273	227	203	194
7	232	300	232	223	287	652	379	314	271	225	206	197
8	229	282	231	225	282	623	375	309	268	224	216	205
9	229	265	230	226	289	590	370	303	264	223	215	244
10	230	254	234	226	303	569	364	297	261	224	250	250
11	230	244	238	229	320	552	363	298	258	222	258	223
12	230	245	231	229	317	544	360	294	255	228	229	212
13	231	249	247	233	330	529	352	287	253	224	225	207
14	232	241	236	262	445	511	345	285	252	219	215	204
15	233	236	232	308	625	511	364	284	281	218	210	201
16	249	234	236	308	894	502	382	284	271	217	208	199
17	254	229	233	294	975	486	381	282	265	222	205	200
18	243	226	233	281	837	469	371	291	256	216	206	203
19	237	226	230	274	747	459	367	308	251	219	202	216
20	234	224	229	264	686	451	367	315	247	229	199	202
21	233	221	228	257	630	442	364	319	255	219	198	200
22	232	222	225	251	642	432	354	325	257	215	196	193
23	232	223	223	248	686	424	360	317	254	216	196	196
24	231	241	223	245	731	414	354	304	248	233	196	192
25	231	297	219	240	1220	403	346	294	244	224	195	187
26	232	338	219	239	1220	394	341	288	241	222	205	186
27	233	311	219	237	1090	386	337	285	240	220	207	187
28	232	284	223	233	994	383	333	281	240	239	196	186
29	232	268	221	270	---	384	328	275	256	228	195	184
30	245	256	222	385	---	393	325	280	247	221	195	184
31	236	---	220	422	---	388	---	292	---	216	200	---
MEAN	235	252	231	255	590	540	362	300	260	225	209	200
MAX	254	338	250	422	1220	934	382	325	284	240	258	250
MIN	229	221	219	215	282	383	325	275	240	215	195	184
IN.	.34	.35	.34	.37	.78	.79	.51	.44	.37	.33	.30	.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2001, BY WATER YEAR (WY)

MEAN	425	598	711	790	836	1060	1304	1144	880	605	484	432
MAX	1291	2082	4048	3007	2223	3556	5037	2952	3107	1559	1354	1183
(WY)	1985	1994	1983	1985	1949	1945	1927	1973	1928	1951	1927	1975
MIN	168	176	170	159	224	264	340	266	245	213	199	181
(WY)	1957	1957	1956	1956	1963	1981	1981	1936	1936	1936	1936	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1922 - 2001	
ANNUAL MEAN	343		303		772	
HIGHEST ANNUAL MEAN					1782	1985
LOWEST ANNUAL MEAN					303	2001
HIGHEST DAILY MEAN	1180	Feb 27	1220	Feb 25	26800	Apr 14 1927
LOWEST DAILY MEAN	219	Dec 25-27	184	Sep 29,30	155	Jan 26 1956
ANNUAL SEVEN-DAY MINIMUM	220	Dec 25	187	Sep 24	157	Jan 21 1956
MAXIMUM PEAK FLOW	---		1340	Feb 25	49800	Dec 3 1982
MAXIMUM PEAK STAGE	---		3.66	Feb 25	21.64	Dec 3 1982
INSTANTANEOUS LOW FLOW	---		183	Sep 25-30	152	Jan 27 1956
ANNUAL RUNOFF (INCHES)	5.90		5.19		13.22	
10 PERCENT EXCEEDS	545		436		1420	
50 PERCENT EXCEEDS	276		245		551	
90 PERCENT EXCEEDS	232		205		264	

07071500 ELEVEN POINT RIVER NEAR BARDLEY, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
15...	1100	BLANK	--	--	--	--	--	--	--	.05	E.007	<.09
15...	1115	ENVIRONMENTAL	235	10.7	91	8.1	358	8.6	200	39.8	23.9	.50
JAN												
02...	1550	ENVIRONMENTAL	216	14.1	104	8.1	347	4.1	--	--	--	--
MAR												
12...	1545	ENVIRONMENTAL	540	11.2	117	8.2	265	17.5	--	--	--	--
MAY												
09...	1045	ENVIRONMENTAL	304	9.5	99	8.0	349	17.7	190	38.4	22.4	.70
JUL												
09...	1215	ENVIRONMENTAL	222	9.1	112	8.1	358	24.8	--	--	--	--
SEP												
11...	1210	ENVIRONMENTAL	229	9.0	101	8.0	362	20.1	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
15...	.5	--	--	--	--	<.1	<.2	.1	<10	<10	<.041	--	<.047
15...	1.8	191	193	236	0	2.0	<.2	2.2	<10	204	<.041	1.0	.282
JAN													
02...	--	191	191	234	0	--	--	--	--	--	.012	<.20	.290
MAR													
12...	--	125	125	152	0	--	--	--	--	--	<.041	<.08	.943
MAY													
09...	1.7	177	177	219	0	2.8	<.2	2.5	<10	200	<.041	.10	.348
JUL													
09...	--	188	189	231	0	--	--	--	--	--	<.040	.14	.277
SEP													
11...	--	185	185	226	0	--	--	--	--	--	<.040	.12	.210

07071500 ELEVEN POINT RIVER NEAR BARDLEY, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
15...	<.006	<.060	<.018	--	<10	--	--	--	4	8	<.2	<8.00	<.11
15...	<.006	<.060	<.018	.197	<10	K2	K6	K16	5	15	.3	<8.00	<.11
JAN													
02...	<.010	<.020	<.010	<.020	--	K1	K2	K1	--	--	--	--	--
MAR													
12...	E.003	<.060	<.018	<.060	--	K1	K8	K6	--	--	--	--	--
MAY													
09...	.006	<.060	<.018	<.060	<10	K4	K6	K4	10	22	.4	<8.00	<.11
JUL													
09...	E.003	<.060	<.020	<.060	--	K2	K9	28	--	--	--	--	--
SEP													
11...	<.006	<.060	<.020	<.060	--	K5	K9	K11	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV								
15...	<4.7	<10	<.08	<1	<3.2	<.14	<1	<1
15...	<4.7	M	<.08	<1	E2.3	<.14	--	1
JAN								
02...	--	--	--	--	--	--	--	--
MAR								
12...	--	--	--	--	--	--	--	--
MAY								
09...	<4.7	20	E.07	<1	6.8	<.01	--	3
JUL								
09...	--	--	--	--	--	--	--	--
SEP								
11...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

07186000 SPRING RIVER NEAR WACO, MO

LOCATION.--Lat 37°14'44", long 94°33'58", on line between SE $^1/_2$ sec.7 and NE $^1/_2$ sec.18, T.29 N., R.33 W., Jasper County, Hydrologic Unit 11070207, on downstream side of left pier of county highway bridge, 0.8 mi downstream from Blackberry Creek, 1.5 mi east of Waco, and 47.6 mi upstream from mouth.

DRAINAGE AREA.--1,164 mi^2.

PERIOD OF RECORD.--April 1924 to current year.

REVISED RECORDS.--WSP 1117: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 833.23 ft above sea level. Prior to Feb. 23, 1935, nonrecording gage at same site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	89	104	e79	1820	1690	397	241	655	297	224	e83
2	73	106	100	e82	919	1490	399	228	359	238	183	e82
3	72	175	96	e82	739	1350	566	218	3220	212	e155	e78
4	69	240	93	e83	656	1220	869	327	5980	193	e140	e75
5	67	201	90	e83	596	1100	520	244	3440	179	e127	e74
6	68	168	89	85	544	1010	444	228	1770	e168	e118	e74
7	64	193	90	89	503	938	404	226	579	e159	e112	e73
8	62	189	87	104	474	886	375	218	401	e149	e116	e87
9	61	208	85	127	2680	833	355	214	336	e139	e124	e107
10	63	286	83	152	2130	788	340	213	292	e131	e123	e115
11	64	300	78	176	1050	756	372	534	255	e126	e116	e101
12	64	267	e80	233	694	734	538	1730	223	e122	e108	e92
13	65	227	e86	321	1540	714	490	948	203	e119	e105	e87
14	64	193	e87	348	3680	671	402	401	531	e116	e100	e82
15	71	176	83	388	2800	683	1720	291	3060	e115	e95	e80
16	186	161	81	351	1770	1350	2260	235	2540	e119	e93	e81
17	810	149	80	312	1200	1440	1050	207	813	e136	e93	e86
18	741	137	e88	279	882	952	612	723	346	e211	e93	e93
19	302	128	e103	256	772	769	506	2780	253	e157	e90	e94
20	180	120	e98	240	717	691	452	1790	1200	e146	e85	e93
21	136	116	e94	225	660	641	416	638	3880	e135	e80	e92
22	117	110	e90	e212	713	603	386	532	2840	e126	e78	e87
23	108	108	e88	202	1240	574	378	418	1300	e119	e80	e83
24	101	108	e86	194	13500	541	371	347	577	e116	e86	e80
25	95	106	e85	186	18700	505	356	307	401	e120	e87	e77
26	91	104	e84	180	15000	479	326	274	326	158	e84	e81
27	99	103	e83	172	6540	461	312	247	278	1310	e83	e104
28	118	109	e82	304	2220	446	289	228	706	2090	e77	e102
29	115	110	e81	9830	---	435	272	217	959	1540	e81	e102
30	99	107	e78	8470	---	425	253	231	442	654	e87	e108
31	93	---	e77	4520	---	412	---	263	---	324	e87	---
MEAN	142	160	87.4	915	3026	825	548	506	1272	320	107	88.4
MAX	810	300	104	9830	18700	1690	2260	2780	5980	2090	224	115
MIN	61	89	77	79	474	412	253	207	203	115	77	73
IN.	.14	.15	.09	.91	2.71	.82	.53	.50	1.22	.32	.11	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2001, BY WATER YEAR (WY)

MEAN	665	954	715	715	943	1221	1474	1548	1401	713	432	561
MAX	6997	6726	4704	3222	6372	5809	7542	11640	5521	4323	7812	10260
(WY)	1942	1986	1993	1973	1985	1973	1927	1943	1928	1976	1927	1993
MIN	21.0	30.5	33.3	29.7	31.0	33.6	38.2	120	73.4	15.2	7.71	22.0
(WY)	1957	1954	1964	1964	1964	1954	1956	1932	1954	1954	1954	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1924 - 2001	
ANNUAL MEAN	428		649		938	
HIGHEST ANNUAL MEAN					3093	1993
LOWEST ANNUAL MEAN					61.4	1954
HIGHEST DAILY MEAN	10600	Jul 23	18700	Feb 25	108000	Sep 25 1993
LOWEST DAILY MEAN	61	Oct 9	61	Oct 9	4.5	Aug 28 1954
ANNUAL SEVEN-DAY MINIMUM	63	Oct 7	63	Oct 7	5.0	Sep 2 1954
MAXIMUM PEAK FLOW	---		19300	Feb 25	151000[a]	Sep 26 1993
MAXIMUM PEAK STAGE	---		19.90	Feb 25	34.06	Sep 26 1993
INSTANTANEOUS LOW FLOW	---		61	Oct 8-10	4.2	Jul 28 1954
ANNUAL RUNOFF (INCHES)	5.01		7.57		10.95	
10 PERCENT EXCEEDS	770		1300		1830	
50 PERCENT EXCEEDS	182		207		301	
90 PERCENT EXCEEDS	81		81		66	

e Estimated
[a] From rating curve extended above 85,000 ft^3/s.

07186480 CENTER CREEK NEAR SMITHFIELD, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°09'20", long 94°36'10", NW $^1/_4$ SE $^1/_4$ NE $^1/_4$ sec.14, T.28 N., R.34 W., Jasper County, Hydrologic Unit 11070207. Sampling site is located approximately 1.0 mi above the mouth of Center Creek and 1.0 mi south of Smithfield on county road.

DRAINAGE AREA.--303 mi^2.

PERIOD OF RECORD.--October 1968 to July 1975, July 1977 to June 1989, April 1993 to August 1995, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
28...	1245	ENVIRONMENTAL	49	13.5	113	8.2	446	7.7	210	76.2	4.32	1.97
28...	1245	BLANK	--	--	--	--	--	--	--	.02	<.008	E.05
JAN												
17...	0730	BLANK	--	--	--	--	--	--	--	--	--	--
17...	0800	ENVIRONMENTAL	86	12.4	92	7.9	402	3.2	--	--	--	--
FEB												
05...	1225	ENVIRONMENTAL	298	14.1	115	7.8	362	7.2	--	--	--	--
05...	1225	BLANK	--	--	--	--	--	--	--	--	--	--
MAR												
20...	1250	BLANK	--	--	--	--	--	--	--	--	--	--
20...	1310	ENVIRONMENTAL	261	13.5	123	8.1	341	11.3	--	--	--	--
APR												
17...	0830	BLANK	--	--	--	--	--	--	--	--	--	--
17...	0900	ENVIRONMENTAL	276	9.9	93	7.8	363	12.8	--	--	--	--
MAY												
22...	1300	BLANK	--	--	--	--	--	--	--	.08	<.008	<.09
22...	1415	ENVIRONMENTAL	137	9.9	110	8.1	368	20.4	180	67.0	3.37	3.15
JUN												
12...	1530	ENVIRONMENTAL	108	6.8	89	7.5	416	27.4	--	--	--	--
12...	1531	BLANK	--	--	--	--	--	--	--	--	--	--
SEP												
17...	1640	ENVIRONMENTAL	39	9.2	114	8.0	399	24.4	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
28...	9.2	145	142	174	0	11.4	.2	51.9	<10	272	<.041	.14	2.83
28...	<.1	--	--	--	--	--	<.2	.3	<10	<10	<.041	<.08	<.047
JAN													
17...	--	--	--	--	--	--	--	--	--	--	<.041	<.08	<.047
17...	--	143	143	174	0	--	--	--	--	--	<.041	.14	3.21
FEB													
05...	--	118	117	142	0	--	--	--	--	--	E.027	.23	3.67
05...	--	--	--	--	--	--	--	--	--	--	<.041	<.08	<.047
MAR													
20...	--	--	--	--	--	--	--	--	--	--	<.041	<.08	<.047
20...	--	120	120	146	0	--	--	--	--	--	<.041	.12	2.90
APR													
17...	--	--	--	--	--	--	--	--	--	--	<.041	<.08	<.047
17...	--	118	117	143	0	--	--	--	--	--	E.022	.29	2.19
MAY													
22...	.4	--	--	--	--	.4	<.2	E.1	<10	<10	<.040	<.08	<.050
22...	5.5	117	117	142	0	9.0	.2	40.8	27	<10	<.040	.42	2.30
JUN													
12...	--	144	145	177	0	--	--	--	--	--	<.040	.27	2.15
12...	--	--	--	--	--	--	--	--	--	--	<.040	<.08	E.026
SEP													
17...	--	135	133	162	0	--	--	--	--	--	<.040	.18	1.84

07186480 CENTER CREEK NEAR SMITHFIELD, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
28...	E.005	.082	.082	<.060	<10	K1	K15	K13	10	37	.3	<8.00	1.10
28...	<.006	<.060	<.018	<.060	<10	--	--	--	4	9	<.2	<8.00	<.11
JAN													
17...	<.006	<.060	<.018	<.060	--	--	--	--	--	--	--	--	--
17...	.015	.073	.067	.072	--	160	170	120	--	--	--	--	--
FEB													
05...	.013	E.056	.047	.067	--	20	60	82	--	--	--	--	--
05...	<.006	<.060	<.018	<.060	--	--	--	--	--	--	--	--	--
MAR													
20...	<.006	<.060	<.018	<.060	--	--	--	--	--	--	--	--	--
20...	.007	E.033	.031	E.047	--	K1	K5	K20	--	--	--	--	--
APR													
17...	<.006	<.060	<.018	<.060	--	--	--	--	--	--	--	--	--
17...	.011	E.054	.042	.070	--	K330	K340	91	--	--	--	--	--
MAY													
22...	<.006	<.060	<.020	<.060	<10	--	--	--	8	8	<.2	<8.00	<.10
22...	.015	.163	.154	.217	<10	98	80	170	167	534	.6	<8.00	1.90
JUN													
12...	.006	.081	.070	.113	--	K4	33	39	--	--	--	--	--
12...	<.006	<.060	<.020	<.060	--	--	--	--	--	--	--	--	--
SEP													
17...	.007	.180	.167	.196	--	20	K120	48	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV								
28...	<4.7	10	.58	2	57.7	<.14	327	318
28...	<4.7	<10	E.06	<1	<3.2	<.14	3	4
JAN								
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
FEB								
05...	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--
MAR								
20...	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--
APR								
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
MAY								
22...	<5.0	<10	<.08	<1	<3.0	--	2	1
22...	<5.0	150	5.75	18	63.3	<.01	126	363
JUN								
12...	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--
SEP								
17...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

07186600 TURKEY CREEK NEAR JOPLIN, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°07'15", long 94°34'55", NW $^1/_4$ SW $^1/_4$ sec.25, T.28 N., R.34 W., Jasper County, Hydrologic Unit 11070207. Sampling site is located approximately 3.0 mi northwest of Joplin on County Highway P, 2.5 mi upstream from the mouth of Turkey Creek.

DRAINAGE AREA.--41.8 mi^2.

PERIOD OF RECORD.--August 1963 to September 1977, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
29...	0730	ENVIRONMENTAL	15	8.6	74.1	7.7	666	9.6	245	87.9	6.20	11.3
JAN												
17...	0930	ENVIRONMENTAL	26	10.5	84.5	7.7	730	6.4	--	--	--	--
FEB												
05...	1355	ENVIRONMENTAL	29	11.4	97.0	7.7	547	8.9	--	--	--	--
MAR												
20...	1445	ENVIRONMENTAL	28	11.6	110	7.9	538	13.1	--	--	--	--
APR												
17...	1045	ENVIRONMENTAL	31	8.6	81.0	7.5	488	13.0	--	--	--	--
MAY												
23...	0745	ENVIRONMENTAL	26	7.2	73.5	7.8	556	16.3	228	82.7	5.16	4.73
JUN												
12...	1440	ENVIRONMENTAL	23	8.4	107	7.4	524	25.5	--	--	--	--
SEP												
17...	1535	ENVIRONMENTAL	26	7.2	88.0	7.9	490	23.4	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
29...	33.0	157	158	193	0	42.0	.3	89.1	<10	412	<.041	.66	6.12
JAN													
17...	--	131	131	160	0	--	--	--	--	--	<.041	3.8	4.72
FEB													
05...	--	125	126	153	0	--	--	--	--	--	<.041	1.2	4.34
MAR													
20...	--	131	132	161	0	--	--	--	--	--	<.041	1.0	4.68
APR													
17...	--	123	123	150	0	--	--	--	--	--	<.041	.90	3.32
MAY													
23...	20.8	138	138	168	0	24.0	.2	83.8	<10	352	<.040	.60	2.68
JUN													
12...	--	152	154	188	0	--	--	--	--	--	<.040	.92	2.49
SEP													
17...	--	113	115	140	0	--	--	--	--	--	<.040	.99	3.39

07186600 TURKEY CREEK NEAR JOPLIN, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
29...	<.006	1.19	1.07	1.21	<10	280	900	93	6	17	.8	<8.00	2.01
JAN													
17...	<.006	1.09	.995	1.02	--	160	240	71	--	--	--	--	--
FEB													
05...	.036	.536	.510	.577	--	30	K16	24	--	--	--	--	--
MAR													
20...	E.004	.562	.528	.596	--	K1	26	K7	--	--	--	--	--
APR													
17...	E.005	.391	.365	.409	--	460	450	130	--	--	--	--	--
MAY													
23...	E.005	.425	.413	.457	11	540	K1000	900	11	43	.6	<8.00	1.93
JUN													
12...	E.005	.479	.447	.464	--	36	200	98	--	--	--	--	--
SEP													
17...	.010	.656	.634	.712	--	K5800	K6600	K2200	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV								
29...	<4.7	20	1.22	3	6.5	<.14	377	354
JAN								
17...	--	--	--	--	--	--	--	--
FEB								
05...	--	--	--	--	--	--	--	--
MAR								
20...	--	--	--	--	--	--	--	--
APR								
17...	--	--	--	--	--	--	--	--
MAY								
23...	<5.0	20	1.06	7	16.5	.01	275	356
JUN								
12...	--	--	--	--	--	--	--	--
SEP								
17...	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

07187000 SHOAL CREEK ABOVE JOPLIN, MO

LOCATION.--Lat 37°01'23", long 94°30'58", in SE $^1/_4$ NE $^1/_4$ NE $^1/_4$ sec.34, T.27 N., R.33 W., Newton County, Hydrologic Unit 11070207, on right bank 250 ft upstream from mouth of Spring Creek, 1,400 ft downstream from bridge on State Highway 86, 0.5 mi south of city limits of Joplin, and 13.2 mi above mouth.

DRAINAGE AREA.--427 mi^2.

PERIOD OF RECORD.--October 1941 to current year.

REVISED RECORDS.--WSP 1117: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 886.87 ft above sea level. Prior to July 21, 1966, water-stage recorder at site 1.8 mi upstream, at datum 15.5 ft higher; Apr. 21, 1924, to Nov. 6, 1941, records were collected at site about 3 mi downstream, datum unknown.

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	108	115	101	534	991	280	195	180	285	138	99
2	107	156	113	e102	476	883	286	191	180	242	130	92
3	105	153	111	104	432	796	284	188	302	214	124	90
4	104	131	108	106	401	729	273	184	610	196	121	87
5	107	121	106	102	372	663	265	184	377	184	118	84
6	113	132	108	105	348	620	260	182	298	175	112	87
7	107	140	107	112	329	586	254	185	258	164	107	87
8	102	152	107	118	312	557	247	180	256	154	106	105
9	98	159	104	126	317	532	243	172	267	146	115	137
10	98	161	103	131	318	509	239	170	230	137	112	132
11	99	153	103	140	309	498	298	195	209	135	107	114
12	98	145	107	151	303	485	298	210	194	130	118	103
13	98	138	116	168	318	464	273	194	180	129	124	99
14	95	131	117	190	339	445	261	175	183	124	115	95
15	108	127	114	200	365	447	293	166	214	121	106	94
16	126	123	111	201	394	448	294	161	200	135	107	93
17	119	120	e108	197	404	420	275	157	176	151	106	99
18	109	118	e117	193	399	400	265	323	163	148	104	110
19	105	115	e133	188	388	387	258	390	156	135	101	113
20	101	111	e127	182	377	377	254	276	176	131	97	108
21	99	108	e122	175	369	367	248	334	232	126	93	106
22	101	107	e118	169	382	360	241	271	253	122	91	102
23	104	110	e115	166	398	351	259	241	219	117	91	98
24	105	113	e112	164	2930	340	241	222	197	113	99	93
25	100	118	e109	159	6120	327	229	209	179	117	100	90
26	100	125	108	157	2100	317	223	197	168	131	98	88
27	105	132	107	154	1430	310	218	186	160	173	96	89
28	109	125	105	171	1150	306	213	179	153	245	90	89
29	107	121	102	632	---	301	207	174	680	201	94	88
30	103	118	e100	716	---	297	200	197	453	167	100	86
31	101	---	98	613	---	290	---	195	---	150	103	---
MEAN	105	129	111	200	797	478	256	209	250	158	107	98.6
MAX	126	161	133	716	6120	991	298	390	680	285	138	137
MIN	95	107	98	101	303	290	200	157	153	113	90	84
IN.	.28	.34	.30	.54	1.94	1.29	.67	.56	.65	.43	.29	.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2001, BY WATER YEAR (WY)

MEAN	293	406	359	330	391	565	655	703	574	350	215	252
MAX	1709	2034	1993	1145	1233	1961	3281	4691	2470	2049	2337	1872
(WY)	1960	1986	1993	1973	1968	1973	1945	1943	1995	1993	1950	1993
MIN	48.3	55.4	57.3	54.9	61.7	57.9	56.0	121	81.4	47.0	37.1	47.0
(WY)	1957	1964	1964	1964	1964	1954	1954	1963	1954	1954	1954	1953

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1942 - 2001	
ANNUAL MEAN	267		238		424	
HIGHEST ANNUAL MEAN					1221	1993
LOWEST ANNUAL MEAN					77.8	1954
HIGHEST DAILY MEAN	5210	Jun 21	6120	Feb 25	36700	May 18 1943
LOWEST DAILY MEAN	95	Oct 14	84	Sep 5	15	Sep 7 1954
ANNUAL SEVEN-DAY MINIMUM	98	Oct 8	89	Sep 24	16	Sep 1 1954
MAXIMUM PEAK FLOW	---		6890	Feb 25	62100	May 18 1943
MAXIMUM PEAK STAGE	---		9.48	Feb 25	16.80[a]	May 18 1943
INSTANTANEOUS LOW FLOW	---		79	Sep 7	12	Sep 7 1954
ANNUAL RUNOFF (INCHES)	8.51		7.55		13.50	
10 PERCENT EXCEEDS	405		396		872	
50 PERCENT EXCEEDS	174		154		236	
90 PERCENT EXCEEDS	107		99		88	

e Estimated
[a] Former site and datum.

07188653 BIG SUGAR CREEK NEAR POWELL, MO

LOCATION.--Lat 36°36'57", long 94°10'57", NW$^1/_4$ NW$^1/_4$ NE $^1/_4$ sec. 36, T.22 N., R.33 W., McDonald County, Hydrologic Unit 11070208, on left bank of county road, 1.0 mi west of Powell.

DRAINAGE AREA.--141 mi^2.

PERIOD OF RECORD.--May 25, 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records good. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	21	63	38	233	298	49	28	60	49	15	9.0
2	8.6	20	57	36	189	254	47	27	60	45	14	7.3
3	8.3	18	51	34	164	220	46	27	63	44	13	7.0
4	8.0	17	47	33	146	192	45	25	60	43	12	6.5
5	7.7	17	42	32	131	169	44	25	54	43	11	6.0
6	7.8	33	40	34	121	152	42	25	49	41	10	6.1
7	7.4	48	37	44	112	140	40	27	45	38	9.7	5.7
8	7.1	54	35	57	104	130	39	25	47	35	10	10
9	7.5	77	34	63	119	121	38	23	82	34	9.8	24
10	8.0	75	33	65	127	113	36	22	63	32	9.0	23
11	8.4	62	33	74	121	107	40	35	54	30	8.8	16
12	8.9	56	44	112	116	103	38	65	47	28	10	13
13	9.6	51	53	142	118	96	37	50	43	28	9.3	12
14	9.3	45	47	163	134	92	35	42	42	26	8.8	11
15	10	41	43	158	397	96	41	35	65	24	8.6	9.9
16	13	38	64	138	536	95	39	32	62	30	9.9	10
17	13	36	96	121	399	89	38	34	53	27	10	11
18	12	34	98	110	315	85	37	64	46	23	10	14
19	11	32	88	102	264	82	36	71	41	21	8.8	14
20	11	30	79	95	226	78	36	62	39	19	8.1	12
21	11	28	73	86	198	75	36	67	55	17	7.5	11
22	12	27	64	80	178	72	35	66	75	16	7.1	11
23	13	30	60	74	187	70	37	61	62	15	6.7	10
24	12	38	56	70	3570	66	35	55	53	15	7.0	9.9
25	11	163	53	64	1490	63	33	50	46	19	7.9	9.9
26	13	145	55	60	684	61	33	46	42	15	8.5	9.0
27	32	115	51	56	473	58	32	42	40	16	8.0	8.7
28	42	95	46	59	363	56	31	40	43	17	7.0	8.7
29	35	81	44	311	---	55	30	38	56	19	7.5	8.8
30	28	70	42	440	---	54	29	52	52	18	11	8.7
31	23	---	39	309	---	52	---	66	---	17	11	---
MEAN	13.5	53.2	53.8	105	401	109	37.8	42.8	53.3	27.2	9.52	10.8
MAX	42	163	98	440	3570	298	49	71	82	49	15	24
MIN	7.1	17	33	32	104	52	29	22	39	15	6.7	5.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	13.5	53.2	53.8	105	401	109	37.8	42.8	306	82.8	25.0	10.2
MAX	13.5	53.2	53.8	105	401	109	37.8	42.8	558	138	40.5	10.8
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000	2000	2001
MIN	13.5	53.2	53.8	105	401	109	37.8	42.8	53.3	27.2	9.52	9.66
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2000

SUMMARY STATISTICS	MAY 25-SEP 30 2000		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL MEAN			74.2		74.2	
HIGHEST ANNUAL MEAN					74.2	2001
LOWEST ANNUAL MEAN					74.2	2001
HIGHEST DAILY MEAN	6020	Jun 17	3570	Feb 24	6020	Jun 17 2000
LOWEST DAILY MEAN	5.1	Sep 20,21	5.7	Sep 7	5.1	Sep 20 2000
ANNUAL SEVEN-DAY MINIMUM	5.6	Sep 16	6.8	Sep 1	5.6	Sep 16 2000
MAXIMUM PEAK FLOW	---		5950	Feb 24	15500	Jun 17 2000
MAXIMUM PEAK STAGE	---		12.00	Feb 24	18.95	Jun 17 2000
INSTANTANEOUS LOW FLOW	---		5.0	Sep 7	4.5	Sep 19 2000
10 PERCENT EXCEEDS	172		130		160	
50 PERCENT EXCEEDS	38		40		40	
90 PERCENT EXCEEDS	8.0		9.0		8.8	

07188885 INDIAN CREEK NEAR LANAGAN, MO

LOCATION.--Lat 36°35'57", long 94°26'58", Nw 1/4 Nw 1/4 NE 1/4 Sec. 36, T. 22 N., R.33 W., McDonald County, Hydrologic Unit 11070208, on downstream side of Highway EE bridge, 0.5 mi southeast of Lanagan.

DRAINAGE AREA.--239 mi^2.

PERIOD OF RECORD.--May 24, 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	76	54	52	470	669	122	75	63	e164	43	32
2	43	118	51	51	385	585	120	73	69	147	41	30
3	41	96	49	50	325	516	119	72	1380	143	39	29
4	41	75	48	e50	281	460	116	70	555	125	38	29
5	40	64	47	e51	247	410	113	71	352	115	37	28
6	40	78	46	55	222	374	111	70	256	105	36	28
7	38	115	46	65	202	345	108	72	193	94	36	28
8	37	112	45	77	187	322	105	68	153	85	36	33
9	38	120	46	87	196	300	103	65	152	77	36	43
10	39	117	47	96	204	281	102	64	126	73	35	41
11	38	104	47	106	205	266	110	66	108	70	35	37
12	38	91	47	126	205	255	108	77	94	67	36	34
13	38	80	e48	156	209	238	101	70	82	66	45	32
14	38	70	e50	180	226	225	98	66	87	62	42	31
15	41	63	51	180	278	221	105	63	146	59	38	30
16	44	58	57	166	348	214	103	60	123	81	40	30
17	45	54	67	151	360	199	100	e61	104	81	37	38
18	45	51	73	138	335	190	97	e76	90	68	35	43
19	47	48	e75	126	312	182	96	e83	80	62	35	41
20	48	46	e72	114	290	176	96	e78	78	57	33	37
21	e46	45	e68	104	267	170	95	e79	127	54	32	35
22	e45	44	e63	97	251	165	93	73	180	51	30	34
23	49	45	62	91	261	159	94	64	158	49	29	33
24	50	49	59	86	e5800	152	91	61	134	47	30	31
25	e50	59	e58	82	e3870	145	86	59	126	46	32	30
26	e56	65	59	80	1340	141	84	57	e118	45	34	30
27	e65	66	58	77	961	137	83	52	e118	46	34	29
28	e71	65	56	82	781	134	81	e51	e118	55	32	29
29	e72	62	55	481	---	132	79	55	e129	54	30	28
30	e70	58	54	787	---	130	76	64	e206	49	31	28
31	e66	---	53	595	---	126	---	67	---	46	33	---
MEAN	47.2	73.1	55.2	150	679	259	99.8	67.2	190	75.6	35.5	32.7
MAX	72	120	75	787	5800	669	122	83	1380	164	45	43
MIN	37	44	45	50	187	126	76	51	63	45	29	28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	47.2	73.1	55.2	150	679	259	99.8	67.2	354	145	49.7	37.7
MAX	47.2	73.1	55.2	150	679	259	99.8	67.2	519	215	64.0	42.8
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000	2000	2000
MIN	47.2	73.1	55.2	150	679	259	99.8	67.2	190	75.6	35.5	32.7
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR MAY 24-SEP 30 2000		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL MEAN			143		143	
HIGHEST ANNUAL MEAN					143	2001
LOWEST ANNUAL MEAN					143	2001
HIGHEST DAILY MEAN	2530	Jun 21	5800	Feb 24	5800	Feb 24 2001
LOWEST DAILY MEAN	33	Sep 20-22	28	Sep 5-7,29,30	28	Sep 5-7,29,30 2001
ANNUAL SEVEN-DAY MINIMUM	34	Sep 16	29	Sep 1	29	Sep 1 2001
MAXIMUM PEAK FLOW	---		Unknown	Feb 24	Unknown	Feb 24 2001
MAXIMUM PEAK STAGE	---		10.80	Feb 24	10.80	Feb 24 2001
INSTANTANEOUS LOW FLOW	---		27	Sep 7	27	Sep 7 2001
10 PERCENT EXCEEDS	411		253		316	
50 PERCENT EXCEEDS	64		70		73	
90 PERCENT EXCEEDS	40		35		36	

e Estimated

07188950 PATTERSON CREEK NEAR TIFF CITY, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°39'45", long 94°31'54", in SW $^1/_4$ SE $^1/_4$ SE $^1/_4$ sec.6, T.22 N., R.33 W., McDonald County, Hydrologic Unit 11070208. Sampling site located 6.0 mi east of Tiff City, approximately 2.7 mi south of State Highway 43 on County Road 7628.

DRAINAGE AREA.--9.73 mi^2.

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
NOV												
28...	0955	ENVIRONMENTAL	2.2	9.9	88	7.8	323	10.4	150	57.8	1.71	1.80
28...	0956	REPLICATE	--	--	--	--	--	--	--	--	--	--
JAN												
16...	1430	ENVIRONMENTAL	9.3	12.0	103	7.9	306	9.1	--	--	--	--
MAR												
20...	0950	ENVIRONMENTAL	53	11.9	108	7.9	279	11.1	--	--	--	--
MAY												
22...	1010	ENVIRONMENTAL	3.8	11.3	113	7.8	311	15.4	--	--	--	--
SEP												
18...	0940	ENVIRONMENTAL	2.4	5.8	65	7.4	322	18.8	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
NOV													
28...	6.0	136	136	165	0	7.7	<.2	4.6	<10	192	<.041	.14	3.00
28...	--	--	--	--	--	--	--	--	--	--	<.041	.14	3.44
JAN													
16...	--	113	113	138	0	--	--	--	--	--	<.041	.18	4.91
MAR													
20...	--	114	115	140	0	--	--	--	--	--	<.041	.11	4.34
MAY													
22...	--	123	123	150	0	--	--	--	--	--	<.040	.10	3.28
SEP													
18...	--	137	138	168	0	--	--	--	--	--	<.040	.12	2.92

07188950 PATTERSON CREEK NEAR TIFF CITY, MO--Continued
(Ambient Water-Quality Monitoring Network)

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV													
28...	.006	<.060	E.010	.103	<10	K3	36	45	8	41	.2	<8.00	<.11
28...	.008	<.060	E.009	--	--	--	--	--	--	--	--	--	--
JAN													
16...	E.005	<.060	E.011	<.060	--	K4	21	53	--	--	--	--	--
MAR													
20...	E.004	<.060	E.016	E.035	--	K13	44	K16	--	--	--	--	--
MAY													
22...	.011	<.060	<.020	<.060	--	48	35	150	--	--	--	--	--
SEP													
18...	.009	<.060	E.017	<.060	--	K360	K300	K300	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
NOV							
28...	<4.7	30	<.08	<1	8.0	<.14	2
28...	--	--	--	--	--	--	--
JAN							
16...	--	--	--	--	--	--	--
MAR							
20...	--	--	--	--	--	--	--
MAY							
22...	--	--	--	--	--	--	--
SEP							
18...	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

07189000 ELK RIVER NEAR TIFF CITY, MO

LOCATION.--Lat 36°37'53", long 94°35'12", in NE $^1/_4$ NE $^1/_4$ sec.22, T.22 N., R.34 W., McDonald County, Hydrologic Unit 11070208, near right abutment of bridge on State Highway 43, 0.8 mi downstream from Blackfoot Branch, 2.8 mi upstream from Buffalo Creek, 3.0 mi southeast of Tiff City, and at mile 15.8.

DRAINAGE AREA.--872 mi^2.

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 927: 1940. WSP 1117: Drainage area.

GAGE.--Water stage recorder. Datum of gage is 750.61 ft above sea level (levels by U.S. Army Corps of Engineers). Sept. 6, 1960 to Aug. 25, 1961, at site 100 ft downstream.

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	189	344	e230	1810	2440	420	251	333	468	207	85
2	130	221	311	e228	1530	2050	411	244	334	409	190	86
3	124	236	285	e225	1370	1770	405	234	2310	364	177	84
4	117	214	267	e224	1230	1570	392	225	1540	330	157	82
5	112	193	257	232	1100	1420	382	222	985	303	145	80
6	108	214	248	235	995	1300	375	217	744	283	134	80
7	103	299	240	249	914	1180	365	218	561	257	128	81
8	97	357	233	276	847	1060	e370	228	469	230	112	95
9	94	419	227	316	857	956	e375	209	437	209	102	121
10	95	481	222	354	953	876	376	202	416	194	104	156
11	95	467	220	387	977	816	386	193	386	181	100	170
12	95	410	219	458	953	774	390	228	343	170	100	159
13	93	360	e225	612	941	714	377	297	302	161	101	149
14	93	322	e220	787	969	669	356	277	282	167	110	140
15	99	295	e230	864	1240	658	364	253	456	155	108	130
16	104	273	e235	845	2140	661	373	229	502	175	114	123
17	104	257	e250	769	2200	640	375	211	443	217	112	168
18	103	241	e300	684	1870	617	362	300	386	207	108	194
19	99	228	e310	612	1630	595	349	369	335	185	e102	203
20	99	219	e305	544	1460	578	343	385	306	169	e96	205
21	99	211	e300	488	1320	563	340	376	365	155	93	189
22	100	202	e295	446	1220	549	331	366	531	142	86	175
23	106	202	e280	409	1180	535	328	350	523	137	79	162
24	108	210	e260	380	14200	511	322	329	464	129	80	154
25	108	262	e265	354	19800	495	309	310	408	121	85	145
26	114	478	e260	330	6720	480	294	291	358	117	93	136
27	132	583	e255	311	3980	466	283	276	319	115	92	132
28	183	515	e252	312	3000	457	273	263	298	439	89	127
29	215	442	e250	1280	---	450	266	249	749	421	83	118
30	204	388	e245	3000	---	440	259	265	634	332	80	117
31	190	---	e240	2350	---	431	---	299	---	249	82	---
MEAN	118	313	260	606	2764	862	352	270	551	232	111	135
MAX	215	583	344	3000	19800	2440	420	385	2310	468	207	205
MIN	93	189	219	224	847	431	259	193	282	115	79	80
IN.	.16	.40	.34	.80	3.30	1.14	.45	.36	.70	.31	.15	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	419	728	768	692	895	1343	1595	1492	987	490	261	295
MAX	2938	4094	3651	2509	2971	5020	6119	8964	4245	2565	2418	2164
(WY)	1942	1975	1993	1985	1951	1945	1945	1943	1995	1976	1950	1993
MIN	25.7	49.8	58.5	55.9	70.7	75.7	145	227	78.6	14.3	12.0	30.9
(WY)	1957	1964	1964	1964	1954	1956	1956	1964	1954	1954	1954	1953

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL MEAN	554		532		829	
HIGHEST ANNUAL MEAN					1881	1993
LOWEST ANNUAL MEAN					135	1954
HIGHEST DAILY MEAN	17000	Jun 18	19800	Feb 25	68600	Apr 19 1941
LOWEST DAILY MEAN	87	Sep 10,11	79	Aug 23	5.1	Sep 5 1954
ANNUAL SEVEN-DAY MINIMUM	90	Sep 5	83	Sep 1	5.6	Sep 2 1954
MAXIMUM PEAK FLOW	---		31700	Feb 25	137000	Apr 19 1941
MAXIMUM PEAK STAGE	---		20.32	Feb 25	28.40	Apr 19 1941
ANNUAL RUNOFF (INCHES)	8.65		8.28		12.92	
10 PERCENT EXCEEDS	944		961		1750	
50 PERCENT EXCEEDS	275		277		341	
90 PERCENT EXCEEDS	110		102		88	

e Estimated

07189000 ELK RIVER NEAR TIFF CITY, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1962 to June 1963, November 1965 to July 1975, October 1980 to September 1981, October 1982 to June 1990, November 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)
OCT 11...	1300	ENVIRONMENTAL	95	11.4	112	7.9	301	14.6	--	--	--	--
NOV 28...	0810	ENVIRONMENTAL	515	11.6	99	7.8	326	8.5	160	57.0	4.03	2.19
DEC 11...	1245	ENVIRONMENTAL	220	15.2	123	8.3	322	6.2	--	--	--	--
JAN 16...	1230	ENVIRONMENTAL	845	14.1	112	8.2	316	5.9	140	51.7	3.46	1.66
FEB 06...	0830	ENVIRONMENTAL	995	12.2	100	7.7	312	7.2	--	--	--	--
06...	0831	REPLICATE	--	--	--	--	--	--	--	--	--	--
MAR 20...	0815	ENVIRONMENTAL	578	11.4	97	8.1	279	8.5	--	--	--	--
APR 16...	1330	ENVIRONMENTAL	373	8.6	87	8.0	270	12.0	--	--	--	--
MAY 22...	0900	ENVIRONMENTAL	366	7.6	80	7.9	296	17.9	140	50.2	3.01	2.13
JUN 12...	1220	ENVIRONMENTAL	343	9.1	116	8.3	281	25.4	--	--	--	--
AUG 20...	1300	ENVIRONMENTAL	e96	7.6	100	7.9	310	27.6	--	--	--	--
SEP 18...	0825	ENVIRONMENTAL	194	5.3	64	7.5	302	22.7	--	--	--	--

DATE	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)
OCT 11...	--	125	126	154	0	--	--	--	--	--	<.041	<.08	1.10
NOV 28...	6.6	135	136	165	0	8.6	<.2	10	--	187	<.041	.12	2.25
DEC 11...	--	135	138	161	4	--	--	--	--	--	<.041	.17	1.94
JAN 16...	5.4	124	123	150	0	8.1	<.2	8.3	<10	180	<.041	E.08	2.90
FEB 06...	--	115	116	142	0	--	--	--	--	--	<.041	.14	3.60
06...	--	--	--	--	--	--	--	--	--	--	<.041	.16	3.61
MAR 20...	--	112	112	137	0	--	--	--	--	--	<.041	E.06	3.13
APR 16...	--	111	111	135	0	--	--	--	--	--	<.041	.15	1.91
MAY 22...	6.0	121	123	151	0	7.6	<.2	7.4	<10	180	<.040	.11	1.77
JUN 12...	--	139	138	168	0	--	--	--	--	--	E.027	.13	1.28
AUG 20...	--	123	123	150	0	--	--	--	--	--	<.040	.14	.344
SEP 18...	--	124	124	152	0	--	--	--	--	--	<.040	.11	.732

07189000 ELK RIVER NEAR TIFF CITY, MO--Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS DIS-SOLVED (mg/L as P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	OXYGEN DEMAND, CHEM-ICAL (high level) (mg/L) (00340)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ARSENIC DIS-SOLVED (µg/L as As) (01000)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT													
11...	E.003	.209	.189	.207	--	K6	K7	K8	--	--	--	--	--
NOV													
28...	.046	.082	.080	.095	<10	21	64	28	5	19	.3	<8.00	<.11
DEC													
11...	.020	.086	.046	E.058	--	K2	K14	22	--	--	--	--	--
JAN													
16...	.008	.098	.103	.104	<10	35	21	20	11	21	.3	<8.00	<.11
FEB													
06...	E.005	.114	.108	.119	--	43	75	41	--	--	--	--	--
06...	E.005	.111	.111	.116	--	--	--	--	--	--	--	--	--
MAR													
20...	<.006	.116	.111	.120	--	K12	K17	K8	--	--	--	--	--
APR													
16...	.009	E.059	.051	.062	--	20	43	23	--	--	--	--	--
MAY													
22...	E.003	.171	.156	.166	<10	49	60	90	11	26	.4	<8.00	<.10
JUN													
12...	.006	.216	.195	.218	--	K10	46	37	--	--	--	--	--
AUG													
20...	<.006	.156	.149	.149	--	K12	42	38	--	--	--	--	--
SEP													
18...	E.005	.335	.323	.334	--	K130	K160	K220	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
OCT								
11...	--	--	--	--	--	--	--	--
NOV								
28...	<4.7	<10	<.08	<1	<3.2	<.14	2	2
DEC								
11...	--	--	--	--	--	--	--	--
JAN								
16...	<4.7	<10	E.05	<1	<3.2	<.14	8	2
FEB								
06...	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--
MAR								
20...	--	--	--	--	--	--	--	--
APR								
16...	--	--	--	--	--	--	--	--
MAY								
22...	<5.0	<10	E.08	<1	E1.8	<.01	--	1
JUN								
12...	--	--	--	--	--	--	--	--
AUG								
20...	--	--	--	--	--	--	--	--
SEP								
18...	--	--	--	--	--	--	--	--

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
<--Numeric result is less than the value shown.

07189100 BUFFALO CREEK AT TIFF CITY, MO

LOCATION.--Lat 36°40'15", long 94°36'14", NW $^1/_4$ NE $^1/_4$ SE $^1/_4$ sec. 4, T.22 N., R.34 W., McDonald County, Hydrologic Unit 11070208, on downstream side of Highway 76 bridge, 0.5 mi east of Tiff City.

DRAINAGE AREA.--60.8 mi^2.

PERIOD OF RECORD.--May 24, 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records fair. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	10	8.5	8.0	281	209	26	17	12	31	7.2	2.3
2	.64	17	8.0	7.5	218	178	26	16	15	28	6.2	2.2
3	.78	21	7.5	7.0	181	157	25	15	1960	25	5.2	2.2
4	.99	26	7.1	6.9	153	138	25	15	495	23	4.7	2.0
5	1.1	22	6.9	7.0	132	122	24	15	229	21	4.2	1.9
6	1.1	25	6.8	7.8	116	113	24	15	142	19	3.9	1.8
7	1.0	24	6.5	10	103	105	23	15	110	17	3.7	1.7
8	.97	28	6.2	14	92	96	22	14	94	16	3.5	1.7
9	1.0	33	6.1	19	90	83	21	14	83	14	3.5	2.3
10	1.1	34	6.1	27	85	73	21	13	76	14	3.4	3.5
11	1.1	35	5.9	35	82	65	28	14	68	12	3.1	3.5
12	1.1	34	5.5	41	79	59	33	14	62	11	3.1	3.5
13	1.0	29	7.8	50	81	53	34	13	56	10	3.1	3.4
14	1.0	25	6.2	58	86	47	34	12	54	9.1	3.1	3.2
15	1.6	21	6.3	57	98	46	37	11	55	8.2	2.9	3.0
16	2.4	18	7.4	53	116	45	33	11	51	20	3.3	2.8
17	2.3	15	8.0	48	124	43	32	10	48	9.4	3.2	3.8
18	2.5	13	11	42	120	41	32	11	45	7.3	3.1	5.4
19	2.7	11	12	37	113	40	31	11	41	6.9	2.9	5.5
20	2.4	9.2	13	33	106	38	29	10	40	6.4	2.8	5.1
21	2.1	8.2	13	29	101	37	28	11	85	6.0	2.5	5.1
22	2.6	7.5	13	26	96	36	27	11	80	5.8	2.5	5.1
23	3.4	7.5	12	23	110	34	27	11	78	5.3	2.5	4.8
24	3.6	8.1	11	21	2050	33	25	10	64	5.1	2.6	4.6
25	3.5	8.3	10	19	1120	31	23	10	56	5.0	3.2	4.2
26	5.2	8.2	10	18	598	31	21	9.7	49	4.8	3.3	4.1
27	11	9.2	9.4	17	368	30	20	9.3	47	4.7	3.1	3.8
28	13	9.1	9.0	23	258	29	20	9.2	41	176	3.0	3.8
29	13	9.1	8.8	1170	---	28	19	9.2	38	29	2.8	3.8
30	11	8.7	8.6	732	---	27	18	11	34	13	2.5	3.8
31	8.7	---	8.2	399	---	27	---	12	---	8.8	2.5	---
MEAN	3.38	17.8	8.57	98.2	256	67.5	26.3	12.2	144	18.4	3.44	3.46
MAX	13	35	13	1170	2050	209	37	17	1960	176	7.2	5.5
MIN	.64	7.5	5.5	6.9	79	27	18	9.2	12	4.7	2.5	1.7
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)												
MEAN	3.38	17.8	8.57	98.2	256	67.5	26.3	12.2	199	33.7	5.85	2.63
MAX	3.38	17.8	8.57	98.2	256	67.5	26.3	12.2	254	49.0	8.27	3.46
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000	2000	2001
MIN	3.38	17.8	8.57	98.2	256	67.5	26.3	12.2	144	18.4	3.44	1.80
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2000

SUMMARY STATISTICS	FOR May 24-SEP 30 2000		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL MEAN			53.3		53.3	
HIGHEST ANNUAL MEAN					53.3	2001
LOWEST ANNUAL MEAN					53.3	2001
HIGHEST DAILY MEAN	2390	Jun 21	2050	Feb 24	2390	Jun 21 2000
LOWEST DAILY MEAN	.33	Sep 20	.64	Oct 2	.33	Sep 20 2000
ANNUAL SEVEN-DAY MINIMUM	.58	Sep 17	.92	Oct 1	.58	Sep 17 2000
MAXIMUM PEAK FLOW	---		5500	Jun 3	5500	Jun 3 2001
MAXIMUM PEAK STAGE	---		10.23	Jun 3	10.23	Jun 3 2001
INSTANTANEOUS LOW FLOW	---		.56	Oct 2	.33	Sep 19-22 2000
10 PERCENT EXCEEDS	118		97		116	
50 PERCENT EXCEEDS	9.8		13		15	
90 PERCENT EXCEEDS	1.0		2.7		2.3	

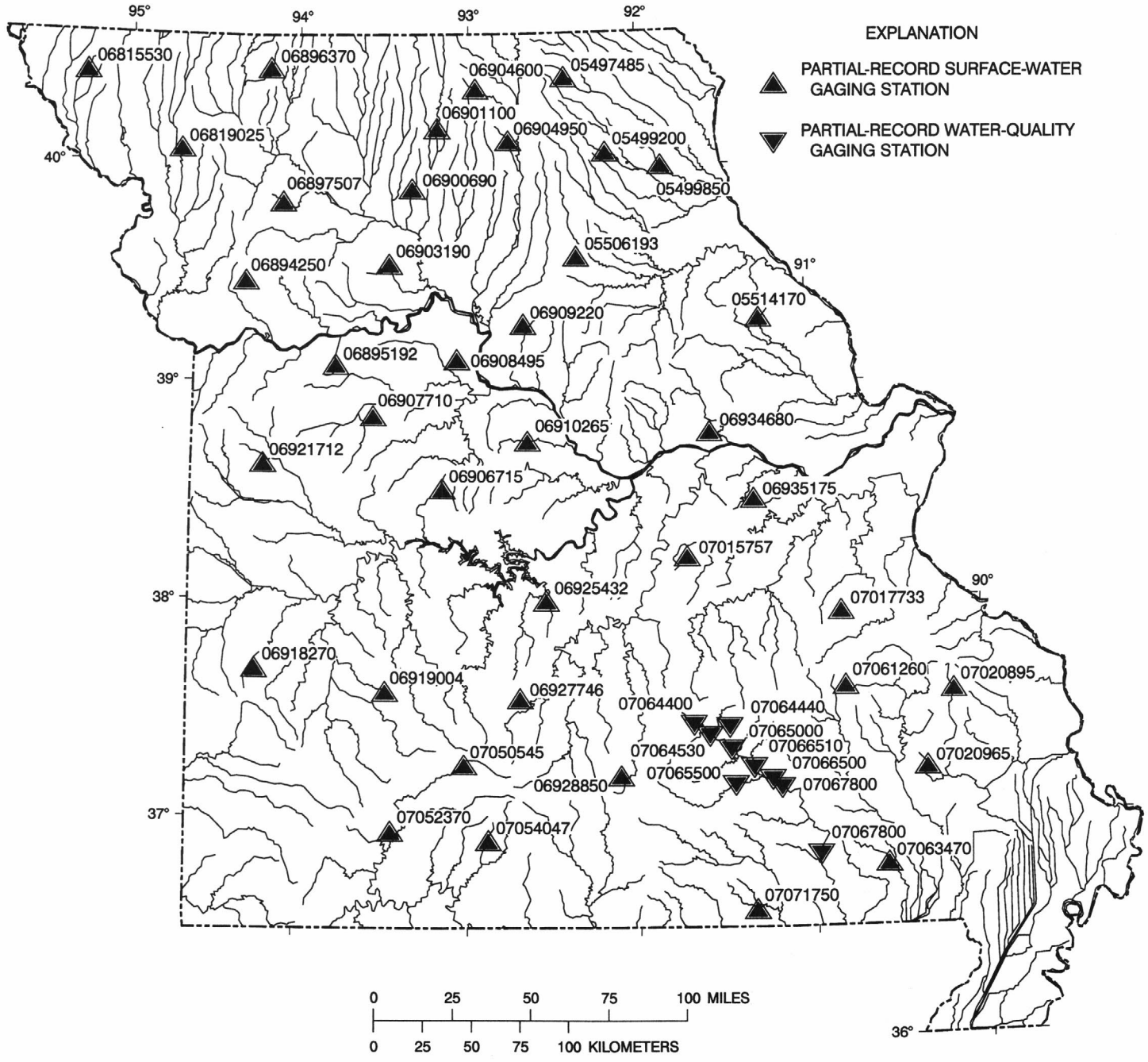


Figure 8. Location of partial-record stations.

DISCHARGE AT PARTIAL-RECORD STATIONS

The following table contains annual maximum discharges for crest-stage partial-record stations. A crest-stage gage is a device which will register the peak stage occurring at the station between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Maximum discharge at crest-stage partial-record stations

Station number and name	Location and basin characteristics	Period of record	Water year 2001 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft^3/s)	Probable date	Gage height (feet)	Discharge (ft^3/s)
	Fabius River Basin							
05497485 Brushy Creek near Queen City, Mo.	Lat 40°24'01", long 92°25'31", in NE 1/4 sec.35, T.65 N., R.14 W., Hydrologic Unit 07110002, Schuyler County, on downstream side of bridge on State Highway E, about 7 miles east of Queen City. Drainage area 5.35 mi^2, slope 23.1 ft/mi.	1997-2001	6-14	11.86	+	6-14-2001	11.86	+
05499200 Little Fabius River near Edina, Mo.	Lat 40°03'29", long 92°10'29", in SW 1/4 sec.30, T.61 N., R.11 W., Hydrologic Unit 07110003, Knox County, on downstream side of bridge on State Highway 15, about 7 miles south of Edina. Drainage area 23.8 mi^2, slope 7.02 ft/mi.	1997-2001	6-5	16.17	+	4-1-1998	17.45	+
05499850 Troublesome Creek near Lewistown, Mo.	Lat 39°59'52", long 91°50'37", in SE 1/4 sec.13, T.60 N., R.9 W., Hydrologic Unit 07110003, Lewis County, on downstream side of bridge on State Highway 156, about 7 miles south of Lewistown. Drainage area 92.3 mi^2, slope 4.57 ft/mi.	1997-2001	5-13	18.43	+	10-7-1998	19.23	+
	Salt River Basin							
05506193 Mud Creek near Moberly, Mo.	Lat 39°34'34", long 92°20'59", at center sec.10, T.55 N., R.13 W., Hydrologic Unit 07110006, Randolph County, on downstream side of bridge on State Highway J, about 16 miles northeast of Moberly. Drainage area 24.0 mi^2, slope 11.6 ft/mi.	1997-2001	6-6	12.89	+	7-4-1998	14.36	+
	Cuivre River Basin							
05514170 Irvine Branch near Bowling Green, Mo.	Lat 39°17'24", long 91°16'07", in SW 1/4 sec.8, T.52 N., R.3 W., Hydrologic Unit 07110008, Pike County, on downstream side of bridge on State Highway Y, about 6 miles southwest of Bowling Green. Drainage area 12.9 mi^2, slope 26.3 ft/mi.	1997-2001	6-4	14.31	+	6-4-2001	14.31	+

Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2001 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft^3/s)	Probable date	Gage height (feet)	Discharge (ft^3/s)
	Little Tarkio Creek Basin							
06815530 Little Tarkio Creek near Tarkio, Mo.	Lat 40°24'38", long 95°16'23", in SE 1/4 sec.27, T.65 N., R.39 W., Hydrologic Unit 10240005, Atchison County, on downstream side of bridge on State Highway N, 7 miles east of Tarkio. Drainage area 16.1 mi^2, slope 19.0 ft/mi.	1997-2001	6-14	16± [a]	+	6-14-2001	16± [a]	+
	Platte River Basin							
06819025 Agee Creek near Savannah, Mo.	Lat 40°03'41", long 94°42'01", at center sec.26, T.61 N., R.34 W., Hydrologic Unit 10240012, Andrew County, on downstream side of bridge on State Highway 48, 14 miles northeast of Savannah. Drainage area 6.54 mi^2, slope 24.5 ft/mi.	1997-2001	6-19	18.85	+	6-19-2001	18.85	+
	Fishing River Basin							
06894250 New Hope Creek near Holt, Mo.	Lat 39°27'29", long 94°18'22", in SW 1/4 sec.30, T.54 N., R.30 W., Hydrologic Unit 10300101, Clinton County, on downstream side of bridge on State Highway PP, 2 miles east of Holt. Drainage area 6.79 mi^2, slope 28.6 ft/mi.	1997-2001	6-5	11.88	+	10-5-1998	14.39	+
	Tabo Creek Basin							
06895192 Tabo Creek near Higginsville, Mo.	Lat 39°04'40", long 93°46'12", in NW 1/4 sec.3, T.49 N., R.26 W., Hydrologic Unit 10300101, Lafayette County, on downstream side of bridge on State Highway FF, 2 miles west of Higginsville. Drainage area 24.0 mi^2, slope 11.4 ft/mi.	1997-2001	6-6	18.50	+	2-12-1999	19.80	+
	Grand River Basin							
06896370 Big Muddy Creek near Bethany, Mo.	Lat 40°25'38", long 94°10'31", in NW 1/4 sec.21, T.65 N., R.29 W., Hydrologic Unit 10280101, Harrison County, on downstream side of bridge on State Highway M, 18 miles northwest of Bethany. Drainage area 29.4 mi^2, slope 14.2 ft/mi.	1997-2001	4-8	16.39	+	4-8-2001	16.39	+
06897507 Marrowbone Creek near Gallatin, Mo.	Lat 39°49'02", long 94°05'34", in SW 1/4 sec.19, T.58 N., R.28 W., Hydrologic Unit 10280101, Daviess County, on downstream side of bridge on State Highway J, 12 miles southwest of Gallatin. Drainage area 17.7 mi^2, slope 17.1 ft/mi.	1997-2001	6-5	16.51	+	11-2-1998	17.43	+

Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2001 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft^3/s)	Probable date	Gage height (feet)	Discharge (ft^3/s)
	Grand River Basin-continued							
06900690 Smokey Creek near Linneus, Mo.	Lat 39°52'51", long 93°19'39", in NE 1/4 sec.2, T.58 N., R.22 W., Hydrologic Unit 10280103, Linn County, on downstream side of bridge on State Highway B, about 7 miles west of Linneus. Drainage area 10.5 mi^2, slope 13.5 ft/mi.	1997-2001	2-8	15.43	+	2-8-2001	15.43	+
06901100 Locust Creek at Reger, Mo.	Lat 40°08'31", long 93°11'07", in NE 1/4 SW 1/4 SE 1/4 sec.30, T.62 N., R.20 W., Hydrologic Unit 10280201, Sullivan County, on downstream side of State Highway 6 and 0.3 mile east of Reger. Datum of gage is 774.67 ft above sea level. Drainage area 232 mi^2.	1987-2001	11-8	9.33	+	7-7-1993	21.88	19,700
06903190 Rock Branch near Carrollton, Mo.	Lat 39°32'10", long 93°27'32", in SE 1/4 sec.34, T.55 N., R.23 W., Hydrologic Unit 10280103, Carroll County, on downstream side of bridge on State Highway WW, 12 miles north of Carrollton. Drainage area 4.45 mi^2, slope 30.6 ft/mi.	1997-2001	6-7	11.81	+	10-6-1998	14.53	+
	Chariton River Basin							
06904600 Spring Creek near Milan, Mo.	Lat 40°20'34", long 92°57'18", in SE 1/4 sec.18, T.64 N., R.18 W., Hydrologic Unit 10280202, Sullivan County, on downstream side of bridge on State Highway 129, 16 miles northeast of Milan or about 5.5 miles north of Green City. Drainage area 13.7 mi^2, slope 17.8 ft/mi.	1997-2001	6-6	12.15	+	6-6-2001	12.15	+
06904950 Walnut Creek near Novinger, Mo.	Lat 40°06'24", long 92°45'23", in NW 1/4 sec.12, T.61 N., R.17 W., Hydrologic Unit 10280202, Adair County, on downstream side of bridge on State Highways 11 and 149, 11 miles south of Novinger. Drainage area 13.5 mi^2, slope 14.1 ft/mi.	1997-2001	7-25	14.61	+	6-19-1998	19.86	+
	Lamine River Basin							
06906715 Lake Creek near Cole Camp, Mo.	Lat 38°30'37", long 93°08'25", in NW 1/4 sec.9, R.43 N., R.20 W., Hydrologic Unit 10300103, Benton County, on downstream side of bridge on State Highway JJ, 6 miles northeast of Cole Camp. Drainage area 12.2 mi^2, slope 35.3 ft/mi.	1997-2001	4-13	15.08	+	04-13-2001	15.08	+

Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2001 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft^3/s)	Probable date	Gage height (feet)	Discharge (ft^3/s)
	Lamine River Basin-continued							
06907710 Little Walnut Creek near Knob Noster, Mo.	Lat 38°50'40", long 93°32'50", in SW 1/4 sec.22, T.47 N., R.24 W., Hydrologic Unit 10300104, Johnson County, on downstream side of bridge on State Highway 23, 5 miles north of Knob Noster. Drainage area 8.20 mi^2, slope 23.3 ft/mi.	1997-2001	3-15	15.11	+	7-30-1998	15.66	+
06908495 Camp Creek near Marshall, Mo.	Lat 39°06'12", long 93°03'21", in NW 1/4 sec.24, T.50 N., R.20 W., Hydrologic Unit 10300104, Saline County, on downstream side of bridge on State Highway 41, 7 miles east of Marshall. Drainage area 10.8 mi^2, slope 16.9 ft/mi.	1997-2001	6-8	14.24	+	6-8-2001	14.24	+
	Bonne Femme Creek Basin							
06909220 Ganaway Creek near Fayette, Mo.	Lat 39°15'54", long 92°39'51", in NW 1/4 sec.36, T.52 N., R.16 W., Hydrologic Unit 10300102, Howard County, on downstream side of culvert on State Highway U, 11 miles north of Fayette or 2.5 miles east of Armstrong. Drainage area 4.55 mi^2, slope 57.9 ft/mi.	1997-2001	6-8	13.24	+	7-30-1998	14.03	+
	Moniteau Creek Basin							
06910265 Moniteau Creek near California, Mo.	Lat 38°43'57", long 92°38'17", in E 1/2 sec.23, T.46 N., R.16 W., Hydrologic Unit 10300102, Cooper County, on downstream side of bridge on State Highway O, 9 miles northwest of California. Drainage area 67.6 mi^2, slope 16.0 ft/mi.	1997-2001	6-8	14.49	14,400	7-30-1998	15.60	17,940
	Osage River Basin							
06918270 Clear Creek near Nevada, Mo.	Lat 37°41'20", long 94°13'35", in SW 1/4 sec.16, T.34 N., R.30 W., Hydrologic Unit 10290105, Vernon County, on downstream side of bridge on State Highway DD, 16 miles southeast of Nevada. Drainage area 23.2 mi^2, slope 13.5 ft/mi.	1997-2001	2-28	14.36	+	5-5-1999	16.29	+
06919004 Bear Creek near Bolivar, Mo.	Lat 37°35'00", long 93°28'02", in NW 1/4 sec.21, T.33 N., R.23 W., Hydrologic Unit 10290106, Polk County, on downstream side of bridge on State Highway T, 3.5 miles southwest of Bolivar. Drainage area 7.45 mi^2, slope 26.0 ft/mi.	1997-2001	7-5	6.93	+	5-5-1998	8.35	+

Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2001 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft^3/s)	Probable date	Gage height (feet)	Discharge (ft^3/s)
	Osage River Basin-continued							
06921712 Clear Creek near Harrisonville, Mo.	Lat 38°37'35", long 94°11'27", in NW 1/4 sec.12, T.44 N., R.30 W., Hydrologic Unit 10290108, Cass County, on downstream side of bridge on State Highway Z, 9 miles east of Harrisonville. Drainage area 11.4 mi^2, slope 14.8 ft/mi.	1997-2001	6-7	12.46	+	5-4-1999	14.71	+
06925432 Barnett Hollow near Camdenton, Mo.	Lat 37°59'52", long 92°31'39", in SW 1/4 sec.25, T.38 N., R.15 W., Hydrologic Unit 10290109, Camden County, on downstream side of bridge on State Highway A, 14 miles east of Camdenton or 5 miles northeast of Montreal. Drainage area 6.98 mi^2, slope 55.5 ft/mi.	1997-2001	+	+	+	7-27-1998	5.19	+
	Gasconade River Basin							
06927746 Selvage Hollow near Lebanon, Mo.	Lat 37°33'13", long 92°40'52", in NW 1/4 sec.27, T.33 N., R.16 W., Hydrologic Unit 10290201, Laclede County, on downstream side of culvert on State Highway C, 5.5 miles east of Phillipsburg or 9 miles south of Lebanon. Drainage area 9.72 mi^2 slope 40.2 ft/mi.	1997-2001	7-28	5.49	+	7-28-2001	5.49	+
06928850 Hamilton Creek near Cabool, Mo.	Lat 37°11'47", long 92°05'43", in N 1/2 sec.13, T.29 N., R.11 W., Hydrologic Unit 10290202, Texas County, on downstream side of bridge on State Highway PP, 5 miles north of Cabool. Drainage area 9.29 mi^2, slope 42.9 ft/mi.	1997-2001	2-26	6.61	+	2-9-1999	8.51	+
	Loutre River Basin							
06934680 Dry Fork near Hermann, Mo.	Lat 38°46'29", long 91°33'53", in SW 1/4 sec.2, T.46 N., R.6 W., Hydrologic Unit 10300200, Montgomery County, on downstream side of bridge on State Highway P, 11 miles northwest of Hermann or 20 miles south of Montgomery City. Drainage area 7.66 mi^2, slope 68.7 ft/mi.	1997-2001	+	+	+	6-27-1997	7.13	+
	Boeuf Creek Basin							
06935175 Cedar Fork near Gerald, Mo.	Lat 38°27'44", long 91°18'29", in NW 1/4 sec.19, T.43 N., R.3 W., Hydrologic Unit 10300200, Franklin County, on downstream side of bridge on State Highway ZZ, 4.5 miles north of Gerald. Drainage area 8.53 mi^2, slope 34.3 ft/mi.	1997-2001	2-26	9.34	11,600	5-7-2000	17.67	11,600

Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2001 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft^3/s)	Probable date	Gage height (feet)	Discharge (ft^3/s)
	Meramec River Basin							
07015757 Upper Peavine Creek near Belle, Mo.	Lat 38°11'54", long 91°42'03", in SE 1/4 sec.16, T.40 N., R.7 W., Hydrologic Unit 07140103, Maries County, on downstream side of bridge on State Highway C, 7 miles south of Belle. Drainage area 6.79 mi^2, slope 32.0 ft/mi.	1997-2001	2-25	9.37	770	6-4-1998	12.19	2,660
07017733 Bates Creek at Potosi, Mo.	Lat 37°56'35", long 90°48'23", near sec.9, T.37 N., R.2 E., Hydrologic Unit 07140104, Washington County, on downstream side of bridge on State Highway 8, 0.5 mile west of Potosi. Drainage area 14.1 mi^2, slope 39.8 ft/mi.	1997-2001	3-15	7.19	+	+	9.71	+
	Headwater Diversion Channel Basin							
07020895 Castor River near Fredericktown, Mo.	Lat 37°34'40", long 90°09'50", in S 1/2 sec.4, T.33 N., R.8 E., Hydrologic Unit 07140107, Madison County, on downstream side of bridge on State Highway J, 7 miles east of Fredericktown. Drainage area 33.5 mi^2, slope 28.6 ft/mi.	1997-2001	2-25	8.30	2,430	4-3-1999	15.58	11,500
07020965 Bear Creek near Patterson, Mo.	Lat 37°13'30", long 90°19"31", in SW 1/4 sec.31, T.30 N., R.7 E., Hydrologic Unit 07140107, Wayne County, on downstream side of bridge on State Highway 34, 10.5 miles east of Patterson or 20 miles west of Marble Hill. Drainage area 13.1 mi^2, slope 33.5 ft/mi.	1997-2001	+	+	+	6-18-2000	11.58	+
	White River Basin							
07050545 North Carolina Creek near Marshfield, Mo.	Lat 37°14'53", long 93°00'30", in SE 1/4 sec.4, T.29 N., R.19 W., Hydrologic Unit 11010002, Webster County, on downstream side of culvert on State Highway B, 8 miles southwest of Marshfield. Drainage area 6.30 mi^2, slope 57.0 ft/mi.	1997-2001	+	+	+	5-5-1999	5.41	+
07052370 Dry Crane Creek near Crane, Mo.	Lat 36°56'18", long 93°26'05", in SE 1/4 sec.22, T.26 N., R.23 W., Hydrologic Unit 11010002, Stone County, on downstream side of bridge on State Highway A, 10 miles east of Crane. Drainage area 10.9 mi^2, slope 29.6 ft/mi.	1997-2001	+	+	+	3-20-1998	8.79	+

Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2001 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft^3/s)	Probable date	Gage height (feet)	Discharge (ft^3/s)
	White River Basin-continued							
07054047 Little Beaver Creek near Ava, Mo.	Lat 36°53'55", long 92°52'04", in SW 1/4 sec.36, T.26 N., R.18 W., Hydrologic Unit 11010003, Douglas County, on downstream side of bridge on State Highway T, 13 miles southwest of Ava. Drainage area 25.5 mi^2, slope 47.4 ft/mi.	1997-2001	+	+	+	5-5-1999	9.99	+
07061260 East Fork Black River near Ironton, Mo.	Lat 37°36'14", long 90°47'19", in SE 1/4 sec.35, T.34 N., R.2 E., Hydrologic Unit 11010007, Iron County, on downstream side of bridge on State Highway N, 10 miles west of Ironton at Iron/Reynolds County line. Drainage area 16.2 mi^2, slope 60.7 ft/mi.	1997-2001	7-29	7.78	+	2-7-1999	10.42	+
07063470 Tenmile Creek near Poplar Bluff, Mo.	Lat 36°46'59", long 90°33'35", in SE 1/4 sec.30, T.25 N., R.5 E., Hydrologic Unit 11010007, Butler County, on downstream side of bridge on State Highway TT, 8 miles west of Poplar Bluff. Drainage area 59.0 mi^2, slope 17.0 ft/mi.	1997-2001	7-29	5.56	1,360	4-5-1997	11.82	8,340
07071750 Louse Creek near Alton, Mo.	Lat 36°34'37", long 91°19'06", near center sec.8, T.22 N., R.3 W., Hydrologic Unit 11010011, Oregon County, on downstream side of bridge on State Highway E, 10 miles southeast of Alton. Drainage area 5.69 mi^2, slope 48.1 ft/mi.	1997-2001	6-14	5.48	+	4-5-1997	7.20	+

+ Not determined.
[a] Gage height based on poor field estimate.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

Water-quality partial-record stations are sites where chemical-quality, biological, and/or sediment data are collected systematically over a period of years for use in hydrologic analyses. The data are usually collected bi-annually.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. (cubic feet per second) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (per-cent satur-ation) (00301)	pH WATER WHOLE FIELD (stand-ard units) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	TEMPER-ATURE WATER (Deg C) (00010)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)
07064400 MONTAUK SPRINGS AT MONTAUK													
OCT													
11...	1340	ENVIRONMENTAL	56	8.2	78	7.5	317	13.9	161	161	197	0	<.041
MAY													
08...	1430	ENVIRONMENTAL	46	8.4	85	7.7	298	14.3	138	140	170	0	<.041
07064440 CURRENT RIVER BELOW MONTAUK STATE PARK													
OCT													
11...	1245	ENVIRONMENTAL	52	11.4	112	8.0	316	13.2	168	168	205	0	<.041
MAY													
08...	1340	ENVIRONMENTAL	53	13.0	141	8.3	295	17.5	147	146	176	1	<.041
08...	1345	BLANK	--	--	--	--	--	--	--	--	--	--	<.041
07064530 WELCH SPRING NEAR AKERS													
OCT													
11...	1050	ENVIRONMENTAL	71	8.2	79	7.5	343	13.9	177	179	219	0	<.041
MAY													
08...	1210	ENVIRONMENTAL	117	9.7	96	7.6	310	13.9	150	151	184	0	<.041
07064555 PULLTITE SPRING NEAR ROUND SPRING													
OCT													
11...	0855	ENVIRONMENTAL	11	8.6	82	7.6	324	13.7	169	169	206	0	<.041
MAY													
08...	1005	ENVIRONMENTAL	24	9.7	96	7.7	286	13.7	133	135	164	0	<.041
07065000 ROUND SPRING AT ROUND SPRING													
OCT													
11...	0745	ENVIRONMENTAL	13	6.8	65	7.5	265	13.7	179	180	220	0	<.041
MAY													
08...	0900	ENVIRONMENTAL	27	9.3	92	7.5	311	13.8	160	162	198	0	<.041
07065500 ALLEY SPRING AT ALLEY													
OCT													
10...	1725	ENVIRONMENTAL	70	8.8	85	7.6	314	14.3	166	167	204	0	<.041
10...	1726	REPLICATE	--	--	--	--	--	--	--	--	--	--	<.041
MAY													
08...	0735	ENVIRONMENTAL	82	9.3	91	8.2	279	13.7	153	153	187	0	<.041
07066510 CURRENT RIVER ABOVE POWDER MILL													
OCT													
10...	1605	ENVIRONMENTAL	452	10.4	100	8.2	334	14.3	181	181	221	0	<.041
MAY													
07...	1705	ENVIRONMENTAL	720	9.8	110	8.1	319	20.2	157	156	191	0	<.041
07066550 BLUE SPRING NEAR EMINENCE													
OCT													
10...	1435	ENVIRONMENTAL	88	8.3	81	7.6	307	14.8	157	158	193	0	<.041
MAY													
07...	1540	ENVIRONMENTAL	100	10.2	101	7.6	273	13.3	128	126	154	0	<.041
07067800 CURRENT RIVER BELOW HAWES CAMPGROUND													
OCT													
10...	1115	ENVIRONMENTAL	850	10.8	101	7.8	329	13.0	167	168	205	0	<.041
MAY													
07...	1240	ENVIRONMENTAL	1290	9.3	102	7.9	319	18.6	157	159	194	0	<.041
07...	1241	REPLICATE	--	--	--	--	--	--	--	--	--	--	<.041

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N) (00625)	NITROGEN, NO_2+NO_3 DISSOLVED (mg/L as N) (00631)	NITROGEN, NITRITE DISSOLVED (mg/L as N) (00613)	PHOSPHORUS DISSOLVED (mg/L as P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) (00671)	PHOSPHORUS TOTAL (mg/L as P) (00665)	E COLI, MTEC MF WATER (col./ 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col./ 100 mL) (31625)	FECAL STREP, KF STRP MF, WATER (col./ 100 mL) (31673)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	LEAD, TOTAL RECOVERABLE (µg/L as Pb) (01051)	SILVER, TOTAL RECOVERABLE (µg/L As Ag) (01077)	ZINC, TOTAL RECOVERABLE (µg/L as Zn) (01092)
07064400 MONTAUK SPRINGS AT MONTAUK													
OCT													
11...	<.08	.734	<.006	<.060	E.013	<.060	K1	K2	K5	<.11	<1	<.43	<31
MAY													
08...	<.08	.741	<.006	E.031	E.010	<.060	K1	K1	K2	<.11	<1	<.43	<31
07064440 CURRENT RIVER BELOW MONTAUK STATE PARK													
OCT													
11...	<.08	.649	.007	E.031	E.014	<.060	26	31	32	.33	<1	<.43	<31
MAY													
08...	.18	.609	.007	E.033	E.010	E.031	K2	K1	K3	<.11	M	<.43	<31
08...	<.08	<.047	<.006	<.060	<.018	<.060	--	--	--	<.11	1	<.43	<31
07064530 WELCH SPRING NEAR AKERS MO													
OCT													
11...	<.08	.597	<.006	<.060	E.009	<.060	K1	K1	K1	<.11	<1	<.43	<31
MAY													
08...	<.08	.632	<.006	<.060	<.018	<.060	K2	K10	K15	<.11	M	<.43	<31
07064555 PULLTITE SPRING NEAR ROUND SPRING, MO													
OCT													
11...	<.08	.492	<.006	<.060	E.013	<.060	K3	K9	K7	<.11	<1	<.43	<31
MAY													
08...	E.05	.525	<.006	E.030	<.018	<.060	K2	K1	K6	<.11	<1	<.43	<31
07065000 ROUND SPRING AT ROUND SPRING MO													
OCT													
11...	<.08	.331	<.006	<.060	<.018	<.060	33	32	44	<.11	<1	<.43	<31
MAY													
08...	.17	.367	<.006	<.060	<.018	<.060	K3	K1	K5	<.11	<1	<.43	<31
07065500 ALLEY SPRING AT ALLEY MO													
OCT													
10...	<.08	.555	<.006	<.060	E.011	<.060	K12	K13	K8	<.11	<1	<.43	<31
10...	<.08	.558	<.006	<.060	E.013	<.060	--	--	--	<.11	<1	<.43	<31
MAY													
08...	<.08	.653	<.006	<.060	<.018	<.060	K5	K7	K11	<.11	<1	<.43	<31
07066510 CURRENT RIVER ABOVE POWDER MILL													
OCT													
10...	<.08	.211	<.006	<.060	<.018	<.060	K3	K3	K5	<.11	<1	<.43	<31
MAY													
07...	E.07	.306	E.004	<.060	<.018	<.060	K1	K5	K10	<.11	<1	<.43	<31
07066550 BLUE SPRING NEAR EMINENCE, MO.													
OCT													
10...	<.08	.329	<.006	<.060	E.010	<.060	K1	K1	K1	<.11	<1	<.43	<31
MAY													
07...	E.04	.394	E.003	<.060	<.018	<.060	K1	K1	K1	<.11	<1	<.43	<31
07067800 CURRENT RIVER BELOW HAWES CAMPGROUND													
OCT													
10...	<.08	.152	<.006	<.060	<.018	<.060	K3	K5	K1	<.11	<1	<.43	<31
MAY													
07...	E.05	.240	<.006	<.060	<.018	<.060	K1	K16	K5	<.11	<1	<.43	<31
07...	E.04	.271	E.003	<.060	<.018	<.060	--	--	--	<.11	<1	<.43	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.
M--Presence of material verified, but not quantified.
<--Numeric result is less than the value shown.

A

Access to USGS water data 18
Accuracy of data and computed results 13
Acid neutralizing capacity,
definition of 18
Acre-foot, definition of 18
Adenosine triphosphate, definition of 18
Agee Creek near Savannah 487
Agency
Platte River near 96
Akers
Welch Spring near 493
Algae
Blue-green, definition of 19
Fire, definition of 22
Green, definition of 23
Algal growth potential, definition of 18
Alkalinity, definition of 18
Allendale
East Fork Grand River at 125
Alley
Alley Spring at 493
Alley Spring below 442
Alley Spring
Jacks Fork above 440
Jacks Fork at 441
Alley Spring at Alley 493
below Alley 442
Alton
Louse Creek near 492
Ambient water-quality network,
definition of 8
Analyses of samples collected at water-
quality partial-record stations 493
Annapolis
Black River below 435
Black River near 434
Annual 7-day minimum, definition of 18
Annual runoff, definition of 18
Aquifer, water table, definition of 31
Arkansas River Basin,
hydrologic records in 471
Arnold
Martigney Creek near 295
Aroclor, definition of 18
Arrangement of records 14
Artificial substrate, definition of 18
Ash mass, definition of 19
Atlanta
Long Branch Creek at 157
Ava
Little Beaver Creek near 492

B

Bacteria
Fecal coliform, definition of 22
Fecal streptococcal, definition of 22
Total coliform, definition of 30
Bacteria, definition of 19
Bagnell
Lake of the Ozarks near 201
Osage River near 202
Ballwin
Kiefer Creek near 316
Bardley
Eleven Point River near 468
Barnett Hollow near Camdenton 490
Base discharge (for peak discharge),
definition of 19
Base flow, definition of 19
Bates Creek at Potosi 491
Battlefield
Wilson Creek near 400
Bear Creek at Hannibal 53
near Bolivar 489
near Patterson 491
Bear Creek Basin, hydrologic records in 53
Beaver Creek at Bradleyville 423
Bed material, definition of 19
Bedload discharge, definition of 19
Bedload, definition of 19
Belle
Upper Peavine Creek near 491
Bellefontaine Neighbors
Maline Creek at 264
Watkins Creek at 259
Bennett Springs
Niangua River below 198
Benthic organisms, definition of 19
Berryman
Courtois Creek at 301
Bethany
Big Muddy Creek near 487
East Fork Big Creek near 127
Big Creek at Des Arc 372
at Sam A. Baker State Park 373
Big Muddy Creek near Bethany 487
Big Piney
Big Piney River near 211
Big Piney River at Devil's Elbow 213
below Ft. Leonard Wood 212
near Big Piney 211
Big River at Byrnesville 314
at Irondale 310
near Richwoods 311
Big Spring near Van Buren 457
Big Sugar Creek near Powell 477
Biochemical oxygen demand,
definition of 19
Biomass pigment ratio, definition of 19
Biomass, definition of 19
Black Jack
Coldwater Creek near 253
Spanish Lake Tributary near 258
Black River at Poplar Bluff 439
below Annapolis 435
near Annapolis 434
Blackwater River near Blue Lick 167
Blank samples, explanation of 17
Blue Lick
Blackwater River near 167
Blue River at Kansas City 104
at 12th Street in Kansas City 118
Blue River Basin, hydrologic records in 104
Blue Spring near Eminence 493
Blue Springs
Blue Springs Reservoir near 120
Blue Springs Reservoir near Blue Springs ... 120
Blue-green algae, definition of 19

Boaz
James River near 403
Boeuf Creek Basin, hydrologic records in ... 490
Bolivar
Bear Creek near 489
Bonhomme Creek near Clarkson Valley 227
near Ellisville 226
Bonne Femme Creek Basin,
hydrologic records in 489
Boonville
Missouri River at 168
Bottom material (see "Bed material") 19
Bourbeuse River above Union 307
at Union 309
near High Gate 306
Bowling Green
Irvine Branch near 486
Bradleyville
Beaver Creek at 423
Branson
Lake Taneycomo at 417
Table Rock Lake near 411
White River below Table Rock Dam near .. 412
White River near 414
Bridgeton
Cowmire Creek at 246
Fee Fee Creek near 239
Brookline
Wilson Creek near 398
Brush Creek
at Rockhill Road in Kansas City 111
at Ward Parkway in Kansas City 110
Brushy Creek near Queen City 486
Bryant Creek below Evans 427
near Tecumseh 429
Buffalo Creek at Tiff City 484
Bull Creek near Walnut Shade 420
Burgermeister Spring near Weldon Spring 72
Byrnesville
Big River at 314

C

Cabool
Hamilton Creek near 490
Calendar for water year 2001..... Front Cover
California
Moniteau Creek near 489
Camdenton
Barnett Hollow near 490
Camp Creek near Marshall 489
Canton
Wyaconda River above 42
Caplinger Mills
Sac River near 185
Carrollton
Rock Branch near 488
Cassville
Roaring River Spring near 388
Castor River at Zalma 357
near Fredericktown 491
Caulks Creek at Chesterfield 232
Cedar Creek near Pleasant View 184
Cedar Fork near Gerald 490
Cells volume 19
Cells/volume, definition of 19
Center
Mark Twain Lake near 62
Salt River near 64
Center Creek near Smithfield 472
Centerville
West Fork Black River at 430
Cfs-day (see "Cubic foot per
second-day") 20
Chariton River at Livonia 150
at Novinger 151
near Prairie Hill 152
Chariton River Basin,
hydrologic records in 150
Chemical oxygen demand, definition of 20
Chester, IL
Mississippi River at 352
Chesterfield
Caulks Creek at 232
Creve Coeur Creek at 233
Clarkson Valley
Bonhomme Creek near 227
Classification of records 14
Clear Creek near Harrisonville 490
near Nevada 489
Clearwater Lake near Piedmont 438
Clinton
South Grand River near 195
Clostridium perfringens 20
Coldwater Creek near Black Jack 253
near Hazelwood 252
Cole Camp
Lake Creek near 488
Coliphages, definition of 20
College of the Ozarks
Lake Taneycomo at 415
Color unit, definition of 20
Confined aquifer, definition of 20
Contents, definition of 20
Contents, table of v
Continuous-record station, definition of ... 20
Control structure, definition of 20
Control, definition of 20
Cooperation 1
Courtois Creek at Berryman 301
Cowmire Creek at Bridgeton 246
Crane
Dry Crane Creek near 491
Creve Coeur
Creve Coeur Creek near 234
Creve Coeur Creek at Chesterfield 233
near Creve Coeur 234
Crooked Creek near Paris 56
Cubic foot per second per square mile,
definition of 20
Cubic foot per second, definition of 20
Cubic foot per second-day,
definition of 20
Cuivre River Basin,
hydrologic records in 67
Cuivre River near Troy 67
Current River above Powder Mill 493
at Doniphan 460
at Van Buren 456
below Hawes Campground 493
below Montauk State Park 493

D

Dadeville
Sac River near 176
Daily mean suspended-sediment concentration, definition of 20
Daily-record station, definition of 20
Dardenne Creek at O'Fallon 70
at Old Town St. Peters 71
Dardenne Creek Basin, hydrologic records in 70
Data collection and computation 10
Data Collection Platform, definition of 20
Data logger, definition of 20
Data presentation 11,16
Data table of daily mean values 12
Datum, definition of 20
Davis Creek at Mound City 85
Deer Creek at Maplewood 285
Definition of terms 18
Des Arc
Big Creek at 372
Des Moines River at St. Francisville 38
Des Moines River Basin, hydrologic records in 38
DeSoto, KS
Kansas River at 102
Devil's Elbow
Big Piney River at 213
Diagram showing system for numbering miscellaneous sites (latitude and longitude) 9
Diatom, definition of 21
Diel, definition of 21
Discharge at partial-record stations 486
Discharge, definition of 21
Dissolved oxygen, definition of 21
Dissolved trace-element concentrations 17
Dissolved, definition of 21
Dissolved-solids concentration, definition of 21
Diversity index, definition of 21
Doniphan
Current River at 460
Downstream order and station number 9
Drainage area, definition of 21
Drainage basin, definition of 21
Dry Crane Creek near Crane 491
Dry Fork near Hermann 490
Dry mass, definition of 21
Dry weight, definition of 21
Dunlap
No Creek near 134

E

East Fork Big Creek near Bethany 127
East Fork Black River near Ironton 432,492
East Fork Grand River at Allendale 125
East Fork Little Chariton River
near Huntsville 160
near Macon 159
Edina
Little Fabius River near 486
Eleven Point River near Bardley 468
Elk Fork Salt River near Madison 60
Elk River near Tiff City 481
Ellington
Logan Creek at 437
Ellisville
Bonhomme Creek near 226
Eminence
Blue Spring near 493
Jacks fork ab 2nd unnamed hollow bl 447
Jacks Fork ab Lick Log Hollow below 448
Jacks Fork at 445
Mahans Creek above 443
Engelholm Creek near Wellston 280
Enterococcus bacteria, definition of 21
EPT Index, definition of 22
Escherichia coli (E. coli), definition of 22
Estimated (E) value, definition of 22
Euglenoids, definition of 22
Eureka
Meramec River near 315
Evans
Bryant Creek below 427
Ewing
Troublesome Creek near 45
Explanation of the records 8
Extractable organic halides, definition of 22

F

Fabius River Basin, hydrologic records in 43
Factors for converting inch-pound units to International System Units (SI)..... Back Cover
Fairdealing
Little Black River below 463
Fayette
Ganaway Creek near 489
Fecal coliform bacteria, definition of 22
Fecal streptococcal bacteria, definition of 22
Fee Fee Creek near Bridgeton 239
Fenton
Fenton Creek near 340
Yarnell Creek at 339
Fenton Creek near Fenton 340
Fire algae, definition of 22
Fishing River Basin, hydrologic records in 487
Fishpot Creek at Valley Park 326
Flat Creek at Jenkins 409
Florissant
Mill Creek near 251
Flow-duration percentiles, definition of ... 22
Fox River at Wayland 39
Fox River Basin, hydrologic records in 39
Frankford
Spencer Creek below Plum Creek near 66
Fredericktown
Castor River near 491
Freeman
South Grand River below 191
Ft. Leonard Wood
Big Piney River below 212
Roubidoux Creek above 207
Roubidoux Creek below 208

G

Gage datum, definition of 22
Gage height, definition of 22
Gage values, definition of 22
Gaging station, definition of 22
Galena
  James River at 406
Gallatin
  Grand River near 128
  Marrowbone Creek near 487
Ganaway Creek near Fayette 489
Gas chromatography/flame ionization
  detector, definition of 23
Gasconade River above Jerome 215
  at Jerome 218
  near Hazelgreen 206
  near Rich Fountain 219
Gasconade River Basin,
  hydrologic records in 206
Gerald
  Cedar Fork near 490
Glasgow
  Missouri River at 163
Grafton, IL
  Mississippi River at 75
  Mississippi River below 76
Graham
  Nodaway River near 88
Grand Glaize Creek near Manchester 331
  near Valley Park 333
Grand River Basin, hydrologic records in ... 123
Grand River near Gallatin 128
  near Sumner 145
Grant City
  Middle Fork Grand River near 123
Graphs showing comparison of 2001 water-
  year mean discharge to long-term mean
  discharge 6
Gravois Creek near Mehlville 290
Green algae, definition of 23
Greenfield
  Turnback Creek above 177
Greer
  Greer Spring at 465
Greer Spring at Greer 465

H

Habitat quality index, definition of 23
Hagers Grove
  North Fork Salt River at 54
Hamilton Creek near Cabool 490
Hannibal
  Bear Creek at 53
Hardness, definition of 23
Harris
  Little Medicine Creek near 139
  Medicine Creek at 136
Harrisonville
  Clear Creek near 490
Harry S Truman Reservoir at Warsaw 196
Hawes Campground
  Current River below 493
Hazelgreen
  Gasconade River near 206
Hazelwood
  Coldwater Creek near 252
Headwater Diversion Channel Basin,
  hydrologic records in 357
Henderson Mound
  St. Johns Ditch near 379
Hermann
  Dry Fork near 490
  Missouri River at 220
Hermitage
  Pomme de Terre Lake near 189
  Pomme de Terre River near 190
Higginsville
  Tabo Creek near 487
High Gate
  Bourbeuse River near 306
High tide, definition of 23
Hilsenhoff's Biotic Index,
  definition of 23
Holliday
  Middle Fork Salt River near 59
Holt
  New Hope Creek near 487
Horizontal datum (See "Datum") 23
Horton
  Little Osage River at 170
Huntsville
  East Fork Little Chariton River near ... 160
Huzzah Creek near Steelville 299
Hydrologic benchmark station,
  definition of 23
Hydrologic index station,
  definition of 23
Hydrologic unit, definition of 23

I

Identifying estimated daily discharge 13
Illustrations, list of vi
Inch, definition of 23
Indian Creek near Lanagan 478
Instantaneous discharge, definition of 23
Introduction 1
Irondale
  Big River at 310
Ironton
  East Fork Black River near 432,492
Irvine Branch near Bowling Green 486

J

Jacks Fork above Alley Spring 440
  above 2nd unnamed hollow bl Eminence ... 447
  above L. Shawnee Creek ab Two Rivers ... 454
  above Lick Log Hollow below Eminence ... 448
  above Powell Spring above Two Rivers ... 452
  above Two Rivers 450
  at Alley Spring 441
  at Eminence 445
  bl 3rd unnamed hollow ab Two Rivers 455
James River at Galena 406
  near Boaz 403
  near Springfield 394
Jefferson City
  Moreau River near 169

Jenkins
Flat Creek at 409
Jerome
Gasconade River above 215
Gasconade River at 218
Jones Branch near Springfield 390
Joplin
Shoal Creek above 476
Turkey Creek near 474

K

Kansas City
Blue River at 104
Blue River at 12th Street in 118
Brush Creek at Rockhill Road in 111
Brush Creek at Ward Parkway in 110
Longview Reservoir at 119
Missouri River at 103
Kansas River at DeSoto, KS 102
Kansas River Basin,
hydrologic records in 102
Kiefer Creek near Ballwin 316
Kirkwood
Sugar Creek at 332
Knob Noster
Little Walnut Creek near 489

L

Laboratory measurements 15
Laboratory Reporting Level,
definition of 23
Lake City
Little Blue River near 121
Lake Creek near Cole Camp 488
Lake of the Ozarks near Bagnell 201
Lake Taneycomo at Branson 417
at College of the Ozarks 415
Lakes and Reservoirs
Blue Springs Reservoir
near Blue Springs 120
Clearwater Lake near Piedmont 438
Harry S Truman Reservoir at Warsaw 196
Lake of the Ozarks near Bagnell 201
Lake Taneycomo at Branson 417
Lake Taneycomo at
College of the Ozarks 415
Long Branch Reservoir near Macon 158
Longview Reservoir at Kansas City 119
Mark Twain Lake near Center 62
Pomme de Terre Lake near Hermitage 189
Smithville Reservoir near Smithville ... 97
Stockton Lake near Stockton 182
Table Rock Lake near Branson 411
Wappapello Lake at Wappapello 376
Lamine River Basin,
hydrologic records in 164
Lamine River near Otterville 164
near Pilot Grove 165
Lanagan
Indian Creek near 478
Land-surface datum, definition of 23
Laredo
Medicine Creek at 138
Lebanon
Selvage Hollow near 490
Lewistown
Troublesome Creek near 486
Lick Creek at Perry 61
Light-attenuation coefficient,
definition of 23
Lindley Creek near Polk 188
Linneus
Locust Creek near 143
Smokey Creek near 488
Lipid, definition of 24
List of discontinued surface-water
discharge or stage-only stations xii
List of discontinued surface-water
quality stations xv
List of surface-water stations, in
downstream order, for which records
are published in this volume vii
Little Beaver Creek near Ava 492
Little Black River below Fairdealing 463
Little Blue River Basin,
hydrologic records in 119
Little Blue River near Lake City 121
Little Chariton River Basin,
hydrologic records in 157
Little Fabius River near Edina 486
Little Medicine Creek near Harris 139
Little Osage River at Horton 170
Little Piney Creek at Newburg 217
Little Platte River at Smithville 98
Little River Ditch 1 near Morehouse 383
Little River Ditches near Rives 384
Little Sac River near Morrisville 181
near Walnut Grove 179
Little Tarkio Creek Basin,
hydrologic records in 487
Little Tarkio Creek near Tarkio 487
Little Walnut Creek near Knob Noster 489
Livonia
Chariton River at 150
Locust Creek at Reger 488
near Linneus 143
near Unionville 141
Logan Creek at Ellington 437
Long Branch Creek at Atlanta 157
Long Branch near Santa Fe 58
Long Branch Reservoir near Macon 158
Long-Term Method Detection Level,
definition of 24
Longview Reservoir at Kansas City 119
Louse Creek near Alton 492
Loutre River Basin,
hydrologic records in 490
Low flow, 7-day 10-year, definition of 28
Low tide, definition of 24
Lower Mississippi River Basin,
hydrologic records in 259

M

Macks Creek
Niangua River at Tunnel Dam near 200
Macon
East Fork Little Chariton River near 159
Long Branch Reservoir near 158

Macrophytes, definition of 24
Madison
Elk Fork Salt River near 60
Mahans Creek above Eminence 443
Maline Creek at Bellefontaine Neighbors 264
Manchester
Grand Glaize Creek near 331
Map showing location of discharge partial record stations 485
Map showing location of Metropolitan St. Louis Sewer District stations 37
Map showing location of partial record surface-water stations 485
Map showing location of surface-water quality stations 36
Map showing location of surface-water stations 35
Map showing major drainage basin, physiographic areas, and areas of greater-than-mean discharge during 2001 5
Maplewood
Deer Creek at 285
Maramec Spring near St. James 296
Mark Twain Lake near Center 62
Marmaton River below Nevada 171
Marrowbone Creek near Gallatin 487
Marshall
Camp Creek near 489
Marshfield
North Carolina Creek near 491
Martigney Creek near Arnold 295
Maryville
One Hundred and Two River at 95
Mattese
Mattese Creek near 347
Mattese Creek near Mattese 347
Maximum discharge at crest-stage partial-record stations 486
McKenzie Creek near Shrewsbury 289
Mean concentration of suspended sediment, definition of 24
Mean discharge, definition of 24
Mean high tide, definition of 24
Mean low tide, definition of 24
Mean sea level, definition of 24
Measuring point, definition of 24
Medicine Creek at Harris 136
at Laredo 138
Mehlville
Gravois Creek near 290
Membrane filter, definition of 24
Meramec River at Paulina Hills 345
near Eureka 315
near Steelville 298
near Sullivan 303
Meramec River Basin, hydrologic records in 296
Metamorphic stage, definition of 24
Method Detection Limit, definition of 24
Methylene blue active substances, definition of 24
Micrograms per gram, definition of 24
Micrograms per kilogram, definition of 24
Micrograms per liter, definition of 24
Microsiemens per centimeter, definition of 24
Middle Fabius River near Monticello 44
Middle Fork Grand River near Grant City 123
Middle Fork Salt River near Holliday 59
Milan
Spring Creek near 488
Mill Creek
St. Francis River near 369
Mill Creek near Florissant 251
Milligrams per liter, definition of 24
Minimum Reporting Level, definition of 25
Miscellaneous site, definition of 25
Mississippi River at Chester, IL 352
at Grafton, IL 75
at St. Louis 269
at Thebes, IL 360
below Grafton, IL 76
Mississippi River Main Stem, hydrologic records in 75
Missouri River at Boonville 168
at Glasgow 163
at Hermann 220
at Kansas City 103
at Rulo, NE 84
at St. Charles 245
at St. Joseph 92
at Waverly 122
Missouri River Basin, hydrologic records in 85
Missouri River Main Stem, hydrologic records in 84
Missouri water-use fact sheet 2
Moberly
Mud Creek near 486
Moniteau Creek Basin, hydrologic records in 489
Moniteau Creek near California 489
Montauk
Montauk Springs at 493
Montauk Springs at Montauk 493
Montauk State Park
Current River below 493
Monticello
Middle Fabius River near 44
North Fabius River at 43
Moreau River Basin, hydrologic records in 169
Moreau River near Jefferson City 169
Morehouse
Little River Ditch 1 near 383
Morrisville
Little Sac River near 181
Most probable number (MPN), definition of 25
Mound City
Davis Creek at 85
Squaw Creek near 87
Mount Moriah
Thompson River near 129
Mud Creek near Moberly 486
Multiple-plate samplers, definition of 25
Mussel Fork near Mystic 155
Mystic
Mussel Fork near 155

N

Nanograms per liter, definition of 25
National Geodetic Vertical Datum of 1929, definition of 25
National stream-quality accounting network, definition of 8
National water-quality assessment program, definition of 8
Natural substrate, definition of 25
Nekton, definition of 25
Nephelometric turbidity unit, definition of 25
Nevada
  Clear Creek near 489
  Marmaton River below 171
New Hope Creek near Holt 487
New London
  Salt River near 65
Newburg
  Little Piney Creek at 217
NGVD of 1929 (see "National Geodetic Vertical Datum of 1929") 25
Niangua River at Tunnel Dam near Macks Creek 200
Niangua River below Bennett Springs 198
No Creek near Dunlap 134
Nodaway River Basin, hydrologic records in 88
Nodaway River near Graham 88
North American Vertical Datum of 1988 (NAVD 1988), definition of 25
North Carolina Creek near Marshfield 491
North Fabius River at Monticello 43
North Fork River near Tecumseh 424
North Fork Salt River at Hagers Grove 54
  near Shelbina 55
North River at Palmyra 52
North River Basin, hydrologic records in ... 52
Novinger
  Chariton River at 151
  Walnut Creek near 488
Numbering system for wells and miscellaneous sites 9

O

O'Fallon
  Dardenne Creek at 70
Old Town St. Peters
  Dardenne Creek at 71
One Hundred and Two River at Maryville 95
On-site measurements and sample collection 15
Open or screened interval, definition of ... 25
Organic carbon, definition of 25
Organic mass, definition of 25
Organism count, definition of
  Area, definition of 25
  Total, definition 30
  Volume, definition of 25
Organochlorine compounds, definition of 25
Osage River above Schell City 172
  below Harry S Truman Dam at Warsaw 197
  below St. Thomas 203
  near Bagnell 202
Osage River Basin, hydrologic records in 170
Other data available 14
Otterville
  Lamine River near 164

P

Pagedale
  River des Peres Tributary at 279
Palmyra
  North River at 52
Parameter Code, definition of 25
Paris
  Crooked Creek near 56
Partial-record station, definition of 25
Particle size, definition of 25
Particle-size classification, definition of 26
Patterson
  Bear Creek near 491
  St. Francis River near 375
Patterson Creek near Tiff City 479
Paulina Hills
  Meramec River at 345
Peak flow (peak stage), definition of 26
Pearson Creek near Springfield 391
Peerless Park
  Williams Creek near 321
Percent composition (percent of total), definition of 26
Percent shading, definition of 26
Periodic-record station, definition of 26
Periphyton, definition of 26
Perry
  Lick Creek at 61
Perryville
  South Fork Saline Creek near 356
Pesticides, definition of 26
pH, definition of 26
Physiography 4
Phytoplankton, definition of 26
Picocurie, definition of 26
Piedmont
  Clearwater Lake near 438
Pilot Grove
  Lamine River near 165
Plankton, definition of 26
Platte River at Sharps Station 99
  near Agency 96
Platte River Basin, hydrologic records in .. 95
Pleasant View
  Cedar Creek near 184
Polk
  Lindley Creek near 188
  Pomme de Terre River near 186
Polychlorinated biphenyls (PCB' s), definition of 26
Polychlorinated naphthalenes, definition of 26
Pomme de Terre Lake near Hermitage 189
Pomme de Terre River near Hermitage 190
  near Polk 186
Poplar Bluff
  Black River at 439
  Tenmile Creek near 492

Potosi
Bates Creek at 491
Powder Mill
Current River above 493
Powell
Big Sugar Creek near 477
Prairie Hill
Chariton River near 152
Preface iii
Primary productivity, definition of 26
Carbon method, definition of 27
Oxygen method, definition of 27
Princeton
Weldon River at 131
Publications of Techniques of Water-Resources Investigations of the U.S. Geological Survey 31
Pulltite Spring near Round Spring 493

Q

Quality assurance of water-quality data 16
Queen City
Brushy Creek near 486

R

Radiochemical programs, definition of 8
Radioisotopes, definition of 27
Records of stage and water discharge 9
Records of surface-water quality 14
Recoverable, bed (bottom) material, definition of 27
Recurrence interval, definition of 27
Reference samples, explanation of 17
Reger
Locust Creek at 488
Remark codes 16
Replicate samples, definition of 27
Replicate samples, explanation of 17
Report documentation page iv
Return period (see "Recurrence interval") .. 27
Rich Fountain
Gasconade River near 219
Richwoods
Big River near 311
River des Peres near University City 273
River des Peres Tributary at Pagedale 279
River mileage, definition of 27
Rives
Little River Ditches near 384
Roaring River Spring near Cassville 388
Rock Branch near Carrollton 488
Roubidoux Creek above Ft. Leonard Wood 207
below Ft. Leonard Wood 208
Roubidoux Spring at Waynesville 209
Round Spring
Pulltite Spring near 493
Round Spring at 493
Round Spring at Round Spring 493
Rulo, NE
Missouri River at 84
Runoff, definition of 27

S

Sac River at Highway J below Stockton 183
near Caplinger Mills 185
near Dadeville 176
Saco
St. Francis River near 370
Saline Creek Basin, hydrologic records in 356
Salt River Basin, hydrologic records in 54
Salt River near Center 64
near New London 65
Sam A. Baker State Park
Big Creek at 373
Santa Fe
Long Branch near 58
South Fork Salt River above 57
Savannah
Agee Creek near 487
Schell City
Osage River above 172
Sea level, definition of 27
Sediment 15
Sediment, definition of 28
Total load, definition of 30
Selvage Hollow near Lebanon 490
Seven-day 10-year low flow, definition of 28
Sharps Station
Platte River at 99
Shawnee Creek above Two Rivers 453
Shelbina
North Fork Salt River near 55
Shoal Creek above Joplin 476
Shrewsbury
McKenzie Creek near 289
Smithfield
Center Creek near 472
Smithville
Little Platte River at 98
Smithville Reservoir near 97
Smithville Reservoir near Smithville 97
Smokey Creek near Linneus 488
Sodium adsorption ratio, definition of 28
South Creek near Springfield 397
South Dry Sac River near Springfield 178
South Fabius River near Taylor 47
South Fork Saline Creek near Perryville 356
South Fork Salt River above Santa Fe 57
South Grand River below Freeman 191
near Clinton 195
Spanish Lake Tributary near Black Jack 258
Special networks and programs 8
Specific electrical conductance (conductivity), definition of 28
Spencer Creek below Plum Creek near Frankford 66
Spike samples, explanation of 18
Spring Creek near Milan 488
Spring River near Waco 471

Springfield
James River near 394
Jones Branch near 390
Pearson Creek near 391
South Creek near 397
South Dry Sac River near 178
Wilson Creek at 395
Wilson Creek near 396
Springs
Alley Spring at Alley 493
Alley Spring below Alley 442
Big Spring near Van Buren 457
Blue Spring near Eminence 493
Burgermeister Spring
near Weldon Spring 72
Greer Spring at Greer 465
Maramec Spring near St. James 296
Montauk Springs at Montauk 493
Pulltite Spring near Round Spring 493
Roaring River Spring near Cassville 388
Roubidoux Spring at Waynesville 209
Round Spring at Round Spring 493
Welch Spring near Akers 493
Squaw Creek near Mound City 87
St. Charles
Missouri River at 245
St. Francis River at Wappapello 378
near Mill Creek 369
near Patterson 375
near Saco 370
St. Francis River Basin,
hydrologic records in 369
St. Francisville
Des Moines River at 38
St. James
Maramec Spring near 296
St. Johns Ditch near Henderson Mound 379
St. Joseph
Missouri River at 92
St. Louis
Mississippi River at 269
St. Thomas
Osage River below 203
Stable isotope ratio, definition of 28
Stage (see Gage height) 28
Stage-discharge relation, definition of 28
Station identification numbers 9
Station manuscript 11
Statistics of monthly mean data 12
Steelville
Huzzah Creek near 299
Meramec River near 298
Stockton
Sac River at Highway J below 183
Stockton Lake near 182
Stockton Lake near Stockton 182
Streamflow, definition of 28
Substrate, artificial, definition of 18
Substrate, definition of 28
Artificial, definition of 18
Embeddedness Class, definition of 28
Natural, definition of 25
Sugar Creek at Kirkwood 332
Sullivan
Meramec River near 303
Summary of hydrologic conditions 4
Summary statistics 12
Sumner
Grand River near 145
Surface area of a lake, definition of 28
Surface water--streamflow 4
Surficial bed material, definition of 28
Suspended sediment, definition of 28
Mean concentration of, definition of 24
Suspended solids, total residue,
defnition of 29
Suspended, definition of 28
Recoverable, definition of 28
Total, definition of 29
Suspended-sediment, definition of
Concentration 29
Concentration, definition of 29
Discharge, definition of 29
Load, definition of 29
Swan
Swan Creek near 421
Swan Creek near Swan 421
Synoptic studies, definition of 29

T

Table giving comparisons of 2001 7-day low
flows to 7-day, 2-year low flows and
minimum flows for the period of
record for selected stations 7
Table giving comparisons of peak
discharge for the 2001 water year
with those for period of record for
selected stations 4
Table giving minimum and maximum daily
mean suspended-sediment concentrations
at two selected staions
for the 2001 water year 7
Table giving range of dissolved-solids
concentrations in selected streams
during the 2001 water year 7
Table Rock Lake near Branson 411
Tables, list of vi
Tabo Creek Basin, hydrologic records in 487
Tabo Creek near Higginsville 487
Tarkio
Little Tarkio Creek near 487
Taxa richness, definition of 29
Taxonomy, definition of 29
Taylor
South Fabius River near 47
Tecumseh
Bryant Creek near 429
North Fork River near 424
Temperature preferences
Cold, definition of 29
Cool, definition of 29
Warm, definition of 29
Tenmile Creek near Poplar Bluff 492
Thebes, IL
Mississippi River at 360
Thermograph, definition of 29
Thompson River at Trenton 133
near Mount Moriah 129

Tiff City
Buffalo Creek at 484
Elk River near 481
Patterson Creek near 479
Time-weighted average, definition of 29
Tons per acre-foot, definition of 29
Tons per day, definition of 29
Total coliform bacteria, definition of 30
Total discharge, definition of 30
Total in bottom material, definition of 30
Total length, definition of 30
Total load, definition of 30
Total organism count, definition of 30
Total recoverable, definition of 30
Total sediment discharge, definition of 30
Total sediment load, definition of 30
Total, definition of 29
Bottom material 30
Coliform bacteria 30
Trenton
Thompson River at 133
Trophic group, definition of
Filter feeder 30
Herbivore 30
Invertivore 30
Omnivore 30
Piscivore 30
Troublesome Creek near Ewing 45
near Lewistown 486
Troy
Cuivre River near 67
Turbidity, definition of 30
Turkey Creek near Joplin 474
Turnback Creek above Greenfield 177
Two Rivers
Jacks Fork above 450
Jacks Fork above L. Shawnee Creek ab ... 454
Jacks Fork above Powell Spring above ... 452
Jacks Fork bl 3rd unnamed hollow ab 455
Shawnee Creek above 453

U

Ultraviolet (UV) absorbance (absorption),
definition of 31
Union
Bourbeuse River above 307
Bourbeuse River at 309
Unionville
Locust Creek near 141
University City
River des Peres near 273
Upper Peavine Creek near Belle 491

V

Valley Park
Fishpot Creek at 326
Grand Glaize Creek near 333
Van Buren
Big Spring near 457
Current River at 456
Vertical datum (see "Datum") 31
Volatile organic compounds,
definition of 31

W

Waco
Spring River near 471
Walnut Creek near Novinger 488
Walnut Grove
Little Sac River near 179
Walnut Shade
Bull Creek near 420
Wappapello
St. Francis River at 378
Wappapello Lake at 376
Wappapello Lake at Wappapello 376
Warsaw
Harry S Truman Reservoir at 196
Osage River below Harry S
Truman Dam at 197
Water Quality-Control Data 17
Water quality--streamflow 7
Water table, definition of 31
Water temperature 15
Water use--1995 2
Water year, definition of 31
Water-table aquifer, definition of 31
Watkins Creek at Bellefontaine Neighbors ... 259
Waverly
Missouri River at 122
Wayland
Fox River at 39
Waynesville
Roubidoux Spring at 209
WDR, definition of 31
Weighted average, definition of 31
Welch Spring near Akers 493
Weldon River at Princeton 131
Weldon Spring
Burgermeister Spring near 72
Wellston
Engelholm Creek near 280
West Fork Black River at Centerville 430
Wet mass, definition of 31
Wet weight, definition of 31
White River Basin, hydrologic records in ... 388
White River below Table Rock
Dam near Branson 412
near Branson 414
Williams Creek near Peerless Park 321
Wilson Creek at Springfield 395
near Battlefield 400
near Brookline 398
near Springfield 396
WSP, definition of 31
Wyaconda River above Canton 42
Wyaconda River Basin,
hydrologic records in 42

Y

Yarnell Creek at Fenton 339

Z

Zalma
Castor River at 357
Zooplankton, definition of 31

☆ U.S. GOVERNMENT PRINTING OFFICE: 2002-755-183/20022