BUREAU OF RECLAMATION DENVER LIBRARY
92087704
BUREAU OF RECLAMATION LIBRARY
SURPLUS

USGS
for a changing world

ter Resources Data
Missouri
Water Year 2000

LIBRARY
MAY - 9 2001
Bureau of Reclamation
Reclamation Service Center

Water-Data Report MO-00-1



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

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

CALENDAR FOR WATER YEAR 2000

1999

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	

2000

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	29				

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 2000

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

Water-Data Report MO-00-1



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

2001

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

Sherry A. Ternes and Lori D. Wilson assembled the text of the report and Gary L. Wilson and Rebecca S. Inman 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 James H. Barks, 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 2001	Annual--Oct. 1, 1999 to Sept. 30, 2000

4. TITLE AND SUBTITLE
Water Resources Data--Missouri, Water Year 2000

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-00-1

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-00-1

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 2000 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 157 gaging stations; elevation at 12 lakes and reservoirs; water quality at 109 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
448

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	9
Station Identification Numbers	9
Downstream Order and Station Number	9
Numbering System for Wells and Miscellaneous Sites	9
Records of Stage and Water Discharge	10
Data Collection and Computation	10
Data Presentation	11
Station manuscript	11
Data table of daily mean values	12
Statistics of monthly mean data	13
Summary statistics	13
Identifying Estimated Daily Discharge	14
Accuracy of Data and Computed Results	14
Other Data Available	15
Records of Surface-Water Quality	15
Classification of Records	15
Arrangement of Records	15
On-site Measurements and Sample Collection	15
Water Temperature	16
Sediment	16
Laboratory Measurements	16
Quality Assurance of Water-Quality Data	17
Data Presentation	17
Remark Codes	18
Dissolved Trace-Element Concentrations	18
Water Quality-Control Data	18
Access to USGS Water Data	20
Definition of Terms	21
Publications on Techniques of Water-Resources Investigations	28
Surface-water station records	37
Partial-record surface-water stations	413
Analyses of samples collected at water-quality partial-record stations	420
Index	422

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 2000	5
	3.	Graphs showing comparison of 2000 water-year mean discharge to long-term mean discharge	6
	4.	Diagram showing system for numbering miscellaneous sites (latitude and longitude)	9
	5.	Graphs showing water-quality replicate data for 2000 water year	20
	6.	Map showing location of surface-water stations	32
	7.	Map showing location of surface-water-quality stations	33
	8.	Map showing location of Metropolitan St. Louis Sewer District stations	34
	9.	Map showing location of partial-record stations (surface and quality water)	412

TABLES

			Page
Table	1.	Comparisons of peak discharge for the 2000 water year with those for period of record for selected stations	4
	2.	Comparisons of 2000 7-day low flows to 7-day, 2-year low flows and minimum flows for the period of record at selected stations	7
	3.	Table of Water-Quality blank data for 2000 water year	35

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	37
FOX RIVER BASIN		
Fox River at Wayland (d,c,m)	05495000	38
WYACONDA RIVER BASIN		
Wyaconda River above Canton (d)	05496000	40
FABIUS RIVER BASIN		
North Fabius River at Monticello (d)	05497000	41
Middle Fabius River near Monticello (d)	05498000	42
Troublesome Creek near Ewing (c,m)	05499900	43
South Fabius River near Taylor (d,c,m)	05500000	44
NORTH RIVER BASIN		
North River at Palmyra (d)	05501000	48
BEAR CREEK BASIN		
Bear Creek at Hannibal (d)	05502000	49
SALT RIVER BASIN		
North Fork Salt River at Hagers Grove (d)	05502300	50
North Fork Salt River near Shelbina (d)	05502500	51
Crooked Creek near Paris (d)	05503800	52
South Fork Salt River above Santa Fe (d)	05504800	53
Long Branch near Santa Fe (d)	05506100	54
Middle Fork Salt River near Holliday (d)	05506350	55
Elk Fork Salt River near Madison (d)	05506800	56
Lick Creek at Perry (d)	05507600	57
Mark Twain Lake near Center (e)	05507700	58
Salt River near Center (d)	05507800	60
Salt River near New London (d)	05508000	61
Spencer Creek below Plum Creek near Frankford (d)	05508805	62
CUIVRE RIVER BASIN		
Cuivre River near Troy (d,c,m)	05514500	63
DARDENNE CREEK BASIN		
Dardenne Creek at O'Fallon (d)	05514840	65
Dardenne Creek at Old Town St. Peters (d)	05514860	66
Burgermeister Spring near Weldon Spring (d,c)	384304090441801	67
Mississippi River at Grafton, IL (d)	05587450	70
Mississippi River below Grafton, IL (c,m,s)	05587455	71
MISSOURI RIVER BASIN		
Missouri River at Rulo, NE (d)	06813500	78
NODAWAY RIVER BASIN		
Nodaway River near Graham (d,c,m)	06817700	79
Missouri River at St. Joseph (d,c,m)	06818000	83
PLATTE RIVER BASIN		
Platte River near Agency (d)	06820500	86
Little Platte River near Osborn (d)	06821065	87
Little Platte RIver near Plattsburg (d)	06821080	88
Smithville Reservoir near Smithville (e)	06821140	89
Little Platte River at Smithville (d)	06821150	90
Platte River at Sharps Station (d,c,m)	06821190	91
KANSAS RIVER BASIN		
Kansas River at DeSoto, KS (d)	06892350	93

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	94
BLUE RIVER BASIN		
Blue River near Kansas City (d)	06893500	95
Brush Creek at Ward Parkway in Kansas City (d)	06893557	96
Brush Creek at Main Street in Kansas City (d)	06893560	97
Brush Creek at Rockhill Road in Kansas City (d)	06893562	98
Blue River at 12th Street in Kansas City (d)	06893590	99
LITTLE BLUE RIVER BASIN		
Longview Reservoir at Kansas City (e)	06893791	100
Blue Springs Reservoir near Blue Springs (e)	06893885	101
Little Blue River near Lake City (d)	06894000	102
Missouri River at Waverly (d)	06895500	103
GRAND RIVER BASIN		
Middle Fork Grand River near Grant City (c,m)	06896187	104
East Fork Grand River at Allendale (c,m)	06896320	106
Grand River near Gallatin (d)	06897500	107
Thompson River at Mt. Moriah (c,m)	06898100	108
Weldon River at Princeton (c,m)	06898800	110
Thompson River at Trenton (d)	06899500	111
No Creek near Dunlap (c,m)	06899580	112
Medicine Creek near Harris (c,m)	06899950	114
Little Medicine Creek near Harris (c,m)	06900100	116
Locust Creek near Unionville (c,m)	06900900	118
Grand River near Sumner (d,c,m)	06902000	120
CHARITON RIVER BASIN		
Chariton River at Livonia (d)	06904050	125
Chariton River at Novinger (d)	06904500	126
Chariton River near Prairie Hill (d,c,m)	06905500	127
Musselfork near Mystic (c,m)	06905725	129
LITTLE CHARITON RIVER BASIN		
Long Branch Creek near Atlanta (d)	06906150	131
Long Branch Reservoir near Macon (e)	06906190	132
East Fork Little Chariton River near Macon (d)	06906200	133
East Fork Little Chariton River near Huntsville (d,c,m)	06906300	134
LAMINE RIVER BASIN		
Lamine River near Otterville (d)	06906800	136
Lamine River near Pilot Grove (c,m)	06907300	137
Blackwater River at Blue Lick (d)	06908000	139
Missouri River at Boonville (d)	06909000	140
OSAGE RIVER BASIN		
Osage River above Schell City (d,c,m)	06918070	141
Sac River near Dadeville (d)	06918440	145
Turnback Creek above Greenfield (d)	06918460	146
South Fork Little Dry Sac River near Springfield (d)	06918493	147
Little Sac River at Walnut Grove (c,m)	06918600	148
Little Sac River near Morrisville (d)	06918740	150
Stockton Lake near Stockton (e)	06918990	151
Sac River at Highway J below Stockton (d)	06919020	152
Cedar Creek near Pleasant View (d)	06919500	153
Sac River near Caplinger Mills (d)	06919900	154
Pomme De Terre River near Polk (d,c,m)	06921070	155
Lindley Creek near Polk (d)	06921200	157
Pomme de Terre Lake near Hermitage (e)	06921325	158
Pomme de Terre River near Hermitage (d)	06921350	159

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		
South Grand River near Clinton (d)	06921760	160
South Grand River at Grand River Church (c,m)	06921881	161
Harry S Truman Reservoir at Warsaw (e)	06922440	164
Osage River below Harry S Truman Dam at Warsaw (d)	06922450	165
Niangua River below Bennett Springs (c,m)	06923700	166
Niangua River at Tunnel Dam near Macks Creek (d)	06923950	168
Lake of the Ozarks near Bagnell (e)	06925500	169
Osage River near Bagnell (d)	06926000	170
Osage River below St. Thomas (d,c,m)	06926510	171
GASCONADE RIVER BASIN		
Gasconade River:		
Roubidoux Creek above Ft. Leonard Wood (d)	06928300	174
Roubidoux Creek below Ft. Leonard Wood (d)	06928430	175
Roubidoux Spring at Waynesville (c,m)	06928440	176
Big Piney River near Big Piney (d)	06930000	177
Big Piney River below Ft. Leonard Wood (d)	06930060	178
Big Piney River at Devil's Elbow (c,m)	06930450	179
Gasconade River above Jerome (c,m)	06930800	180
Little Piney Creek at Newburg (d)	06932000	182
Gasconade River at Jerome (d)	06933500	183
Gasconade River near Rich Fountain (d)	06934000	184
Missouri River at Hermann (d,c,m)	06934500	185
Bonhomme Creek near Ellisville (d)	06935755	190
Bonhomme Creek near Clarkson Valley (d,c,m)	06935770	191
Caulks Creek at Chesterfield (d)	06935830	195
Creve Coeur Creek at Chesterfield (d)	06935850	196
Creve Coeur Creek near Creve Coeur (d,c,m)	06935890	197
Fee Fee Creek near Bridgeton (d,c,m)	06935955	201
Missouri River at St. Charles (d)	06935965	205
Cowmire Creek at Bridgeton (d,c,m)	06935980	206
Mill Creek near Florissant (d)	06935997	210
Coldwater Creek near Hazelwood (d)	06936200	211
Coldwater Creek near Black Jack (d,c,m)	06936475	212
Spanish Lake Tributary near Black Jack (d)	06936530	216
LOWER MISSISSIPPI RIVER BASIN		
Watkins Creek near Bellefontaine Neighbors (d,c,m)	07001985	217
Maline Creek at Bellefontaine Neighbors (d,c,m)	07005000	221
Mississippi River at St. Louis (d,s)	07010000	225
River des Peres near University City (d,c,m)	07010022	229
River des Peres Tributary at Pagedale (d)	07010030	233
Engelholm Creek near Wellston (d,c,m)	07010035	234
Deer Creek at Maplewood (d)	07010086	238
Mckenzie Creek near Shrewsbury (d)	07010090	239
Gravois Creek near Mehlville (d,c,m)	07010180	240
Martigney Creek near Arnold (d)	07010208	244
MERAMEC RIVER BASIN		
Maramec Spring near St. James (c,m)	07010500	245
Meramec River near Steelville (d)	07013000	246
Huzzah Creek near Steelville (c,m)	07014000	247
Courtois Creek at Berryman (c,m)	07014200	249
Meramec River near Sullivan (d,c,m)	07014500	251
Bourbeuse River near High Gate (d)	07015720	254
Bourbeuse River above Union (c,m)	07016400	255
Bourbeuse River at Union (d)	07016500	257

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		
Big River at Irondale (d)	07017200	258
Big River near Richwoods (d,c,m)	07018100	259
Big River at Byrnesville (d)	07018500	261
Meramec River near Eureka (d)	07019000	262
Kiefer Creek near Ballwin (d,c,m)	07019072	263
Williams Creek near Peerless Park (d,c,m)	07019090	268
Fishpot Creek at Valley Park (d,c,m)	07019120	272
Grand Glaize Creek near Manchester (d)	07019150	276
Sugar Creek at Kirkwood (d)	07019175	277
Grand Glaize Creek near Valley Park (d,c,m)	07019185	278
Yarnell Creek at Fenton (d)	07019195	282
Fenton Creek near Fenton (d,c,m)	07019220	283
Meramec River at Paulina Hills (c,m)	07019280	287
Mattese Creek near Mattese (d,c,m)	07019317	289
Mississippi River at Chester, IL (d,s)	07020500	293
SALINE CREEK BASIN		
South Fork Saline Creek near Perryville (d)	07020550	297
HEADWATER DIVERSION CHANNEL BASIN		
Castor River at Zalma (c,m)	07021000	298
Mississippi River at Thebes, IL (d,c,m,s)	07022000	299
ST. FRANCIS RIVER BASIN		
St. Francis River:		
St. Francis River near Mill Creek (d)	07035800	307
St. Francis River near Saco (c,m)	07036100	308
Big Creek at Des Arc (d)	07037000	309
Big Creek at Sam A. Baker State Park (c,m)	07037300	310
St. Francis River near Patterson (d)	07037500	311
Wappapello Lake at Wappapello (e)	07039000	312
St. Francis River at Wappapello (d)	07039500	314
Right Chute of Little River:		
St. Johns Ditch near Henderson Mound (c,m)	07042450	315
Little River Ditch 1 near Morehouse (d)	07043500	318
Little River Ditches near Rives (c,m)	07046250	319
WHITE RIVER BASIN		
White River:		
Roaring River:		
Roaring River Spring near Cassville (c,m)	07050150	323
Jones Branch near Springfield (d)	07050680	324
Pearson Creek near Springfield (d)	07050690	326
James River near Springfield (d)	07050700	328
Wilson Creek at Springfield (d)	07052000	329
Wilson Creek near Springfield (d)	07052100	330
South Creek near Springfield (d)	07052120	333
Wilson Creek near Brookline (c,m)	07052152	332
Wilson Creek near Battlefield (d)	07052160	334
James River near Boaz (c,m)	07052250	336
James River at Galena (d,c,m)	07052500	339
Flat Creek at Jenkins (c,m)	07052800	342
Table Rock Lake near Branson (e)	07053400	344
White River below Table Rock Dam near Branson (c,t)	07053450	345
White River near Branson (d)	07053500	347
Lake Taneycomo at College of the Ozarks (c,t)	07053600	348
Lake Taneycomo at Branson (c,m)	07053700	350

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		
Bull Creek near Walnut Shade (d)	07053810	353
Swan Creek near Swan (c,m)	07053900	354
Beaver Creek at Bradleyville (d)	07054080	355
North Fork River near Tecumseh (d,c,m)	07057500	356
Bryant Creek below Evans (c,m)	07057750	358
Bryant Creek near Tecumseh (d)	07058000	359
West Fork Black River at Centerville (c,m)	07061150	360
East Fork Black River near Ironton (c,m)	07061260	361
Black River near Annapolis (d)	07061500	363
Black River below Annapolis (c,m)	07061600	364
Logan Creek at Ellington (d)	07061900	365
Clearwater Lake near Piedmont (e)	07062000	366
Black River at Poplar Bluff (d)	07063000	367
Current River:		
Jacks Fork above Alley Spring (c,m)	370857091265901	368
Jacks Fork at Alley Spring (d)	07065495	369
Alley Spring below Alley (c,m)	370901091262001	370
Mahans Creek above Eminence (c,m)	370911091223201	371
Storys Creek above Eminence (c,m)	370928091220801	372
Jacks Fork at Eminence (d,c,m)	07066000	373
Jacks Fork bl Wastewater Treatment Plant bl Eminence (c,m)	370907091210801	375
Jacks Fork ab 2nd Unnamed Hollow bl Eminence (c,m)	370905091204001	376
Jacks Fork above Lick Log Hollow below Eminence (c,m)	371014091201301	377
Jacks Fork above Bald Knob Hollow below Eminence (c,m)	371012091191301	378
Jacks Fork above Powell Spring above Two Rivers (c,m)	371026091183301	379
Shawnee Creek above Two Rivers (c,m)	371019091180101	380
Jacks Fork above Two Rivers (c,m)	07066110	381
Jacks Fork above L. Shawnee Creek above Two Rivers (c,m)	371020091174101	383
Little Shawnee Creek above Two Rivers (c,m)	371021091173201	384
Jacks Fork bl 3rd Unnamed Hollow above Two Rivers (c,m)	371054091173501	385
Current River at Van Buren (d)	07067000	386
Big Spring near Van Buren (d,c,m)	07067500	387
Current River at Doniphan (d,c,m)	07068000	389
Little Black River below Fairdealing (c,m)	07068510	392
Spring River:		
Eleven Point River:		
Greer Spring at Greer (d,c,m)	07071000	394
Eleven Point River near Bardley (d,c,m)	07071500	397
ARKANSAS RIVER BASIN		
Arkansas River:		
Neosho River:		
Spring River near Waco (d)	07186000	399
Center Creek near Smithfield (c,m)	07186480	400
Turkey Creek near Joplin (c,m)	07186600	402
Shoal Creek above Joplin (d)	07187000	404
Big Sugar Creek near Powell (d)	07188653	405
Indian Creek near Lanagan (d)	07188885	406
Patterson Creek near Tiff City (c,m)	07188950	407
Elk River near Tiff City (d,c,m)	07189000	408
Buffalo Creek at Tiff City (d)	07189100	411

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
Middle Fork Salt River at Paris	(d)	05506500	356	1939-1999
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
One Hundred Two River at Maryville	(d)	06819500	515	1932-1990
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
East Fork Big Creek near Bethany	(d)	06897000	95	1934-1972, 1996-1999
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
Locust Creek near Linneus	(d)	06901500	550	1928-1972
West Yellow Creek near Brookfield	(d)	06902200	135	1959-1977
Hamilton Branch near New Boston	(d)	06902500	2.51	1955-1972
Mussell 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

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

Station name	Type of record	Station number	Drainage area (mi^2)	Period of record
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
Cedar Creek near Columbia	(d)	06910410	70.2	1966-1982, 1987-1991
Moreau River near Jefferson City	(d)	06910500	561	1947-1974
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
Gasconade River near Hazlegreen	(d)	06928000	1,250	1928-1971
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
Castor River at Zalma	(d)	07021000	423	1920-1991
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

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 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
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
Wilsons 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 Wilsons 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
Wilson Creek near Battlefield	07052160	55.0	C,T	1972-1982
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

WATER RESOURCES DATA - MISSOURI 2000

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 157 gaging stations; elevation at 12 lakes and reservoirs; water quality at 109 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-00-1." 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 Springfield
City Utilities of Springfield
Harrison County Soil and Water
  Conservation Dist.
Kansas City Water Service Department
Metropolitan St. Louis Sewer Dist.
Missouri Department of Conservation
Missouri Department of Natural Resources
    Division of Geology and Land Survey
    Division of Environmental Quality
Missouri Department of Transportation
St. Charles County River and Streams Project
Watershed Committee of the Ozarks

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

National Park Service, Midwest Region
Sho-Me Power Electric Cooperative
Ameren UE Company of Missouri
U.S. Army Corps of Engineers
U.S. Department of Agriculture
    U.S. Forest Service
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.

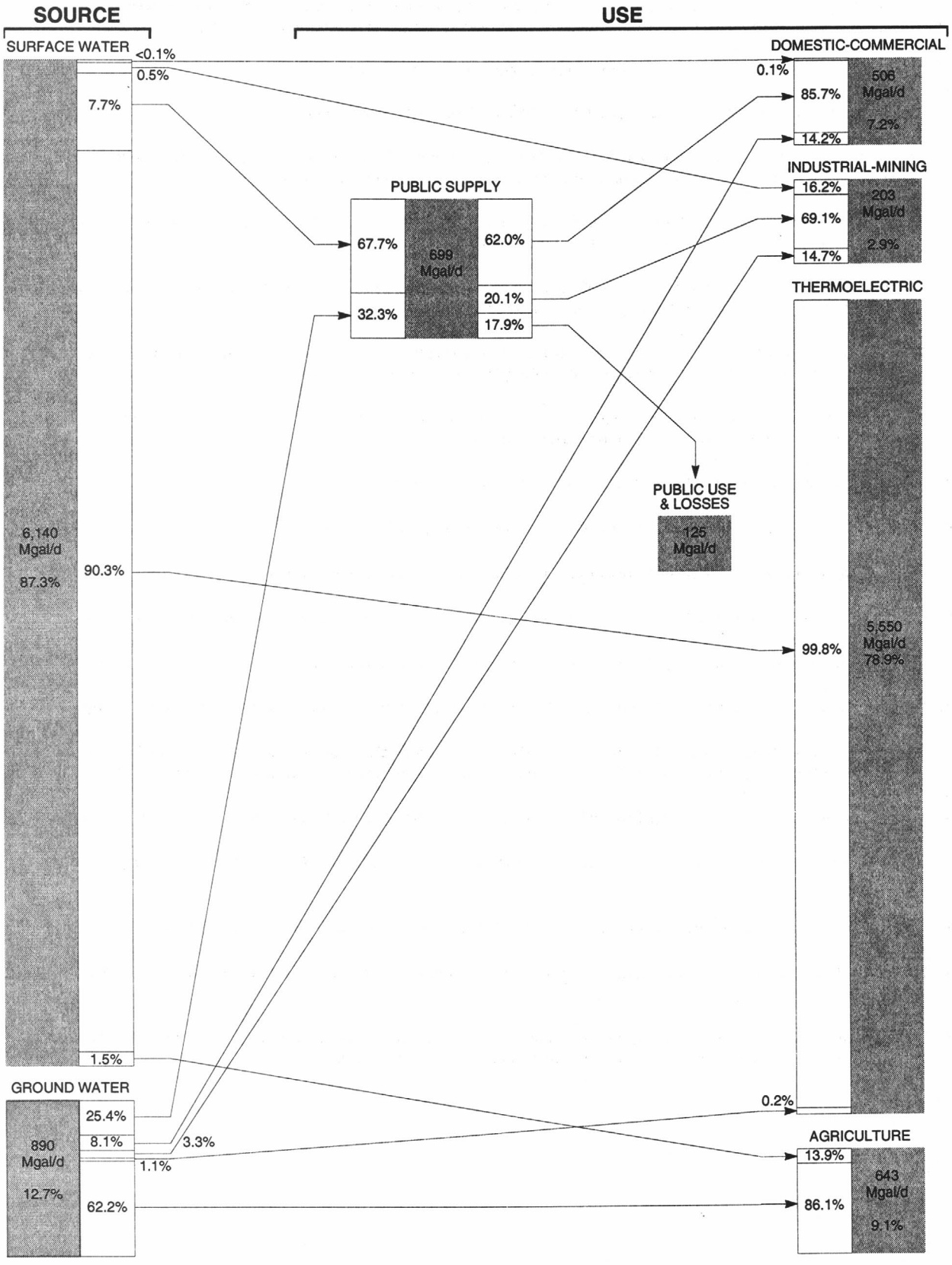

Figure 1. Source and use values and percentages for major offstream water-use categories in Missouri during 1995.

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 generally reflects precipitation patterns unless a stream is regulated. Rainfall was below normal in the State during November, April, March, August, and September. It was above normal in the State during December and June. October and January rainfall was below normal except in the Bootheel (Figure 3). February rainfall was above normal in the State except in the West Ozarks. May rainfall was below normal in the State except in the Northeast Prairie and the Bootheel. July rainfall was below normal in the Northeast Prairie, East Ozarks, and the Bootheel, and it was above normal in the Northwest Prairie, West Central Plains and West Ozarks. Annual rainfall was below normal statewide.

Statewide, annual mean discharges were less than long-term annual discharges during the 2000 water year (Figure 2). Monthly discharges during the 2000 water year and long-term monthly discharges at representative stations are shown in Figure 3. In general, monthly streamflows during the 2000 water year were less than long-term monthly flows.

Peak discharges for the 2000 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 2000 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 2000 water year with those for period of record for selected stations

Station identification		Peak discharge during 2000 water year: Cubic feet per second	Date	Peak discharge for period of record: Cubic feet per second	Date
05495000	Fox River at Wayland	2,990	July 11	26,400	Apr. 22, 1973
05587450	Mississippi River at Grafton, Ill.	291,000	June 29	598,000	Aug. 1, 1993
06893000	Missouri River at Kansas City	83,500	June 27	573,000	July 14, 1951
06894000	Little Blue River near Lake City	3,820	June 20	42,300	Aug. 13, 1982
06897500	Grand River near Gallatin	12,700	June 25	89,800	July 7, 1993
06905500	Chariton River near Prairie Hill	3,420	Aug. 24	31,900	Apr. 23, 1973
06933500	Gasconade River at Jerome	4,750	Dec. 11	136,000	Dec. 5, 1982
06934500	Missouri River at Hermann	147,000	June 27	750,000	July 31, 1993
07010000	Mississippi River at St. Louis	386,000	June 29	1,080,000	Aug. 1, 1993
07019000	Meramec River near Eureka	64,400	May 8	145,000	Dec. 6, 1982
07022000	Mississippi River at Thebes, Ill.	429,000	June 30	975,000	Aug. 7, 1993
07057500	North Fork River near Tecumseh	2,250	May 25	133,000	Nov. 19, 1985
07068000	Current River at Doniphan	5,740	Feb. 19	122,000	Dec. 3, 1982
07186000	Spring River near Waco	13,700	July 23	151,000	Sept. 26, 1993

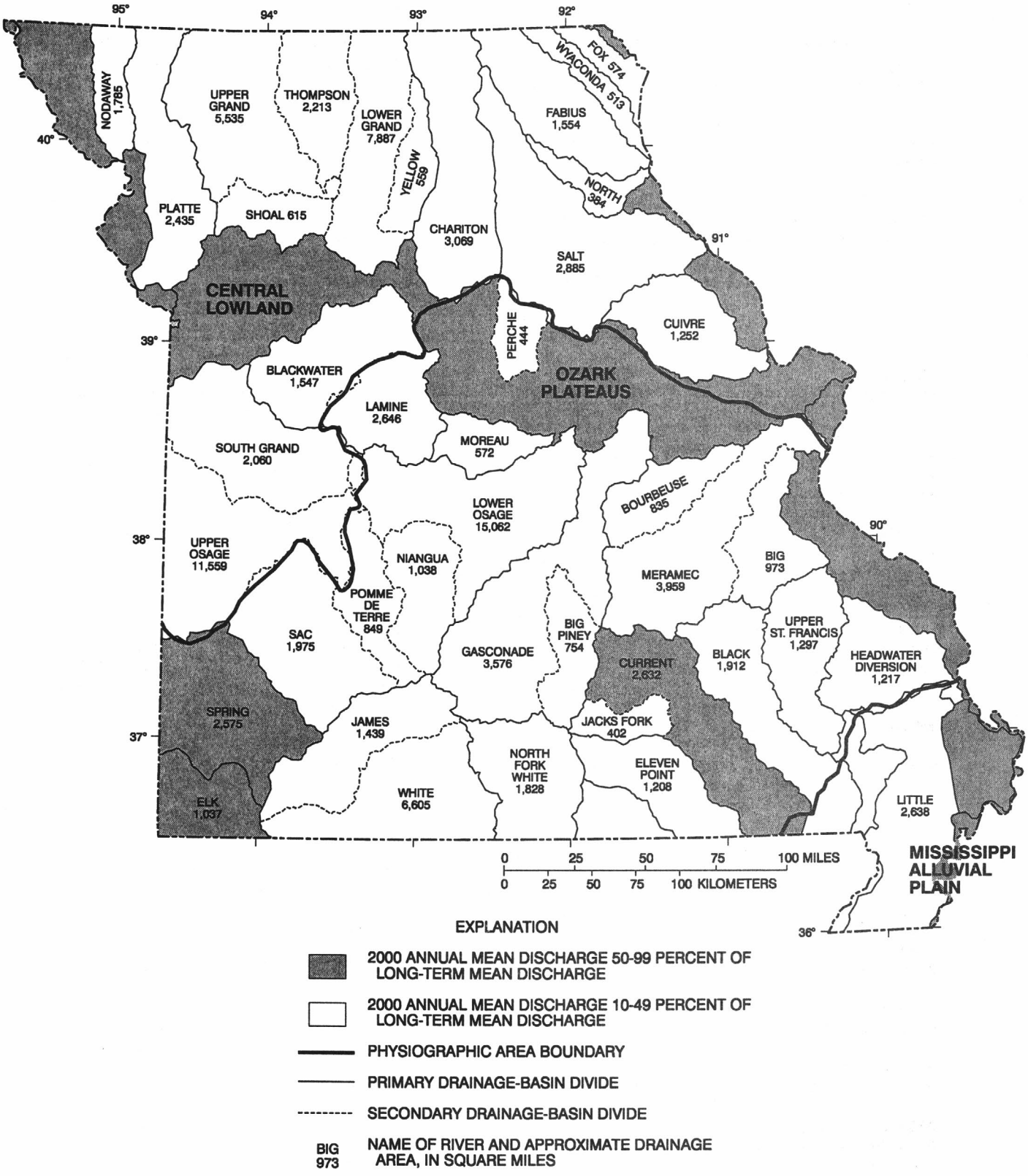

Figure 2. Major drainage basins, physiographic areas, and areas of mean discharge during 2000.

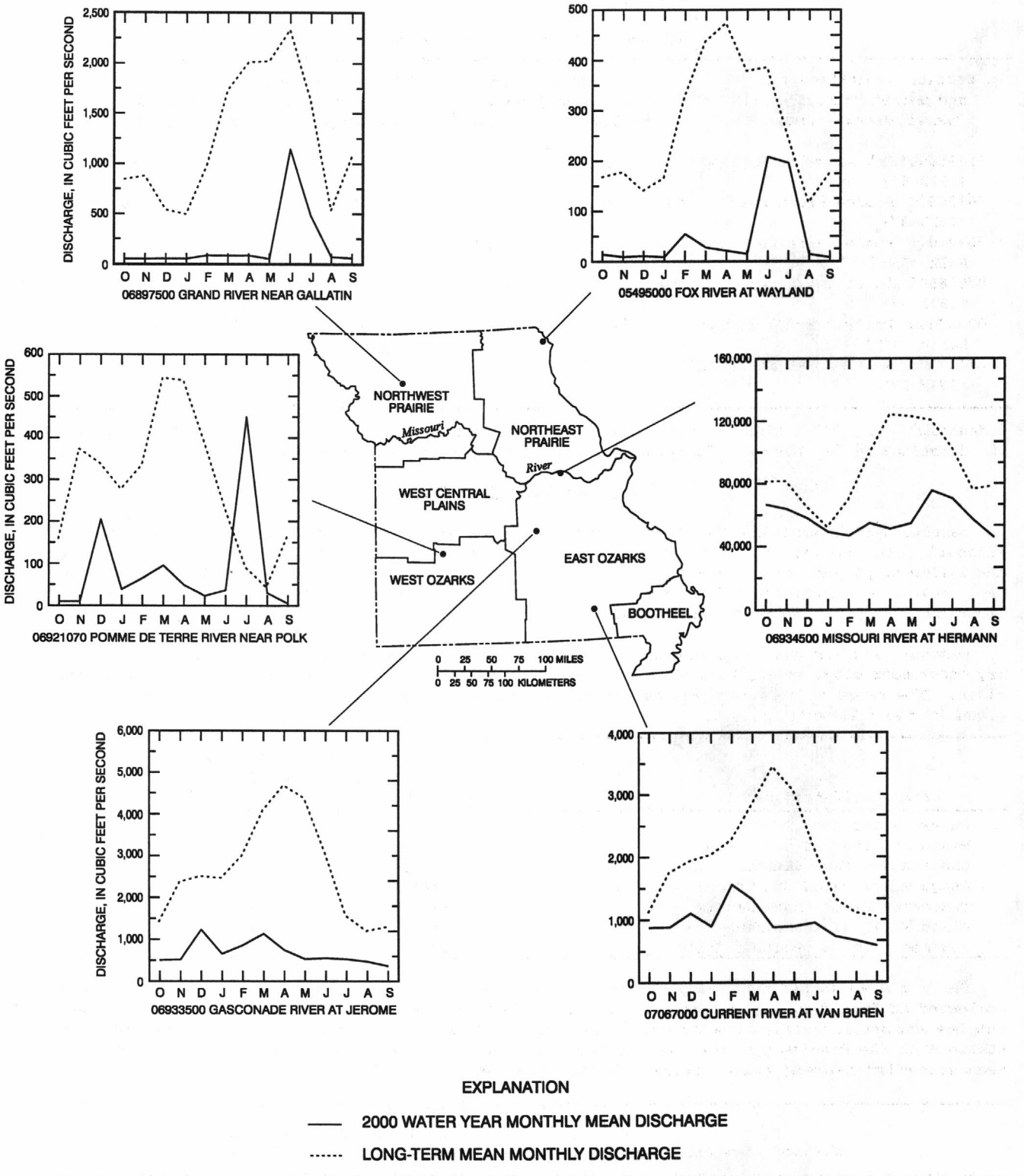

Figure 3. Comparison of 2000 water-year mean discharge to long-term mean discharge.

Table 2.--Comparisons of 2000 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	
	2000	2-year[1]	Discharge	Years of occurrence
05495000 Fox River at Wayland (1922-97)	1.3	1.3	0	Several years
06820500 Platte River near Agency (1933-97)	24	17	0	Several years
06921070 Pomme de Terre River near Polk (1969-97)	3.7	3.0	0.3	1980
07016500 Bourbeuse River at Union (1921-97)	20	32	13	1956
07067000 Current River at Van Buren (1912-97)	545	700	479	1956
07187000 Shoal Creek above Joplin (1942-97)	117	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. The range of dissolved-solids concentrations in selected streams during the water year is given in the following table.

Station identification	Dissolved-solids concentration (milligrams per liter)	
	Minimum	Maximum
Cuivre River near Troy	250	276
Missouri River at St. Joseph	502	525
Grand River near Sumner	185	308
Osage River below St. Thomas	170	175
Gasconade River above Jerome	196	199
Missouri River at Hermann	344	541
Meramec River at Paulina Hills	226	266

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.

Station identification	Daily mean suspended-sediment concentration (milligrams per liter)	
	Minimum	Maximum
Mississippi River at Grafton, IL	46	331
Mississippi River at Thebes, IL	80	871

SPECIAL NETWORKS AND PROGRAMS

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 41 stations. 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 is available through the World Wide Web 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 63 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 53 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 is available through the World Wide Web at:

http://wwwrvares.er.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, 1999, and ended September 30, 2000. 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).

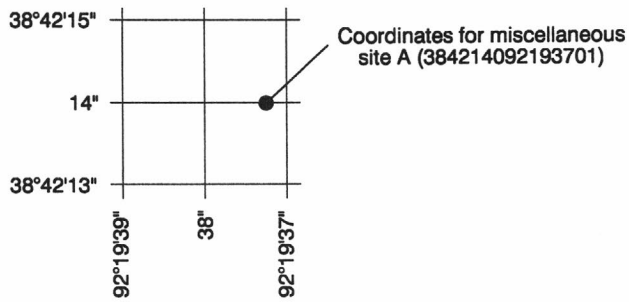

Figure 4. System for numbering miscellaneous sites (latitude and longitude).

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 6.

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 quality 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 7.

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 needs to be 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 detailed in the TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. 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 samples, 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 to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transaction to the U.S. Environmental Protection Agency's STORET system. 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 the appropriate computer file to ensure the most recent updates.

Remark Codes

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

PRINTED OUTPUT	REMARK
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be 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.
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.

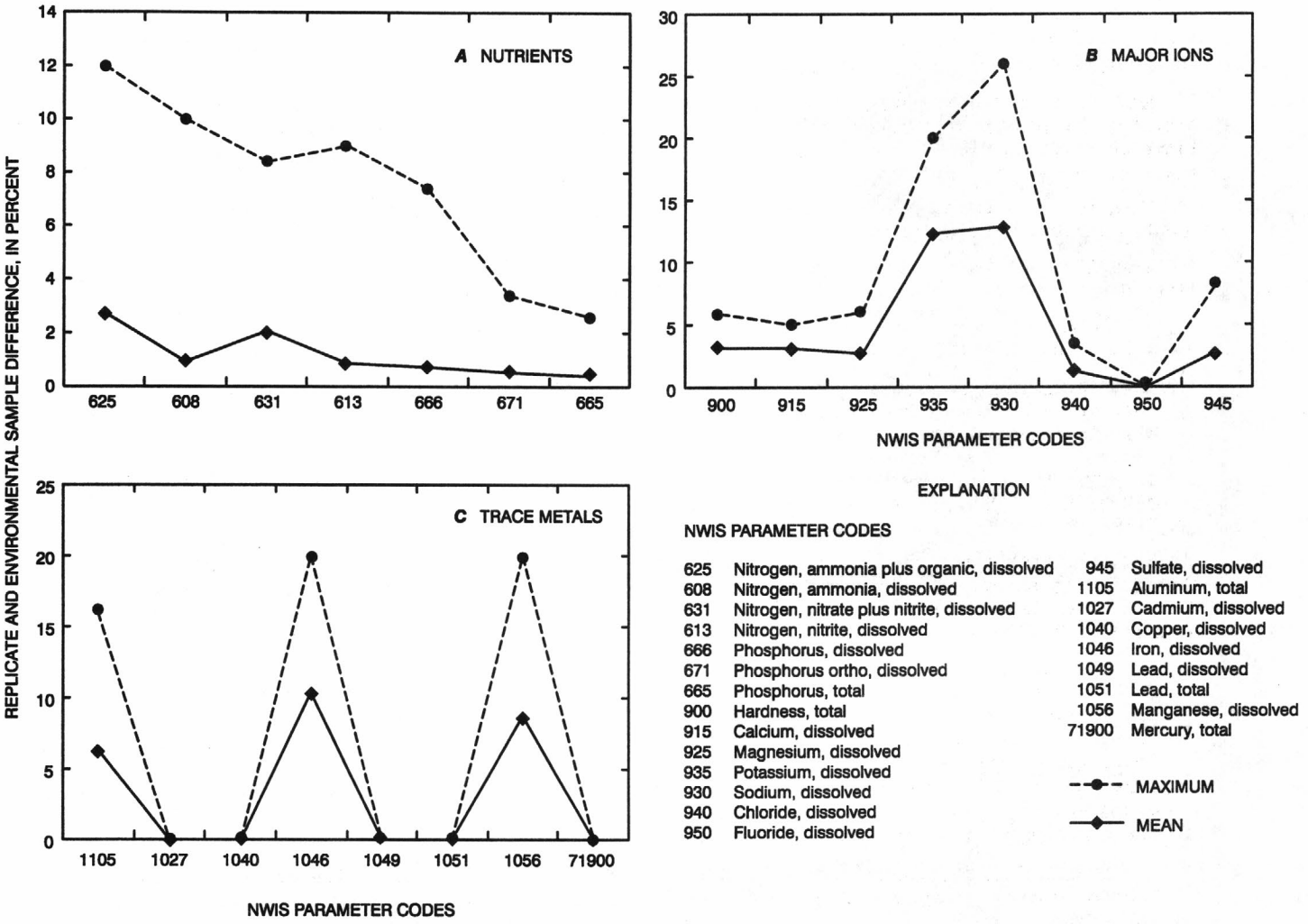

Figure 5. Replicate water-quality data for selected NWIS parameters in the Ambient Water-Quality Monitoring Network: ***A***, 33 sets of samples were used in the calculation of the nutrient percent differences; ***B*** and ***C***, 18 sets of samples were used in the calculation of the major ion and trace metal percent differences.

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

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. 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).

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 in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters

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.

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.

Bacteria are microscopic unicellular organisms, 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.

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.

Fecal coliform bacteria are bacteria that 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.

Fecal streptococcal bacteria are bacteria found in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. 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.

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.

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.

Base flow is flow in a channel sustained by ground-water discharge in the absence of direct runoff.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

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.

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 that meets either of the following conditions:

1. Stage or streamflow are recorded at some interval on a continuous basis. The recording interval is usually 15 minutes, but may be less or more frequent.
2. Water-quality, sediment, or other hydrologic measurements are recorded at least daily.

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 station. 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, 448.8 gallons per minute, or 0.02832 cubic meters per second.

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, 1.9835 acre-feet, 646,317 gallons, or 2,447 cubic meters.

Daily record is a summary of streamflow, sediment, or water-quality values computed from data collected with sufficient frequency to obtain reliable estimates of daily mean values.

Daily record station is a site for which daily records of streamflow, sediment, or water-quality values are computed.

Datum, as used in this report, is an elevation above mean sea level to which all gage height readings are referenced.

Discharge, or flow, is the volume of water (or more broadly, volume of fluid including solid- and dissolved-phase material), that passes a given point in a given period of time.

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days in a 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 discharge is the discharge at a particular instant of time.

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

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 agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved oxygen (DO) content of water in equilibrium with air 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, with small temperature changes having the more significant offset. Photosynthesis and respiration may cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration of water 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 that analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to reflect the change. Alternatively, alkalinity concentration (as mg/L $CaCO_3$) can be converted to carbonate concentration by multiplying by 0.60.

Drainage area of a site on a stream is that area, measured in a horizontal plane, that has a common outlet at the site for its surface runoff. Figures of drainage area 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 is occupied by a drainage system with a common outlet for its surface runoff (see "Drainage area").

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 the elevation of the zero point of the reference gage from which gage height is determined as compared to sea level (see "Datum"). This elevation is established by a system of levels from known benchmarks, by approximation from topographic maps, or by geographical positioning system.

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

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.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

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 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 U.S. Geological Survey. Each hydrologic unit is identified by an 8-digit number.

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

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 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.

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.

Miscellaneous site, or miscellaneous station, is a site where streamflow, sediment, and/or water-quality data are collected once, or more often on a random or discontinuous basis.

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 geodetic datum derived from a general adjustment of the first order level nets of the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place. *See NOAA web site: http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88*

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 41 stations. 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 to 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.

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.

Parameter Code is a 5-digit number used in the U.S. Geological Survey 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 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.

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, or volume.

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.

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.

River mile is the distance of a point on a river measured in miles from the river's mouth along the low-water channel.

Runoff in inches (IN., in.) is the depth, in inches, to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sea level refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929.
See: *http://www.co-ops.nos.noaa.gov/glossary/gloss_n.html#NGVD*

Sediment is solid material that is transported by, suspended in, or deposited from water. It originates mostly from disintegrated rocks; it also 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 factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

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 entire sample is used for the analysis.

Mean concentration of suspended sediment is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge (tons/day) is the quantity of sediment moving in suspension, reported as dry weight, 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.

Suspended-sediment load is a term that refers to material in suspension. 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.

Suspended total residue at 105°C concentration is the concentration of suspended sediment in the sampled zone expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). A small aliquot of the samples is used for the analysis.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, reported as dry weight, that passes a cross section in a given time.

Total sediment load or total load is a term that refers to the total sediment (bed load plus suspended-sediment load) that is in transport. 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 total sediment discharge.

Seven-day 10-year low flow (7Q10, $7Q_{10}$) is the minimum flow averaged over 7 consecutive days that is expected to occur on average, once in any 10-year period. The 7Q10 has a 10-percent chance of occurring in any given year.

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. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution 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.

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.

Surface area of a lake or impoundment is that area encompassed by the boundary of the lake or impoundment as shown on USGS topographic maps, or on other available maps or photographs. The computed surface areas reflect the water levels of the lakes or impoundments at the times when the information for the maps or photographs was obtained.

Surficial bed material is the top 0.1 to 0.2 ft of the bed material that 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 associated with 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-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 analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative suspended-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 analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

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.

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 that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot is the dry mass of dissolved solids in 1 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 the rate representing a mass of 1 ton of a constituent in streamflow passing a cross section in 1 day. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the total amount of a given constituent in a representative suspended-sediment 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 suspended-sediment mixture and that the analytical method determined all of the constituent in the sample.)

Total (as used in tables of chemical analyses) refers to the amount of a substance that is present both in solution and in suspension. Analyses are performed on representative samples of water-suspended sediment mixtures.

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

Total recoverable is the amount of a given constituent that is in solution after a representative suspended-sediment 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, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Turbidity is a measurement of the collective optical properties of a water sample that cause light to be scattered and absorbed rather than transmitted in straight lines; the higher the intensity of scattered light, the higher the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU) or Formazin turbidity units (FTU) depending on the method and equipment used.

Volatile organic compounds (VOC's) 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 VOC's are manmade 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 level is the water-surface elevation or stage of the free surface of a body of water above or below any datum (see "Gage height"), or the surface of water standing in a well, usually indicative of the position of the water table or other potentiometric surface.

Water year in U.S. Geological Survey 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, 2000, is called the "2000 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.

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published prior to 1976.

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

PUBLICATIONS ON 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 pages.

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 pages.

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 pages.

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

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 pages.

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

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 pages.

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 pages.

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 pages.

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

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

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

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

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

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

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 pages.

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

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 pages.

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 pages.

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

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

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

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

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

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 pages.

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

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

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

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 pages.

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 pages.

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 pages.

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

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 pages.

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 pages.

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 pages.

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 pages.

Section C. Sedimentation and Erosion Techniques

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

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 pages.

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

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 pages.

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

Section B. Surface Water

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

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

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

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 pages.

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 pages.

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 pages.

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 pages.

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 pages.

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 pages.

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 pages.

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 pages.

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 pages.

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 pages.

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 pages.

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 pages.

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 pages.

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 pages.

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 pages.

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 pages.

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 pages.

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 pages.

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

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 pages.

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 pages.

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 pages.

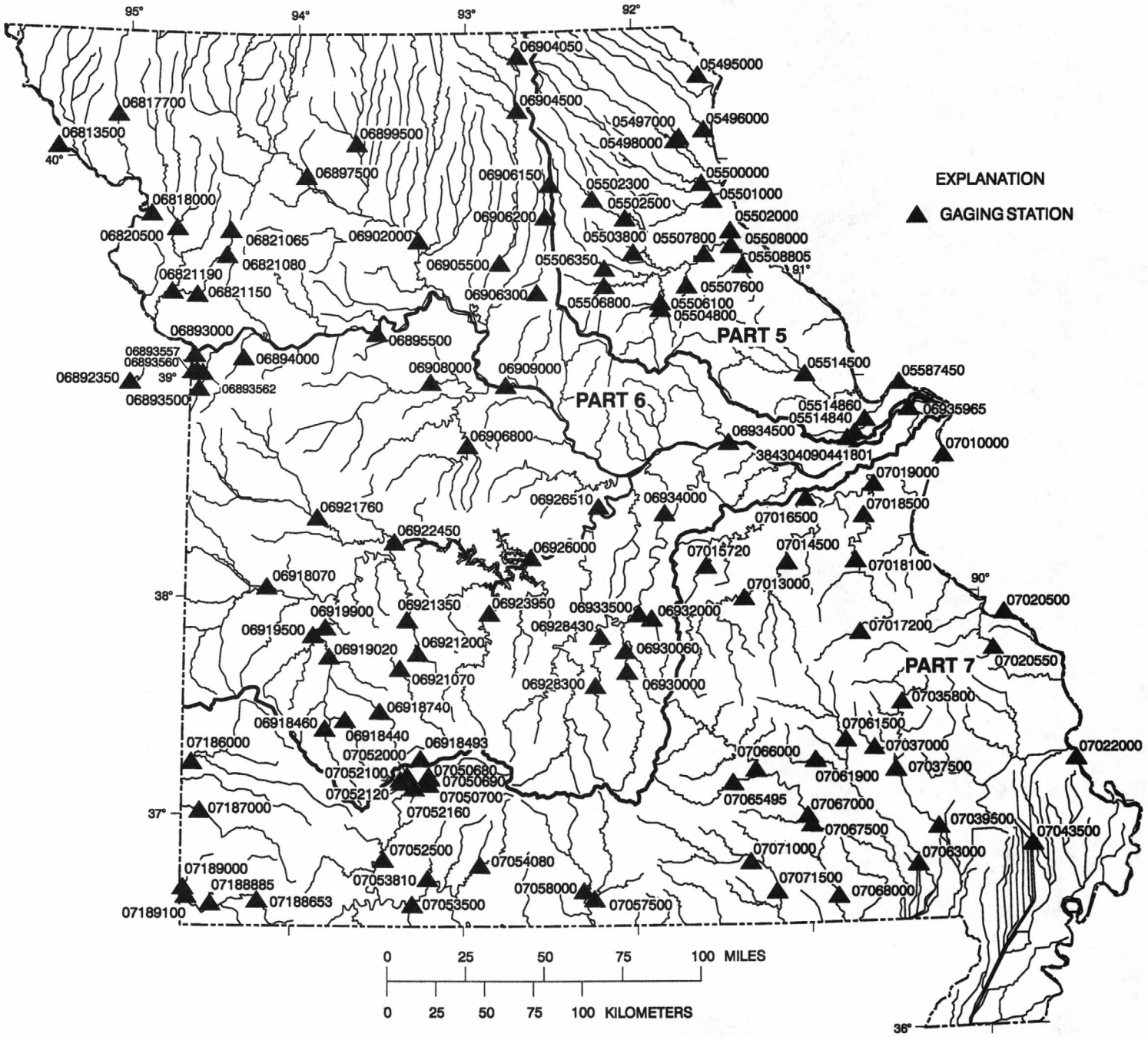

Figure 6. Location of surface-water stations.

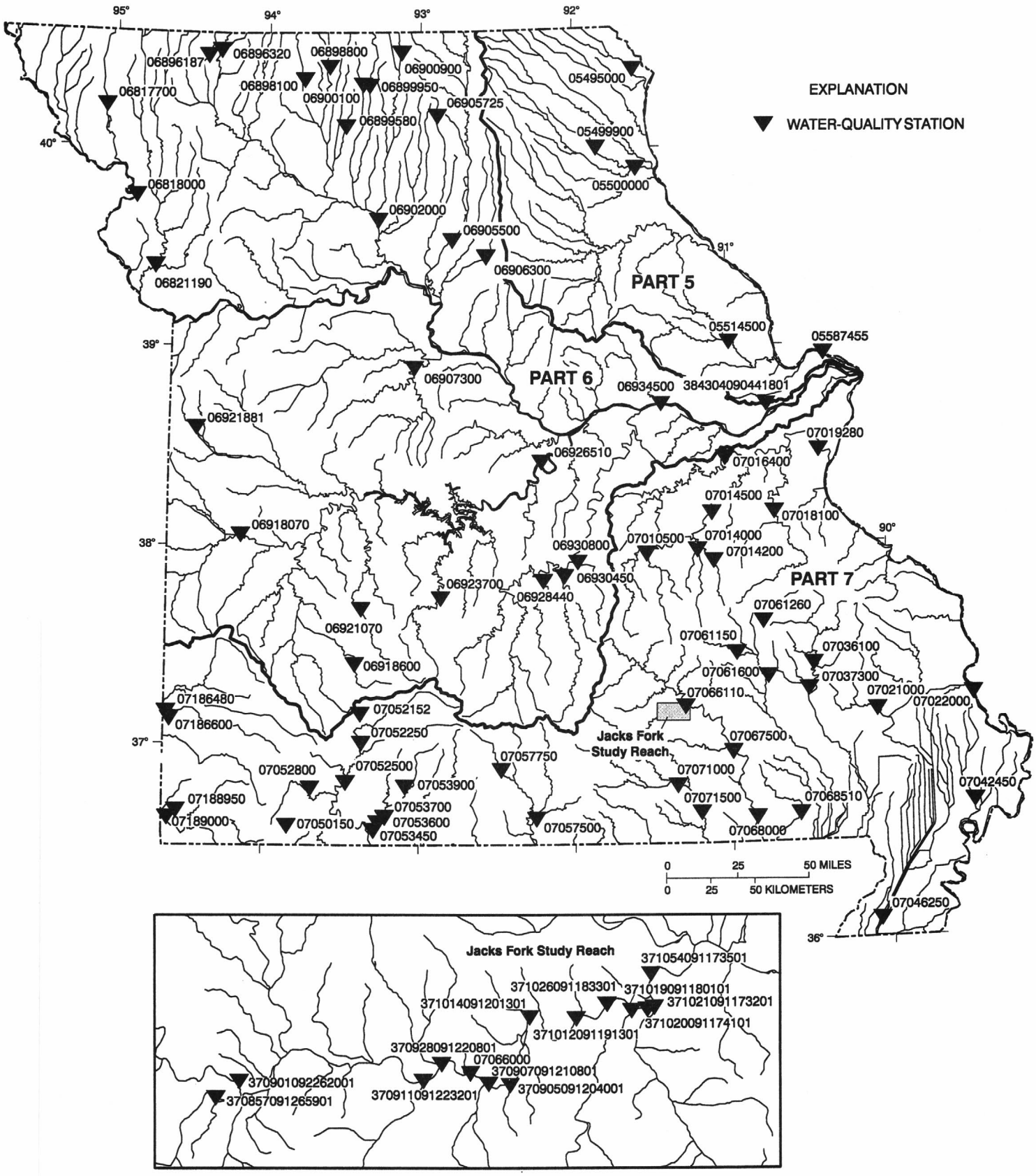

Figure 7. Location of surface-water-quality stations.

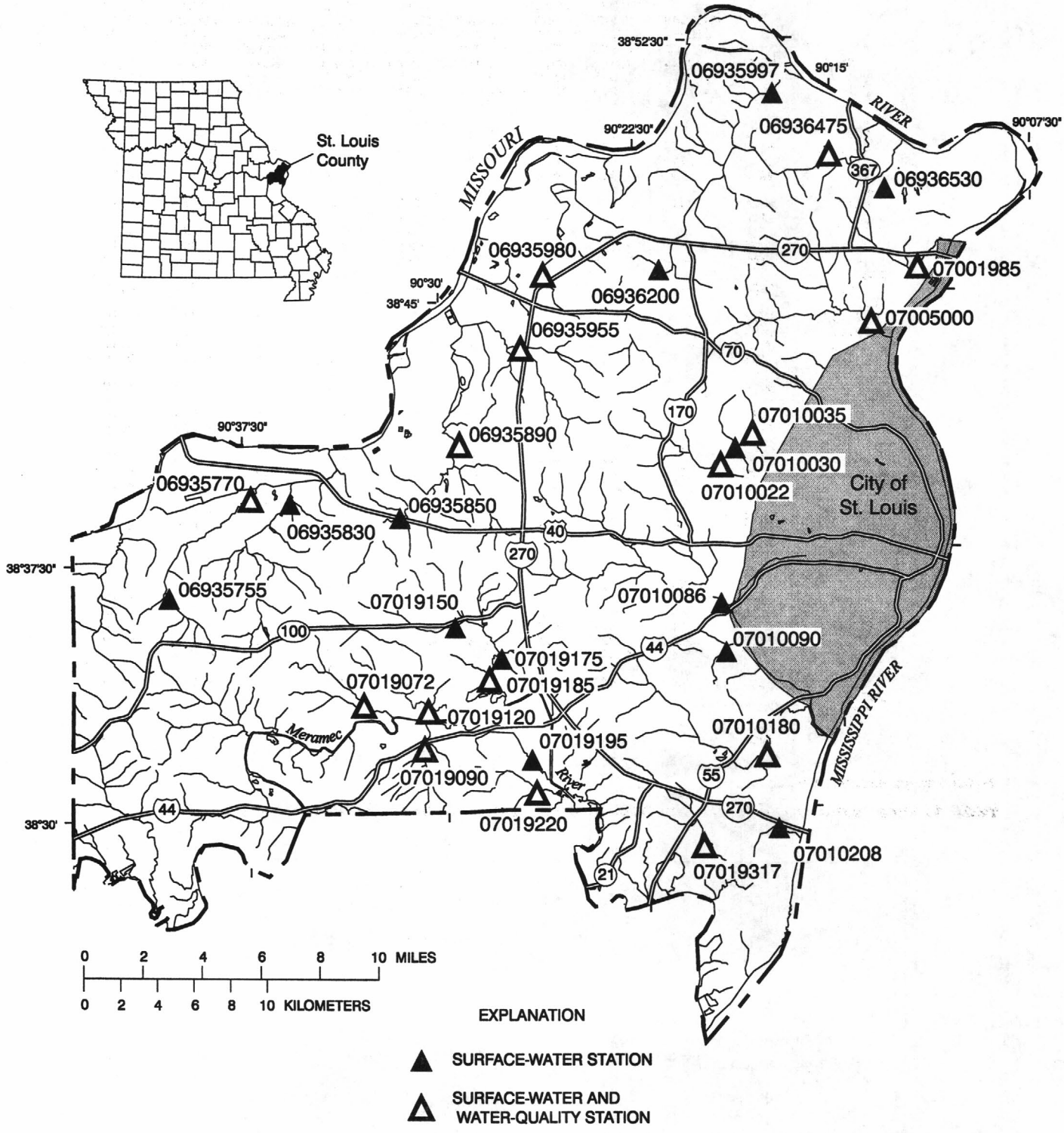

Figure 8. Location of Metropolitan St. Louis Sewer District stations.

WATER-QUALITY BLANK DATA
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	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)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)
NOV										
01...	1330	.10	E.01	<.2	.4	E.1	<.1	.9	<.020	<.10
02...	0950	.37	.07	<.2	2.1	.3	<.1	E.2	--	--
03...	0830	.09	.02	<.2	1.7	<.3	<.1	<.3	<.020	<.10
15...	1000	.08	E.01	E.1	.5	6.0	.1	1.9	<.020	E.10
JAN										
04...	0810	.04	<.01	<.2	.3	2.3	<.1	.8	<.020	<.10
11...	0800	--	--	--	--	--	--	--	<.020	<.10
11...	1046	--	--	--	--	--	--	--	<.020	<.10
19...	1035	.06	E.01	<.2	.4	E.2	<.1	E.3	<.020	<.10
24...	1450	--	--	--	--	--	--	--	<.020	<.10
FEB										
16...	0800	--	--	--	--	--	--	--	<.020	<.10
MAR										
14...	0916	--	--	--	--	--	--	--	<.020	<.10
21...	1506	--	--	--	--	--	--	--	<.020	<.10
22...	0745	--	--	--	--	--	--	--	<.020	E.10
22...	1451	.10	.02	<.2	.6	.6	<.1	.6	<.020	E.10
APR										
12...	0730	--	--	--	--	--	--	--	<.020	<.10
MAY										
01...	1330	.08	.02	<.2	.5	E.1	<.1	.6	<.020	<.10
03...	0935	--	--	--	--	--	--	--	<.020	<.10
10...	1335	.05	E.01	<.2	.6	3.3	<.1	1.5	<.020	<.10
16...	1400	.03	<.01	<.2	.2	<.3	<.1	<.3	<.020	<.10
17...	0930	.15	.02	<.2	1.1	E.1	<.1	<.3	<.020	<.10
17...	1200	.05	<.01	<.2	.5	.8	.1	2.0	<.020	<.10
22...	1300	.11	E.01	<.2	.1	<.3	.3	<.3	--	--
23...	0815	.06	E.01	<.2	.5	.3	<.1	1.6	<.020	<.10
24...	1030	<.02	<.01	<.2	<.1	<.3	<.1	<.3	<.020	<.10
JUN										
06...	1230	--	--	--	--	--	--	--	<.020	<.10
JUL										
05...	1500	.06	E.01	<.2	.6	.5	<.1	1.5	<.020	<.10
06...	1000	--	--	--	--	--	--	--	<.020	<.10
17...	1546	--	--	--	--	--	--	--	<.020	E.10
18...	1546	.16	.02	<.2	.9	<.3	<.1	<.3	<.020	<.10
25...	0820	.13	.02	<.2	1.0	<.3	<.1	E.2	<.020	<.10
25...	1630	.06	E.01	<.2	<.1	<.3	<.1	<.3	<.020	<.10
AUG										
09...	1501	.14	.08	<.2	.4	E.2	<.1	.4	<.020	<.10
NOV										
SEP										
06...	1434	--	--	--	--	--	--	--	<.020	<.10
07...	0946	--	--	--	--	--	--	--	<.020	<.10

E--Laboratory estimated value.

Table 3. Water-quality blank data for Ambient water-quality network for 2000 water year.

WATER-QUALITY BLANK DATA--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)
NOV										
01...	<.050	<.010	<.050	<.010	<.050	<10	1	<10	<15	<28
02...	<.050	<.010	<.050	<.010	<.050	<10	<1	<10	--	--
03...	<.050	<.010	<.050	<.010	<.050	<10	3	<10	<15	<28
15...	<.050	<.010	<.050	<.010	<.050	<10	<1	<10	<15	<28
JAN										
04...	<.050	<.010	<.050	<.010	<.050	<10	1	<10	<15	E15
11...	<.050	<.010	<.050	<.010	<.050	--	--	--	--	--
19...	<.050	<.010	<.050	.015	<.050	<10	<1	<10	<15	<28
24...	<.050	<.010	<.050	.013	<.050	--	--	--	--	--
FEB										
16...	<.050	<.010	<.050	<.010	<.050	--	--	--	--	--
MAR										
14...	<.050	<.010	<.050	<.010	<.050	--	--	--	--	--
21...	<.050	<.010	<.050	.012	<.050	--	--	--	--	--
22...	<.050	<.010	<.050	<.010	<.050	<10	<1	<10	<15	E21
APR										
12...	<.050	<.010	<.050	<.010	<.050	--	--	--	--	--
MAY										
01...	<.050	<.010	<.050	<.010	<.050	<10	<1	<10	E8	<28
03...	<.050	<.010	<.050	<.010	<.050	--	--	--	--	--
10...	<.050	<.010	<.050	<.010	<.050	<10	<10	<10	<15	<28
16...	<.050	<.010	<.050	<.010	<.050	<10	<10	<10	<15	<28
17...	<.050	<.010	<.050	<.010	<.050	<10	<10	<10	<15	<28
17...	<.050	<.010	<.050	<.010	<.050	<10	<10	<10	<15	E14
22...	--	--	--	--	--	<10	<10	<10	E11	E17
23...	<.050	<.010	<.050	<.010	<.050	<10	<10	<10	E9	E16
24...	<.050	<.010	<.050	<.010	<.050	<10	<10	<10	<15	<28
JUN										
06...	<.050	<.010	<.050	<.010	<.050	--	--	--	--	--
JUL										
05...	<.050	<.010	<.050	<.010	<.050	<10	<10	<10	<15	E19
06...	<.050	<.010	<.050	<.010	<.050	--	--	--	--	--
17...	<.050	<.010	<.050	<.010	<.050	--	--	--	--	--
18...	<.050	<.010	<.050	<.010	<.050	<10	<10	<10	<15	<28
25...	<.050	<.010	<.050	<.010	<.050	<10	<10	<10	<15	<28
25...	<.050	<.010	<.050	<.010	<.050	<10	<10	<10	<15	<28
AUG										
09...	<.050	<.010	<.050	<.010	<.050	--	--	--	--	--
SEP										
06...	<.050	<.010	<.050	<.010	<.050	--	--	--	--	--
07...	<.050	<.010	<.050	<.010	<.050	--	--	--	--	--

DATE	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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										
01...	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
02...	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
03...	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
15...	<8.0	<.1	<10	<10	<100	<1	<2	<.3	35	<31
JAN										
04...	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
19...	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
MAR										
22...	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
MAY										
01...	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
10...	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
16...	<8.0	<.1	<10	E10	<100	<1	E2	<.3	<20	<31
17...	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
17...	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
22...	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
23...	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
24...	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
JUL										
05...	<8.0	.3	E9	<10	<100	3	<2	<.3	<20	<31
18...	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
25...	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
25...	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
AUG										
09...	<8.0	<.1	<10	E10	<100	<1	<2	<.3	E12	<31

E--Laboratory estimated value.

Table 3. Water-quality blank data for Ambient water-quality network for 2000 water year.--Continued

05490600 DES MOINES RIVER AT ST. FRANCISVILLE, MO

WATER-QUALITY RECORDS

LOCATIAON.--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 current year.

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 (°C)	SEDI-MENT SUS-PENDED (mg/L)
Oct. 7	1430	5.10	17.0	96
Mar. 11	1100	7.37	12.0	156
Apr. 26	1415	6.56	16.0	132
May 12	0930	5.73	20.0	109
June 15	1505	11.98	23.0	570
Aug. 31	1315	7.00	33.0	153

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.--Estimated daily discharges: Jan. 22 to Feb. 9. Water-discharge records poor. U.S. Army Corps of Engineers 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	40	11	7.3	7.4	7.6	121	10	17	13	62	12	3.6
2	23	10	7.5	7.8	7.2	85	12	17	10	47	12	3.4
3	22	10	9.1	9.2	7.0	61	12	15	11	43	10	4.0
4	32	9.6	11	11	7.0	43	12	15	10	40	8.8	2.7
5	18	9.5	18	10	6.8	32	11	14	9.5	350	8.6	3.1
6	13	11	20	11	6.8	27	11	13	12	776	8.8	2.6
7	9.0	10	16	11	6.6	23	10	11	12	870	8.1	2.3
8	6.7	10	16	10	6.6	21	9.1	11	9.9	248	27	2.1
9	5.9	9.6	20	10	6.4	18	8.6	19	9.6	116	29	1.9
10	6.5	9.1	20	11	7.6	16	7.5	46	8.0	71	40	1.7
11	6.5	8.7	11	11	8.1	14	10	44	8.3	1580	51	1.6
12	6.0	8.5	8.7	10	9.3	12	11	30	8.9	823	30	2.0
13	6.1	8.2	8.7	9.6	8.8	11	9.1	24	9.8	248	21	1.3
14	7.6	8.0	7.6	9.0	9.5	11	8.4	18	45	105	16	1.7
15	8.3	7.7	11	8.9	10	12	7.7	15	114	64	13	1.7
16	9.6	7.4	15	8.6	11	22	7.6	11	100	47	11	1.1
17	9.7	7.2	13	7.7	11	19	8.4	11	117	39	24	1.1
18	10	7.5	12	7.5	46	14	9.7	11	61	40	17	1.3
19	10	7.6	9.6	7.7	45	23	11	9.9	39	39	11	1.0
20	15	7.1	8.8	8.0	18	50	26	8.7	30	45	9.4	2.0
21	22	7.2	7.6	7.4	10	43	120	7.7	67	151	8.1	2.5
22	18	7.3	7.2	7.2	10	30	64	7.3	80	67	7.5	3.3
23	14	7.3	7.3	7.0	10	23	39	6.9	37	43	7.4	5.0
24	15	8.0	7.5	6.8	11	21	42	5.4	733	32	6.7	8.0
25	17	8.0	7.6	6.6	52	21	35	4.6	1450	26	5.9	16
26	15	13	7.3	6.4	885	18	29	6.3	1560	22	5.7	43
27	14	8.9	7.4	6.2	209	16	24	7.8	1070	19	5.4	33
28	12	8.2	7.3	6.0	88	14	24	9.4	364	17	5.1	42
29	11	12	7.3	6.8	60	12	20	10	157	16	4.9	27
30	12	8.8	7.2	7.5	---	11	18	10	91	15	4.3	15
31	12	---	7.9	8.0	---	11	---	15	---	13	3.7	---
MEAN	13.8	8.88	10.7	8.46	54.5	27.6	20.9	14.5	208	196	13.9	7.90
MAX	40	13	20	11	885	121	120	46	1560	1580	51	43
MIN	5.9	7.1	7.2	6.0	6.4	11	7.5	4.6	8.0	13	3.7	1.0
IN.	.04	.02	.03	.02	.15	.08	.06	.04	.58	.56	.04	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2000, BY WATER YEAR (WY)

MEAN	166	176	139	164	325	436	472	377	384	246	115	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	.00	.007	.019	.19	.42	8.56	2.35	1.39	.06	.21	.019	.17
(WY)	1957	1957	1957	1957	1957	1956	1956	1956	1956	1936	1936	1937

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1922 - 2000	
ANNUAL MEAN	235		48.6		265	
HIGHEST ANNUAL MEAN					927	1993
LOWEST ANNUAL MEAN					17.6	1956
HIGHEST DAILY MEAN	4300	Apr 16	1580	Jul 11	19900	Apr 22 1973
LOWEST DAILY MEAN	.44	Sep 16	1.0	Sep 19	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	.62	Sep 12	1.3	Sep 13	.00	Several Years
INSTANTANEOUS PEAK FLOW	---		2990	Jul 11	26400	Apr 22 1973
INSTANTANEOUS PEAK STAGE	---		10.24	Jul 11	21.71	Apr 22 1973
INSTANTANEOUS LOW FLOW	---		.85	Sep 20	.00	Several Years
ANNUAL RUNOFF (INCHES)	7.98		1.65		8.99	
10 PERCENT EXCEEDS	512		54		546	
50 PERCENT EXCEEDS	40		11		38	
90 PERCENT EXCEEDS	4.5		6.2		2.3	

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV 23...	0830	7.3	6.2	56	7.6	645	10.7	260	280	58	220
JAN 18...	1630	7.5	15.0	106	7.8	491	1.9	K1	3	K7	175
MAR 14...	0820	11	11.3	88	8.2	587	5.0	K4	K6	22	152
MAY 23...	0745	6.9	6.8	76	7.8	559	20.5	43	150	220	180
JUL 11...	0830	1040	6.1	73	7.5	189	24.2	K9500	K11000	K10000	69
SEP 13...	1015	1.5	6.0	65	7.7	490	19.3	K88	58	380	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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV 23...	224	273	0	300	83.6	21.0	4.5	21.9	13.9	.3	104
JAN 18...	177	216	0	--	--	--	--	--	--	--	--
MAR 14...	157	192	0	--	--	--	--	--	--	--	--
MAY 23...	182	222	0	240	66.5	18.6	4.9	20.0	15.9	.2	87.3
JUL 11...	69	84	0	--	--	--	--	--	--	--	--
SEP 13...	188	229	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV 23...	<.020	.48	<.050	<.010	<.050	<.010	E.030	18	9	401	21
JAN 18...	.011	.31	.039	<.010	.012	.011	<.050	--	--	--	--
MAR 14...	<.020	.35	.064	<.010	<.050	<.010	<.050	--	--	--	--
MAY 23...	<.020	.75	<.050	<.010	<.050	<.010	.103	16	20	346	<15
JUL 11...	<.020	4.3	.483	.082	.165	.047	1.47	--	--	--	--
SEP 13...	<.020	.66	.087	<.010	E.030	.011	.074	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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 23...	133	<8.0	<.1	E5	70	<100	<1	224	<.3	95	<31
MAY 23...	326	<8.0	<.1	<10	20	<100	3	311	<.3	<20	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.--No estimated daily discharges. Records fair except for 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	3.2	3.3	3.3	4.0	214	10	11	7.2	83	14	5.1
2	26	2.8	3.4	3.6	3.8	163	10	11	6.2	68	13	4.2
3	20	2.5	3.7	3.9	3.7	95	9.8	10	5.2	121	14	4.6
4	19	2.6	5.0	4.2	4.0	55	9.0	9.7	5.9	131	11	4.4
5	31	2.8	11	5.2	4.3	41	8.7	9.5	8.8	142	11	4.1
6	19	2.6	11	2.8	4.7	33	8.1	8.1	7.2	705	9.6	3.5
7	14	2.8	9.5	3.2	5.4	28	8.0	8.5	6.7	485	9.1	3.7
8	11	3.0	7.8	2.8	6.1	24	8.8	8.1	6.1	227	18	3.4
9	9.1	3.1	22	3.3	6.6	21	8.7	21	5.3	121	26	3.3
10	8.2	3.3	41	3.9	7.3	17	11	41	4.4	76	23	3.1
11	7.2	3.2	21	3.2	7.1	15	9.5	30	8.4	1250	16	3.3
12	6.6	2.9	13	3.2	9.6	14	9.2	23	11	3380	15	3.5
13	5.8	3.8	9.2	3.2	6.2	14	8.2	17	9.3	1080	13	3.9
14	5.3	4.0	7.1	4.7	6.8	13	8.0	13	99	363	11	4.1
15	4.8	3.2	6.8	2.4	6.4	14	7.5	12	53	174	10	4.1
16	5.2	3.4	6.4	3.0	6.4	33	7.5	12	41	96	9.2	3.7
17	5.2	3.1	5.8	3.1	6.1	35	13	9.7	31	66	8.7	3.4
18	6.0	3.8	5.6	3.2	30	29	8.9	8.7	24	58	9.2	3.2
19	4.8	2.4	5.3	3.3	76	66	9.9	7.4	18	144	8.8	3.1
20	5.4	2.1	5.3	6.5	57	99	11	6.8	23	81	7.8	2.8
21	5.8	2.4	5.2	3.2	32	74	21	7.4	127	51	7.8	3.5
22	4.8	3.1	3.6	2.8	24	47	44	6.9	47	46	7.8	4.3
23	4.0	3.5	3.7	3.0	18	34	31	7.1	39	33	15	4.5
24	4.5	3.5	3.5	3.5	17	27	24	7.4	1420	27	12	7.4
25	4.3	5.9	3.3	3.1	68	23	19	6.2	2380	26	8.6	11
26	6.5	5.2	3.3	3.4	966	21	16	6.1	2200	22	8.2	9.8
27	11	4.4	3.5	3.2	413	20	15	10	1270	19	7.3	12
28	6.5	5.3	3.4	3.1	115	16	15	10	419	17	6.8	9.8
29	5.2	3.9	3.1	3.7	77	14	14	8.4	209	16	6.4	7.9
30	4.5	3.5	3.6	3.9	---	12	13	7.4	128	15	6.1	5.9
31	3.0	---	4.1	4.0	---	11	---	7.8	---	14	5.8	---
MEAN	10.3	3.38	7.85	3.51	68.7	42.6	13.2	11.7	287	295	11.3	5.02
MAX	45	5.9	41	6.5	966	214	44	41	2380	3380	26	12
MIN	3.0	2.1	3.1	2.4	3.7	11	7.5	6.1	4.4	14	5.8	2.8
IN.	.03	.01	.02	.01	.19	.13	.04	.03	.82	.86	.03	.01

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

MEAN	140	169	156	161	346	409	439	439	359	289	129	159
MAX	1677	1463	1399	946	1389	1346	1809	3196	2594	2792	2242	2510
(WY)	1987	1986	1983	1946	1985	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	249		63.1		265	
HIGHEST ANNUAL MEAN					861	1993
LOWEST ANNUAL MEAN					14.2	1989
HIGHEST DAILY MEAN	5000	Apr 17	3380	Jul 12	16500	Sep 22 1986
LOWEST DAILY MEAN	1.4	Sep 11	2.1	Nov 20	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	2.2	Sep 9	2.7	Nov 2	.00	Many Years
INSTANTANEOUS PEAK FLOW	---		3680	Jul 12	17700	Jun 30 1933
INSTANTANEOUS PEAK STAGE	---		16.54	Jul 12	31.33	Sep 22 1986
INSTANTANEOUS LOW FLOW	---		2.1	Nov 20	.00	Many Years
ANNUAL RUNOFF (INCHES)	8.60		2.19		9.17	
10 PERCENT EXCEEDS	639		70		550	
50 PERCENT EXCEEDS	36		8.3		31	
90 PERCENT EXCEEDS	3.1		3.2		2.1	

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.--No estimated daily discharges. Records poor. U.S. Army Corps of Engineers 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	67	11	7.5	14	5.6	169	9.1	10	19	73	15	6.1
2	41	8.4	7.2	17	5.2	114	9.8	11	17	51	13	5.7
3	30	11	7.7	19	5.1	69	9.4	8.7	17	91	16	4.7
4	28	13	8.8	37	4.8	43	8.8	7.8	20	78	12	4.2
5	27	13	13	13	5.2	32	8.5	7.8	22	58	11	3.5
6	17	14	11	11	5.1	26	8.2	7.2	20	110	10	3.1
7	12	14	9.9	9.8	5.7	22	8.0	7.6	20	356	9.7	3.2
8	10	8.0	9.6	10	6.5	20	9.1	7.4	20	256	27	3.2
9	9.1	9.1	56	17	9.0	17	8.6	20	22	134	38	2.7
10	8.5	10	52	17	23	15	8.4	30	19	78	23	2.3
11	7.7	9.7	28	16	27	14	9.8	20	24	100	16	2.3
12	6.9	9.8	22	12	18	13	10	18	26	1080	23	3.2
13	7.0	9.1	20	11	17	12	8.9	16	19	364	16	3.1
14	6.6	9.4	21	18	15	13	8.5	14	74	176	14	2.8
15	7.1	9.0	26	14	14	14	8.3	12	48	101	12	3.6
16	6.2	8.6	25	11	12	33	9.6	10	28	64	9.5	2.5
17	6.5	7.7	18	9.4	11	34	11	9.8	28	46	8.4	1.6
18	7.8	7.2	14	9.3	29	22	9.7	9.8	27	39	8.6	1.4
19	7.8	7.3	22	7.6	40	30	9.4	8.5	21	96	6.8	1.3
20	7.5	8.7	34	7.8	37	59	13	8.5	23	47	8.9	2.9
21	7.8	7.8	18	6.3	20	47	34	9.0	59	36	8.3	4.9
22	7.8	8.2	15	5.4	16	31	29	10	54	51	8.5	4.7
23	7.7	8.8	14	5.9	14	24	21	9.7	34	37	30	6.8
24	6.0	9.6	14	5.6	17	20	21	10	1660	25	72	8.3
25	8.2	9.6	13	5.8	36	18	17	9.9	1730	20	26	13
26	9.0	9.9	13	5.7	574	15	14	13	1970	20	15	20
27	7.9	8.2	13	5.7	216	16	13	20	903	20	11	16
28	8.0	6.8	12	5.7	95	13	14	18	376	19	9.4	11
29	8.9	8.5	13	6.2	61	11	13	19	196	18	8.0	8.1
30	9.9	7.8	14	6.2	---	10	11	21	114	17	7.1	6.3
31	11	---	14	6.2	---	9.7	---	20	---	16	6.5	---
MEAN	13.3	9.44	18.2	11.1	46.4	31.8	12.4	13.0	254	119	16.1	5.42
MAX	67	14	56	37	574	169	34	30	1970	1080	72	20
MIN	6.0	6.8	7.2	5.4	4.8	9.7	8.0	7.2	17	16	6.5	1.3
IN.	.03	.02	.05	.03	.11	.08	.03	.03	.63	.30	.04	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2000, BY WATER YEAR (WY)

MEAN	184	197	173	195	350	456	529	448	410	301	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1922 - 2000	
ANNUAL MEAN	274		45.5		296	
HIGHEST ANNUAL MEAN					923	1993
LOWEST ANNUAL MEAN					18.0	1989
HIGHEST DAILY MEAN	5130	Apr 17	1970	Jun 26	17900	Apr 23 1973
LOWEST DAILY MEAN	1.1	Sep 10	1.3	Sep 19	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	2.0	Sep 8	2.3	Sep 14	.00	Many Years
INSTANTANEOUS PEAK FLOW	---		3390	Jun 24	20700	Apr 22 1973
INSTANTANEOUS PEAK STAGE	---		15.91	Jun 24	33.03	Apr 22 1973
INSTANTANEOUS LOW FLOW	---		.85	Sep 19	.00	Many Years
ANNUAL RUNOFF (INCHES)	8.23		1.37		8.90	
10 PERCENT EXCEEDS	610		55		572	
50 PERCENT EXCEEDS	57		13		46	
90 PERCENT EXCEEDS	7.1		6.1		4.2	

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.--Estimated daily discharges: Oct. 2-4. Records fair except for estimated daily discharges 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	5.9	2.4	4.4	4.5	181	13	27	4.2	39	5.8	4.4
2	15	3.9	2.4	4.8	4.6	89	12	21	3.9	29	5.5	4.1
3	10	3.6	3.0	4.9	4.8	98	12	16	3.0	41	5.2	3.7
4	8.0	4.4	4.2	5.6	4.9	56	12	14	5.7	45	5.0	3.4
5	12	4.1	12	4.6	4.6	39	11	11	30	39	6.3	3.1
6	11	4.5	9.7	5.8	4.8	30	9.6	9.7	19	22	6.4	2.7
7	8.6	4.5	6.1	4.8	5.0	25	10	9.3	13	17	5.3	2.5
8	6.2	4.0	4.4	7.4	5.4	22	12	8.3	9.7	16	16	2.3
9	5.4	4.2	39	6.8	5.6	18	11	17	8.1	19	20	2.1
10	3.9	4.0	51	6.6	6.0	16	10	25	8.5	15	18	1.8
11	2.5	3.6	21	6.2	5.9	14	11	22	9.6	116	11	1.9
12	2.3	3.8	14	5.4	5.2	12	11	16	8.6	22	7.9	2.2
13	4.4	4.0	10	4.8	5.9	12	11	12	6.8	14	6.6	1.9
14	3.9	4.3	8.2	4.4	5.2	13	10	9.1	67	16	7.0	2.1
15	3.3	3.8	7.8	5.3	5.3	13	9.9	8.2	30	18	6.3	1.6
16	3.4	3.6	8.8	5.0	5.4	50	10	7.3	22	15	5.8	1.6
17	4.0	3.2	7.2	5.3	5.3	46	12	7.3	24	14	4.9	1.3
18	4.1	3.2	6.1	5.4	49	31	13	6.9	24	14	4.5	1.3
19	5.0	3.1	5.7	5.5	65	36	11	6.5	17	36	4.1	1.4
20	5.8	3.0	5.3	4.3	38	56	14	5.7	20	28	4.4	2.5
21	4.9	2.9	4.2	4.7	26	50	23	5.6	23	16	3.9	3.1
22	4.6	2.7	4.2	4.4	24	48	28	5.7	71	13	6.6	2.8
23	4.1	3.2	3.8	4.2	18	38	20	5.4	84	11	16	3.2
24	3.8	3.6	3.9	4.1	18	30	16	5.4	683	9.0	34	5.5
25	3.5	3.6	3.8	4.1	36	25	14	4.5	1640	8.1	58	9.0
26	3.3	3.6	4.1	3.6	833	22	13	5.2	1940	7.2	39	8.6
27	3.9	3.6	4.1	3.4	186	22	13	8.4	1300	6.4	21	5.8
28	4.1	4.5	3.8	3.3	84	19	13	7.2	272	6.2	14	3.8
29	3.6	3.1	4.1	3.5	65	17	12	6.9	103	6.6	9.6	2.8
30	3.2	2.9	4.3	3.8	---	15	13	5.8	58	6.5	7.3	2.3
31	2.9	---	3.9	4.1	---	13	---	5.3	---	6.0	5.5	---
MEAN	6.80	3.75	8.79	4.85	52.8	37.3	13.0	10.5	217	21.6	12.0	3.16
MAX	50	5.9	51	7.4	833	181	28	27	1940	116	58	9.0
MIN	2.3	2.7	2.4	3.3	4.5	12	9.6	4.5	3.0	6.0	3.9	1.3
IN.	.02	.01	.03	.01	.14	.11	.04	.03	.62	.06	.04	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2000, BY WATER YEAR (WY)

MEAN	164	180	162	203	325	453	504	460	301	310	117	153
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1946 - 2000	
ANNUAL MEAN	264		32.2		277	
HIGHEST ANNUAL MEAN					837	1993
LOWEST ANNUAL MEAN					18.7	1989
HIGHEST DAILY MEAN	4550	Apr 17	1940	Jun 26	15100	Apr 23 1973
LOWEST DAILY MEAN	.57	Sep 11	1.3	Sep 17,18	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	.90	Sep 6	1.6	Sep 13	.00	Several Years
INSTANTANEOUS PEAK FLOW	---		2480	Jun 25	17700	Apr 23 1973
INSTANTANEOUS PEAK STAGE	---		11.70	Jun 25	27.14	Apr 23 1973
INSTANTANEOUS LOW FLOW	---		1.0	Sep 15,17,19	.00	Several Years
ANNUAL RUNOFF (INCHES)	9.11		1.12		9.58	
10 PERCENT EXCEEDS	604		38		581	
50 PERCENT EXCEEDS	24		6.6		39	
90 PERCENT EXCEEDS	2.9		3.2		2.7	

05499900 TROUBLESOME CREEK NEAR EWING, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 36°59'52", long 91°50'37", in 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.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV 23...	1125	.04	3.4	31	7.2	360	10.5	K590	K560	160	154
JAN 19...	0835	.44	13.1	94	7.1	474	1.8	48	44	58	155
MAR 14...	1035	2.2	10.3	83	7.7	272	6.5	56	56	--	77
MAY 22...	1445	.24	7.2	76	7.6	514	18.1	K27	K35	280	169
JUL 11...	1120	2.5	5.2	65	7.4	290	26.7	1100	K570	540	103
SEP 13...	1242	.10	4.6	51	7.3	366	20.5	190	260	200	135

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV 23...	158	192	0	160	45.8	10.4	8.6	11.0	13.5	.3	9.2
JAN 19...	160	195	0	--	--	--	--	--	--	--	--
MAR 14...	75	92	0	--	--	--	--	--	--	--	--
MAY 22...	174	213	0	200	57.6	14.8	6.5	27.2	18.3	.3	9.2
JUL 11...	103	126	0	--	--	--	--	--	--	--	--
SEP 13...	138	168	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV 23...	<.020	1.3	<.050	<.010	E.049	.038	.187	47	13	215	E10
JAN 19...	.013	1.7	.89	.031	.081	.022	.183	--	--	--	--
MAR 14...	<.020	.94	1.21	.032	.078	.029	.085	--	--	--	--
MAY 22...	.036	.82	<.050	<.010	<.050	<.010	E.047	26	<10	316	<15
JUL 11...	.053	.90	.551	.038	.064	.041	.157	--	--	--	--
SEP 13...	.065	.88	.074	<.010	E.034	.026	.141	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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 23...	59	<8.0	<.1	<10	460	<100	<1	4090	<.3	148	<31
MAY 22...	110	<8.0	<.1	<10	90	<100	<1	373	<.3	<20	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.--Estimated daily discharges: Feb. 3-8. Water-discharge records fair except for period Jan. 21 to Feb. 8, which is 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	4.5	6.8	7.8	6.3	277	32	12	13	151	12	12
2	101	3.8	6.7	8.5	5.9	492	30	12	9.3	319	11	10
3	70	3.8	7.4	8.9	5.7	238	27	9.9	7.9	353	9.0	8.3
4	50	4.1	9.9	10	5.5	136	28	9.5	13	214	8.0	7.1
5	34	5.7	21	9.5	5.3	99	24	8.2	33	171	7.3	5.9
6	27	6.0	16	9.3	5.2	80	22	7.3	32	141	6.7	4.7
7	22	5.6	15	8.8	5.1	62	22	7.5	35	91	10	4.1
8	17	5.3	17	8.5	5.0	51	21	7.3	21	64	47	3.2
9	14	4.5	31	8.4	5.9	41	20	13	14	50	127	3.2
10	11	4.0	60	9.0	6.5	34	19	15	12	41	236	3.1
11	8.6	3.9	134	8.6	8.6	29	19	18	11	35	96	2.9
12	7.2	3.6	68	8.6	8.7	33	19	19	14	29	52	3.8
13	5.0	3.0	43	8.8	9.0	27	18	19	14	28	34	3.3
14	3.0	2.9	30	8.1	9.5	25	19	14	115	25	27	2.9
15	3.6	3.9	23	7.9	9.3	24	19	13	402	21	22	2.4
16	4.4	4.7	19	7.8	8.7	46	19	11	417	19	17	2.1
17	3.0	18	16	7.3	8.7	192	18	8.8	187	17	15	1.9
18	2.5	30	14	7.3	23	181	18	7.7	121	16	16	1.5
19	2.6	19	13	7.3	66	144	17	7.0	74	16	11	1.6
20	3.5	13	12	10	145	193	23	6.3	73	16	11	2.4
21	4.6	11	13	7.3	93	168	21	6.3	399	14	11	2.6
22	6.0	9.5	10	7.3	64	180	18	6.3	91	19	12	2.9
23	6.1	9.4	9.5	7.1	51	135	17	5.7	49	17	11	3.1
24	4.7	8.6	8.8	7.1	42	101	17	5.2	439	13	11	3.5
25	3.3	7.2	7.9	7.0	49	79	17	4.5	2030	12	9.5	6.9
26	4.3	6.4	7.9	6.8	775	66	15	6.7	3940	10	41	6.1
27	5.2	5.9	8.0	6.8	1320	61	18	22	2620	9.2	71	5.0
28	5.1	5.9	7.7	6.5	407	50	18	23	1020	8.9	43	10
29	4.3	6.2	8.1	6.4	190	57	15	36	494	11	28	12
30	4.2	7.0	8.6	6.4	---	47	14	22	250	12	19	8.5
31	7.9	---	8.3	6.4	---	38	---	18	---	11	15	---
MEAN	20.9	7.55	21.3	7.92	115	109	20.1	12.3	432	63.0	33.8	4.90
MAX	202	30	134	10	1320	492	32	36	3940	353	236	12
MIN	2.5	2.9	6.7	6.4	5.0	24	14	4.5	7.9	8.9	6.7	1.5
IN.	.04	.01	.04	.01	.20	.20	.04	.02	.78	.12	.06	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2000, BY WATER YEAR (WY)

MEAN	268	299	257	298	523	707	776	735	484	390	171	197
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1935 - 2000	
ANNUAL MEAN	488		69.9		418	
HIGHEST ANNUAL MEAN					1147	1993
LOWEST ANNUAL MEAN					27.4	1989
HIGHEST DAILY MEAN	8080	Jan 23	3940	Jun 26	18800	Jun 8 1947
LOWEST DAILY MEAN	.95	Sep 11	1.5	Sep 18	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	1.5	Sep 8	2.1	Sep 15	.00	Several Years
INSTANTANEOUS PEAK FLOW	---		4700	Jun 26	19700	Jun 8 1947
INSTANTANEOUS PEAK STAGE	---		8.39	Jun 26	19.50	Jun 8 1947
INSTANTANEOUS LOW FLOW	---		1.4	Sep 18,19	.00	Several Years
ANNUAL RUNOFF (INCHES)	10.68		1.54		9.16	
10 PERCENT EXCEEDS	1230		129		1000	
50 PERCENT EXCEEDS	63		12		62	
90 PERCENT EXCEEDS	3.5		4.3		4.3	

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
OCT												
25...	1245	3.2	9.4	81	7.7	344	9.3	K12	23	43	133	134
NOV												
23...	1415	9.5	10.4	97	7.9	436	12.4	20	22	43	158	162
DEC												
07...	1150	15	13.4	105	7.6	436	5.3	LA	K25	64	166	171
JAN												
19...	1035	6.8	14.3	103	8.1	531	1.9	K6	K10	K18	152	153
FEB												
07...	1250	7.7	15.5	114	7.9	578	3.1	K1	K1	K11	186	189
MAR												
14...	1245	24	11.1	91	8.4	348	7.4	K27	K38	84	104	102
APR												
03...	1250	27	10.0	96	8.2	408	13.8	30	38	K85	133	136
MAY												
22...	1245	6.4	10.3	118	8.2	557	22.6	K1	24	28	191	196
JUN												
12...	0955	15	6.7	82	8.0	411	25.5	46	K32	K64	140	140
JUL												
11...	1400	35	9.6	127	8.4	349	29.7	140	62	K140	128	128
AUG												
01...	1035	12	6.6	83	8.1	437	27.4	64	110	88	163	164
SEP												
13...	1415	3.2	9.9	111	8.3	355	21.0	K11	24	23	131	133

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)
OCT												
25...	164	0	--	--	--	--	--	--	--	--	<.020	.44
NOV												
23...	198	0	200	59.8	11.9	5.5	13.1	12.6	.2	44.0	<.020	.65
DEC												
07...	209	0	--	--	--	--	--	--	--	--	<.020	.40
JAN												
19...	187	0	220	62.2	15.0	5.0	16.9	16.6	.2	68.3	<.020	.63
FEB												
07...	230	0	--	--	--	--	--	--	--	--	<.020	.39
MAR												
14...	118	3	--	--	--	--	--	--	--	--	<.020	.74
APR												
03...	166	0	--	--	--	--	--	--	--	--	<.020	.78
MAY												
22...	239	0	250	74.1	17.0	4.7	20.0	14.4	.2	77.9	<.020	.54
JUN												
12...	170	0	--	--	--	--	--	--	--	--	<.020	.23
JUL												
11...	143	6	160	48.5	9.18	4.9	10.0	8.2	.2	34.8	.021	.90
AUG												
01...	200	0	--	--	--	--	--	--	--	--	<.020	.71
SEP												
13...	157	0	--	--	--	--	--	--	--	--	.023	.55

K--Results based on colony count outside the acceptable range (non-ideal colony count).
LA--Laboratory accident.

05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L) (00340)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (UG/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT												
25...	.097	<.010	.065	.015	<.050	--	--	--	--	--	--	--
NOV												
23...	<.050	<.010	<.050	<.010	E.049	22	7	259	40	122	<8.0	<.1
DEC												
07...	<.050	<.010	<.050	<.010	<.050	--	--	--	--	--	--	--
JAN												
19...	.590	.013	E.038	<.010	<.050	21	1	304	E12	63	<8.0	<.1
FEB												
07...	.105	<.010	<.050	<.010	<.050	--	--	--	--	--	--	--
MAR												
14...	.958	.017	.058	.013	E.031	--	--	--	--	--	--	--
APR												
03...	<.050	<.010	E.030	<.010	.074	--	--	--	--	--	--	--
MAY												
22...	<.050	<.010	<.050	.014	E.047	29	<10	348	<15	135	<8.0	<.1
JUN												
12...	<.050	<.010	E.034	.014	<.050	--	--	--	--	--	--	--
JUL												
11...	.281	<.010	<.050	.015	.095	34	21	219	93	298	<8.0	<.1
AUG												
01...	<.050	<.010	E.030	.025	.098	--	--	--	--	--	--	--
SEP												
13...	.051	<.010	.054	.035	.087	--	--	--	--	--	--	--

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)
NOV											
23...	<10	70	<100	<1	21	<.3	33	<31	<.003	<.002	<.002
JAN											
19...	<10	120	<100	<1	70	<.3	24	<31	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	--	--	--	--	<.003	<.002	<.002
APR											
03...	--	--	--	--	--	--	--	--	<.003	<.002	<.002
MAY											
22...	<10	E10	<100	<1	39	<.3	<20	<31	<.003	.019	<.002
JUN											
12...	--	--	--	--	--	--	--	--	<.003	.029	<.002
JUL											
11...	<10	80	<100	<1	31	<.3	E12	<31	<.003	.010	<.002

DATE	ATRAZINE, WATER, DISS, REC (µg/L) (39632)	METHYL AZINPHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	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)	DIAZINON, DISSOLVED (µg/L) (39572)
NOV											
23...	.194	<.001	<.002	<.002	<.003	<.003	<.004	.013	<.002	E.072	<.002
MAR											
14...	.533	<.001	<.002	<.002	<.003	<.003	<.004	.015	<.002	E.12	<.002
APR											
03...	.241	<.001	<.002	<.002	<.003	<.003	<.004	<.010	<.002	E.096	<.002
MAY											
22...	.362	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.079	<.002
JUN											
12...	7.09	<.001	<.002	<.002	<.003	<.003	<.004	.006	<.002	E.23	<.002
JUL											
11...	1.90	<.001	<.002	<.002	<.003	<.003	<.004	.012	<.002	E.12	<.002

E--Laboratory estimated value.

05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)	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)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)
NOV											
23...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.150	<.004
MAR											
14...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.080	<.004
APR											
03...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.036	<.004
MAY											
22...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.065	<.004
JUN											
12...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	5.66	<.004
JUL											
11...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.425	<.004

DATE	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	PARA-THION, DIS-SOLVED (µg/L) (39542)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	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)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	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)
NOV											
23...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	E.009	<.007	<.004	<.013
MAR											
14...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
APR											
03...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
MAY											
22...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
JUN											
12...	<.004	<.003	<.004	<.040	<.004	<.004	<.002	E.005	<.007	<.004	<.013
JUL											
11...	<.004	<.003	<.004	<.040	<.004	<.004	<.002	E.003	<.007	<.004	<.013

DATE	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	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)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	P,P' DDE DISSOLV (µg/L) (34653)
NOV											
23...	<.003	.014	.074	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
MAR											
14...	<.003	.023	.014	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
APR											
03...	<.003	.017	.016	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
MAY											
22...	<.003	.010	.016	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
JUN											
12...	<.003	.023	.011	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
JUL											
11...	<.003	.069	.011	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006

E--Laboratory estimated value.

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.--Estimated daily discharges: Oct. 15 to Nov. 4, Nov. 6-8, Nov 17 to Dec. 6, Dec. 11 to Jan. 3, Jan. 5-10, 13-19, 21-27, Feb. 15, March 7-11, April 1-3, 16, 28, May 6, June 30, July 1, 6-9, 23-26, Aug. 4-7, 18-21, 23, Sept. 10, 11, and 27-29. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	2.5	3.9	4.8	4.8	28	43	18	14	30	11	3.0
2	19	2.2	3.8	5.2	4.5	104	38	16	11	46	8.3	2.4
3	16	2.6	4.1	5.4	4.5	53	36	14	10	195	7.3	2.3
4	17	2.8	5.0	6.8	4.2	32	43	12	26	61	6.8	2.2
5	16	3.2	16	6.5	4.2	27	40	11	26	47	6.3	1.7
6	12	3.7	11	6.2	4.2	36	33	10	33	40	6.0	1.5
7	7.9	3.4	8.4	5.8	4.4	28	30	11	16	34	5.8	1.4
8	6.3	2.8	6.5	5.7	4.5	26	30	10	12	29	151	1.3
9	5.1	2.6	7.4	5.6	4.5	24	26	12	10	25	93	1.5
10	4.1	2.3	9.7	6.0	4.4	22	23	18	8.5	21	43	1.4
11	3.6	2.1	60	9.1	4.9	21	22	29	7.1	17	34	1.3
12	2.7	2.0	40	9.8	4.9	33	21	18	8.2	14	19	3.2
13	2.0	1.9	27	7.0	4.9	30	19	13	8.3	13	15	3.7
14	1.8	1.7	18	6.7	5.7	28	18	11	465	12	14	3.4
15	2.0	1.7	13	6.5	6.3	33	16	9.7	112	11	12	2.1
16	2.4	1.5	9.9	6.3	4.7	38	18	7.4	71	9.7	6.5	1.7
17	1.8	8.0	8.0	5.8	4.1	60	23	5.3	47	9.1	5.9	1.6
18	1.6	20	6.7	5.7	7.1	98	18	4.2	46	9.3	6.2	1.6
19	1.8	12	6.0	5.6	9.3	73	16	3.5	31	11	5.5	1.7
20	2.0	7.5	5.6	8.0	16	94	23	3.7	30	21	5.0	2.1
21	2.5	6.0	6.8	6.3	10	72	24	5.4	250	12	5.1	3.4
22	3.0	5.8	5.6	5.7	7.4	58	20	4.8	56	9.7	5.5	3.6
23	3.1	5.7	5.2	5.0	7.3	45	20	4.3	47	9.6	5.1	3.8
24	2.7	5.2	5.0	4.7	7.4	44	22	4.3	229	9.1	5.6	8.2
25	2.0	4.5	5.1	4.6	16	45	19	4.0	314	8.9	21	8.8
26	2.4	3.8	5.0	4.5	102	46	17	6.1	1250	8.5	11	8.1
27	3.0	3.3	5.1	4.4	159	300	20	73	243	8.3	5.3	7.0
28	2.8	3.4	4.9	4.3	74	108	21	59	77	22	5.0	9.0
29	2.7	3.5	5.1	4.4	38	64	23	44	47	46	5.3	10
30	2.7	4.0	5.4	4.9	---	54	22	39	35	32	4.8	8.2
31	4.0	---	5.0	4.7	---	46	---	23	---	15	3.8	---
MEAN	6.29	4.39	10.6	5.87	18.4	57.1	24.8	16.2	118	27.0	17.4	3.71
MAX	39	20	60	9.8	159	300	43	73	1250	195	151	10
MIN	1.6	1.5	3.8	4.3	4.1	21	16	3.5	7.1	8.3	3.8	1.3
IN.	.02	.01	.03	.02	.05	.18	.07	.05	.35	.08	.05	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2000, BY WATER YEAR (WY)

MEAN	152	180	171	184	320	447	490	477	308	247	107	125
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1935 - 2000	
ANNUAL MEAN	268		25.7		264	
HIGHEST ANNUAL MEAN					748	1973
LOWEST ANNUAL MEAN					22.1	1989
HIGHEST DAILY MEAN	8260	Jan 22	1250	Jun 26	32600	Apr 21 1973
LOWEST DAILY MEAN	1.5	Nov 16	1.3	Sep 8,11	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	1.9	Nov 10	1.4	Sep 5	.00	Several Years
INSTANTANEOUS PEAK FLOW	---		2290	Jun 26	57400	Apr 21 1973
INSTANTANEOUS PEAK STAGE	---		12.92	Jun 26	29.70	Apr 21 1973
INSTANTANEOUS LOW FLOW	---		1.3	Sep 8,11	.00	Several Years
ANNUAL RUNOFF (INCHES)	9.75		.94		9.61	
10 PERCENT EXCEEDS	572		46		477	
50 PERCENT EXCEEDS	59		8.2		40	
90 PERCENT EXCEEDS	2.8		2.6		3.5	

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.--No estimated daily discharges. Records fair except for those below 2 ft^3/s, which are poor. High flow 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48	.96	1.2	1.8	1.9	4.7	4.7	2.3	1.4	3.0	96	.97
2	.52	.80	1.3	1.9	1.9	3.5	4.4	2.3	1.0	11	4.8	.88
3	1.5	.88	1.5	2.0	2.1	3.4	4.0	2.2	.79	97	2.9	.80
4	1.2	1.0	3.0	2.1	2.0	3.4	3.6	2.2	1.7	154	2.4	.80
5	.90	.94	5.0	1.9	2.0	2.9	3.4	2.1	3.1	202	2.2	.70
6	.81	.97	2.9	1.9	2.0	2.7	3.2	2.1	2.2	117	2.1	.59
7	.55	1.0	2.0	1.9	2.0	2.6	3.2	2.3	1.5	51	2.0	.55
8	1.2	1.1	1.8	1.9	1.9	2.4	3.2	2.1	1.1	7.6	50	.53
9	1.1	1.0	6.7	2.1	2.0	2.1	3.0	2.8	1.1	5.3	16	.48
10	1.3	1.0	5.9	2.4	2.1	2.0	2.9	2.8	.97	4.5	3.8	.46
11	.68	.93	2.8	2.1	2.2	2.0	2.9	2.3	1.6	5.2	2.8	.49
12	.47	1.1	2.3	2.0	2.0	2.0	2.7	1.9	1.6	4.1	2.4	.52
13	.82	1.1	2.1	1.9	2.0	1.9	2.7	1.6	1.3	3.4	2.2	.29
14	1.4	1.3	2.0	1.8	2.1	2.0	2.7	1.5	2.1	3.1	2.2	.44
15	1.4	1.1	2.7	1.9	2.0	2.0	2.6	1.4	3.8	2.9	2.0	.43
16	.68	1.1	2.3	1.9	1.9	3.7	2.7	1.2	2.0	2.8	1.9	.19
17	.57	1.1	2.2	1.9	1.8	3.2	2.7	1.2	1.6	3.0	1.8	.39
18	.59	1.1	2.1	1.9	12	2.7	2.6	1.1	1.4	3.8	1.7	.05
19	.64	1.1	2.0	2.0	6.1	13	2.6	.90	1.1	3.8	1.7	.06
20	.80	1.1	2.1	2.0	3.5	8.7	2.7	.94	8.5	2.8	2.0	.47
21	.78	1.2	1.8	1.8	2.8	3.9	2.5	1.2	36	2.3	1.9	.70
22	.77	1.2	1.8	2.1	2.5	3.4	2.4	1.1	5.6	2.1	1.8	.69
23	.78	1.5	1.8	2.0	2.4	2.8	2.7	1.0	3.0	2.0	1.9	.64
24	.88	1.3	1.8	1.8	2.5	2.6	2.8	.88	9.6	2.0	2.7	1.1
25	.95	1.2	1.9	1.8	17	2.4	2.5	.67	11	1.8	2.2	1.8
26	.94	1.2	1.9	1.7	67	42	2.3	3.1	86	1.8	1.9	1.3
27	.97	1.2	1.9	1.7	11	207	2.9	15	105	1.7	1.7	1.2
28	1.0	1.2	1.9	1.7	4.1	62	2.8	3.7	20	61	1.5	.69
29	.90	1.2	1.9	1.8	3.7	9.3	2.6	2.4	4.8	71	1.3	.62
30	.93	1.1	1.9	1.9	---	6.6	2.3	1.8	3.5	66	1.2	.64
31	.87	---	1.8	1.9	---	5.3	---	1.6	---	65	1.0	---
MEAN	.88	1.10	2.40	1.92	5.81	13.5	2.94	2.25	10.8	31.1	7.16	.65
MAX	1.5	1.5	6.7	2.4	67	207	4.7	15	105	202	96	1.8
MIN	.47	.80	1.2	1.7	1.8	1.9	2.3	.67	.79	1.7	1.0	.05
IN.	.03	.04	.09	.07	.20	.50	.11	.08	.39	1.16	.27	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2000[a], BY WATER YEAR (WY)

MEAN	14.3	20.4	18.8	15.7	30.7	38.0	39.1	37.7	21.5	19.8	15.0	14.5
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1962 - 2000[a]	
ANNUAL MEAN	20.1		6.75		23.7	
HIGHEST ANNUAL MEAN					57.9	1993
LOWEST ANNUAL MEAN					5.33	1989
HIGHEST DAILY MEAN	301	Jan 26	207	Mar 27	1470	Sep 25 1970
LOWEST DAILY MEAN	.00	Sep 11-13,26	.05	Sep 18	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	.10	Sep 8	.26	Sep 13	.00	Several Years
INSTANTANEOUS PEAK FLOW	---		414	Jul 5	3120	Sep 23 1970
INSTANTANEOUS PEAK STAGE	---		4.89	Jul 5	9.24	May 14 1970
INSTANTANEOUS LOW FLOW	---		.00	Sep 16-19	.00	Several Years
ANNUAL RUNOFF (INCHES)	8.81		2.96		10.40	
10 PERCENT EXCEEDS	65		5.7		52	
50 PERCENT EXCEEDS	3.9		2.0		4.7	
90 PERCENT EXCEEDS	.67		.80		.55	

[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. 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.--No estimated daily discharges. Records fair. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	4.3	4.7	6.3	10	232	23	13	7.6	26	4.2	9.1
2	26	4.2	4.4	6.3	10	85	24	12	9.5	19	3.6	9.4
3	21	4.0	4.7	6.4	9.2	65	20	10	7.9	209	3.4	11
4	16	4.2	5.6	6.5	10	57	21	9.7	54	61	5.8	10
5	11	5.0	9.2	7.2	8.6	41	19	8.5	71	72	9.4	8.6
6	9.0	5.2	12	6.1	8.2	31	16	7.4	45	33	6.8	9.4
7	11	4.9	24	6.6	8.9	26	15	9.3	40	22	9.9	8.4
8	8.1	5.3	28	6.6	8.8	16	14	8.3	20	17	57	6.6
9	6.7	5.3	20	7.6	7.7	14	14	15	15	13	80	6.7
10	5.4	5.3	17	7.1	7.9	10	13	25	7.8	10	100	8.0
11	4.8	5.6	11	6.6	9.9	9.0	11	28	7.6	8.6	37	8.8
12	4.2	5.2	8.9	6.2	6.6	8.8	8.7	32	10	8.4	20	12
13	3.8	5.6	10	6.2	6.7	8.2	8.1	20	13	7.5	17	10
14	3.7	5.9	8.7	5.8	9.4	7.1	6.9	15	592	5.9	16	7.6
15	3.5	5.7	8.2	6.9	8.7	8.6	7.7	12	283	5.9	13	7.3
16	3.4	5.2	7.0	6.8	7.5	193	8.5	8.5	99	5.6	9.9	9.5
17	3.2	4.9	6.7	6.4	7.5	109	11	4.4	62	7.3	9.8	10
18	3.2	5.5	7.0	6.4	30	65	8.1	4.4	38	7.1	9.0	5.4
19	3.1	5.1	6.9	6.1	56	63	7.2	4.3	26	6.6	12	5.1
20	3.9	4.7	6.7	6.1	53	78	11	4.3	25	6.3	11	6.9
21	6.1	4.9	7.8	8.1	36	60	22	5.2	58	10	14	9.7
22	4.9	5.3	6.8	8.9	23	47	15	5.5	31	10	11	7.8
23	3.7	6.6	6.3	8.4	17	48	19	5.0	38	7.4	11	7.9
24	4.2	6.3	6.3	9.7	44	43	20	4.6	542	5.7	50	21
25	3.7	6.6	6.3	9.0	95	34	15	4.6	540	4.7	37	21
26	4.1	11	6.1	9.7	382	24	9.3	6.8	1630	4.8	18	44
27	4.1	9.3	6.5	8.8	99	76	12	25	505	4.0	13	32
28	4.1	6.0	6.8	11	48	49	26	16	143	13	8.9	26
29	4.0	5.1	5.8	11	45	25	17	12	63	10	5.5	17
30	4.2	4.8	6.1	9.7	---	19	12	17	37	5.8	4.8	11
31	3.9	---	5.6	10	---	18	---	10	---	5.0	6.9	---
MEAN	8.13	5.57	9.07	7.56	37.0	50.6	14.5	11.7	167	20.4	19.8	12.2
MAX	54	11	28	11	382	232	26	32	1630	209	100	44
MIN	3.1	4.0	4.4	5.8	6.6	7.1	6.9	4.3	7.6	4.0	3.4	5.1
IN.	.03	.02	.03	.02	.11	.16	.04	.04	.51	.06	.06	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000, BY WATER YEAR (WY)

MEAN	188	295	206	124	332	428	475	587	265	394	91.3	112
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1974 - 2000	
ANNUAL MEAN	258		30.1		292	
HIGHEST ANNUAL MEAN					767	1993
LOWEST ANNUAL MEAN					30.1	2000
HIGHEST DAILY MEAN	7120	May 5	1630	Jun 26	18800	Apr 3 1983
LOWEST DAILY MEAN	1.6	Sep 5	3.1	Oct 19	.18	Aug 7 1988
ANNUAL SEVEN-DAY MINIMUM	2.0	Sep 5	3.4	Oct 13	.44	Oct 20 1991
INSTANTANEOUS PEAK FLOW	---		2550	Jun 26	22000	Apr 3 1983
INSTANTANEOUS PEAK STAGE	---		7.20	Jun 26	18.80	Apr 3 1983
INSTANTANEOUS LOW FLOW	---		2.5	Aug 30	.17	Oct 23 1991
ANNUAL RUNOFF (INCHES)	9.61		1.12		10.86	
10 PERCENT EXCEEDS	522		51		537	
50 PERCENT EXCEEDS	20		9.1		31	
90 PERCENT EXCEEDS	3.4		4.7		4.2	

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. 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.--No estimated daily discharges. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	11	3.9	10	11	211	11	8.8	8.0	36	7.2	7.6
2	30	9.9	3.9	12	10	134	10	9.8	6.0	26	6.4	7.3
3	20	9.7	4.6	13	12	70	9.3	9.1	5.1	309	6.0	6.8
4	15	14	6.5	15	12	56	8.4	8.1	26	312	5.4	6.7
5	13	10	18	6.9	12	43	8.0	7.8	119	142	7.7	5.7
6	14	20	16	11	11	29	7.6	6.9	34	71	10	5.3
7	17	27	18	8.6	9.4	22	7.4	7.7	29	36	9.2	5.3
8	24	27	49	9.9	10	17	7.3	9.1	18	25	182	6.0
9	25	25	108	11	10	13	6.5	16	12	19	113	6.1
10	16	25	82	11	8.5	11	6.7	23	8.6	15	78	6.7
11	8.7	20	47	9.0	6.7	9.7	6.2	18	8.9	13	51	8.3
12	10	11	25	7.0	5.9	9.4	6.0	15	9.2	11	22	12
13	16	9.3	17	6.0	6.0	8.7	6.0	20	9.0	11	14	12
14	12	7.1	18	5.6	5.8	9.1	5.9	13	188	9.5	11	12
15	12	4.8	18	6.4	6.6	12	5.8	9.7	580	7.9	9.5	10
16	9.9	5.9	15	7.3	5.4	84	6.8	7.7	130	7.5	7.7	8.2
17	4.5	9.5	12	8.2	4.3	191	8.0	7.3	72	8.7	6.4	5.0
18	4.2	11	11	8.4	19	68	7.6	6.1	39	16	5.2	6.7
19	3.7	4.3	11	8.8	43	50	5.9	5.9	24	14	5.4	8.3
20	4.4	4.6	11	5.1	48	66	6.2	5.4	27	8.8	8.1	9.0
21	5.3	4.6	9.4	4.3	41	58	6.8	5.9	119	7.7	8.5	11
22	7.7	4.6	13	8.1	26	43	10	7.3	57	10	8.8	12
23	6.5	7.7	12	6.5	14	31	8.5	7.9	33	9.7	9.5	16
24	5.1	7.6	12	4.6	12	24	11	7.1	605	8.1	44	20
25	7.1	7.5	13	7.1	51	20	9.3	5.5	999	6.9	56	26
26	9.0	8.3	15	5.3	439	24	6.6	10	2680	6.6	30	26
27	3.6	10	12	5.6	182	67	7.9	60	1050	6.5	18	35
28	6.9	16	6.0	6.7	63	68	12	24	306	35	12	22
29	8.6	8.3	9.2	5.7	35	29	16	13	118	28	9.6	18
30	11	5.0	11	5.4	---	18	11	11	58	12	8.1	16
31	10	---	8.7	7.6	---	13	---	12	---	8.3	7.6	---
MEAN	13.2	11.5	19.9	7.97	38.6	48.7	8.19	12.2	246	39.9	25.1	11.9
MAX	69	27	108	15	439	211	16	60	2680	312	182	35
MIN	3.6	4.3	3.9	4.3	4.3	8.7	5.8	5.4	5.1	6.5	5.2	5.0
IN.	.03	.03	.05	.02	.09	.12	.02	.03	.57	.10	.06	.03

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

MEAN	146	178	151	212	363	453	541	514	426	343	121	161
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	362		39.9		303	
HIGHEST ANNUAL MEAN					1037	1993
LOWEST ANNUAL MEAN					36.2	1989
HIGHEST DAILY MEAN	8510	Jan 23	2680	Jun 26	18600	Jun 7 1947
LOWEST DAILY MEAN	1.8	Sep 1,7	3.6	Oct 27	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	2.7	Sep 5	5.2	Oct 17	.00	Many Years
INSTANTANEOUS PEAK FLOW	---		3270	Jun 26	23000	Jun 7 1947
INSTANTANEOUS PEAK STAGE	---		11.70	Jun 26	27.40	Jun 7 1947
INSTANTANEOUS LOW FLOW	---		3.6	Oct 27	.00	Many Years
ANNUAL RUNOFF (INCHES)	10.23		1.13		8.56	
10 PERCENT EXCEEDS	747		58		697	
50 PERCENT EXCEEDS	33		10		32	
90 PERCENT EXCEEDS	5.1		5.8		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 Highway 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.--No estimated daily discharges. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.45	3.8	2.0	.10	1.5	5.5	.13	.84
2	.00	.00	.00	.00	.61	2.4	1.6	.09	.77	3.8	.08	.72
3	.00	.00	.00	.00	.54	1.9	1.1	.07	.37	25	.10	.49
4	.00	.00	.00	.00	.11	1.3	.72	.06	1.0	33	.17	.43
5	.00	.00	.00	.00	.07	.94	.61	.05	2.4	84	.20	.44
6	.00	.00	.00	.00	.06	.65	.47	.06	3.0	51	.19	.37
7	.00	.00	.00	.00	.05	.46	.37	.08	6.6	17	1.4	.30
8	.00	.00	.00	.00	.04	.41	.39	.06	3.3	7.3	187	.26
9	.00	.00	.00	.00	.04	.29	.34	.14	1.9	3.8	140	.20
10	.00	.00	.00	.00	.05	.26	.28	.17	1.2	2.3	28	.17
11	.00	.00	.00	.00	.05	.26	.20	.19	.99	1.7	9.0	.16
12	.00	.00	.00	.00	.06	.25	.17	.12	.92	1.2	4.0	.21
13	.00	.00	.00	.00	.07	.25	.16	.11	.45	.78	2.3	.15
14	.00	.00	.00	.00	.09	.25	.13	.06	160	.54	1.5	.11
15	.00	.00	.00	.00	.10	.30	.08	.04	72	.30	1.0	.08
16	.00	.00	.00	.00	.10	.96	.12	.03	27	.24	.66	.05
17	.00	.00	.00	.00	.10	2.0	.17	.03	9.6	.41	.42	.04
18	.00	.00	.00	.00	1.7	1.6	.16	.02	4.3	.83	.26	.03
19	.00	.00	.00	.00	3.0	3.9	.17	.02	2.2	1.6	.28	.02
20	.00	.00	.00	.00	1.2	5.0	.12	.02	31	1.4	.51	.02
21	.00	.00	.00	.00	.65	3.5	.10	.02	174	2.3	.43	.06
22	.00	.00	.00	.00	.43	2.3	.11	.02	66	2.4	.30	.05
23	.00	.00	.00	.01	.26	1.7	.11	.02	17	1.3	.50	.04
24	.00	.00	.00	.02	.31	1.4	.12	.01	257	.73	203	.03
25	.00	.00	.00	.04	23	1.2	.09	.01	529	.48	92	.02
26	.00	.00	.00	.05	20	1.1	.07	1.4	525	.29	22	.01
27	.00	.00	.00	.07	7.1	1.6	.06	97	299	.22	8.7	.00
28	.00	.00	.00	.08	14	1.7	.05	58	33	.20	4.7	.00
29	.00	.00	.00	.10	5.6	1.0	.08	16	14	.19	2.7	.00
30	.00	.00	.00	.17	---	1.9	.09	6.1	7.7	.19	1.7	.00
31	.00	---	.00	.29	---	2.7	---	3.5	---	.17	.99	---
MEAN	.000	.000	.000	.027	2.75	1.53	.34	5.92	75.1	8.07	23.0	.18
MAX	.00	.00	.00	.29	23	5.0	2.0	97	529	84	203	.84
MIN	.00	.00	.00	.00	.04	.25	.05	.01	.37	.17	.08	.00
IN.	.00	.00	.00	.00	.04	.02	.00	.09	1.05	.12	.33	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2000, BY WATER YEAR (WY)

MEAN	26.4	63.2	55.7	29.1	78.0	83.8	92.5	140	69.5	82.6	24.7	38.6
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1980 - 2000	
ANNUAL MEAN	57.7		9.68		65.3	
HIGHEST ANNUAL MEAN					179	1993
LOWEST ANNUAL MEAN					7.38	1989
HIGHEST DAILY MEAN	1470	Jan 22	529	Jun 25	7150	May 7 1996
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 16	.00	Oct 1	.00	Many Years
INSTANTANEOUS PEAK FLOW	---		697	Jun 25	9460	May 7 1996
INSTANTANEOUS PEAK STAGE	---		4.95	Jun 25	13.62	May 7 1996
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Many Years
ANNUAL RUNOFF (INCHES)	9.79		1.65		11.09	
10 PERCENT EXCEEDS	96		6.8		91	
50 PERCENT EXCEEDS	1.0		.11		3.2	
90 PERCENT EXCEEDS	.00		.00		.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.--No estimated daily discharges. Records good. U.S. Army Corps of Engineers 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	6.6	4.3	2.0	3.0	2.6	15	7.4	2.2	13	28	8.5	22
2	4.5	4.0	2.0	3.0	2.4	11	6.4	1.9	9.8	19	8.4	19
3	4.1	3.2	2.2	2.8	2.7	9.5	5.5	1.5	7.4	41	6.6	18
4	3.6	5.4	3.7	2.5	2.6	7.9	4.9	1.3	6.6	193	6.0	17
5	4.1	7.0	30	2.4	2.5	7.7	5.0	1.4	27	168	5.0	15
6	5.2	6.6	25	2.8	2.8	6.6	4.2	1.5	15	57	4.9	13
7	4.2	7.7	18	2.8	2.6	5.8	4.7	1.6	9.7	25	6.2	12
8	5.8	5.6	12	2.7	2.3	5.1	4.3	1.2	7.4	16	24	12
9	5.5	4.6	14	2.6	2.3	5.4	4.3	2.0	7.1	11	53	12
10	13	4.2	15	2.7	2.5	4.5	4.7	18	5.6	8.5	47	11
11	8.2	3.4	14	2.4	2.3	4.3	4.0	13	39	7.6	26	11
12	5.6	2.6	9.1	2.4	2.3	4.3	3.6	10	713	6.0	14	13
13	6.0	3.6	8.3	2.5	2.5	4.1	3.3	6.6	223	5.1	9.8	14
14	4.4	3.4	6.1	2.5	2.5	5.7	3.2	3.9	71	4.6	7.5	15
15	2.8	3.2	5.1	2.5	2.4	5.8	2.8	2.5	49	5.2	6.0	12
16	2.3	3.4	4.3	2.3	2.7	10	2.6	1.5	39	5.1	5.2	11
17	3.2	3.3	3.5	2.2	2.3	23	2.6	1.0	34	6.1	4.9	10
18	2.4	2.6	3.8	2.2	17	23	2.4	1.3	33	8.1	4.5	9.6
19	1.5	2.4	3.5	2.2	44	48	2.2	3.1	35	11	8.0	8.9
20	1.8	2.4	3.1	1.9	24	51	2.3	2.7	36	14	9.3	9.5
21	2.4	3.0	2.7	1.8	16	54	3.2	1.8	631	17	21	9.7
22	2.2	2.7	2.6	2.2	9.7	30	2.6	1.3	443	11	22	10
23	1.9	4.0	2.7	2.3	7.0	18	2.2	1.8	99	8.1	16	11
24	1.8	5.0	2.8	2.2	5.7	13	2.5	1.6	115	6.5	4520	11
25	2.4	5.7	2.7	2.2	16	9.4	2.1	2.7	144	5.5	4750	13
26	2.4	7.5	2.7	2.0	178	7.8	1.7	9.0	1130	4.7	703	17
27	5.7	5.1	2.5	1.9	145	26	1.9	372	540	4.3	132	18
28	4.3	3.4	2.2	2.0	53	133	2.1	471	119	5.1	74	14
29	4.1	2.4	2.3	2.2	25	34	2.1	102	48	9.5	47	13
30	3.3	2.0	2.8	2.5	---	16	1.9	38	40	13	34	13
31	4.4	---	3.1	2.6	---	10	---	21	---	8.5	26	---
MEAN	4.18	4.12	6.90	2.40	20.1	19.6	3.42	35.5	156	23.6	342	13.2
MAX	13	7.7	30	3.0	178	133	7.4	471	1130	193	4750	22
MIN	1.5	2.0	2.0	1.8	2.3	4.1	1.7	1.0	5.6	4.3	4.5	8.9
IN.	.02	.02	.03	.01	.09	.10	.02	.18	.75	.12	1.69	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	125	130	130	136	221	306	330	303	240	207	56.6	132
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL MEAN	200		52.9		193	
HIGHEST ANNUAL MEAN					509	1969
LOWEST ANNUAL MEAN					10.7	1954
HIGHEST DAILY MEAN	3440	Mar 9	4750	Aug 25	24000	Oct 13 1969
LOWEST DAILY MEAN	1.4	Sep 5	1.0	May 17	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	2.0	Oct 18	1.5	May 2	.00	Many Years
INSTANTANEOUS PEAK FLOW	---		6740	Aug 24	31800	Sep 23 1993
INSTANTANEOUS PEAK STAGE	---		18.35	Aug 24	28.66	Sep 23 1993
INSTANTANEOUS LOW FLOW	---		.72	May 18	.00	Many Years
ANNUAL RUNOFF (INCHES)	11.65		3.09		11.24	
10 PERCENT EXCEEDS	488		40		318	
50 PERCENT EXCEEDS	17		5.5		16	
90 PERCENT EXCEEDS	2.7		2.2		1.6	

05506100 LONG BRANCH NEAR SANTA FE, MO

LOCATION.--Lat 39°21'21", long 91°50'03", in 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.

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.--Estimated daily discharge: Oct. 19. Records fair. U.S. Army Corps of Engineers 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	.00	.00	.00	.21	.02	30	2.0	.76	12	38	.61	10
2	.00	.00	.00	.16	.00	27	2.1	.64	6.8	18	.46	7.4
3	.05	.00	.00	.22	.01	23	2.0	.56	4.3	17	.37	6.0
4	.05	.00	.23	.29	.03	17	2.0	.43	4.3	34	.34	5.1
5	.02	.00	.67	.20	.02	12	1.6	.34	5.0	35	.56	4.5
6	.01	.00	.20	.20	.02	8.7	1.7	.40	4.4	29	.67	3.9
7	.00	.00	.16	.16	.03	7.6	1.4	.47	3.1	21	1.1	2.9
8	.17	.00	.16	.16	.03	5.9	1.4	.53	2.3	17	2.0	1.9
9	.08	.00	2.7	.17	.03	3.5	1.3	1.0	1.8	12	28	1.7
10	.03	.00	1.7	.17	.05	3.2	1.1	.83	1.5	8.2	24	1.4
11	.02	.00	.55	.16	.04	3.2	1.1	.68	3.4	6.5	18	1.2
12	.00	.00	.30	.15	.08	2.9	1.6	.55	15	5.3	17	2.1
13	.00	.00	.29	.16	.08	2.6	1.4	.42	49	3.5	9.8	1.3
14	.00	.00	.55	.09	.09	2.6	1.1	.21	34	2.4	5.5	.92
15	.00	.00	.73	.08	.08	2.3	.98	.26	53	1.9	3.7	.72
16	.00	.00	.40	.08	.08	7.4	1.1	.23	90	1.5	2.5	.53
17	.00	.00	2.1	.10	.11	25	1.0	.13	49	1.8	1.8	.46
18	.00	.00	1.8	.08	15	32	.99	.12	26	1.6	1.4	.46
19	.00	.00	1.1	.08	27	48	1.1	.16	25	1.6	1.2	.56
20	.00	.00	1.0	.05	29	41	1.2	.14	48	1.5	1.8	.51
21	.00	.00	.75	.03	15	24	1.2	.25	383	1.6	1.4	.46
22	.00	.00	.65	.06	8.6	17	.91	.44	229	3.2	1.0	.63
23	.00	.04	.46	.05	7.2	14	.67	.40	99	2.1	.87	.92
24	.00	.01	.41	.02	6.8	12	.60	.35	102	1.5	3040	.71
25	.00	.00	.29	.03	20	9.1	.46	.24	173	1.1	3010	1.6
26	.00	.00	.29	.01	244	6.6	.48	1.4	1170	.82	1350	1.3
27	.00	.00	.25	.00	183	5.9	1.4	233	408	.58	238	1.1
28	.00	.00	.24	.00	70	4.2	2.0	116	165	.89	48	1.7
29	.00	.00	.26	.05	33	3.2	.98	92	49	1.1	27	1.1
30	.00	.00	.28	.07	---	2.8	.77	37	54	.90	18	.85
31	.00	---	.25	.02	---	2.3	---	20	---	.77	14	---
MEAN	.014	.002	.61	.11	22.7	13.1	1.25	16.4	109	8.75	254	2.13
MAX	.17	.04	2.7	.29	244	48	2.1	233	1170	38	3040	10
MIN	.00	.00	.00	.00	.00	2.3	.46	.12	1.5	.58	.34	.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

MEAN	55.2	56.5	14.1	166	332	164	225	354	173	204	82.5	11.1
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000	
ANNUAL MEAN	191		35.8		143	
HIGHEST ANNUAL MEAN					237	1999
LOWEST ANNUAL MEAN					35.8	2000
HIGHEST DAILY MEAN	4180	Jul 1	3040	Aug 24	12400	Feb 21 1997
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days 1999-2000
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 28	.00	Oct 12,Nov 25	.00	Aug 28,Oct 12,Nov 25 1999
INSTANTANEOUS PEAK FLOW	---		5260	Aug 25	16700	Jul 4 1998
INSTANTANEOUS PEAK STAGE	---		12.18	Aug 25	22.43	Jul 4 1998
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Many Days 1999-2000
10 PERCENT EXCEEDS	530		29		271	
50 PERCENT EXCEEDS	11		.88		12	
90 PERCENT EXCEEDS	.00		.00		.16	

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.--Estimated daily discharges: Dec. 29 to Jan. 1, Jan. 31, Feb. 1, and May 3. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	.77	1.6	1.8	1.7	33	12	4.1	8.8	418	15	8.3
2	30	.71	1.1	1.7	1.3	37	9.5	5.0	5.7	104	9.5	7.0
3	16	.59	1.0	1.9	1.1	98	7.4	4.4	3.6	100	6.8	6.1
4	9.2	.71	1.4	2.8	.95	46	5.9	3.9	6.8	213	4.8	5.3
5	5.7	.81	2.6	3.0	1.2	29	4.5	3.1	12	148	3.7	4.6
6	3.6	.93	2.3	3.2	1.3	34	4.0	2.8	7.8	108	3.2	4.2
7	4.3	.98	1.8	2.9	1.2	30	3.7	3.1	10	76	5.1	3.8
8	4.9	1.0	3.2	2.6	1.1	20	3.4	2.7	20	44	63	3.7
9	3.6	1.1	21	2.4	1.2	14	3.3	5.1	12	25	244	3.4
10	5.6	1.0	24	2.6	1.3	10	3.0	6.6	7.8	17	105	3.4
11	6.5	1.0	21	2.6	1.3	8.1	2.8	7.5	6.1	12	58	3.5
12	4.2	2.1	14	2.7	1.5	6.8	2.4	23	5.6	9.4	26	5.2
13	1.9	3.5	16	2.7	1.8	6.1	2.4	13	4.5	7.4	13	4.6
14	.99	1.6	16	2.0	1.2	5.6	2.2	7.2	136	6.1	8.6	4.0
15	1.0	.89	11	2.1	1.6	5.9	1.8	4.9	204	5.0	6.3	3.5
16	.85	.80	7.8	2.2	1.5	27	1.6	3.8	276	4.4	5.1	3.7
17	.58	.67	6.1	2.0	1.6	102	1.5	2.9	93	5.6	4.0	5.2
18	.30	.55	4.6	2.3	18	162	1.9	2.1	38	6.4	2.7	4.4
19	.22	.79	3.8	2.9	27	81	1.9	1.4	25	115	2.5	3.4
20	.40	.79	3.4	2.6	26	49	2.5	1.2	97	124	4.5	3.6
21	.44	.92	2.3	2.1	27	39	3.7	1.3	426	31	4.6	3.2
22	.61	.93	2.6	1.9	16	41	4.5	1.4	337	15	5.9	2.9
23	.66	1.5	3.3	2.2	15	35	3.5	1.4	98	8.8	8.5	3.1
24	.60	1.3	3.3	1.9	9.6	25	3.2	1.0	492	6.1	1390	3.4
25	.55	1.4	2.8	1.6	18	18	3.9	.76	1580	4.6	863	8.6
26	.48	1.5	2.5	1.2	175	14	3.8	3.4	1690	3.5	119	6.8
27	.53	1.3	2.4	1.0	321	12	4.1	171	1200	2.8	49	7.0
28	.57	1.1	2.2	.90	128	15	5.1	275	529	3.3	27	21
29	.43	1.0	2.1	1.1	58	43	3.8	72	114	113	17	19
30	.58	1.3	2.0	1.3	---	22	3.3	28	526	58	13	9.9
31	.71	---	1.9	1.5	---	15	---	15	---	25	10	---
MEAN	6.42	1.12	6.16	2.12	29.7	35.0	3.89	21.9	266	58.7	99.9	5.86
MAX	93	3.5	24	3.2	321	162	12	275	1690	418	1390	21
MIN	.22	.55	1.0	.90	.95	5.6	1.5	.76	3.6	2.8	2.5	2.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	6.42	1.12	6.16	307	218	262	387	357	169	148	51.3	13.0
MAX	6.42	1.12	6.16	611	414	490	771	693	266	237	99.9	20.2
(WY)	2000	2000	2000	1999	1999	1999	1999	1999	2000	1999	2000	1999
MIN	6.42	1.12	6.16	2.12	29.7	35.0	3.89	21.9	72.3	58.7	2.64	5.86
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	1999	2000	1999	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL MEAN	277		44.5		44.5	
HIGHEST ANNUAL MEAN					44.5	2000
LOWEST ANNUAL MEAN					44.5	2000
HIGHEST DAILY MEAN	4950	Jan 23	1690	Jun 26	4950	Jan 23 1999
LOWEST DAILY MEAN	.22	Oct 19	.22	Oct 19	.22	Oct 19 1999
ANNUAL SEVEN-DAY MINIMUM	.46	Oct 17	.46	Oct 17	.46	Oct 17 1999
INSTANTANEOUS PEAK FLOW	---		2300	Aug 24	5240	Jan 23 1999
INSTANTANEOUS PEAK STAGE	---		13.96	Aug 24	20.04	Jan 23 1999
INSTANTANEOUS LOW FLOW	---		.18	Oct 18,19	.18	Oct 18 1999
10 PERCENT EXCEEDS	537		94		299	
50 PERCENT EXCEEDS	20		4.1		9.4	
90 PERCENT EXCEEDS	1.0		1.0		1.3	

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.--Estimated daily discharges: Oct. 1-4. Records fair except for estimated daily discharges and 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	2.4	2.0	3.6	3.1	18	5.8	4.4	8.3	27	6.7	13
2	33	3.0	2.1	3.6	3.1	16	5.4	3.5	6.1	39	5.4	11
3	18	2.8	2.3	3.9	3.2	15	5.4	3.3	4.2	72	4.6	8.8
4	13	2.9	3.3	3.8	3.6	12	5.2	3.6	3.6	144	3.9	6.8
5	10	3.4	6.0	4.8	3.6	12	4.8	3.5	3.1	78	3.2	6.1
6	8.8	5.4	13	7.8	3.7	11	4.7	3.3	9.0	31	3.7	5.1
7	5.9	6.7	11	5.6	3.6	9.3	5.0	3.3	12	18	4.0	5.0
8	5.6	6.0	7.3	5.0	3.4	7.4	5.0	3.9	6.6	12	19	4.7
9	4.9	4.8	9.0	5.2	3.4	5.8	4.6	5.3	4.3	9.4	94	4.3
10	15	12	38	5.2	3.5	4.9	4.6	10	3.4	7.5	48	3.9
11	10	4.7	33	4.9	3.7	4.3	4.5	17	3.7	5.7	16	3.6
12	6.2	2.7	15	4.9	3.6	4.1	4.6	10	4.1	5.0	8.8	5.3
13	3.6	2.7	9.8	4.4	3.8	4.3	4.4	6.1	27	4.5	6.5	5.1
14	2.5	2.1	7.1	3.8	3.9	4.8	4.4	4.0	573	3.8	4.9	6.3
15	2.2	1.7	7.2	3.6	4.4	5.1	4.4	3.2	673	3.4	4.5	4.5
16	2.6	2.4	6.1	3.5	4.2	28	4.9	2.7	104	3.3	14	3.7
17	2.4	2.6	5.5	3.5	3.9	129	5.1	2.6	38	5.8	7.2	3.3
18	2.3	2.8	5.6	3.5	46	66	4.6	2.7	40	22	4.3	3.2
19	2.0	3.1	4.4	3.4	118	37	4.3	2.7	22	32	3.7	3.0
20	1.9	2.9	4.1	3.4	52	30	4.7	2.4	40	19	5.0	3.1
21	1.9	2.7	3.7	3.2	25	25	4.5	2.2	700	14	54	3.9
22	1.7	3.0	3.6	3.3	16	21	4.4	2.5	282	8.5	22	4.6
23	1.9	4.3	3.6	3.3	12	16	4.6	2.6	69	6.0	9.9	5.1
24	1.9	3.0	3.5	3.1	11	13	4.6	3.1	82	4.5	3650	4.1
25	2.2	7.7	3.4	2.9	176	10	4.1	3.1	349	3.7	3800	7.4
26	2.0	6.0	3.4	2.9	488	9.0	3.7	10	1100	3.2	292	20
27	2.2	3.0	3.3	2.9	181	7.8	4.4	263	432	2.7	91	18
28	2.3	2.4	3.0	2.8	54	6.8	4.4	220	91	4.3	52	11
29	3.5	2.1	3.1	2.9	27	7.6	6.4	55	41	28	32	22
30	4.0	2.0	3.5	3.2	---	7.0	5.2	22	53	24	21	30
31	3.3	---	3.5	3.2	---	6.2	---	13	---	11	16	---
MEAN	8.99	3.78	7.40	3.91	43.7	17.9	4.76	22.4	159	21.0	268	7.86
MAX	102	12	38	7.8	488	129	6.4	263	1100	144	3800	30
MIN	1.7	1.7	2.0	2.8	3.1	4.1	3.7	2.2	3.1	2.7	3.2	3.0
IN.	.05	.02	.04	.02	.24	.10	.03	.13	.89	.12	1.55	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2000, BY WATER YEAR (WY)

MEAN	103	133	136	116	199	268	332	266	190	166	50.2	111
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1969 - 2000	
ANNUAL MEAN	227		47.5		172	
HIGHEST ANNUAL MEAN					380	1993
LOWEST ANNUAL MEAN					23.6	1976
HIGHEST DAILY MEAN	8160	Jul 1	3800	Aug 25	24100	Apr 21 1973
LOWEST DAILY MEAN	1.1	Sep 5	1.7	Oct 22,Nov 15	.00	Aug 4-10 1976
ANNUAL SEVEN-DAY MINIMUM	1.4	Sep 2	1.9	Oct 19	.00	Aug 4 1976
INSTANTANEOUS PEAK FLOW	---		5040	Aug 24	42300	Apr 21 1973
INSTANTANEOUS PEAK STAGE	---		17.11	Aug 24	33.40	Apr 21 1973
INSTANTANEOUS LOW FLOW	---		1.5	Oct 22	.00	Aug 4-10 1976
ANNUAL RUNOFF (INCHES)	15.42		3.23		11.70	
10 PERCENT EXCEEDS	407		42		278	
50 PERCENT EXCEEDS	16		4.9		14	
90 PERCENT EXCEEDS	2.4		2.7		1.3	

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 at 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.--Estimated daily discharges: March 31 to April 4. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.12	.15	6.2	5.0	1.1	3.2	288	3.6	1.5
2	.00	.00	.00	.16	.14	3.9	3.6	.94	1.9	68	4.6	1.1
3	.01	.00	.01	.20	.15	3.5	2.9	.90	1.2	148	2.1	.65
4	.00	.00	.21	.18	.16	4.7	2.6	.92	21	51	1.0	.30
5	.00	.00	1.0	.19	.15	4.2	2.2	.73	83	21	.52	.28
6	.00	.00	.51	.21	.14	3.2	1.8	.64	23	11	.28	.22
7	.00	.00	.29	.18	.15	2.5	1.8	.99	9.9	5.8	.14	.14
8	.00	.00	.23	.18	.14	1.8	1.7	.87	5.0	3.2	3.4	.08
9	.00	.00	2.8	.19	.14	1.4	1.4	1.6	2.9	2.1	98	.08
10	.00	.00	5.5	.25	.16	1.3	1.3	2.3	1.7	1.4	30	.07
11	.00	.00	7.5	.22	.16	1.2	1.3	2.1	6.2	.86	8.2	.07
12	.00	.00	6.1	.25	.18	1.1	1.0	1.5	150	.66	3.1	.07
13	.00	.00	3.4	.21	.20	1.2	.90	.84	43	.60	1.4	.06
14	.00	.00	2.0	.15	.21	1.2	.86	.67	29	.55	.74	.05
15	.00	.00	1.7	.15	.21	1.3	1.0	.49	20	.46	.30	.03
16	.00	.00	1.2	.14	.20	7.7	2.6	.45	9.5	.54	.13	.02
17	.00	.00	.87	.14	.19	10	11	.38	9.6	1.1	.08	.01
18	.00	.00	.68	.17	21	7.3	3.5	.25	10	1.5	.07	.01
19	.00	.00	.55	.20	24	55	2.2	.24	9.1	7.2	.06	.00
20	.00	.00	.47	.26	14	51	2.0	.20	81	3.6	.09	.00
21	.00	.00	.35	.19	8.1	22	1.9	.30	598	1.9	.08	.00
22	.00	.00	.27	.15	5.0	12	1.4	.27	94	1.1	.06	.00
23	.00	.02	.23	.13	3.3	8.8	1.0	.34	38	.68	.06	.00
24	.00	.01	.20	.12	2.4	7.5	1.2	1.4	35	.43	1440	.00
25	.00	.00	.16	.11	46	5.6	1.3	1.5	101	.29	485	.03
26	.00	.00	.17	.12	125	5.3	1.0	2.8	1680	.23	72	.03
27	.00	.00	.16	.11	28	29	1.3	233	156	.13	32	.01
28	.00	.00	.16	.09	12	27	1.4	55	52	.13	16	.00
29	.00	.00	.15	.12	8.0	14	1.9	20	26	.15	8.1	.00
30	.00	.00	.14	.14	---	9.8	1.5	8.9	391	.24	4.3	.00
31	.00	---	.12	.15	---	7.0	---	5.4	---	5.8	2.5	---
MEAN	.00	.001	1.20	.17	10.3	10.2	2.15	11.2	123	20.2	71.5	.16
MAX	.01	.02	7.5	.26	125	55	11	233	1680	288	1440	1.5
MIN	.00	.00	.00	.09	.14	1.1	.86	.20	1.2	.13	.06	.00
IN.	.00	.00	.01	.00	.11	.11	.02	.12	1.32	.22	.79	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2000, BY WATER YEAR (WY)

MEAN	14.6	85.9	74.0	44.2	109	88.5	106	120	64.3	89.6	29.2	45.2
MAX	95.9	652	442	151	441	340	541	473	300	482	143	748
(WY)	1987	1986	1983	1982	1997	1984	1994	1995	1998	1981	1982	1993
MIN	.00	.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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1980 - 2000	
ANNUAL MEAN	66.6		20.8		72.2	
HIGHEST ANNUAL MEAN					188	1993
LOWEST ANNUAL MEAN					15.1	1980
HIGHEST DAILY MEAN	3390	Jul 1	1680	Jun 26	7880	Sep 23 1993
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 18,Oct 4,Nov 25	.00	Oct 4,Nov 25	.00	Many Years
INSTANTANEOUS PEAK FLOW	---		4090	Jun 26	11800	May 7 1996
INSTANTANEOUS PEAK STAGE	---		15.12	Jun 26	22.25	May 7 1996
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Many Years
ANNUAL RUNOFF (INCHES)	8.70		2.72		9.44	
10 PERCENT EXCEEDS	88		22		89	
50 PERCENT EXCEEDS	2.8		.51		3.7	
90 PERCENT EXCEEDS	.00		.00		.02	

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, 508,000 ac-ft, July 5, elevation, 604.10 ft, July 5; minimum, 390,000 ac-ft, Feb 9-17, elevation, 596.86 ft, Feb. 12, 15, and 17.

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	600.78	600.03	599.20	598.40	597.58	598.02	598.78	598.47	598.05	603.50	602.49	602.46
2	600.83	599.86	599.16	598.41	597.41	598.01	598.79	598.46	598.05	603.62	602.39	602.31
3	600.85	599.70	599.15	598.39	597.43	598.09	598.81	598.47	598.01	603.85	602.22	602.04
4	600.91	599.67	599.16	598.44	597.27	598.17	598.71	598.46	597.99	603.94	601.89	602.00
5	600.91	599.63	599.31	598.43	597.19	598.20	598.66	598.28	598.15	604.10	601.78	601.97
6	600.90	599.60	599.28	598.39	597.04	598.21	598.65	598.20	598.19	604.00	601.79	601.87
7	600.88	599.61	599.03	598.35	597.05	598.24	598.65	598.23	598.19	603.94	601.63	601.65
8	600.93	599.53	599.04	598.35	597.04	598.25	598.66	598.22	598.21	603.97	601.77	601.56
9	600.95	599.52	599.11	598.36	596.91	598.26	598.67	597.70	598.19	603.99	601.87	601.27
10	600.96	599.55	599.17	598.40	596.90	598.23	598.63	597.75	598.17	604.00	601.97	601.26
11	600.95	599.50	599.15	598.39	596.89	598.21	598.64	597.66	598.18	603.71	602.02	600.89
12	600.93	599.50	599.15	598.35	596.86	598.16	598.61	597.70	598.27	603.58	601.88	600.81
13	600.86	599.50	599.09	598.37	596.87	598.17	598.59	597.71	598.41	603.45	601.77	600.78
14	600.82	599.49	598.89	598.33	596.89	598.11	598.59	597.67	598.51	603.25	601.78	600.65
15	600.75	599.48	598.91	598.25	596.86	598.16	598.56	597.67	598.91	603.06	601.73	600.59
16	600.67	599.46	598.78	598.25	596.88	598.18	598.56	597.66	599.10	602.94	601.52	600.54
17	600.67	599.44	598.74	598.24	596.86	598.19	598.60	597.66	599.18	602.97	601.28	600.39
18	600.65	599.45	598.72	598.26	597.02	598.24	598.55	597.65	599.26	602.98	601.17	600.34
19	600.43	599.52	598.72	598.24	596.97	598.37	598.48	597.59	599.27	603.00	601.15	600.33
20	600.32	599.37	598.76	598.26	597.00	598.49	598.65	597.57	599.35	602.87	601.19	600.31
21	600.25	599.36	598.51	598.16	597.02	598.55	598.52	597.58	599.69	602.89	601.15	600.25
22	600.26	599.35	598.51	598.06	597.05	598.58	598.50	597.58	600.09	602.88	601.07	600.18
23	600.23	599.32	598.48	598.05	597.00	598.61	598.48	597.50	600.18	602.87	600.75	600.21
24	600.20	599.39	598.48	598.03	597.07	598.65	598.51	597.39	600.12	602.87	600.94	600.20
25	600.19	599.37	598.47	597.97	597.07	598.66	598.52	597.39	600.31	602.86	602.93	600.26
26	600.18	599.37	598.49	597.91	597.41	598.62	598.45	597.40	601.14	602.82	603.89	600.24
27	600.16	599.35	598.48	597.91	597.68	598.77	598.47	597.60	602.46	602.60	603.80	600.17
28	600.16	599.34	598.49	597.87	597.85	598.82	598.50	597.84	602.98	602.55	603.58	600.13
29	600.04	599.35	598.46	597.85	597.87	598.83	598.48	597.98	603.11	602.45	603.35	600.07
30	600.03	599.18	598.46	597.90	---	598.85	598.46	598.06	603.15	602.45	603.00	600.06
31	600.03	---	598.40	597.75	---	598.77	---	598.08	---	602.47	602.63	---
MEAN	600.57	599.49	598.83	598.20	597.14	598.38	598.59	597.84	599.43	603.24	602.01	600.86
MAX	600.96	600.03	599.31	598.44	597.87	598.85	598.81	598.47	603.15	604.10	603.89	602.46
MIN	600.03	599.18	598.40	597.75	596.86	598.01	598.45	597.39	597.99	602.45	600.75	600.06

05507700 MARK TWAIN LAKE NEAR CENTER, MO--Continued

RESERVOIR STORAGE (ACRE-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	451000	439000	426000	413000	401000	407000	419000	414000	408000	498000	480000	480000
2	452000	436000	425000	413000	398000	407000	419000	414000	408000	500000	479000	477000
3	453000	434000	425000	413000	398000	408000	420000	414000	407000	504000	476000	473000
4	454000	433000	425000	414000	396000	410000	418000	414000	407000	506000	470000	472000
5	454000	433000	428000	414000	395000	410000	417000	411000	409000	508000	468000	471000
6	453000	432000	427000	413000	392000	410000	417000	410000	410000	507000	468000	470000
7	453000	432000	423000	412000	392000	411000	417000	411000	410000	506000	466000	466000
8	454000	431000	423000	412000	392000	411000	417000	410000	410000	506000	468000	464000
9	454000	431000	424000	413000	390000	411000	417000	402000	410000	506000	470000	460000
10	454000	431000	425000	413000	390000	411000	417000	403000	410000	507000	471000	459000
11	454000	431000	425000	413000	390000	410000	417000	402000	410000	502000	472000	453000
12	454000	431000	425000	412000	390000	409000	417000	402000	411000	499000	470000	452000
13	453000	431000	424000	413000	390000	410000	416000	403000	413000	497000	468000	451000
14	452000	430000	421000	412000	390000	409000	416000	402000	415000	493000	468000	449000
15	451000	430000	421000	411000	390000	409000	416000	402000	421000	490000	467000	448000
16	450000	430000	419000	411000	390000	410000	416000	402000	424000	488000	464000	447000
17	450000	430000	419000	411000	390000	410000	416000	402000	425000	489000	460000	445000
18	449000	430000	418000	411000	392000	411000	416000	402000	427000	489000	458000	444000
19	446000	431000	418000	411000	391000	413000	414000	401000	427000	489000	458000	444000
20	444000	429000	419000	411000	392000	415000	417000	400000	428000	487000	458000	444000
21	443000	428000	415000	409000	392000	416000	415000	401000	434000	487000	458000	443000
22	443000	428000	415000	408000	392000	416000	415000	401000	440000	487000	456000	442000
23	442000	428000	414000	408000	392000	417000	414000	399000	442000	487000	451000	442000
24	442000	429000	414000	407000	393000	417000	415000	398000	441000	487000	454000	442000
25	442000	429000	414000	407000	393000	417000	415000	398000	444000	487000	488000	443000
26	442000	429000	415000	406000	398000	417000	414000	398000	457000	486000	505000	443000
27	441000	428000	414000	406000	402000	419000	414000	401000	480000	482000	503000	441000
28	441000	428000	415000	405000	405000	420000	415000	405000	489000	481000	499000	441000
29	439000	428000	414000	405000	405000	420000	414000	407000	491000	480000	495000	440000
30	439000	425000	414000	405000	---	420000	414000	408000	492000	480000	489000	440000
31	439000	---	413000	403000	---	419000	---	408000	---	480000	483000	---
MEAN	448000	430000	420000	410000	394000	413000	416000	405000	430000	493000	472000	453000
MAX	454000	439000	428000	414000	405000	420000	420000	414000	492000	508000	505000	480000
MIN	439000	425000	413000	403000	390000	407000	414000	398000	407000	480000	451000	440000

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.--No estimated daily discharges. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	1080	176	66	717	66	63	62	55	98	605	1540
2	63	1020	78	64	1050	66	62	61	57	56	1280	2190
3	64	711	65	66	67	66	696	60	56	1030	2680	435
4	63	248	68	65	951	65	63	272	56	54	1200	68
5	63	62	68	65	1360	64	61	1040	56	1620	240	744
6	76	63	1580	83	65	63	63	63	54	543	821	1340
7	63	64	239	68	65	62	64	62	52	541	701	1330
8	89	67	66	66	495	59	64	2520	52	61	1240	2170
9	65	65	69	66	727	62	61	1230	52	61	75	392
10	87	65	98	65	64	65	63	508	58	2360	62	1840
11	64	67	67	66	66	134	64	63	58	1520	1430	2060
12	378	66	375	67	64	65	63	63	56	1020	1110	337
13	87	65	1280	69	64	268	61	63	53	1810	212	671
14	154	66	1020	69	63	65	60	63	53	1630	398	492
15	478	66	184	100	61	63	62	62	53	1060	1430	480
16	65	66	745	72	62	68	63	60	233	132	2080	912
17	64	64	69	70	62	63	64	57	58	60	804	511
18	64	61	68	70	65	62	453	55	55	60	142	65
19	406	62	66	70	66	63	139	64	53	816	60	64
20	366	67	1250	71	66	61	63	62	53	331	300	407
21	754	66	275	1310	64	60	64	60	89	81	940	421
22	64	66	67	67	322	60	62	328	909	61	2290	64
23	63	65	66	67	94	59	62	509	1330	60	621	65
24	63	65	67	67	65	58	62	87	1580	59	1850	65
25	63	64	64	627	67	60	61	56	1210	70	3980	64
26	83	63	64	258	67	70	64	59	1140	1260	2600	164
27	91	63	65	144	66	69	65	58	569	900	2880	397
28	64	62	63	69	528	68	64	55	285	1050	2650	282
29	67	65	62	69	65	66	63	54	212	70	2440	83
30	68	395	65	353	---	496	62	51	378	62	2040	57
31	69	---	66	1300	---	226	---	51	---	61	2470	---
MEAN	138	169	276	185	260	91.7	99.4	253	299	600	1343	657
MAX	754	1080	1580	1310	1360	496	696	2520	1580	2360	3980	2190
MIN	63	61	62	64	61	58	60	51	52	54	60	57
IN.	.07	.08	.14	.09	.12	.04	.05	.12	.14	.29	.66	.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2000, BY WATER YEAR (WY)

MEAN	1096	1447	1901	1065	1659	2748	2382	2596	2643	2791	1444	1037
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1980 - 2000	
ANNUAL MEAN	2099		365		1903	
HIGHEST ANNUAL MEAN					3462	1993
LOWEST ANNUAL MEAN					283	1989
HIGHEST DAILY MEAN	9730	Feb 11	3980	Aug 25	65600	Jul 29 1981
LOWEST DAILY MEAN	16	May 31	51	May 30,31	.44	Oct 14 1979
ANNUAL SEVEN-DAY MINIMUM	63	Sep 20	54	Jun 3	.65	Oct 11 1979
INSTANTANEOUS PEAK FLOW	---		7990	Feb 5	72800	Jul 29 1981
INSTANTANEOUS PEAK STAGE	---		12.04	Feb 5	32.62	Jul 29 1981
INSTANTANEOUS LOW FLOW	---		16	Sep 28	.44	Oct 14 1979
ANNUAL RUNOFF (INCHES)	12.12		2.12		11.00	
10 PERCENT EXCEEDS	6710		1240		5620	
50 PERCENT EXCEEDS	871		66		431	
90 PERCENT EXCEEDS	63		60		42	

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.--Estimated daily discharges: Oct. 6-8 and Feb. 1. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	83	237	73	1450	114	102	73	62	394	65	1770
2	73	1500	207	73	824	94	86	72	65	91	667	1500
3	79	1210	91	73	215	93	514	71	64	799	1990	2000
4	75	324	90	73	871	92	267	69	81	611	1980	107
5	70	146	113	69	1190	88	82	913	95	268	986	71
6	80	73	208	72	271	84	76	395	69	1550	97	788
7	87	71	1630	94	86	80	76	88	63	818	935	2070
8	72	71	103	78	80	77	76	1000	60	135	1050	713
9	77	75	104	76	1120	70	72	2640	57	76	804	2010
10	77	74	104	79	123	71	70	259	57	877	86	272
11	75	73	109	72	78	89	72	417	73	1640	248	2700
12	75	74	81	72	78	126	71	85	74	1510	1210	1020
13	610	74	675	71	77	210	72	74	64	1220	1120	175
14	83	73	1260	72	74	145	71	70	65	1670	92	847
15	532	71	896	107	73	79	72	69	59	1240	405	334
16	475	71	643	87	72	86	93	68	57	1050	1720	567
17	70	70	221	79	70	79	88	65	231	98	1710	1100
18	62	71	82	79	113	78	121	61	73	80	691	116
19	676	69	79	79	99	106	419	56	63	101	91	78
20	355	69	92	76	88	118	165	65	80	859	74	77
21	1300	75	1440	1140	83	93	80	66	129	256	350	644
22	218	76	101	272	81	84	74	66	430	81	1320	171
23	71	81	77	82	356	77	77	327	704	66	2070	77
24	69	76	75	74	97	77	78	517	1370	63	381	81
25	70	74	73	372	99	71	72	84	1690	60	3660	82
26	70	73	72	441	270	189	70	83	2350	80	2990	70
27	118	72	70	86	119	566	81	160	306	1590	2650	433
28	130	70	69	163	351	143	79	91	567	765	2550	111
29	73	70	70	86	298	106	75	74	421	740	2350	277
30	78	252	69	173	---	94	72	69	99	87	3490	78
31	80	---	71	1510	---	659	---	64	---	70	2920	---
MEAN	195	175	297	192	304	133	114	265	319	611	1315	678
MAX	1300	1500	1630	1510	1450	659	514	2640	2350	1670	3660	2700
MIN	62	69	69	69	70	70	70	56	57	60	65	70
IN.	.09	.08	.14	.09	.13	.06	.05	.12	.14	.28	.61	.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2000[a], BY WATER YEAR (WY)

MEAN	1126	1575	2025	1151	1802	2941	2546	2749	2718	2903	1521	1091
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1980 - 2000[a]	
ANNUAL MEAN	2223		384		2014	
HIGHEST ANNUAL MEAN					3577	1993
LOWEST ANNUAL MEAN					307	1989
HIGHEST DAILY MEAN	11200	Feb 7	3660	Aug 25	62100	Jul 30 1981
LOWEST DAILY MEAN	62	Oct 18	56	May 19	9.5	Nov 21 1980
ANNUAL SEVEN-DAY MINIMUM	64	Sep 21	64	May 16	9.6	Nov 20 1980
INSTANTANEOUS PEAK FLOW	---		6200	Aug 31	74200	Jul 29 1981
INSTANTANEOUS PEAK STAGE	---		9.02	Aug 31	31.09	Jul 29 1981
INSTANTANEOUS LOW FLOW	---		52	Jun 16	9.5	Nov 21 1980
ANNUAL RUNOFF (INCHES)	12.17		2.11		11.04	
10 PERCENT EXCEEDS	6990		1230		5880	
50 PERCENT EXCEEDS	1040		87		514	
90 PERCENT EXCEEDS	71		70		56	

[a]Post-regulation period.

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.--No estimated daily discharges. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	.94	1.0	2.8	3.1	21	29	7.5	13	171	5.1	7.4
2	1.7	.89	1.1	2.8	3.2	17	27	7.4	8.3	121	4.5	6.3
3	2.1	.72	1.2	2.7	3.2	18	24	7.7	7.1	127	4.1	5.6
4	1.2	.68	4.0	3.1	3.2	19	19	6.9	20	169	3.7	4.9
5	1.7	.72	10	3.0	3.2	25	17	6.8	36	98	3.5	4.6
6	1.7	.82	11	3.4	3.2	26	15	7.0	28	47	3.5	4.3
7	1.5	.88	14	3.2	3.1	22	13	7.6	21	31	29	3.8
8	3.0	1.1	13	3.4	2.9	18	14	8.4	11	23	391	3.6
9	2.6	1.1	13	3.6	2.9	16	13	8.7	7.9	18	151	3.4
10	3.0	.94	17	4.4	3.2	15	11	12	6.9	14	61	3.2
11	3.6	.68	23	5.3	3.2	14	10	13	73	20	32	3.1
12	3.8	.61	18	5.0	3.2	14	9.4	8.3	222	14	21	3.0
13	3.2	.64	13	3.8	3.2	14	8.9	7.7	86	10	15	2.6
14	2.4	.57	11	3.5	3.0	14	8.7	7.2	41	8.2	12	2.6
15	2.6	.43	11	3.6	3.7	15	8.7	6.3	36	7.1	9.7	2.2
16	2.5	.35	9.9	3.4	5.0	17	10	5.9	24	6.2	7.5	2.2
17	2.2	.35	8.4	3.3	6.6	20	31	5.6	17	9.1	7.3	2.0
18	1.7	.42	7.1	4.1	41	21	24	4.9	13	54	6.6	2.0
19	1.6	.40	6.7	5.0	61	59	15	4.5	9.4	69	6.4	1.8
20	1.6	.30	6.0	3.7	37	124	16	4.1	15	15	6.7	1.7
21	1.6	.35	5.3	3.2	25	72	15	4.2	804	9.3	6.3	1.6
22	1.4	.50	5.5	3.2	17	46	11	4.1	194	6.9	6.2	1.6
23	1.0	.93	5.1	3.2	16	34	11	4.1	65	6.5	6.0	1.5
24	.88	.88	4.1	3.2	15	28	12	16	39	4.8	536	1.6
25	.88	.81	3.7	3.0	17	24	12	19	87	4.2	350	2.3
26	.68	.93	3.5	2.8	140	225	9.5	19	1970	3.9	80	3.1
27	.73	.91	3.0	2.8	61	583	8.8	874	344	4.0	41	3.4
28	.74	.80	3.1	2.7	36	122	8.9	206	134	3.9	24	2.5
29	.67	.83	2.8	2.8	24	68	8.6	62	83	3.9	15	1.8
30	.53	.98	2.8	3.0	---	48	8.0	32	58	4.3	10	1.3
31	.69	---	2.8	3.1	---	36	---	20	---	6.0	8.4	---
MEAN	1.77	.72	7.78	3.42	18.9	57.9	14.3	45.4	149	35.1	60.1	3.03
MAX	3.8	1.1	23	5.3	140	583	31	874	1970	171	536	7.4
MIN	.53	.30	1.0	2.7	2.9	14	8.0	4.1	6.9	3.9	3.5	1.3
IN.	.01	.00	.04	.02	.10	.32	.08	.25	.81	.20	.34	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2000, BY WATER YEAR (WY)

MEAN	46.4	191	176	108	214	212	248	273	121	178	66.8	91.6
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1980 - 2000	
ANNUAL MEAN	164		33.1		160	
HIGHEST ANNUAL MEAN					355	1993
LOWEST ANNUAL MEAN					33.1	2000
HIGHEST DAILY MEAN	5550	Jul 1	1970	Jun 26	15600	Jul 28 1981
LOWEST DAILY MEAN	.30	Nov 20	.30	Nov 20	.08	Aug 14 1989
ANNUAL SEVEN-DAY MINIMUM	.37	Nov 15	.37	Nov 15	.10	Sep 7 1990
INSTANTANEOUS PEAK FLOW	---		4930	Jun 26	20300	Sep 22 1993
INSTANTANEOUS PEAK STAGE	---		10.85	Jun 26	18.54	Sep 22 1993
INSTANTANEOUS LOW FLOW	---		.30	Nov 20	.00	Many Days 1989
ANNUAL RUNOFF (INCHES)	10.79		2.19		10.57	
10 PERCENT EXCEEDS	306		58		232	
50 PERCENT EXCEEDS	29		6.6		24	
90 PERCENT EXCEEDS	.88		.99		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.--Estimated daily discharges: Jan. 16-18. Water-discharge records fair. National Weather Service gage-height telemark and U.S. Army Corps of Engineers satellite telemeter 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	4.3	5.5	8.7	5.5	49	93	19	106	292	319	102
2	3.7	2.9	5.8	9.5	5.3	41	77	17	75	2880	154	86
3	5.4	3.1	6.8	11	5.9	35	66	15	56	4040	105	74
4	5.7	3.3	12	9.4	5.9	30	56	15	52	3110	83	65
5	5.0	4.0	60	8.8	5.8	27	48	14	193	1020	71	57
6	4.4	5.3	187	8.8	5.8	24	43	13	117	478	64	51
7	4.3	5.0	128	8.7	5.9	22	44	27	113	297	63	47
8	9.3	5.4	71	9.0	5.8	20	42	25	102	223	1320	44
9	13	5.5	49	10	6.3	17	38	28	66	182	2120	41
10	16	4.9	42	10	6.8	15	36	27	48	155	538	39
11	16	4.8	33	9.0	6.4	21	34	25	176	135	264	37
12	11	4.7	30	8.1	6.2	22	31	22	2850	121	174	40
13	7.5	5.1	26	7.3	7.3	24	28	24	1140	110	131	36
14	5.8	4.8	26	6.5	8.0	40	26	20	381	100	107	33
15	5.7	4.4	24	6.9	8.2	62	25	16	273	91	90	31
16	6.1	4.5	22	7.2	7.5	66	23	13	212	84	79	27
17	5.6	4.3	22	6.5	7.7	83	22	12	144	87	71	26
18	4.9	4.3	21	7.2	59	86	22	10	112	103	106	25
19	4.5	5.0	21	7.3	303	123	21	8.6	115	1670	252	23
20	4.4	5.4	19	6.4	205	495	22	7.4	209	483	139	21
21	4.3	5.1	16	5.9	123	304	22	6.4	3310	231	171	20
22	3.8	5.1	15	6.2	88	192	60	11	1340	160	165	21
23	2.9	8.9	13	5.9	68	142	68	70	492	126	102	20
24	2.5	9.4	13	5.7	55	110	52	50	8550	105	5590	25
25	2.9	8.2	12	5.4	46	88	42	52	6260	91	10300	36
26	2.8	7.7	11	4.9	40	75	34	46	8330	82	2660	35
27	3.0	6.9	11	4.7	36	609	29	2950	2850	76	853	33
28	3.3	6.0	10	4.5	55	641	26	1930	787	77	319	31
29	3.7	5.6	10	5.3	58	259	23	634	446	119	199	32
30	4.1	5.4	9.7	5.8	---	166	20	267	315	177	146	30
31	4.9	---	9.3	5.8	---	120	---	158	---	157	124	---
MEAN	5.82	5.31	30.4	7.30	43.0	129	39.1	211	1307	550	867	39.6
MAX	16	9.4	187	11	303	641	93	2950	8550	4040	10300	102
MIN	2.5	2.9	5.5	4.5	5.3	15	20	6.4	48	76	63	20
IN.	.01	.01	.04	.01	.05	.17	.05	.27	1.62	.70	1.11	.05

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

MEAN	400	517	508	533	851	1004	1213	1034	694	566	296	456
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	625		270		671	
HIGHEST ANNUAL MEAN					2186	1993
LOWEST ANNUAL MEAN					27.3	1954
HIGHEST DAILY MEAN	13200	Feb 1	10300	Aug 25	76400	Oct 5 1941
LOWEST DAILY MEAN	1.6	Sep 15	2.5	Oct 23,24	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	1.9	Sep 10	3.0	Oct 23	.00	At Times
INSTANTANEOUS PEAK FLOW	---		15300	Aug 25	120000	Oct 5 1941
INSTANTANEOUS PEAK STAGE	---		22.39	Aug 25	33.40	Oct 5 1941
INSTANTANEOUS LOW FLOW	---		2.5	Oct 23,24	.00	Several Years
ANNUAL RUNOFF (INCHES)	9.39		4.07		10.10	
10 PERCENT EXCEEDS	1260		303		1240	
50 PERCENT EXCEEDS	65		28		90	
90 PERCENT EXCEEDS	3.5		5.0		5.9	

05514500 CUIVRE RIVER NEAR TROY, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1983 water year 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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
23...	1700	11	7.0	64	7.7	426	11.9	180	140	380	184
JAN											
19...	1405	8.0	11.1	82	7.4	452	3.0	K5	K5	K18	155
MAR											
14...	1625	44	11.4	100	8.2	431	9.6	K22	K23	K27	152
MAY											
23...	1130	85	7.1	80	7.7	468	21.0	2100	620	4000	178
JUL											
11...	1655	131	10.0	134	8.0	526	30.0	410	470	200	121
SEP											
12...	1530	40	9.8	124	7.7	331	27.5	66	K65	90	135

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
23...	188	229	0	200	62.2	11.1	3.7	11.3	14.9	.2	19.2
JAN											
19...	158	192	0	--	--	--	--	--	--	--	--
MAR											
14...	150	183	0	--	--	--	--	--	--	--	--
MAY											
23...	182	222	0	210	65.2	10.3	5.2	15.1	21.4	.1	27.0
JUL											
11...	120	147	0	--	--	--	--	--	--	--	--
SEP											
12...	136	166	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV											
23...	<.020	.50	<.050	<.010	<.050	<.010	E.045	17	11	250	26
JAN											
19...	<.020	.54	<.050	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
14...	<.020	.32	<.050	<.010	E.040	<.010	<.050	--	--	--	--
MAY											
23...	<.020	.80	.057	<.010	<.050	.014	.135	29	55	276	E11
JUL											
11...	.028	.91	.106	<.010	E.043	.031	.160	--	--	--	--
SEP											
12...	<.020	.64	<.050	<.010	<.050	.017	.100	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
23...	195	<8.0	<.1	<10	130	<100	<1	421	<.3	36	<31
MAY											
23...	875	<8.0	<.1	<10	20	<100	1	146	<.3	<20	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.

REMARKS.--No estimated daily discharges. Records fair. U.S.G.S. satellite telemter at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 5,770 ft^3/s, June 24, gage height 19.14 ft; minimum, 0.53 ft^3/s, Sept. 20.

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	---	---	2.8	3.7	4.4	12	13	11	16	46	7.8	2.4
2	---	---	2.7	3.9	4.3	9.7	12	9.9	18	193	5.8	2.3
3	---	---	3.1	6.0	4.5	9.1	11	7.5	12	71	4.7	2.4
4	---	---	11	4.7	4.3	9.0	11	7.1	9.8	38	4.0	2.1
5	---	---	534	3.8	3.9	8.1	8.9	6.5	14	28	4.1	1.9
6	---	---	50	3.7	3.7	7.3	8.4	6.9	8.7	21	4.1	1.9
7	---	---	21	3.6	3.7	7.0	19	2260	7.7	17	8.3	1.4
8	---	---	12	3.6	3.6	7.4	20	354	6.9	14	277	1.7
9	---	---	25	3.9	3.6	8.6	14	167	6.2	13	77	1.8
10	---	---	41	3.9	4.1	5.8	10	100	11	11	27	1.8
11	---	---	22	3.5	4.3	7.7	8.4	61	9.0	10	15	1.6
12	---	---	13	3.3	4.1	9.6	9.2	42	7.0	11	11	11
13	---	---	10	3.2	4.4	9.7	8.9	38	6.9	11	8.7	3.1
14	---	---	8.2	2.9	4.7	11	7.5	24	6.4	8.9	7.8	2.4
15	---	---	7.4	3.1	4.3	10	6.8	19	6.4	7.6	6.5	2.0
16	---	---	6.4	3.3	4.3	11	98	16	4.6	6.9	5.8	2.1
17	---	---	5.4	3.8	6.4	14	81	15	6.1	9.5	4.2	1.9
18	---	3.2	4.8	4.8	1260	10	27	47	4.9	9.4	4.1	1.5
19	---	3.6	4.6	4.3	166	72	21	32	4.1	8.8	3.5	.99
20	---	3.4	4.4	4.1	76	117	25	18	25	6.6	7.5	.86
21	---	3.2	4.1	3.6	46	69	23	13	66	5.9	6.8	1.2
22	---	3.4	3.9	3.5	32	41	14	12	20	5.0	5.6	1.2
23	---	9.1	3.7	4.0	26	29	13	12	20	4.6	4.1	1.3
24	---	5.2	3.4	3.9	22	25	31	9.7	4140	4.1	11	3.2
25	---	3.6	3.3	3.8	17	20	29	8.4	501	3.7	5.2	40
26	---	3.3	3.3	3.6	20	23	20	55	1130	3.5	4.9	8.1
27	---	3.1	3.2	3.5	17	56	16	248	265	4.0	5.1	4.5
28	---	2.7	3.2	3.5	12	35	14	127	138	53	4.6	3.4
29	---	2.7	3.1	3.9	10	22	12	50	75	39	3.9	3.0
30	---	2.6	3.2	4.3	---	19	10	30	51	37	3.4	2.6
31	---	---	3.3	4.4	---	14	---	21	---	15	2.7	---
MEAN	---	---	26.7	3.84	61.3	22.9	20.1	123	220	23.1	17.8	3.86
MAX	---	---	534	6.0	1260	117	98	2260	4140	193	277	40
MIN	---	---	2.7	2.9	3.6	5.8	6.8	6.5	4.1	3.5	2.7	.86

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.

REMARKS.--Estimated daily discharges: Dec. 10, Sept. 8, 9, and 11. Records fair except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,370 ft^3/s, June 24, gage height 22.14 ft; minimum, 1.4 ft^3/s, Sept. 10.

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	---	---	4.5	5.7	6.8	17	15	11	18	73	16	5.6
2	---	---	4.7	5.7	6.8	15	14	13	15	261	11	4.9
3	---	---	5.0	17	9.3	16	13	12	17	124	33	4.4
4	---	---	11	14	10	16	12	9.6	14	56	9.3	3.9
5	---	---	1000	6.8	8.8	12	10	8.5	22	39	7.8	3.3
6	---	---	34	5.5	7.3	11	9.3	11	13	29	8.3	3.1
7	---	---	28	6.1	6.9	10	53	2750	11	23	20	2.2
8	---	---	20	6.2	7.8	12	27	1670	9.3	20	684	2.2
9	---	---	34	7.6	7.4	9.9	18	206	8.1	17	178	4.0
10	---	---	113	6.6	7.8	8.7	13	107	10	16	45	2.2
11	---	---	39	5.9	8.6	17	10	63	20	19	22	3.6
12	---	---	26	5.1	7.1	28	9.0	45	14	20	15	97
13	---	---	18	4.8	8.7	29	10	44	13	15	12	10
14	---	---	14	4.6	11	16	9.0	27	11	13	10	6.8
15	---	---	11	4.4	8.6	13	7.9	21	9.4	11	9.9	5.1
16	---	---	7.9	4.7	8.2	14	201	18	8.5	11	10	4.1
17	---	---	7.7	6.5	14	15	111	17	14	12	11	3.4
18	---	6.9	7.6	15	2630	15	32	47	11	16	19	3.1
19	---	6.7	7.8	9.8	257	113	24	54	7.8	14	7.7	3.4
20	---	7.4	7.0	6.9	106	156	44	22	20	11	40	2.9
21	---	7.4	7.0	5.7	64	91	29	17	190	9.1	13	3.4
22	---	6.9	6.5	6.0	43	49	21	23	27	7.9	11	7.0
23	---	30	5.9	6.7	34	34	15	37	23	7.1	8.0	7.1
24	---	18	5.6	6.3	29	36	76	14	4670	6.4	112	20
25	---	7.6	5.1	5.8	25	26	47	11	3960	5.4	16	332
26	---	5.9	5.3	5.2	46	25	27	185	2610	4.9	9.5	54
27	---	5.3	5.3	4.9	27	111	24	760	567	6.2	30	14
28	---	4.9	4.8	5.0	19	47	23	186	233	551	12	8.4
29	---	4.5	7.0	5.3	17	27	16	59	124	131	8.7	6.6
30	---	4.5	5.7	6.0	---	22	13	33	81	56	7.6	5.7
31	---	---	6.8	6.7	---	17	---	24	---	47	7.4	---
MEAN	---	---	47.3	6.85	119	33.2	31.1	210	425	52.6	45.3	21.1
MAX	---	---	1000	17	2630	156	201	2750	4670	551	684	332
MIN	---	---	4.5	4.4	6.8	8.7	7.9	8.5	7.8	4.9	7.4	2.2

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.3 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.--Estimated daily discharges: March 6-21. Water-discharge records fair.

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	.02	.04	.03	.04	.03	.10	.15	.09	.13	.37	.35	.05
2	.03	.04	.03	.05	.03	.11	.12	.07	.10	.30	.16	.05
3	.03	.03	.03	.05	.04	.21	.11	.06	.08	.25	.09	.05
4	.03	.04	.03	.04	.04	.08	.09	.05	.07	.21	.07	.05
5	.02	.03	.44	.03	.03	.09	.08	.05	.06	.17	.06	.04
6	.03	.03	.42	.03	.03	.07	.07	.05	.06	.15	.06	.04
7	.03	.03	.38	.03	.04	.07	.07	.54	.06	.14	.06	.05
8	.17	.02	.32	.03	.04	.06	.09	.58	.07	.31	.30	.05
9	.31	.02	.24	.03	.04	.06	.08	.49	.18	.36	.40	.05
10	.26	.03	.42	.03	.04	.05	.07	.44	.17	.21	.36	.04
11	.17	.03	.37	.03	.04	.05	.14	.41	.23	.11	.31	.04
12	.12	.03	.33	.03	.04	.05	.06	.36	.14	.08	.30	.12
13	.08	.03	.22	.03	.04	.05	.06	.26	.17	.11	.15	.09
14	.07	.03	.15	.03	.04	.05	.06	.21	.16	.11	.11	.05
15	.06	.03	.11	.03	.04	.05	.05	.17	.15	.10	.12	.05
16	.05	.03	.09	.03	.04	.10	.05	.15	.13	.36	.15	.05
17	.05	.03	.07	.03	.04	.12	.05	.14	.07	.18	.12	.05
18	.04	.03	.06	.03	.52	.23	.05	.12	.06	.10	.09	.05
19	.04	.03	.05	.03	.49	.33	.07	.10	.07	.08	.07	.05
20	.04	.03	.06	.03	.44	.43	.07	.09	.10	.07	.07	.05
21	.04	.03	.05	.03	.42	.42	.15	.08	.34	.06	.07	.06
22	.05	.02	.04	.03	.40	.42	.12	.07	.35	.06	.07	.06
23	.05	.03	.05	.03	.34	.41	.06	.07	.24	.06	.06	.06
24	.04	.03	.06	.03	.24	.43	.22	.06	.64	.06	.07	.07
25	.04	.04	.06	.03	.18	.30	.43	.06	.55	.05	.06	.25
26	.05	.04	.06	.03	.17	.19	.37	.15	.52	.05	.06	.31
27	.03	.04	.05	.03	.23	.45	.25	.47	.47	.05	.05	.27
28	.03	.03	.05	.03	.17	.42	.16	.45	.44	.15	.11	.12
29	.03	.03	.05	.03	.13	.32	.13	.43	.40	.40	.08	.07
30	.03	.03	.05	.03	---	.31	.10	.37	.38	.33	.08	.06
31	.03	---	.04	.03	---	.30	---	.22	---	.35	.06	---
MEAN	.067	.031	.14	.032	.15	.20	.12	.22	.22	.17	.13	.080
MAX	.31	.04	.44	.05	.52	.45	.43	.58	.64	.40	.40	.31
MIN	.02	.02	.03	.03	.03	.05	.05	.05	.06	.05	.05	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2000, BY WATER YEAR (WY)

MEAN	.13	.22	.27	.30	.33	.36	.38	.31	.24	.18	.13	.11
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	.17	.12	.12	.089	.090	.059	.039
(WY)	1998	2000	1999	2000	1996	1996	2000	1986	1991	1995	1996	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1985 - 2000	
ANNUAL MEAN	.21		.13		.24	
HIGHEST ANNUAL MEAN					.33	1994
LOWEST ANNUAL MEAN					.13	2000
HIGHEST DAILY MEAN	.68	Jan 17	.64	Jun 24	.92	Apr 11 1994
LOWEST DAILY MEAN	.02	Jan 1,2,Sep 27,30	.02	Oct 1,5,Nov 8,9,22	.02	Several Days 1999,2000
ANNUAL SEVEN-DAY MINIMUM	.03	Sep 25	.03	Oct 1	.02	Nov 29 1998
INSTANTANEOUS PEAK FLOW[a]	---		.68	May 7,8,Jun 24	.92	Apr 11 1994
INSTANTANEOUS PEAK STAGE[b]	---		2.70	May 7	2.70	May 7 2000
INSTANTANEOUS LOW FLOW	---		.02	Oct 1,4,5	.02	Several Days 1999,2000
10 PERCENT EXCEEDS	.44		.37		.47	
50 PERCENT EXCEEDS	.12		.06		.20	
90 PERCENT EXCEEDS	.03		.03		.06	

[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 Aug. and Sept. 1991; minimum daily mean, 70 microseimens per centimeter, Jan. 21 and 22, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum daily mean, 805 microseimens per centimeter, Sept. 24; minimum daily mean, 234 microseimens per centimeter, June 26.

SPECIFIC CONDUCTANCE (µS/cm AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	785	744	765	725	707	717	764	683	736	710	658	678
2	779	746	763	755	707	722	757	696	730	697	655	676
3	777	740	760	743	704	725	728	703	717	722	606	683
4	791	754	765	744	705	725	751	571	702	718	672	690
5	791	755	774	737	720	729	696	263	482	716	631	677
6	782	752	769	742	723	732	506	412	463	714	669	689
7	779	743	761	745	726	735	515	467	489	715	670	695
8	773	501	710	744	720	736	527	471	497	739	669	699
9	504	457	476	748	733	739	536	479	508	725	660	690
10	496	464	476	756	729	741	550	481	509	726	652	683
11	516	472	491	757	728	741	524	481	500	723	657	686
12	538	497	517	759	726	741	525	477	501	735	676	701
13	551	516	535	754	716	744	540	485	509	709	699	704
14	570	528	547	763	733	743	535	493	509	733	677	704
15	571	539	559	768	727	743	557	500	518	721	691	707
16	584	559	574	766	715	733	555	506	531	715	703	708
17	599	566	587	744	710	727	574	531	551	718	669	702
18	626	582	600	756	718	733	599	543	566	719	700	707
19	631	589	612	743	707	725	602	562	582	718	699	705
20	651	599	625	757	674	719	645	558	599	728	682	708
21	662	621	640	775	696	740	648	576	601	747	701	714
22	701	632	659	757	713	738	669	583	615	721	701	710
23	687	651	672	751	619	723	658	586	622	727	699	712
24	715	652	681	773	709	740	655	598	625	761	698	716
25	719	657	691	799	730	757	668	605	636	742	690	715
26	722	673	698	774	725	743	677	621	647	748	690	717
27	734	673	706	765	721	747	679	623	651	766	688	717
28	---	---	710	785	719	752	674	636	656	734	693	714
29	---	---	713	787	705	746	683	637	663	724	690	706
30	729	696	709	796	723	752	700	643	666	740	610	694
31	725	706	716	---	---	---	691	620	668	741	651	696

384304090441801 BURGERMEISTER SPRING NEAR WELDON SPRING, MO--Continued

SPECIFIC CONDUCTANCE (µS/cm AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	746	691	715	439	388	405	464	417	439	509	466	485
2	736	671	706	461	412	435	517	438	463	526	480	503
3	735	703	717	499	439	471	503	451	472	560	494	524
4	737	700	711	454	409	427	554	472	492	565	515	532
5	747	687	710	439	413	427	545	488	509	572	537	551
6	729	682	705	479	437	461	567	501	523	587	548	571
7	741	692	707	507	474	493	556	0	505	566	117	318
8	727	666	702	532	504	521	562	517	537	264	227	240
9	756	686	710	552	530	541	584	533	552	273	236	250
10	737	687	710	571	552	563	587	558	572	294	249	268
11	719	700	710	605	550	578	609	575	591	325	272	292
12	741	700	715	620	580	596	638	568	602	344	305	325
13	722	705	713	623	600	612	577	517	546	394	338	368
14	735	695	717	638	620	631	573	532	552	425	375	398
15	1060	329	720	645	621	638	593	554	571	458	397	420
16	742	716	727	632	579	604	622	567	585	460	419	442
17	747	671	719	586	556	571	622	586	604	477	435	456
18	721	244	344	571	545	564	635	581	612	505	434	473
19	271	244	258	574	157	424	639	588	624	518	454	488
20	312	260	290	314	275	296	652	567	630	536	483	504
21	328	297	310	306	295	300	674	613	637	550	483	511
22	336	323	330	332	304	319	685	627	650	567	514	537
23	362	332	344	398	332	344	658	534	596	559	525	545
24	381	347	362	441	398	427	593	493	548	583	557	571
25	394	362	377	434	399	420	514	465	488	606	566	591
26	433	377	397	407	280	393	510	438	469	633	491	594
27	441	373	414	430	257	340	463	427	443	638	284	363
28	385	358	370	347	315	334	457	416	438	295	285	288
29	393	363	377	369	336	352	483	430	455	321	290	303
30	---	---	---	421	362	390	510	443	476	349	316	334
31	---	---	---	470	407	428	---	---	---	387	343	366

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	427	378	403	354	334	346	434	388	400	664	633	651
2	467	414	438	381	354	368	427	391	410	687	658	673
3	499	201	465	422	380	403	468	426	447	711	684	695
4	518	472	495	444	417	429	525	464	496	729	682	714
5	549	499	524	459	434	447	563	518	541	743	720	733
6	579	530	555	493	456	473	596	559	576	764	729	744
7	614	564	580	512	482	498	625	557	606	771	741	756
8	633	580	605	527	393	495	670	441	598	778	753	766
9	682	591	629	410	336	374	441	410	417	780	759	771
10	654	398	515	363	334	345	433	409	420	796	758	779
11	516	467	487	413	358	384	458	412	433	791	771	784
12	522	483	499	472	405	443	453	413	431	791	601	765
13	520	480	499	542	471	506	433	411	419	801	778	787
14	557	505	537	571	531	559	472	422	444	802	782	790
15	595	556	573	562	544	550	544	469	514	798	783	791
16	627	586	598	584	375	469	551	541	545	794	782	789
17	641	608	625	416	366	389	556	524	545	801	784	791
18	672	630	649	445	409	429	544	524	532	801	784	793
19	662	642	648	503	441	477	556	539	547	811	787	796
20	672	517	644	549	501	527	570	513	555	803	788	797
21	684	426	596	581	546	565	608	568	588	816	791	801
22	457	406	434	611	581	596	643	603	625	822	783	802
23	479	402	448	636	610	623	668	642	656	824	785	803
24	446	69	249	658	634	646	692	643	672	822	756	805
25	254	225	236	674	648	665	714	685	697	813	500	759
26	241	224	234	689	665	677	725	684	713	500	422	434
27	245	233	240	704	666	689	740	703	722	511	436	482
28	254	244	250	705	511	681	740	596	679	505	487	496
29	302	254	280	697	409	469	596	574	581	534	501	519
30	334	302	318	477	440	455	612	581	595	576	528	554
31	---	---	---	514	433	484	643	611	627	---	---	---

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.--No estimated daily discharges. Records fair. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68500	48500	62500	54900	37300	108000	69400	108000	103000	266000	80000	64100
2	61800	38100	54400	59500	36900	99500	61100	99500	120000	252000	76800	59600
3	58800	44300	58800	53700	38200	107000	62400	101000	139000	244000	86400	56800
4	58300	45400	54700	45100	30500	112000	53000	94200	135000	236000	89600	57000
5	58100	47700	58900	49300	36400	113000	63400	86500	150000	231000	83700	50200
6	57500	46600	58000	54300	42800	114000	61600	85300	166000	228000	65300	53500
7	54800	46100	73500	40400	40000	111000	60700	89300	171000	229000	65900	53800
8	56700	40400	69000	44500	42600	107000	52200	77000	173000	228000	79600	49500
9	49000	40700	58900	46100	37100	101000	54900	73700	179000	224000	79200	53200
10	51700	42700	59500	43800	35800	99100	54900	74600	184000	209000	77400	55900
11	57800	41400	66000	39700	32700	103000	56800	80000	189000	174000	77100	58700
12	55600	51900	65300	51800	41400	102000	56400	79600	200000	170000	70700	51000
13	55700	41800	57900	48800	37900	96400	64000	75100	206000	171000	71200	53800
14	56000	43300	55300	47700	38300	93000	56600	77600	208000	173000	52500	62200
15	53300	43000	50700	45400	39000	85700	51500	81000	214000	186000	50700	65400
16	47500	48500	54000	36400	36700	88500	50100	79700	216000	194000	57100	68000
17	44100	45200	60800	42500	46200	92700	50300	79900	220000	203000	61600	71000
18	48400	51100	57100	37800	43700	92800	56100	83800	226000	208000	64800	78800
19	45900	45100	60100	36700	40300	83200	63300	77300	231000	217000	64600	74300
20	48700	40700	46000	34100	40600	77800	47700	74100	234000	214000	70800	64300
21	47100	50500	43500	37000	38700	74700	67800	92100	245000	208000	67100	66800
22	40000	51400	42000	39300	34900	77500	103000	99000	244000	204000	65400	72400
23	46500	40200	43700	31900	39500	77200	121000	106000	237000	201000	69300	58600
24	44400	52100	48300	32900	41900	67600	106000	107000	249000	190000	79200	54600
25	47400	53100	45400	31200	46300	64300	103000	110000	260000	151000	86200	61000
26	48200	46700	41500	35100	74200	60700	106000	109000	267000	121000	75800	72800
27	50900	55900	45200	42100	104000	65500	105000	120000	281000	98000	63300	77000
28	44200	55300	42300	44000	113000	53500	106000	124000	289000	97200	59800	60500
29	48400	58800	45600	45400	113000	63600	106000	116000	291000	89400	52100	60000
30	51500	55900	52000	39100	---	67100	113000	113000	281000	71800	48800	58900
31	45900	---	52700	39600	---	64700	---	111000	---	82100	58600	---
MEAN	51700	47080	54310	42910	47580	87840	72770	93040	210300	186100	69370	61460
MAX	68500	58800	73500	59500	113000	114000	121000	124000	291000	266000	89600	78800
MIN	40000	38100	41500	31200	30500	53500	47700	73700	103000	71800	48800	49500
IN.	.35	.31	.37	.29	.30	.59	.47	.63	1.37	1.25	.47	.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

MEAN	91600	94460	90240	81330	95320	144000	183400	190100	168900	152400	108800	85830
MAX	334900	171300	169900	161000	158000	217400	342100	333300	263900	469300	416900	309900
(WY)	1987	1987	1993	1993	1999	1997	1993	1993	1996	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1987 - 2000	
ANNUAL MEAN	131000		85440		124000	
HIGHEST ANNUAL MEAN					250700	1993
LOWEST ANNUAL MEAN					53860	1989
HIGHEST DAILY MEAN	296000	May 4	291000	Jun 29	596000	Aug 3 1993
LOWEST DAILY MEAN	38100	Nov 2	30500	Feb 4	20100	Dec 14 1988
ANNUAL SEVEN-DAY MINIMUM	43200	Nov 8	34500	Jan 20	23600	Dec 12 1988
INSTANTANEOUS PEAK FLOW	---		291000	Jun 29	598000	Aug 1 1993
INSTANTANEOUS PEAK STAGE	---		424.16	Jun 29	441.96	Aug 1 1993
INSTANTANEOUS LOW FLOW	---		30500	Feb 4	20100	Dec 14 1988
ANNUAL RUNOFF (INCHES)	10.38		6.79		9.83	
10 PERCENT EXCEEDS	252000		196000		243000	
50 PERCENT EXCEEDS	119000		61600		97500	
90 PERCENT EXCEEDS	47600		40700		43800	

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL
(National stream-quality accounting network station)
(Ambient water-quality monitoring station)

WATER-QUALITY RECORDS

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 1989 to 1994.

REMARKS.--Established ambient water-quality monitoring network station November 1992. Sediment records fair.

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, 331 mg/L, June 26; minimum daily mean, 46 mg/L, Dec. 10.
SUSPENDED-SEDIMENT LOADS: Maximum daily, 239,000 tons, June 26; minimum daily, 5,920 tons, Nov. 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)
OCT												
19...	1505	45900	.179	--	11.2	107	7.9	469	14.2	K27	58	K2
NOV												
22...	1315	50000	.167	.121	11.8	106	7.9	489	11.3	K11	30	K2
DEC												
07...	1335	68600	.155	.113	12.5	103	8.0	528	7.5	220	K190	220
JAN												
19...	1225	36700	.136	.099	15.7	112	8.9	508	1.8	K160	K150	K8
FEB												
14...	1355	184000	.123	.090	16.9	124	8.1	622	2.9	K8	K6	K2
MAR												
13...	1305	96400	.130	.096	10.8	93	8.4	498	9.3	K150	K12	K96
APR												
03...	1400	62400	.167	.125	12.3	115	8.9	436	12.1	K32	K32	K12
MAY												
04...	1035	94200	.131	.094	7.6	81	8.1	620	18.6	68	K26	K9
JUN												
09...	1905	179000	.160	.117	7.8	88	7.8	418	22.3	K22	210	290
26...	1410	267000	.191	.143	6.6	78	7.7	416	24.0	K320	K720	K720
JUL												
10...	1350	209000	.189	.140	5.8	72	7.7	419	27.4	260	K660	54
AUG												
11...	1925	77800	.152	.110	15.1	193	8.3	439	28.6	28	35	17
SEP												
11...	1355	52500	.164	.119	8.2	104	8.4	435	27.3	K10	K3	K1

K--Results based on colony count outside the acceptable range (non-ideal colony count).

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued
(National stream-quality accounting network station)
(Ambient water-quality monitoring station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ALKALINITY WAT DIS FIX END FIELD $CaCO_3$ (mg/L) (39036)	ALKALINITY WAT DIS TOT IT FIELD (mg/L as $CaCO_3$) (39086)	BICARBONATE WATER DIS IT FIELD (mg/L as HCO_3) (00453)	CARBONATE WATER DIS IT FIELD (mg/L as CO_3) (00452)	HARDNESS TOTAL (mg/L as $CaCO_3$) (00900)	HARDNESS NONCARB DISSOLV FLD. as $CaCO_3$ (mg/L) (00904)	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)	CHLORIDE, DISSOLVED (mg/L as Cl) (00940)	FLUORIDE, DISSOLVED (mg/L as F) (00950)
OCT												
19...	160	165	202	0	200	38	47.3	20.8	2.5	20.1	28.6	.3
NOV												
22...	180	181	221	0	220	35	48.6	23.0	2.7	21.6	30.5	.2
DEC												
07...	160	164	200	0	210	41	46.8	21.4	2.4	22.9	33.4	.2
JAN												
19...	180	182	200	11	230	45	51.4	24.0	2.2	24.5	36.0	.2
FEB												
14...	190	184	230	0	240	53	55.5	24.9	2.8	28.8	41.3	.2
MAR												
13...	130	130	159	0	200	74	48.8	20.1	3.2	24.3	39.7	.2
APR												
03...	160	164	192	2	210	46	48.4	21.0	2.8	26.7	38.8	.4
MAY												
04...	150	153	187	0	210	58	48.7	21.9	2.8	24.8	41.2	.3
JUN												
09...	145	146	178	0	200	56	47.0	20.4	2.8	16.7	24.4	.2
26...	130	133	163	0	180	47	44.7	16.7	3.0	11.2	17.9	.2
JUL												
10...	150	149	182	0	190	40	46.5	17.7	3.0	12.7	20.6	.2
AUG												
11...	160	166	198	2	220	54	52.7	21.5	2.6	17.6	27.5	.2
SEP												
11...	150	153	177	5	200	42	43.0	21.4	2.7	16.7	24.4	.2

DATE	SILICA, DISSOLVED (mg/L as SiO_2) (00955)	SULFATE DISSOLVED (mg/L as SO_4) (00945)	NITROGEN, AMMONIA DISSOLVED (mg/L as N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (mg/L as N) (00623)	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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)
OCT												
19...	7.3	33.6	<.020	.45	.95	1.53	.011	.154	.098	.221	--	275
NOV												
22...	5.0	34.9	<.020	.50	.83	1.22	.012	.075	.019	.122	--	296
DEC												
07...	3.7	36.9	.024	.46	.86	1.38	.010	.106	.074	.164	--	--
JAN												
19...	3.7	39.2	<.020	.39	1.1	1.80	.020	.053	.025	.150	--	326
FEB												
14...	5.6	41.7	<.020	.44	.93	2.25	.021	.092	.081	.170	--	346
MAR												
13...	8.5	29.7	<.020	.74	.95	2.74	.032	.140	.085	.216	--	305
APR												
03...	2.0	36.8	<.020	.51	1.3	1.63	.018	.069	.036	.165	--	298
MAY												
04...	4.4	39.7	<.020	.63	1.0	4.09	.067	.124	.091	.234	--	320
JUN												
09...	8.1	29.6	<.020	.61	1.3	4.42	.042	.132	.120	.430	215	276
26...	10.8	24.0	<.020	.59	1.1	4.84	.037	.169	.143	.442	--	258
JUL												
10...	10.0	29.7	<.020	.43	1.3	4.11	.030	.178	.146	.478	264	266
AUG												
11...	4.5	36.0	<.020	.43	1.0	1.95	.039	.102	.080	.202	43	294
SEP												
11...	.6	31.0	.053	.55	.87	.664	.023	.108	.087	.180	21	244

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued
(National stream-quality accounting network station)
(Ambient water-quality monitoring station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TURBIDITY (NTU) (00076)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	ARSENIC DISSOLVED (µg/L as As) (01000)	BORON, DISSOLVED (µg/L as B) (01020)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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)	LITHIUM DISSOLVED (µg/L as Li) (01130)
OCT												
19...	8.0	--	--	--	--	--	--	--	--	--	--	--
NOV												
22...	4.4	--	--	--	--	--	--	--	--	--	--	--
DEC												
07...	6.5	--	--	--	--	--	--	--	--	--	--	--
JAN												
19...	7.6	--	--	--	--	--	--	--	--	--	--	--
FEB												
14...	5.6	--	--	--	--	--	--	--	--	--	--	--
MAR												
13...	34	--	--	--	--	--	--	--	--	--	--	--
APR												
03...	20	--	--	--	--	--	--	--	--	--	--	--
MAY												
04...	23	--	--	--	--	--	--	--	--	--	--	--
JUN												
09...	65	76	2710	E1.8	84	<1.0	.1	2	40	<1	6	E3.3
26...	67	--	--	--	--	--	--	--	--	--	--	--
JUL												
10...	85	79	3040	--	--	<8.0	.4	<10	60	<100	6	--
AUG												
11...	24	24	549	--	--	<8.0	<.1	<10	20	<100	1	--
SEP												
11...	25	25	347	--	--	<8.0	<.1	<10	10	<100	E1	--

DATE	MANGANESE, DISSOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOVERABLE (µg/L as Hg) (71900)	SELENIUM, DISSOLVED (µg/L as Se) (01145)	STRONTIUM, DISSOLVED (µg/L as Sr) (01080)	VANADIUM, DISSOLVED (µg/L as V) (01085)	ZINC, DISSOLVED (µg/L as Zn) (01090)	ZINC, TOTAL RECOVERABLE (µg/L as Zn) (01092)	CARBON, ORGANIC DISSOLVED (mg/L as C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (mg/L as C) (00689)	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)
OCT												
19...	--	--	--	--	--	--	--	7.1	--	<.003	<.020	.006
NOV												
22...	--	--	--	--	--	--	--	6.1	1.0	<.003	<.020	.007
DEC												
07...	--	--	--	--	--	--	--	6.1	1.0	<.003	<.020	.006
JAN												
19...	--	--	--	--	--	--	--	6.1	2.7	<.003	.024	<.002
FEB												
14...	--	--	--	--	--	--	--	5.3	1.2	<.003	.074	.028
MAR												
13...	--	--	--	--	--	--	--	7.1	2.1	<.003	.016	<.002
APR												
03...	--	--	--	--	--	--	--	4.9	2.0	<.003	.093	<.002
MAY												
04...	--	--	--	--	--	--	--	--	.5	<.003	.294	.014
JUN												
09...	2	<.3	E1.8	115	E6	37	E25	6.8	3.7	<.003	.720	.034
26...	--	--	--	--	--	--	--	5.9	2.0	<.003	.253	.024
JUL												
10...	5	<.3	--	--	--	23	E17	6.0	4.2	<.003	.075	.014
AUG												
11...	E2	<.3	--	--	--	<20	<31	5.8	1.7	<.003	.029	<.002
SEP												
11...	4	<.3	--	--	--	<20	<31	11	1.7	<.003	<.002	<.002

E--Laboratory estimated value.

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued
(National stream-quality accounting network station)
(Ambient water-quality monitoring station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ATRAZINE, WATER, DISS, REC (µg/L) (39632)	METHYL AZINPHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	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)	DIAZINON, DISSOLVED (µg/L) (39572)	DIELDRIN DISSOLVED (µg/L) (39381)
OCT												
19...	.121	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.010	.005	<.001
NOV												
22...	.127	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.041	.008	<.001
DEC												
07...	.128	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.042	.007	<.001
JAN												
19...	.138	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.019	<.002	<.001
FEB												
14...	.146	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.026	E.003	<.001
MAR												
13...	.073	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.012	.012	<.001
APR												
03...	.136	<.001	<.002	<.002	<.003	<.003	<.004	<.010	<.002	E.036	<.002	<.001
MAY												
04...	1.02	<.001	<.002	<.002	<.003	<.003	<.004	.011	<.002	E.083	.015	<.001
JUN												
09...	2.51	<.001	<.002	<.002	<.003	E.043	<.004	.052	<.002	E.180	<.002	<.001
26...	1.79	<.001	<.002	<.002	<.003	E.035	<.004	.032	<.002	E.290	.017	<.001
JUL												
10...	.692	<.001	<.002	<.002	<.003	<.003	<.004	.009	<.002	E.044	.010	<.001
AUG												
11...	.358	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.023	.004	<.001
SEP												
11...	--	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	--	<.002	<.001

DATE	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 0.7 µ GF, REC (µg/L) (82666)	MALATHION, DISSOLVED (µg/L) (39532)	METOLACHLOR WATER DISSOLV (µg/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOLINATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)
OCT												
19...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.038	<.004	<.004	<.003
NOV												
22...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.027	<.004	<.004	<.003
DEC												
07...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.020	<.004	<.004	<.003
JAN												
19...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.061	<.004	<.004	<.003
FEB												
14...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.055	<.004	<.004	<.003
MAR												
13...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.102	<.004	<.004	<.003
APR												
03...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.085	<.004	<.004	<.003
MAY												
04...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.508	<.010	<.004	<.003
JUN												
09...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.976	<.020	<.004	<.003
26...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.590	.011	<.004	<.003
JUL												
10...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.229	<.004	<.004	<.003
AUG												
11...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.060	<.004	<.004	<.003
SEP												
11...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.060	<.004	<.004	<.003

E--Laboratory estimated value.

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued
(National stream-quality accounting network station)
(Ambient water-quality monitoring station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PARA-THION, DIS-SOLVED (µg/L) (39542)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	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)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	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)	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	SI-MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)
OCT												
19...	<.004	<.006	<.004	<.004	<.002	E.009	<.007	<.004	<.013	<.003	.005	<.010
NOV												
22...	<.004	<.006	<.004	<.004	<.002	E.006	<.007	<.004	<.013	<.003	.009	<.010
DEC												
07...	<.004	<.006	<.004	<.004	<.002	E.005	<.007	<.004	<.013	<.003	.036	<.010
JAN												
19...	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010
FEB												
14...	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010
MAR												
13...	<.004	<.006	<.004	<.004	<.002	E.005	<.007	<.004	<.013	<.003	.010	<.010
APR												
03...	<.004	<.006	<.004	<.004	<.002	E.005	<.007	<.004	<.013	<.003	.008	<.010
MAY												
04...	<.004	<.006	<.004	<.004	<.002	E.009	<.007	<.004	<.013	<.003	.014	<.010
JUN												
09...	<.004	<.020	<.004	<.004	<.002	E.010	<.007	<.004	<.013	<.003	.029	<.010
26...	<.004	<.006	<.004	<.004	<.002	E.013	<.007	<.004	<.013	<.003	.026	<.010
JUL												
10...	<.004	<.050	<.004	<.004	<.002	E.011	<.007	<.004	<.013	<.003	.012	<.010
AUG												
11...	<.004	<.006	<.004	<.004	<.002	E.009	<.007	<.004	<.013	<.003	.009	<.010
SEP												
11...	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010

DATE	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER-BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)	TER-BUTHYL-AZINE, WATER, DISS, REC (µg/L) (04022)	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)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	P,P' DDE DISSOLV (µg/L) (34653)	SEDI-MENT, SUS-PENDED (mg/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 mm (70331)
OCT											
19...	<.007	<.013	E.003	<.002	<.001	<.002	<.002	<.005	<.006	22	99
NOV											
22...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	12	99
DEC											
07...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	57	99
JAN											
19...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	78	98
FEB											
14...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	77	95
MAR											
13...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	87	99
APR											
03...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	40	96
MAY											
04...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	76	99
JUN											
09...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	290	97
26...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	329	93
JUL											
10...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	331	97
AUG											
11...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	105	93
SEP											
11...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	73	91

E--Laboratory estimated value.

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	68500	110	20700	48500	71	9370	62500	61	10300
2	61800	103	16900	38100	70	7130	54400	52	7630
3	58800	102	16400	44300	63	7580	58800	56	8970
4	58300	110	17200	45400	56	6900	54700	57	8410
5	58100	99	15600	47700	53	6780	58900	57	9060
6	57500	94	14600	46600	59	7500	58000	57	8970
7	54800	90	13400	46100	63	7870	73500	57	11400
8	56700	90	13700	40400	60	6520	69000	64	11800
9	49000	99	13100	40700	66	7260	58900	62	9810
10	51700	84	11800	42700	70	7980	59500	46	7360
11	57800	76	11800	41400	69	7760	66000	51	9050
12	55600	76	11400	51900	63	8880	65300	53	9340
13	55700	91	13600	41800	62	7000	57900	61	9540
14	56000	81	12200	43300	64	7440	55300	59	8860
15	53300	75	10700	43000	55	6400	50700	52	7100
16	47500	78	10100	48500	59	7700	54000	47	7620
17	44100	81	9620	45200	57	7000	60800	56	9280
18	48400	91	11800	51100	66	9160	57100	56	8650
19	45900	76	9400	45100	63	7760	60100	63	10300
20	48700	78	10300	40700	54	5920	46000	67	8270
21	47100	84	10600	50500	54	7400	43500	67	7880
22	40000	79	8490	51400	54	7430	42000	62	7060
23	46500	83	10400	40200	56	6100	43700	68	8110
24	44400	82	9860	52100	56	7880	48300	91	11900
25	47400	74	9500	53100	53	7530	45400	96	11700
26	48200	76	9850	46700	51	6460	41500	72	8080
27	50900	74	10200	55900	51	7630	45200	76	9300
28	44200	79	9510	55300	53	7940	42300	81	9320
29	48400	77	10000	58800	58	9150	45600	77	9490
30	51500	76	10600	55900	61	9270	52000	78	11000
31	45900	73	9010	---	---	---	52700	82	11700
		JANUARY			FEBRUARY			MARCH	
1	54900	77	11500	37300	77	7720	108000	176	51600
2	59500	74	11800	36900	74	7410	99500	152	40900
3	53700	71	10300	38200	81	8210	107000	162	47000
4	45100	74	9000	30500	118	9760	112000	171	51600
5	49300	79	10600	36400	104	10200	113000	138	42300
6	54300	76	11200	42800	96	11200	114000	141	43200
7	40400	72	7760	40000	97	10500	111000	132	39600
8	44500	80	9650	42600	70	8070	107000	143	41300
9	46100	77	9590	37100	69	6940	101000	151	41300
10	43800	72	8480	35800	76	7360	99100	157	42100
11	39700	74	7910	32700	100	8800	103000	145	40300
12	51800	73	10200	41400	108	12100	102000	137	38000
13	48800	85	11200	37900	80	8130	96400	130	33600
14	47700	116	15000	38300	78	8110	93000	123	30900
15	45400	91	11200	39000	88	9330	85700	122	28200
16	36400	75	7400	36700	96	9520	88500	138	33000
17	42500	64	7420	46200	95	11900	92700	149	37200
18	37800	71	7230	43700	100	11600	92800	144	36100
19	36700	77	7600	40300	105	11400	83200	142	31800
20	34100	77	7080	40600	77	8400	77800	140	29400
21	37000	74	7410	38700	79	8230	74700	126	25400
22	39300	82	8490	34900	86	8080	77500	120	25000
23	31900	101	8720	39500	85	9090	77200	107	22300
24	32900	96	8490	41900	87	9750	67600	79	14300
25	31200	90	7550	46300	92	11600	64300	93	16100
26	35100	79	7440	74200	101	20600	60700	114	18800
27	42100	68	7720	104000	162	46000	65500	113	20200
28	44000	69	8250	113000	196	60000	53500	80	11700
29	45400	71	8700	113000	199	60800	63600	109	18700
30	39100	73	7700	---	---	---	67100	131	23700
31	39600	75	7990	---	---	---	64700	103	18000

05587455 MISSISSIPPI RIVER BELOW GRAFTON, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	69400	88	16500	108000	215	62600	103000	167	46600
2	61100	105	17300	99500	222	59700	120000	191	62500
3	62400	107	18000	101000	185	50400	139000	214	80200
4	53000	106	15100	94200	146	37000	135000	256	93400
5	63400	103	17600	86500	154	35700	150000	244	99100
6	61600	91	15200	85300	152	35000	166000	259	116000
7	60700	112	18400	89300	150	36100	171000	275	127000
8	52200	114	16000	77000	164	34100	173000	288	135000
9	54900	96	14400	73700	120	23900	179000	293	142000
10	54900	80	12100	74600	130	26200	184000	294	146000
11	56800	103	15800	80000	150	32400	189000	284	145000
12	56400	92	14100	79600	155	33400	200000	320	172000
13	64000	117	20200	75100	143	29000	206000	286	159000
14	56600	121	18400	77600	122	25600	208000	246	138000
15	51500	120	16600	81000	137	29800	214000	241	139000
16	50100	128	17400	79700	150	32400	216000	243	142000
17	50300	131	17900	79900	146	31500	220000	246	147000
18	56100	117	17700	83800	131	29600	226000	278	170000
19	63300	123	21300	77300	121	25200	231000	254	158000
20	47700	140	17800	74100	121	24200	234000	265	168000
21	67800	138	25600	92100	146	36600	245000	282	187000
22	103000	156	44000	99000	156	41900	244000	264	174000
23	121000	188	61300	106000	192	54800	237000	257	164000
24	106000	184	52200	107000	179	51600	249000	274	184000
25	103000	225	62500	110000	174	51900	260000	273	191000
26	106000	197	56100	109000	191	56400	267000	331	239000
27	105000	202	57000	120000	217	71100	281000	296	224000
28	106000	197	56600	124000	316	106000	289000	225	176000
29	106000	209	60100	116000	215	67200	291000	264	207000
30	113000	192	58300	113000	166	50500	281000	242	183000
31	---	---	---	111000	152	45500	---	---	---
		JULY			AUGUST			SEPTEMBER	
1	266000	245	176000	80000	93	20100	64100	65	11200
2	252000	232	158000	76800	104	21500	59600	75	12000
3	244000	230	152000	86400	135	31500	56800	67	10300
4	236000	229	146000	89600	144	34800	57000	69	10600
5	231000	219	136000	83700	167	37700	50200	75	10200
6	228000	203	125000	65300	118	20800	53500	67	9750
7	229000	260	161000	65900	96	17100	53800	66	9550
8	228000	273	168000	79600	85	18100	49500	62	8320
9	224000	272	164000	79200	116	24800	53200	66	9460
10	209000	306	173000	77400	116	24200	55900	62	9440
11	174000	226	106000	77100	106	22100	58700	69	10900
12	170000	241	110000	70700	88	16900	51000	69	9620
13	171000	238	110000	71200	78	15000	53800	72	10500
14	173000	229	107000	52500	70	9890	62200	72	12000
15	186000	232	116000	50700	71	9730	65400	96	17100
16	194000	191	100000	57100	77	12200	68000	96	17700
17	203000	186	102000	61600	112	18500	71000	75	14400
18	208000	229	129000	64800	111	19500	78800	71	15100
19	217000	227	133000	64600	90	15700	74300	86	17200
20	214000	214	124000	70800	79	15100	64300	83	14500
21	208000	223	125000	67100	84	15100	66800	76	13700
22	204000	204	113000	65400	77	13700	72400	89	17300
23	201000	184	99800	69300	74	13800	58600	102	16000
24	190000	195	100000	79200	86	18500	54600	118	17400
25	151000	180	73500	86200	88	20600	61000	103	17000
26	121000	133	43500	75800	80	16300	72800	95	18800
27	98000	123	32300	63300	73	12500	77000	90	18600
28	97200	129	33900	59800	65	10400	60500	88	14500
29	89400	141	33900	52100	70	9810	60000	96	15500
30	71800	124	24100	48800	72	9480	58900	98	16200
31	82100	102	22600	58600	64	10200	---	---	---

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.--Estimated daily discharges: June 24-26. Records good, except those 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water quality data. U.S. Army Corps of Engineers satellite data collection platform at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 358,000 ft^3/s Apr. 22, 1952, gage height, 25.60 ft; minimum daily discharge, 4,420 ft^3/s Jan. 13, 1957; minimum gage height, -0.19 ft Dec. 25, 1990, result of freezeup.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55100	57300	55500	37600	28600	32800	40500	40100	47400	44600	41900	35800
2	55900	57200	56000	37100	28300	33100	40400	39600	47400	43000	41400	36000
3	56000	57700	55500	36900	28600	32900	39300	39500	47000	43600	40900	36800
4	57100	58200	55800	36900	29200	31700	39000	39400	46800	48800	40400	37700
5	57100	58300	56000	36400	30300	31400	38400	39400	45800	47100	40200	37800
6	57300	57500	55400	35200	29800	31100	38300	39300	45200	45000	39400	37400
7	58000	57500	52400	33900	28900	30900	38800	39200	44800	51500	39200	37000
8	57100	57900	49600	33100	29100	30800	38800	39000	44700	55200	39100	37100
9	57500	58000	46000	32700	31000	31000	38600	40000	44100	51500	38300	37100
10	57300	58200	43600	33100	31800	31300	39200	39500	43700	47200	38000	37000
11	56800	57800	42200	33800	31500	31600	39500	39200	43300	46100	38400	37100
12	56400	58100	40400	33900	30300	31700	39700	39000	43200	44900	38400	37100
13	56600	58400	38900	33400	28900	31300	38900	39500	44200	44500	37400	37200
14	56200	58100	38000	32900	28600	30300	38900	40800	47000	44800	37500	37500
15	56500	58200	37600	33400	29200	29600	39600	42600	47200	45100	37000	37800
16	57200	58000	37300	33900	28400	28900	39900	43600	45300	42500	36200	38300
17	57100	58200	38000	34400	28400	28700	41000	43900	45000	42000	36200	38300
18	57200	58400	37400	34700	29400	28500	41800	43700	43800	41900	36800	38400
19	58100	57700	36800	33600	30300	28300	42000	44100	43100	44100	37400	38600
20	58200	57800	36600	34000	30300	28000	41000	46500	43100	43100	39000	38800
21	58300	57500	36400	35300	30300	29700	40700	47600	43600	42000	38900	39100
22	57700	57000	36100	34100	31000	32700	41000	46900	43000	42200	38200	39800
23	57400	58000	34700	33300	31700	35200	40800	47500	43600	42300	38400	39600
24	57100	58300	32600	33300	32400	38400	41100	48100	54000	41400	39100	39800
25	57000	57600	33600	33500	32600	40200	40200	47100	52000	42400	38400	40000
26	57000	57200	36100	33100	33700	40900	39900	47600	70000	42800	37600	39500
27	56600	56800	36400	32700	34500	41600	39600	48400	67600	44000	37100	39200
28	55700	55900	37000	32500	34200	41500	40300	48300	59400	45100	36800	38900
29	56600	55400	37700	31400	33000	41500	40600	48200	49800	44100	36600	38300
30	57200	55300	37900	29700	---	40900	40500	47700	46100	41400	36000	38300
31	57400	---	37800	28700	---	40700	---	47500	---	41200	36000	---
MEAN	56990	57580	42110	33820	30490	33460	39940	43320	47710	44690	38260	38040
MAX	58300	58400	56000	37600	34500	41600	42000	48400	70000	55200	41900	40000
MIN	55100	55300	32600	28700	28300	28000	38300	39000	43000	41200	36000	35800
IN.	.16	.15	.12	.09	.08	.09	.11	.12	.13	.12	.11	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2000[a], BY WATER YEAR (WY)

MEAN	45070	41210	27510	22850	28760	41380	51490	51910	57190	51380	45340	45490
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1953 - 2000[a]	
ANNUAL MEAN	59590		42230		42500	
HIGHEST ANNUAL MEAN					71880	1997
LOWEST ANNUAL MEAN					26340	1957
HIGHEST DAILY MEAN	122000	Jun 29	70000	Jun 26	289000	Jul 24 1993
LOWEST DAILY MEAN	32600	Dec 24	28000	Mar 20	4420	Jan 13 1957
ANNUAL SEVEN-DAY MINIMUM	35100	Dec 21	28800	Mar 15	5560	Nov 30 1955
INSTANTANEOUS PEAK FLOW	---		72100	Jun 26	307000	Jul 24 1993
INSTANTANEOUS PEAK STAGE	---		15.63	Jun 26	25.37	Jul 24 1993
INSTANTANEOUS LOW FLOW	---		27700	Mar 20	---	
ANNUAL RUNOFF (INCHES)	1.95		1.39		1.39	
10 PERCENT EXCEEDS	84100		57200		67000	
50 PERCENT EXCEEDS	57300		39800		39000	
90 PERCENT EXCEEDS	38000		31400		18700	

[a]Post-regulation period.

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.--Estimated daily discharges: Oct. 7 to Nov. 2, Dec. 16-29, Jan. 4 to Feb. 9. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	81	93	123	45	225	85	99	66	436	175	66
2	112	79	92	132	45	221	89	92	71	368	149	64
3	104	77	98	132	45	204	88	80	79	359	140	62
4	104	77	99	53	47	195	81	75	54	1150	156	59
5	107	81	98	43	52	172	75	68	46	1030	163	53
6	103	83	91	50	57	154	69	62	51	4310	145	47
7	103	85	89	59	68	140	72	61	47	2690	140	43
8	103	88	86	61	64	132	67	62	37	1040	122	42
9	102	87	92	61	98	121	67	71	35	658	109	43
10	102	84	90	62	115	115	66	77	29	496	94	43
11	102	87	89	57	109	109	67	75	26	407	89	40
12	99	88	89	50	73	106	65	68	371	378	84	38
13	99	87	91	41	82	102	72	62	124	503	78	33
14	99	87	90	46	83	102	80	54	442	355	75	28
15	98	86	93	59	109	98	86	52	1200	297	71	26
16	98	85	73	62	107	95	85	52	926	262	66	30
17	95	85	60	48	101	89	105	55	489	242	65	29
18	106	87	55	52	103	92	107	49	321	253	63	29
19	106	82	58	50	102	104	91	45	246	229	77	27
20	99	79	62	41	90	119	82	48	229	358	1730	39
21	92	81	62	46	98	121	139	48	217	288	1060	47
22	91	89	60	55	107	113	165	45	187	229	293	56
23	90	162	60	48	133	110	119	44	165	193	185	66
24	89	195	60	40	187	142	99	45	1900	170	171	81
25	87	184	65	43	270	164	88	37	1410	159	163	88
26	87	167	76	45	433	135	84	61	4450	155	143	73
27	85	142	82	46	462	126	92	330	2810	313	120	57
28	85	119	90	47	350	108	100	162	1350	237	106	45
29	84	107	95	47	246	94	96	109	743	451	92	40
30	83	100	114	46	---	87	93	91	539	333	79	35
31	82	---	126	46	---	83	---	80	---	218	73	---
MEAN	97.5	101	83.2	57.8	134	128	89.1	76.1	622	599	202	47.6
MAX	127	195	126	132	462	225	165	330	4450	4310	1730	88
MIN	82	77	55	40	45	83	65	37	26	155	63	26
IN.	.08	.08	.07	.05	.10	.11	.07	.06	.50	.50	.17	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2000, BY WATER YEAR (WY)

MEAN	432	513	537	367	751	1009	1552	1989	1782	1658	584	707
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	47.2	77.1	69.7	57.8	82.2	128	58.8	48.6	68.5	75.1	46.2	47.6
(WY)	1989	1989	1989	2000	1989	2000	1989	1989	1988	1988	1988	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1983 - 2000	
ANNUAL MEAN	962		186		974	
HIGHEST ANNUAL MEAN					2870	1993
LOWEST ANNUAL MEAN					186	2000
HIGHEST DAILY MEAN	17100	May 21	4450	Jun 26	52000	Jul 23 1993
LOWEST DAILY MEAN	55	Dec 18	26	Jun 11,Sep 15	26	Jun 11 2000
ANNUAL SEVEN-DAY MINIMUM	60	Dec 17	29	Sep 13	29	Sep 13 2000
INSTANTANEOUS PEAK FLOW	---		9180	Jul 6	78300	Jul 23 1993
INSTANTANEOUS PEAK STAGE	---		11.21	Jul 6	26.16	Jul 23 1993
INSTANTANEOUS LOW FLOW	---		23	Jun 11	23	Sep 9 1985
ANNUAL RUNOFF (INCHES)	9.46		1.84		9.59	
10 PERCENT EXCEEDS	2170		315		2300	
50 PERCENT EXCEEDS	333		89		404	
90 PERCENT EXCEEDS	87		46		75	

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 (06817800).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ALKA-LINITY WAT DIS FIX END FIELD $CaCO_3$ (mg/L) (39036)	ALKA-LINITY WAT DIS TOT IT FIELD (mg/L as $CaCO_3$) (39086)
NOV 02...	1000	79	12.5	112	8.6	422	8.0	K75	170	82	180	178
MAR 15...	1310	102	12.0	110	8.4	443	10.0	K5	K12	35	--	--
APR 12...	1430	63	13.3	129	8.9	409	13.0	K1	K2	K9	--	--
MAY 25...	1045	39	10.5	121	8.4	444	21.0	K11	K140	40	--	--
JUN 19...	1140	241	8.6	106	8.3	366	24.5	K330	2000	470	--	--
JUL 19...	1045	234	16.0	198	9.2	313	25.0	K10	K160	K150	--	--
AUG 16...	1115	67	9.6	134	8.6	424	31.5	K10	130	87	--	--

DATE	BICAR-BONATE WATER DIS IT FIELD (mg/L as HCO_3) (00453)	CAR-BONATE WATER DIS IT FIELD (mg/L as CO_3) (00452)	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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)
NOV 02...	213	0	--	--	--	--	210	56.5	15.7	3.0	11.1	10.6
MAR 15...	--	--	184	183	214	5	--	--	--	--	--	--
APR 12...	--	--	173	173	189	11	--	--	--	--	--	--
MAY 25...	--	--	188	188	226	1	200	54.0	16.5	3.1	14.2	13.1
JUN 19...	--	--	108	108	132	0	--	--	--	--	--	--
JUL 19...	--	--	125	125	111	20	--	--	--	--	--	--
AUG 16...	--	--	175	175	205	4	200	52.9	16.3	3.8	12.0	11.2

DATE	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)
NOV 02...	.3	35.1	<.020	.51	<.050	<.010	E.030	.015	.109	<10	7	245
MAR 15...	--	--	<.020	.49	1.20	<.010	.087	.096	.170	--	--	--
APR 12...	--	--	<.020	.94	<.050	<.010	<.050	.013	.169	--	--	--
MAY 25...	.3	32.3	<.020	.60	<.050	<.010	.076	.062	.150	15	22	255
JUN 19...	--	--	<.020	1.3	8.16	.046	.140	.133	.392	--	--	--
JUL 19...	--	--	<.020	1.2	.597	.025	.052	.042	.264	--	--	--
AUG 16...	.3	30.7	<.020	.68	<.050	<.010	.107	.082	.316	26	45	251

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

06817700 NODAWAY RIVER NEAR GRAHAM, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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 02...	<15	131	<8.0	<.1	<10	E10	<100	<1	133	<.3	<20	<31
MAY 25...	<15	299	<8.0	<.1	<10	<10	<100	<1	77	<.3	<20	<31
AUG 16...	29	754	<8.0	E.1	<10	<10	<100	1	44	<.3	<20	<31

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)	ATRAZINE, WATER, DISS, REC (µg/L) (39632)	METHYL AZINPHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	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)
MAR 15...	<.003	<.002	<.002	.063	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002
APR 12...	<.003	.190	<.002	.278	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002
MAY 25...	<.003	.018	<.002	.606	<.001	<.002	<.002	<.003	<.003	<.004	.008	<.002
JUN 19...	<.003	.207	.027	7.48	<.001	<.002	<.002	<.003	E.068	<.004	.026	<.002
JUL 19...	<.003	.012	.004	.429	<.001	<.002	<.002	<.003	<.003	<.004	.005	<.002
AUG 16...	<.003	<.002	<.002	.281	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002

DATE	DEETHYL ATRAZINE, WATER, DISS, REC (µg/L) (04040)	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 0.7 µ GF, REC (µg/L) (82666)	MALATHION, DISSOLVED (µg/L) (39532)	METOLACHLOR WATER DISSOLV (µg/L) (39415)
MAR 15...	E.022	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.022
APR 12...	E.007	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.036
MAY 25...	E.037	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.085
JUN 19...	E.490	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	1.21
JUL 19...	E.032	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.123
AUG 16...	E.069	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.043

E--Laboratory estimated value.

06817700 NODAWAY RIVER NEAR GRAHAM, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	PARA-THION, DIS-SOLVED (µg/L) (39542)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	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)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	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)
MAR												
15...	<.004	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
APR												
12...	<.004	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
MAY												
25...	<.004	<.004	<.003	<.004	<.006	<.004	<.004	<.002	E.003	<.007	<.004	<.013
JUN												
19...	.032	<.004	<.003	<.004	<.006	<.004	<.004	<.002	E.005	<.007	<.004	<.013
JUL												
19...	.013	<.004	<.003	<.004	<.006	<.004	<.004	<.002	E.005	<.007	<.004	<.013
AUG												
16...	<.004	<.004	<.003	<.004	<.006	<.004	<.004	<.002	E.005	<.007	<.004	<.013

DATE	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	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)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	P,P' DDE DISSOLV (µg/L) (34653)
MAR											
15...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
APR											
12...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
MAY											
25...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
JUN											
19...	<.003	.020	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
JUL											
19...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
AUG											
16...	<.003	.006	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006

E--Laboratory estimated value.

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.--Estimated daily discharges: Nov. 10-12, June 23, 30, and July 1, 3. Water-discharge records good except for 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 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57400	55700	55000	37700	29700	34300	40500	40900	44900	49900	41900	37200
2	57600	55500	55600	37600	29400	34400	40600	40400	45500	47700	42800	37000
3	57200	55200	55400	37200	29600	34600	40700	40000	45400	48600	41900	37400
4	57500	55300	55600	37300	30000	33700	40000	39900	45500	50200	41400	38200
5	57500	55400	55900	36700	31000	32700	40000	39900	45300	59300	41100	38700
6	56500	55500	55300	36300	31700	32300	39700	39900	44600	49700	40700	38500
7	56300	54500	53000	35000	30700	31900	40200	39800	44200	56700	40000	38100
8	56000	54500	50600	34500	30000	31900	40200	39700	44200	57400	39800	37900
9	56300	54700	47900	34300	31300	31900	40000	40200	43800	58000	39600	38200
10	56500	54600	45100	34200	33300	32300	39900	40500	43200	51600	38600	38300
11	56600	54500	43400	35300	33700	32500	40500	40100	43300	49100	38700	38100
12	56300	54400	42200	35700	32900	32900	40900	39900	43100	47300	39300	38400
13	56300	55100	40700	35500	31200	33000	40100	40000	43800	46300	39000	38200
14	56600	54800	39700	34700	30200	32500	39700	40800	45400	45900	38400	38200
15	56800	54600	39600	34300	30800	31700	40200	42500	49800	47300	38600	38300
16	56800	54600	38600	34700	30800	31700	40800	43600	47400	44900	38200	38300
17	56500	54900	38800	34800	30100	30700	41500	43800	46500	44100	37400	38400
18	55900	55200	38600	35300	30400	30900	42200	43500	45400	42900	37300	38000
19	56200	55400	37800	34800	31100	31500	42700	43300	44100	43900	37800	37800
20	56300	55500	37400	33800	31600	31500	42800	44500	43800	45300	40700	38200
21	56100	55900	37000	35100	31000	31300	41200	46600	44400	43400	41100	38200
22	55600	55900	36900	35400	31100	33800	41100	46400	43700	42500	38600	39000
23	54900	57500	35900	34000	31800	36400	41100	45700	43300	42500	37800	40000
24	55200	57700	33600	33700	32900	39200	41100	46400	70200	41700	38800	39900
25	54900	57200	32900	33800	33800	41200	41000	46100	63900	41300	39300	40700
26	55200	56600	35300	33900	34600	40900	40100	45800	69700	42100	38700	40500
27	54900	56500	36900	33500	35900	40500	40000	46900	76000	42800	38100	39700
28	54400	55600	37100	33300	36200	40200	40100	47000	70300	44800	37900	39500
29	54500	55300	37800	32800	35200	40700	40800	46100	59300	45700	37800	38900
30	55000	55000	38100	31600	---	40300	41100	45600	53100	43100	37700	38300
31	55500	---	38000	29900	---	40300	---	45100	---	41700	37100	---
MEAN	56110	55440	42760	34730	31790	34640	40690	42930	49770	47020	39230	38540
MAX	57600	57700	55900	37700	36200	41200	42800	47000	76000	59300	42800	40700
MIN	54400	54400	32900	29900	29400	30700	39700	39700	43100	41300	37100	37000
IN.	.15	.15	.12	.10	.08	.10	.11	.12	.13	.13	.11	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2000[a], BY WATER YEAR (WY)

MEAN	48750	45650	31290	25760	32510	46270	57380	58600	62640	57620	49190	49740
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1958 - 2000[a]	
ANNUAL MEAN	61850		42830		47150	
HIGHEST ANNUAL MEAN					76050	1997
LOWEST ANNUAL MEAN					30960	1963
HIGHEST DAILY MEAN	136000	May 22	76000	Jun 27	328000	Jul 26 1993
LOWEST DAILY MEAN	32900	Dec 25	29400	Feb 2	4000	Jan 17 1963
ANNUAL SEVEN-DAY MINIMUM	35500	Dec 21	30200	Jan 30	5030	Dec 15 1963
INSTANTANEOUS PEAK FLOW	---		85500	Jun 24	335000	Jul 26 1993
INSTANTANEOUS PEAK STAGE	---		16.93	Jun 24	32.07	Jul 26 1993
INSTANTANEOUS LOW FLOW	---		29200	Feb 2	4000	Jan 17 1963
ANNUAL RUNOFF (INCHES)	2.00		1.39		1.52	
10 PERCENT EXCEEDS	89100		55900		73800	
50 PERCENT EXCEEDS	56600		40500		42500	
90 PERCENT EXCEEDS	40600		32600		22000	

[a]Post-regulation period.

06818000 MISSOURI RIVER AT ST. JOSEPH, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to July 1992, November 1992 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May 1984 to December 1984, July 1985 through September 1985, April 1986 to September 1986.
DISSOLVED OXYGEN: May 1984 to November 1984, July 1985 through 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.--Discontinued as national stream-quality accounting network station, September 1986. Ambient water-quality monitoring network station since October 1986.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ALKA-LINITY WAT DIS FIX END FIELD $CaCO_3$ (mg/L) (39036)	ALKA-LINITY WAT DIS TOT IT FIELD (mg/L as $CaCO_3$) (39086)
OCT												
22...	1120	56200	9.4	91	8.6	803	12.5	K130	340	K33	170	170
NOV												
03...	1045	54800	9.8	92	8.3	801	11.0	K130	K190	K7	170	171
DEC												
07...	1030	53100	11.4	97	8.7	784	7.2	74	490	78	180	185
JAN												
06...	1030	36500	14.4	106	8.2	809	2.0	390	620	K110	190	194
FEB												
15...	1100	31200	12.3	96	8.5	793	3.5	620	580	210	210	209
MAR												
16...	1000	31000	11.8	102	8.3	785	8.0	K230	380	K73	--	--
APR												
13...	1100	40400	11.0	100	8.5	798	10.0	K1	200	71	--	--
MAY												
24...	1130	46400	6.0	69	8.2	785	20.5	800	1100	680	--	--
JUN												
16...	1115	47500	5.6	68	8.3	726	23.5	3400	6200	3000	--	--
JUL												
20...	1100	44900	5.9	76	8.2	783	27.0	K5	380	140	--	--
AUG												
15...	1045	37900	7.4	98	8.5	810	28.5	K5	K43	K18	--	--
SEP												
12...	1115	39300	8.4	103	8.6	806	24.5	K1	73	--	--	--

DATE	BICAR-BONATE WATER DIS IT FIELD (mg/L as HCO_3) (00453)	CAR-BONATE WATER DIS IT FIELD (mg/L as CO_3) (00452)	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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)
OCT												
22...	201	3	--	--	--	--	--	--	--	--	--	--
NOV												
03...	209	0	--	--	--	--	250	62.2	23.6	5.5	66.6	17.3
DEC												
07...	215	5	--	--	--	--	--	--	--	--	--	--
JAN												
06...	236	0	--	--	--	--	280	72.5	24.1	5.9	65.1	20.7
FEB												
15...	253	1	--	--	--	--	--	--	--	--	--	--
MAR												
16...	--	--	194	192	235	0	--	--	--	--	--	--
APR												
13...	--	--	184	184	222	1	--	--	--	--	--	--
MAY												
24...	--	--	176	176	215	0	260	62.4	24.4	6.3	68.2	18.4
JUN												
16...	--	--	164	164	200	0	--	--	--	--	--	--
JUL												
20...	--	--	173	173	211	0	230	55.7	22.1	6.2	69.5	17.6
AUG												
15...	--	--	170	170	201	3	--	--	--	--	--	--
SEP												
12...	--	--	172	172	205	4	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count)

06818000 MISSOURI RIVER AT ST. JOSEPH, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	FLUORIDE, DISSOLVED (mg/L as F) (00950)	SULFATE DISSOLVED (mg/L as SO_4) (00945)	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)
OCT 22...	--	--	<.020	.94	.504	<.010	E.042	.025	.108	--	--	--
NOV 03...	.5	212	<.020	.59	.536	<.010	E.037	.025	.135	10	49	520
DEC 07...	--	--	<.020	.47	.715	<.010	.069	.036	.177	--	--	--
JAN 06...	.4	193	.106	.61	1.29	<.010	.061	.057	.145	12	57	525
FEB 15...	--	--	.119	.53	1.38	.010	.120	.084	.144	--	--	--
MAR 16...	--	--	<.020	.84	1.16	<.010	.060	.068	.160	--	--	--
APR 13...	--	--	<.020	.94	.635	<.010	<.050	.035	.147	--	--	--
MAY 24...	.4	214	<.020	1.9	.809	.025	.058	.042	.564	32	334	502
JUN 16...	--	--	.051	1.8	.848	.031	.060	.068	.635	--	--	--
JUL 20...	.4	201	.020	1.0	.551	.012	.097	.080	.307	11	180	508
AUG 15...	--	--	<.020	.98	<.050	<.010	E.037	.025	.198	--	--	--
SEP 12...	--	--	<.020	.78	<.050	<.010	<.050	.017	.181	--	--	--

DATE	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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 03...	E11	679	<8.0	<.1	<10	<10	<100	1	<2	<.3	<20	<31
JAN 06...	<15	810	<8.0	E.1	<10	<10	<100	2	5	<.3	25	<31
MAY 24...	<15	6390	<8.0	.4	<10	<10	E49	10	<2	<.3	<20	38
JUL 20...	<15	2680	<8.0	.1	<10	<10	<100	4	<2	<.3	<20	E23

E--Laboratory estimated value.

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.--Estimated daily discharges: Oct. 15 to Nov. 1, Dec. 19-30, Jan. 5-8, 12-16, and Jan. 19 to Feb. 9. Records fair except for estimated daily discharges from December through February, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	46	71	65	31	200	106	161	104	802	154	63
2	104	45	66	71	40	153	98	141	223	646	114	56
3	93	44	65	79	48	249	90	128	117	871	97	48
4	90	44	63	70	52	311	83	113	171	703	87	43
5	91	44	85	57	50	223	80	101	119	983	79	39
6	95	45	105	54	52	174	76	94	78	946	87	37
7	92	46	84	58	52	146	71	86	62	2650	97	34
8	91	47	79	62	53	128	65	80	72	2000	106	32
9	90	50	94	72	60	111	62	86	67	991	83	31
10	88	49	87	81	72	96	61	79	59	643	68	29
11	81	47	71	73	71	90	60	74	61	486	59	30
12	74	47	67	62	64	85	57	82	61	409	54	41
13	66	47	64	45	65	82	55	72	135	343	49	33
14	59	46	63	45	62	79	53	65	670	340	46	29
15	56	46	67	51	63	79	52	58	1720	299	44	25
16	65	46	67	54	60	80	54	54	1960	235	41	23
17	53	46	62	66	65	74	57	51	894	446	40	22
18	52	47	56	66	100	71	59	48	557	377	39	21
19	52	46	50	60	95	92	69	44	393	227	56	20
20	51	46	45	50	82	101	123	43	354	274	1710	28
21	48	45	43	42	79	95	92	44	275	208	2670	28
22	46	49	43	38	74	90	119	41	244	170	1020	30
23	46	218	43	35	102	97	408	38	213	152	403	158
24	46	135	50	30	104	146	319	36	5220	134	226	140
25	46	131	54	30	143	194	228	34	11900	127	157	448
26	46	131	57	31	248	220	179	80	9400	120	141	256
27	46	122	54	33	374	245	203	239	11300	262	124	118
28	45	110	52	33	341	188	149	619	4140	199	104	76
29	46	90	58	33	268	144	131	370	1590	253	86	59
30	48	78	64	31	---	124	128	199	1050	175	74	49
31	46	---	66	29	---	106	---	133	---	224	66	---
MEAN	66.8	67.8	64.4	51.8	102	138	113	113	1774	539	264	68.2
MAX	118	218	105	81	374	311	408	619	11900	2650	2670	448
MIN	45	44	43	29	31	71	52	34	59	120	39	20
IN.	.04	.04	.04	.03	.06	.09	.07	.07	1.12	.35	.17	.04

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

MEAN	659	565	383	380	825	1348	1519	1660	2001	1194	454	896
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	1087		279		990	
HIGHEST ANNUAL MEAN					4108	1993
LOWEST ANNUAL MEAN					67.4	1934
HIGHEST DAILY MEAN	17000	Apr 16	11900	Jun 25	57500	Jul 25 1993
LOWEST DAILY MEAN	43	Dec 21-23	20	Sep 19	.00	At Times
ANNUAL SEVEN-DAY MINIMUM	45	Oct 31	24	Sep 15	.00	At Times
INSTANTANEOUS PEAK FLOW	---		13300	Jun 25	60800	Jul 25 1993
INSTANTANEOUS PEAK STAGE	---		23.14	Jun 25	36.07	Jul 25 1993
INSTANTANEOUS LOW FLOW	---		20[a]	Sep 18-20	.00	At Times
ANNUAL RUNOFF (INCHES)	8.39		2.16		7.65	
10 PERCENT EXCEEDS	2970		359		2120	
50 PERCENT EXCEEDS	450		74		199	
90 PERCENT EXCEEDS	50		41		24	

[a]Minumum recorded, may have been less during period of estimated record.

06821065 LITTLE PLATTE RIVER NEAR OSBORN, MO

LOCATION.--Lat 39°40'53", long 94°23'10", NE $^1/_4$ NE $^1/_4$ sec.15, T.56 N., R.31 W., Clinton County, Hydrologic Unit 10240012, on State Highway T bridge, 1 mile east of junction with U.S. Highway 33, and 4.0 mi south of Osborn.

DRAINAGE AREA.--18.6 mi^2.

PERIOD OF RECORD.--Oct. 1, 1999 to current year.

GAGE.--Water-stage recorder with arbitrary datum.

REMARKS.--Estimated daily discharges: Jan. 22 to Feb. 3, July to September, and all discharges above 8 ft^3/s. Records 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	.09	.00	.39	.03	.12	1.2	.24	.29	.43	.54	.12	.00
2	.07	.00	.41	.07	.16	1.3	.20	.24	43	.41	.09	.00
3	.00	.00	.39	.09	.21	1.3	.18	.20	2.8	.48	.07	.02
4	.00	.00	.48	.12	.26	3.1	.17	.20	.92	.61	.07	.13
5	.00	.00	.80	.06	.19	1.7	.16	.19	.35	2.0	.04	.08
6	.00	.00	1.5	.12	.22	1.0	.15	.15	.17	1.0	.06	.02
7	.00	.00	.65	.10	.21	.72	.16	.11	.08	.55	.11	.00
8	.00	.00	2.0	.13	.21	.57	.25	.12	.06	.33	.08	.00
9	.00	.00	2.6	.20	.24	.39	.20	.15	.01	.22	.10	.00
10	.00	.00	2.1	.25	.22	.23	.16	.14	.27	.12	.14	.00
11	.00	.00	.92	.25	.19	.16	.18	.17	.11	.15	.14	.02
12	.00	.00	.44	.31	.18	.15	.19	.32	.12	.20	.14	.01
13	.00	.00	.18	.31	.21	.14	.18	.24	.50	.15	.14	.00
14	.00	.00	.08	.23	.17	.14	.19	.15	8.2	.14	.15	.00
15	.00	.00	.06	.34	.20	.33	.18	.14	3.1	.15	.14	.00
16	.02	.00	.00	.29	.15	.91	.18	.14	.77	.15	.13	.00
17	.00	.00	.00	.28	.40	.46	.17	.14	.35	2.2	.12	.00
18	.00	.00	.00	.30	.85	.32	.19	.14	.15	3.1	.06	.00
19	.00	.00	.00	.31	1.3	.62	.26	.13	.01	.74	.27	.00
20	.00	.00	.00	.29	1.3	3.1	117	.12	1.1	.43	103	.00
21	.00	.00	.00	.25	.90	2.4	9.7	.22	.93	.18	2.3	.00
22	.00	.09	.00	.12	.61	1.2	1.9	.21	.42	.09	.52	.13
23	.00	.49	.00	.07	.64	.78	1.0	.17	.25	.04	.63	402
24	.00	.97	.00	.04	.65	.81	.66	.38	321	.00	.85	75
25	.00	.79	.00	.01	.78	.76	.49	.51	32	.04	.61	424
26	.00	.70	.00	.01	2.4	1.1	.44	8.6	344	.04	.42	14
27	.00	.55	.00	.01	1.5	1.0	1.6	35	5.6	.08	.33	2.4
28	.00	.45	.00	.01	.78	.51	2.5	1.8	1.8	.03	.26	1.3
29	.00	.42	.01	.02	.79	.37	.98	.68	.97	.14	.28	2.7
30	.00	.39	.01	.05	---	.33	.48	.35	.70	.15	.16	3.3
31	.00	---	.01	.09	---	.29	---	.20	---	.17	.06	---
MEAN	.006	.16	.42	.15	.55	.88	4.68	1.66	25.7	.47	3.60	30.8
MAX	.09	.97	2.6	.34	2.4	3.1	117	35	344	3.1	103	424
MIN	.00	.00	.00	.01	.12	.14	.15	.11	.01	.00	.04	.00
IN.	.00	.01	.03	.01	.03	.05	.28	.10	1.54	.03	.22	1.85

SUMMARY STATISTICS	FOR 2000 WATER YEAR	
ANNUAL MEAN	5.68	
HIGHEST DAILY MEAN	424	Sep 25
LOWEST DAILY MEAN	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 3,Dec 16
INSTANTANEOUS PEAK FLOW	951	Sep 23
INSTANTANEOUS PEAK STAGE	10.97	Sep 23
INSTANTANEOUS LOW FLOW	.00	Many Days
ANNUAL RUNOFF (INCHES)	4.16	
10 PERCENT EXCEEDS	1.6	
50 PERCENT EXCEEDS	.18	
90 PERCENT EXCEEDS	.00	

06821080 LITTLE PLATTE RIVER NEAR PLATTSBURG, MO

LOCATION.--Lat 39°34'04", long 94°24'24", SE $^1/_4$ NW $^1/_4$ sec.20, T.55 N., R.31 W., Clinton County, Hydrologic Unit 10240012, on U.S. Highway 116 bridge, 0.4 mi east of the junction with U.S. Highway 33, and 2.5 mi east of Plattsburg.

DRAINAGE AREA.--65.4 mi^2.

PERIOD OF RECORD.--Oct. 1, 1999 to current year.

GAGE.--Water-stage recorder with arbitrary datum.

REMARKS.--Estimated daily discharges: Dec. 21-29 and Jan. 21 to Feb. 5. Records fair except for estimated daily discharges and those above 500 ft^3/s, 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	2.8	.48	2.0	2.5	.86	40	1.6	2.1	1.1	5.2	3.0	.58
2	2.2	.49	2.0	2.5	.94	7.9	1.6	1.7	42	4.2	4.5	.52
3	1.8	.50	2.2	2.7	.96	7.9	1.4	1.4	20	5.8	2.9	.49
4	1.7	.51	3.4	2.8	1.0	23	1.2	1.1	4.5	5.7	1.1	.50
5	1.5	.54	8.7	2.4	1.0	10	1.1	1.0	1.9	6.5	.92	.49
6	1.3	.59	12	2.3	1.1	5.3	.88	1.0	.92	16	1.2	.48
7	1.1	.64	12	1.9	.98	3.4	.78	.96	.63	6.9	1.0	.41
8	.97	.71	8.8	1.9	.94	2.6	.73	.99	.43	3.3	1.1	.37
9	.90	.82	13	2.3	.95	2.2	.67	3.9	.30	2.1	.94	.33
10	.80	.85	21	2.8	1.1	1.8	.71	6.3	.30	1.4	.96	.30
11	.73	.90	13	2.9	1.1	1.6	.87	5.2	4.8	1.3	.99	.30
12	.66	.98	7.8	2.5	1.3	1.4	.87	95	4.4	4.1	.92	.36
13	.64	1.1	5.1	2.1	1.3	1.1	.75	14	15	2.3	.77	.31
14	.61	1.2	3.7	1.7	1.2	1.8	.79	4.2	287	1.5	.67	.26
15	.55	1.2	3.3	1.6	1.2	5.1	.83	2.4	39	1.8	.57	.22
16	.54	1.2	2.7	1.5	1.1	37	.89	1.6	8.2	1.5	.55	.18
17	.54	1.3	2.4	1.4	1.1	9.6	.91	1.4	3.0	163	.53	.16
18	.59	1.4	2.0	1.6	11	4.4	.89	1.2	1.6	22	.48	.15
19	.64	1.3	1.9	1.6	9.7	5.9	1.1	1.2	.98	12	.74	.12
20	.62	1.4	2.0	1.3	5.6	31	56	1.1	234	5.4	367	.20
21	.60	1.5	1.3	1.1	3.9	18	27	1.3	87	3.2	30	.21
22	.58	2.0	1.0	1.0	3.6	8.9	7.7	1.5	12	1.9	8.3	.67
23	.59	13	.90	.90	3.5	5.4	3.1	1.4	4.7	1.2	3.3	403
24	.58	12	.85	.80	5.8	5.7	2.1	1.3	2180	.90	2.0	190
25	.58	6.5	.90	.75	6.6	5.2	1.4	1.4	332	.99	1.5	581
26	.52	4.0	1.1	.65	8.6	4.7	1.1	66	711	.88	.94	76
27	.50	3.1	1.3	.60	6.7	59	5.1	176	62	3.4	.75	15
28	.49	2.6	1.7	.60	5.0	9.4	6.8	19	25	5.2	.93	5.7
29	.49	2.2	1.9	.68	7.2	4.1	5.2	5.8	13	2.9	.83	2.8
30	.49	2.0	2.1	.70	---	2.6	2.7	2.9	7.5	2.1	.80	1.9
31	.48	---	2.1	.75	---	1.9	---	1.6	---	1.5	.67	---
MEAN	.87	2.23	4.65	1.64	3.29	10.6	4.56	13.7	137	9.55	14.2	42.8
MAX	2.8	13	21	2.9	11	59	56	176	2180	163	367	581
MIN	.48	.48	.85	.60	.86	1.1	.67	.96	.30	.88	.48	.12
IN.	.02	.04	.08	.03	.05	.19	.08	.24	2.33	.17	.25	.73

SUMMARY STATISTICS FOR 2000 WATER YEAR

ANNUAL MEAN	20.2	
HIGHEST DAILY MEAN	2180	Jun 24
LOWEST DAILY MEAN	.12	Sep 19
ANNUAL SEVEN-DAY MINIMUM	.18	Sep 15
INSTANTANEOUS PEAK FLOW	5650	Jun 24
INSTANTANEOUS PEAK STAGE	17.05	Jun 24
INSTANTANEOUS LOW FLOW	.11[a]	Sep 18-20
ANNUAL RUNOFF (INCHES)	4.21	
10 PERCENT EXCEEDS	13	
50 PERCENT EXCEEDS	1.5	
90 PERCENT EXCEEDS	.54	

[a]Minimum recorded, may have been less during period of estimated record.

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, 148,000 ac-ft, July 18, elevation, 865.12 ft; minimum, 126,000 ac-ft, Feb. 7, elevation, 861.98 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	863.74	863.40	863.17	862.19	861.99	862.31	862.65	862.21	862.61	864.85	864.79	864.81
2	863.76	863.36	863.16	862.18	861.99	862.33	862.65	862.22	862.66	864.82	864.77	864.78
3	863.76	863.33	863.18	862.17	862.00	862.35	862.64	862.21	862.66	864.82	864.76	864.76
4	863.71	863.30	863.19	862.14	862.01	862.35	862.61	862.21	862.64	864.81	864.76	864.76
5	863.70	863.30	863.27	862.13	862.00	862.35	862.61	862.21	862.63	864.82	864.73	864.70
6	863.69	863.29	863.23	862.11	861.99	862.37	862.61	862.21	862.59	864.82	864.73	864.65
7	863.69	863.31	863.23	862.12	861.98	862.38	862.61	862.20	862.56	864.82	864.71	864.62
8	863.69	863.30	863.23	862.11	861.99	862.41	862.57	862.19	862.53	864.82	864.73	864.61
9	863.69	863.29	863.25	862.11	861.99	862.39	862.54	862.22	862.52	864.80	864.72	864.60
10	863.69	863.28	863.27	862.12	862.11	862.37	862.54	862.21	862.49	864.78	864.72	864.57
11	863.69	863.28	863.27	862.12	862.13	862.35	862.54	862.19	862.50	864.77	864.69	864.56
12	863.68	863.26	863.27	862.12	862.11	862.33	862.52	862.33	862.50	864.81	864.67	864.61
13	863.68	863.25	863.27	862.11	862.01	862.30	862.50	862.36	862.50	864.82	864.65	864.57
14	863.65	863.25	863.26	862.11	862.01	862.30	862.50	862.35	862.70	864.80	864.62	864.54
15	863.62	863.25	863.25	862.08	862.00	862.34	862.50	862.33	862.86	864.78	864.59	864.52
16	863.65	863.23	863.23	862.10	862.01	862.47	862.48	862.30	862.90	864.78	864.58	864.48
17	863.60	863.22	863.16	862.10	862.01	862.46	862.48	862.30	862.89	865.04	864.57	864.40
18	863.56	863.19	863.08	862.09	862.09	862.46	862.48	862.30	862.86	865.12	864.55	864.40
19	863.54	863.17	863.05	862.08	862.11	862.48	862.38	862.30	862.85	865.10	864.49	864.34
20	863.52	863.15	862.93	862.08	862.11	862.50	862.28	862.28	862.89	865.04	864.64	864.33
21	863.50	863.13	862.85	862.05	862.11	862.51	862.23	862.27	863.13	865.02	864.64	864.31
22	863.49	863.11	862.76	862.05	862.13	862.52	862.23	862.27	863.17	864.97	864.91	864.28
23	863.48	863.24	862.68	862.05	862.18	862.53	862.22	862.28	863.18	864.90	864.93	864.38
24	863.44	863.23	862.65	862.04	862.19	862.59	862.22	862.28	863.40	864.86	864.94	864.47
25	863.43	863.22	862.55	862.03	862.21	862.61	862.21	862.28	864.10	864.81	864.92	864.57
26	863.42	863.21	862.48	862.02	862.26	862.61	862.19	862.32	864.68	864.76	864.88	864.70
27	863.42	863.21	862.40	862.01	862.25	862.65	862.24	862.55	864.82	864.77	864.88	864.72
28	863.42	863.21	862.28	862.01	862.25	862.67	862.21	862.60	864.85	864.77	864.88	864.73
29	863.42	863.20	862.25	862.00	862.25	862.66	862.21	862.60	864.87	864.81	864.85	864.73
30	863.40	863.19	862.20	862.00	---	862.65	862.21	862.62	864.88	864.80	864.84	864.73
31	863.40	---	862.20	861.99	---	862.65	---	862.61	---	864.80	864.83	---
MEAN	863.58	863.25	862.94	862.08	862.09	862.46	862.43	862.32	863.15	864.85	864.74	864.57
MAX	863.76	863.40	863.27	862.19	862.26	862.67	862.65	862.62	864.88	865.12	864.94	864.81
MIN	863.40	863.11	862.20	861.99	861.98	862.30	862.19	862.19	862.49	864.76	864.49	864.28
(-)	136000	135000	128000	126000	128000	131000	128000	131000	146000	146000	146000	145000
(=)	-3000	-1000	-7000	-2000	+2000	+3000	-3000	+3000	+15000	0	0	-1000

CAL YR 1999.... 0
WTR YR 2000....+6000

(-) 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.--Estimated daily discharges: Jan. 30 to Feb. 2. Records fair except for 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	14	13	44	8.8	16	15	10	9.8	118	15	8.4
2	13	13	13	12	9.0	15	15	10	52	117	13	8.3
3	14	14	13	11	9.0	18	14	9.8	12	164	11	8.3
4	14	14	15	11	8.8	18	14	9.9	9.5	127	11	8.2
5	13	14	30	11	8.3	16	14	9.6	9.1	23	10	8.3
6	12	14	22	11	8.4	16	13	9.8	8.6	12	10	8.3
7	12	14	16	11	8.6	16	14	9.9	8.3	11	11	8.2
8	12	14	14	11	8.4	16	14	10	7.9	9.8	11	8.1
9	12	14	40	11	8.4	15	14	12	7.6	9.3	10	8.0
10	12	14	25	11	8.5	14	14	11	7.5	8.9	9.4	8.1
11	11	14	17	10	8.4	14	15	9.4	8.3	8.6	9.0	8.6
12	11	14	15	10	8.6	14	15	22	8.9	15	8.9	8.2
13	11	14	15	9.9	8.7	15	14	11	28	11	8.9	8.0
14	11	14	14	9.6	8.7	19	15	9.3	274	9.6	8.8	7.9
15	11	14	57	9.7	8.6	31	14	8.9	25	9.3	8.6	7.9
16	12	14	222	9.7	8.3	78	15	8.7	13	8.9	8.5	167
17	12	13	302	9.6	10	23	14	8.5	11	159	8.5	8.9
18	12	13	301	9.9	58	18	255	8.4	9.9	72	8.6	8.4
19	12	13	300	9.8	21	25	383	8.3	9.5	144	10	8.1
20	12	13	300	9.5	16	29	449	8.2	538	141	16	8.4
21	12	13	299	9.5	14	19	112	9.2	66	139	10	8.3
22	12	16	298	9.6	14	17	10	10	23	138	9.5	9.7
23	12	47	299	9.4	14	16	10	8.5	16	137	9.1	11
24	12	17	299	9.7	14	24	9.9	8.3	32	137	9.0	12
25	12	14	299	9.2	20	17	9.8	8.0	47	137	8.9	16
26	12	14	299	9.0	23	18	9.8	22	256	92	8.9	10
27	12	13	299	8.9	16	24	9.8	36	25	62	8.8	8.5
28	12	13	298	8.9	15	18	9.8	12	17	432	8.7	8.1
29	13	13	213	9.2	19	16	9.4	9.4	14	96	8.5	7.9
30	13	13	89	9.0	---	15	9.6	8.1	57	26	8.5	7.7
31	14	---	89	8.6	---	15	---	7.5	---	19	8.5	---
MEAN	12.2	14.9	146	11.1	13.5	20.2	51.0	11.1	53.7	83.7	9.86	14.1
MAX	14	47	302	44	58	78	449	36	538	432	16	167
MIN	11	13	13	8.6	8.3	14	9.4	7.5	7.5	8.6	8.5	7.7
IN.	.06	.07	.72	.05	.06	.10	.24	.05	.26	.41	.05	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2000[a], BY WATER YEAR (WY)

MEAN	187	191	104	87.2	80.6	148	200	275	238	237	180	148
MAX	960	1358	466	563	300	585	640	850	809	813	1206	1006
(WY)	1986	1999	1993	1993	1999	1985	1978	1993	1995	1996	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1977 - 2000[a]	
ANNUAL MEAN	182		36.9		173	
HIGHEST ANNUAL MEAN					476	1993
LOWEST ANNUAL MEAN					35.4	1988
HIGHEST DAILY MEAN	1510	May 8	538	Jun 20	7810	Jul 27 1981
LOWEST DAILY MEAN	7.4	Sep 23-24	7.5	May 31,Jun 10	.05	Dec 1-25 1976
ANNUAL SEVEN-DAY MINIMUM	7.6	Sep 18	8.1	Sep 9	.05	Dec 1 1976
INSTANTANEOUS PEAK FLOW	---		1760	Jun 20	21000	Aug 13 1982
INSTANTANEOUS PEAK STAGE	---		21.87	Jun 20	36.44	Aug 13 1982
INSTANTANEOUS LOW FLOW	---		4.6	Apr 21	.00	Many Years
ANNUAL RUNOFF (INCHES)	10.54		2.15		10.07	
10 PERCENT EXCEEDS	549		93		531	
50 PERCENT EXCEEDS	27		12		20	
90 PERCENT EXCEEDS	10		8.4		8.7	

[a]Post-regulation period.

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.--Estimated daily discharges: Jan. 5-10 and Jan. 21 to Feb. 8. Water-discharge records fair except 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	222	66	111	180	30	405	197	203	213	1140	303	84
2	187	61	96	103	33	311	188	240	293	909	254	73
3	169	55	89	92	38	267	180	221	374	1360	194	66
4	155	55	91	100	45	323	165	202	260	1300	162	60
5	138	55	169	64	45	430	151	181	202	1080	145	56
6	130	57	202	57	48	343	144	158	191	1060	132	53
7	133	57	175	60	55	278	137	144	122	1080	130	50
8	130	60	158	64	64	238	128	134	82	2810	147	48
9	129	60	183	74	91	209	115	134	66	1760	163	45
10	127	62	262	90	90	180	111	143	79	945	135	41
11	126	69	199	98	83	159	108	140	70	670	112	42
12	117	65	158	102	100	143	105	345	92	605	89	68
13	106	64	129	86	93	135	100	248	127	558	74	57
14	95	62	111	59	88	139	96	157	754	434	64	60
15	81	60	103	55	85	187	93	117	905	407	57	48
16	74	59	221	71	80	386	91	101	1860	375	52	74
17	77	60	394	66	79	268	88	90	1790	1090	47	159
18	81	60	393	68	219	194	164	80	886	930	41	31
19	68	62	388	80	231	186	457	73	575	666	40	27
20	63	61	384	76	192	278	545	63	1020	493	957	29
21	60	58	356	45	152	277	579	61	948	504	2060	35
22	58	61	365	42	134	234	323	69	451	436	2360	41
23	55	225	372	42	130	205	190	67	336	380	938	108
24	51	362	370	36	160	259	468	56	1180	352	451	581
25	51	242	364	34	208	320	418	47	7630	335	290	614
26	53	193	369	34	299	318	325	193	11100	321	213	1010
27	53	181	371	32	353	365	275	938	10900	335	187	474
28	54	173	362	32	481	399	305	496	10800	577	165	252
29	55	154	369	31	444	325	267	682	5370	790	150	167
30	54	133	197	31	---	263	216	508	1680	373	118	120
31	58	---	183	30	---	224	---	309	---	317	100	---
MEAN	97.1	99.7	248	65.6	143	266	224	213	2012	787	333	152
MAX	222	362	394	180	481	430	579	938	11100	2810	2360	1010
MIN	51	55	89	30	30	135	88	47	66	317	40	27
IN.	.05	.05	.12	.03	.06	.13	.11	.10	.94	.38	.16	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2000, BY WATER YEAR (WY)

MEAN	1293	1058	1131	609	1304	2052	2721	3512	2964	2977	1055	1379
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1979 - 2000	
ANNUAL MEAN	1685		386		1841	
HIGHEST ANNUAL MEAN					5697	1993
LOWEST ANNUAL MEAN					386	2000
HIGHEST DAILY MEAN	15300	Apr 19	11100	Jun 26	37300	Jul 26 1993
LOWEST DAILY MEAN	51	Oct 24,25	27	Sep 19	12	Aug 7,8,13,14 1989
ANNUAL SEVEN-DAY MINIMUM	53	Oct 24	31	Jan 27	14	Aug 7 1989
INSTANTANEOUS PEAK FLOW	---		11300	Jun 26	37800	Jul 26 1993
INSTANTANEOUS PEAK STAGE	---		26.86	Jun 26	36.43	Jul 26 1993
INSTANTANEOUS LOW FLOW	---		25[a]	Sep 20	12	Aug 7,8,13,14 1989
ANNUAL RUNOFF (INCHES)	9.61		2.21		10.51	
10 PERCENT EXCEEDS	4360		630		4440	
50 PERCENT EXCEEDS	736		148		650	
90 PERCENT EXCEEDS	72		53		75	

[a]Minimum recorded, may have been less during period of estimated record.

06821190 PLATTE RIVER AT SHARPS STATION, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1979 to 1995, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ALKA-LINITY WAT DIS FIX END FIELD $CaCO_3$ (mg/L) (39036)	ALKA-LINITY WAT DIS TOT IT FIELD (mg/L as $CaCO_3$) (39086)
NOV 01...	1030	70	7.0	70	8.0	539	14.5	K160	140	40	220	223
JAN 04...	1230	102	14.6	105	8.4	525	1.0	K7	78	64	210	212
MAR 16...	1345	440	8.8	80	8.1	488	8.5	7000	5700	4300	--	--
MAY 22...	1300	76	8.1	98	8.2	502	23.0	K33	240	390	--	--
JUL 21...	1045	516	6.6	81	8.0	348	24.5	K4	400	150	--	--
SEP 14...	1100	67	6.1	74	8.1	479	23.8	180	260	210	--	--

DATE	BICAR-BONATE WATER DIS IT FIELD (mg/L as HCO_3) (00453)	CAR-BONATE WATER DIS IT FIELD (mg/L as CO_3) (00452)	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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)
NOV 01...	272	0	--	--	--	--	250	77.0	14.6	4.8	17.5	16.7
JAN 04...	--	--	--	--	--	--	230	70.4	13.9	3.4	20.7	24.3
MAR 16...	--	--	147	145	177	0	--	--	--	--	--	--
MAY 22...	--	--	192	192	234	0	88	26.0	5.50	4.3	12.6	23.9
JUL 21...	--	--	143	143	174	0	--	--	--	--	--	--
SEP 14...	--	--	196	196	239	0	--	--	--	--	--	--

DATE	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)
NOV 01...	.3	36.8	<.020	.61	.379	.019	.097	.088	.237	16	21	320
JAN 04...	.2	38.6	<.020	.82	.272	.017	<.050	.024	.172	13	17	310
MAR 16...	--	--	.167	1.8	.566	.047	.054	.068	.398	--	--	--
MAY 22...	.4	34.3	<.020	.96	.838	.029	.077	.060	.374	30	96	290
JUL 21...	--	--	.050	.96	.429	.028	.113	.090	.368	--	--	--
SEP 14...	--	--	.043	.83	.882	.033	.105	.098	.296	--	--	--

DATE	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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 01...	<15	370	<8.0	<.1	<10	20	<100	<1	224	<.3	<20	E20
JAN 04...	E9	140	<8.0	<.1	<10	20	<100	E1	343	<.3	<20	<31
MAY 22...	<15	1960	<8.0	<.1	<10	<10	<100	3	178	<.3	<20	E15

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.--Estimated daily discharges: Oct. 19, 25, 26, Nov. 5, 16-19, Jan. 27, Jan. 29 to Feb. 1, June 19, July 26, and 27. 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 upstream; 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2970	1430	2180	5680	2150	5460	7110	1860	2690	6740	2930	3350
2	2610	1330	2110	5660	2310	5120	6630	1870	3030	6660	3380	3250
3	2400	1290	2140	5680	2680	5100	6260	1860	3560	8010	3300	3040
4	2380	1290	2070	5700	2410	5200	6300	1770	3140	5790	3400	2740
5	2300	1250	2420	5670	2400	4820	6250	1860	2520	11700	3370	2320
6	2050	1410	3140	5710	2350	4610	5920	1890	2290	12400	3320	2130
7	2060	1360	2750	5720	2280	5120	5350	2060	2100	8270	3410	2180
8	1880	1290	2440	5840	2440	6830	4660	2760	2100	7090	3620	2190
9	1890	1310	3640	5980	2350	6620	4190	3190	2060	7030	3500	2190
10	1830	1210	3730	5960	2350	5470	3880	2900	1790	6640	3170	2220
11	1710	1190	2920	5930	2370	4650	3430	2320	1740	4260	2670	2220
12	1770	1290	2700	5910	2360	4030	3470	2150	1730	3380	2990	2280
13	1640	1550	2550	5920	2340	3780	3180	3370	1940	3680	2930	2180
14	1640	1400	2460	5900	2270	4060	2900	3440	2830	3280	3160	2240
15	1540	1420	2390	5490	2370	4270	2860	2650	3020	2920	3510	2380
16	1410	1050	2600	4580	2340	4940	2410	2420	2420	3090	3060	2360
17	1800	1320	2650	3740	2300	4630	2430	2170	2120	3650	2360	2370
18	1980	1150	2670	3130	2780	3990	2450	2120	1830	3790	2220	2340
19	1400	1080	2710	2960	2770	3820	2420	2080	1650	3570	2290	2310
20	1340	1540	2730	2840	2510	3840	2320	1910	5180	2230	2290	2350
21	1350	1630	2670	2730	2450	3760	2200	1890	14700	1920	2540	2360
22	1560	1650	2630	2660	2420	3550	2290	1980	9500	1920	3010	2330
23	1370	2180	2820	2600	2480	3370	2250	1950	5070	1970	2940	2620
24	1350	2660	4620	2550	2610	4480	2300	1780	3540	1930	3150	2650
25	1300	2480	5500	2520	3220	5550	2170	1750	5190	1770	2980	2560
26	1200	2300	5680	2490	4700	5760	2160	2280	7630	1500	3230	2520
27	1340	2280	5740	2350	4820	5820	2090	3530	5460	1520	3240	2580
28	1360	2360	5770	2200	5720	12900	2040	3450	3800	2520	3120	2170
29	1370	2260	5800	2200	5690	12600	1910	2840	4260	2980	2910	2300
30	1410	2170	5650	2100	---	9700	1880	2360	5730	2420	3220	2220
31	1590	---	5560	2000	---	7760	---	2370	---	2240	3260	---
MEAN	1735	1604	3401	4206	2836	5536	3524	2349	3821	4415	3048	2432
MAX	2970	2660	5800	5980	5720	12900	7110	3530	14700	12400	3620	3350
MIN	1200	1050	2070	2000	2150	3370	1880	1750	1650	1500	2220	2130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 2000, BY WATER YEAR (WY)

MEAN	5813	4698	3682	2927	4546	7078	9721	11230	15030	11840	7051	6612
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1918 - 2000	
ANNUAL MEAN	11790		3249		7525	
HIGHEST ANNUAL MEAN					30570	1993
LOWEST ANNUAL MEAN					1326	1956
HIGHEST DAILY MEAN	93200	Jun 29	14700	Jun 21	486000	Jul 14 1951
LOWEST DAILY MEAN	1050	Nov 16	1050	Nov 16	160	Oct 11 1956
ANNUAL SEVEN-DAY MINIMUM	1280	Nov 14	1280	Nov 14	195	Oct 9 1956
INSTANTANEOUS PEAK FLOW	---		16200	Jun 21	510000	Jul 13 1951
INSTANTANEOUS PEAK STAGE	---		10.50	Jun 21	37.30	Jul 13 1951
INSTANTANEOUS LOW FLOW	---		1050	Nov 16	160	Oct 11 1956
10 PERCENT EXCEEDS	31300		5750		17900	
50 PERCENT EXCEEDS	5680		2560		3400	
90 PERCENT EXCEEDS	1640		1580		1100	

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.--Estimated daily discharges: Oct. 13-26 and Nov. 27-29. Records good except for 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59700	56900	55500	41600	30800	39600	45600	41900	46600	58800	42600	39000
2	58700	56600	55600	41700	30700	38200	45500	41500	47600	56300	43600	39000
3	58200	56400	56400	41800	30800	38100	44900	40800	48000	58500	44400	38900
4	57600	56400	56800	41800	31000	38200	44600	40300	47900	56900	43500	39600
5	57900	56300	57500	41600	31000	36700	43800	40100	47200	60800	42800	40000
6	57700	56700	57200	40900	32100	35500	43800	40100	46700	68900	42600	40100
7	57100	56300	56400	40600	32700	34800	43600	40100	46100	59800	42600	39900
8	56800	55500	53900	39800	31900	35400	43200	40200	45300	63500	42400	39300
9	56300	55300	52900	39300	31700	36100	42600	41700	45100	65200	41600	39000
10	56500	55800	50600	39100	32900	35100	42000	41900	44500	62500	41000	39400
11	56900	56100	47000	39000	34900	34700	41900	41400	44400	56000	39400	39600
12	56800	55900	45100	39700	35200	34100	42200	41200	44300	52100	39400	39800
13	56600	56200	43000	40300	34300	34000	42300	40800	44100	49200	40000	39700
14	56700	56800	41300	39700	32500	34500	41000	42000	49100	47700	39800	39300
15	56800	56500	40300	38700	31600	34800	40500	42300	49500	46200	39600	39500
16	56800	56100	39900	38100	32200	35000	40800	43800	52000	46500	39800	39600
17	56500	55900	39700	38100	32200	34500	41100	44900	50800	47900	38600	39600
18	56800	56100	40200	37900	33700	32700	42300	44700	48900	46100	37400	39600
19	56200	56000	40300	38300	33000	32700	43500	44200	46800	43500	37300	39100
20	56700	56100	39500	37200	32800	33400	44300	44200	54100	44300	39100	39200
21	56900	56600	38600	36300	32700	33300	43900	45600	60000	44600	43200	39700
22	56600	57000	38100	37500	32100	33000	42300	47700	56000	42900	44100	39800
23	56000	59500	37900	37300	32500	35000	42000	47400	49800	42300	41200	43000
24	55700	59200	37100	35900	33400	39300	42100	46800	55800	42600	39600	43300
25	55400	58700	35500	35600	35200	43100	42200	47100	78400	41900	40400	44200
26	55600	58100	35400	35700	37600	45200	41700	48200	71300	41400	40800	44000
27	56100	57500	37700	35800	38400	44100	41200	49600	81200	42700	40300	43500
28	55900	57200	39300	35300	39900	46900	40800	50200	79800	44500	39600	42000
29	55200	57000	40100	34700	40600	50000	40900	49100	72400	47900	39300	41100
30	55700	56200	40900	34300	---	48400	41500	48300	63500	47500	39300	40300
31	56400	---	41300	32700	---	46400	---	47200	---	44100	39300	---
MEAN	56740	56700	44870	38270	33460	37830	42600	44040	53910	50750	40790	40340
MAX	59700	59500	57500	41800	40600	50000	45600	50200	81200	68900	44400	44200
MIN	55200	55300	35400	32700	30700	32700	40500	40100	44100	41400	37300	38900
IN.	.13	.13	.11	.09	.07	.09	.10	.10	.12	.12	.10	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2000[a], BY WATER YEAR (WY)

MEAN	57330	53300	37310	29750	39040	56600	71400	73120	78610	71440	57580	58430
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1958 - 2000[a]	
ANNUAL MEAN	73240		45050		57030	
HIGHEST ANNUAL MEAN					102100	1993
LOWEST ANNUAL MEAN					35600	1991
HIGHEST DAILY MEAN	203000	Jun 29	81200	Jun 27	529000	Jul 27 1993
LOWEST DAILY MEAN	35400	Dec 26	30700	Feb 2	4730	Dec 18 1963
ANNUAL SEVEN-DAY MINIMUM	37200	Dec 21	31300	Jan 31	5480	Dec 17 1963
INSTANTANEOUS PEAK FLOW	---		83500	Jun 27	541000	Jul 27 1993
INSTANTANEOUS PEAK STAGE	---		19.70	Jun 27	48.87	Jul 27 1993
INSTANTANEOUS LOW FLOW	---		30500	Feb 1	4240	Dec 18 1963
ANNUAL RUNOFF (INCHES)	2.05		1.26		1.60	
10 PERCENT EXCEEDS	116000		56800		95200	
50 PERCENT EXCEEDS	59300		42300		49300	
90 PERCENT EXCEEDS	45100		34800		25200	

[a]Post-regulation period.

06893500 BLUE RIVER NEAR 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.

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.--Estimated daily discharges: May 30 and 31. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	21	21	27	26	107	42	97	46	149	63	23
2	150	18	21	26	25	63	39	27	97	92	52	24
3	104	15	23	26	27	118	37	26	53	726	47	24
4	71	14	322	28	27	70	36	31	42	386	37	55
5	57	16	300	26	26	53	33	32	38	153	42	30
6	46	14	127	25	26	51	30	29	33	102	52	25
7	38	14	63	26	27	53	27	35	29	77	146	19
8	33	15	54	26	29	47	24	35	25	61	110	19
9	30	9.5	981	25	29	50	23	428	27	54	48	20
10	28	13	307	25	28	39	23	79	72	43	39	22
11	25	16	135	25	27	36	23	53	149	40	32	24
12	22	17	91	27	27	39	21	44	82	35	30	91
13	21	7.2	67	28	28	42	20	39	120	31	29	23
14	22	9.7	55	26	27	216	21	36	1380	30	28	22
15	21	8.9	60	25	28	298	22	37	212	33	28	22
16	20	9.0	54	26	29	703	26	48	128	34	28	21
17	20	8.2	43	24	194	223	23	32	101	1100	22	21
18	19	8.8	38	27	1830	131	21	31	75	132	23	21
19	19	7.6	37	29	300	437	25	24	64	75	23	22
20	20	7.9	55	23	153	398	123	27	2900	119	23	79
21	19	7.7	42	23	97	205	50	266	1270	59	21	52
22	18	42	34	25	73	129	35	119	221	41	21	111
23	20	574	31	24	88	136	33	41	137	38	21	561
24	19	64	30	24	89	431	30	33	146	38	25	144
25	18	36	29	23	309	185	28	52	136	36	28	322
26	16	28	27	22	177	128	25	1270	350	31	26	87
27	14	27	28	24	102	94	27	1050	122	230	30	59
28	13	25	28	25	78	71	23	196	90	290	24	45
29	14	23	28	27	87	57	21	80	69	189	26	40
30	56	21	27	28	---	51	36	66	265	96	22	35
31	25	---	28	27	---	44	---	56	---	199	25	---
MEAN	35.5	36.6	103	25.5	138	152	31.6	143	283	152	37.8	68.8
MAX	150	574	981	29	1830	703	123	1270	2900	1100	146	561
MIN	13	7.2	21	22	25	36	20	24	25	30	21	19
IN.	.22	.22	.63	.16	.79	.93	.19	.87	1.68	.93	.23	.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

MEAN	132	113	97.6	94.2	127	189	272	260	282	171	83.0	171
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939 - 2000	
ANNUAL MEAN	258		100		166	
HIGHEST ANNUAL MEAN					437	1993
LOWEST ANNUAL MEAN					12.8	1956
HIGHEST DAILY MEAN	11900	Jun 28	2900	Jun 20	20000	Sep 13 1961
LOWEST DAILY MEAN	7.2	Nov 13	7.2	Nov 13	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	8.3	Nov 15	8.3	Nov 15	.00	At Times
INSTANTANEOUS PEAK FLOW	---		6420	Jun 20	41000	Sep 13 1961
INSTANTANEOUS PEAK STAGE	---		18.54	Jun 20	44.46	Sep 13 1961
INSTANTANEOUS LOW FLOW	---		4.0	Nov 13,17,21,22	.00	Several Years
ANNUAL RUNOFF (INCHES)	18.64		7.26		12.03	
10 PERCENT EXCEEDS	466		195		278	
50 PERCENT EXCEEDS	54		33		45	
90 PERCENT EXCEEDS	19		20		6.0	

06893557 BRUSH CREEK AT WARD PARKWAY IN KANSAS CITY, MO

LOCATION.--Lat 39°01'59", long 94°36'19", 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.--Estimated daily discharges: Nov. 3-22, Dec. 20-24, Jan. 14-18, Feb. 17, 18, and Aug. 7-9. Records fair except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station. Water-quality observations taken 6 times per year.

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	1.7	.58	.47	.28	.52	2.7	.58	11	.51	3.6	1.2	.36
2	7.5	.74	.46	.25	.68	.77	.53	.87	11	1.6	.78	.68
3	4.3	.58	1.2	.42	2.7	5.7	.45	.52	.75	44	.87	.48
4	1.4	.55	45	1.0	1.3	1.1	.44	.47	.48	52	.72	33
5	.88	.50	18	.36	.68	.77	.41	.43	.48	4.9	3.1	1.0
6	1.1	.58	2.7	.27	.52	.54	.40	.36	.49	3.2	15	.42
7	.95	.70	.90	.31	.57	.43	.41	.34	.44	1.8	186	.51
8	.91	.64	.76	.34	.84	.42	.44	.32	.44	1.2	85	.45
9	.97	.60	65	.36	.52	.99	.49	52	.42	.98	6.0	.89
10	.56	.55	3.1	.35	.48	1.7	2.0	1.4	19	.92	1.9	.87
11	1.4	.63	1.4	.33	.44	1.6	.52	.61	19	1.2	1.1	16
12	.66	.68	1.0	.38	.29	1.6	.29	1.7	1.8	17	.76	8.8
13	.31	.63	.81	.40	.29	1.6	.26	.56	37	1.5	.53	.58
14	.28	.75	.71	.40	.32	26	.29	.32	83	1.4	.67	.60
15	.31	.85	3.2	.40	.48	52	.37	.32	2.4	1.0	8.9	.87
16	.99	.88	1.3	.40	.57	10	.40	.32	.79	1.2	.79	.50
17	.55	.82	.66	.47	.52	2.2	.30	.39	.66	88	.50	.45
18	.40	.76	.56	.47	6.0	3.8	.31	.35	.52	13	.44	.47
19	.64	.70	2.9	.53	2.9	18	.34	.33	2.4	1.8	.43	.94
20	1.9	.70	2.3	.36	2.9	3.5	8.7	.32	255	3.6	.43	28
21	1.4	.80	.61	.33	1.2	1.9	1.1	37	15	1.6	.40	1.5
22	1.1	25	.48	.32	.90	1.3	.49	2.8	4.2	1.3	.47	17
23	.89	37	.32	.34	4.0	15	1.7	.71	2.5	.70	.50	91
24	.99	1.5	.32	.29	2.8	7.3	1.1	.42	15	.62	.57	28
25	1.1	.76	.34	.36	30	1.4	.45	1.1	49	.62	.43	54
26	1.4	.59	.32	.40	2.5	1.0	.40	98	15	8.8	.40	4.1
27	1.8	.49	.32	.44	1.0	1.8	.45	10	2.9	37	.40	2.1
28	1.9	.48	.30	.44	.72	.72	.41	2.0	2.0	74	.36	1.6
29	1.6	.53	.31	.48	12	.60	.44	.86	2.6	5.9	.36	.89
30	9.8	.67	.39	.52	---	.70	10	.60	44	14	.36	.80
31	1.1	---	.31	.57	---	.58	---	.54	---	8.2	.36	---
MEAN	1.64	2.71	5.05	.41	2.71	5.41	1.15	7.32	19.6	12.8	10.3	9.90
MAX	9.8	37	65	1.0	30	52	10	98	255	88	186	91
MIN	.28	.48	.30	.25	.29	.42	.26	.32	.42	.62	.36	.36
IN.	.15	.25	.48	.04	.24	.51	.10	.69	1.79	1.21	.97	.90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN	44.6	14.1	6.94	4.20	4.08	6.80	21.5	15.3	22.3	7.63	6.56	12.5
MAX	87.6	25.5	8.84	8.00	5.50	8.18	41.8	23.2	25.1	12.8	10.3	15.0
(WY)	1999	1999	1999	1999	1999	1999	1999	1999	1999	2000	2000	1999
MIN	1.64	2.71	5.05	.41	2.71	5.41	1.15	7.32	19.6	2.46	3.46	9.90
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999	1999	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL MEAN	11.8		6.59		13.9	
HIGHEST ANNUAL MEAN					21.3	1999
LOWEST ANNUAL MEAN					6.59	2000
HIGHEST DAILY MEAN	287	Jun 28	255	Jun 20	1520	Oct 4 1998
LOWEST DAILY MEAN	.20	Jan 26	.25	Jan 2	.00	Jul 15 1998
ANNUAL SEVEN-DAY MINIMUM	.32	Dec 23	.31	Dec 27	.00	Jul 15 1998
INSTANTANEOUS PEAK FLOW	---		2230[a]	Aug 7	2230	Aug 7 2000
INSTANTANEOUS PEAK STAGE	---		42.61	Aug 7	50.90[b]	Oct 4 1998
INSTANTANEOUS LOW FLOW	---		.25[c]	Several Days	.10	Jan 25,26 1999
ANNUAL RUNOFF (INCHES)	13.10		7.34		15.49	
10 PERCENT EXCEEDS	25		15		25	
50 PERCENT EXCEEDS	1.6		.76		1.4	
90 PERCENT EXCEEDS	.49		.34		.36	

[a]Maximum recorded, may have been higher during period of estimated record.
[b]From floodmark, discharge not determined.
[c]Minimum recorded, may have been less during period of estimated record.

06893560 BRUSH CREEK AT MAIN STREET IN KANSAS CITY, MO

LOCATION.--Lat 39°02'22", long 94°34'43", in NW $^1/_4$ SE $^1/_4$ sec.29, T.49 N., R.33 W., Jackson County, Hydrologic Unit 10300101, on the left wingwall 250 ft downstream of the Main Street/Brookside Boulevard bridge and 4 mi upstream from the Blue River.

DRAINAGE AREA.--14.9 mi^2.

PERIOD OF RECORD.--October 1970 to July 1979; July 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 800.00 ft above sea level (levels by the U.S. Geological Survey).

REMARKS.--Estimated daily discharges: Oct. 1, 14-24, Nov. 5-17, Dec. 15-22, Jan. 12, 18-20, Jan. 23 to Feb. 16, Feb. 19-22, June 6, and Aug. 25 to Sept. 30. Records poor. Flow controlled by low-water dam 50 ft downstream of gage. Flow augmented at times by recirculation of downstream water to maintain upstream pool elevation. U.S.G.S. satellite telemeter at station. Continous observations of water temperature, pH, specific conductance, dissolved oxygen, and turbity are made between May and November to be published in 2001.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge of 17,600 ft^3/s during flood of Sept. 12, 1977, determined by indirect method.

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	10	1.7	2.4	2.4	2.4	9.1	6.6	17	3.4	4.4	2.9	3.0
2	10	3.9	2.4	1.9	4.0	7.2	7.5	4.6	17	3.2	6.5	5.0
3	3.9	1.6	2.4	2.1	8.0	15	7.2	3.5	9.1	45	7.5	14
4	6.5	1.5	42	7.0	2.5	8.5	8.0	3.6	11	57	7.6	36
5	6.1	2.7	20	8.9	2.5	8.3	7.7	3.6	10	4.3	8.3	1.3
6	5.6	1.7	3.9	9.0	2.4	9.1	6.8	4.1	6.0	3.5	18	2.7
7	5.9	1.7	5.9	7.7	2.4	10	5.6	4.7	5.0	3.3	199	5.9
8	3.1	1.4	7.3	7.9	3.5	3.6	6.0	4.4	6.2	5.8	16	1.3
9	5.9	1.4	71	8.2	2.6	7.6	5.9	52	6.5	6.0	3.0	1.6
10	2.4	1.2	3.8	1.7	2.3	8.3	6.1	2.0	23	6.7	2.2	.47
11	1.5	2.3	8.0	5.5	2.1	8.8	4.7	1.3	19	12	2.7	.45
12	1.3	1.9	7.0	8.0	1.7	10	5.1	3.3	3.7	20	6.0	1.8
13	1.3	2.1	7.5	1.6	1.7	10	7.1	3.9	54	10	8.7	1.3
14	1.5	2.6	7.8	2.3	1.8	30	6.6	3.8	80	9.2	5.4	1.6
15	2.0	3.9	7.0	1.8	2.5	53	6.2	3.8	2.5	7.6	11	.37
16	5.5	2.7	8.0	2.0	2.3	17	6.3	4.2	2.1	8.6	6.3	5.0
17	5.5	3.0	4.0	2.1	42	8.0	6.1	3.4	3.0	99	5.5	4.0
18	4.0	1.6	3.5	7.5	65	9.7	6.9	3.0	3.2	9.8	5.2	2.5
19	2.7	9.6	8.0	6.0	4.0	31	6.7	4.0	4.7	1.9	2.9	7.0
20	4.5	6.6	7.0	7.0	4.0	9.7	15	4.1	322	2.7	2.4	25
21	4.8	6.3	7.0	7.3	3.0	8.6	7.9	41	15	1.9	2.6	.80
22	4.3	34	8.0	7.7	3.5	8.3	8.2	6.1	2.8	4.1	2.6	10
23	3.0	38	9.0	5.0	3.6	22	9.9	3.3	2.1	3.4	2.7	50
24	3.2	2.7	8.7	3.0	6.5	13	11	.68	16	3.3	2.8	10
25	2.4	1.5	8.0	2.5	41	2.3	10	.95	69	3.9	2.7	15
26	5.7	4.8	7.7	2.0	19	2.1	6.5	151	15	9.1	2.5	10
27	5.1	4.7	7.4	2.1	11	3.9	8.6	7.8	2.3	16	2.1	7.0
28	4.6	2.1	7.7	2.2	9.3	2.3	9.5	1.0	1.8	63	2.1	6.0
29	4.2	2.1	2.4	2.2	17	1.9	12	.83	3.7	5.7	2.0	4.0
30	10	2.3	1.9	2.4	---	2.0	22	2.2	49	11	2.5	7.0
31	4.2	---	1.6	2.5	---	7.8	---	3.4	---	8.1	2.8	---
MEAN	4.54	5.12	9.62	4.50	9.43	11.2	8.12	11.4	25.6	14.5	11.4	8.00
MAX	10	38	71	9.0	65	53	22	151	322	99	199	50
MIN	1.3	1.2	1.6	1.6	1.7	1.9	4.7	.68	1.8	1.9	2.0	.37
IN.	.35	.38	.75	.35	.68	.87	.61	.88	1.92	1.12	.89	.60

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

MEAN	16.1	6.99	5.15	3.55	4.84	12.4	11.9	11.9	15.6	7.79	5.70	10.4
MAX	102	36.8	13.9	9.80	11.4	76.7	60.3	26.0	53.2	15.5	11.9	35.8
(WY)	1999	1999	1972	1999	1972	1973	1999	1974	1999	1973	1975	1998
MIN	.42	1.06	.11	.000	.36	3.07	.58	4.01	3.32	1.43	.60	.42
(WY)	1979	1971	1977	1977	1978	1976	1977	1976	1973	1975	1976	1976

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	19.1		10.3		10.1	
HIGHEST ANNUAL MEAN					30.1	1999
LOWEST ANNUAL MEAN					3.94	1976
HIGHEST DAILY MEAN	810	Jun 28	322	Jun 20	1710	Oct 4 1998
LOWEST DAILY MEAN	1.2	Nov 10	.37	Sep 15	.00	Dec 9-16 1972, Jan 1-Feb 11 1977
ANNUAL SEVEN-DAY MINIMUM	1.7	Nov 4	1.1	Sep 9	.00	Dec 9 1972
INSTANTANEOUS PEAK FLOW	---		3140	Aug 7	17600	Sep 12 1977
INSTANTANEOUS PEAK STAGE	---		16.99	Aug 7	24.50	Oct 4 1998
INSTANTANEOUS LOW FLOW	---		Unknown[a]		.00	1972,1973,1977,1978
ANNUAL RUNOFF (INCHES)	17.42		9.40		9.26	
10 PERCENT EXCEEDS	30		17		14	
50 PERCENT EXCEEDS	7.0		5.0		2.0	
90 PERCENT EXCEEDS	2.4		1.8		.30	

[a]Occurred during period of estimated record.

06893562 BRUSH CREEK AT ROCKHILL ROAD IN KANSAS CITY, MO

LOCATION.--Lat 39°02'21", long 94°34'43", 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.

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.--Estimated daily discharges: Dec. 15 to Jan. 1, Jan. 24 to Feb. 17, and July 3-6. Records poor. Flow controlled by low-water dam 300 ft downstream of gage. U.S.G.S. satellite telemeter at station. Continous observations of water temperature, pH, specific conductance, dissolved oxygen, and turbity between May and November.

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	3.6	3.1	2.6	2.3	3.1	5.6	3.1	11	3.3	6.8	4.9	2.3
2	6.8	2.2	2.3	2.1	6.0	3.4	2.7	3.7	11	5.7	4.9	2.4
3	4.8	2.8	2.5	3.1	12	6.7	1.9	2.6	3.4	60	4.6	2.4
4	3.7	2.2	40	3.7	5.0	3.8	1.7	2.6	2.5	70	4.5	43
5	3.3	2.1	15	2.3	2.9	2.9	1.9	2.2	3.1	20	5.1	4.9
6	3.2	1.7	5.1	2.3	3.0	2.7	2.2	2.0	3.5	8.0	10	4.4
7	3.6	2.6	3.5	2.4	3.3	2.0	1.8	1.9	3.0	5.0	222	4.0
8	3.2	2.1	3.2	2.5	4.5	2.3	1.9	2.4	3.0	4.4	15	4.3
9	3.2	2.1	76	2.8	2.8	.67	2.1	55	2.9	4.0	5.1	3.5
10	3.2	2.0	5.5	2.4	2.5	1.5	3.2	5.8	16	3.7	4.4	5.3
11	3.3	2.5	3.9	2.0	2.3	1.5	2.5	4.0	17	8.7	3.9	11
12	3.4	2.8	3.7	2.5	2.1	1.5	1.6	3.8	5.3	11	3.7	9.2
13	2.5	2.5	3.2	2.0	2.1	1.6	1.6	2.9	58	4.4	5.1	4.9
14	2.3	2.4	3.0	2.1	2.5	26	1.7	2.1	89	3.9	3.2	4.3
15	2.5	3.0	4.8	2.4	3.8	53	1.8	2.0	5.6	3.7	6.2	3.6
16	4.5	3.7	5.2	2.4	2.5	11	1.8	2.4	4.7	4.3	3.8	3.3
17	4.5	3.0	2.2	2.7	25	4.7	1.5	2.7	4.5	117	3.0	3.8
18	4.0	2.8	2.0	2.3	75	5.1	1.6	2.3	3.9	11	2.5	2.9
19	2.3	2.6	5.6	2.8	5.1	17	2.2	1.9	4.8	5.5	2.5	2.2
20	3.4	2.8	4.8	3.8	5.2	5.6	8.4	2.1	374	6.0	2.4	15
21	3.6	2.7	2.5	4.1	4.2	4.6	3.6	36	13	5.0	2.4	4.7
22	3.3	34	2.2	3.9	4.3	4.2	2.1	6.8	6.5	4.7	2.3	19
23	1.7	38	2.1	8.2	5.9	16	3.1	6.3	6.0	3.9	2.5	121
24	1.8	5.1	2.1	4.0	5.0	10	3.2	5.2	17	3.5	2.5	15
25	1.7	4.1	2.0	2.7	32	6.8	1.8	5.0	90	3.5	2.3	36
26	2.0	3.2	1.9	2.5	5.4	6.2	2.3	161	16	10	1.8	6.7
27	2.3	2.6	1.9	2.6	4.8	5.0	2.4	11	6.1	42	1.6	5.8
28	3.4	2.4	2.0	2.8	4.2	3.9	2.6	5.3	5.5	67	1.5	5.4
29	2.7	2.4	2.1	2.8	11	4.2	2.8	4.8	6.0	7.7	1.7	4.5
30	8.3	2.9	2.0	3.1	---	4.2	8.5	3.6	48	10	2.1	4.6
31	4.7	---	2.3	3.3	---	3.0	---	3.2	---	10	2.3	---
MEAN	3.45	4.95	7.01	2.93	8.53	7.31	2.65	11.7	27.8	17.1	11.0	12.0
MAX	8.3	38	76	8.2	75	53	8.5	161	374	117	222	121
MIN	1.7	1.7	1.9	2.0	2.1	.67	1.5	1.9	2.5	3.5	1.5	2.2
IN.	.23	.32	.47	.20	.54	.50	.17	.79	1.82	1.16	.74	.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN	74.3	23.2	8.96	7.15	7.71	12.6	35.9	19.1	32.6	10.1	9.06	22.7
MAX	145	41.4	10.9	11.4	8.53	18.0	69.1	26.5	37.4	17.1	11.0	39.8
(WY)	1999	1999	1999	1999	2000	1999	1999	1999	1999	2000	2000	1998
MIN	3.45	4.95	7.01	2.93	6.86	7.31	2.65	11.7	27.8	3.08	6.71	12.0
(WY)	2000	2000	2000	2000	1999	2000	2000	2000	2000	1999	1999	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL MEAN	17.5		9.68		21.3	
HIGHEST ANNUAL MEAN					32.9	1999
LOWEST ANNUAL MEAN					9.68	2000
HIGHEST DAILY MEAN	432	Jun 28	374	Jun 20	2540	Oct 4 1998
LOWEST DAILY MEAN	.77	Sep 3	.67	Mar 9	.67	Mar 9 2000
ANNUAL SEVEN-DAY MINIMUM	1.3	Jul 13	1.6	Mar 7	1.3	Jul 13 1999
INSTANTANEOUS PEAK FLOW	---		3050	Aug 7	21700	Oct 4 1998
INSTANTANEOUS PEAK STAGE	---		9.25	Aug 7	21.71[a]	Oct 4 1998
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Many Days
ANNUAL RUNOFF (INCHES)	13.95		7.74		16.97	
10 PERCENT EXCEEDS	34		15		34	
50 PERCENT EXCEEDS	4.3		3.5		4.4	
90 PERCENT EXCEEDS	2.0		2.0		2.1	

[a]From floodmark, discharge determined by indirect method.

06893590 BLUE RIVER AT 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 mile 4.3.

DRAINAGE AREA.--258 mi^2.

PERIOD OF RECORD.--Oct. 1, 1999 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.--Estimated daily discharges: Oct. 12-21, Nov. 1-8, Nov. 25 to Dec. 1, Dec. 10, Dec. 26 to Feb. 17, March 7-13, April 7-11, June 23, July 24, 25, 30, Aug. 5-7, and Aug. 12-21. Records 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	38	35	39	28	129	74	136	57	318	80	31
2	156	30	29	37	27	90	73	65	125	111	80	32
3	168	30	29	36	27	98	75	42	97	852	65	34
4	115	28	175	37	28	112	79	37	60	506	56	174
5	96	31	386	38	28	77	67	33	41	392	42	94
6	80	31	194	40	27	67	60	28	33	150	50	48
7	65	30	113	40	27	65	53	27	29	93	323	40
8	55	28	84	39	28	53	48	31	27	70	687	31
9	50	26	820	42	27	52	46	354	23	57	70	29
10	49	22	387	45	29	46	52	166	53	39	41	29
11	45	23	185	35	28	36	41	66	170	40	37	33
12	37	25	133	35	28	39	39	51	144	140	31	92
13	35	24	108	38	28	37	37	48	89	43	29	88
14	34	22	89	35	27	149	38	36	1620	34	29	51
15	35	25	89	33	27	240	36	33	453	35	28	32
16	32	25	98	33	27	738	36	42	160	38	28	28
17	28	26	80	36	50	245	30	33	129	1270	28	28
18	25	25	67	31	1730	158	29	32	76	266	28	28
19	25	24	64	27	393	260	29	30	55	119	28	25
20	24	23	93	24	192	385	85	30	2450	81	28	64
21	27	25	89	26	142	218	116	46	2390	131	28	97
22	27	36	66	27	112	161	56	262	354	74	29	75
23	27	655	57	26	97	135	44	58	191	49	29	1110
24	30	150	48	25	121	347	48	39	172	38	29	249
25	29	79	46	25	221	209	42	43	203	32	33	514
26	28	55	41	25	244	154	41	876	680	29	35	183
27	26	43	39	25	134	139	39	1090	234	309	35	76
28	26	37	39	26	102	116	40	295	156	337	36	54
29	25	34	39	27	97	102	35	121	94	474	30	44
30	34	37	40	28	---	89	37	82	205	112	30	39
31	92	---	40	29	---	83	---	69	---	238	28	---
MEAN	54.5	56.2	123	32.5	141	156	50.8	139	352	209	68.7	115
MAX	168	655	820	45	1730	738	116	1090	2450	1270	687	1110
MIN	24	22	29	24	27	36	29	27	23	29	28	25

SUMMARY STATISTICS FOR 2000 WATER YEAR

ANNUAL MEAN	124	
HIGHEST DAILY MEAN	2450	Jun 20
LOWEST DAILY MEAN	22	Nov 10
ANNUAL SEVEN-DAY MINIMUM	24	Nov 10
INSTANTANEOUS PEAK FLOW	4840	Jun 20
INSTANTANEOUS PEAK STAGE	14.84	Jun 20
INSTANTANEOUS LOW FLOW	20	Jun 9
10 PERCENT EXCEEDS	244	
50 PERCENT EXCEEDS	43	
90 PERCENT EXCEEDS	27	

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, 23,400 ac-ft, June 21, elevation, 892.31 ft; minimum, 21,100 ac-ft, Nov. 21 and 22, elevation, 889.79 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	891.74	889.98	890.25	891.18	890.82	891.44	891.25	891.10	891.28	891.38	891.22	890.59
2	891.64	889.98	890.25	891.18	890.82	891.41	891.23	891.11	891.25	891.35	891.18	890.58
3	891.60	889.94	890.25	891.17	890.81	891.32	891.20	891.10	891.22	891.89	891.15	890.54
4	891.53	889.93	890.26	891.18	890.81	891.26	891.19	891.09	891.19	891.83	891.14	890.59
5	891.48	889.92	890.45	891.17	890.81	891.24	891.19	891.08	891.15	891.72	891.13	890.58
6	891.42	889.92	890.52	891.16	890.81	891.22	891.15	891.07	891.13	891.59	891.09	890.55
7	891.38	889.91	890.53	891.16	890.81	891.22	891.14	891.08	891.11	891.50	891.09	890.53
8	891.33	889.90	890.53	891.16	890.81	891.22	891.11	891.17	891.10	891.42	891.11	890.51
9	891.30	889.90	890.70	891.17	890.81	891.18	891.10	891.13	891.06	891.36	891.08	890.49
10	891.27	889.91	891.04	891.18	890.82	891.17	891.10	891.20	891.04	891.30	891.06	890.47
11	891.24	889.89	891.07	891.17	890.82	891.15	891.09	891.21	891.20	891.24	891.04	890.47
12	891.22	889.88	891.09	891.13	890.81	891.14	891.08	891.18	891.27	891.21	891.01	890.45
13	891.20	889.89	891.11	891.10	890.81	891.14	891.07	891.14	891.23	891.17	890.99	890.42
14	891.17	889.88	891.13	891.06	890.82	891.15	891.06	891.12	891.48	891.15	890.97	890.39
15	891.15	889.88	891.16	891.02	890.82	891.22	891.06	891.11	891.57	891.13	890.97	890.36
16	891.12	889.87	891.17	890.98	890.82	891.42	891.06	891.08	891.49	891.11	890.95	890.35
17	891.09	889.86	891.17	890.94	890.82	891.43	891.04	891.07	891.46	891.25	890.92	890.31
18	891.07	889.86	891.18	890.91	891.60	891.40	891.05	891.11	891.38	891.26	890.88	890.29
19	890.93	889.81	891.18	890.91	891.72	891.41	891.07	891.03	891.34	891.23	890.86	890.26
20	890.79	889.80	891.21	890.85	891.68	891.47	891.18	891.04	891.37	891.22	890.84	890.22
21	890.64	889.79	891.21	890.85	891.62	891.45	891.16	891.04	892.31	891.16	890.81	890.24
22	890.49	889.79	891.20	890.85	891.58	891.42	891.15	891.06	892.06	891.13	890.79	890.22
23	890.33	890.20	891.20	890.85	891.54	891.39	891.14	891.06	891.87	891.11	890.77	890.63
24	890.17	890.26	891.18	890.85	891.52	891.42	891.13	891.04	891.74	891.09	890.77	890.76
25	890.01	890.26	891.18	890.84	891.50	891.41	891.12	891.04	891.60	891.07	890.74	890.96
26	889.99	890.26	891.18	890.84	891.54	891.39	891.12	891.15	891.61	891.05	890.73	891.02
27	889.98	890.25	891.18	890.83	891.52	891.37	891.11	891.48	891.55	891.11	890.74	891.01
28	889.97	890.25	891.17	890.82	891.49	891.33	891.09	891.47	891.47	891.11	890.71	891.00
29	889.97	890.25	891.17	890.82	891.44	891.29	891.08	891.42	891.40	891.25	890.67	890.99
30	889.98	890.25	891.17	890.82	---	891.28	891.07	891.35	891.34	891.23	890.65	890.98
31	889.98	---	891.18	890.82	---	891.27	---	891.33	---	891.23	890.62	---
MEAN	890.88	889.98	890.94	891.00	891.12	891.31	891.12	891.15	891.41	891.29	890.93	890.56
MAX	891.74	890.26	891.21	891.18	891.72	891.47	891.25	891.48	892.31	891.89	891.22	891.02
MIN	889.97	889.79	890.25	890.82	890.81	891.14	891.04	891.03	891.04	891.05	890.62	890.22
(-)	21200	21500	22300	22000	22600	22400	22200	22500	22500	22400	21800	22100
(=)	-1800	+300	+800	-300	+600	-200	-200	+300	0	-100	-600	+300

CAL YR 1999....+100
WTR YR 2000....-900

(-) 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, 11,500 ac-ft, June 21, 22, elevation, 802.82 ft; minimum, 9,500 ac-ft, Dec. 15, elevation, 800.10 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	802.59	802.16	801.89	800.42	800.37	801.40	802.46	802.17	802.18	802.59	802.24	801.85
2	802.62	802.10	801.72	800.43	800.37	801.49	802.46	802.16	802.21	802.56	802.23	801.83
3	802.62	802.09	801.58	800.44	800.38	801.53	802.45	802.15	802.19	802.65	802.22	801.82
4	802.61	802.09	801.40	800.36	800.38	801.50	802.42	802.14	802.18	802.56	802.20	801.77
5	802.59	802.09	801.34	800.36	800.37	801.48	802.43	802.13	802.16	802.54	802.19	801.80
6	802.58	802.09	801.20	800.37	800.38	801.45	802.37	802.13	802.14	802.51	802.19	801.77
7	802.58	802.09	801.02	800.37	800.39	801.65	802.35	802.12	802.12	802.47	802.18	801.74
8	802.56	802.09	800.87	800.39	800.40	801.69	802.34	802.14	802.11	802.45	802.26	801.74
9	802.54	802.08	800.73	800.39	800.40	801.70	802.33	802.20	802.10	802.41	802.24	801.72
10	802.52	802.08	800.67	800.41	800.41	801.70	802.31	802.22	802.08	802.38	802.22	801.71
11	802.49	802.08	800.54	800.40	800.39	801.72	802.30	802.20	802.11	802.34	802.20	801.69
12	802.46	802.06	800.42	800.40	800.38	801.72	802.28	802.20	802.19	802.39	802.18	801.74
13	802.46	802.06	800.28	800.40	800.37	801.70	802.26	802.18	802.18	802.36	802.16	801.71
14	802.41	802.06	800.14	800.39	800.37	801.70	802.25	802.17	802.35	802.33	802.14	801.69
15	802.40	802.05	800.10	800.40	800.35	801.83	802.27	802.14	802.37	802.31	802.14	801.67
16	802.38	802.04	800.15	800.41	800.37	801.94	802.24	802.13	802.36	802.28	802.12	801.65
17	802.35	802.02	800.17	800.40	800.37	802.00	802.22	802.13	802.37	802.32	802.11	801.63
18	802.32	802.02	800.19	800.40	800.84	801.98	802.20	802.14	802.35	802.32	802.08	801.61
19	802.30	802.02	800.22	800.41	800.73	802.06	802.21	802.11	802.34	802.31	802.05	801.58
20	802.29	801.98	800.25	800.37	800.81	802.18	802.24	802.10	802.44	802.26	802.03	801.55
21	802.28	801.98	800.25	800.38	800.89	802.24	802.22	802.09	802.82	802.27	802.02	801.57
22	802.27	801.97	800.26	800.39	800.96	802.28	802.22	802.09	802.82	802.25	802.01	801.55
23	802.26	802.08	800.29	800.39	801.04	802.31	802.20	802.08	802.80	802.23	801.98	801.70
24	802.25	802.06	800.32	800.38	801.10	802.38	802.21	802.08	802.79	802.20	801.98	801.75
25	802.24	802.05	800.34	800.38	801.18	802.41	802.21	802.06	802.76	802.18	801.96	801.85
26	802.23	802.05	800.36	800.37	801.26	802.43	802.21	802.13	802.77	802.16	801.96	801.84
27	802.22	802.04	800.37	800.36	801.29	802.49	802.18	802.19	802.73	802.19	801.95	801.84
28	802.20	802.04	800.37	800.36	801.34	802.51	802.17	802.20	802.69	802.23	801.93	801.83
29	802.17	802.03	800.37	800.35	801.40	802.49	802.16	802.18	802.64	802.28	801.90	801.82
30	802.16	802.02	800.40	800.37	---	802.48	802.16	802.19	802.60	802.26	801.89	801.79
31	802.17	---	800.41	800.37	---	802.48	---	802.18	---	802.25	801.86	---
MEAN	802.39	802.06	800.60	800.39	800.67	801.97	802.28	802.15	802.40	802.35	802.09	801.73
MAX	802.62	802.16	801.89	800.44	801.40	802.51	802.46	802.22	802.82	802.65	802.26	801.85
MIN	802.16	801.97	800.10	800.35	800.35	801.40	802.16	802.06	802.08	802.16	801.86	801.55
(-)	11000	10900	9730	9700	10400	11200	11000	11000	11300	11000	10800	10700
(=)	-300	-100	-1170	-30	+700	+800	-200	0	+300	-300	+800	-100

CAL YR 1999....-1470
WTR YR 2000.... +390

(-) 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.--Estimated daily discharges: Oct. 5-7, Jan. 3, and Jan. 28 to Feb. 6. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	18	88	31	21	42	45	14	31	96	38	8.1
2	129	23	88	34	23	32	43	15	44	70	29	10
3	124	15	88	36	24	38	39	15	31	236	25	10
4	101	31	132	39	26	32	35	16	23	203	22	13
5	84	36	187	34	28	28	33	17	18	146	19	26
6	79	29	128	38	30	26	31	17	14	110	20	14
7	62	10	100	40	32	24	29	19	11	83	67	7.4
8	55	10	93	35	30	23	24	21	9.8	67	210	5.3
9	49	12	281	35	30	22	24	95	7.8	57	41	4.4
10	44	11	185	35	31	22	23	53	74	49	25	3.9
11	39	13	119	34	30	20	22	24	125	41	19	3.7
12	37	16	105	29	28	21	20	25	86	174	15	50
13	32	13	98	32	27	22	18	20	37	46	13	10
14	30	10	91	28	27	56	17	17	509	35	11	7.2
15	26	10	39	28	26	61	17	15	145	32	11	5.8
16	24	10	33	26	24	199	17	13	90	27	11	4.5
17	21	11	29	24	26	84	14	13	75	158	11	12
18	18	11	27	24	654	60	13	13	60	106	7.4	28
19	57	9.0	26	23	193	111	13	11	52	51	7.3	38
20	88	10	36	26	129	105	32	10	1510	41	8.8	51
21	88	13	28	23	101	76	31	10	417	33	9.4	31
22	84	23	27	25	84	65	19	11	255	28	8.6	17
23	82	246	25	26	74	60	17	8.6	194	23	9.0	271
24	84	51	24	23	71	99	18	9.1	193	20	9.5	87
25	82	25	23	24	87	73	14	8.7	143	17	11	232
26	42	17	23	23	78	88	14	105	257	15	14	69
27	11	14	23	21	53	108	14	190	136	106	11	37
28	7.4	12	22	20	44	68	13	72	108	91	6.9	28
29	5.8	10	23	20	42	58	12	50	88	106	6.0	20
30	11	16	26	20	---	53	13	42	88	45	7.2	16
31	25	---	27	21	---	49	---	36	---	69	9.2	---
MEAN	56.9	24.5	72.4	28.3	71.5	58.9	22.5	31.8	161	76.8	23.0	37.3
MAX	144	246	281	40	654	199	45	190	1510	236	210	271
MIN	5.8	9.0	22	20	21	20	12	8.6	7.8	15	6.0	3.7
IN.	.36	.15	.45	.18	.42	.37	.14	.20	.98	.48	.14	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2000, BY WATER YEAR (WY)

MEAN	136	111	91.4	88.8	129	194	246	270	262	147	93.3	158
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1948 - 2000	
ANNUAL MEAN	227		55.3		161	
HIGHEST ANNUAL MEAN					440	1993
LOWEST ANNUAL MEAN					11.5	1956
HIGHEST DAILY MEAN	5050	Jun 28	1510	Jun 20	27700	Aug 13 1982
LOWEST DAILY MEAN	5.6	Aug 6	3.7	Sep 11	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	7.0	Sep 19	8.2	Aug 28	.00	Several Years
INSTANTANEOUS PEAK FLOW	---		3820	Jun 20	42300	Aug 13 1982
INSTANTANEOUS PEAK STAGE	---		13.42	Jun 20	27.94	Sep 14 1961
INSTANTANEOUS LOW FLOW	---		3.3	Sep 17	.00	Several Years
ANNUAL RUNOFF (INCHES)	16.77		4.09		11.88	
10 PERCENT EXCEEDS	510		109		315	
50 PERCENT EXCEEDS	84		28		48	
90 PERCENT EXCEEDS	11		10		8.0	

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.--No estimated daily discharges. Records good. Some regulation from many upstream reservoirs. U.S. Army Corps of Engineers 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	63000	56900	57300	41300	33100	42100	49100	43500	49200	65400	46400	40300
2	61900	57400	56700	41600	31100	40800	48500	44000	48900	61300	45000	39900
3	61300	56900	57100	42000	31200	39700	48200	43400	49800	59800	46100	39800
4	60900	57200	58000	42500	31400	39700	47500	42600	50000	62700	46600	39600
5	60500	57300	58800	42200	31800	39600	46600	42000	49700	60600	45900	40200
6	60400	57200	59100	42300	31800	38100	45500	41800	48900	69100	45300	40600
7	59200	57800	58600	41800	32700	36900	45900	41800	48200	70200	45200	40500
8	58800	57400	56600	40900	33300	36300	45300	41800	47400	63500	46100	40300
9	58100	56900	55200	40400	32500	37300	44900	42500	46900	67800	45500	39700
10	57400	56800	54900	40500	32100	37900	44500	44100	46800	68500	44000	39400
11	57200	57200	51100	40200	33300	37200	44000	44100	46500	63400	43400	39800
12	57300	57600	47600	40400	35500	36400	43800	43600	46700	58100	41800	40300
13	57400	57500	45400	41000	36300	36100	44600	43200	46200	55000	41800	40400
14	57000	57900	43200	41400	35100	36100	44200	43000	49600	52300	42400	40300
15	57200	58000	41800	40800	33000	37100	42800	44200	55400	51300	42100	39800
16	57500	57800	40500	39900	31900	38600	42400	44600	53300	50600	41800	39900
17	57700	57400	40100	39400	32400	40000	42800	46500	54800	52100	42000	40100
18	57700	57200	39700	39200	34700	37700	43300	47500	53200	55500	40600	40000
19	57700	57700	40100	38900	38900	35500	44600	47100	50800	52000	39400	40100
20	57200	57700	39800	38600	35400	35800	46100	46500	52000	48900	41300	39700
21	57600	58100	38700	37300	33900	36400	46900	46700	76800	49400	45700	39900
22	57700	58600	38300	37000	33800	35700	45800	48600	68100	48900	46900	40100
23	57200	60500	37900	38300	33200	35600	44100	50400	58800	46700	46800	41200
24	56300	61600	37500	37800	33600	38300	43800	49500	53000	45500	43500	45500
25	56000	61300	36700	36600	34600	43800	44000	49400	78500	45300	41800	45500
26	56000	60400	35500	36300	36800	48100	44100	50400	86500	44000	42400	46300
27	56000	59400	36100	36400	39200	49900	43500	52700	85300	44100	42600	45700
28	55900	58900	38500	36400	40000	48600	43100	53600	91500	46100	41900	44600
29	56000	58800	39900	36000	41400	52400	42600	53000	84300	48800	41000	43000
30	55600	58000	40400	35600	---	53700	42700	51600	72900	51500	40500	41800
31	56200	---	41000	34900	---	51300	---	50500	---	49900	40500	---
MEAN	57930	58110	45870	39290	34280	40410	44840	46260	58330	55110	43430	41140
MAX	63000	61600	59100	42500	41400	53700	49100	53600	91500	70200	46900	46300
MIN	55600	56800	35500	34900	31100	35500	42400	41800	46200	44000	39400	39400
IN.	.14	.13	.11	.09	.08	.10	.10	.11	.13	.13	.10	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2000[a], BY WATER YEAR (WY)

MEAN	58350	54080	38860	30860	40430	56560	74520	76450	81940	74600	58380	58350
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1958 - 2000[a]	
ANNUAL MEAN	78170		47120		58760	
HIGHEST ANNUAL MEAN					109900	1993
LOWEST ANNUAL MEAN					35950	1963
HIGHEST DAILY MEAN	227000	Jun 30	91500	Jun 28	611000	Jul 28 1993
LOWEST DAILY MEAN	35500	Dec 26	31100	Feb 2	5000	Dec 20 1963
ANNUAL SEVEN-DAY MINIMUM	37200	Dec 22	31900	Feb 1	5540	Dec 17 1963
INSTANTANEOUS PEAK FLOW	---		95300	Jun 25	633000	Jul 27 1993
INSTANTANEOUS PEAK STAGE	---		18.35	Jun 25	31.15	Jul 27 1993
INSTANTANEOUS LOW FLOW	---		30900	Feb 2,3	5000	Dec 20 1963
ANNUAL RUNOFF (INCHES)	2.18		1.32		1.64	
10 PERCENT EXCEEDS	130000		58800		98800	
50 PERCENT EXCEEDS	62100		44600		50100	
90 PERCENT EXCEEDS	47200		36300		25700	

[a]Post-regulation period.

06896187 MIDDLE FORK GRAND RIVER NEAR GRANT CITY, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

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.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREPTOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ALKALINITY WAT DIS FIX END FIELD $CaCO_3$ (mg/L) (39036)	ALKALINITY WAT DIS TOT IT FIELD (mg/L as $CaCO_3$) (39086)
NOV												
10...	0945	2.0	10.0	90	7.9	572	9.5	K130	140	710	230	230
JAN												
12...	0930	2.0	14.7	103	8.3	584	.5	K54	K29	80	230	228
MAR												
22...	1515	1.9	12.2	125	8.5	578	15.5	K31	200	140	--	--
MAY												
17...	1500	.18	11.7	144	8.4	500	23.5	K570	440	620	--	--
JUL												
12...	1445	2.0	7.7	112	8.3	543	34.0	K3	280	240	--	--
SEP												
07...	1115	.09	8.2	98	8.1	568	23.0	K27	640	670	--	--

DATE	BICARBONATE WATER DIS IT FIELD (mg/L as HCO_3) (00453)	CARBONATE WATER DIS IT FIELD (mg/L as CO_3) (00452)	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)	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)	CHLORIDE, DISSOLVED (mg/L as Cl) (00940)
NOV												
10...	280	0	--	--	--	--	240	69.0	15.9	6.0	23.5	17.5
JAN												
12...	279	0	--	--	--	--	--	--	--	--	--	--
MAR												
22...	--	--	200	200	231	6	--	--	--	--	--	--
MAY												
17...	--	--	190	190	226	3	200	58.4	14.3	2.7	24.6	22.3
JUL												
12...	--	--	213	213	260	0	--	--	--	--	--	--
SEP												
07...	--	--	232	232	283	0	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

06896187 MIDDLE FORK GRAND RIVER NEAR GRANT CITY, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	FLUORIDE, DISSOLVED (mg/L as F) (00950)	SULFATE DISSOLVED (mg/L as SO_4) (00945)	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)
NOV												
10...	.2	51.5	.022	.38	<.050	<.010	<.050	<.010	<.050	15	9	329
JAN												
12...	--	--	.032	.44	.171	<.010	<.050	<.010	E.030	--	--	--
MAR												
22...	--	--	<.020	.52	<.050	<.010	E.036	.016	.073	--	--	--
MAY												
17...	.3	40.7	.024	.44	<.050	<.010	<.050	.010	<.050	11	<10	302
JUL												
12...	--	--	<.020	.69	<.050	.012	.073	.058	.149	--	--	--
SEP												
07...	--	--	.077	.49	<.050	<.010	.060	.048	.110	--	--	--

DATE	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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												
10...	E12	213	<8.0	<.1	<10	<10	<100	<1	847	<.3	<20	<31
MAY												
17...	<15	48	<8.0	<.1	<10	E10	<100	<1	1220	<.3	E17	43

E--Laboratory estimated value.

06896320 EAST FORK GRAND RIVER AT ALLENDALE, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 40°28'53", long 94°19'06", in SE $^1/_4$ NE $^1/_4$ sec.32, T.66 N., R.30 W., Worth County, Hydrologic Unit 10280101. Located approximately 1.6 mi west of the junction of Highway NN and State Highway 46 in Allendale on Highway 46.

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

REMARKS--Station was visited in August and September at which time there was no flow; therefore, no samples were collected.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ALKA-LINITY WAT DIS FIX END FIELD $CaCO_3$ (mg/L) (39036)	ALKA-LINITY WAT DIS TOT IT FIELD (mg/L as $CaCO_3$) (39086)
NOV												
12...	1040	.74	10.3	95	8.3	581	10.5	K100	140	270	250	264
JAN												
12...	1415	2.0	14.8	107	8.7	495	.5	K60	K14	K62	236	237
MAR												
22...	1100	4.1	12.5	114	8.4	463	10.5	200	23	240	--	--
MAY												
17...	1015	.25	5.2	60	8.0	503	20.0	210	140	240	--	--
JUL												
12...	1040	9.3	8.1	104	8.4	398	26.5	K110	340	360	--	--

DATE	BICAR-BONATE WATER DIS IT FIELD (mg/L as HCO_3) (00453)	CAR-BONATE WATER DIS IT FIELD (mg/L as CO_3) (00452)	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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)
NOV												
12...	322	0	--	--	--	--	260	76.4	17.7	3.8	16.3	7.8
JAN												
12...	272	8	--	--	--	--	--	--	--	--	--	--
MAR												
22...	--	--	211	214	255	3	--	--	--	--	--	--
MAY												
17...	--	--	241	241	294	0	230	64.2	16.9	3.5	16.8	9.5
JUL												
12...	--	--	181	181	220	1	--	--	--	--	--	--

DATE	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)
NOV												
12...	.3	41.0	.009	.43	<.004	<.001	.061	.027	.092	17	5	349
JAN												
12...	--	--	<.020	.29	<.050	<.010	<.050	<.010	<.050	--	--	--
MAR												
22...	--	--	<.020	.41	<.050	<.010	<.050	<.010	E.048	--	--	--
MAY												
17...	.3	20.6	.030	.63	<.050	<.010	<.050	.014	E.039	17	<10	293
JUL												
12...	--	--	<.020	.93	<.050	<.010	.057	.044	.150	--	--	--

DATE	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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												
12...	<15	94	<8.0	E.1	<10	20	<100	<1	283	<.3	<20	<31
MAY												
17...	<15	129	<8.0	<.1	<10	E10	<100	<1	544	<.3	<20	E17

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.--Estimated daily discharges: Dec. 16 to Jan. 2, Jan. 4-9, 12-15, Jan. 20 to Feb. 9, March 14, 17, 18, 20, Sept. 8-11, and 13-20. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	36	62	46	45	136	52	71	51	601	107	31
2	95	35	59	54	45	177	49	64	95	437	76	30
3	84	36	57	63	42	141	45	61	76	386	62	29
4	75	37	59	59	38	116	42	63	38	399	59	27
5	66	37	70	42	37	115	40	58	41	1410	59	27
6	60	37	73	39	39	108	37	52	38	4570	62	26
7	56	37	73	41	41	94	33	48	32	2390	95	26
8	53	38	71	49	45	83	32	44	27	900	94	24
9	50	39	74	60	49	71	31	46	24	626	92	24
10	47	37	78	73	62	64	29	51	24	407	63	23
11	45	38	77	77	66	58	28	49	22	285	49	32
12	45	38	74	67	67	55	28	45	22	211	42	33
13	43	38	66	50	66	51	27	39	23	183	38	22
14	40	37	61	44	62	48	26	35	32	180	35	20
15	40	38	62	50	59	48	26	33	35	150	34	18
16	43	39	48	64	57	47	25	30	51	124	32	18
17	41	39	40	70	59	48	24	29	57	111	30	18
18	48	39	38	75	82	48	24	29	64	107	29	17
19	53	37	37	72	100	53	33	27	111	111	32	17
20	47	36	36	53	119	58	291	27	91	98	53	20
21	45	38	36	45	109	73	535	27	70	90	126	20
22	41	39	36	42	93	102	240	29	58	88	252	21
23	38	61	36	40	88	92	142	27	56	78	161	27
24	37	78	36	40	126	83	119	25	4590	69	100	32
25	37	130	36	39	155	77	124	23	9380	66	80	143
26	37	116	36	39	166	75	98	29	6610	65	76	384
27	37	94	37	40	175	82	88	51	7250	63	67	289
28	38	83	38	40	170	102	78	155	3090	77	49	166
29	39	73	40	41	148	80	73	126	1410	220	41	108
30	38	66	41	42	---	66	77	106	863	252	37	78
31	37	---	45	42	---	55	---	69	---	153	34	---
MEAN	50.7	50.9	52.6	51.5	83.1	80.8	83.2	50.6	1144	481	69.9	58.3
MAX	118	130	78	77	175	177	535	155	9380	4570	252	384
MIN	37	35	36	39	37	47	24	23	22	63	29	17
MED	45	38	48	46	66	75	41	45	56	180	59	26
IN.	.03	.03	.03	.03	.04	.04	.04	.03	.57	.25	.04	.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2000, BY WATER YEAR (WY)

MEAN	839	874	537	490	983	1727	2004	2017	2330	1629	531	1068
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1921 - 2000	
ANNUAL MEAN	1320		187		1251	
HIGHEST ANNUAL MEAN					5740	1993
LOWEST ANNUAL MEAN					129	1938
HIGHEST DAILY MEAN	27200	Apr 16	9380	Jun 25	85500	Jul 24 1993
LOWEST DAILY MEAN	35	Nov 2	17	Sep 18,19	2.0	Aug 30 1980
ANNUAL SEVEN-DAY MINIMUM	36	Dec 20	18	Sep 14	2.6	Oct 23 1956
INSTANTANEOUS PEAK FLOW	---		12700	Jun 25	89800	Jul 7 1993
INSTANTANEOUS PEAK STAGE	---		18.31	Jun 25	41.50	Jul 7 1993
INSTANTANEOUS LOW FLOW	---		Unknown[a]		2.0	Aug 30 1980
ANNUAL RUNOFF (INCHES)	7.97		1.13		7.55	
10 PERCENT EXCEEDS	3690		155		2540	
50 PERCENT EXCEEDS	287		51		220	
90 PERCENT EXCEEDS	39		28		28	

[a]Occurred during period of estimated record.

06898100 THOMPSON RIVER AT MOUNT MORIAH, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 40°20'11", long 93°46'02", on line between SE $^1/_4$ sec.13 and NE $^1/_4$ sec.24, T.64 N., R.26 W., Harrison County, Hydrologic Unit 10280102, station located approximately 15 mi east of junction Interstate 35 and Highway 136, on Highway 136, 0.7 mi upstream of Panther Creek, 1.5 mi northeast of Mt. Moriah at mile 43.

DRAINAGE AREA.--891 mi^2, including Panther Creek.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ALKA-LINITY WAT DIS FIX END FIELD $CaCO_3$ (mg/L) (39036)	ALKA-LINITY WAT DIS TOT IT FIELD (mg/L as $CaCO_3$) (39086)
NOV												
09...	1445	22	6.8	72	8.3	496	17.0	K7	K120	150	210	206
JAN												
13...	0800	8.6	13.4	93	8.4	516	.0	K4	K7	K40	220	216
MAR												
23...	1110	33	10.9	108	8.2	478	14.0	<2	K9	42	--	--
MAY												
18...	1015	19	9.2	110	8.4	491	22.5	K60	110	150	--	--
JUL												
13...	1030	49	8.1	104	8.3	376	27.0	K3	770	220	--	--
SEP												
06...	1400	10	7.9	101	8.3	437	27.0	K3	140	220	--	--

DATE	BICAR-BONATE WATER DIS IT FIELD (mg/L as HCO_3) (00453)	CAR-BONATE WATER DIS IT FIELD (mg/L as CO_3) (00452)	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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)
NOV												
09...	251	0	--	--	--	--	220	67.1	13.2	6.0	15.3	10.7
JAN												
13...	260	2	--	--	--	--	--	--	--	--	--	--
MAR												
23...	--	--	183	183	223	0	--	--	--	--	--	--
MAY												
18...	--	--	211	211	254	2	220	64.9	14.0	3.3	16.0	11.5
JUL												
13...	--	--	154	154	187	0	--	--	--	--	--	--
SEP												
06...	--	--	171	171	209	0	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

06898100 THOMPSON RIVER AT MOUNT MORIAH, MO--Continued
(Ambient water-quality monitoring network)

DATE	FLUORIDE, DISSOLVED (mg/L as F) (00950)	SULFATE DISSOLVED (mg/L as SO_4) (00945)	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)
NOV												
09...	.2	41.7	<.020	.78	<.050	<.010	<.050	.011	.865	24	527	289
JAN												
13...	--	--	.133	.34	.353	<.010	<.050	<.010	E.037	--	--	--
MAR												
23...	--	--	<.020	.53	<.050	<.010	<.050	<.010	.264	--	--	--
MAY												
18...	.2	37.8	.025	.73	<.050	<.010	<.050	<.010	.141	17	27	296
JUL												
13...	--	--	<.020	.77	<.050	<.010	<.050	.025	.205	--	--	--
SEP												
06...	--	--	<.020	.79	<.050	<.010	E.045	.032	.532	--	--	--

DATE	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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												
09...	E12	7700	<8.0	.3	<10	<10	<100	1	598	<.3	<20	42
MAY												
18...	<15	411	<8.0	<.1	<10	10	<100	1	300	<.3	26	50

E--Laboratory estimated value.

06898800 WELDON RIVER AT PRINCETON, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

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 1.5 mi west of junction of Highway 136 and 65 in the town of Princeton on Highway 136.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ALKA-LINITY WAT DIS FIX END FIELD $CaCO_3$ (mg/L) (39036)	ALKA-LINITY WAT DIS TOT IT FIELD (mg/L as $CaCO_3$) (39086)
NOV 09...	1100	5.3	10.9	120	8.4	490	18.5	300	K160	140	200	204
JAN 11...	1200	10	13.5	103	8.1	505	3.0	K10	K8	K26	210	211
MAR 21...	1300	13	13.0	118	8.2	471	10.0	K6	K8	K32	--	--
MAY 16...	1315	2.4	9.9	129	8.3	498	27.5	K200	K94	70	--	--
JUL 11...	1340	9.4	8.8	120	8.1	489	30.0	K3	80	K33	--	--
SEP 06...	1100	1.8	8.6	111	8.1	488	27.5	K1	83	47	--	--

DATE	BICAR-BONATE WATER DIS IT FIELD (mg/L as HCO_3) (00453)	CAR-BONATE WATER DIS IT FIELD (mg/L as CO_3) (00452)	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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)
NOV 09...	--	--	--	--	--	--	220	65.4	14.2	3.7	16.4	9.5
JAN 11...	257	0	--	--	--	--	--	--	--	--	--	--
MAR 21...	--	--	196	199	243	0	--	--	--	--	--	--
MAY 16...	--	--	205	205	251	0	210	59.1	14.2	2.8	18.7	12.5
JUL 11...	--	--	211	211	257	0	--	--	--	--	--	--
SEP 06...	--	--	203	203	248	0	--	--	--	--	--	--

DATE	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)
NOV 09...	.2	40.8	.004	.29	<.050	<.010	<.050	<.010	.043	11	--	283
JAN 11...	--	--	.071	.28	.098	<.010	<.050	<.010	<.050	--	--	--
MAR 21...	--	--	<.020	.28	<.050	<.010	<.050	<.010	E.031	--	--	--
MAY 16...	.3	41.4	.024	.46	<.050	<.010	<.050	<.010	<.050	11	<10	291
JUL 11...	--	--	<.020	.56	<.050	<.010	<.050	.011	.089	--	--	--
SEP 06...	--	--	<.020	.49	<.050	<.010	<.050	<.010	.066	--	--	--

DATE	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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 09...	10	139	E2.2	<.1	E1	10	<100	<1	1100	<.3	12	2
MAY 16...	<15	94	<8.0	<.1	<10	10	<100	<1	912	<.3	<20	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.--Estimated daily discharges: Dec. 16-29, Jan. 4-8, 12-15, Jan. 20 to Feb. 9. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	38	59	57	30	149	40	51	26	583	74	30
2	83	37	55	61	30	121	40	51	32	468	63	31
3	74	38	53	62	31	105	39	49	31	403	63	30
4	67	40	57	40	34	96	36	45	32	483	93	30
5	61	42	62	30	36	91	32	42	32	636	79	29
6	57	44	58	30	37	77	29	42	26	524	91	28
7	54	43	77	34	38	69	31	41	23	448	77	26
8	51	42	67	52	40	62	36	39	21	373	74	23
9	52	40	62	78	43	54	35	47	21	302	82	23
10	51	41	63	75	49	52	32	52	23	252	61	22
11	49	39	58	60	49	52	30	46	40	215	57	22
12	45	40	56	48	46	50	30	40	75	195	55	26
13	42	40	51	39	48	45	29	35	49	195	53	22
14	40	39	47	38	45	43	29	34	73	169	49	20
15	40	40	50	48	46	44	31	31	70	153	45	20
16	51	40	38	57	42	43	33	28	52	170	45	19
17	67	39	32	58	44	41	31	28	263	165	57	19
18	52	40	32	48	87	44	31	29	246	146	47	19
19	46	38	31	55	90	51	33	27	157	138	50	18
20	43	38	30	36	74	52	186	29	120	132	83	24
21	41	44	30	32	66	55	272	32	90	115	67	27
22	40	45	30	30	63	53	118	28	62	102	49	33
23	42	81	30	29	83	51	75	25	50	95	53	54
24	42	90	31	28	364	52	174	23	10900	92	106	96
25	39	106	32	27	211	53	121	21	3860	93	66	221
26	37	92	33	27	265	51	85	45	7130	84	47	166
27	37	87	34	28	218	50	81	127	3230	79	41	76
28	43	85	37	28	172	45	74	59	1950	556	37	49
29	42	80	43	28	162	39	63	49	1150	318	32	41
30	40	66	52	29	---	36	54	36	775	125	31	37
31	39	---	49	29	---	36	---	28	---	93	30	---
MEAN	50.0	52.5	46.4	42.6	87.7	60.1	64.3	40.6	1020	255	59.9	42.7
MAX	83	106	77	78	364	149	272	127	10900	636	106	221
MIN	37	37	30	27	30	36	29	21	21	79	30	18
IN.	.03	.04	.03	.03	.06	.04	.04	.03	.68	.18	.04	.03

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

MEAN	595	666	482	465	920	1588	1740	1765	1798	1091	521	695
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	890		151		1026	
HIGHEST ANNUAL MEAN					3576	1993
LOWEST ANNUAL MEAN					117	1934
HIGHEST DAILY MEAN	13400	Apr 16	10900	Jun 24	73800	Jun 6 1947
LOWEST DAILY MEAN	30	Dec 20-23	18	Sep 19	1.0	Jun 17 1956
ANNUAL SEVEN-DAY MINIMUM	31	Dec 18	20	Sep 13	1.7	Aug 4 1934
INSTANTANEOUS PEAK FLOW	---		26300	Jun 24	95000	Jun 6 1947
INSTANTANEOUS PEAK STAGE	---		14.13	Jun 24	25.70	Jun 6 1947
INSTANTANEOUS LOW FLOW	---		18[a]	Sep 18,19	1.0	Jun 17 1956
ANNUAL RUNOFF (INCHES)	7.24		1.23		8.35	
10 PERCENT EXCEEDS	2270		165		2350	
50 PERCENT EXCEEDS	255		48		218	
90 PERCENT EXCEEDS	41		29		30	

[a]Minumum recorded, may have been less during estimated record.

06899580 NO CREEK NEAR DUNLAP, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 40°06'19", long 93°29'29", in NE $^1/_4$ NE $^1/_4$ NW $^1/_4$ sec.9, T.61 N., R.23 W., Grundy County, Hydrologic Unit 10280102. Access is on the left bank on upstream side of bridge on county road, approximately 5 mi northeast of Trenton.

DRAINAGE AREA.--34.0 mi^2.

PERIOD OF RECORD.--November 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
OCT											
25...	1420	.01	7.3	61	7.5	698	7.8	K970	K1100	150	282
NOV											
29...	1550	.01	8.1	62	7.7	500	5.2	K2200	K1300	380	219
DEC											
20...	1550	.10	17.0	116	7.4	348	.4	520	540	180	200
JAN											
24...	1535	.10	19.8	143	7.8	825	2.2	K29	K49	K20	291
FEB											
23...	0830	.05	8.7	73	7.4	385	7.5	LA	210	500	155
APR											
20...	1130	.81	7.7	75	8.1	473	12.5	6000	11000	7600	194
MAY											
09...	1230	.17	6.3	67	8.0	567	17.0	K88000	K81000	9800	262
JUN											
14...	1105	6.4	5.4	64	7.7	200	22.0	8000	6800	29000	52
22...	0900	.40	7.5	86	8.1	299	21.0	610	2800	1300	128
JUL											
25...	1630	.11	7.2	91	8.8	277	26.0	1600	2400	750	119

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
OCT											
25...	286	349	0	--	--	--	--	--	--	--	--
NOV											
29...	230	280	0	180	47.5	14.0	8.3	32.9	11.1	.4	21.1
DEC											
20...	202	246	0	--	--	--	--	--	--	--	--
JAN											
24...	296	362	0	270	72.0	23.1	7.7	66.4	16.8	.3	95.1
FEB											
23...	153	187	0	--	--	--	--	--	--	--	--
APR											
20...	194	237	0	--	--	--	--	--	--	--	--
MAY											
09...	259	316	0	190	50.3	15.0	12.6	35.2	13.3	.4	16.9
JUN											
14...	52	64	0	--	--	--	--	--	--	--	--
22...	128	157	0	--	--	--	--	--	--	--	--
JUL											
25...	119	129	8	110	31.8	7.82	6.7	11.4	5.2	.3	17.5

K--Results based on colony count outside the acceptable range (non-ideal colony count).
LA--Laboratory accident.

06899580 NO CREEK NEAR DUNLAP, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
OCT											
25...	3.31	8.5	.088	.018	E.047	<.010	.194	--	--	--	--
NOV											
29...	.529	2.7	<.050	.023	.072	.038	.244	57	73	290	427
DEC											
20...	<.020	1.0	<.050	<.010	.099	<.010	.094	--	--	--	--
JAN											
24...	.087	1.4	.057	<.010	E.035	.014	.115	35	28	506	30
FEB											
23...	<.020	.79	<.050	<.010	E.035	.011	.139	--	--	--	--
APR											
20...	.052	.98	<.050	<.010	E.042	.021	.160	--	--	--	--
MAY											
09...	4.23	6.6	.136	.032	.073	<.010	.297	62	54	330	<15
JUN											
14...	.169	2.2	4.08	.066	.179	.134	.464	--	--	--	--
22...	.131	1.1	.263	.067	E.049	.037	.176	--	--	--	--
JUL											
25...	.043	1.2	.231	.029	.052	.030	.146	26	45	169	76

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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...	1150	E3.5	<.1	<10	470	<100	4	1400	<.3	61	E21
JAN											
24...	287	<8.0	<.1	<10	270	<100	2	1230	<.3	89	32
MAY											
09...	820	<8.0	<.1	<10	20	<100	3	5200	<.3	E12	<31
JUL											
25...	952	<8.0	<.1	<10	E10	<100	2	276	<.3	<20	<31

E--Laboratory estimated value.

06899950 MEDICINE CREEK NEAR HARRIS, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 40°18'32", long 93°20'15", NW 1/4 NW 1/4 NE 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.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
OCT											
26...	0815	2.3	9.79	78	7.5	468	5.5	290	300	--	157
NOV											
30...	0815	3.0	12.3	87	7.3	270	1.6	170	160	210	179
DEC											
21...	0830	.10	17.9	122	7.0	526	.2	K31	K29	K56	191
JAN											
25...	0800	.50	10.6	71	7.0	622	.5	K5	K12	K42	205
FEB											
22...	1425	15	12.6	116	7.7	476	12.0	K17	K12	66	158
MAR											
27...	1305	8.7	10.7	113	7.7	406	18.0	K32	64	120	177
APR											
18...	1110	4.0	11.7	127	7.8	509	18.0	K73	K22	140	184
MAY											
10...	1345	10	9.1	108	8.3	458	22.0	K15	280	270	181
JUN											
21...	0955	6.0	9.9	117	8.2	420	22.0	K10	500	190	161
JUL											
26...	0930	6.6	8.6	100	8.1	433	21.5	K3	450	490	174
SEP											
20...	1020	3.4	8.0	84	7.9	411	16.5	K1900	1100	1900	145

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
OCT											
26...	160	190	0	--	--	--	--	--	--	--	--
NOV											
30...	186	226	0	210	62.9	12.7	2.4	19.0	10.9	.2	60.5
DEC											
21...	193	235	0	--	--	--	--	--	--	--	--
JAN											
25...	209	255	0	250	73.2	15.8	2.3	27.5	18.1	.2	74.2
FEB											
22...	157	192	0	--	--	--	--	--	--	--	--
MAR											
27...	178	217	0	--	--	--	--	--	--	--	--
APR											
18...	184	224	0	--	--	--	--	--	--	--	--
MAY											
10...	181	221	0	200	59.0	13.3	3.7	17.9	9.9	.3	47.9
JUN											
21...	161	196	0	--	--	--	--	--	--	--	--
JUL											
26...	174	212	0	190	54.7	12.3	5.1	13.4	7.7	.2	43.8
SEP											
20...	145	177	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

06899950 MEDICINE CREEK NEAR HARRIS, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
OCT											
26...	.022	.29	<.050	<.010	<.050	<.010	E.045	--	--	--	--
NOV											
30...	.051	.38	<.050	<.010	<.050	<.010	<.050	14	6	296	E12
DEC											
21...	.136	.57	.079	<.010	<.050	<.010	<.050	--	--	--	--
JAN											
25...	.035	.29	<.050	<.010	<.050	<.010	<.050	<10	3	381	E11
FEB											
22...	<.020	.40	<.050	<.010	<.050	<.010	E.042	--	--	--	--
MAR											
27...	<.020	.44	<.050	<.010	E.032	<.010	E.031	--	--	--	--
APR											
18...	.021	.41	<.050	<.010	<.050	<.010	E.032	--	--	--	--
MAY											
10...	<.020	.48	<.050	<.010	<.050	.011	.054	18	<10	278	<15
JUN											
21...	<.020	.67	.200	<.010	<.050	.020	.082	--	--	--	--
JUL											
26...	<.020	.64	<.050	<.010	<.050	.015	.111	17	37	260	E13
SEP											
20...	.089	.48	.058	<.010	<.050	.012	.065	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
30...	111	E3.5	<.1	<10	80	E53	<1	2330	<.3	41	<31
JAN											
25...	49	<8.0	<.1	<10	230	<100	<1	4640	<.3	75	E18
MAY											
10...	141	<8.0	<.1	<10	<10	<100	E1	248	<.3	E10	<31
JUL											
26...	434	<8.0	<.1	<10	<10	<100	E1	405	<.3	<20	E21

E--Laboratory estimated value.

06900100 LITTLE MEDICINE CREEK NEAR HARRIS, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 40°19'02", long 93°22'52", in SE $^1/_4$ SW $^1/_4$ 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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
OCT											
26...	0855	.67	10.4	80	7.5	483	4.5	60	62	68	191
NOV											
30...	0930	.73	13.2	94	7.5	492	2.2	44	K35	84	197
DEC											
21...	1020	.10	12.5	85	7.1	643	.2	K15	K15	50	215
JAN											
25...	0915	.50	8.1	55	7.0	619	.2	<2	<2	K8	229
FEB											
22...	1545	1.8	10.6	100	8.0	403	13.1	K1	K18	40	152
MAR											
27...	1420	1.1	9.1	99	7.6	403	19.1	K18	K23	88	167
APR											
18...	1440	2.0	8.6	108	8.4	500	25.0	540	170	950	183
MAY											
10...	0915	1.4	10.7	119	8.2	477	19.0	1200	860	1100	182
JUN											
21...	1230	1.2	9.4	126	8.4	439	29.0	K10	K210	210	158
JUL											
26...	1415	1.6	8.6	119	8.3	436	31.2	K170	190	240	169
SEP											
20...	1245	1.5	8.3	92	8.2	414	19.0	1100	1000	K2300	161

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
OCT											
26...	195	238	0	--	--	--	--	--	--	--	--
NOV											
30...	202	246	0	210	63.4	12.9	2.2	19.2	7.2	.2	55.2
DEC											
21...	219	267	0	--	--	--	--	--	--	--	--
JAN											
25...	235	287	0	270	79.5	16.5	2.4	21.0	9.6	.2	71.7
FEB											
22...	152	186	0	--	--	--	--	--	--	--	--
MAR											
27...	166	203	0	--	--	--	--	--	--	--	--
APR											
18...	183	220	1	--	--	--	--	--	--	--	--
MAY											
10...	182	222	0	210	61.6	13.4	3.7	17.6	10.5	.3	55.4
JUN											
21...	158	193	1	--	--	--	--	--	--	--	--
JUL											
26...	169	206	0	190	58.0	12.0	7.0	14.3	7.4	.1	44.5
SEP											
20...	161	196	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

06900100 LITTLE MEDICINE CREEK NEAR HARRIS, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
OCT											
26...	<.020	.20	<.050	<.010	E.032	.014	E.032	--	--	--	--
NOV											
30...	.079	.34	<.050	<.010	<.050	<.010	<.050	16	1	306	E10
DEC											
21...	.162	.71	.105	<.010	E.048	<.010	.055	--	--	--	--
JAN											
25...	.027	.23	<.050	<.010	<.050	<.010	<.050	10	4	386	<15
FEB											
22...	<.020	.48	<.050	<.010	<.050	<.010	E.035	--	--	--	--
MAR											
27...	<.020	.40	<.050	<.010	E.034	.011	<.050	--	--	--	--
APR											
18...	<.020	.34	<.050	<.010	<.050	<.010	E.035	--	--	--	--
MAY											
10...	<.020	.39	<.050	<.010	<.050	<.010	E.031	14	<10	290	<15
JUN											
21...	<.020	.60	.868	.017	<.050	.020	.071	--	--	--	--
JUL											
26...	<.020	.46	<.050	<.010	E.046	.038	.071	12	<10	260	41
SEP											
20...	<.020	.35	<.050	<.010	<.050	.018	.053	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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)
OCT											
26...	--	--	--	--	--	--	--	--	--	--	--
NOV											
30...	E23	E3.5	<.1	<10	200	<100	<1	1650	<.3	121	<31
DEC											
21...	--	--	--	--	--	--	--	--	--	--	--
JAN											
25...	E16	E3.1	<.1	<10	450	<100	<1	3790	<.3	E20	<31
FEB											
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
27...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	--	--	--	--	--	--	--	--	--	--	--
MAY											
10...	78	<8.0	<.1	<10	<10	<100	<1	510	<.3	E14	<31
JUN											
21...	--	--	--	--	--	--	--	--	--	--	--
JUL											
26...	77	<8.0	<.1	<10	E10	<100	<1	181	<.3	<20	<31
SEP											
20...	--	--	--	--	--	--	--	--	--	--	--

E--Laboratory estimated value.

06900900 LOCUST CREEK NEAR UNIONVILLE, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 40°28'23", long 93°07'37", in NW 1/4 SE 1/4 SW 1/4 sec.27, T.65 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, south of Unionville.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
OCT											
25...	1615	.19	9.9	95	7.9	485	13.1	360	660	220	211
NOV											
30...	1115	.46	12.9	92	7.6	483	2.0	100	100	220	199
DEC											
20...	1250	.10	12.2	83	7.1	526	.4	56	60	180	176
JAN											
25...	1130	.10	13.2	90	7.2	699	.2	K8	K32	K28	266
FEB											
23...	1025	14	10.9	93	7.5	395	7.8	K1	240	520	127
MAR											
28...	0920	2.3	12.0	101	7.9	517	7.7	K10	K88	140	206
APR											
19...	1112	1.3	9.8	107	8.2	570	17.5	340	480	290	221
MAY											
11...	0930	2.0	9.2	110	8.2	517	22.0	K100	390	460	207
JUN											
15...	1215	30	7.2	87	8.0	342	23.0	K3200	K3300	7000	104
JUL											
27...	0930	.94	8.5	102	8.1	422	23.5	K40	280	450	179
SEP											
19...	1215	.04	7.8	86	8.1	449	18.0	140	110	250	193

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
OCT											
25...	212	258	0	--	--	--	--	--	--	--	--
NOV											
30...	204	249	0	210	60.6	14.4	5.3	17.5	10.3	.3	33.5
DEC											
20...	189	230	0	--	--	--	--	--	--	--	--
JAN											
25...	272	331	0	310	90.0	20.3	3.9	25.5	14.1	.2	70.5
FEB											
23...	130	158	0	--	--	--	--	--	--	--	--
MAR											
28...	207	253	0	--	--	--	--	--	--	--	--
APR											
19...	221	270	0	--	--	--	--	--	--	--	--
MAY											
11...	210	257	0	--	.03	<.01	<.2	E.1	<.3	<.1	<.3
JUN											
15...	104	126	0	--	--	--	--	--	--	--	--
JUL											
27...	179	218	0	180	52.8	11.9	5.5	14.1	7.6	<.1	30.0
SEP											
19...	193	235	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

06900900 LOCUST CREEK NEAR UNIONVILLE, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
OCT 25...	<.020	.48	<.050	<.010	.052	.033	.080	--	--	--	--
NOV 30...	.023	.67	<.050	<.010	<.050	.016	<.050	29	4	--	100
DEC 20...	.135	.76	.205	<.010	<.050	<.010	E.036	--	--	--	--
JAN 25...	.022	.36	<.050	<.010	<.050	<.010	<.050	14	8	433	<15
FEB 23...	<.020	.64	.306	.019	E.039	<.010	.084	--	--	--	--
MAR 28...	<.020	.43	<.050	<.010	<.050	<.010	<.050	--	--	--	--
APR 19...	.020	.27	<.050	<.010	<.050	<.010	<.050	--	--	--	--
MAY 11...	.022	.67	<.050	<.010	E.040	<.010	E.049	<10	<10	<10	<15
JUN 15...	.134	1.9	5.93	.239	.065	.049	.290	--	--	--	--
JUL 27...	.047	.53	.072	<.010	<.050	<.010	.058	13	20	245	25
SEP 19...	.034	.51	<.050	<.010	<.050	.019	.055	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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 30...	152	<8.0	<.1	<10	250	<100	<1	1760	<.3	88	<31
JAN 25...	30	<8.0	<.1	<10	130	<100	<1	3450	<.3	22	E18
MAY 11...	E17	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
JUL 27...	289	<8.0	<.1	<10	<10	<100	E1	481	<.3	<20	<31

E--Laboratory estimated value.

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.--Estimated daily discharges: Jan 17-20, 25, and 26. 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 July 9, 1909, reached a stage of 36.7 ft, from floodmark.

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	623	126	221	194	123	967	348	304	309	2550	558	169
2	449	119	198	187	127	1050	321	308	238	1570	453	152
3	347	123	185	193	125	850	301	268	213	1360	381	149
4	287	117	180	198	122	980	281	256	240	1230	332	148
5	254	118	217	170	122	816	281	235	198	1540	401	122
6	230	121	346	160	131	659	259	220	180	5920	371	118
7	207	125	372	164	148	565	239	208	158	6420	365	117
8	188	132	339	160	154	488	215	195	142	3600	404	110
9	178	134	360	182	162	386	223	176	145	1870	425	121
10	171	127	581	202	159	342	212	201	131	1180	436	126
11	170	121	502	215	166	305	212	215	126	902	382	116
12	177	125	403	209	165	286	215	201	250	752	317	129
13	164	128	337	196	168	242	204	191	1420	659	261	132
14	142	128	305	171	173	238	223	232	892	584	236	150
15	140	126	273	157	174	250	221	317	1570	554	222	126
16	138	124	241	153	167	662	199	209	1630	522	215	100
17	134	126	219	150	164	1200	183	164	956	832	201	89
18	140	133	206	148	370	796	188	151	584	1370	181	88
19	154	127	199	144	1290	603	204	113	553	857	187	83
20	152	122	198	140	992	598	190	113	501	688	262	89
21	162	127	157	137	668	704	322	111	771	568	663	104
22	150	126	150	147	507	608	1060	111	1440	485	794	116
23	138	173	151	156	424	580	916	109	1050	418	603	137
24	132	225	153	134	550	536	672	105	2580	379	491	225
25	130	256	147	126	921	480	526	96	29500	354	707	1070
26	130	313	160	117	1210	447	502	108	20500	331	649	1840
27	131	368	163	106	1050	623	440	197	19100	318	418	2030
28	129	323	149	129	1060	858	387	1220	9300	320	295	1050
29	130	274	174	129	812	717	368	996	4950	739	239	686
30	128	240	173	134	---	535	347	602	3310	1120	205	491
31	127	---	187	111	---	429	---	450	---	734	183	---
MEAN	191	164	247	159	428	606	342	270	3431	1314	382	339
MAX	623	368	581	215	1290	1200	1060	1220	29500	6420	794	2030
MIN	127	117	147	106	122	238	183	96	126	318	181	83
IN.	.03	.03	.04	.03	.07	.10	.06	.05	.56	.22	.06	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2000, BY WATER YEAR (WY)

MEAN	2753	2979	2070	1960	3722	6015	7138	6475	7297	4692	1732	3102
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1925 - 2000	
ANNUAL MEAN	4078		653		4154	
HIGHEST ANNUAL MEAN					17390	1993
LOWEST ANNUAL MEAN					367	1934
HIGHEST DAILY MEAN	48000	Apr 18	29500	Jun 25	166000	Jun 8 1947
LOWEST DAILY MEAN	117	Nov 4	83	Sep 19	10	Aug 12 1934
ANNUAL SEVEN-DAY MINIMUM	121	Nov 1	96	Sep 16	12	Aug 7 1934
INSTANTANEOUS PEAK FLOW	---		35300	Jun 25	180000	Jun 8 1947
INSTANTANEOUS PEAK STAGE	---		30.43	Jun 25	42.52	Jul 10 1993
INSTANTANEOUS LOW FLOW	---		83	Sep 19	10	Aug 12 1934
ANNUAL RUNOFF (INCHES)	8.05		1.29		8.20	
10 PERCENT EXCEEDS	9560		1010		10200	
50 PERCENT EXCEEDS	998		221		988	
90 PERCENT EXCEEDS	145		125		130	

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 since October 1993.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
OCT												
26...	0835	130	9.5	83	7.4	484	9.5	K17	K8	K25	202	204
NOV												
30...	0820	240	11.3	87	7.5	491	5.1	33	24	20	182	182
DEC												
21...	1410	157	14.0	96	7.2	516	.3	28	40	20	184	188
JAN												
04...	0845	198	13.0	93	7.4	387	1.6	LA	56	32	189	194
FEB												
01...	1300	123	13.5	93	7.6	553	.5	K1	K3	K3	242	242
MAR												
07...	0900	565	8.7	82	7.2	425	12.5	K65	K100	K72	146	152
APR												
03...	1350	301	11.7	108	7.9	486	12.3	LA	33	27	186	189
MAY												
02...	0825	308	8.1	86	7.8	469	18.3	K20	24	29	167	169
JUN												
12...	1510	217	5.4	65	7.9	446	25.0	90	80	130	173	174
JUL												
11...	0830	924	5.5	73	7.6	279	30.1	300	360	140	111	111
AUG												
02...	0800	465	4.4	56	7.9	346	27.1	60	74	64	152	153
SEP												
12...	1450	129	6.6	83	7.9	482	26.5	K75	58	180	198	200

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)
OCT												
26...	249	0	--	--	--	--	--	--	--	--	<.020	.50
NOV												
30...	222	0	200	60.2	12.1	4.2	20.3	18.4	.2	43.5	<.020	<.10
DEC												
21...	230	0	--	--	--	--	--	--	--	--	.058	.44
JAN												
04...	237	0	240	72.9	13.6	2.8	18.2	14.9	.2	39.8	.044	.37
FEB												
01...	296	0	--	--	--	--	--	--	--	--	.043	.33
MAR												
07...	185	0	--	--	--	--	--	--	--	--	.023	1.3
APR												
03...	230	0	--	--	--	--	--	--	--	--	<.020	.70
MAY												
02...	206	0	200	59.1	12.2	4.1	18.5	16.0	.4	41.6	<.020	.68
JUN												
12...	213	0	--	--	--	--	--	--	--	--	<.020	.84
JUL												
11...	135	0	130	41.5	7.03	4.6	7.5	6.6	.2	20.0	<.020	1.0
AUG												
02...	186	0	--	--	--	--	--	--	--	--	<.020	.72
SEP												
12...	244	0	--	--	--	--	--	--	--	--	<.020	.70

K--Results based on colony count outside the acceptable range (non-ideal colony count).
LA--Laboratory accident.

06902000 GRAND RIVER NEAR SUMNER, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L) (00340)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (UG/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT												
26...	<.050	<.010	E.032	<.010	.102	--	--	--	--	--	--	--
NOV												
30...	<.050	<.010	<.050	<.010	<.050	17	10	308	E13	222	<8.0	<.1
DEC												
21...	.392	<.010	.056	<.010	.060	--	--	--	--	--	--	--
JAN												
04...	.377	<.010	<.050	<.010	.072	24	16	283	E12	266	<8.0	<.1
FEB												
01...	.279	.010	<.050	<.010	.054	--	--	--	--	--	--	--
MAR												
07...	.437	.013	E.033	.021	.271	--	--	--	--	--	--	--
APR												
03...	.131	<.010	<.050	<.010	.186	--	--	--	--	--	--	--
MAY												
02...	<.050	<.010	<.050	<.010	.219	23	95	282	19	1160	<8.0	E.1
JUN												
12...	<.050	<.010	E.033	.019	.220	--	--	--	--	--	--	--
JUL												
11...	.262	.014	.122	.104	.323	25	180	185	129	2510	<8.0	E.1
AUG												
02...	<.050	<.010	.064	.054	.234	--	--	--	--	--	--	--
SEP												
12...	<.050	<.010	E.033	.024	.224	--	--	--	--	--	--	--

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)
NOV											
30...	<10	70	<100	<1	381	<.3	41	<31	<.003	<.002	<.002
JAN											
04...	<10	70	<100	1	1130	<.3	E11	<31	--	--	--
MAR											
07...	--	--	--	--	--	--	--	--	<.003	<.002	<.002
APR											
03...	--	--	--	--	--	--	--	--	<.003	<.002	<.002
MAY											
02...	<10	60	<100	2	306	<.3	28	<31	<.003	.293	.010
JUN											
12...	--	--	--	--	--	--	--	--	<.003	.172	.010
JUL											
11...	<10	140	<100	12	13	<.3	43	E17	--	--	--

E--Laboratory estimated value.

06902000 GRAND RIVER NEAR SUMNER, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	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 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)
NOV											
30...	.093	<.001	<.002	<.002	<.003	<.003	<.004	.006	<.002	E.023	<.002
MAR											
07...	.102	<.001	<.002	<.002	<.003	<.003	<.004	<.010	<.002	E.017	<.002
APR											
03...	.072	<.001	<.002	<.002	<.003	<.003	<.004	<.010	<.002	E.011	<.002
MAY											
02...	4.13	<.001	<.002	<.002	<.003	<.003	<.004	<.010	<.002	E.150	<.002
JUN											
12...	4.52	<.001	<.002	<.002	<.003	<.003	<.004	.028	<.002	E.460	<.002

DATE	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)	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)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)
NOV											
30...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.026	<.004
MAR											
07...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.114	<.004
APR											
03...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.039	<.004
MAY											
02...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	1.22	.010
JUN											
12...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.664	<.004

E--Laboratory estimated value.

06902000 GRAND RIVER NEAR SUMNER, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	MOLINATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	PARATHION, DISSOLVED (µg/L) (39542)	METHYL PARATHION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	PEBULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDIMETHALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PROMETON, WATER, DISS, REC (µg/L) (04037)	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)
NOV											
30...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
MAR											
07...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
APR											
03...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
MAY											
02...	<.004	<.003	<.004	<.020	<.004	<.004	<.002	E.013	<.007	<.004	<.013
JUN											
12...	<.004	<.003	<.004	<.030	<.004	<.004	<.002	E.010	<.007	<.004	<.013

DATE	PRONAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	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)	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)	ALPHA BHC DISSOLVED (µg/L) (34253)	PERMETHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	P,P' DDE DISSOLV (µg/L) (34653)
NOV											
30...	<.003	<.010	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
MAR											
07...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
APR											
03...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
MAY											
02...	<.003	.093	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
JUN											
12...	<.003	.207	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006

E--Laboratory estimated value.

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.--Estimated daily discharges: Dec. 1, 2, 16-18, 20-30, Jan. 4-7, 11-16, Jan. 18 to Feb. 9, Feb. 11, 12, and July 31 to Aug. 2. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	24	45	42	31	82	37	33	29	92	45	32
2	35	24	43	42	33	75	39	32	28	71	44	32
3	35	24	44	43	34	69	41	31	28	100	42	30
4	34	25	47	42	34	56	39	31	38	154	42	28
5	42	26	56	42	37	54	40	30	62	551	41	28
6	40	26	62	41	38	52	38	28	101	1620	41	28
7	36	26	68	40	41	52	39	28	72	863	41	29
8	32	26	62	44	45	49	43	28	54	324	49	28
9	30	30	58	42	50	42	43	34	42	184	145	29
10	24	29	65	45	46	43	40	39	34	115	101	29
11	21	29	69	40	45	43	38	52	32	92	60	31
12	20	35	60	36	45	41	40	44	196	114	48	33
13	22	30	55	35	42	39	41	37	860	135	47	32
14	23	29	50	36	42	40	40	32	503	101	54	30
15	22	28	51	37	44	42	40	29	747	71	53	29
16	28	27	48	43	42	43	39	29	317	62	44	30
17	37	27	48	39	40	40	39	29	143	54	40	28
18	61	33	47	35	46	40	38	28	80	55	38	27
19	38	29	47	32	51	43	39	26	58	430	37	27
20	29	28	45	30	57	50	54	25	50	391	37	30
21	26	28	47	28	57	51	61	25	46	182	36	32
22	26	31	43	29	65	47	75	25	42	103	36	39
23	27	51	43	31	109	45	65	25	39	72	42	47
24	30	107	44	30	149	46	56	25	55	60	41	163
25	27	139	43	31	286	44	49	24	482	55	42	113
26	27	85	45	31	224	44	43	24	1540	52	39	189
27	24	63	44	29	152	42	41	35	1640	49	36	137
28	24	56	43	30	119	42	41	77	562	47	34	71
29	25	53	43	30	91	41	43	53	243	46	33	50
30	24	53	45	30	---	40	38	37	138	45	33	40
31	24	---	49	31	---	39	---	32	---	49	31	---
MEAN	30.2	40.7	50.3	36.0	72.2	47.6	44.0	33.1	275	204	46.8	49.0
MAX	61	139	69	45	286	82	75	77	1640	1620	145	189
MIN	20	24	43	28	31	39	37	24	28	45	31	27
IN.	.04	.05	.07	.05	.09	.06	.06	.04	.36	.27	.06	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000, BY WATER YEAR (WY)

MEAN	445	484	620	361	539	848	847	909	840	1033	651	503
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1974 - 2000	
ANNUAL MEAN	607		77.2		675	
HIGHEST ANNUAL MEAN					1838	1993
LOWEST ANNUAL MEAN					69.3	1989
HIGHEST DAILY MEAN	3360	Apr 16	1640	Jun 27	8960	Jul 18 1982
LOWEST DAILY MEAN	20	Oct 12	20	Oct 12	13	Jan 11 1977
ANNUAL SEVEN-DAY MINIMUM	23	Oct 10	23	Oct 10	13	Jan 11 1977
INSTANTANEOUS PEAK FLOW	---		2100	Jun 26	9200	Jul 18 1982
INSTANTANEOUS PEAK STAGE	---		12.45	Jun 26	28.33	Jul 18 1982
INSTANTANEOUS LOW FLOW	---		14[a]	Feb 17	13	Jan 11 1977
ANNUAL RUNOFF (INCHES)	9.54		1.22		10.61	
10 PERCENT EXCEEDS	1220		108		1600	
50 PERCENT EXCEEDS	540		42		398	
90 PERCENT EXCEEDS	28		28		33	

[a]Minimum recorded, may have been less during period of estimated record.

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.--Estimated daily discharges: Dec. 16-30, Jan. 5-10, 12-16, and Jan. 19 to Feb. 8. Records good 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	34	58	66	48	163	47	45	35	142	50	31
2	60	33	56	66	50	151	47	41	44	101	50	31
3	57	34	56	68	53	127	49	38	30	245	48	31
4	59	34	56	54	53	106	48	37	95	226	46	30
5	54	35	76	54	53	92	48	35	103	609	44	29
6	57	44	85	52	54	83	46	33	114	1640	43	29
7	53	79	88	50	55	80	47	32	107	1470	42	29
8	49	79	96	54	55	75	51	32	75	501	212	29
9	45	79	87	62	56	69	54	41	53	261	261	29
10	41	81	88	64	61	64	51	55	40	157	229	30
11	36	80	109	64	57	63	53	54	37	105	107	30
12	34	81	105	60	55	60	50	64	112	102	71	37
13	33	57	91	56	63	57	50	49	966	115	63	35
14	34	42	79	53	57	56	49	41	874	129	91	35
15	34	40	75	56	54	62	48	35	1170	84	83	31
16	38	40	58	64	57	63	48	32	568	67	60	30
17	39	39	55	62	57	60	48	32	256	57	49	31
18	52	39	53	58	81	58	46	32	139	52	44	29
19	62	42	53	52	73	65	45	29	92	232	43	29
20	48	39	54	31	70	71	76	28	90	669	45	35
21	41	40	56	30	88	77	129	28	85	266	41	36
22	39	40	56	33	104	74	117	28	57	139	40	36
23	38	61	54	35	144	67	105	27	50	88	49	49
24	39	86	54	41	205	62	85	26	155	68	58	122
25	41	160	52	43	340	59	71	25	359	59	51	191
26	39	127	52	43	342	58	61	29	2110	54	45	198
27	38	88	53	43	235	57	58	36	2810	49	39	230
28	36	70	54	43	192	53	58	121	1020	47	37	135
29	35	62	58	43	150	54	54	121	419	47	34	80
30	35	59	64	44	---	51	53	65	221	48	34	60
31	36	---	65	46	---	50	---	43	---	49	33	---
MEAN	44.6	60.8	67.6	51.3	102	73.8	59.7	43.0	410	254	69.1	58.6
MAX	80	160	109	68	342	163	129	121	2810	1640	261	230
MIN	33	33	52	30	48	50	45	25	30	47	33	29
IN.	.04	.05	.06	.04	.08	.06	.05	.04	.33	.21	.06	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2000[a], BY WATER YEAR (WY)

MEAN	797	758	906	589	949	1539	1596	1806	1273	1523	807	771
MAX	3352	2403	3318	2686	2487	4105	5302	5447	3462	9877	2770	3232
(WY)	1974	1993	1983	1993	1983	1993	1973	1995	1990	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1970 - 2000[a]	
ANNUAL MEAN	973		107		1111	
HIGHEST ANNUAL MEAN					3299	1993
LOWEST ANNUAL MEAN					107	2000
HIGHEST DAILY MEAN	11000	May 17	2810	Jun 27	20800	May 27 1996
LOWEST DAILY MEAN	27	Sep 25	25	May 25	11	Aug 1 1970
ANNUAL SEVEN-DAY MINIMUM	30	Sep 20	27	May 19	12	Jul 26 1970
INSTANTANEOUS PEAK FLOW	---		3660	Jun 26	22000	May 27 1996
INSTANTANEOUS PEAK STAGE	---		7.70	Jun 26	25.71	Jul 24 1993
INSTANTANEOUS LOW FLOW	---		24	May 25,26	11	Aug 1 1970,Jan 1 1995
ANNUAL RUNOFF (INCHES)	9.64		1.07		11.02	
10 PERCENT EXCEEDS	1780		152		2350	
50 PERCENT EXCEEDS	744		54		571	
90 PERCENT EXCEEDS	40		33		41	

[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.--Estimated daily discharges: Dec. 17-30, Jan. 5-13, and Jan. 17 to Feb. 5. Water-discharge records fair from October to May and good from June to September, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	272	45	79	69	66	370	70	68	125	361	104	61
2	206	42	72	78	68	385	73	70	81	258	70	57
3	168	39	73	90	68	330	72	59	64	237	68	53
4	129	39	81	100	68	295	64	51	67	222	75	52
5	108	40	113	64	65	251	66	46	97	369	65	50
6	99	41	119	55	66	193	64	43	229	378	62	47
7	88	42	130	52	57	157	63	44	219	1410	132	44
8	89	44	127	57	47	138	66	45	207	1550	219	43
9	86	88	146	68	56	119	68	63	195	667	627	43
10	82	103	173	68	54	107	66	66	141	378	472	42
11	72	101	154	68	62	96	68	76	118	258	335	42
12	63	106	127	66	66	86	73	90	99	202	206	49
13	56	107	148	64	64	83	70	88	80	158	133	46
14	51	105	148	55	56	86	61	98	691	149	106	44
15	48	85	135	51	67	86	58	75	1130	154	89	45
16	47	56	118	64	59	184	67	53	1260	158	106	42
17	50	46	95	70	54	331	65	45	784	151	100	40
18	52	44	76	64	171	172	63	40	426	122	77	37
19	52	44	72	60	259	127	60	36	259	120	71	35
20	57	43	68	54	233	149	70	35	297	101	117	44
21	87	48	70	47	137	163	62	36	556	494	83	52
22	73	47	70	42	102	133	107	34	241	402	65	45
23	59	56	75	33	110	127	173	31	165	238	69	55
24	51	62	75	34	183	117	167	29	559	165	2110	59
25	50	73	73	42	343	108	144	25	504	126	612	101
26	49	107	70	50	515	93	111	47	1010	104	247	172
27	53	206	70	58	564	92	99	233	2320	93	152	190
28	52	175	70	59	413	87	90	114	2660	98	107	231
29	49	126	70	61	320	81	80	71	1190	99	84	203
30	45	93	77	64	---	73	73	152	587	84	74	145
31	47	---	74	66	---	72	---	202	---	85	67	---
MEAN	80.3	75.1	98.3	60.4	151	158	81.1	69.8	545	303	223	72.3
MAX	272	206	173	100	564	385	173	233	2660	1550	2110	231
MIN	45	39	68	33	47	72	58	25	64	84	62	35
IN.	.05	.04	.06	.04	.09	.10	.05	.04	.33	.19	.14	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000, BY WATER YEAR (WY)

MEAN	750	833	761	734	1118	1896	2074	2060	1989	1441	729	731
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1929 - 2000	
ANNUAL MEAN	1241		159		1258	
HIGHEST ANNUAL MEAN					4320	1993
LOWEST ANNUAL MEAN					159	2000
HIGHEST DAILY MEAN	13000	May 18	2660	Jun 28	31800	May 28 1996
LOWEST DAILY MEAN	26	Sep 26	25	May 25	4.6	Aug 7 1934
ANNUAL SEVEN-DAY MINIMUM	36	Sep 21	32	May 19	4.8	Aug 4 1934
INSTANTANEOUS PEAK FLOW	---		3420	Aug 24	33600	May 27 1996
INSTANTANEOUS PEAK STAGE	---		7.54	Aug 24	22.33	May 27 1996
INSTANTANEOUS LOW FLOW	---		23[a]	May 25,26	4.6	Aug 7 1934
ANNUAL RUNOFF (INCHES)	9.01		1.16		9.14	
10 PERCENT EXCEEDS	2290		304		3160	
50 PERCENT EXCEEDS	871		77		365	
90 PERCENT EXCEEDS	56		45		39	

[a]Minimum recorded, may have been less during period of estimated record.

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 from January 1978 to September 1986 and an ambient water-quality monitoring network station from November 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
29...	1515	75	12.0	99	7.8	430	7.8	K8	K7	22	151
JAN											
04...	1145	75	14.8	105	7.6	308	1.5	--	K8	66	131
MAR											
06...	1230	191	11.6	117	7.8	501	15.7	<1	<1	42	136
MAY											
01...	1400	55	9.8	113	8.1	524	22.8	K15	K13	22	161
JUL											
10...	1430	344	6.8	94	7.7	245	32.1	K200	560	130	85
SEP											
13...	0850	33	8.2	89	7.7	398	19.4	73	100	K120	145

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
29...	154	188	0	180	53.1	12.5	4.3	13.2	8.4	.2	64.0
JAN											
04...	134	163	0	--	--	--	--	--	--	--	--
MAR											
06...	137	168	0	--	--	--	--	--	--	--	--
MAY											
01...	160	195	0	220	62.5	15.1	4.0	18.9	13.1	.3	79.5
JUL											
10...	84	103	0	--	--	--	--	--	--	--	--
SEP											
13...	148	180	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV											
29...	<.020	.49	<.050	<.010	<.050	<.010	<.050	19	2	266	20
JAN											
04...	<.020	.36	.137	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
06...	<.020	.63	.229	<.010	<.050	<.010	.059	--	--	--	--
MAY											
01...	<.020	.68	<.050	<.010	<.050	<.010	.123	45	20	309	24
JUL											
10...	<.020	1.1	.369	.019	.109	.076	.272	--	--	--	--
SEP											
13...	<.020	.72	<.050	<.010	<.050	<.010	.093	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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...	114	<8.0	<.1	<10	50	<100	<1	112	<.3	E13	<31
MAY											
01...	296	<8.0	<.1	<10	30	<100	E1	109	<.3	<20	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

06905725 MUSSEL FORK NEAR MYSTIC, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 40°09'38", long 92°53'25", in SE $^1/_4$ SW $^1/_4$ NW $^1/_4$ sec.23, T.62 N., R.18 W., Sullivan County, Hydrologic Unit 10280202. Access is on the left bank on upstream side of bridge on County Highway H, approximately 8 mi south of Green City on State Highway 6.

DRAINAGE AREA.--24.0 mi^2.

PERIOD OF RECORD.--November 1997 to current year.

REMARKS.--Station was visited in February, March, August and September at which time the was no flow; therefore, no sample was collected.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
OCT											
25...	1241	.01	7.3	65	7.2	615	10.6	92	240	130	181
NOV											
30...	1350	.01	13.1	97	7.6	460	3.5	220	180	170	176
DEC											
20...	1435	.10	18.3	123	7.2	546	.5	140	150	100	176
JAN											
24...	1300	.10	19.0	140	7.5	749	2.8	K4	K4	K11	216
APR											
20...	0840	.16	9.3	92	7.8	543	13.0	1400	800	2200	170
MAY											
11...	1400	.07	11.7	155	8.3	644	27.0	K50	K58	K79	193
JUN											
14...	1445	8.3	4.9	60	8.0	240	23.5	5200	8600	2200	84
15...	0900	7.3	5.4	62	7.8	218	20.0	K340	K3000	3500	80
20...	1205	.22	6.3	77	7.9	365	24.0	K100	700	1500	125
JUL											
27...	1415	<.01	11.8	152	8.1	482	27.0	K3	K3	K20	183

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
OCT											
25...	188	229	0	--	--	--	--	--	--	--	--
NOV											
30...	180	220	0	180	49.8	13.3	6.3	24.3	15.5	.3	36.0
DEC											
20...	178	217	0	--	--	--	--	--	--	--	--
JAN											
24...	219	267	0	250	72.1	17.7	7.7	39.2	42.7	.3	55.4
APR											
20...	170	207	0	--	--	--	--	--	--	--	--
MAY											
11...	189	230	0	220	60.6	16.6	6.7	46.2	77.2	.3	20.4
JUN											
14...	84	102	0	--	--	--	--	--	--	--	--
15...	80	98	0	--	--	--	--	--	--	--	--
20...	125	152	0	--	--	--	--	--	--	--	--
JUL											
27...	183	223	0	190	53.2	14.2	6.9	22.1	21.6	.2	31.6

K--Results based on colony count outside the acceptable range (non-ideal colony count).

06905725 MUSSEL FORK NEAR MYSTIC, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
OCT											
25...	<.020	.70	<.050	<.010	E.040	<.010	.065	--	--	--	--
NOV											
30...	<.020	.98	<.050	<.010	<.050	.026	.051	41	11	280	411
DEC											
20...	<.020	.90	<.050	<.010	<.050	<.010	<.050	--	--	--	--
JAN											
24...	<.020	1.2	<.050	<.010	<.050	<.010	.051	46	24	406	E14
APR											
20...	<.020	.84	<.050	<.010	<.050	<.010	.073	--	--	--	--
MAY											
11...	<.020	1.4	<.050	<.010	E.047	<.010	.066	41	<10	383	<15
JUN											
14...	.660	3.0	.312	.090	<.050	.022	.437	--	--	--	--
15...	.450	2.1	.607	.086	E.034	.019	.253	--	--	--	--
20...	.567	1.7	.222	.114	<.050	<.010	.114	--	--	--	--
JUL											
27...	.024	.89	<.050	<.010	<.050	<.010	E.037	25	10	280	38

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
30...	289	<8.0	<.1	<10	610	<100	<1	447	<.3	79	E16
JAN											
24...	74	<8.0	<.1	<10	280	<100	2	1130	<.3	108	E27
MAY											
11...	146	<8.0	<.1	<10	400	<100	E1	999	<.3	<20	<31
JUL											
27...	73	<8.0	<.1	<10	40	<100	<1	1450	<.3	<20	E17

E--Laboratory estimated value.

06906150 LONG BRANCH CREEK NEAR ATLANTA, MO

LOCATION.--Lat 39°53'51", long 92°29'34", in SE $^1/_4$ NW $^1/_4$ NW $^1/_4$ sec.20, T.59 N., R.14 W., 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.--Estimated daily discharges: Dec. 15-23, Jan. 28-31, Feb. 21-29, March 9-27, May 13-18, June 16-23, and June 29 to July 10. 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	2.0	.25	.50	.13	.00	3.8	.74	.58	.31	.70	.14	.17
2	.97	.18	.48	.14	.00	10	.65	.50	.29	.52	.12	.07
3	.74	.30	.47	.17	.00	6.8	.51	.49	.21	.88	.14	.02
4	.63	.46	.52	.17	.00	5.3	.43	.51	1.1	2.2	.10	.00
5	.42	.49	.53	.13	.00	4.6	.42	.52	5.8	1.7	.07	.00
6	.38	.50	.46	.30	.00	3.5	.37	.47	5.2	.95	.07	.00
7	.28	.49	.46	.27	.00	2.6	.39	.29	2.0	.70	.05	.00
8	.32	.48	.47	.17	.00	1.5	.36	.25	1.1	.52	8.6	.00
9	.27	.49	.77	.18	.01	.79	.37	.56	.91	.39	14	.00
10	.25	.59	.56	.15	.02	.52	.37	.32	.82	.39	3.4	.00
11	.27	.48	.42	.12	.01	.34	.36	.37	.75	.39	.98	.00
12	.33	.43	.40	.12	.03	.46	.32	.34	.78	.30	.45	.00
13	.23	.42	.39	.13	.07	.39	.28	.34	.75	.28	.20	.00
14	.12	.42	.37	.11	.03	.34	.27	.34	21	.22	.11	.00
15	.10	.41	.34	.14	.05	.34	.24	.27	36	.20	.09	.00
16	.09	.35	.34	.13	.05	16	.24	.27	7.1	.16	.07	.00
17	.06	.37	.27	.11	.08	5.7	.18	.39	3.4	.23	.03	.00
18	.04	.38	.27	.12	2.2	2.4	.15	2.6	2.0	.15	.00	.00
19	.02	.39	.21	.11	5.7	4.8	.16	1.5	1.5	.10	.03	.00
20	.02	.33	.21	.07	7.3	5.4	.67	1.3	1.9	.08	.04	.00
21	.04	.35	.21	.05	4.0	2.9	.47	.85	1.7	.07	.03	.00
22	.05	.37	.16	.08	2.1	2.2	.38	.55	5.7	.03	.01	.00
23	.03	.41	.16	.05	.99	1.9	.41	.34	4.5	.01	.11	.04
24	.03	.38	.19	.01	2.4	1.1	.47	.23	53	.00	5.2	.14
25	.05	.51	.12	.00	5.6	.79	.49	.18	53	.01	1.7	7.7
26	.06	.65	.15	.00	10	.70	.40	.44	157	.03	.52	2.4
27	.07	.65	.12	.00	3.6	.88	3.2	.61	31	.05	.20	.45
28	.09	.69	.10	.00	2.6	3.6	3.4	.40	6.7	.38	.61	.10
29	.13	.60	.13	.00	2.1	1.9	1.4	.36	3.1	.46	1.3	.04
30	.17	.51	.13	.00	---	1.3	.68	.30	1.4	.29	.92	.00
31	.25	---	.11	.00	---	.91	---	.24	---	.18	.47	---
MEAN	.27	.44	.32	.10	1.69	3.02	.63	.54	13.7	.41	1.28	.37
MAX	2.0	.69	.77	.30	10	16	3.4	2.6	157	2.2	14	7.7
MIN	.02	.18	.10	.00	.00	.34	.15	.18	.21	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2000, BY WATER YEAR (WY)

MEAN	18.1	14.9	7.82	20.6	28.7	27.4	44.3	50.8	22.4	12.8	6.79	1.84
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	.32	.10	1.69	3.02	.63	.54	3.66	.25	.025	.13
(WY)	1997	2000	2000	2000	2000	2000	2000	2000	1999	1999	1999	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1995 - 2000	
ANNUAL MEAN	21.7		1.88		21.0	
HIGHEST ANNUAL MEAN					37.0	1999
LOWEST ANNUAL MEAN					1.88	2000
HIGHEST DAILY MEAN	859	Jan 22	157	Jun 26	1480	Oct 5 1998
LOWEST DAILY MEAN	.00	Aug 10-Sep 26	.00	Several Days	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 10	.00	Jan 25	.00	Sep 30 1997
INSTANTANEOUS PEAK FLOW	---		209	Jun 26	2590	Jul 4 1998
INSTANTANEOUS PEAK STAGE	---		6.84	Jun 26	15.27	Jul 4 1998
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Several Years
10 PERCENT EXCEEDS	45		3.3		27	
50 PERCENT EXCEEDS	.78		.34		.97	
90 PERCENT EXCEEDS	.00		.00		.07	

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, 27,900 ac-ft, Oct. 1, elevation, 788.22 ft; minimum, 21,400 ac-ft, Sept. 30, elevation, 784.92 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	788.22	787.59	786.99	786.67	786.21	786.35	786.29	785.80	785.28	786.52	785.97	785.52
2	788.20	787.58	786.96	786.65	786.21	786.34	786.28	785.79	785.28	786.49	785.94	785.50
3	788.19	787.55	786.95	786.65	786.20	786.30	786.26	785.77	785.25	786.49	785.92	785.47
4	788.18	787.51	786.95	786.67	786.17	786.34	786.25	785.75	785.25	786.49	785.90	785.44
5	788.16	787.48	787.04	786.67	786.16	786.34	786.21	785.74	785.29	786.49	785.87	785.43
6	788.15	787.46	787.02	786.63	786.15	786.34	786.20	785.71	785.27	786.50	785.83	785.40
7	788.14	787.46	786.98	786.63	786.12	786.34	786.17	785.68	785.23	786.51	785.81	785.33
8	788.12	787.45	786.98	786.63	786.11	786.34	786.16	785.66	785.18	786.48	785.80	785.30
9	788.11	787.42	786.97	786.58	786.10	786.33	786.11	785.67	785.15	786.47	785.81	785.29
10	788.09	787.40	787.00	786.57	786.10	786.30	786.10	785.70	785.10	786.43	785.83	785.27
11	788.07	787.37	787.00	786.56	786.10	786.30	786.10	785.66	785.08	786.41	785.83	785.23
12	788.06	787.35	786.98	786.55	786.08	786.26	786.07	785.64	785.09	786.36	785.83	785.26
13	788.05	787.33	786.97	786.54	786.05	786.22	786.03	785.64	785.09	786.35	785.79	785.24
14	788.03	787.31	786.95	786.52	786.06	786.21	786.01	785.60	785.18	786.32	785.79	785.19
15	788.02	787.29	786.95	786.47	786.02	786.21	785.98	785.57	785.24	786.30	785.77	785.15
16	788.00	787.27	786.95	786.47	786.01	786.32	785.98	785.52	785.31	786.28	785.75	785.14
17	787.98	787.25	786.91	786.46	786.00	786.36	785.97	785.50	785.33	786.27	785.74	785.09
18	787.96	787.22	786.90	786.44	786.08	786.37	785.97	785.48	785.32	786.25	785.71	785.06
19	787.95	787.18	786.87	786.42	786.10	786.40	785.95	785.47	785.30	786.25	785.67	785.00
20	787.93	787.17	786.87	786.42	786.08	786.41	785.99	785.44	785.31	786.24	785.68	784.99
21	787.91	787.16	786.87	786.40	786.08	786.40	786.02	785.42	785.37	786.21	785.68	785.00
22	787.89	787.15	786.84	786.39	786.06	786.41	785.97	785.39	785.36	786.18	785.66	785.01
23	787.86	787.14	786.82	786.37	786.07	786.41	786.05	785.38	785.36	786.16	785.63	784.97
24	787.83	787.14	786.79	786.36	786.08	786.39	785.93	785.36	785.36	786.11	785.68	784.98
25	787.79	787.12	786.78	786.33	786.09	786.40	785.92	785.33	785.57	786.07	785.68	785.03
26	787.75	787.11	786.76	786.31	786.16	786.39	785.89	785.31	786.08	786.05	785.66	785.01
27	787.70	787.08	786.75	786.27	786.19	786.41	785.86	785.41	786.44	786.00	785.65	784.98
28	787.66	787.07	786.72	786.26	786.20	786.39	785.86	785.40	786.52	785.99	785.62	784.97
29	787.62	787.07	786.72	786.24	786.18	786.37	785.85	785.39	786.52	786.04	785.58	784.96
30	787.61	787.04	786.71	786.24	---	786.32	785.83	785.34	786.52	786.02	785.57	784.92
31	787.60	---	786.70	786.22	---	786.30	---	785.30	---	786.00	785.54	---
MEAN	787.96	787.29	786.89	786.47	786.11	786.34	786.04	785.54	785.45	786.28	785.75	785.17
MAX	788.22	787.59	787.04	786.67	786.21	786.41	786.29	785.80	786.52	786.52	785.97	785.52
MIN	787.60	787.04	786.70	786.22	786.00	786.21	785.83	785.30	785.08	785.99	785.54	784.92
(-)	25800	25500	24800	23800	23800	24000	23100	22100	24400	23400	22600	21400
(=)	-2100	-300	-700	-1000	0	+200	-900	-1000	+2300	-1000	-800	-1200

CAL YR 1999....-11200
WTR YR 2000.... -6500

(-) 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.--Estimated daily discharges: Oct. 13 to Nov. 22, Apr. 5-11, and May 9 to June 20. Records fair except for estimated daily discharges, which are 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	9.4	8.9	9.2	9.5	8.1	9.5	9.2	9.5	10	9.6	9.3
2	9.2	9.4	8.9	9.2	9.2	8.1	9.6	9.2	9.4	9.8	9.6	9.4
3	9.2	9.6	9.0	9.2	9.0	8.1	9.6	9.2	9.5	9.8	9.6	9.2
4	9.2	9.6	9.2	9.2	9.0	8.1	9.6	9.2	9.5	9.7	9.6	9.3
5	9.2	9.6	9.2	9.2	9.0	8.1	9.6	9.2	9.5	9.7	9.4	9.4
6	9.1	9.4	9.2	9.2	9.0	8.1	9.6	9.3	9.5	9.8	9.4	9.3
7	9.2	9.4	9.2	9.2	8.8	8.2	9.6	9.2	9.6	9.8	9.4	9.4
8	9.3	9.6	9.2	9.3	8.9	8.2	9.6	9.2	9.6	9.9	9.5	9.3
9	9.4	9.6	9.3	9.4	8.9	8.2	9.6	9.6	9.6	9.9	9.5	9.3
10	9.5	9.4	9.2	9.5	8.9	8.3	9.6	9.8	9.6	9.9	9.5	9.3
11	9.4	9.4	9.3	9.5	8.7	8.4	9.5	9.6	9.6	9.9	9.5	9.3
12	9.5	9.4	9.3	9.5	8.7	8.5	9.1	9.6	9.6	9.9	9.5	9.3
13	9.5	9.4	9.2	9.4	8.7	8.6	9.0	9.6	9.6	9.7	9.5	9.3
14	9.5	9.4	9.2	9.5	8.6	8.7	9.1	9.6	9.8	9.6	9.6	9.3
15	9.5	9.6	9.2	9.6	8.7	8.7	9.1	9.6	9.6	9.5	9.6	9.3
16	9.4	9.4	9.2	9.6	8.5	8.9	9.2	9.6	9.6	9.6	9.6	9.4
17	9.4	9.0	9.2	9.5	8.5	8.8	9.1	9.6	9.6	9.6	9.7	9.5
18	9.6	9.0	9.3	9.4	8.7	9.0	9.1	9.6	9.6	9.7	9.7	9.4
19	9.6	9.0	9.3	9.4	8.6	9.2	9.2	9.6	9.6	9.8	9.6	9.4
20	9.6	9.0	9.3	9.4	8.4	9.3	9.1	9.6	9.6	9.7	9.6	9.4
21	9.6	9.0	9.2	9.4	8.4	9.5	9.3	9.6	9.8	9.7	9.6	9.4
22	9.6	9.0	9.3	9.5	8.4	9.7	9.3	9.6	9.8	9.8	9.7	9.4
23	9.6	9.0	9.3	9.4	8.4	9.9	9.2	9.6	9.7	9.9	9.7	9.4
24	9.6	9.0	9.3	9.4	8.4	10	9.3	9.6	9.8	9.9	9.6	9.4
25	9.6	8.9	9.3	9.4	8.3	10	9.3	9.6	10	9.9	9.5	9.5
26	9.4	8.9	9.3	9.5	8.2	10	9.2	10	11	9.9	9.5	9.6
27	9.4	8.9	9.3	9.6	8.2	9.6	9.2	9.8	9.8	9.9	9.5	9.5
28	9.4	8.9	9.3	9.7	8.2	9.6	9.2	9.8	9.8	9.8	9.5	9.6
29	9.4	8.9	9.3	9.5	8.2	9.6	9.1	9.6	9.9	9.7	9.5	9.6
30	9.4	8.9	9.4	9.5	---	9.5	9.2	9.5	9.8	9.7	9.4	9.6
31	9.4	---	9.1	9.5	---	9.5	---	9.5	---	9.7	9.4	---
MEAN	9.42	9.23	9.22	9.41	8.66	8.92	9.32	9.53	9.70	9.78	9.55	9.39
MAX	9.6	9.6	9.4	9.7	9.5	10	9.6	10	11	10	9.7	9.6
MIN	9.1	8.9	8.9	9.2	8.2	8.1	9.0	9.2	9.4	9.5	9.4	9.2
IN.	.10	.09	.09	.10	.08	.09	.09	.10	.10	.10	.10	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2000[a], BY WATER YEAR (WY)

MEAN	61.2	69.7	83.9	50.7	60.6	115	136	181	125	127	70.4	52.5
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1979 - 2000[a]	
ANNUAL MEAN	95.6		9.35		94.7	
HIGHEST ANNUAL MEAN					242	1993
LOWEST ANNUAL MEAN					7.13	1989
HIGHEST DAILY MEAN	397	May 6	11	Jun 26	1380	May 18 1995
LOWEST DAILY MEAN	.00	Aug 23,24	8.1	Mar 1-6	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	6.2	Aug 22	8.1	Feb 29	.00	Many Years
INSTANTANEOUS PEAK FLOW	---		Unknown[b]		1560	May 7 1996
INSTANTANEOUS PEAK STAGE	---		7.87[b]	Nov 12	14.78	May 7 1996
INSTANTANEOUS LOW FLOW	---		8.0	Feb 29-Mar 7	.00	Many Years
ANNUAL RUNOFF (INCHES)	11.59		1.14		11.49	
10 PERCENT EXCEEDS	303		9.7		288	
50 PERCENT EXCEEDS	45		9.4		47	
90 PERCENT EXCEEDS	9.2		8.9		6.6	

[a]Post-regulation period.
[b]Occurred during period of backwater.

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.--Estimated daily discharges: Nov. 14, Nov. 23-24, Dec. 2-9, 21-27, Jan. 23 to Feb. 8, and July 28. Water-discharge records fair except for 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	11	10	10	8.0	37	16	9.8	7.6	14	15	16
2	11	10	10	11	8.3	35	17	13	6.9	11	17	15
3	20	10	10	11	8.3	26	17	13	6.6	110	14	14
4	20	11	18	11	8.5	28	16	14	6.7	53	15	13
5	15	11	77	9.0	8.5	27	15	14	7.4	23	12	14
6	11	11	26	11	8.8	25	15	14	6.8	16	12	14
7	11	11	16	9.4	8.8	23	15	12	6.8	12	66	13
8	11	11	13	10	9.0	19	16	11	6.6	11	83	12
9	10	11	20	13	9.3	17	15	19	6.7	11	39	12
10	10	11	23	11	9.7	16	15	25	6.9	11	17	12
11	9.9	11	14	10	9.5	16	16	18	6.8	11	14	12
12	11	12	11	9.9	8.8	16	17	15	7.9	13	12	15
13	9.9	11	11	10	8.7	16	16	12	7.3	13	12	14
14	8.9	11	11	11	9.1	16	17	11	78	11	14	12
15	9.6	11	11	11	8.7	19	17	11	69	12	14	12
16	9.7	11	11	10	8.7	78	17	12	13	11	12	12
17	11	11	11	9.9	8.6	64	19	12	15	18	11	15
18	12	12	10	9.9	51	36	18	12	13	17	12	12
19	11	11	10	9.9	35	34	15	10	11	57	11	11
20	10	10	11	8.9	14	30	16	10	21	22	51	12
21	12	10	8.0	8.8	11	27	20	10	267	14	24	15
22	14	11	8.2	11	10	23	20	11	58	14	16	13
23	14	27	8.2	9.5	10	21	17	11	17	14	15	13
24	15	13	8.5	9.0	26	20	19	9.9	526	14	2250	15
25	14	11	8.8	9.5	32	20	16	8.5	134	16	302	23
26	16	11	8.8	9.5	199	19	14	14	296	16	98	22
27	14	11	9.0	9.0	43	23	15	104	102	18	62	15
28	14	10	9.6	8.5	21	23	17	29	32	43	43	13
29	11	11	10	8.0	19	20	15	13	16	32	27	12
30	11	10	11	8.0	---	17	11	8.9	11	16	22	12
31	11	---	9.4	8.3	---	16	---	8.9	---	15	18	---
MEAN	12.4	11.5	14.0	9.87	21.4	26.0	16.3	16.0	59.0	21.6	107	13.8
MAX	20	27	77	13	199	78	20	104	526	110	2250	23
MIN	8.9	10	8.0	8.0	8.0	16	11	8.5	6.6	11	11	11
IN.	.06	.06	.07	.05	.10	.14	.08	.08	.30	.11	.56	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2000[a], BY WATER YEAR (WY)

MEAN	111	140	151	99.5	170	236	260	327	213	240	110	112
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1979 - 2000[a]	
ANNUAL MEAN	180		27.5		181	
HIGHEST ANNUAL MEAN					468	1993
LOWEST ANNUAL MEAN					17.3	1989
HIGHEST DAILY MEAN	2840	Jul 1	2250	Aug 24	7760	Oct 3 1986
LOWEST DAILY MEAN	1.9	Aug 26	6.6	Jun 3,8	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	5.1	Aug 22	6.8	Jun 3	.40	Oct 9 1980
INSTANTANEOUS PEAK FLOW	---		3560	Aug 24	10400	Jun 27 1981
INSTANTANEOUS PEAK STAGE	---		15.12	Aug 24	19.30	Sep 2 1982
INSTANTANEOUS LOW FLOW	---		6.2	Jun 3	.00	Many Years
ANNUAL RUNOFF (INCHES)	11.11		1.70		11.17	
10 PERCENT EXCEEDS	415		31		393	
50 PERCENT EXCEEDS	62		12		64	
90 PERCENT EXCEEDS	9.8		8.8		8.4	

[a]Post-regulation period.

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
09...	0821	12	8.6	82	7.5	729	13.5	31	24	38	95
JAN											
03...	1315	11	--	--	7.6	912	3.0	K15	K10	52	94
MAR											
06...	1230	26	10.7	98	7.5	1260	11.1	K9	30	41	99
MAY											
01...	1200	9.5	6.9	75	7.7	1020	20.0	K35	K76	72	94
JUL											
10...	1230	10	5.9	79	7.6	801	30.4	180	220	58	97
SEP											
13...	0955	14	5.2	60	7.5	560	22.1	120	160	160	93

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
09...	96	117	0	290	68.1	29.3	4.8	42.4	12.4	.2	268
JAN											
03...	98	120	0	--	--	--	--	--	--	--	--
MAR											
06...	100	123	0	--	--	--	--	--	--	--	--
MAY											
01...	95	116	0	450	105	45.5	4.6	45.3	7.4	.4	427
JUL											
10...	96	117	0	--	--	--	--	--	--	--	--
SEP											
13...	94	115	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV											
09...	.021	.60	<.050	<.010	<.050	.019	.094	19	22	523	46
JAN											
03...	.027	.37	.101	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
06...	.038	.62	<.050	<.010	<.050	<.010	.074	--	--	--	--
MAY											
01...	.022	.50	<.050	<.010	<.050	<.010	E.043	16	20	744	27
JUL											
10...	<.020	.64	<.050	<.010	<.050	.013	.051	--	--	--	--
SEP											
13...	.042	.58	.083	<.010	E.036	.018	.085	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
09...	452	<8.0	<.1	<10	90	<100	<1	179	<.3	<20	<31
MAY											
01...	488	<8.0	E.1	<10	30	<100	E1	834	<.3	49	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.--Estimated daily discharges: Jan. 29 to Feb. 7. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	4.5	6.2	17	12	236	46	13	119	140	34	5.8
2	13	5.5	5.7	16	12	174	43	13	79	126	24	6.3
3	17	3.4	6.8	17	13	147	40	13	55	113	19	5.7
4	38	3.2	12	19	13	138	36	14	45	142	16	5.5
5	49	4.3	55	19	14	119	33	14	67	100	15	5.1
6	28	4.3	240	20	14	99	30	15	57	63	13	5.2
7	16	4.7	132	20	14	83	28	15	30	66	13	5.7
8	12	6.3	69	19	15	71	25	15	24	44	28	5.7
9	8.9	8.0	106	19	15	58	23	1890	20	32	69	5.7
10	7.4	8.3	615	19	15	46	22	1740	18	25	84	6.0
11	6.1	7.7	295	18	15	53	22	520	22	22	35	6.1
12	5.2	7.9	148	17	15	63	21	270	137	1210	22	7.0
13	5.5	7.7	89	16	15	83	19	149	85	945	16	6.7
14	5.1	7.7	65	16	15	142	18	85	118	249	14	6.7
15	4.6	6.9	51	16	14	219	18	55	697	116	13	6.5
16	4.3	6.5	42	16	14	1410	17	41	248	69	12	6.7
17	3.0	6.4	35	15	15	1330	16	33	1430	67	10	6.3
18	2.6	6.3	31	15	5750	550	16	28	568	181	11	6.0
19	2.6	6.3	28	15	1920	407	16	23	269	200	13	5.7
20	2.3	4.8	27	15	565	406	17	20	244	127	73	5.6
21	2.5	4.5	31	15	350	363	18	18	5380	69	27	5.3
22	2.8	4.8	25	15	249	266	18	17	889	44	14	5.3
23	2.3	9.5	24	15	184	207	17	16	371	33	11	5.9
24	1.6	14	23	17	157	170	16	15	355	27	9.4	6.9
25	1.8	16	21	14	828	144	16	14	925	23	9.3	10
26	2.7	16	21	14	3830	119	16	1930	1250	20	8.4	13
27	3.2	13	20	14	905	110	15	10000	1360	18	7.8	14
28	2.9	9.6	19	14	447	95	15	3050	471	16	7.4	12
29	2.7	8.0	19	13	312	73	15	529	285	71	6.8	8.9
30	2.6	6.9	18	12	---	59	14	301	190	125	6.4	7.6
31	2.9	---	18	12	---	51	---	192	---	49	6.0	---
MEAN	8.95	7.43	74.1	16.1	543	242	22.2	679	527	146	20.9	6.96
MAX	49	16	615	20	5750	1410	46	10000	5380	1210	84	14
MIN	1.6	3.2	5.7	12	12	46	14	13	18	16	6.0	5.1
IN.	.02	.02	.16	.03	1.08	.51	.05	1.44	1.08	.31	.04	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

MEAN	212	600	360	329	584	615	904	1391	602	730	171	336
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1987 - 2000	
ANNUAL MEAN	450		190		569	
HIGHEST ANNUAL MEAN					1464	1993
LOWEST ANNUAL MEAN					155	1992
HIGHEST DAILY MEAN	17800	May 5	10000	May 27	47000	May 18 1995
LOWEST DAILY MEAN	1.6	Sep 3,Oct 24	1.6	Oct 24	1.3	Aug 26 1991
ANNUAL SEVEN-DAY MINIMUM	2.1	Sep 6	2.3	Oct 19	1.4	Aug 23 1991
INSTANTANEOUS PEAK FLOW	---		12400	May 27	84900	May 18 1995
INSTANTANEOUS PEAK STAGE	---		16.26	May 27	29.43	May 18 1995
INSTANTANEOUS LOW FLOW	---		1.6	Oct 24,25	1.2	Aug 28 1991
ANNUAL RUNOFF (INCHES)	11.26		4.76		14.24	
10 PERCENT EXCEEDS	751		304		800	
50 PERCENT EXCEEDS	78		18		80	
90 PERCENT EXCEEDS	3.2		5.7		9.1	

06907300 LAMINE RIVER NEAR PILOT GROVE, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.-- Lat 38°53'32", long 93°02'00", in NE 1/4 NW 1/4 sec.32, T.48 N., R.19 W., Cooper County, Hydrologic Unit 10300102. Approximatly 2 mi southeast of County Highway Z on Shackleford Road.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
08...	1500	28	8.1	80	7.4	385	15.0	K13	22	27	150
JAN											
04...	1545	40	11.2	83	7.2	332	3.2	LA	45	80	123
FEB											
02...	1035	16	18.5	129	8.4	534	1.0	K7	K7	22	174
MAR											
07...	1315	113	9.3	89	6.8	311	13.2	K25	53	81	106
APR											
04...	0915	40	9.5	87	8.3	361	11.5	LA	60	78	139
MAY											
02...	1300	30	7.1	79	7.7	467	20.9	K60	K61	78	176
JUN											
13...	0945	259	7.0	86	7.7	372	25.2	710	K670	K1100	138
JUL											
11...	1245	107	7.4	99	7.9	334	30.3	290	280	100	147
SEP											
13...	1345	15	6.3	75	7.8	360	24.2	K15	48	72	149

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
08...	154	187	0	160	38.3	14.8	5.8	17.0	15.6	.2	20.4
JAN											
04...	127	155	0	--	--	--	--	--	--	--	--
FEB											
02...	174	203	5	--	--	--	--	--	--	--	--
MAR											
07...	109	133	0	--	--	--	--	--	--	--	--
APR											
04...	140	164	3	--	--	--	--	--	--	--	--
MAY											
02...	182	222	0	190	45.0	18.6	4.6	21.3	20.9	.2	31.1
JUN											
13...	140	170	0	--	--	--	--	--	--	--	--
JUL											
11...	151	185	0	160	43.6	12.9	3.5	8.8	9.3	.2	15.0
SEP											
13...	150	183	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
LA--Laboratory accident.

06907300 LAMINE RIVER NEAR PILOT GROVE, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
NOV 08...	<.020	.73	<.050	<.010	.157	.125	.270	13	17	229	E10
JAN 04...	<.020	.69	1.35	.016	.333	.256	.473	--	--	--	--
FEB 02...	<.020	.90	4.60	.018	1.84	1.55	2.00	--	--	--	--
MAR 07...	.024	.90	1.43	.026	.224	.211	.408	--	--	--	--
APR 04...	<.020	.65	.229	<.010	.266	.236	.355	--	--	--	--
MAY 02...	<.020	.60	<.050	<.010	.148	.108	.241	15	23	265	30
JUN 13...	.029	.73	1.62	.017	.207	.183	.309	--	--	--	--
JUL 11...	<.020	.81	.277	<.010	.111	.094	.201	21	30	204	29
SEP 13...	.050	.81	<.050	<.010	E.047	.038	.179	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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 08...	320	<8.0	<.1	<10	20	<100	E1	206	<.3	<20	<31
MAY 02...	365	<8.0	<.1	<10	30	<100	E1	30	<.3	E19	<31
JUL 11...	476	<8.0	<.1	<10	40	<100	1	43	<.3	E20	<31

E--Laboratory estimated value.

06908000 BLACKWATER RIVER AT 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.--Estimated daily discharges: Jan. 28 to Feb. 8, March 20, 21, April 15-22, and April 24 to May 2. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	7.7	13	26	15	170	152	30	101	208	51	8.7
2	85	9.2	12	27	16	142	139	28	76	189	44	8.3
3	180	6.2	12	28	17	125	139	26	56	818	38	8.4
4	318	5.1	15	28	18	123	133	42	44	1530	33	8.3
5	171	5.4	144	31	18	127	122	62	35	539	28	7.9
6	89	12	695	40	19	110	118	42	27	438	23	8.2
7	55	8.9	342	40	20	97	117	31	24	280	23	9.6
8	85	12	150	36	23	91	107	25	20	144	98	8.6
9	174	15	486	35	25	82	91	31	17	110	175	7.9
10	100	13	1710	30	26	71	81	58	16	90	161	7.0
11	54	11	882	30	25	66	74	167	17	72	91	6.8
12	32	9.8	279	31	25	66	72	96	90	695	57	7.6
13	21	9.7	154	30	25	72	79	59	135	2000	39	8.9
14	17	10	111	26	25	81	72	39	2140	835	29	18
15	14	10	89	23	22	97	58	30	5220	191	22	31
16	13	11	74	24	21	2100	48	23	5400	122	18	22
17	12	11	67	22	21	3480	41	19	3850	105	15	15
18	11	10	59	20	1390	1750	38	17	1400	864	14	11
19	9.9	11	51	20	3120	593	38	15	494	719	13	9.3
20	9.4	11	46	19	1980	705	39	14	1850	268	826	8.3
21	11	11	41	18	1220	625	46	13	7620	151	246	7.8
22	9.9	11	37	18	427	368	57	13	8190	115	57	8.1
23	9.0	19	34	18	270	269	67	54	9730	91	28	9.6
24	8.5	48	31	17	293	225	58	54	10700	74	17	11
25	7.9	110	27	16	531	205	51	30	9660	61	13	20
26	7.6	63	25	17	1020	183	46	234	4890	52	12	59
27	8.0	37	25	16	983	279	42	3880	1410	47	10	81
28	7.9	24	25	15	370	890	37	3540	755	42	8.9	50
29	6.6	18	25	15	221	382	34	1120	404	48	9.0	29
30	5.7	15	26	14	---	225	31	261	277	77	9.4	18
31	6.5	---	25	14	---	180	---	140	---	61	9.3	---
MEAN	54.8	18.5	184	24.0	420	451	74.2	329	2488	356	71.5	17.1
MAX	318	110	1710	40	3120	3480	152	3880	10700	2000	826	81
MIN	5.7	5.1	12	14	15	66	31	13	16	42	8.9	6.8
IN.	.06	.02	.19	.02	.40	.46	.07	.34	2.48	.37	.07	.02

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

MEAN	573	622	470	468	746	1054	1438	1244	1232	836	304	629
MAX	9500	6100	3359	2326	5206	4706	8473	8090	4416	8855	1835	5979
(WY)	1987	1929	1983	1974	1985	1973	1973	1995	1969	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	1024		371		803	
HIGHEST ANNUAL MEAN					2540	1993
LOWEST ANNUAL MEAN					95.8	1957
HIGHEST DAILY MEAN	10700	Feb 3	10700	Jun 24	48400	Nov 18 1928
LOWEST DAILY MEAN	5.1	Nov 4	5.1	Nov 4	.00	Jul 17-31 1980
ANNUAL SEVEN-DAY MINIMUM	6.5	Oct 30	6.5	Oct 30	.00	Jul 17 1980
INSTANTANEOUS PEAK FLOW	---		10800	Jun 24	54000	Nov 18 1928
INSTANTANEOUS PEAK STAGE	---		29.90	Jun 24	41.53	Oct 3 1986
INSTANTANEOUS LOW FLOW	---		4.8	Nov 4	.00	Jul 17-31 1980
ANNUAL RUNOFF (INCHES)	12.42		4.51		9.74	
10 PERCENT EXCEEDS	4120		709		2390	
50 PERCENT EXCEEDS	164		39		91	
90 PERCENT EXCEEDS	10		9.5		4.8	

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.--Estimated daily discharges: May 17-19. Records good, except for 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70600	59300	59400	42500	34900	41700	52500	43700	51500	77900	52400	42100
2	66500	59800	59100	42700	33600	42400	50000	44300	49900	68600	49200	41900
3	65000	60400	58500	43000	32100	41800	49200	44800	49200	64200	47200	41500
4	64300	60200	59000	43200	31600	40500	48500	44600	49900	64000	47700	41300
5	63600	60300	59900	43300	31600	40300	47500	44100	50200	63500	48300	41000
6	62900	60300	61200	43100	31800	40100	47000	43600	50000	62000	47700	41200
7	62700	60100	61800	43100	31900	38800	46200	43500	49400	75400	47200	41600
8	62400	60500	60800	42700	32400	37300	45700	43400	49100	80500	49900	41700
9	61700	59900	59400	42100	33100	36900	45500	44100	48400	71400	49400	41400
10	60900	59400	59400	41200	32800	37000	45500	46000	47700	72100	48800	41100
11	60200	58900	59700	41100	32200	37700	45200	46900	47700	71700	47000	40800
12	59900	59300	54200	40900	32700	37400	44600	46600	47600	67900	46000	41100
13	59900	59200	50000	40800	34600	36700	44500	45600	47300	65400	44600	41400
14	59500	59100	47700	41200	35800	36400	45100	44900	52900	61000	43900	41400
15	59600	59500	45500	41400	35400	36300	45100	44600	60400	56600	44300	41300
16	59900	59500	43900	41000	33800	38000	43800	45500	65300	54600	44500	41000
17	59600	59200	42700	40200	32500	44100	43200	46300	63000	54300	44100	40800
18	59900	59000	42300	39600	34300	45400	43400	47300	61100	57100	44100	41000
19	59800	58800	42100	39400	45100	40700	43900	48000	56600	60200	43400	41100
20	59700	58900	42100	39000	45000	37700	45100	48600	54800	56800	46600	41200
21	59700	59100	41900	38700	39900	37100	46300	48000	75900	52700	46200	41100
22	60000	59600	41100	37700	36200	37500	47200	48100	99100	52100	46900	40900
23	60000	60500	40700	37100	35100	37100	47200	49500	83400	51800	49100	41400
24	59700	62300	40500	38100	34700	36400	45900	51500	71900	49600	50500	41900
25	59100	63600	40200	38000	35100	38200	45000	51100	74400	48000	54000	44800
26	58800	63100	39400	36900	38700	42700	44700	51600	126000	47500	49600	46400
27	58800	62300	38400	36500	43100	48000	44900	64100	121000	46800	46700	47600
28	59000	61100	38300	36600	41300	50800	44400	72300	115000	46200	45400	47900
29	59000	60400	40100	36600	41100	51100	43700	64500	107000	47600	44300	46300
30	58800	60200	41700	36100	---	53700	43500	55700	91300	49700	43200	44700
31	58600	---	42200	35500	---	55200	---	53100	---	53600	42400	---
MEAN	60970	60130	48810	39980	35600	41130	45810	48900	67230	59700	46920	42300
MAX	70600	63600	61800	43300	45100	55200	52500	72300	126000	80500	54000	47900
MIN	58600	58800	38300	35500	31600	36300	43200	43400	47300	46200	42400	40800
IN.	.14	.13	.11	.09	.08	.09	.10	.11	.15	.14	.11	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2000[a], BY WATER YEAR (WY)

MEAN	66700	62760	45930	36310	49630	71160	91660	92880	94300	85790	64880	67200
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1958 - 2000[a]	
ANNUAL MEAN	92110		49820		69140	
HIGHEST ANNUAL MEAN					140500	1993
LOWEST ANNUAL MEAN					39070	1963
HIGHEST DAILY MEAN	262000	Apr 18	126000	Jun 26	721000	Jul 30 1993
LOWEST DAILY MEAN	38300	Dec 28	31600	Feb 4,5	5000	Dec 21 1963
ANNUAL SEVEN-DAY MINIMUM	39700	Dec 23	32100	Feb 3	5730	Dec 19 1963
INSTANTANEOUS PEAK FLOW	---		134000	Jun 26	755000	Jul 29 1993
INSTANTANEOUS PEAK STAGE	---		18.80	Jun 26	37.10	Jul 29 1993
INSTANTANEOUS LOW FLOW	---		31500	Feb 4	5500	Jan 22,24 1963
ANNUAL RUNOFF (INCHES)	2.49		1.35		1.87	
10 PERCENT EXCEEDS	166000		62500		125000	
50 PERCENT EXCEEDS	70400		46600		55700	
90 PERCENT EXCEEDS	50300		37100		29400	

[a]Post-regulation period.

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.--Estimated daily discharges: Jan. 14-30. 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, 13,800 ft^3/s, June 27; minimum, 77 ft^3/s, Sept. 18.

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	13600	253	395	1270	364	2540	2860	405	551	2900	372	119
2	10200	267	374	1430	350	2050	2450	375	451	2000	376	106
3	4040	271	349	1420	332	2080	2120	369	416	1470	360	107
4	1980	271	510	1400	323	2000	2070	379	392	1110	349	121
5	1380	264	2110	1440	321	2200	2110	396	385	1010	311	125
6	978	266	4110	1540	318	2800	1620	364	383	819	266	106
7	750	266	4280	1530	318	2470	1310	364	370	657	286	102
8	597	280	3820	1490	306	2210	1090	399	358	537	289	83
9	486	284	3150	1610	299	2180	904	507	373	481	252	83
10	467	293	4730	1710	295	2070	758	1120	347	448	246	83
11	434	302	7240	1710	316	1840	667	2380	322	395	210	82
12	425	296	7740	1710	314	1620	621	1700	340	371	188	98
13	405	296	5000	1750	305	1670	574	909	405	338	192	82
14	375	307	2720	1800	297	2040	543	590	389	320	215	105
15	331	294	1900	1800	283	2760	522	473	1060	285	178	89
16	296	300	1520	1750	291	5760	506	409	2830	241	169	88
17	293	312	1250	1700	294	9560	481	376	5510	271	111	86
18	266	295	1070	1650	583	10400	477	344	5750	281	111	77
19	259	298	971	1500	3930	9220	448	342	4350	238	101	83
20	255	303	920	1500	5240	8830	444	328	2520	192	111	97
21	248	313	861	1400	4110	9080	465	315	3360	200	97	89
22	266	324	800	1400	2880	8110	521	300	8820	970	91	83
23	256	333	744	1350	2080	5680	556	335	9490	1150	95	99
24	258	615	692	1300	1700	4280	567	336	5670	3280	105	103
25	252	1330	650	1200	1660	6130	532	305	2800	4100	108	113
26	255	1140	619	950	2840	7920	528	300	7070	3040	105	99
27	248	1000	598	800	4290	6310	501	458	13800	1350	108	107
28	257	768	583	650	5750	4180	541	1220	12800	565	112	109
29	259	572	570	500	4240	3250	469	1910	9120	586	125	104
30	261	452	570	420	---	2960	435	1120	5450	557	112	110
31	263	---	661	380	---	2830	---	692	---	440	136	---
MEAN	1311	419	1984	1357	1539	4420	923	639	3529	987	190	97.9
MAX	13600	1330	7740	1800	5750	10400	2860	2380	13800	4100	376	125
MIN	248	253	349	380	283	1620	435	300	322	192	91	77

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 Setember 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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
NOV												
01...	1315	253	7.8	79	7.8	363	16.2	32	48	K6	148	150
MAR												
20...	1510	8830	11.6	96	7.4	332	7.6	1400	2600	1900	102	106
APR												
11...	1315	662	9.2	91	8.3	483	15.5	K22	K16	40	174	173
MAY												
22...	1405	300	8.0	100	8.1	577	26.7	K20	K31	110	161	163
JUN												
05...	1155	385	5.9	70	8.0	483	24.5	73	92	120	158	157
JUL												
24...	1345	3560	4.6	52	7.4	158	22.1	650	2300	4000	53	53

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)
NOV												
01...	183	0	170	55.8	7.78	3.5	14.8	10.6	.2	36.8	<.020	.61
MAR												
20...	129	0	--	--	--	--	--	--	--	--	<.020	1.5
APR												
11...	206	2	--	--	--	--	--	--	--	--	<.020	.70
MAY												
22...	199	0	250	74.9	14.5	3.9	21.7	15.8	.2	97.2	<.020	.75
JUN												
05...	191	0	--	--	--	--	--	--	--	--	.050	.75
JUL												
24...	64	0	--	--	--	--	--	--	--	--	<.020	1.9

DATE	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (UG/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV												
01...	<.050	<.010	<.050	.010	.122	20	21	236	62	492	<8.0	<.1
MAR												
20...	1.16	.033	E.034	.048	.389	--	--	--	--	--	--	--
APR												
11...	<.050	<.010	<.050	<.010	.103	--	--	--	--	--	--	--
MAY												
22...	.163	.016	<.050	<.010	.127	16	61	356	29	1210	<8.0	<.1
JUN												
05...	.722	.061	.096	.089	.168	--	--	--	--	--	--	--
JUL												
24...	.373	.054	.108	.038	.665	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

06918070 OSAGE RIVER ABOVE SCHELL CITY, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)
NOV											
01...	<10	50	<100	1	10	<.3	60	<31	<.003	<.010	<.002
MAR											
20...	--	--	--	--	--	--	--	--	<.003	.019	<.002
APR											
11...	--	--	--	--	--	--	--	--	<.003	<.002	<.002
MAY											
22...	<10	20	<100	1	27	<.3	21	E19	<.003	.053	.021
JUN											
05...	--	--	--	--	--	--	--	--	<.003	.040	.100
JUL											
24...	--	--	--	--	--	--	--	--	<.003	<.002	.021

DATE	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	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 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)
NOV											
01...	.213	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.011	<.002
MAR											
20...	.162	<.001	.006	<.002	<.003	<.003	<.004	<.004	<.002	E.011	<.002
APR											
11...	.152	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.027	<.002
MAY											
22...	.723	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.100	<.002
JUN											
05...	3.09	<.001	<.002	<.002	<.003	<.003	<.004	.005	<.002	E.230	<.002
JUL											
24...	.210	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.014	<.002

DATE	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)	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)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)
NOV											
01...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.045	<.004
MAR											
20...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.083	<.004
APR											
11...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.031	<.004
MAY											
22...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.104	<.004
JUN											
05...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.230	.025
JUL											
24...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.074	<.004

E--Laboratory estimated value.

06918070 OSAGE RIVER ABOVE SCHELL CITY, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	MOL-INATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	PARA-THION, DIS-SOLVED (µg/L) (39542)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	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)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	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)
NOV											
01...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	E.010	<.007	<.004	<.013
MAR											
20...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	E.011	<.007	<.004	<.013
APR											
11...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
MAY											
22...	<.004	<.003	<.004	<.030	<.004	<.004	<.002	E.013	<.007	<.004	<.013
JUN											
05...	<.004	<.003	<.004	<.030	<.004	<.004	<.002	.043	<.007	<.004	<.013
JUL											
24...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	E.006	<.007	<.004	<.013

DATE	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	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)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	P,P' DDE DISSOLV (µg/L) (34653)
NOV											
01...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
MAR											
20...	<.003	.009	<.010	<.007	<.013	<.002	<.001	.005	<.002	<.005	<.006
APR											
11...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
MAY											
22...	<.003	.043	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
JUN											
05...	<.003	.013	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
JUL											
24...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006

E--Laboratory estimated value.

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.--No estimated daily discharges. Records good. U.S. Army Corps of Engineers 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	23	21	19	44	30	66	78	46	29	195	204	26
2	22	21	19	43	30	62	78	47	28	176	183	25
3	21	21	24	48	30	77	75	43	27	165	163	25
4	21	21	99	52	30	86	71	41	27	148	145	25
5	21	21	208	47	29	99	67	39	26	128	131	24
6	21	22	128	45	28	110	65	38	25	111	118	23
7	20	22	93	43	28	112	63	38	25	97	107	22
8	21	22	69	44	27	110	58	38	24	85	96	22
9	21	22	110	46	26	107	56	63	24	74	86	22
10	21	22	472	46	27	101	55	91	23	64	77	22
11	22	21	340	44	26	108	55	75	24	56	70	22
12	21	20	263	43	26	105	52	62	25	92	65	27
13	20	21	213	42	26	107	51	53	25	160	60	26
14	19	21	180	40	26	105	50	48	28	124	56	24
15	19	21	155	39	26	102	49	45	29	102	52	22
16	19	21	135	39	25	96	48	44	29	87	48	21
17	19	21	122	38	28	90	48	42	33	78	46	20
18	19	21	110	37	41	88	45	40	48	74	42	20
19	19	20	101	37	61	93	45	37	55	71	41	20
20	20	20	92	35	72	87	45	36	53	230	41	20
21	20	20	82	35	73	80	43	36	178	159	39	19
22	20	21	75	35	73	74	41	35	174	170	38	19
23	19	32	69	34	70	73	42	34	138	385	35	21
24	19	34	64	33	66	71	46	33	107	352	34	21
25	19	27	59	33	72	67	44	42	89	279	32	21
26	19	24	55	32	84	65	42	41	76	229	31	21
27	20	22	53	31	78	69	41	39	68	218	30	22
28	20	21	51	32	74	63	40	37	166	188	29	24
29	20	20	49	32	70	67	39	34	314	193	27	24
30	20	19	48	32	---	80	38	31	226	240	27	23
31	21	---	46	30	---	80	---	30	---	227	26	---
MEAN	20.2	22.1	116	39.1	44.9	87.1	52.3	43.8	71.4	160	70.3	22.4
MAX	23	34	472	52	84	112	78	91	314	385	204	27
MIN	19	19	19	30	25	62	38	30	23	56	26	19
IN.	.09	.10	.52	.18	.19	.39	.23	.20	.31	.72	.32	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000, BY WATER YEAR (WY)

MEAN	140	304	305	240	285	435	406	362	215	116	63.3	113
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1966 - 2000	
ANNUAL MEAN	305		62.8		249	
HIGHEST ANNUAL MEAN					560	1993
LOWEST ANNUAL MEAN					50.2	1977
HIGHEST DAILY MEAN	5660	May 5	472	Dec 10	23300	Sep 25 1993
LOWEST DAILY MEAN	19	Several Days	19	Several Days	4.5	Sep 14 1980
ANNUAL SEVEN-DAY MINIMUM	19	Oct 13	19	Oct 13	5.3	Sep 11 1980
INSTANTANEOUS PEAK FLOW	---		601	Jul 20	36100	Sep 25 1993
INSTANTANEOUS PEAK STAGE	---		7.32	Jul 20	27.56	Sep 25 1993
INSTANTANEOUS LOW FLOW	---		18	Oct 16	3.8	Aug 8 1996
ANNUAL RUNOFF (INCHES)	16.11		3.33		13.15	
10 PERCENT EXCEEDS	824		129		541	
50 PERCENT EXCEEDS	156		42		114	
90 PERCENT EXCEEDS	21		21		25	

06918460 TURNBACK CREEK ABOVE GREENFIELD, MO

LOCATION.--Lat 37°24'09", long 93°48'06", on line between sec.21 and 28, T.31 N., R.26 W., Dade County, Hydrologic Unit 10290106, on left downstream 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.--No estimated daily discharges. Records fair. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	39	33	68	44	167	162	67	62	883	294	42
2	33	38	33	66	45	152	163	68	59	719	260	42
3	33	36	43	71	45	156	157	63	58	506	235	41
4	32	36	207	73	42	163	149	60	54	396	212	38
5	31	36	335	69	41	174	140	57	51	320	189	35
6	31	38	208	67	40	173	132	55	48	268	172	35
7	31	37	162	65	40	166	125	54	45	230	158	37
8	34	36	135	66	39	159	115	53	42	203	146	36
9	33	35	182	67	39	149	109	121	39	180	135	34
10	37	34	485	66	38	139	105	211	37	161	127	33
11	38	34	389	64	37	144	101	181	43	144	120	32
12	35	33	311	64	37	139	96	153	45	377	113	47
13	35	33	257	62	38	149	93	130	42	353	106	39
14	37	32	224	59	37	158	89	113	48	229	100	36
15	37	34	196	58	36	159	86	103	47	189	94	32
16	38	33	171	57	35	154	84	98	48	161	89	32
17	37	32	156	56	39	144	80	92	74	143	84	31
18	37	32	143	55	56	140	76	90	130	132	79	30
19	38	31	135	55	96	139	73	100	136	120	79	28
20	38	30	122	54	112	135	72	96	133	125	74	26
21	38	31	113	52	114	129	69	91	371	121	71	25
22	38	34	106	52	113	123	65	92	309	399	67	26
23	37	55	100	51	109	118	66	99	252	1150	63	35
24	36	57	96	50	104	115	66	92	213	539	60	42
25	36	47	90	49	186	109	62	110	184	411	57	46
26	38	41	86	48	302	108	60	107	168	335	55	42
27	37	39	83	47	247	109	58	103	151	296	52	37
28	36	38	80	47	214	105	55	95	281	265	49	34
29	37	36	77	47	190	115	54	86	297	338	47	32
30	38	34	74	45	---	142	52	77	243	384	46	31
31	37	---	71	44	---	158	---	69	---	336	44	---
MEAN	35.7	36.7	158	57.9	86.7	142	93.8	96.3	124	336	112	35.2
MAX	38	57	485	73	302	174	163	211	371	1150	294	47
MIN	31	30	33	44	35	105	52	53	37	120	44	25
IN.	.16	.16	.72	.26	.37	.65	.42	.44	.55	1.54	.51	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2000, BY WATER YEAR (WY)

MEAN	152	320	300	249	312	462	444	376	250	157	90.7	135
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1965 - 2000	
ANNUAL MEAN	306		110		270	
HIGHEST ANNUAL MEAN					612	1993
LOWEST ANNUAL MEAN					84.1	1981
HIGHEST DAILY MEAN	4930	May 5	1150	Jul 23	23700	Sep 25 1993
LOWEST DAILY MEAN	30	Sep 27	25	Sep 21	9.4	Oct 12 1980
ANNUAL SEVEN-DAY MINIMUM	32	Nov 15	28	Sep 16	10	Oct 8 1980
INSTANTANEOUS PEAK FLOW	---		2170	Jul 22	44000	Oct 1 1986
INSTANTANEOUS PEAK STAGE	---		11.35	Jul 22	26.34	Sep 25 1993
INSTANTANEOUS LOW FLOW	---		25	Sep 20-22	9.4	Oct 12 1980
ANNUAL RUNOFF (INCHES)	16.50		5.94		14.57	
10 PERCENT EXCEEDS	700		226		581	
50 PERCENT EXCEEDS	159		68		131	
90 PERCENT EXCEEDS	36		34		32	

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 mi north of Springfield.

DRAINAGE AREA.--13.7 mi^2.

PERIOD OF RECORD.--August 30, 1996 to present.

GAGE.--Water stage recorder.

REMARKS.--Estimated daily discharge: July 12. Records 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	1.7	1.7	1.7	3.2	2.8	4.3	6.0	2.6	2.7	18	12	3.4
2	1.5	2.1	1.7	3.2	2.7	4.2	5.7	2.5	2.6	26	10	2.9
3	1.6	2.3	5.4	3.5	2.5	6.4	5.5	2.5	2.3	29	8.0	2.8
4	1.5	2.3	30	3.4	2.1	8.6	5.2	2.3	2.3	21	6.5	2.9
5	1.5	2.2	20	3.4	1.9	8.0	5.2	2.1	2.3	16	5.1	2.8
6	1.4	2.1	12	3.4	1.9	7.1	5.4	2.0	2.3	16	6.0	2.7
7	1.3	2.0	8.2	3.3	1.9	6.5	5.5	2.0	2.3	14	6.4	2.5
8	1.3	1.9	6.0	3.2	1.7	6.2	5.2	1.8	2.3	11	5.7	2.4
9	2.2	1.8	53	3.2	1.6	6.0	5.2	2.2	2.0	8.9	4.7	2.3
10	2.2	1.8	77	3.3	1.7	5.6	5.1	2.1	2.0	7.9	4.3	2.2
11	2.0	1.6	25	3.4	2.0	5.8	5.0	2.0	2.0	7.4	4.1	2.0
12	1.8	1.6	19	3.2	2.1	6.5	4.9	1.9	2.0	1320	3.8	2.0
13	1.9	1.6	15	3.2	2.0	6.6	4.8	1.8	2.0	84	3.7	1.9
14	1.8	1.5	12	3.0	1.7	6.3	4.0	1.8	3.3	51	3.6	1.9
15	1.6	1.5	9.5	2.9	1.7	6.0	3.1	1.8	2.7	35	3.5	1.9
16	1.4	1.5	7.6	3.0	1.8	5.5	3.0	1.8	2.7	26	3.4	1.9
17	1.3	1.3	6.8	3.0	5.6	5.3	2.8	1.9	17	20	3.7	1.8
18	1.3	1.3	6.2	2.9	6.3	5.3	2.8	1.8	13	16	4.7	1.7
19	1.3	1.3	5.7	2.8	12	5.2	2.9	1.8	9.0	12	3.9	1.7
20	1.3	1.3	5.4	3.0	11	5.2	2.8	1.7	8.1	25	3.5	1.7
21	1.4	1.3	5.1	3.0	8.3	5.1	2.7	1.8	45	18	3.8	1.5
22	1.5	1.4	4.7	2.4	7.5	4.8	2.8	1.8	18	28	3.8	1.5
23	1.5	11	4.7	2.3	7.0	4.6	2.7	1.8	13	21	3.9	1.6
24	1.6	2.3	4.4	2.3	5.7	4.5	2.8	2.1	10	17	4.3	5.0
25	2.0	2.3	4.2	2.3	5.6	4.5	2.7	2.4	7.5	13	4.1	3.7
26	1.9	2.2	4.0	2.4	5.0	5.5	2.6	2.7	6.8	11	4.0	3.7
27	1.6	2.0	4.0	2.6	5.0	5.4	2.4	2.8	6.0	9.4	3.9	3.2
28	1.6	1.9	3.8	2.8	4.9	5.5	2.3	2.9	19	12	3.7	2.7
29	1.5	1.8	3.6	2.9	4.6	5.5	2.1	3.1	12	32	3.5	2.2
30	1.5	1.8	3.4	3.0	---	6.6	2.2	3.2	9.5	19	2.9	1.7
31	1.5	---	3.2	2.7	---	6.5	---	3.0	---	16	2.9	---
MEAN	1.60	2.09	12.0	2.97	4.16	5.78	3.85	2.19	7.72	63.2	4.75	2.41
MAX	2.2	11	77	3.5	12	8.6	6.0	3.2	45	1320	12	5.0
MIN	1.3	1.3	1.7	2.3	1.6	4.2	2.1	1.7	2.0	7.4	2.9	1.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	6.89	17.8	11.1	10.3	19.8	32.5	21.7	17.3	9.61	20.5	4.89	4.17
MAX	11.2	58.3	21.5	15.7	26.9	57.3	51.3	41.3	17.0	63.2	8.83	8.17
(WY)	1999	1997	1997	1998	1998	1998	1999	1999	1999	2000	1998	1996
MIN	1.60	1.78	5.23	2.97	4.16	5.78	3.85	2.19	5.94	2.08	2.83	1.72
(WY)	2000	1998	1999	2000	2000	2000	2000	2000	1997	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL MEAN	17.4		9.49		14.6	
HIGHEST ANNUAL MEAN					18.2	1999
LOWEST ANNUAL MEAN					9.49	2000
HIGHEST DAILY MEAN	426	May 4	1320	Jul 12	1320	Jul 12 2000
LOWEST DAILY MEAN	1.0	Sep 23	1.3	Oct 7,8,17-20,Nov 17-21	.54	Aug 30 1996
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 17	1.3	Nov 16	.68	Aug 30 1996
INSTANTANEOUS PEAK FLOW	---		Unknown	Jul 12	2340	May 4 1999
INSTANTANEOUS PEAK STAGE	---		9.80	Jul 12	9.80	Jul 12 2000
INSTANTANEOUS LOW FLOW	---		1.3	Oct 7,8,17-20,Nov 17-21	.00	Jul 15 1997
10 PERCENT EXCEEDS	33		12		30	
50 PERCENT EXCEEDS	7.8		3.1		5.6	
90 PERCENT EXCEEDS	1.5		1.6		1.7	

06918600 LITTLE SAC RIVER AT WALNUT GROVE, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°23'55", long 93°24'36", in NE $^1/_4$ SW $^1/_4$ sec.24, T.31 N., R.23 W., Greene County, Hydrologic Unit 10290106. Sampling site is on Highway BB about 7.5 mi east of Walnut Grove and 6 mi south of Morrisville.

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
OCT											
04...	1250	9.1	8.8	85	7.3	702	14.0	130	200	120	197
NOV											
03...	0910	6.2	5.4	46	8.1	736	8.1	140	180	K70	212
DEC											
02...	0855	7.2	14.3	120	7.4	578	7.7	55	120	K15	143
JAN											
11...	1245	20	13.3	110	8.5	551	6.9	K80	K18	K20	204
FEB											
16...	1515	12	13.2	114	8.3	1160	9.2	K1	K13	20	227
MAR											
22...	1130	31	10.9	98	7.9	579	11.2	26	48	32	208
APR											
11...	1015	22	8.4	82	8.0	593	14.5	47	100	32	178
MAY											
24...	0830	13	5.0	58	7.9	648	22.2	320	240	280	202
JUN											
07...	0840	12	6.6	70	7.9	697	18.8	160	100	170	203
JUL											
26...	1225	106	8.8	99	8.0	508	21.2	160	170	160	204
AUG											
15...	1030	24	5.7	68	7.7	582	24.5	K170	K130	130	219
SEP											
05...	1500	8.6	5.9	72	7.8	814	25.6	K38	170	180	222

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
OCT											
04...	197	240	0	--	--	--	--	--	--	--	--
NOV											
03...	214	262	0	230	75.4	9.01	7.5	65.7	84.9	.4	23.4
DEC											
02...	143	174	0	--	--	--	--	--	--	--	--
JAN											
11...	205	228	11	240	82.9	8.27	3.1	34.0	44.9	.2	18.5
FEB											
16...	228	269	5	--	--	--	--	--	--	--	--
MAR											
22...	210	256	0	--	--	--	--	--	--	--	--
APR											
11...	177	216	0	--	--	--	--	--	--	--	--
MAY											
24...	204	248	0	230	78.0	8.21	5.6	45.1	64.9	.2	20.6
JUN											
07...	205	250	0	--	--	--	--	--	--	--	--
JUL											
26...	204	249	0	220	78.5	6.44	2.7	16.9	25.6	<.1	13.4
AUG											
15...	222	271	0	--	--	--	--	--	--	--	--
SEP											
05...	228	278	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

06918600 LITTLE SAC RIVER AT WALNUT GROVE, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
OCT											
04...	<.020	.35	2.81	<.010	.258	.238	.248	--	--	--	--
NOV											
03...	<.020	.46	1.07	<.010	.158	.097	.151	12	<1	407	25
DEC											
02...	<.020	.33	1.35	<.010	E.040	.030	.050	--	--	--	--
JAN											
11...	<.020	.34	1.95	.010	<.050	.013	<.050	<10	2	339	E13
FEB											
16...	<.020	.56	.587	<.010	.058	.036	.075	--	--	--	--
MAR											
22...	<.020	.28	1.63	<.010	<.050	.024	E.040	--	--	--	--
APR											
11...	<.020	.44	.200	<.010	.058	.038	.083	--	--	--	--
MAY											
24...	<.020	.65	.896	.010	.235	.194	.272	40	33	378	E9
JUN											
07...	.030	.51	1.28	<.010	.420	.387	.461	--	--	--	--
JUL											
26...	<.020	.25	1.14	.028	.081	<.010	.087	37	<10	289	E15
AUG											
15...	<.020	.29	1.59	<.010	.106	.095	.123	--	--	--	--
SEP											
05...	<.020	.37	1.04	<.010	.492	.442	.502	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
03...	62	<8.0	.1	<10	30	<100	<1	22	<.3	37	E22
JAN											
11...	64	<8.0	E.1	E6	10	<100	E1	12	<.3	57	<31
MAY											
24...	496	<8.0	E.1	<10	20	<100	2	16	<.3	<20	33
JUL											
26...	114	<8.0	<.1	<10	E10	<100	E1	13	<.3	E18	<31

E--Laboratory estimated value.

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.--No estimated daily discharges. Records fair. U.S. Army Corps of Engineers 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	12	8.0	8.2	33	22	49	78	26	11	110	221	13
2	10	6.3	8.1	31	23	45	72	26	9.6	91	181	9.4
3	11	8.3	13	35	23	61	68	27	8.7	106	150	12
4	10	8.7	174	42	23	98	62	24	8.3	83	128	10
5	9.2	8.2	498	41	22	99	56	21	7.9	65	110	9.6
6	8.9	7.9	174	37	21	97	50	21	12	49	100	9.2
7	9.7	7.8	106	36	21	91	47	21	14	42	85	8.9
8	12	9.8	76	37	20	80	43	20	10	34	80	9.1
9	12	9.4	266	40	21	66	38	32	7.8	28	68	9.1
10	17	8.4	1900	39	20	59	36	59	9.0	23	58	9.6
11	19	6.9	452	38	20	62	35	55	10	20	51	8.9
12	21	8.8	257	37	20	62	34	41	11	3040	44	11
13	18	8.3	185	36	20	63	33	32	20	1320	39	11
14	15	8.9	148	34	22	65	31	26	19	455	33	13
15	15	8.2	119	33	21	63	30	23	18	292	31	12
16	13	8.0	100	33	19	57	29	23	23	214	28	11
17	11	8.3	88	33	22	51	29	22	27	171	26	10
18	9.6	9.5	78	32	41	50	27	19	82	150	23	8.8
19	9.7	8.3	69	31	84	52	27	17	68	132	20	7.6
20	8.0	7.3	61	28	78	51	28	16	51	1380	21	6.3
21	9.5	7.3	56	27	70	48	25	16	336	552	19	5.9
22	10	8.4	53	27	64	46	24	15	275	759	22	6.8
23	9.6	18	48	27	60	48	24	13	155	668	19	8.9
24	8.3	38	44	26	55	50	25	12	102	354	17	13
25	7.7	24	41	25	52	47	24	20	73	256	15	16
26	8.2	16	40	24	61	45	23	19	72	195	14	23
27	8.1	12	39	24	64	48	22	23	62	174	12	19
28	6.8	9.9	37	24	57	54	21	21	67	155	13	16
29	8.3	9.0	36	25	53	48	19	17	189	377	11	15
30	7.5	8.4	35	25	---	65	19	15	138	428	11	13
31	8.4	---	34	24	---	85	---	12	---	286	13	---
MEAN	11.1	10.5	169	31.7	37.9	61.5	36.0	23.7	63.2	387	53.6	11.2
MAX	21	38	1900	42	84	99	78	59	336	3040	221	23
MIN	6.8	6.3	8.1	24	19	45	19	12	7.8	20	11	5.9
IN.	.05	.05	.82	.15	.17	.30	.17	.12	.30	1.88	.26	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2000, BY WATER YEAR (WY)

MEAN	127	322	288	233	279	463	418	331	202	86.2	36.5	127
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1969 - 2000	
ANNUAL MEAN	266		75.4		242	
HIGHEST ANNUAL MEAN					516	1973
LOWEST ANNUAL MEAN					58.6	1977
HIGHEST DAILY MEAN	4360	May 4	3040	Jul 12	18600	Sep 25 1993
LOWEST DAILY MEAN	6.3	Nov 2	5.9	Sep 21	.60	Sep 15 1980
ANNUAL SEVEN-DAY MINIMUM	7.6	Oct 27	7.6	Oct 27	1.6	Aug 27 1980
INSTANTANEOUS PEAK FLOW	---		6230	Jul 12	29100	Sep 25 1993
INSTANTANEOUS PEAK STAGE	---		12.85	Jul 12	23.33	Sep 25 1993
INSTANTANEOUS LOW FLOW	---		5.0	Sep 20,21	.30	Sep 15 1980
ANNUAL RUNOFF (INCHES)	15.23		4.33		13.89	
10 PERCENT EXCEEDS	627		134		527	
50 PERCENT EXCEEDS	107		26		83	
90 PERCENT EXCEEDS	8.4		8.7		12	

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, 891,000 ac-ft, Oct. 1, elevation, 867.66 ft; minimum, 749,000 ac-ft, Sept. 30, elevation, 861.67 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	867.66	866.64	865.57	866.14	864.30	864.21	865.42	865.05	864.99	865.85	866.49	863.39
2	867.64	866.66	865.56	866.13	864.16	864.17	865.49	865.06	865.01	865.99	866.38	863.22
3	867.60	866.65	865.69	866.15	864.04	864.23	865.50	865.07	865.01	865.98	866.34	863.20
4	867.52	866.64	865.90	866.17	863.96	864.27	865.53	865.07	864.96	866.05	866.28	863.19
5	867.48	866.62	866.01	866.15	863.82	864.31	865.54	865.03	864.97	865.94	866.31	863.16
6	867.47	866.61	865.95	866.04	863.75	864.36	865.57	865.05	864.96	865.86	866.21	863.08
7	867.46	866.61	865.93	866.00	863.70	864.43	865.50	864.98	864.94	865.83	866.18	862.97
8	867.42	866.56	865.94	866.04	863.70	864.44	865.58	864.84	864.92	865.79	866.10	862.83
9	867.45	866.48	866.07	866.06	863.70	864.46	865.59	865.01	864.92	865.69	866.00	862.83
10	867.45	866.47	866.37	866.03	863.68	864.50	865.56	865.05	864.89	865.54	865.88	862.67
11	867.44	866.41	866.49	865.95	863.66	864.59	865.49	865.10	864.93	865.41	865.77	862.58
12	867.43	866.36	866.52	865.94	863.66	864.62	865.50	865.06	864.94	865.56	865.62	862.54
13	867.33	866.31	866.44	865.87	863.60	864.68	865.50	865.06	864.94	865.59	865.62	862.41
14	867.29	866.28	866.43	865.74	863.61	864.78	865.53	865.06	864.98	865.50	865.54	862.32
15	867.24	866.22	866.45	865.72	863.58	864.77	865.53	865.11	864.96	865.46	865.43	862.26
16	867.24	866.16	866.34	865.72	863.58	864.84	865.48	865.11	864.86	865.41	865.32	862.25
17	867.22	866.07	866.30	865.67	863.58	864.88	865.24	865.10	864.88	865.45	865.17	862.16
18	867.13	865.97	866.26	865.54	863.66	864.94	865.15	865.09	864.88	865.44	865.22	862.06
19	867.12	865.96	866.23	865.46	863.70	864.98	865.08	865.09	865.00	865.41	865.21	861.87
20	867.02	865.95	866.12	865.40	863.73	865.02	865.05	865.09	865.15	865.65	865.13	861.83
21	867.02	865.87	866.13	865.34	863.72	865.06	865.05	865.11	865.22	865.68	865.02	861.82
22	867.01	865.92	866.14	865.35	863.70	865.10	865.06	865.05	865.23	866.05	864.91	861.78
23	866.97	865.96	866.14	865.33	863.75	865.16	865.08	864.96	865.22	866.26	864.78	861.84
24	866.95	865.91	866.14	865.21	863.75	865.16	865.10	864.99	865.24	866.38	864.58	861.86
25	866.94	865.91	866.16	865.09	863.99	865.18	865.07	864.98	865.23	866.42	864.45	861.88
26	866.93	865.89	866.15	864.97	864.08	865.22	865.03	865.05	865.33	866.41	864.32	861.88
27	866.92	865.87	866.14	864.88	864.14	865.26	865.03	865.06	865.32	866.52	864.12	861.85
28	866.81	865.84	866.16	864.88	864.16	865.26	865.03	865.05	865.36	866.45	863.91	861.72
29	866.72	865.78	866.13	864.75	864.18	865.33	865.00	865.05	865.42	866.48	863.76	861.68
30	866.76	865.65	866.11	864.67	---	865.36	865.01	865.04	865.47	866.60	863.58	861.67
31	866.73	---	866.13	864.50	---	865.40	---	865.03	---	866.58	863.46	---
MEAN	867.21	866.21	866.13	865.58	863.82	864.81	865.31	865.05	865.07	865.91	865.26	862.36
MAX	867.66	866.66	866.52	866.17	864.30	865.40	865.59	865.11	865.47	866.60	866.49	863.39
MIN	866.72	865.65	865.56	864.50	863.58	864.17	865.00	864.84	864.86	865.41	863.46	861.67
(-)	868000	842000	854000	815000	807000	836000	827000	827000	838000	865000	791000	749000
(=)	-23000	-26000	+12000	-39000	-8000	+29000	-9000	0	+11000	+27000	-74000	-42000

CAL YR 1999.... -21000
WTR YR 2000....-142000

(-) 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.--No estimated daily discharges. Records good. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	78	569	87	2340	143	145	103	84	133	1900	939
2	82	76	79	86	1510	612	142	103	85	101	1440	1440
3	704	75	79	590	1660	295	138	101	85	1080	1170	341
4	229	74	116	100	980	153	134	99	86	166	1350	92
5	494	74	134	507	1340	144	130	428	86	1420	276	89
6	80	75	840	563	648	129	127	188	86	1190	930	686
7	79	79	877	607	811	103	125	640	86	828	738	907
8	79	396	250	90	104	99	120	1460	85	597	962	1090
9	78	755	480	84	97	94	115	1070	84	1020	1250	288
10	78	270	295	83	96	91	395	216	83	2430	1440	1110
11	540	434	165	910	517	98	793	152	84	1360	1240	1950
12	797	563	604	336	95	101	434	471	85	1060	1650	209
13	353	606	1310	596	262	115	111	146	86	1600	270	1200
14	551	238	853	1830	313	141	109	93	92	1490	743	634
15	340	466	624	250	108	196	108	90	351	943	1180	587
16	80	607	1090	93	94	197	210	88	1080	683	1230	130
17	298	931	596	441	464	177	2690	88	186	245	1140	593
18	393	948	870	1440	467	167	1420	89	92	91	335	672
19	624	267	106	822	156	218	1070	87	98	548	91	1540
20	291	84	1280	663	137	207	545	86	135	270	445	515
21	76	426	531	1120	580	186	109	87	404	560	815	89
22	74	344	94	100	394	181	104	696	538	139	1570	85
23	73	93	91	90	316	164	105	929	834	99	1380	91
24	73	663	90	1350	107	157	107	271	259	119	1640	91
25	73	87	89	1010	183	152	322	88	108	101	1700	90
26	74	78	89	1120	697	147	566	97	131	1040	1460	86
27	937	76	88	1560	266	146	105	93	523	1200	1750	84
28	1200	76	88	101	721	143	99	89	588	1620	2090	1130
29	280	422	532	1520	178	141	207	86	594	286	1850	524
30	78	1620	101	956	---	145	357	86	94	88	1770	93
31	77	---	88	1250	---	145	---	85	---	604	1120	---
MEAN	299	366	423	657	539	167	371	271	240	746	1191	579
MAX	1200	1620	1310	1830	2340	612	2690	1460	1080	2430	2090	1950
MIN	73	74	79	83	94	91	99	85	83	88	91	84
IN.	.27	.32	.38	.59	.45	.15	.32	.24	.21	.67	1.06	.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000, BY WATER YEAR (WY)

MEAN	659	875	1228	1232	1175	1522	1801	1680	1568	1160	922	819
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	113	186	121	71.6	80.4
(WY)	1974	1981	1981	1981	1981	1977	1981	1977	1991	1977	1991	1991

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1974 - 2000	
ANNUAL MEAN	1331		488		1220	
HIGHEST ANNUAL MEAN					2450	1994
LOWEST ANNUAL MEAN					256	1977
HIGHEST DAILY MEAN	4910	Jun 4	2690	Apr 17	12800	Sep 25 1993
LOWEST DAILY MEAN	55	Sep 9	73	Oct 23-25	25	Mar 25 1977
ANNUAL SEVEN-DAY MINIMUM	60	Sep 7	76	Oct 31	33	Oct 20 1973
INSTANTANEOUS PEAK FLOW	---		5860	Aug 28	14800	Oct 1 1986
INSTANTANEOUS PEAK STAGE	---		17.35	Aug 28	24.91	Feb 23 1985
INSTANTANEOUS LOW FLOW	---		73	Oct 22-26,Nov 5,11	24	Mar 25 1977
ANNUAL RUNOFF (INCHES)	13.99		5.15		12.83	
10 PERCENT EXCEEDS	3090		1320		3220	
50 PERCENT EXCEEDS	790		248		604	
90 PERCENT EXCEEDS	75		85		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.--Estimated daily discharges: Feb. 1, 2, July 21-25, and Aug. 4-7. Records good except for 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	.56	4.8	14	12	185	255	37	23	506	85	.19
2	3.0	.60	4.5	13	10	149	200	37	21	755	68	.16
3	2.8	.60	5.8	13	8.5	145	167	36	19	357	56	.13
4	2.3	.65	29	13	8.2	165	144	35	16	471	48	.10
5	2.0	.63	81	13	8.1	192	125	32	13	241	40	.06
6	1.8	.60	440	12	8.1	180	112	31	12	152	32	.02
7	2.0	.52	161	12	7.8	151	101	35	10	115	24	.00
8	2.3	.50	77	14	7.6	130	89	35	8.8	90	21	.00
9	2.4	.50	87	16	7.7	112	80	201	7.6	70	19	.00
10	2.2	.50	233	17	7.7	99	73	885	6.8	56	15	.00
11	1.9	.46	518	15	7.2	102	68	578	6.8	46	13	.00
12	2.0	.49	275	15	7.1	110	62	253	6.7	38	11	.03
13	1.8	.56	144	15	7.6	163	58	158	6.3	32	9.3	.05
14	1.9	.75	100	16	7.4	476	54	111	8.1	27	7.9	.07
15	2.0	.79	75	15	7.1	743	51	85	9.7	23	6.8	.06
16	1.8	.79	59	14	6.7	644	50	71	53	21	6.0	.06
17	1.5	.75	49	13	11	580	47	62	244	19	5.3	.04
18	1.3	.73	42	13	170	455	44	54	259	21	4.2	.03
19	1.2	.73	37	13	199	623	42	45	152	20	3.5	.04
20	1.1	.73	33	12	294	1010	81	39	113	20	2.8	.02
21	1.1	.73	29	11	194	658	77	35	1730	20	2.3	.00
22	1.0	1.1	26	11	144	441	56	33	1620	70	1.8	.00
23	.90	4.9	24	10	118	339	57	29	452	600	1.5	.12
24	.84	8.0	23	10	99	291	86	26	231	350	1.3	.21
25	.84	7.7	20	9.7	230	262	63	23	153	210	1.1	.39
26	.77	7.6	19	9.3	673	230	53	25	669	141	.93	.43
27	.71	7.4	17	8.9	681	213	47	33	635	114	.73	.41
28	.61	5.7	16	9.0	361	205	42	36	314	114	.60	.35
29	.60	4.8	16	9.6	242	195	38	43	979	158	.46	.31
30	.56	4.8	15	10	---	180	34	37	589	177	.29	.28
31	.61	---	15	9.8	---	236	---	29	---	114	.25	---
MEAN	1.58	2.17	86.3	12.5	122	312	81.9	102	279	166	15.8	.12
MAX	3.1	8.0	518	17	681	1010	255	885	1730	755	85	.43
MIN	.56	.46	4.5	8.9	6.7	99	34	23	6.3	19	.25	.00
IN.	.00	.01	.24	.03	.31	.86	.22	.28	.74	.46	.04	.00

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

MEAN	198	350	294	264	396	575	552	514	368	237	81.4	178
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	485		98.4		333	
HIGHEST ANNUAL MEAN					807	1993
LOWEST ANNUAL MEAN					16.0	1954
HIGHEST DAILY MEAN	10700	Jun 29	1730	Jun 21	26200	Jul 17 1958
LOWEST DAILY MEAN	.46	Nov 11	.00	Sep 7-11,21,22	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	.50	Nov 7	.01	Sep 6	.00	Many Years
INSTANTANEOUS PEAK FLOW	---		2840	Jun 21	37000	Jul 17 1958
INSTANTANEOUS PEAK STAGE	---		11.80	Jun 21	27.36	Apr 12 1994
INSTANTANEOUS LOW FLOW	---		.00	Sep 6-12,20-22	.00	Many Years
ANNUAL RUNOFF (INCHES)	15.69		3.19		10.77	
10 PERCENT EXCEEDS	1150		256		672	
50 PERCENT EXCEEDS	115		19		73	
90 PERCENT EXCEEDS	1.4		.50		1.2	

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.--Estimated daily discharges: Sept. 9-12. Records good except for estimated daily discharges, which are poor. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	92	778	130	2280	450	494	188	118	583	1590	1050
2	104	88	201	128	1770	408	430	170	117	1080	1260	1030
3	517	87	112	513	1710	1050	382	167	115	1040	1400	1260
4	300	86	219	342	1380	429	345	160	110	1040	1270	164
5	618	86	376	518	1000	433	315	162	108	758	1030	104
6	132	84	585	627	805	414	292	634	105	1450	229	167
7	102	88	1430	690	1220	344	276	187	103	1260	1110	918
8	98	88	749	248	228	305	253	1240	101	816	760	1010
9	100	598	347	135	132	269	236	2070	98	656	1060	350
10	98	749	962	131	125	246	225	1440	94	2130	1540	230
11	96	103	768	664	522	263	930	966	100	1350	1130	1800
12	782	600	891	712	231	277	942	601	101	1380	1440	230
13	846	617	905	147	118	349	225	728	99	1240	1050	327
14	123	593	1320	1760	569	657	200	296	118	1450	227	1070
15	818	108	847	847	137	1150	193	246	115	1200	898	588
16	121	665	1120	151	131	1110	190	222	812	868	1200	486
17	100	617	791	136	134	967	1900	206	862	668	1140	213
18	629	1160	1170	1250	1190	798	1700	192	396	148	1020	486
19	122	722	370	1090	461	964	1360	177	292	129	128	926
20	832	119	500	611	534	1370	1280	168	294	719	105	1400
21	116	103	1400	1430	780	1060	254	164	1750	303	608	215
22	94	701	178	296	496	781	207	315	2040	540	1380	122
23	89	155	153	133	798	654	225	816	1220	1370	1430	114
24	89	569	147	1110	281	572	287	972	1000	978	950	108
25	88	245	142	802	464	527	230	147	325	406	1840	107
26	87	104	138	1010	1480	490	943	152	999	401	1450	103
27	339	96	136	1930	1140	491	296	159	1090	1290	1260	100
28	1330	93	134	334	1220	453	181	144	868	1530	1920	549
29	741	93	404	720	634	426	168	145	1690	1130	1900	779
30	113	1680	339	1610	---	415	602	139	845	323	1590	292
31	95	---	136	710	---	442	---	129	---	231	1490	---
MEAN	317	373	573	675	758	599	519	436	536	918	1142	543
MAX	1330	1680	1430	1930	2280	1370	1900	2070	2040	2130	1920	1800
MIN	87	84	112	128	118	246	168	129	94	129	105	100
IN.	.20	.23	.36	.43	.45	.38	.32	.28	.33	.59	.73	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2000, BY WATER YEAR (WY)

MEAN	1275	1511	1749	1533	1751	2307	2542	2474	2068	1408	1013	1038
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	1981	1991	1988	1991	1991

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1975 - 2000	
ANNUAL MEAN	1955		616		1721	
HIGHEST ANNUAL MEAN					3267	1994
LOWEST ANNUAL MEAN					399	1977
HIGHEST DAILY MEAN	17000	May 5	2280	Feb 1	51200	Oct 2 1986
LOWEST DAILY MEAN	34	Aug 25	84	Nov 6	34	Aug 25 1999
ANNUAL SEVEN-DAY MINIMUM	62	Aug 20	87	Nov 2	47	Oct 7 1980
INSTANTANEOUS PEAK FLOW	---		4090	Aug 28	61500	Apr 12 1994
INSTANTANEOUS PEAK STAGE	---		12.26	Aug 28	30.95	Apr 12 1994
INSTANTANEOUS LOW FLOW	---		80	Nov 6	33	Aug 24 1999
ANNUAL RUNOFF (INCHES)	14.67		4.64		12.92	
10 PERCENT EXCEEDS	4900		1380		4160	
50 PERCENT EXCEEDS	1110		462		1000	
90 PERCENT EXCEEDS	94		104		93	

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.--No estimated daily discharge. Water-discharge records fair. U.S. Army Corps of Engineers 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	5.4	10	8.2	38	28	75	99	30	12	24	129	6.0
2	6.3	9.5	7.7	37	28	69	97	31	11	25	100	5.7
3	7.1	9.8	13	40	27	82	90	31	10	26	82	5.4
4	7.1	9.6	153	45	27	115	82	29	10	29	69	5.0
5	7.1	9.6	678	50	27	136	73	27	9.7	23	59	4.8
6	7.0	9.3	227	47	27	125	66	26	8.9	19	51	4.6
7	7.6	9.2	95	44	26	110	62	26	8.4	15	44	4.6
8	9.8	9.0	56	44	26	98	58	26	7.7	12	41	3.7
9	12	8.5	347	46	25	87	54	26	7.1	11	37	3.5
10	12	8.4	2270	49	25	78	49	47	7.6	9.1	32	3.6
11	12	8.3	597	49	24	87	47	47	10	8.2	29	3.6
12	12	8.2	342	48	24	89	46	37	11	9260	26	4.1
13	13	8.1	235	46	24	119	44	30	11	1140	23	4.9
14	14	7.9	178	43	24	127	41	26	14	412	21	4.4
15	13	7.7	144	41	24	126	40	23	14	263	19	3.7
16	12	7.6	117	39	23	115	41	22	13	180	18	3.5
17	11	7.5	101	38	29	101	41	21	17	129	16	4.2
18	10	7.6	91	38	90	93	40	20	21	103	16	4.4
19	9.9	7.5	82	38	223	106	37	18	28	86	14	4.1
20	9.2	7.6	75	36	193	108	38	17	51	114	13	3.4
21	10	7.7	67	35	152	100	37	16	185	430	12	3.4
22	11	8.8	61	34	127	90	35	16	196	227	11	3.1
23	11	16	57	33	110	83	35	16	121	246	11	3.4
24	11	17	54	32	95	78	36	15	75	161	10	5.7
25	10	20	50	31	90	73	35	16	53	114	8.8	7.0
26	10	17	48	30	103	73	33	16	47	90	8.2	7.4
27	9.9	14	46	29	97	78	30	16	40	82	8.0	8.7
28	9.9	11	45	29	89	73	30	15	33	75	7.7	8.5
29	8.8	10	43	30	82	73	28	15	30	191	7.2	7.5
30	9.0	8.9	42	29	---	88	27	14	26	263	6.8	7.0
31	9.7	---	40	29	---	99	---	13	---	178	6.4	---
MEAN	9.93	10.0	205	38.6	65.1	95.3	49.0	23.5	36.3	450	30.2	4.96
MAX	14	20	2270	50	223	136	99	47	196	9260	129	8.7
MIN	5.4	7.5	7.7	29	23	69	27	13	7.1	8.2	6.4	3.1
IN.	.04	.04	.86	.16	.25	.40	.20	.10	.15	1.88	.13	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2000, BY WATER YEAR (WY)

MEAN	156	372	337	275	333	542	536	389	229	88.1	41.2	162
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1969 - 2000	
ANNUAL MEAN	316		85.6		288	
HIGHEST ANNUAL MEAN					554	1993
LOWEST ANNUAL MEAN					85.6	2000
HIGHEST DAILY MEAN	6300	May 5	9260	Jul 12	24300	Sep 25 1993
LOWEST DAILY MEAN	3.5	Sep 27	3.1	Sep 22	.30	Aug 10 1980
ANNUAL SEVEN-DAY MINIMUM	4.7	Sep 12	3.7	Sep 17	.34	Aug 9 1980
INSTANTANEOUS PEAK FLOW	---		14300	Jul 12	34300	Sep 24 1993
INSTANTANEOUS PEAK STAGE	---		18.02	Jul 12	27.10	Sep 24 1993
INSTANTANEOUS LOW FLOW	---		2.9	Sep 22,23	.30	Aug 10 1980
ANNUAL RUNOFF (INCHES)	15.54		4.22		14.16	
10 PERCENT EXCEEDS	646		118		582	
50 PERCENT EXCEEDS	95		28		88	
90 PERCENT EXCEEDS	6.7		7.3		10	

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
03...	1115	9.7	6.7	60	8.2	433	10.4	K23	K33	50	224
JAN											
11...	1435	50	12.6	102	8.8	393	6.1	K30	K8	K4	179
MAR											
22...	1345	89	12.0	110	8.3	413	12.1	61	K83	41	188
MAY											
22...	1055	16	6.6	71	7.8	436	19.0	84	59	51	220
JUL											
24...	1055	159	7.4	84	7.9	374	22.1	270	400	210	168
SEP											
05...	1330	4.9	4.9	59	7.7	439	25.2	42	120	65	209

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
03...	225	275	0	240	43.4	31.6	2.7	5.2	6.9	<.1	7.2
JAN											
11...	177	188	13	--	--	--	--	--	--	--	--
MAR											
22...	190	219	6	--	--	--	--	--	--	--	--
MAY											
22...	219	267	0	220	42.4	27.9	3.3	5.7	11.3	<.1	7.9
JUL											
24...	169	206	0	--	--	--	--	--	--	--	--
SEP											
05...	212	259	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV											
03...	<.020	.31	<.050	<.010	.058	.026	.079	11	7	239	23
JAN											
11...	.021	.17	<.050	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
22...	<.020	.22	<.050	<.010	<.050	<.010	<.050	--	--	--	--
MAY											
22...	.060	.41	.128	.014	<.050	.033	.050	<10	<10	241	<15
JUL											
24...	<.020	.45	.815	<.010	.120	.087	.125	--	--	--	--
SEP											
05...	.020	.33	.063	<.010	E.049	.036	.076	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
03...	85	<8.0	<.1	<10	50	<100	<1	36	<.3	93	<31
MAY											
22...	153	<8.0	<.1	<10	E10	<100	<1	28	<.3	<20	E16

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.--Estimated daily discharges: Oct. 17 to Nov. 6 and Nov. 9-12. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.01	.29	7.5	7.3	42	56	13	.08	.37	3.5	.00
2	.06	.01	.25	7.1	6.6	38	53	13	.06	.37	1.6	.00
3	.06	.01	1.1	9.6	5.8	55	48	11	.05	3.7	.97	.00
4	.05	.01	99	16	6.5	64	42	8.9	.05	1.6	.78	.00
5	.05	.01	199	17	6.4	55	38	7.5	.05	.69	.60	.00
6	.06	.01	54	14	6.1	50	35	6.6	.04	.30	.45	.00
7	.06	.11	30	12	5.6	46	32	7.5	.04	.15	.35	.00
8	.08	.90	19	12	5.2	43	27	7.0	.04	.09	.29	.00
9	.16	.70	242	16	5.2	38	23	13	.04	.07	.24	.00
10	1.6	.50	506	20	5.3	34	22	40	.04	.06	.18	.00
11	1.5	.30	123	19	5.2	44	21	20	.04	.06	.17	.00
12	.79	.60	80	17	4.9	53	19	11	.04	577	.15	.00
13	.32	.90	62	15	5.0	108	17	6.6	.04	81	.10	.00
14	.14	1.1	51	13	5.0	127	16	4.2	.05	27	.07	.00
15	.09	.73	43	12	4.9	108	15	3.0	.05	12	.05	.00
16	.08	.53	34	12	4.6	87	16	2.6	.05	6.2	.02	.00
17	.07	.40	30	11	8.9	73	16	2.4	.69	4.2	.01	.00
18	.06	.31	27	11	177	68	13	1.9	5.1	2.7	.00	.00
19	.06	.25	24	11	128	98	13	1.3	4.3	2.3	.00	.00
20	.05	.22	21	11	89	87	14	1.0	2.4	2.7	.00	.00
21	.05	.22	18	9.5	73	74	13	.87	45	2.6	.00	.00
22	.04	.22	15	9.4	64	65	11	.84	27	2.6	.00	.00
23	.04	1.2	14	9.3	56	60	12	.71	4.7	2.3	.00	.00
24	.03	4.3	13	8.9	49	56	20	.57	1.9	1.8	.00	.00
25	.03	2.5	11	8.2	46	51	19	.48	.88	1.5	.00	.00
26	.03	1.3	11	7.7	69	50	13	.52	1.1	1.2	.00	.00
27	.02	.87	10	7.1	59	76	9.6	.58	1.6	1.0	.00	.00
28	.02	.66	9.7	7.7	50	63	10	.49	1.3	.90	.00	.00
29	.02	.48	9.4	8.1	46	56	10	.37	.68	2.0	.00	.00
30	.02	.36	9.0	8.1	---	65	10	.23	.43	9.4	.00	.00
31	.02	---	8.1	7.6	---	64	---	.12	---	9.7	.00	---
MEAN	.18	.66	57.2	11.4	34.6	64.5	22.1	6.04	3.26	24.4	.31	.000
MAX	1.6	4.3	506	20	177	127	56	40	45	577	3.5	.00
MIN	.02	.01	.25	7.1	4.6	34	9.6	.12	.04	.06	.00	.00
IN.	.00	.01	.59	.12	.33	.66	.22	.06	.03	.25	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2000, BY WATER YEAR (WY)

MEAN	81.1	111	118	98.1	127	195	185	160	78.1	35.3	14.4	55.8
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1957 - 2000	
ANNUAL MEAN	126		18.8		104	
HIGHEST ANNUAL MEAN					247	1993
LOWEST ANNUAL MEAN					18.8	2000
HIGHEST DAILY MEAN	3990	May 4	577	Jul 12	12000	Oct 1 1986
LOWEST DAILY MEAN	.01	Nov 1-6	.00	Aug 18-Sept 30	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	.01	Oct 31	.00	Aug 18	.00	Many Years
INSTANTANEOUS PEAK FLOW	---		2490	Jul 12	31900	Oct 1 1986
INSTANTANEOUS PEAK STAGE	---		10.00	Jul 12	23.60	May 5 1961
INSTANTANEOUS LOW FLOW	---		.00	Aug 17-Sept 30	.00	Many Years
ANNUAL RUNOFF (INCHES)	15.25		2.28		12.67	
10 PERCENT EXCEEDS	250		55		185	
50 PERCENT EXCEEDS	32		2.6		25	
90 PERCENT EXCEEDS	.09		.00		.44	

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, 278,000 ac-ft, July 13, elevation 843.91 ft; minimum, 218,000 ac-ft, Dec. 2, elevation, 836.48 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	837.67	837.02	836.51	839.15	839.20	840.57	841.07	840.76	840.57	840.68	841.31	840.15
2	837.64	836.97	836.48	839.15	839.19	840.60	841.07	840.75	840.56	840.67	841.21	840.11
3	837.61	836.96	836.54	839.15	839.19	840.66	841.08	840.73	840.56	840.70	841.09	840.08
4	837.59	836.94	836.62	839.19	839.17	840.73	841.07	840.72	840.54	840.69	841.06	840.04
5	837.57	836.90	836.84	839.19	839.18	840.79	841.05	840.71	840.50	840.68	841.02	840.01
6	837.55	836.93	837.10	839.19	839.18	840.85	841.02	840.68	840.47	840.67	840.99	839.98
7	837.51	836.88	837.18	839.19	839.17	840.90	841.00	840.70	840.44	840.65	840.97	839.94
8	837.52	836.86	837.20	839.19	839.15	840.95	840.98	840.69	840.42	840.64	840.91	839.90
9	837.51	836.86	837.25	839.21	839.16	840.98	840.97	840.76	840.40	840.61	840.90	839.86
10	837.52	836.82	837.72	839.23	839.16	840.98	840.97	840.86	840.38	840.60	840.89	839.81
11	837.50	836.81	838.39	839.22	839.15	841.06	840.95	840.87	840.37	840.56	840.83	839.78
12	837.48	836.80	838.77	839.23	839.15	841.11	840.94	840.85	840.40	841.12	840.67	839.80
13	837.45	836.77	838.90	839.23	839.14	841.15	840.94	840.86	840.39	843.91	840.66	839.77
14	837.43	836.75	838.96	839.25	839.15	841.25	840.93	840.84	840.38	843.91	840.77	839.71
15	837.41	836.73	839.02	839.24	839.14	841.42	840.92	840.82	840.40	843.76	840.77	839.66
16	837.38	836.71	839.04	839.23	839.13	841.53	840.91	840.79	840.37	843.58	840.74	839.63
17	837.35	836.69	839.06	839.23	839.12	841.46	840.90	840.76	840.42	843.34	840.73	839.56
18	837.34	836.67	839.09	839.23	839.29	841.29	840.89	840.76	840.42	843.20	840.75	839.53
19	837.32	836.64	839.11	839.24	839.45	841.17	840.86	840.72	840.40	842.97	840.73	839.49
20	837.29	836.62	839.13	839.24	839.58	841.05	840.88	840.71	840.42	842.72	840.71	839.42
21	837.26	836.60	839.13	839.23	839.67	840.98	840.84	840.70	840.49	842.59	840.69	839.39
22	837.23	836.57	839.14	839.22	839.74	840.98	840.84	840.69	840.52	842.42	840.65	839.34
23	837.19	836.65	839.14	839.22	839.80	840.99	840.81	840.68	840.55	842.22	840.62	839.34
24	837.19	836.64	839.13	839.22	839.84	841.00	840.84	840.67	840.58	842.01	840.58	839.37
25	837.15	836.62	839.15	839.19	839.87	841.00	840.84	840.65	840.59	841.89	840.54	839.37
26	837.13	836.60	839.15	839.21	840.30	841.00	840.84	840.65	840.70	841.78	840.53	839.36
27	837.11	836.59	839.15	839.20	840.43	841.04	840.82	840.67	840.69	841.69	840.47	839.32
28	837.11	836.56	839.16	839.21	840.50	841.03	840.80	840.66	840.70	841.60	840.37	839.28
29	837.07	836.55	839.15	839.21	840.54	841.04	840.78	840.64	840.69	841.57	840.26	839.25
30	837.08	836.54	839.14	839.21	---	841.07	840.77	840.61	840.68	841.50	840.23	839.22
31	837.04	---	839.15	839.21	---	841.07	---	840.60	---	841.41	840.18	---
MEAN	837.36	836.74	838.37	839.21	839.47	841.02	840.92	840.73	840.50	841.82	840.74	839.65
MAX	837.67	837.02	839.16	839.25	840.54	841.53	841.08	840.87	840.70	843.91	841.31	840.15
MIN	837.04	836.54	836.48	839.15	839.12	840.57	840.77	840.60	840.37	840.56	840.18	839.22
(-)	222000	219000	238000	239000	250000	254000	251000	250000	251000	257000	247000	239000
(=)	-5000	-3000	+19000	+1000	+11000	+4000	-3000	-1000	+1000	+6000	-10000	-8000

CAL YR 1999.... 0
WTR YR 2000....+12000

(-) 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.--No estimated daily discharges. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	53	50	51	49	48	224	113	58	55	527	104
2	53	54	50	51	48	48	224	110	58	55	527	104
3	53	54	51	51	48	49	226	110	58	55	296	104
4	53	53	52	51	48	48	226	112	58	54	110	104
5	53	53	51	51	48	49	226	111	58	54	111	104
6	52	52	50	51	48	49	227	111	58	54	111	105
7	52	52	50	51	48	49	181	110	57	54	113	104
8	52	52	50	51	48	49	116	110	57	54	114	104
9	52	52	52	51	47	50	119	117	57	54	115	105
10	52	52	52	51	47	50	122	109	57	54	116	106
11	51	52	50	51	47	51	124	109	57	54	117	105
12	52	52	50	51	47	52	125	109	57	86	118	106
13	52	52	50	51	47	53	125	108	56	573	120	105
14	52	52	51	51	47	54	126	107	57	1020	111	106
15	52	51	52	51	47	54	126	107	56	1020	104	106
16	53	51	51	51	47	469	125	107	57	1020	104	105
17	53	51	51	51	48	971	123	107	57	1020	104	105
18	53	51	51	51	53	969	123	107	57	1020	105	105
19	52	51	51	51	48	969	122	83	56	1010	104	105
20	52	51	51	51	48	729	120	61	56	1010	104	106
21	52	50	51	51	48	361	119	62	56	1010	104	105
22	52	50	51	51	48	223	119	61	55	1010	104	105
23	52	51	51	51	48	223	117	61	54	1010	104	106
24	51	51	51	51	48	224	115	61	55	781	105	106
25	52	51	51	51	62	223	116	61	54	526	105	106
26	53	51	51	51	50	223	116	60	57	526	105	106
27	53	51	51	51	48	224	115	60	55	527	105	105
28	52	51	51	51	48	223	115	60	55	527	105	88
29	52	51	51	50	48	223	114	60	55	531	105	58
30	53	50	51	50	---	224	113	59	55	527	104	57
31	53	---	51	49	---	224	---	59	---	527	104	---
MEAN	52.3	51.6	50.9	50.9	48.5	240	143	89.7	56.4	512	141	101
MAX	53	54	52	51	62	971	227	117	58	1020	527	106
MIN	51	50	50	49	47	48	113	59	54	54	104	57
IN.	.10	.09	.10	.10	.09	.45	.26	.17	.10	.96	.26	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2000, BY WATER YEAR (WY)

MEAN	332	570	646	517	574	869	871	891	591	353	111	137
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1960 - 2000	
ANNUAL MEAN	619		129		538	
HIGHEST ANNUAL MEAN					1163	1973
LOWEST ANNUAL MEAN					67.8	1963
HIGHEST DAILY MEAN	2520	Apr 17	1020	Jul 14	9000	May 9 1961
LOWEST DAILY MEAN	48	Jul 25	47	Feb 9-16	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	49	Jul 24	47	Feb 9	.00	At Times
INSTANTANEOUS PEAK FLOW	---		1020	Jul 16,18	5910	May 5 1970
INSTANTANEOUS PEAK STAGE	---		5.47	Jul 16,18	12.15	May 5 1970
INSTANTANEOUS LOW FLOW	---		47	Feb 2,6-17,20-23,29	.00	Several Years
ANNUAL RUNOFF (INCHES)	13.67		2.86		11.89	
10 PERCENT EXCEEDS	2050		224		1940	
50 PERCENT EXCEEDS	231		55		104	
90 PERCENT EXCEEDS	51		50		44	

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.--No estimated daily discharges. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	938	48	84	116	71	522	350	59	328	697	158	15
2	467	42	81	116	69	414	312	56	240	566	134	14
3	524	52	77	121	68	351	282	55	189	474	112	13
4	616	50	85	117	66	306	251	61	152	562	93	13
5	532	50	369	119	66	278	217	59	122	534	74	14
6	387	51	739	115	67	257	187	54	103	393	66	13
7	288	46	802	109	68	218	149	47	89	287	63	12
8	229	48	562	108	66	200	133	45	77	222	61	11
9	185	53	476	107	66	168	129	57	70	185	51	11
10	154	48	1840	106	68	164	113	76	55	158	45	11
11	133	51	2050	103	69	161	99	119	47	132	40	11
12	117	52	1130	104	69	168	98	114	52	110	40	13
13	100	52	674	100	68	171	93	94	147	94	44	12
14	89	54	472	100	64	185	89	80	261	83	38	12
15	71	52	352	96	65	193	86	66	2050	69	30	11
16	57	53	309	94	62	519	82	57	2460	64	24	11
17	52	55	274	99	65	2550	82	51	3020	62	22	10
18	52	60	241	103	453	2060	87	49	2520	58	17	9.9
19	53	54	219	105	3820	1410	85	39	1260	93	18	10
20	52	57	200	91	3210	1360	77	38	750	85	18	11
21	52	59	181	88	1680	1470	76	37	3370	72	16	11
22	47	61	167	85	1010	1180	87	36	11200	64	15	13
23	44	67	154	82	693	859	94	39	8620	57	15	17
24	46	103	141	81	576	681	94	39	2900	57	16	17
25	47	163	135	78	671	614	90	41	1400	60	15	16
26	49	144	130	78	1130	588	88	59	1850	62	16	15
27	50	123	127	76	1440	701	94	917	5640	69	16	22
28	48	107	121	74	1030	880	84	3560	4060	71	16	28
29	56	94	124	73	712	678	73	2030	1530	123	17	30
30	49	87	124	72	---	513	66	879	935	237	17	30
31	50	---	118	73	---	413	---	495	---	202	17	---
MEAN	182	67.9	405	96.4	606	653	128	303	1850	194	42.7	14.6
MAX	938	163	2050	121	3820	2550	350	3560	11200	697	158	30
MIN	44	42	77	72	62	161	66	36	47	57	15	9.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

MEAN	946	1251	1050	617	1050	1427	2148	2706	1267	1188	341	792
MAX	8670	4031	4455	2815	5191	4613	5186	8536	2998	10610	1455	3861
(WY)	1999	1993	1993	1993	1997	1990	1994	1995	1990	1993	1989	1998
MIN	40.9	44.2	56.0	65.5	77.8	44.5	128	116	33.8	99.4	18.8	14.6
(WY)	1996	1996	1996	1996	1996	1996	2000	1988	1988	1994	1999	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1987 - 2000	
ANNUAL MEAN	1365		376		1324	
HIGHEST ANNUAL MEAN					2996	1993
LOWEST ANNUAL MEAN					318	1992
HIGHEST DAILY MEAN	32300	Jun 30	11200	Jun 22	62300	Oct 1 1986
LOWEST DAILY MEAN	11	Sep 24	9.9	Sep 18	9.9	Sep 18 2000
ANNUAL SEVEN-DAY MINIMUM	12	Sep 20	11	Sep 15	11	Sep 15 2000
10 PERCENT EXCEEDS	2700		879		2800	
50 PERCENT EXCEEDS	214		88		226	
90 PERCENT EXCEEDS	17		17		39	

06921881 SOUTH GRAND RIVER AT GRAND RIVER CHURCH, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

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, and approximately 8.5 mi southwest of Harrisonville.

DRAINAGE AREA.--150 mi^2.

PERIOD OF RECORD.--October 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ALKA-LINITY WAT DIS FIX END FIELD $CaCO_3$ (mg/L) (39036)	ALKA-LINITY WAT DIS TOT IT FIELD (mg/L as $CaCO_3$) (39086)
OCT												
21...	1050	4.0	7.0	67	8.0	606	12.0	K50	86	260	210	206
NOV												
08...	1230	3.5	3.9	39	7.8	720	14.5	1000	110	220	270	266
DEC												
08...	1100	34	11.1	88	8.2	473	4.5	--	840	460	180	177
JAN												
05...	1130	11	19.2	138	8.1	572	1.0	K7	78	64	227	230
FEB												
16...	1100	5.8	14.2	109	8.3	539	3.5	K9	K17	28	200	201
MAR												
14...	1235	12	11.4	101	8.2	545	9.0	K96	100	140	--	--
APR												
11...	1255	11	10.0	97	8.3	603	13.0	K1	71	81	--	--
MAY												
23...	1015	16	6.0	70	8.0	616	21.0	760	760	K2100	--	--
JUN												
13...	1000	15	6.3	79	8.1	589	25.0	K30	K770	710	--	--
JUL												
18...	1045	4.2	5.6	72	8.1	532	27.0	K10	270	450	--	--
AUG												
17...	1010	.89	6.0	81	8.0	750	29.5	K2	K13	64	--	--
SEP												
13...	1140	.53	4.8	57	8.1	789	23.0	42	100	97	--	--

DATE	BICAR-BONATE WATER DIS IT FIELD (mg/L as HCO_3) (00453)	CAR-BONATE WATER DIS IT FIELD (mg/L as CO_3) (00452)	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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)
OCT												
21...	251	0	--	--	--	--	--	--	--	--	--	--
NOV												
08...	325	0	--	--	--	--	240	79.3	10.9	5.1	31.9	21.0
DEC												
08...	216	0	--	--	--	--	--	--	--	--	--	--
JAN												
05...	279	0	--	--	--	--	290	96.9	10.4	3.3	20.0	18.5
FEB												
16...	245	0	--	--	--	--	--	--	--	--	--	--
MAR												
14...	--	--	206	207	252	0	--	--	--	--	--	--
APR												
11...	--	--	217	217	264	0	--	--	--	--	--	--
MAY												
23...	--	--	215	215	263	0	240	80.8	10.1	4.0	33.2	21.0
JUN												
13...	--	--	190	190	232	0	--	--	--	--	--	--
JUL												
18...	--	--	208	208	253	0	220	73.6	8.98	4.2	23.8	14.8
AUG												
17...	--	--	222	222	271	0	--	--	--	--	--	--
SEP												
13...	--	--	239	239	292	0	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

06921881 SOUTH GRAND RIVER AT GRAND RIVER CHURCH, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	FLUORIDE, DISSOLVED (mg/L as F) (00950)	SULFATE DISSOLVED (mg/L as SO_4) (00945)	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)
OCT 21...	--	--	.020	.46	<.050	<.010	.082	.065	.094	--	--	--
NOV 08...	.3	100	<.020	.53	<.050	<.010	.160	.109	.182	21	12	464
DEC 08...	--	--	.021	.54	.627	<.010	.112	.075	.166	--	--	--
JAN 05...	.2	56.0	.022	.33	.861	<.010	.060	.061	.093	<10	3	355
FEB 16...	--	--	<.020	.34	.601	<.010	.055	.033	.082	--	--	--
MAR 14...	--	--	<.020	.49	.107	<.010	<.050	.025	.088	--	--	--
APR 11...	--	--	<.020	.43	.063	<.010	<.050	.024	.075	--	--	--
MAY 23...	.3	71.8	.044	.70	.340	.016	.067	.045	.145	15	75	372
JUN 13...	--	--	.038	.64	.351	.013	.066	.057	.172	--	--	--
JUL 18...	.2	48.1	<.020	.66	<.050	<.010	.067	.050	.143	19	37	326
AUG 17...	--	--	.032	.57	<.050	<.010	.066	.046	.122	--	--	--
SEP 13...	--	--	<.020	.68	<.050	<.010	.084	.068	.140	--	--	--

DATE	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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 08...	<15	323	<8.0	<.1	<10	30	<100	<1	294	<.3	<20	<31
JAN 05...	E9	149	<8.0	<.1	<10	<10	<100	<1	117	<.3	E11	<31
MAY 23...	<15	1250	<8.0	E.1	<10	<10	E52	1	85	<.3	E12	<31
JUL 18...	<15	764	<8.0	E.1	<10	<10	<100	1	101	<.3	<20	E18

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)	ATRAZINE, WATER, DISS, REC (µg/L) (39632)	METHYL AZINPHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	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)
MAR 14...	<.003	<.002	<.002	.031	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002
APR 11...	<.003	<.002	<.002	.045	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002
MAY 23...	<.003	.011	.100	.088	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002
JUN 13...	<.003	.013	.009	.492	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002
JUL 18...	<.003	<.002	<.002	.137	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002

E--Laboratory estimated value.

06921881 SOUTH GRAND RIVER AT GRAND RIVER CHURCH, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)	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)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)
MAR												
14...	E.011	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.005
APR												
11...	E.011	E.004	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.008
MAY												
23...	E.023	.008	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.011
JUN												
13...	E.066	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.081
JUL												
18...	E.029	.014	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.019

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)	PARA-THION, DIS-SOLVED (µg/L) (39542)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	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)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	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)
MAR												
14...	<.004	<.004	<.003	<.004	<.006	<.004	<.004	<.002	E.003	<.007	<.004	<.013
APR												
11...	<.004	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
MAY												
23...	.024	<.004	<.003	<.004	<.006	<.004	.105	<.002	E.005	.021	<.004	<.013
JUN												
13...	<.004	<.004	<.003	<.004	<.006	<.004	<.004	<.002	E.016	<.007	<.004	<.013
JUL												
18...	<.004	<.004	<.003	<.004	<.006	<.004	<.004	<.002	.086	<.007	<.004	<.013

DATE	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	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)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	P,P' DDE DISSOLV (µg/L) (34653)
MAR											
14...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
APR											
11...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
MAY											
23...	<.003	.006	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
JUN											
13...	<.003	<.005	.011	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
JUL											
18...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006

E--Laboratory estimated value.

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, 1,410,000 ac-ft, June 26, elevation, 709.75 ft; minimum, 1,126,000 ac-ft, Sept. 8, elevation, 704.99 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	706.73	706.72	707.05	707.28	706.20	707.25	707.45	706.29	707.40	708.17	707.14	705.03
2	707.18	706.71	706.94	707.33	706.06	706.97	707.44	706.31	707.38	707.47	707.06	705.03
3	707.47	706.70	706.99	707.38	705.93	706.67	707.29	706.33	707.37	707.16	706.98	704.99
4	707.58	706.71	707.23	707.25	705.87	706.65	707.00	706.33	707.43	707.31	706.74	705.06
5	707.49	706.69	707.41	707.05	705.86	706.63	706.71	706.29	707.38	706.97	706.79	705.07
6	707.40	706.70	707.52	706.95	705.91	706.38	706.33	706.33	707.40	706.75	706.77	705.07
7	707.24	706.71	707.63	706.94	705.81	706.41	706.26	706.36	707.39	706.57	706.67	705.03
8	707.15	706.71	707.59	707.04	705.76	706.58	706.09	706.32	707.38	706.60	706.56	704.99
9	707.17	706.74	707.40	707.16	705.73	706.58	705.97	706.60	707.26	706.67	706.35	705.00
10	707.15	706.76	707.31	707.16	705.74	706.67	705.93	706.70	707.25	706.47	706.07	705.03
11	707.11	706.75	707.60	707.03	705.72	706.83	705.94	706.83	707.35	706.23	706.05	705.03
12	707.04	706.78	707.93	707.01	705.73	706.92	706.01	706.87	707.34	706.27	706.07	705.06
13	706.84	706.81	707.74	706.97	705.78	706.93	706.03	706.91	707.11	706.13	706.13	705.05
14	706.71	706.82	707.62	706.87	705.69	707.06	706.07	706.94	707.19	705.97	705.85	705.06
15	706.64	706.82	707.51	706.96	705.61	707.20	706.10	706.94	707.26	706.03	705.54	705.06
16	706.63	706.82	707.43	707.00	705.62	707.26	706.20	706.99	707.69	706.09	705.27	705.05
17	706.63	706.86	707.32	707.01	705.67	707.50	706.07	707.01	708.14	705.92	705.02	705.04
18	706.63	706.93	707.34	707.03	705.91	707.97	706.09	707.04	708.51	705.69	705.03	705.03
19	706.63	706.93	707.46	707.03	706.19	708.46	706.09	707.01	708.55	705.68	705.00	705.03
20	706.65	706.92	707.32	706.87	706.57	708.59	706.16	707.02	708.63	705.74	705.00	705.04
21	706.67	706.93	707.27	706.72	706.83	708.67	706.13	707.05	708.75	705.80	705.03	705.06
22	706.65	707.01	707.13	706.79	706.93	708.69	706.15	707.08	708.87	705.90	705.05	705.06
23	706.64	707.06	707.05	706.85	706.93	708.62	706.24	706.91	709.13	706.02	705.08	705.03
24	706.63	706.98	707.00	706.77	706.85	708.46	706.29	706.85	709.43	706.24	705.05	705.07
25	706.63	707.02	707.05	706.71	707.03	708.38	706.25	706.82	709.55	706.43	705.00	705.06
26	706.63	707.00	707.07	706.59	707.32	708.62	706.20	706.93	709.75	706.58	705.00	705.06
27	706.63	706.99	707.11	706.42	707.43	708.60	706.21	707.27	709.64	706.76	705.06	705.06
28	706.67	706.99	707.12	706.39	707.59	708.41	706.20	707.35	709.52	706.88	705.08	705.05
29	706.69	706.99	707.16	706.42	707.52	708.12	706.20	707.58	709.26	707.08	705.08	705.05
30	706.71	706.99	707.19	706.50	---	707.80	706.29	707.55	708.79	707.14	705.05	705.05
31	706.72	---	707.21	706.38	---	707.54	---	707.52	---	707.17	705.03	---
MEAN	706.88	706.85	707.31	706.90	706.27	707.53	706.31	706.85	708.14	706.51	705.73	705.04
MAX	707.58	707.06	707.93	707.38	707.59	708.69	707.45	707.58	709.75	708.17	707.14	705.07
MIN	706.63	706.69	706.94	706.38	705.61	706.38	705.93	706.29	707.11	705.68	705.00	704.99
(-)	1222000	1237000	1250000	1202000	1269000	1270000	1197000	1269000	1346000	1248000	1128000	1130000
(=)	+33000	+15000	+13000	-48000	+67000	+1000	-73000	+72000	+77000	-98000	-12000	+2000

CAL YR 1999....+61000
WTR YR 2000....-59000

(-) 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.--7,856 mi^2 uncontrolled area below other reservoirs.

PERIOD OF RECORD.--May 1978 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by the U.S. Army Corps of Engineers).

REMARKS.--No estimated daily discharge. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	7550	11500	6360	183	3880	23400	2330	3930
2	0	0	2750	0	7080	10900	4800	183	250	25000	5640	250
3	0	0	0	1390	5280	13300	8430	183	250	13200	3770	250
4	0	0	0	5480	3640	3010	10000	183	250	0	7300	250
5	4880	0	0	7500	954	3780	10400	1310	250	11700	250	988
6	4150	0	1070	5580	542	8500	12800	183	250	8830	250	250
7	5020	0	4080	1130	3720	2450	4920	183	250	6570	4510	2380
8	4100	0	7640	0	1780	683	4690	4940	250	250	5270	250
9	0	0	12200	0	1580	0	4350	875	3040	250	5570	250
10	963	0	11300	2200	0	0	1810	1640	250	7590	8200	250
11	679	0	1970	3780	941	0	183	3040	250	7960	1670	2910
12	3800	0	1550	3780	600	0	516	2210	250	6530	250	250
13	6220	0	14600	4470	0	2140	183	0	6600	5680	250	250
14	3630	0	9310	4160	2920	1740	183	0	250	7120	7660	250
15	2780	0	5320	0	1800	3080	183	0	250	250	6940	250
16	0	0	4800	0	0	12800	183	0	250	250	7730	250
17	0	0	5200	3330	1070	10900	3090	83	250	7800	7400	250
18	0	0	854	1070	2370	4390	3050	46	250	6790	250	250
19	0	0	0	3940	675	4180	2330	0	7110	250	250	250
20	0	0	4700	6090	858	12500	1470	0	8120	250	250	125
21	0	0	4270	5900	1070	12500	183	0	9940	250	250	0
22	0	0	4760	0	4360	12800	183	142	14000	250	250	0
23	0	1700	4510	0	4780	11900	183	5560	13400	250	250	0
24	0	2050	0	4080	5690	12400	491	2360	5020	250	250	0
25	0	0	0	4010	4470	9260	1540	421	2790	250	250	0
26	0	2430	0	5040	2570	5570	2460	250	13700	250	250	0
27	0	692	0	6600	5490	10400	1510	250	24300	250	250	0
28	0	708	0	3220	4200	11800	950	250	24600	250	250	0
29	0	700	0	0	11500	14100	183	250	24300	250	1580	0
30	0	611	0	0	---	14500	183	3430	24600	250	250	0
31	0	---	0	4450	---	11100	---	1780	---	250	3930	---
MEAN	1168	296	3254	2813	3017	7490	2927	966	6305	4594	2694	469
MAX	6220	2430	14600	7500	11500	14500	12800	5560	24600	25000	8200	3930
MIN	0	0	0	0	0	0	83	0	250	0	250	0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2000[a], BY WATER YEAR (WY)

MEAN	10210	11190	13070	8418	8797	13790	14780	17210	16360	9122	5472	3711
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	00	23.8	83.6	682	933	864	253	966	585	551	367	135
(WY)	1996	1996	1996	1996	1996	1996	1996	2000	1988	1991	1991	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1982 - 2000[a]	
ANNUAL MEAN	11760		3005		11330	
HIGHEST ANNUAL MEAN					18760	
LOWEST ANNUAL MEAN					2516	
HIGHEST DAILY MEAN	52100	Jun 1	25000	Jul 2	71100	Oct 2 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)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°44'17", long 92°51'37", in 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 Springs Branch.

PERIOD OF RECORD.--October 1983 to September 1988, 1991 to current year.

REMARKS.--Ambient water-quality monitoring 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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREPTOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
15...	1025	148	10.3	99	7.9	407	13.6	K12	K16	K8	218
JAN											
10...	1135	225	11.2	100	7.5	370	10.4	K14	22	K9	178
MAR											
13...	0925	170	11.5	104	7.4	364	11.2	K6	K4	K8	176
MAY											
16...	0930	150	9.2	92	7.3	395	15.5	K9	34	20	199
JUL											
06...	1010	230	11.2	119	7.5	389	18.7	24	48	43	208
SEP											
05...	1045	102	8.7	87	7.6	401	15.9	K5	20	62	206

DATE	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)	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)	CHLORIDE, DISSOLVED (mg/L as Cl) (00940)	FLUORIDE, DISSOLVED (mg/L as F) (00950)	SULFATE DISSOLVED (mg/L as SO_4) (00945)
NOV											
15...	218	267	0	210	42.9	25.5	1.0	3.1	4.5	<.1	4.4
JAN											
10...	180	219	0	--	--	--	--	--	--	--	--
MAR											
13...	178	217	0	--	--	--	--	--	--	--	--
MAY											
16...	203	247	0	200	40.4	23.3	.9	3.3	5.4	<.1	5.2
JUL											
06...	213	260	0	--	--	--	--	--	--	--	--
SEP											
05...	210	256	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

06923700 NIANGUA RIVER BELOW BENNETT SPRINGS, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
NOV											
15...	<.020	.11	.833	<.010	<.050	.013	<.050	<10	1	--	E11
JAN											
10...	.022	.14	.990	<.010	<.050	.013	<.050	--	--	--	--
MAR											
13...	<.020	.11	.574	.013	<.050	<.010	<.050	--	--	--	--
MAY											
16...	<.020	.16	.656	.015	<.050	<.010	<.050	<10	<10	218	E13
JUL											
06...	.046	.16	.699	<.010	<.050	.024	<.050	--	--	--	--
SEP											
05...	.049	.13	.814	<.010	<.050	.013	<.050	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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...	<28	<8.0	<.1	<10	<10	<100	<1	6	<.3	42	<31
MAY											
16...	34	<8.0	<.1	<10	E10	<100	<1	10	<.3	38	<31

E--Laboratory estimated value.

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.

REMARKS.--No estimated daily discharges. Records fair. Diversion upstream through tunnel for power generation. 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	99	136	184	115	106	72	63	162	149	228	182	115
2	99	137	187	104	101	84	94	138	150	217	186	115
3	76	109	203	105	108	82	93	146	149	205	177	116
4	107	121	286	127	115	71	83	152	147	200	171	115
5	88	129	460	105	86	81	93	202	144	196	167	115
6	131	121	515	123	91	97	109	164	145	189	161	115
7	103	129	97	113	97	107	127	155	140	187	166	114
8	115	100	90	92	116	99	118	156	136	188	168	115
9	103	121	118	104	109	69	107	179	137	188	162	117
10	154	136	575	99	121	52	103	189	140	188	158	119
11	100	141	1860	116	115	73	96	183	146	185	163	121
12	109	131	449	115	92	58	90	177	146	210	160	116
13	131	136	205	118	81	102	82	175	140	1130	157	135
14	135	134	122	126	99	103	79	162	148	230	148	126
15	196	129	129	122	113	91	96	153	148	218	140	114
16	121	121	114	126	109	94	94	139	149	288	137	112
17	157	147	120	141	109	77	90	157	154	200	135	115
18	168	135	85	101	139	96	83	152	176	172	140	115
19	120	142	99	127	180	84	105	142	188	144	139	111
20	152	142	102	126	190	115	106	151	178	141	142	107
21	86	149	99	128	126	125	108	180	162	156	137	113
22	130	157	82	109	93	112	105	150	173	176	133	115
23	111	165	82	132	89	88	105	141	188	176	131	143
24	102	165	91	118	92	84	116	127	165	139	131	153
25	97	161	82	124	102	119	120	111	187	147	130	156
26	139	160	72	118	93	95	132	166	196	140	130	145
27	113	169	102	116	91	94	94	145	211	169	130	134
28	109	155	111	111	82	112	99	161	156	181	124	127
29	124	161	90	98	76	94	170	156	188	181	118	125
30	111	160	82	96	---	85	224	158	212	198	118	123
31	110	---	105	79	---	66	---	140	---	187	115	---
MEAN	119	140	226	114	108	89.7	106	157	162	218	147	122
MAX	196	169	1860	141	190	125	224	202	212	1130	186	156
MIN	76	100	72	79	76	52	63	111	136	139	115	107
IN.	.23	.26	.44	.22	.19	.17	.20	.30	.30	.42	.28	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2000, BY WATER YEAR (WY)

MEAN	213	420	213	151	356	633	729	619	194	143	160	202
MAX	492	1345	357	317	701	1458	1696	1599	370	226	385	462
(WY)	1999	1997	1997	1999	1998	1998	1999	1999	1999	1998	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1995 - 2000	
ANNUAL MEAN	532		143		339	
HIGHEST ANNUAL MEAN					555	1999
LOWEST ANNUAL MEAN					143	2000
HIGHEST DAILY MEAN	10300	May 5	1860	Dec 11	14500	Nov 8 1996
LOWEST DAILY MEAN	72	Dec 26	52	Mar 10	.00	Oct 18 1997
ANNUAL SEVEN-DAY MINIMUM	87	Dec 20	78	Feb 28	8.1	Sep 25 1997
INSTANTANEOUS PEAK FLOW	---		2550	Dec 11,Jul 13	15200[a]	Nov 8 1996
INSTANTANEOUS PEAK STAGE	---		5.44	Dec 11,Jul 13	14.19	Nov 8 1996
INSTANTANEOUS LOW FLOW	---		9.7	Oct 9	.00	Oct 18 1997
ANNUAL RUNOFF (INCHES)	12.08		3.25		7.70	
10 PERCENT EXCEEDS	1190		187		610	
50 PERCENT EXCEEDS	161		126		111	
90 PERCENT EXCEEDS	99		90		32	

[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, 1,216,000 ac-ft, July 11, elevation, 659.96 ft; minimum, 952,000 ac-ft, March 24, elevation, 655.12 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	656.81	657.43	657.13	659.26	656.70	656.00	656.38	658.26	659.30	659.74	659.40	657.43
2	656.80	657.24	657.22	659.26	656.49	655.95	656.58	658.26	659.29	659.79	659.50	657.38
3	656.79	657.21	657.29	659.37	656.49	656.00	656.75	658.27	659.29	659.70	659.51	657.35
4	656.71	657.19	657.50	659.23	656.25	656.12	656.90	658.27	659.30	659.72	659.66	657.35
5	656.88	657.17	657.63	659.45	656.18	656.25	657.15	658.35	659.29	659.80	659.65	657.36
6	657.02	657.16	657.73	659.62	656.19	656.51	657.56	658.40	659.28	659.87	659.63	657.34
7	657.20	657.15	657.88	659.39	656.16	656.53	657.52	658.39	659.28	659.83	659.54	657.20
8	657.40	657.14	658.20	659.38	656.05	656.48	657.61	658.50	659.18	659.75	659.48	657.12
9	657.41	657.13	658.79	659.38	655.96	656.22	657.75	658.78	659.28	659.70	659.35	657.08
10	657.44	657.12	658.88	659.46	655.93	655.97	657.70	658.87	659.26	659.84	659.35	657.02
11	657.45	657.07	658.87	659.55	655.96	656.00	657.61	658.99	659.32	659.96	659.31	656.59
12	657.60	657.06	658.98	659.62	655.98	656.04	657.62	659.00	659.31	659.90	659.29	656.56
13	657.77	657.05	659.15	659.63	655.85	655.81	657.61	659.00	659.30	659.82	659.27	656.48
14	657.93	657.04	659.15	659.64	655.64	655.76	657.61	659.02	659.34	659.92	659.25	656.47
15	657.94	657.03	658.75	659.64	655.56	655.97	657.61	659.02	659.32	659.91	659.13	656.46
16	657.93	657.02	658.77	659.63	655.30	656.34	657.62	659.02	659.38	659.89	658.97	656.44
17	657.91	657.01	658.67	659.30	655.14	656.50	657.70	658.97	659.46	659.83	658.81	656.43
18	657.89	657.00	658.72	658.94	655.31	656.55	657.81	658.96	659.48	659.60	658.71	656.41
19	657.87	656.99	658.73	659.10	655.41	656.79	657.90	658.95	659.58	659.60	658.69	656.38
20	657.86	656.98	658.87	659.04	655.49	656.54	657.97	658.94	659.70	659.50	658.65	656.21
21	657.84	656.97	659.01	658.94	655.55	656.22	657.97	658.94	659.78	659.49	658.63	656.19
22	657.80	656.96	659.14	658.92	655.52	655.89	657.96	658.93	659.65	659.48	658.27	655.84
23	657.79	657.09	659.30	658.85	655.70	655.50	657.98	659.10	659.54	659.47	658.10	655.88
24	657.68	657.17	659.29	658.60	655.90	655.12	658.02	659.16	659.40	659.45	658.10	655.95
25	657.60	657.17	659.28	658.12	656.00	655.40	658.06	659.18	659.42	659.42	658.09	655.96
26	657.58	657.23	659.27	657.70	656.13	655.73	658.16	659.04	659.50	659.40	658.11	655.95
27	657.56	657.24	659.27	657.70	656.38	655.70	658.20	659.17	659.52	659.21	658.08	655.89
28	657.47	657.25	659.27	657.34	656.00	655.52	658.25	659.18	659.50	659.25	657.81	655.81
29	657.46	657.27	659.26	657.27	656.00	655.33	658.25	659.19	659.60	659.30	657.73	655.70
30	657.46	657.14	659.26	657.25	---	655.80	658.25	659.20	659.70	659.32	657.54	655.67
31	657.46	---	659.26	656.72	---	656.10	---	659.20	---	659.32	657.50	---
MEAN	657.49	657.12	658.66	658.88	655.90	656.02	657.67	658.86	659.42	659.64	658.81	656.53
MAX	657.94	657.43	659.30	659.64	656.70	656.79	658.25	659.20	659.78	659.96	659.66	657.43
MIN	656.71	656.96	657.13	656.72	655.14	655.12	656.38	658.26	659.18	659.21	657.50	655.67
(-)	1075000	1057000	1175000	1035000	997000	1002000	1118000	1172000	1201000	1179000	1077000	980000
(=)	+35000	-18000	+118000	-140000	-38000	+5000	+116000	+54000	+29000	-22000	-102000	-97000

CAL YR....+15000
WTR YR....-60000

(-) 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.--No estimated daily discharge. Records fair. Flow regulated by Lake of the Ozarks (station 06925500), 1.3 mi upstream. U.S.G.S. satellite telemeter at station.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	474	1170	702	552	8380	12200	677	583	2060	21800	1210	5280
2	524	2670	807	560	9700	12500	582	1300	819	24100	2640	2470
3	517	2240	622	569	6490	11900	3560	557	495	16800	3230	747
4	2000	504	536	6160	8780	1260	3970	525	495	2450	2920	650
5	752	508	558	3560	3220	501	5760	527	529	5860	725	711
6	844	513	685	1370	836	4780	1970	536	499	7190	774	592
7	649	525	2480	5410	3920	2540	6090	556	484	6690	4070	3840
8	532	583	539	2100	4190	1990	2590	3210	2980	2480	7170	2820
9	1280	620	543	597	3510	5690	893	1930	854	1200	8840	1200
10	565	597	7640	732	1760	6420	4440	566	485	2970	8950	1730
11	515	1400	7660	1900	929	1680	2970	533	490	4470	2170	10500
12	516	665	2950	2290	510	1370	682	3150	495	9340	477	3350
13	526	521	8400	3500	2480	6560	729	779	5150	6330	411	2290
14	516	521	11700	3520	7240	3670	538	540	1190	5200	5020	609
15	2690	511	15500	616	3870	1580	991	544	635	1780	8440	463
16	1030	550	5390	552	5480	2640	618	548	934	626	12200	613
17	650	584	5950	9550	6760	8080	1260	1580	547	6380	10500	555
18	527	540	1350	11200	7040	5730	542	787	490	13700	3780	561
19	505	628	541	1350	1790	819	949	536	3410	1530	669	748
20	502	540	1520	5070	661	13700	758	529	7020	3100	822	2810
21	506	507	1290	8140	999	21600	526	528	13500	958	738	901
22	932	525	1460	1920	4860	20800	518	541	14600	387	5810	4770
23	623	534	785	2000	1610	20700	525	565	15800	396	4220	1840
24	2420	598	672	10200	2550	23000	533	1280	11100	758	1220	392
25	2980	536	573	15100	7950	2640	526	737	3210	1040	1000	379
26	523	1030	563	15300	3380	535	532	3540	9630	869	971	380
27	772	555	564	7370	1280	8840	515	2300	15700	3260	1420	1470
28	2570	527	562	13300	11700	16100	522	527	28500	1470	4260	2010
29	676	530	564	2760	10700	18300	527	516	20900	537	3370	2450
30	498	2760	551	1440	---	4970	534	2960	22400	401	3610	397
31	522	---	533	14300	---	2650	---	1900	---	394	3440	---
MEAN	940	816	2716	4935	4572	7927	1528	1136	6180	4983	3712	1918
MAX	2980	2760	15500	15300	11700	23000	6090	3540	28500	24100	12200	10500
MIN	474	504	533	552	510	501	515	516	484	387	411	379
IN.	.08	.07	.22	.41	.35	.65	.12	.09	.49	.41	.31	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2000[a], BY WATER YEAR (WY)

MEAN	7312	8741	8286	8165	10000	13660	15840	15870	15140	9616	4957	5836
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	586	535	359	452	516	515	492	510	486
(WY)	1957	1957	1996	1940	1964	1931	1931	1956	1931	1931	1956	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1931 - 2000[a]	
ANNUAL MEAN	13850		3450		10280	
HIGHEST ANNUAL MEAN					23360	1973
LOWEST ANNUAL MEAN					1046	1954
HIGHEST DAILY MEAN	52600	Jun 2	28500	Jun 28	212000	May 19 1943
LOWEST DAILY MEAN	397	Sep 23	379	Sep 25	235	Apr 23 1971
ANNUAL SEVEN-DAY MINIMUM	550	Nov 4	524	Apr 22	320	Mar 3 1931
INSTANTANEOUS PEAK FLOW	---		32000	Jun 28	220000	May 19 1943
INSTANTANEOUS PEAK STAGE	---		15.34	Jun 28	48.80	May 19 1943
INSTANTANEOUS LOW FLOW	---		359	Sep 25	183	Sep 9 1969
ANNUAL RUNOFF (INCHES)	13.43		3.36		9.97	
10 PERCENT EXCEEDS	35100		9650		30200	
50 PERCENT EXCEEDS	5950		1280		4070	
90 PERCENT EXCEEDS	540		517		509	

[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.--No estimated daily 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	441	560	2710	620	15100	10300	2910	607	2100	21800	499	4330
2	419	975	1180	626	6730	13000	1250	671	2050	23500	1130	5660
3	478	3820	907	671	10800	11800	1300	1310	1240	19800	3110	2320
4	525	1930	1080	763	6870	9820	3690	934	692	13500	3470	1170
5	1770	810	1250	6290	6790	1860	5540	673	559	2260	3130	850
6	1080	597	1160	4100	3260	1430	4150	644	543	8240	1250	852
7	872	570	1200	2010	1500	4590	3660	785	544	7130	902	766
8	1070	562	2280	5410	4180	2560	5070	838	501	7000	6070	4660
9	749	588	1090	2300	4430	2740	2580	4550	2350	2860	7990	2750
10	1310	662	1860	1100	3890	6210	2180	2340	1300	1620	9150	1550
11	863	694	9540	988	1970	5700	4230	1210	672	3530	7460	3310
12	588	1180	7030	1890	1340	2330	2860	899	565	5870	2180	10500
13	536	1070	3870	2430	817	2180	1200	2710	583	8680	943	3160
14	520	629	9380	4250	4530	6590	1010	1290	5970	7040	554	2310
15	520	548	12800	3100	6460	3750	784	776	1580	5290	6620	1100
16	2160	525	12900	1110	4110	1930	1010	701	877	1850	10900	576
17	1350	528	5030	1280	5470	5190	979	680	1080	1090	11400	685
18	786	602	5830	11300	9570	7010	1380	1470	901	12400	9790	678
19	685	655	1810	9060	8190	4860	873	1160	615	9910	3490	614
20	549	591	930	1860	2620	3790	1040	711	4210	1870	1310	784
21	518	707	1560	7760	1580	19100	1100	629	14000	2880	1000	3290
22	507	551	1580	5760	2070	19200	699	616	10800	1410	1060	1340
23	827	618	1640	2100	4450	19900	635	609	16900	653	7240	6510
24	888	623	1250	2970	2140	22300	633	631	15500	480	4310	1810
25	2470	624	864	12300	3700	15300	636	1190	9220	665	1570	740
26	2300	648	809	14800	6980	2630	617	1120	4530	1150	1090	494
27	868	1040	699	12900	3870	1880	624	5340	13700	1120	1210	403
28	738	852	677	9740	3660	12300	606	2060	25400	4380	1500	1320
29	2270	597	675	8790	12600	16500	582	942	21700	1990	5760	2560
30	1180	796	659	2910	---	13600	599	728	22000	1190	3550	1920
31	640	---	650	4370	---	4250	---	2530	---	682	4380	---
MEAN	983	838	3061	4695	5161	8213	1814	1334	6089	5866	4001	2300
MAX	2470	3820	12900	14800	15100	22300	5540	5340	25400	23500	11400	10500
MIN	419	525	650	620	817	1430	582	607	501	480	499	403
IN.	.08	.06	.24	.37	.38	.65	.14	.11	.47	.47	.32	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	13090	14700	12230	10170	15270	22020	19740	17610	18770	11360	4667	5339
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	983	776	3061	4695	5161	8213	1814	1334	6089	5866	2622	1374
(WY)	2000	1998	2000	2000	2000	2000	2000	2000	2000	2000	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL MEAN	15320		3699		13810	
HIGHEST ANNUAL MEAN					22740	1999
LOWEST ANNUAL MEAN					3699	2000
HIGHEST DAILY MEAN	54800	May 25	25400	Jun 28	63600	Jul 27 1998
LOWEST DAILY MEAN	320	Sep 24	403	Sep 27	320	Sep 24 1999
ANNUAL SEVEN-DAY MINIMUM	583	Nov 14	583	Nov 14	583	Nov 14 1999
INSTANTANEOUS PEAK FLOW	---		28800	Jun 29	74700	Jul 26 1998
INSTANTANEOUS PEAK STAGE	---		12.06	Jun 29	21.86	Jul 26 1998
INSTANTANEOUS LOW FLOW	---		390	Sep 27,28	320	Sep 24 1999
ANNUAL RUNOFF (INCHES)	14.34		3.47		12.94	
10 PERCENT EXCEEDS	37800		10000		35300	
50 PERCENT EXCEEDS	6900		1600		7790	
90 PERCENT EXCEEDS	636		601		800	

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 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, and July 25 and Aug. 11, 1980; minimum daily, 0.0°C, Jan. 21, 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
08...	1015	564	10.2	102	7.4	265	15.8	23	21	27	110
JAN											
05...	0930	8620	12.6	99	7.0	274	5.4	--	K63	21	91
MAR											
08...	0900	2830	10.1	91	7.4	264	10.6	K8	K18	K8	109
MAY											
03...	0900	1430	9.0	101	7.9	304	20.8	K6	K8	K1	125
JUL											
12...	0845	6900	6.6	80	7.6	307	24.8	K83	K87	170	122
SEP											
13...	0925	3790	3.1	37	7.7	306	24.2	54	68	110	119

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
08...	113	138	0	120	34.9	8.85	3.0	5.5	6.2	.3	26.5
JAN											
05...	95	115	0	--	--	--	--	--	--	--	--
MAR											
08...	114	139	0	--	--	--	--	--	--	--	--
MAY											
03...	125	153	0	140	37.4	12.4	2.7	6.0	6.8	.2	19.2
JUL											
12...	124	151	0	--	--	--	--	--	--	--	--
SEP											
13...	116	141	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

06926510 OSAGE RIVER BELOW ST. THOMAS, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
NOV											
08...	<.020	.42	.088	<.010	E.031	.018	E.040	<10	10	170	52
JAN											
05...	<.020	.40	.118	<.010	<.050	<.010	E.040	--	--	--	--
MAR											
08...	<.020	.46	.123	<.010	<.050	<.010	.057	--	--	--	--
MAY											
03...	.030	.37	<.050	<.010	<.050	<.010	E.040	11	6	175	22
JUL											
12...	<.020	.34	.060	<.010	<.050	<.010	<.050	--	--	--	--
SEP											
13...	.052	.39	.056	<.010	E.047	.036	.092	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
08...	187	<8.0	<.1	<10	30	<100	<1	4	<.3	E13	<31
MAY											
03...	120	<8.0	<.1	<10	10	<100	<1	102	<.3	E16	<31

E--Laboratory estimated value.

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.

REMARKS.--No estimated daily discharges. Records fair.U.S.G.S. satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--For the period Dec. 29, 1999 to Sept. 30, 2000, maximum discharge 149 ft^3/s, Feb. 19, gage height 3.20 ft; minimum 0.82 ft^3/s, Sept. 1.

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	---	---	---	15	13	33	32	11	5.2	7.4	14	1.2
2	---	---	---	14	13	30	31	11	4.9	7.4	11	1.5
3	---	---	---	17	13	36	29	11	4.7	8.2	9.1	1.2
4	---	---	---	19	13	46	27	11	4.4	6.3	7.7	1.2
5	---	---	---	18	12	51	25	11	4.7	6.6	6.8	1.4
6	---	---	---	17	12	52	24	10	4.4	6.1	5.9	1.5
7	---	---	---	16	12	47	23	11	4.1	5.3	5.8	1.7
8	---	---	---	18	12	42	22	10	3.9	5.3	5.0	1.9
9	---	---	---	20	12	38	20	10	3.8	4.5	4.9	2.1
10	---	---	---	21	12	35	19	10	4.0	4.0	4.5	2.1
11	---	---	---	22	12	37	18	8.9	4.6	3.7	3.9	2.2
12	---	---	---	22	12	35	18	8.3	4.5	27	3.5	3.3
13	---	---	---	22	12	35	17	7.9	4.5	13	3.1	3.2
14	---	---	---	21	12	47	17	7.2	5.1	7.4	2.9	2.6
15	---	---	---	20	12	57	16	7.0	5.6	6.3	2.5	2.2
16	---	---	---	19	12	57	17	6.9	5.4	5.5	2.4	2.0
17	---	---	---	19	14	51	16	6.6	11	6.0	2.2	1.8
18	---	---	---	18	50	46	15	6.5	13	5.6	2.9	1.8
19	---	---	---	17	138	54	14	6.5	11	4.9	3.2	1.6
20	---	---	---	17	116	59	15	6.5	9.6	5.1	3.1	1.4
21	---	---	---	16	94	57	14	6.5	21	5.6	2.9	1.4
22	---	---	---	16	77	52	13	6.3	18	6.9	2.3	1.4
23	---	---	---	16	64	46	13	6.2	14	6.4	1.9	1.8
24	---	---	---	15	55	42	14	6.0	12	5.5	1.9	3.5
25	---	---	---	15	49	39	13	6.5	9.8	4.7	1.7	6.3
26	---	---	---	14	48	37	13	7.0	8.6	4.1	1.6	4.9
27	---	---	---	13	44	40	12	8.1	7.9	3.7	2.1	3.9
28	---	---	---	14	39	38	12	8.7	7.2	4.1	1.9	3.1
29	---	---	17	14	36	37	11	7.5	6.9	41	1.3	2.7
30	---	---	17	14	---	36	11	6.5	7.4	25	1.2	2.3
31	---	---	16	14	---	34	---	5.7	---	19	1.4	---
MEAN	---	---	---	17.2	35.2	43.4	18.0	8.17	7.71	8.76	4.02	2.31
MAX	---	---	---	22	138	59	32	11	21	41	14	6.3
MIN	---	---	---	13	12	30	11	5.7	3.8	3.7	1.2	1.2

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 Old Business 66, 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.

REMARKS.--No estimated daily discharges. Records fair. U.S.G.S. satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--For period Feb. 23 to Sept. 30, maximum discharge 8.1 ft^3/s, July 1, gage height 2.33 ft; minimum, 0.05 ft^3/s, Aug. 30, 31, and Sept. 5.

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	---	---	---	---	---	1.7	2.2	1.4	.32	2.8	.26	.11
2	---	---	---	---	---	1.6	2.4	1.5	.41	1.0	.28	.15
3	---	---	---	---	---	2.1	2.4	1.4	.52	1.1	.41	.10
4	---	---	---	---	---	1.9	2.4	1.5	.30	1.2	.74	.08
5	---	---	---	---	---	1.8	2.0	1.6	.28	1.1	.86	.07
6	---	---	---	---	---	2.0	2.3	1.4	.40	1.0	.52	.08
7	---	---	---	---	---	2.3	2.4	1.2	.31	.55	.32	.12
8	---	---	---	---	---	2.3	2.1	1.2	.41	.45	.26	.25
9	---	---	---	---	---	2.0	1.8	1.2	.33	.38	.26	.34
10	---	---	---	---	---	1.8	1.9	.86	.29	.35	.32	.38
11	---	---	---	---	---	3.0	2.3	1.0	.33	.34	.28	.35
12	---	---	---	---	---	2.6	2.0	1.2	.40	.42	.20	.57
13	---	---	---	---	---	2.4	1.8	.94	.38	.38	.15	.29
14	---	---	---	---	---	2.3	1.6	.53	.61	.31	.10	.16
15	---	---	---	---	---	2.4	1.5	.55	.63	.25	.09	.11
16	---	---	---	---	---	2.6	1.6	.70	.53	.21	.09	.08
17	---	---	---	---	---	2.2	1.7	.67	1.7	.31	.08	.09
18	---	---	---	---	---	2.7	1.7	.64	1.0	.38	.11	.09
19	---	---	---	---	---	4.6	1.7	.58	.83	.35	.11	.09
20	---	---	---	---	---	4.0	2.0	.67	.99	.42	.13	.09
21	---	---	---	---	---	3.3	1.8	.55	2.7	.40	.13	.10
22	---	---	---	---	---	3.1	1.3	.55	1.3	.36	.11	.09
23	---	---	---	---	2.0	2.8	1.2	.60	.95	.32	.15	.09
24	---	---	---	---	1.8	2.8	1.3	.60	.82	.28	.45	.27
25	---	---	---	---	2.1	2.5	1.2	.70	.75	.34	.33	.61
26	---	---	---	---	1.9	2.7	1.2	.53	.71	.46	.24	.32
27	---	---	---	---	1.7	3.4	1.3	.79	.72	.29	.17	.23
28	---	---	---	---	1.6	2.7	1.6	.62	.73	.35	.13	.19
29	---	---	---	---	1.8	2.7	1.2	.47	.80	.49	.08	.14
30	---	---	---	---	---	2.6	.98	.42	.66	.34	.06	.14
31	---	---	---	---	---	2.2	---	.49	---	.27	.07	---
MEAN	---	---	---	---	---	2.55	1.76	.87	.70	.55	.24	.19
MAX	---	---	---	---	---	4.6	2.4	1.6	2.7	2.8	.86	.61
MIN	---	---	---	---	---	1.6	.98	.42	.28	.21	.06	.07

06928440 ROUBIDOUX SPRING AT WAYNESVILLE, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°49'30", long 92°11'53", NE $^1/_4$ NW $^1/_4$ sec.25, T.36 N., R.12 W., Pulaski County, Hydrologic Unit 10290201. Take Business Loop 44 through Waynesville, turn south along river and follow up to spring.

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
16...	1050	18	4.4	44	8.0	415	15.3	LA	K6	120	215
JAN											
10...	1340	32	9.4	89	7.2	348	12.7	K5	K2	K7	171
MAR											
15...	1115	69	9.6	89	7.2	336	12.1	24	30	K9	170
MAY											
16...	1145	17	5.4	52	7.3	386	13.8	K2	K3	K12	197
JUL											
05...	1225	14	6.4	63	7.4	410	14.4	23	K18	35	213
SEP											
05...	0930	6.8	5.5	54	7.2	407	14.9	K3	K8	K8	210

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
16...	216	263	0	220	44.4	27.5	.9	2.6	3.0	.1	6.0
JAN											
10...	174	212	0	--	--	--	--	--	--	--	--
MAR											
15...	171	209	0	--	--	--	--	--	--	--	--
MAY											
16...	200	244	0	200	39.8	24.0	.8	2.4	4.5	<.1	7.6
JUL											
05...	213	260	0	--	--	--	--	--	--	--	--
SEP											
05...	214	261	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV											
16...	<.020	<.10	.461	<.010	E.036	<.010	<.050	<10	1	230	<15
JAN											
10...	<.020	.15	.682	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
15...	<.020	<.10	.287	<.010	<.050	<.010	<.050	--	--	--	--
MAY											
16...	<.020	E.10	.297	<.010	<.050	<.010	<.050	<10	<10	216	<15
JUL											
05...	<.020	E.10	.387	<.010	<.050	<.010	<.050	--	--	--	--
SEP											
05...	<.020	<.10	.401	<.010	<.050	<.010	<.050	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
16...	E15	<8.0	<.1	<10	<10	<100	<1	<2	<.3	52	<31
MAY											
16...	<28	E3.2	<.1	<10	E10	<100	<1	<2	<.3	43	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
LA--Laboratory accident.
E--Laboratory estimated value.

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 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.--No estimated daily discharges. Records good. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 24.54 ft. Dec. 4, 1982, from floodmark, at present datum, discharge, 81,200 ft^3/s, from indirect measurement.

EXTREMES FOR CURRENT YEAR.--For period Nov. 23, 1999 to Sept. 30, 2000, maximum discharge 683 ft^3/s, Feb. 19, 27, and 28, gage height, 4.08 ft; minimum, 82 ft^3/s, Sept. 19-20.

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	---	---	141	151	149	383	218	136	141	154	218	92
2	---	---	141	151	148	337	213	136	133	143	186	93
3	---	---	164	162	146	316	208	137	129	139	161	91
4	---	---	174	178	144	298	203	137	124	147	146	96
5	---	---	206	277	145	287	197	139	122	139	137	90
6	---	---	179	284	145	274	192	140	119	129	130	89
7	---	---	169	248	146	263	188	146	116	124	125	93
8	---	---	161	233	145	251	181	140	113	117	121	90
9	---	---	200	223	144	240	177	139	113	111	239	86
10	---	---	358	216	145	228	174	135	112	109	248	87
11	---	---	328	208	144	233	171	132	119	105	193	87
12	---	---	285	199	144	226	169	131	117	126	158	100
13	---	---	263	191	144	230	166	127	116	122	140	94
14	---	---	257	183	144	239	164	123	119	123	141	91
15	---	---	256	177	144	248	162	121	116	115	130	91
16	---	---	234	173	142	256	164	121	113	111	121	89
17	---	---	215	170	151	250	160	121	144	111	115	87
18	---	---	202	168	179	241	160	120	147	111	117	85
19	---	---	193	165	529	244	157	118	164	111	115	83
20	---	---	185	163	523	255	155	120	159	114	113	83
21	---	---	179	160	415	301	151	121	184	116	110	85
22	---	---	173	158	352	301	150	122	183	125	107	86
23	---	151	168	157	311	282	149	119	254	156	103	87
24	---	152	164	156	281	268	149	118	238	137	102	103
25	---	156	162	154	260	255	148	122	204	127	102	112
26	---	155	159	152	254	246	148	131	184	117	100	106
27	---	151	157	150	514	244	145	145	172	122	99	128
28	---	148	156	151	598	238	142	142	165	126	98	132
29	---	144	156	155	459	235	140	155	157	167	95	125
30	---	142	156	154	---	229	138	159	156	171	93	115
31	---	---	154	152	---	223	---	151	---	223	93	---
MEAN	---	---	197	181	246	262	168	132	148	131	134	95.9
MAX	---	---	358	284	598	383	218	159	254	223	248	132
MIN	---	---	141	150	142	223	138	118	112	105	93	83
IN.	---	---	.40	.37	.47	.54	.33	.27	.29	.27	.28	.19

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

MEAN	272	487	454	559	626	832	999	921	611	291	241	259
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	93.5	72.9
(WY)	1957	1965	1956	1956	1934	1981	2000	2000	1934	1934	1954	1954

SUMMARY STATISTICS	FOR PERIOD OF RECORD	
ANNUAL MEAN	547	
HIGHEST ANNUAL MEAN	1179	1927
LOWEST ANNUAL MEAN	149	1954
HIGHEST DAILY MEAN	22900	Sep 26 1993
LOWEST DAILY MEAN	69	Sep 17-18 1954
ANNUAL SEVEN-DAY MINIMUM	71	Sep 14 1954
INSTANTANEOUS PEAK FLOW	32700	Dec 27 1942
INSTANTANEOUS PEAK STAGE	20.70	Dec 27 1942
INSTANTANEOUS LOW FLOW	69	Sep 17-18 1954
ANNUAL RUNOFF (INCHES)	13.26	
10 PERCENT EXCEEDS	1060	
50 PERCENT EXCEEDS	256	
90 PERCENT EXCEEDS	123	

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.

REMARKS.--Estimated daily discharge: March 21. Records good. U.S.G.S. satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--For period Dec. 3, 1999 to Sept. 30, 2000, maximum discharge 703 ft^3/s, Feb. 28, gage height 3.49 ft; minimum 110 ft^3/s, Sept. 3.

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	---	---	---	172	166	457	259	168	160	177	210	115
2	---	---	---	171	165	398	254	169	156	166	193	113
3	---	---	175	180	163	373	248	168	152	166	172	114
4	---	---	190	182	162	341	240	167	149	168	156	118
5	---	---	250	234	162	332	234	168	147	164	148	119
6	---	---	202	307	162	318	229	169	144	155	140	116
7	---	---	185	267	161	304	224	176	142	148	135	118
8	---	---	176	251	162	292	217	171	138	144	132	119
9	---	---	212	240	161	277	211	168	137	138	147	118
10	---	---	505	232	162	267	208	166	137	136	259	120
11	---	---	444	223	160	276	204	161	141	130	200	119
12	---	---	352	215	160	261	199	160	142	137	166	138
13	---	---	304	206	161	246	197	157	142	145	148	127
14	---	---	283	198	161	281	196	152	145	142	147	124
15	---	---	280	193	161	289	193	152	145	140	155	123
16	---	---	262	188	160	297	196	151	140	136	146	122
17	---	---	239	185	166	286	191	151	164	140	138	122
18	---	---	224	182	194	286	190	149	174	135	138	119
19	---	---	213	180	400	295	187	148	173	129	137	119
20	---	---	205	178	614	304	187	149	182	136	138	118
21	---	---	197	176	501	325	180	152	201	136	134	116
22	---	---	192	175	426	336	178	152	197	131	130	115
23	---	---	187	173	373	333	178	149	232	152	126	116
24	---	---	182	171	333	316	179	146	256	152	129	129
25	---	---	179	169	309	299	176	146	227	142	127	145
26	---	---	177	169	295	288	175	150	205	135	125	134
27	---	---	176	167	410	289	173	167	191	129	128	133
28	---	---	175	166	661	281	168	165	179	139	122	152
29	---	---	175	171	543	279	167	164	176	155	116	146
30	---	---	175	171	---	274	165	178	172	167	115	140
31	---	---	175	168	---	263	---	170	---	194	116	---
MEAN	---	---	---	195	269	305	200	160	168	147	148	124
MAX	---	---	---	307	661	457	259	178	256	194	259	152
MIN	---	---	---	166	160	246	165	146	137	129	115	113

06930450 BIG PINEY RIVER AT DEVIL'S ELBOW, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°50'53", long 92°03'44, in SE $^1/_4$ NE $^1/_4$ sec.18, T.36 N., R.10 W., Pulaski County, Hydrologic Unit 1929020, at bridge on County Highway V at Devil's Elbow.

PERIOD OF RECORD.--July 1977 to October 1989, November 1992 to currrent year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
15...	1322	232	13.0	122	8.4	353	13.0	K3	K7	<1	187
JAN											
13...	1130	271	12.3	100	8.1	330	7.1	K3	K7	K1	187
MAR											
13...	1135	325	11.6	106	7.3	327	11.7	K1	K6	K1	159
MAY											
15...	1410	240	10.0	108	8.0	347	19.5	K1	K4	K12	176
JUL											
05...	1035	230	8.4	105	8.0	349	26.9	K15	K17	K16	173
SEP											
05...	1130	155	7.1	86	8.0	340	25.0	K4	24	K17	172

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
15...	186	200	13	190	37.2	22.6	1.0	3.2	6.1	.1	4.7
JAN											
13...	192	234	0	--	--	--	--	--	--	--	--
MAR											
13...	162	198	0	--	--	--	--	--	--	--	--
MAY											
15...	178	217	0	180	34.5	21.6	1.2	3.0	4.8	<.1	5.0
JUL											
05...	173	211	0	--	--	--	--	--	--	--	--
SEP											
05...	170	207	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV											
15...	<.020	.22	.238	<.010	.054	.016	<.050	<10	<1	--	E8
JAN											
13...	<.020	E.10	.518	<.010	<.050	.014	<.050	--	--	--	--
MAR											
13...	<.020	.11	.711	.012	<.050	.012	E.030	--	--	--	--
MAY											
15...	.021	.19	.249	<.010	E.039	.029	.054	<10	<10	193	E9
JUL											
05...	<.020	.21	.240	<.010	E.042	.017	.053	--	--	--	--
SEP											
05...	<.020	.15	.210	<.010	.062	.054	.053	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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...	E24	<8.0	<.1	<10	10	<100	<1	7	<.3	21	E17
MAY											
15...	79	E3.9	<.1	<10	20	<100	<1	11	<.3	E13	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

06930800 GASCONADE RIVER ABOVE JEROME, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°55'12", long 91°58'33", in 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, 132 microsiemens per centimeter, November 8, 1996.
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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
OCT											
05...	1310	492	8.1	78	8.3	276	14.2	24	K4	K3	178
NOV											
16...	0850	516	7.9	71	8.4	353	10.7	LA	K5	K1	194
DEC											
08...	1330	879	11.6	100	8.1	350	8.7	K18	38	K19	185
JAN											
13...	1100	722	11.2	89	7.6	354	6.3	K3	K2	K3	169
FEB											
09...	0915	560	11.8	95	7.8	347	6.1	K4	K2	K2	179
MAR											
13...	1350	1010	11.9	107	7.3	334	11.2	3	K1	82	154
APR											
04...	1250	935	10.3	95	7.4	334	12.0	K4	K1	56	163
MAY											
16...	1325	504	9.1	99	7.9	355	19.7	K4	K3	K1	178
JUN											
13...	1050	481	6.2	74	8.0	347	24.0	79	33	K14	172
JUL											
05...	1500	493	8.6	110	8.1	353	28.5	K3	K3	K3	171
AUG											
01...	0945	541	7.5	89	8.0	319	23.8	K11	20	K15	169
SEP											
05...	1300	350	6.5	75	8.0	340	23.0	K2	K13	K6	176

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
OCT											
05...	176	215	0	--	--	--	--	--	--	--	--
NOV											
16...	195	226	6	190	37.7	23.8	.9	3.3	4.3	<.1	5.2
DEC											
08...	185	225	0	--	--	--	--	--	--	--	--
JAN											
13...	171	209	0	200	40.3	23.7	.6	4.4	5.8	<.1	7.5
FEB											
09...	181	220	0	--	--	--	--	--	--	--	--
MAR											
13...	160	195	0	--	--	--	--	--	--	--	--
APR											
04...	166	203	0	--	--	--	--	--	--	--	--
MAY											
16...	180	220	0	180	34.8	23.0	.6	4.1	5.6	<.1	5.1
JUN											
13...	172	209	0	--	--	--	--	--	--	--	--
JUL											
05...	170	209	0	190	35.4	24.1	1.1	3.7	6.2	<.1	5.3
AUG											
01...	171	209	0	--	--	--	--	--	--	--	--
SEP											
05...	177	216	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
LA--Laboratory accident.

06930800 GASCONADE RIVER ABOVE JEROME, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
OCT											
05...	<.020	.29	.187	<.010	E.030	.015	E.040	--	--	--	--
NOV											
16...	<.020	E.10	.159	<.010	<.050	<.010	<.050	26	<1	199	E12
DEC											
08...	<.020	E.10	.270	<.010	<.050	.011	<.050	--	--	--	--
JAN											
13...	<.020	E.10	.512	<.010	<.050	<.010	<.050	<10	2	197	18
FEB											
09...	<.020	.12	.190	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
13...	<.020	.15	.339	.012	<.050	<.010	<.050	--	--	--	--
APR											
04...	<.020	.19	.132	<.010	<.050	<.010	E.031	--	--	--	--
MAY											
16...	.025	.21	.095	<.010	<.050	<.010	<.050	<10	<10	196	E11
JUN											
13...	.021	.24	.200	<.010	<.050	.016	E.039	--	--	--	--
JUL											
05...	<.020	.26	.224	<.010	<.050	.018	E.038	<10	14	197	E15
AUG											
01...	<.020	.24	.118	<.010	<.050	.017	E.046	--	--	--	--
SEP											
05...	<.020	.18	.057	<.010	<.050	.016	<.050	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
16...	E26	<8.0	<.1	<10	10	<100	<1	5	<.3	35	<31
JAN											
13...	63	<8.0	<.1	<10	20	<100	<1	6	<.3	64	<31
MAY											
16...	34	<8.0	<.1	<10	30	<100	<1	25	<.3	E17	<31
JUL											
05...	131	<8.0	<.1	<10	10	<100	<1	15	<.3	E10	<31

E--Laboratory estimated value.

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.--No estimated daily discharges. Records good. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	79	70	72	68	74	89	62	53	75	51	46
2	70	76	70	72	67	72	87	63	53	65	50	45
3	71	77	81	79	69	79	85	62	52	59	56	45
4	71	77	87	75	69	77	81	62	57	62	97	44
5	70	77	123	73	68	76	78	62	71	57	58	43
6	71	77	85	72	68	75	78	63	58	54	51	43
7	71	77	78	71	68	74	78	66	55	53	50	43
8	79	77	75	75	68	73	75	63	53	52	51	43
9	75	77	140	76	68	71	72	63	53	51	50	44
10	74	77	381	75	69	70	72	62	55	51	49	44
11	72	76	156	73	68	80	70	61	57	51	48	43
12	71	76	123	72	68	76	68	60	58	64	47	55
13	72	76	106	71	68	88	67	59	56	55	47	48
14	72	76	97	70	68	110	67	57	57	52	47	45
15	73	75	92	71	67	104	67	57	56	52	46	44
16	74	75	88	71	66	97	70	57	56	52	45	43
17	74	75	85	70	76	90	69	57	85	106	45	43
18	73	75	82	70	143	88	67	57	73	79	55	43
19	73	75	81	70	126	135	68	56	63	64	49	42
20	73	75	79	69	106	133	69	56	61	62	69	42
21	76	75	77	69	97	117	66	56	117	60	56	43
22	77	76	77	70	91	105	65	56	79	58	50	42
23	76	80	76	69	86	97	66	56	67	56	54	43
24	76	73	75	68	82	94	66	56	62	53	76	51
25	77	71	74	68	80	88	65	55	59	52	60	57
26	77	72	74	67	81	89	63	58	61	51	54	49
27	77	72	74	67	77	117	63	66	60	52	53	46
28	77	71	73	69	76	114	63	60	57	54	51	45
29	77	70	73	70	75	109	62	56	56	58	49	44
30	78	69	73	68	---	114	62	55	56	55	48	44
31	78	---	72	68	---	104	---	53	---	52	47	---
MEAN	74.1	75.1	96.7	71.0	78.7	93.2	70.6	59.1	61.9	58.6	53.5	45.1
MAX	79	80	381	79	143	135	89	66	117	106	97	57
MIN	70	69	70	67	66	70	62	53	52	51	45	42
IN.	.43	.42	.56	.41	.42	.54	.39	.34	.35	.34	.31	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000, BY WATER YEAR (WY)

MEAN	98.7	141	152	152	178	237	268	264	201	108	82.9	87.8
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1929 - 2000	
ANNUAL MEAN	154		69.8		164	
HIGHEST ANNUAL MEAN					391	1985
LOWEST ANNUAL MEAN					47.0	1954
HIGHEST DAILY MEAN	2350	May 5	381	Dec 10	19600	Dec 3 1982
LOWEST DAILY MEAN	69	Nov 30	42	Sep 19,20,22	24	1936,1954,1956
ANNUAL SEVEN-DAY MINIMUM	71	Nov 26	43	Sep 16	24	Aug 22 1936
INSTANTANEOUS PEAK FLOW	---		561	Dec 10	32500	Aug 14 1946
INSTANTANEOUS PEAK STAGE	---		3.86	Dec 10	16.60	Jun 17 1985
INSTANTANEOUS LOW FLOW	---		40	Sep 19	24	Several Years
ANNUAL RUNOFF (INCHES)	10.45		4.75		11.12	
10 PERCENT EXCEEDS	243		88		288	
50 PERCENT EXCEEDS	96		69		87	
90 PERCENT EXCEEDS	72		49		44	

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.--No estimated daily discharges. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	495	519	520	632	588	1230	1030	590	493	664	537	377
2	496	510	521	625	580	1160	1000	586	484	660	538	369
3	497	504	562	648	579	1140	975	586	479	611	518	363
4	495	504	657	650	578	1080	936	579	476	593	596	357
5	490	510	1300	635	570	1030	901	572	495	584	594	350
6	489	510	950	614	566	1010	879	571	485	548	551	346
7	488	510	887	713	566	1050	861	583	476	520	517	344
8	503	510	884	707	563	1100	832	576	470	505	503	343
9	509	510	1170	724	560	1100	794	570	464	498	488	345
10	505	514	3380	736	566	1050	773	559	462	502	497	345
11	512	510	4080	733	564	1050	766	553	468	500	554	345
12	511	510	3520	725	564	1010	744	549	474	513	504	389
13	524	513	2510	715	565	1000	727	537	475	496	474	392
14	518	517	1900	703	564	1080	715	523	481	530	461	376
15	507	512	1580	700	557	1110	704	509	487	635	454	363
16	507	515	1390	689	556	1120	705	503	484	555	444	357
17	521	513	1250	676	599	1090	698	503	529	614	433	350
18	513	511	1130	669	905	1070	681	498	564	562	449	350
19	510	513	1040	658	1200	1280	675	498	527	507	436	348
20	510	510	971	645	1460	1370	676	498	526	496	461	345
21	510	511	901	632	1440	1350	660	495	707	496	453	345
22	510	517	846	631	1530	1340	645	495	705	489	430	343
23	510	565	804	627	1460	1270	644	495	639	485	417	340
24	507	557	768	619	1320	1200	644	493	678	487	433	358
25	510	547	733	611	1210	1130	638	493	686	484	439	419
26	511	547	711	601	1150	1080	622	499	715	478	425	423
27	517	547	693	594	1090	1170	618	534	729	478	418	399
28	517	537	677	597	1300	1160	615	527	704	477	414	382
29	515	531	663	602	1340	1150	605	505	662	489	401	378
30	514	523	655	597	---	1150	594	499	632	491	387	378
31	513	---	642	592	---	1080	---	503	---	493	378	---
MEAN	508	520	1235	657	865	1136	745	532	555	530	471	364
MAX	524	565	4080	736	1530	1370	1030	590	729	664	596	423
MIN	488	504	520	592	556	1000	594	493	462	477	378	340
IN.	.21	.20	.50	.27	.33	.46	.29	.22	.22	.22	.19	.14

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

MEAN	1394	2350	2487	2442	2977	4059	4661	4351	3047	1546	1180	1276
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	2383		677		2635	
HIGHEST ANNUAL MEAN					6491	1985
LOWEST ANNUAL MEAN					544	1954
HIGHEST DAILY MEAN	24100	Feb 9	4080	Dec 11	121000	Dec 5 1982
LOWEST DAILY MEAN	454	Sep 17,18	340	Sep 23	259	Sep 21 1956
ANNUAL SEVEN-DAY MINIMUM	459	Sep 13	345	Sep 5	266	Sep 16 1956
INSTANTANEOUS PEAK FLOW	---		4750	Dec 11	136000	Dec 5 1982
INSTANTANEOUS PEAK STAGE	---		4.97	Dec 11	31.34	Dec 5 1982
INSTANTANEOUS LOW FLOW	---		340	Sep 7,8,20,22-24	254	Sep 21 1956
ANNUAL RUNOFF (INCHES)	11.39		3.25		12.61	
10 PERCENT EXCEEDS	5200		1110		5530	
50 PERCENT EXCEEDS	1030		556		1260	
90 PERCENT EXCEEDS	496		424		520	

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.--No estimated daily discharges. Records good. U.S. Army Corps of Engineers 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	546	549	567	730	650	1550	1320	680	597	767	534	411
2	536	546	564	717	644	1430	1250	672	574	768	566	405
3	533	543	586	726	637	1360	1200	717	551	770	601	399
4	538	539	667	737	634	1320	1150	703	540	714	637	395
5	528	543	1850	731	636	1260	1110	676	530	683	709	388
6	522	547	1760	712	629	1200	1070	673	532	666	691	379
7	518	550	1210	762	622	1180	1050	805	514	626	649	381
8	554	551	1060	801	622	1210	1020	765	498	590	604	379
9	591	552	1140	796	619	1250	991	766	484	565	579	378
10	570	548	3960	803	617	1250	963	725	477	547	556	381
11	553	550	4010	812	618	1250	940	690	475	546	532	383
12	553	549	4120	808	616	1230	922	666	490	549	608	421
13	557	550	3450	799	614	1180	895	647	494	556	573	429
14	561	550	2640	793	619	1240	873	631	498	530	534	428
15	562	549	2140	777	616	1350	854	612	501	531	506	405
16	552	549	1830	771	608	1360	838	602	507	670	489	387
17	550	552	1630	765	622	1350	849	596	577	654	476	379
18	556	553	1480	755	2790	1310	844	590	629	763	467	379
19	559	551	1340	742	2190	1560	812	583	683	715	466	378
20	553	548	1220	725	1780	2020	818	579	973	609	525	375
21	553	549	1130	712	1880	1860	791	576	1870	569	531	373
22	546	550	1040	711	1800	1740	779	573	1140	551	502	376
23	542	602	974	704	1840	1670	765	568	932	536	471	383
24	543	618	919	696	1740	1570	762	564	819	516	521	406
25	542	612	875	681	1590	1470	752	555	811	513	512	444
26	543	594	835	672	1490	1400	737	653	1070	517	496	461
27	546	592	809	659	1400	1460	726	1190	931	515	479	463
28	547	592	790	655	1320	1610	716	786	881	497	459	432
29	548	586	772	671	1520	1510	706	690	843	528	454	413
30	544	576	756	671	---	1460	692	635	793	511	439	419
31	545	---	746	661	---	1420	---	607	---	524	423	---
MEAN	548	561	1512	734	1102	1420	906	670	707	600	535	401
MAX	591	618	4120	812	2790	2020	1320	1190	1870	770	709	463
MIN	518	539	564	655	608	1180	692	555	475	497	423	373
IN.	.20	.20	.55	.27	.37	.52	.32	.24	.25	.22	.19	.14

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

MEAN	1678	2517	2516	2908	3244	4571	5656	5280	3802	1825	1370	1419
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	2713		808		3062	
HIGHEST ANNUAL MEAN					6560	1927
LOWEST ANNUAL MEAN					629	1954
HIGHEST DAILY MEAN	23300	Feb 10	4120	Dec 12	101000	Sep 28 1993
LOWEST DAILY MEAN	518	Oct 7	373	Sep 21	275	Sep 19 1954
ANNUAL SEVEN-DAY MINIMUM	532	Oct 1	378	Sep 17	279	Oct 6 1956
INSTANTANEOUS PEAK FLOW	---		5670	Jun 20	134000	Dec 6 1982
INSTANTANEOUS PEAK STAGE	---		6.11	Jun 20	33.27	Dec 6 1982
INSTANTANEOUS LOW FLOW	---		372	Sep 19-23	275	Sep 19 1954
ANNUAL RUNOFF (INCHES)	11.58		3.46		13.08	
10 PERCENT EXCEEDS	6060		1410		6510	
50 PERCENT EXCEEDS	1270		629		1490	
90 PERCENT EXCEEDS	542		470		569	

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.--No estimated daily discharges. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89200	62500	64700	47100	46600	58900	62800	46200	59100	118000	53900	48700
2	76000	62500	65200	47500	52900	58500	59800	46200	57100	108000	54400	48400
3	70800	63100	64200	47400	46600	60900	55700	46600	54900	99500	51900	49000
4	68900	65800	63300	47700	46600	60000	53700	47300	53300	96900	51000	46300
5	68300	65400	65700	48300	43500	55000	55100	47400	53000	86000	51600	44500
6	68400	63900	66900	52200	42300	48500	56700	46700	52800	74500	52300	43600
7	67700	63700	67200	51600	39000	47100	55500	53300	52400	76600	51500	43300
8	67600	63500	67400	50200	37800	48400	53900	48700	51800	82900	78100	43700
9	67300	63600	67600	51800	39100	45500	54400	46900	51300	87200	82600	46300
10	66400	63200	67000	49500	41000	44300	51800	50700	51500	76300	65500	45900
11	65900	62600	71200	47100	40900	47500	50800	50500	51200	74000	61200	44600
12	65200	62400	76400	46300	39000	47600	52200	49900	51500	76500	56800	46100
13	64500	62600	69600	46600	37600	44900	51100	48800	52100	76700	50900	51300
14	64200	62800	63200	47500	38200	44200	49300	48700	51100	74700	48100	46500
15	63900	62400	64800	49300	42500	47200	48800	47800	56900	69800	46400	45200
16	63800	62600	65700	49200	46100	45600	48900	46400	62900	63800	50900	44300
17	64700	62800	60800	47200	43400	45100	48000	46500	66700	58800	56000	43300
18	65000	62500	54100	47200	57100	52300	47200	47300	66100	57800	56400	42800
19	64500	62200	53100	54600	66800	60100	47100	48000	64200	68600	55000	42800
20	64500	62200	49600	52000	61200	55900	47300	49600	61200	69000	50800	42700
21	64600	62400	48200	46400	57200	52900	47600	49700	76200	61900	54100	42800
22	64500	62600	48100	50300	51500	63000	49200	49300	101000	57300	52000	44300
23	64800	63500	47900	48600	46400	63500	50000	49000	116000	54900	49500	44400
24	64900	64100	47000	44200	45500	63600	50200	49800	109000	53700	67100	47900
25	65000	65900	46700	45300	43100	64100	49500	51400	94800	52000	85400	46100
26	65400	67700	45900	55300	45200	55600	48400	58200	96000	50100	71300	45900
27	65500	67700	45100	57000	54800	51700	47900	94400	138000	49700	56400	47900
28	64000	67100	43900	52700	53600	56500	47800	100000	141000	49500	51300	49100
29	63400	66200	43100	52000	53500	68200	47500	89100	142000	52000	49100	50200
30	63900	65100	44000	49200	---	72200	46700	75300	130000	51800	51300	50200
31	63500	---	46100	44300	---	67800	---	62800	---	51600	49300	---
MEAN	66650	63820	57860	49210	46860	54730	51160	54600	75500	70330	56840	45940
MAX	89200	67700	76400	57000	66800	72200	62800	100000	142000	118000	85400	51300
MIN	63400	62200	43100	44200	37600	44200	46700	46200	51100	49500	46400	42700
IN.	.15	.14	.13	.11	.10	.12	.11	.12	.16	.15	.13	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2000[a], BY WATER YEAR (WY)

MEAN	80700	80990	64640	51780	68950	98150	123500	122400	119900	102400	75850	77790
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1958 - 2000[a]	
ANNUAL MEAN	113400		57840		88020	
HIGHEST ANNUAL MEAN					181800	1993
LOWEST ANNUAL MEAN					44980	1963
HIGHEST DAILY MEAN	294000	May 7	142000	Jun 29	739000	Jul 31 1993
LOWEST DAILY MEAN	43100	Dec 29	37600	Feb 13	6210	Dec 23 1963
ANNUAL SEVEN-DAY MINIMUM	45000	Dec 25	39100	Feb 8	7400	Dec 20 1963
INSTANTANEOUS PEAK FLOW	---		147000	Jun 27	750000	Jul 31 1993
INSTANTANEOUS PEAK STAGE	---		17.62	Jun 27	36.97	Jul 31 1993
INSTANTANEOUS LOW FLOW	---		37400	Feb 8	602	Dec 23 1963
ANNUAL RUNOFF (INCHES)	2.94		1.50		2.28	
10 PERCENT EXCEEDS	212000		71200		167000	
50 PERCENT EXCEEDS	89300		52900		69300	
90 PERCENT EXCEEDS	63000		45200		37400	

[a]Post-regulation period.

06934500 MISSOURI RIVER AT HERMANN, MO--Continued
(National stream-quality accounting network station)

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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)
OCT												
18...	1145	65000	.068	--	9.9	98	7.8	775	15.3	42	74	44
DEC												
08...	1020	67400	.069	.048	12.2	99	7.8	721	7.0	310	260	82
FEB												
15...	1030	40600	.063	.044	13.3	100	7.8	785	3.7	140	K180	76
MAR												
08...	1145	48400	.081	.058	11.1	103	8.3	663	11.6	92	220	98
APR												
04...	1010	53700	.092	.067	8.6	80	8.1	691	11.7	320	240	100
MAY												
05...	1030	47400	.065	.044	11.4	127	8.7	756	20.0	54	82	K7
30...	1300	75300	.149	.112	6.3	73	7.9	581	22.7	510	K740	770
JUN												
08...	1245	51800	.087	.062	9.1	107	8.4	813	23.8	K32	48	86
23...	1055	117000	.128	.095	5.4	65	7.8	587	23.8	1100	4600	1800
28...	1145	141000	.114	.083	3.8	46	7.6	500	24.9	1200	2200	840
JUL												
11...	1020	74000	.115	.085	5.7	76	7.8	546	29.6	520	1100	460
AUG												
10...	1305	64200	.098	.065	7.6	96	8.0	630	28.6	K280	240	240
25...	1030	88400	.141	.105	6.4	80	7.8	568	26.2	4400	6600	12000
SEP												
12...	1000	44200	.073	.051	6.1	77	8.2	790	26.7	68	100	32

DATE	ALKA-LINITY WAT DIS FIX END FIELD $CaCO_3$ (mg/L) (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)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	HARD-NESS NONCARB DISSOLV FLD. as $CaCO_3$ (mg/L) (00904)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)
OCT												
18...	160	157	192	0	240	86	59.3	23.0	5.9	69.6	21.4	.5
DEC												
08...	170	170	208	0	260	88	65.1	23.2	4.8	67.4	22.9	.5
FEB												
15...	210	203	252	0	280	72	72.4	23.5	5.9	60.8	30.8	.4
MAR												
08...	180	180	214	0	250	76	66.0	20.8	5.0	52.6	26.7	.4
APR												
04...	160	162	198	0	240	78	63.5	19.7	5.6	54.3	22.6	.5
MAY												
05...	160	158	164	14	250	92	61.2	23.3	6.0	67.0	26.1	.5
30...	120	120	146	0	180	62	45.6	16.5	5.3	48.4	18.1	.3
JUN												
08...	161	162	188	5	270	100	65.8	24.7	6.2	69.2	25.0	.4
23...	130	127	155	0	180	49	44.3	15.8	4.8	47.3	16.6	.4
28...	120	122	149	0	170	52	45.2	14.8	4.9	43.9	14.8	.4
JUL												
11...	130	132	162	0	180	50	49.4	14.4	5.5	46.8	14.3	.3
AUG												
10...	140	145	177	0	210	61	51.9	18.4	4.1	56.7	20.3	.4
25...	130	127	155	0	190	61	47.2	16.8	5.5	49.2	15.0	.4
SEP												
12...	162	162	198	0	250	87	59.9	23.9	5.9	75.3	22.3	.5

K--Results based on colony count outside the acceptable range (non-ideal colony count).

06934500 MISSOURI RIVER AT HERMANN, MO--Continued
(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SILICA, DIS-SOLVED (mg/L as SiO_2) (00955)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	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)	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	TUR-BID-ITY (NTU) (00076)
OCT												
18...	9.8	200	<.020	.23	.63	.452	<.010	.068	.050	.195	509	24
DEC												
08...	10.0	197	<.020	.24	.44	.816	<.010	.071	.043	.171	520	15
FEB												
15...	14.8	176	.068	.25	.53	1.42	.012	.087	.086	.191	541	9.1
MAR												
08...	13.8	141	<.020	.42	E.10	1.58	.015	.100	.082	.204	458	33
APR												
04...	12.6	151	<.020	.37	.91	.994	.015	.092	.067	.296	457	72
MAY												
05...	4.9	194	<.020	.23	.85	<.050	<.010	.029	.020	.186	498	18
30...	8.8	130	<.020	.47	1.5	1.36	.080	.104	.080	.505	374	120
JUN												
08...	8.3	191	<.020	.43	1.0	.564	.010	.069	.012	.218	505	30
23...	7.9	130	<.020	.47	1.5	.822	.060	.098	.051	.568	364	61
28...	8.0	119	<.020	.36	2.2	.916	.056	.077	.058	.933	344	240
JUL												
11...	10.1	113	<.020	.26	1.4	.989	.015	.126	.105	.560	348	190
AUG												
10...	7.6	148	<.020	.50	1.1	.249	<.010	.100	.061	.289	416	54
25...	7.2	127	.022	.42	1.4	.314	.013	.099	.072	.480	360	110
SEP												
12...	6.0	196	<.020	.28	.77	.072	<.010	.078	.066	.191	499	25

DATE	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BORON, DIS-SOLVED (µg/L as B) (01020)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LITHIUM DIS-SOLVED (µg/L as Li) (01130)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	STRON-TIUM, DIS-SOLVED (µg/L as Sr) (01080)	VANA-DIUM, DIS-SOLVED (µg/L as V) (01085)	CARBON, ORGANIC DIS-SOLVED (mg/L as C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (mg/L as C) (00689)	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)
OCT												
18...	2.8	152	20	45.3	E1.5	530	<10	7.4	1.4	<.003	<.002	<.002
DEC												
08...	2.6	140	20	41.2	E1.7	528	<10	3.3	.7	<.003	<.002	.004
FEB												
15...	2.7	143	<10	40.3	2.7	596	<10	3.2	.5	<.003	<.010	<.010
MAR												
08...	2.1	147	30	31.0	2.1	515	E4	4.3	2.5	<.003	<.002	.008
APR												
04...	3.1	126	60	32.5	2.4	501	<10	4.1	2.3	<.003	<.002	<.002
MAY												
05...	2.2	118	E10	44.7	E1.5	532	<10	5.3	3.3	<.003	.036	<.002
30...	3.1	129	150	28.4	2.5	383	<10	5.0	4.2	<.003	.513	.230
JUN												
08...	3.1	110	<10	38.5	<2.4	563	E7	3.8	2.2	<.003	.075	.027
23...	2.6	116	100	29.8	E1.6	351	<10	5.5	3.7	<.003	.075	.028
28...	E1.7	104	90	26.5	<2.4	338	<10	4.3	>5.0	<.003	.051	.026
JUL												
11...	2.8	117	90	24.1	E1.8	344	12	4.2	>5.0	<.003	.042	.021
AUG												
10...	2.8	202	60	31.1	<2.4	404	<10	100	3.6	<.003	<.002	<.002
25...	2.2	130	170	31.2	E1.5	363	<10	11	2.8	<.003	<.002	<.002
SEP												
12...	3.1	150	30	46.9	E1.9	547	E7	3.3	2.3	<.002	.015	<.002

E--Laboratory estimated value.

06934500 MISSOURI RIVER AT HERMANN, MO--Continued
(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	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 0.7 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)
OCT												
18...	.075	<.001	<.002	<.002	<.003	<.003	<.004	.030	<.002	E.005	<.002	<.001
DEC												
08...	.089	<.001	<.002	<.002	<.003	<.003	<.004	.008	<.002	E.021	<.002	<.001
FEB												
15...	.116	<.001	<.002	<.002	<.003	<.003	<.004	<.010	<.002	E.021	.007	<.001
MAR												
08...	.179	<.001	<.002	<.002	<.003	<.003	<.004	<.010	<.002	E.034	<.002	<.001
APR												
04...	.106	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.021	<.002	<.001
MAY												
05...	.265	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.024	<.002	<.001
30...	4.34	<.001	<.002	<.002	<.003	<.003	<.004	.102	<.002	E.250	.010	<.001
JUN												
08...	.825	<.001	<.002	<.002	<.003	<.003	<.004	.020	<.002	E.064	<.002	<.001
23...	1.14	<.001	<.002	<.002	<.003	<.003	<.004	.019	<.002	E.140	E.003	<.001
28...	.778	<.001	<.002	<.002	<.003	<.003	<.004	.015	<.002	E.150	E.004	<.001
JUL												
11...	.697	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.028	.006	<.001
AUG												
10...	.233	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.012	E.003	<.001
25...	.118	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.009	<.002	<.001
SEP												
12...	.125	<.050	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.006	<.005	<.005

DATE	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)	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)	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)
OCT												
18...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.029	<.004	<.004	<.003
DEC												
08...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.044	<.004	<.004	<.003
FEB												
15...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.050	<.004	<.004	<.003
MAR												
08...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.073	<.004	<.004	<.003
APR												
04...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.034	<.004	<.004	<.003
MAY												
05...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.087	<.004	<.004	<.003
30...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	1.69	.033	<.004	<.003
JUN												
08...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.235	.005	<.004	<.003
23...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.346	.010	<.004	<.003
28...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.348	.013	<.004	<.003
JUL												
11...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.328	<.004	<.004	<.003
AUG												
10...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.054	<.004	<.004	<.003
25...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.029	<.004	<.004	<.003
SEP												
12...	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	.032	<.006	<.002	<.007

E--Laboratory estimated value.

06934500 MISSOURI RIVER AT HERMANN, MO--Continued
(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PARA-THION, DIS-SOLVED (µg/L) (39542)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	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)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	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)	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	SI-MAZINE, WATER, DISS, REC (µg/L) (04035)
OCT											
18...	<.004	<.006	<.004	<.004	<.002	E.005	<.007	<.004	<.013	<.003	<.005
DEC											
08...	<.004	<.006	<.004	<.004	<.002	E.004	<.007	<.004	<.013	<.003	<.005
FEB											
15...	<.004	<.006	<.004	<.004	<.002	E.007	<.007	<.004	<.013	<.003	<.005
MAR											
08...	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005
APR											
04...	<.004	<.006	<.004	<.004	<.002	E.007	<.007	<.004	<.013	<.003	<.005
MAY											
05...	<.004	<.006	<.004	<.004	<.002	E.007	<.007	<.004	<.013	<.003	.009
30...	<.004	<.006	<.004	<.004	<.002	E.015	<.007	<.004	<.013	<.003	.180
JUN											
08...	<.004	<.020	<.004	<.004	<.002	E.013	<.007	<.004	<.013	<.003	.013
23...	<.004	.023	<.004	<.004	<.002	E.007	<.007	<.004	<.013	<.003	.032
28...	<.004	.026	<.004	<.004	<.002	E.012	<.007	<.004	<.013	<.003	.018
JUL											
11...	<.004	.072	<.004	<.004	<.002	E.013	<.007	<.004	<.013	<.003	.011
AUG											
10...	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.010
25...	<.004	<.006	<.004	<.004	<.002	E.008	<.007	<.004	<.013	<.003	.009
SEP											
12...	<.007	<.006	<.002	<.010	<.011	<.015	<.010	<.011	<.023	<.004	<.011

DATE	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)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	P,P' DDE DISSOLV (µg/L) (34653)	SEDI-MENT, SUS-PENDED (mg/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 mm (70331)
OCT											
18...	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006	133	62
DEC											
08...	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006	158	37
FEB											
15...	<.010	<.007	<.013	<.005	<.001	<.002	<.002	<.005	<.006	134	34
MAR											
08...	<.010	<.007	<.013	<.010	<.001	<.002	<.002	<.005	<.006	184	54
APR											
04...	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006	296	77
MAY											
05...	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006	138	64
30...	<.010	<.007	<.013	<.002	<.001	E.004	<.002	<.005	<.006	457	86
JUN											
08...	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006	158	65
23...	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006	660	80
28...	.012	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006	1120	84
JUL											
11...	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006	594	92
AUG											
10...	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006	208	75
25...	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006	504	88
SEP											
12...	<.016	<.034	<.017	<.005	<.002	<.009	<.005	<.006	<.002	123	70

E--Laboratory estimated value.

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 Highway 109, 1.56 mi north of Highway 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.--No estimated daily discharges. Records fair.

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	.08	.08	.08	.08	.12	.53	.49	.23	.74	.22	.55	.22
2	.06	.13	.08	.09	.12	.44	.46	.23	.61	6.3	.31	.21
3	.08	.12	.09	.22	.15	.47	.42	.20	.49	.94	.27	.19
4	.19	.10	.22	.25	.16	.41	.34	.19	.57	.33	.27	.17
5	.20	.09	1.5	.16	.15	.38	.31	.17	2.3	.25	.27	.14
6	.15	.10	.60	.14	.15	.34	.33	.16	.65	.56	.25	.13
7	.13	.11	.30	.12	.17	.32	1.2	246	.41	.36	.27	.12
8	3.4	.10	.19	.12	.16	.30	.77	13	.32	.19	14	.12
9	.58	.10	2.5	.15	.17	.30	.43	4.4	.27	.16	.76	.11
10	.32	.10	4.3	.15	.22	.28	.42	2.4	.22	.19	.51	.11
11	.14	.09	.58	.14	.21	.44	.41	1.7	.19	.20	.45	.11
12	.11	.09	.56	.12	.17	.70	.34	1.6	.22	4.1	.40	.31
13	.10	.08	.41	.11	.20	1.1	.33	1.2	.21	.96	.36	.23
14	.08	.08	.21	.10	.22	.73	.30	.91	.23	.31	.32	.19
15	.07	.08	.18	.10	.18	.54	.30	1.2	.33	.24	.29	.16
16	.06	.07	.16	.11	.18	.46	.36	.94	1.4	.24	.29	.13
17	.07	.07	.14	.13	.30	.40	.29	1.1	6.4	.27	.29	.10
18	.06	.07	.12	.18	57	.42	.25	.69	1.7	.26	.54	.09
19	.06	.07	.10	.19	1.6	1.2	.25	.43	.56	.30	.32	.07
20	.06	.07	.09	.17	.78	5.8	.27	.35	2.5	.28	1.2	.07
21	.07	.08	.07	.12	.56	1.4	.25	.32	15	.30	.39	.05
22	.09	.08	.06	.13	.47	.88	.23	.31	1.8	.32	.29	.06
23	.06	.45	.07	.14	.42	.68	.27	.36	.77	.30	.27	.07
24	.06	.43	.07	.11	.39	.74	.62	.30	228	.29	.97	.12
25	.06	.28	.06	.10	.40	.61	.63	.22	2.6	.30	.40	2.3
26	.06	.18	.06	.08	6.0	4.0	.35	1.1	28	.30	.29	.44
27	.07	.14	.08	.06	1.4	4.9	.32	31	1.9	.30	.26	.20
28	.08	.12	.08	.05	.73	1.3	.30	13	.49	.42	.23	.14
29	.08	.10	.08	.08	.57	.83	.28	2.9	.35	1.2	.20	.10
30	.08	.09	.10	.10	---	.63	.24	1.6	.26	.50	.17	.07
31	.08	---	.09	.11	---	.53	---	1.2	---	1.2	.19	---
MEAN	.22	.12	.43	.13	2.53	1.03	.39	10.6	9.98	.71	.83	.22
MAX	3.4	.45	4.3	.25	57	5.8	1.2	246	228	6.3	14	2.3
MIN	.06	.07	.06	.05	.12	.28	.23	.16	.19	.16	.17	.05
IN.	.05	.03	.11	.03	.59	.26	.09	2.66	2.42	.18	.21	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	.36	1.21	.83	4.78	7.13	6.05	2.98	4.80	8.13	2.17	.68	.27
MAX	.45	2.74	1.25	11.2	11.2	13.2	4.47	10.6	13.7	3.95	1.07	.51
(WY)	1999	1999	1998	1999	1999	1998	1998	2000	1998	1998	1998	1998
MIN	.22	.12	.43	.13	2.53	1.03	.39	1.29	.71	.71	.14	.006
(WY)	2000	2000	2000	2000	2000	2000	2000	1999	1999	2000	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	2.88		2.26		3.25	
HIGHEST ANNUAL MEAN					4.35	1998
LOWEST ANNUAL MEAN					2.26	2000
HIGHEST DAILY MEAN	200	Feb 7	246	May 7	246	May 7 2000
LOWEST DAILY MEAN	.00	Many Days Sep	.05	Jan 28,Sep 21	.00	Many Days Sep 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 6	.06	Oct 15	.00	Sep 6 1999
INSTANTANEOUS PEAK FLOW[a]	---		4930	Jun 24	4930	Jun 24 2000
INSTANTANEOUS PEAK STAGE	---		9.11	Jun 24	9.11	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.04	Sep 20-22	.00	Many Days Sep 1999
ANNUAL RUNOFF (INCHES)	8.48		6.68		9.59	
10 PERCENT EXCEEDS	4.5		1.4		4.6	
50 PERCENT EXCEEDS	.44		.26		.51	
90 PERCENT EXCEEDS	.05		.08		.10	

[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.--No estimated daily discharges. Water-discharge records fair except for period Oct. 1 to Feb. 17 and discharges above 1,000 ft^3/s, which are poor.

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	.42	.48	.64	.34	.97	1.6	1.9	.74	1.9	4.1	3.2	.39
2	.38	.63	.69	.28	.87	1.3	2.1	.67	1.8	9.0	1.4	.35
3	.92	.45	.82	3.7	1.2	1.4	2.1	.64	1.4	9.4	1.0	.34
4	1.1	.53	2.6	2.1	2.1	1.4	2.1	.60	2.2	3.8	.94	.34
5	.27	.34	12	.74	1.7	1.2	2.0	.60	4.6	2.9	.87	.34
6	.20	.34	.64	.55	1.7	1.1	2.1	.85	1.9	2.5	.87	.32
7	.23	.54	.36	.74	1.8	1.1	6.4	932	1.4	3.3	1.2	.33
8	10	.29	.70	1.1	2.0	1.1	3.3	22	1.1	2.1	51	.34
9	2.4	.48	13	1.1	2.2	1.0	2.1	9.4	1.1	2.0	4.2	.34
10	.87	.32	19	1.2	2.8	1.0	1.9	6.1	1.0	1.7	1.9	.34
11	.54	.30	2.4	1.3	2.9	1.9	1.8	4.2	1.1	1.5	1.2	.34
12	.38	.49	1.3	1.3	2.8	2.3	1.5	3.6	1.2	2.0	.95	4.8
13	.46	.87	1.5	.55	4.6	3.2	1.2	2.8	1.3	10	.92	.56
14	.30	.43	1.5	.47	7.5	2.6	1.1	2.0	1.2	2.3	.80	.26
15	.50	.59	1.4	.39	6.0	2.3	1.1	1.8	.98	1.6	.69	.22
16	.47	.51	1.2	.34	5.6	1.8	1.2	1.6	2.6	1.3	.64	.20
17	.55	.43	1.0	.65	11	1.6	1.0	1.4	6.0	1.8	.90	.20
18	.41	.39	1.1	1.7	254	1.7	.93	1.4	2.9	1.6	2.0	.20
19	.35	.35	1.1	1.2	7.1	4.4	.79	1.4	1.6	1.3	1.7	.20
20	.34	.28	1.0	.89	3.2	14	.81	1.2	3.5	1.2	5.4	.28
21	.28	.24	.84	.87	2.1	5.4	.87	1.2	19	1.1	2.8	.29
22	.34	.36	.74	.87	1.6	3.2	.73	1.4	3.1	.98	1.3	.29
23	.28	7.2	.64	.98	1.6	2.4	1.2	1.6	2.8	.97	.87	.34
24	.24	3.7	.61	.97	2.1	2.6	3.5	1.0	648	.80	4.1	2.5
25	.25	1.7	.48	.79	2.8	2.4	2.0	.89	22	.74	3.4	14
26	.27	2.7	.48	.71	16	4.5	1.5	7.1	98	.74	1.6	3.4
27	.29	1.1	.46	.71	5.3	15	1.5	47	15	.94	2.0	1.2
28	.31	1.2	.42	.71	2.7	4.8	1.1	25	7.8	2.4	1.1	.71
29	.34	.94	.39	.71	1.9	3.1	1.0	5.0	5.5	5.8	.70	.52
30	.34	.75	.45	.86	---	2.4	.81	3.0	4.8	2.3	.60	.52
31	.36	---	.39	1.0	---	2.0	---	2.3	---	1.4	.45	---
MEAN	.79	.96	2.25	.96	12.3	3.09	1.72	35.2	28.9	2.70	3.25	1.15
MAX	10	7.2	19	3.7	254	15	6.4	932	648	10	51	14
MIN	.20	.24	.36	.28	.87	1.0	.73	.60	.98	.74	.45	.20
IN.	.08	.09	.22	.10	1.15	.31	.17	3.50	2.78	.27	.32	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	2.00	3.75	2.89	10.3	24.0	18.0	9.74	16.1	18.5	5.09	2.57	1.76
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	1.74	.96	12.3	3.09	1.72	5.38	3.31	1.08	1.44	.69
(WY)	2000	2000	1999	2000	2000	2000	2000	1999	1999	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	8.26		7.74		9.54	
HIGHEST ANNUAL MEAN					12.3	1998
LOWEST ANNUAL MEAN					7.74	2000
HIGHEST DAILY MEAN	754	Feb 7	932	May 7	932	May 7 2000
LOWEST DAILY MEAN	.20	Oct 6	.20	Oct 6,Sep 16-19	.20	Oct 6 1999, Sep 16-19 2000
ANNUAL SEVEN-DAY MINIMUM	.28	Oct 21	.22	Sep 14	.22	Sep 14 2000
INSTANTANEOUS PEAK FLOW[a]	---		3540	Jun 24	3540	Jun 24 2000
INSTANTANEOUS PEAK STAGE	---		19.62	Jun 24	19.62	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.17	Dec 6,7	.17	Dec 6 1999
ANNUAL RUNOFF (INCHES)	9.68		9.10		11.18	
10 PERCENT EXCEEDS	12		5.4		13	
50 PERCENT EXCEEDS	1.7		1.2		2.2	
90 PERCENT EXCEEDS	.43		.34		.60	

[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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
DEC												
05...	0233	41	7.0	65	7.3	557	11.7	73000	K74000	8000	178	184
JAN												
05...	1010	.71	12.2	89	7.3	606	2.8	K83	K18	580	205	208
FEB												
28...	1101	2.8	9.1	78	7.2	508	8.9	1300	2900	600	136	137
MAY												
27...	0234	50	6.6	71	7.6	384	18.5	22000	22000	68000	128	128
JUN												
14...	1145	1.1	4.5	55	7.7	607	24.8	K100	320	440	197	198
JUL												
31...	1045	1.4	5.7	66	7.4	512	22.6	440	370	310	176	181

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	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, ORGANIC TOTAL (mg/L as N) (00605)	NITRO-GEN, TOTAL (mg/L as N) (00600)	NITRO-GEN, AMMONIA TOTAL (mg/L as NH_4) (71845)
DEC												
05...	225	0	220	66.0	13.0	--	.93	.09	.2	.84	1.1	.12
JAN												
05...	253	0	250	74.0	16.0	45.0	.24	.09	.3	.15	.57	.12
FEB												
28...	167	0	170	53.0	9.60	47.0	.58	.10	1.0	.48	1.6	.13
MAY												
27...	156	0	150	46.0	8.20	--	1.5	.31	.4	1.2	1.9	.40
JUN												
14...	242	0	240	74.0	14.0	--	.40	.11	.3	.29	.70	.14
JUL												
31...	221	0	200	63.0	11.0	--	.65	.06	.3	.59	1.0	.08

DATE	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, TOTAL (mg/L as NO_3) (71887)	PHOS-PHATE, TOTAL (mg/L as PO_4) (00650)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	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)
DEC												
05...	<.01	5.0	--	E.240	.320	18	64	105	1.6	<1	<1.0	6.1
JAN												
05...	<.01	2.5	--	E.060	.080	19	11	25	<1.0	<1	<1.0	<1.0
FEB												
28...	<.01	7.0	.399	.130	.160	15	38	192	<1.0	<1	<1.0	<1.0
MAY												
27...	<.01	8.3	--	E.310	.480	5.8	310	212	1.9	<1	<1.0	<1.0
JUN												
14...	<.01	3.1	--	E.080	.100	7.3	23	95	2.1	<1	<1.0	<1.0
JUL												
31...	E.01	4.4	--	E.090	.150	13	23	124	2.4	<1	<1.0	2.4

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

06935770 BONHOMME CREEK NEAR CLARKSON VALLEY, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	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)	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)	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)
DEC 05...	1	160	<1	160	<.1	2	<1.0	<1	70	<.10	<.10	<.10
JAN 05...	1	40	<1	200	<.1	<1	<1.0	<1	21	--	--	--
FEB 28...	1	180	<1	180	<.1	2	<1.0	<1	43	--	--	--
MAY 27...	2	240	<1	120	<.1	2	<1.0	<1	58	<.10	<.10	<.10
JUN 14...	<1	150	<1	360	<.1	2	<1.0	<1	25	--	--	--
JUL 31...	2	190	<1	190	<.1	2	<1.0	<1	5	--	--	--

DATE	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (µg/L) (34556)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	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-NAPH-THALENE TOTAL (µg/L) (34581)
DEC 05...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2
MAY 27...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2

DATE	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 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)
DEC 05...	<2	<3	<2	<3	<2	<2	<3	<2	<2	<.013	<2	<2.2
MAY 27...	<2	<3	<2	<3	<2	<2	<3	<2	<2	<.013	<2	<2.2

DATE	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)	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)
DEC 05...	<.10	<.10	<2	<.10	<.10	<40	<3	<3	<3	<2	<3	<3
MAY 27...	<.10	<.10	<2	<.10	<.10	<40	<3	<3	<3	<2	<3	<3

DATE	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)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)	CHRY-SENE TOTAL (µg/L) (34320)
DEC 05...	<2	<2	<20	<.20	<.20	<.1	<.10	E.1	.18	<.01	<3
MAY 27...	<2	<2	<10	<.20	<.20	<.1	<.10	<.2	<.10	E.01	<3

E--Laboratory estimated value.

06935770 BONHOMME CREEK NEAR CLARKSON VALLEY, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	CYCLOPENTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)
DEC 05...	<.10	<2	<.02	.04	.13	<.2	<.009	<2	<.2	<2	<3
MAY 27...	<.10	<2	<.02	.12	<.10	<.2	<.009	<2	<.2	<2	<3

DATE	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)	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)	ETHION, TOTAL (µg/L) (39398)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FLUOR-ANTHENE TOTAL (µg/L) (34376)
DEC 05...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	<2
MAY 27...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	<2

DATE	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	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)
DEC 05...	<2	<.01	<.10	<.009	<.011	<2	<2.6	<3	<2	<.012	<.03
MAY 27...	<2	<.01	<.10	<.009	<.011	<2	<2.6	<3	<2	<.012	<.03

DATE	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	MIREX, TOTAL (µg/L) (39755)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	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)
DEC 05...	<.01	<.01	<.2	<.2	<.01	<.20	<2.1	<4	<3	<2	<3
MAY 27...	<.01	<.01	<.2	<.2	<.01	<.20	<2.1	<4	<3	<2	<3

DATE	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	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)	PCNS UNFILT RECOVER (µg/L) (39250)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PER-THANE TOTAL (µg/L) (39034)	PHENAN-THRENE TOTAL (µg/L) (34461)
DEC 05...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	6	<.1	<2
MAY 27...	<.10	<.014	<.016	<.017	<3	<.01	<.1	--	E1	--	<2

DATE	PHENOL TOTAL (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TOX-APHENE, TOTAL (µg/L) (39400)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	TOTAL TRI-THION (µg/L) (39786)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC 05...	<3	<.02	<2	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2
MAY 27...	<3	<.02	<2	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2

E--Laboratory estimated value.

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. Highway 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.--Daily discharges below 7 ft^3/s are estimated. Records poor.

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	6.3	8.6	4.5	4.0	5.0	7.1	6.7	5.4	8.7	13	20	7.5
2	6.1	14	4.0	7.0	4.0	6.2	6.3	5.6	8.0	54	8.0	7.0
3	7.6	5.6	5.0	11	7.0	7.2	6.1	5.3	7.6	34	6.5	6.8
4	12	4.6	7.6	10	10	6.9	5.5	5.1	7.5	16	6.0	6.3
5	7.4	4.3	20	6.9	8.0	5.9	5.8	4.9	15	12	5.8	6.0
6	6.4	4.0	12	5.5	7.0	5.6	5.5	4.7	9.1	11	5.5	5.8
7	6.1	3.8	8.5	5.0	8.0	5.4	15	1920	8.0	18	7.0	5.5
8	32	8.0	7.3	4.8	9.0	5.2	11	69	7.4	11	100	5.3
9	22	4.1	13	6.5	12	5.0	7.3	28	7.0	9.7	10	5.1
10	15	7.0	40	5.0	14	4.8	6.4	20	6.8	9.2	7.0	5.0
11	10	5.0	13	4.5	9.5	6.4	5.8	14	6.6	8.8	5.5	8.0
12	8.4	4.1	8.0	4.2	8.0	10	5.3	11	7.7	8.7	5.0	11
13	7.0	5.0	6.0	3.8	10	12	5.1	9.2	12	20	7.0	7.0
14	5.9	10	4.8	3.6	19	9.1	4.9	8.3	10	10	5.5	6.0
15	8.0	6.0	4.0	3.5	13	7.4	4.7	8.0	9.0	8.8	5.0	5.3
16	7.5	8.0	3.8	3.4	12	6.1	5.7	7.7	8.4	8.4	4.8	5.0
17	8.5	6.0	5.0	5.2	14	5.4	6.7	8.2	25	8.7	6.0	4.7
18	6.5	5.0	5.2	8.2	472	5.8	5.3	7.6	15	8.7	10	4.3
19	6.0	4.1	4.8	5.4	25	14	5.3	7.4	8.1	9.3	7.0	4.1
20	5.7	7.0	4.6	4.6	13	30	5.5	7.4	8.4	8.2	20	8.0
21	5.0	5.0	4.3	4.2	9.0	18	5.3	7.3	54	7.8	9.0	6.0
22	6.0	4.1	4.1	4.0	9.4	10	5.2	7.2	15	7.4	7.0	5.5
23	5.5	11	4.0	5.1	7.2	8.7	5.4	9.0	13	8.0	6.0	5.0
24	5.0	12	6.0	5.5	6.3	9.0	12	7.8	1140	7.7	15	10
25	6.0	5.0	5.0	5.1	6.0	8.1	10	7.1	60	7.4	10	46
26	5.5	7.0	4.5	4.8	25	8.0	6.5	11	189	7.2	7.0	20
27	5.0	5.0	4.2	4.6	17	36	6.2	88	37	7.0	20	9.4
28	4.8	6.0	4.1	4.4	9.5	14	7.0	51	24	10	12	7.7
29	4.7	5.5	4.0	4.3	8.0	9.1	6.2	16	17	30	9.0	7.3
30	4.6	5.0	5.0	5.0	---	7.4	5.4	11	13	10	8.5	7.2
31	6.0	---	4.2	6.0	---	7.0	---	9.6	---	7.0	8.1	---
MEAN	8.15	6.33	7.44	5.33	26.8	9.70	6.64	76.8	58.6	12.8	11.7	8.26
MAX	32	14	40	11	472	36	15	1920	1140	54	100	46
MIN	4.6	3.8	3.8	3.4	4.0	4.8	4.7	4.7	6.6	7.0	4.8	4.1
IN.	.55	.41	.50	.36	1.69	.65	.43	5.18	3.82	.86	.79	.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	10.7	24.5	10.1	22.6	52.4	34.4	19.1	30.2	36.3	18.3	14.3	10.8
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	26.8	9.70	6.64	12.5	8.40	10.6	8.36	4.33
(WY)	2000	2000	1999	2000	2000	2000	2000	1999	1999	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL MEAN	17.8		19.8		23.1	
HIGHEST ANNUAL MEAN					30.4	1998
LOWEST ANNUAL MEAN					18.5	1999
HIGHEST DAILY MEAN	1480	Feb 7	1920	May 7	1920	May 7 2000
LOWEST DAILY MEAN	3.5	Sep 26	3.4	Jan 16	3.4	Jan 16 2000
ANNUAL SEVEN-DAY MINIMUM	3.7	Sep 21	4.0	Jan 10	3.7	Sep 21 1999
INSTANTANEOUS PEAK FLOW[a]	---		10900	Jun 24	10900	Jun 24 2000
INSTANTANEOUS PEAK STAGE	---		14.95	Jun 24	14.95	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		3.8[b]	Jan 13	3.5	Sep 25 1999
ANNUAL RUNOFF (INCHES)	14.11		15.80		18.34	
10 PERCENT EXCEEDS	23		17		34	
50 PERCENT EXCEEDS	8.0		7.0		9.1	
90 PERCENT EXCEEDS	4.1		4.6		5.1	

[a]From rating extended above 544 ft^3/s.
[b]Observed, may have been less during period of estimated record.

06935850 CREVE COEUR CREEK AT CHESTERFIELD, MO

LOCATION.--Lat 38°38'47", long 90°31'35", 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.--No estimated daily discharges. Records fair except for discharges above 400 ft^3/s and those below 1 ft^3/s, which are poor.

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	.15	4.3	.27	.25	.65	1.7	.63	.37	1.1	3.8	.88	.31
2	.26	1.6	.26	.31	.48	1.5	.62	.44	1.4	22	.43	.31
3	3.8	.40	1.1	8.0	.74	2.9	.63	.36	.90	6.3	.35	.26
4	1.4	.36	2.5	1.7	.89	1.7	.53	.43	5.8	2.2	.25	.34
5	.42	.24	13	.66	.64	1.4	.54	.70	4.8	1.4	.76	.28
6	.34	.28	1.6	.54	.53	1.3	.66	1.0	.95	1.1	.50	.20
7	.22	.31	.65	.45	.49	1.5	12	480	.72	1.1	.94	.29
8	27	.31	.45	.92	.45	1.9	1.6	7.2	.49	1.0	74	.19
9	24	.35	19	.89	.45	1.8	.70	4.0	.38	1.0	2.1	.17
10	1.9	.34	13	.55	.53	1.7	.57	2.0	.42	.91	.73	.22
11	1.0	.31	1.4	.43	.43	6.7	.52	1.6	2.9	.78	.47	.25
12	.72	.26	3.4	.50	.35	4.5	.45	1.6	4.5	1.5	.34	11
13	.66	.22	1.0	.48	1.4	3.5	.47	1.1	2.1	1.6	.28	.54
14	.42	.23	.66	.39	1.1	1.7	.47	.97	5.1	.55	.35	.35
15	.33	.20	.64	.41	.64	1.4	.47	.87	1.3	.51	.30	.21
16	.25	.19	.50	.41	.51	1.2	1.6	.97	7.3	.48	.32	.16
17	.36	.18	.48	2.2	5.4	.95	.93	1.8	11	5.9	.80	.13
18	.43	.18	.42	1.7	78	2.1	.55	1.3	2.1	1.0	4.0	.13
19	.32	.18	.36	.86	6.1	12	.83	1.0	1.0	1.1	.39	.12
20	.32	.16	.35	.60	2.9	19	1.7	.90	12	.79	8.0	.12
21	.32	.15	.28	.42	2.0	3.1	1.9	.86	22	.67	.86	.12
22	.27	.17	.23	.44	2.0	1.7	2.1	2.4	1.6	.56	.53	.42
23	.24	8.3	.26	.47	1.9	1.5	4.5	2.9	.90	.50	.40	.30
24	.30	1.3	.27	.33	2.8	2.5	7.5	.64	385	.35	11	6.2
25	.29	.60	.20	.34	5.8	1.4	1.2	.36	8.9	.31	.90	42
26	.36	.49	.25	.24	18	14	.57	15	116	.34	.68	1.7
27	.41	.54	.26	.16	3.9	10	2.4	70	5.9	.34	.94	.55
28	.58	.43	.27	.19	1.7	1.3	.83	13	2.8	17	.57	.55
29	.80	.34	.28	.32	1.8	.88	.65	1.8	2.0	13	.40	.22
30	.49	.29	.28	.51	---	.74	.43	1.4	3.2	1.2	.37	.13
31	.63	---	.26	.63	---	.66	---	1.1	---	3.3	.37	---
MEAN	2.23	.77	2.06	.85	4.92	3.49	1.62	19.9	20.5	2.99	3.65	2.26
MAX	27	8.3	19	8.0	78	19	12	480	385	22	74	42
MIN	.15	.15	.20	.16	.35	.66	.43	.36	.38	.31	.25	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	3.14	4.28	2.40	6.11	9.12	8.02	6.14	10.1	14.5	5.69	3.59	1.48
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	2.06	.85	4.92	3.49	1.62	4.36	3.13	1.00	1.55	.33
(WY)	1998	2000	2000	2000	2000	2000	2000	1998	1999	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	4.67		5.43		6.31	
HIGHEST ANNUAL MEAN					8.03	1998
LOWEST ANNUAL MEAN					5.43	2000
HIGHEST DAILY MEAN	84	May 12	480	May 7	480	May 7 2000
LOWEST DAILY MEAN	.02	Sep 17,24	.12	Sep 19-21	.02	Sep 17,24 1999
ANNUAL SEVEN-DAY MINIMUM	.06	Sep 21	.14	Sep 15	.06	Sep 21 1999
INSTANTANEOUS PEAK FLOW[a]	---		1890	Jun 24	1890	Jun 24 2000
INSTANTANEOUS PEAK STAGE	---		15.88	Jun 24	15.88	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.09	Sep 20	.02	Sep 17,24 1999
10 PERCENT EXCEEDS	12		6.4		11	
50 PERCENT EXCEEDS	1.4		.66		1.4	
90 PERCENT EXCEEDS	.18		.25		.26	

[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.--Estimated daily discharges: Dec. 24, and Dec. 26 to Jan. 1. Water-discharge records fair except for estimated daily discharges, which are poor.

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	.69	4.5	1.8	1.6	2.4	4.2	3.5	3.4	4.3	12	8.1	4.7
2	1.1	17	1.9	1.5	2.3	3.2	3.5	3.1	4.3	19	4.0	4.6
3	6.0	3.6	3.1	24	2.4	5.6	3.5	3.2	4.1	21	3.4	4.0
4	10	3.0	4.5	8.8	3.0	5.3	3.4	3.1	3.9	6.9	3.0	3.9
5	3.0	3.2	36	3.1	2.3	3.5	3.2	3.1	19	5.5	4.7	4.2
6	2.3	2.6	12	2.3	2.1	3.1	3.0	4.5	4.7	5.0	5.4	3.5
7	2.1	2.6	3.7	3.0	2.0	2.9	39	2300	3.6	4.6	6.9	3.3
8	88	2.8	2.6	4.2	2.0	2.9	11	33	3.2	4.8	186	3.1
9	54	3.4	37	5.7	2.0	3.0	4.8	16	2.9	4.1	12	3.2
10	8.3	3.1	65	3.2	2.1	2.7	4.1	8.2	2.7	3.6	5.3	4.2
11	4.0	3.1	7.4	2.3	2.0	11	4.0	5.4	14	4.3	4.0	4.2
12	2.8	3.0	11	2.1	1.8	13	3.6	4.6	24	3.4	3.4	29
13	2.1	2.9	5.8	1.9	3.0	11	3.5	4.2	13	8.2	3.0	6.0
14	1.9	2.9	3.5	1.9	4.8	5.4	3.3	3.4	14	3.7	2.8	4.2
15	2.1	2.8	2.7	1.7	2.7	4.4	3.3	3.3	7.2	3.4	2.7	3.3
16	2.0	2.7	2.4	1.7	2.1	3.8	4.6	3.7	13	2.9	2.6	2.9
17	2.0	2.7	2.1	2.9	6.6	3.2	5.9	3.7	41	10	3.3	2.7
18	2.1	2.8	1.9	8.9	1300	4.2	3.7	4.2	9.5	5.9	16	2.9
19	2.4	2.9	1.8	3.7	18	30	3.5	3.5	4.7	4.7	3.8	3.1
20	2.4	2.9	1.7	2.4	8.5	48	3.5	3.2	6.8	3.5	25	2.8
21	2.9	2.9	1.5	1.9	5.5	11	3.6	3.1	84	3.1	6.3	3.0
22	3.1	2.9	1.4	1.8	4.4	6.6	3.1	3.5	7.2	2.8	4.1	3.9
23	2.3	19	1.5	1.8	3.9	5.0	4.8	12	4.5	2.3	3.1	4.2
24	2.3	10	1.3	1.7	3.7	5.5	31	3.5	2520	2.2	36	14
25	2.2	3.8	1.5	1.5	4.0	5.2	9.5	2.3	48	2.3	6.8	115
26	2.5	2.8	1.6	1.6	40	10	4.5	51	527	2.1	4.5	11
27	3.0	2.4	1.7	1.4	13	55	7.4	256	21	1.9	5.5	4.3
28	2.7	2.3	1.8	1.4	5.3	7.0	7.1	65	11	346	5.1	2.6
29	3.1	2.3	1.9	1.5	4.4	4.8	4.2	8.5	7.8	65	4.3	1.8
30	3.1	1.9	1.8	1.9	---	4.2	3.6	5.8	7.5	12	4.3	1.5
31	3.3	---	1.7	2.1	---	3.9	---	4.9	---	7.9	4.4	---
MEAN	7.41	4.16	7.28	3.40	50.2	9.31	6.56	91.4	115	18.8	12.6	8.70
MAX	88	19	65	24	1300	55	39	2300	2520	346	186	115
MIN	.69	1.9	1.3	1.4	1.8	2.7	3.0	2.3	2.7	1.9	2.6	1.5
IN.	.39	.21	.38	.18	2.46	.49	.33	4.79	5.81	.99	.66	.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	8.46	13.1	7.15	33.0	66.5	48.6	27.7	51.1	80.1	16.0	15.1	6.78
MAX	11.5	21.8	8.75	75.4	95.9	110	48.2	91.4	115	22.0	28.6	10.6
(WY)	1999	1999	1998	1999	1999	1998	1998	2000	2000	1998	1998	1998
MIN	6.51	4.16	5.43	3.40	50.2	9.31	6.56	20.3	21.3	4.05	4.90	1.15
(WY)	1998	2000	1999	2000	2000	2000	2000	1998	1999	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	27.4		27.7		31.2	
HIGHEST ANNUAL MEAN					37.0	1998
LOWEST ANNUAL MEAN					27.7	2000
HIGHEST DAILY MEAN	2170	Feb 7	2520	Jun 24	2520	Jun 24 2000
LOWEST DAILY MEAN	.20	Sep 17	.69	Oct 1	.20	Sep 17 1999
ANNUAL SEVEN-DAY MINIMUM	.30	Sep 15	1.5	Dec 20	.30	Sep 15 1999
INSTANTANEOUS PEAK FLOW[a]	---		7330	Jun 24	7330	Jun 24 2000
INSTANTANEOUS PEAK STAGE	---		16.43	Jun 24	16.43	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.54	Oct 1	.16	Sep 17 1999
ANNUAL RUNOFF (INCHES)	16.89		17.13		19.28	
10 PERCENT EXCEEDS	37		18		36	
50 PERCENT EXCEEDS	4.9		3.6		5.1	
90 PERCENT EXCEEDS	1.2		1.9		1.9	

[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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
DEC 09...	2130	97	4.6	39	7.1	407	9.4	K2700	4400	11000	93	96
JAN 05...	1145	3.1	12.3	86	6.9	591	1.4	1000	2600	2700	131	142
FEB 28...	1257	5.4	9.7	87	7.3	704	11.0	K110	230	350	115	119
MAY 07...	1138	5580	7.6	83	7.0	165	19.4	30000	36000	150000	43	40
JUN 19...	1310	4.6	5.0	62	7.7	519	27.0	K680	1000	K250	123	127
JUL 31...	1255	5.4	5.2	60	7.4	480	23.2	K700	1200	K760	116	117

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	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, ORGANIC TOTAL (mg/L as N) (00605)	NITRO-GEN, TOTAL (mg/L as N) (00600)	NITRO-GEN, AMMONIA TOTAL (mg/L as NH_4) (71845)
DEC 09...	117	0	130	37.0	9.40	--	1.1	.14	.2	.96	1.3	.18
JAN 05...	173	0	190	53.0	13.0	68.0	.64	.14	.5	.50	1.2	.18
FEB 28...	145	0	170	48.0	12.0	120	.82	.06	.5	.76	1.3	.08
MAY 07...	49	0	52	15.0	3.50	--	1.9	.16	.4	1.7	2.3	.21
JUN 19...	155	0	150	45.0	10.0	--	.72	.11	.5	.61	1.2	.14
JUL 31...	143	0	--	43.0	--	--	.88	.10	.6	.78	1.4	.13

DATE	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, TOTAL (mg/L as NO_3) (71887)	PHOS-PHATE, TOTAL (mg/L as PO_4) (00650)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	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)
DEC 09...	<.01	5.8	--	E.500	.620	16	450	466	1.8	<1	<1.0	1.7
JAN 05...	<.01	5.2	--	E.130	.180	29	42	115	1.3	<1	<1.0	<1.0
FEB 28...	<.01	5.8	.399	.130	.180	12	48	216	1.7	<1	<1.0	<1.0
MAY 07...	<.01	10.1	--	E.560	.790	7.6	470	693	2.8	<1	<1.0	<1.0
JUN 19...	<.01	5.4	--	E.170	.220	4.5	29	106	3.1	<1	<1.0	<1.0
JUL 31...	E.01	6.3	--	E.170	.220	9.8	27	106	3.0	<1	<.5	1.6

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

06935890 CREVE COEUR CREEK NEAR CREVE COEUR, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	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)	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)	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)
DEC 09...	2	640	<1	210	<.1	3	<1.0	<1	160	<.10	<.10	<.10
JAN 05...	2	150	<1	170	<.1	2	<1.0	<1	47	--	--	--
FEB 28...	4	210	<1	130	<.1	2	<1.0	<1	140	--	--	--
MAY 07...	3	820	2	220	<.1	3	<1.0	<1	79	<.10	<.10	<.10
JUN 19...	2	210	<1	170	<.1	2	<1.0	<1	120	--	--	--
JUL 31...	3	170	<1	98	<.1	2	<1.0	<1	63	--	--	--

DATE	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (µg/L) (34556)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	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-NAPH-THALENE TOTAL (µg/L) (34581)
DEC 09...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2
MAY 07...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2

DATE	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 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)
DEC 09...	<2	<3	<2	<3	<2	<2	<3	<2	<2	<.013	<2	<2.2
MAY 07...	<2	<3	<2	<3	<2	<2	<3	<2	<2	<.013	<2	<2.2

DATE	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)	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)
DEC 09...	<.10	<.10	<2	<.10	<.10	<40	E.097	E.202	<3	<2	E.088	<3
MAY 07...	<.10	<.10	<2	<.10	<.10	<40	E.060	E.069	<3	<2	E.044	<3

DATE	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)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)	CHRY-SENE TOTAL (µg/L) (34320)
DEC 09...	<2	<2	<20	<.20	<.20	<.1	<.10	<.2	<.10	E.01	E.139
MAY 07...	<2	<2	E2.9	<.20	<.20	<.1	<.10	<.2	<.10	E.01	E.069

E--Laboratory estimated value.

06935890 CREVE COEUR CREEK NEAR CREVE COEUR, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	CYCLOPENTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)
DEC 09...	<.10	<2	<.02	.04	<.10	<.2	<.009	<2	<.2	<2	<3
MAY 07...	<.10	<2	<.02	.61	<.10	<.2	<.009	<2	<.2	<2	<3

DATE	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)	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)	ETHION, TOTAL (µg/L) (39398)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FLUOR-ANTHENE TOTAL (µg/L) (34376)
DEC 09...	<5	<.12	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	E.404
MAY 07...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	E.132

DATE	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	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)
DEC 09...	<2	<.01	<.10	<.009	<.011	<2	<2.6	E.087	E.092	<.012	<.03
MAY 07...	<2	<.01	<.10	<.009	<.011	<2	<2.6	E.060	E.082	<.012	<.03

DATE	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	MIREX, TOTAL (µg/L) (39755)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	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)
DEC 09...	<.01	<.01	<.2	<.2	<.01	<.20	<2.0	<4	<3	<2	<3
MAY 07...	<.01	<.01	.7	<.2	<.01	<.20	<2.1	<4	<3	<2	<3

DATE	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	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)	PCNS UNFILT RECOVER (µg/L) (39250)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PER-THANE TOTAL (µg/L) (39034)	PHENAN-THRENE TOTAL (µg/L) (34461)
DEC 09...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	<4	<.1	E.186
MAY 07...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	<4	<.1	E.072

DATE	PHENOL TOTAL (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TOX-APHENE, TOTAL (µg/L) (39400)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	TOTAL TRI-THION (µg/L) (39786)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC 09...	<3	<.02	E.278	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2
MAY 07...	<3	<.02	E.087	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2

E--Laboratory estimated value.

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.--Estimated daily discharges: Jan. 29 to Feb. 2, June 26, 27, July 17, 18, and Aug. 8-28. Water-discharge records poor.

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	.34	1.1	1.3	.71	1.1	1.2	1.0	1.4	1.8	5.3	2.1	1.6
2	1.5	3.7	1.0	.97	.90	1.2	1.9	1.6	.71	3.4	1.4	1.5
3	5.6	1.6	2.4	35	3.2	10	.90	1.7	.99	6.2	1.2	1.5
4	2.0	1.3	2.6	4.2	2.9	1.8	1.3	1.9	8.7	1.7	1.1	1.4
5	.49	1.2	38	1.8	1.5	.71	1.1	2.0	12	.97	1.8	1.4
6	.42	1.4	1.7	1.3	1.4	.56	1.1	9.6	2.0	.76	2.5	1.7
7	.54	1.4	.90	1.3	1.2	.76	53	325	1.9	.75	1.7	1.8
8	23	1.3	1.4	7.7	1.2	1.4	2.3	9.9	1.8	.62	20	1.5
9	11	1.2	46	3.3	1.2	3.4	.70	7.5	1.8	.54	2.0	1.5
10	1.3	1.3	30	1.2	1.3	4.4	.99	2.9	1.8	.54	1.5	4.6
11	.49	1.5	2.9	1.2	1.6	16	1.2	3.0	29	1.8	1.4	2.3
12	.42	.94	9.9	.71	1.3	8.5	1.0	5.4	40	4.3	1.3	30
13	.40	.97	1.7	.66	11	3.8	.96	4.2	2.8	1.3	1.2	2.1
14	.47	.89	1.2	.59	3.7	.93	.82	1.4	10	1.2	1.2	1.7
15	.44	.77	1.0	.56	2.9	1.2	1.5	.98	2.0	1.2	1.1	1.6
16	.42	.80	.88	.60	2.8	1.4	4.9	.94	20	1.1	1.0	1.5
17	.54	.88	.94	15	23	1.1	1.9	2.0	15	10	45	1.4
18	.33	.85	1.3	4.3	318	6.0	.92	1.1	1.5	18	6.0	1.4
19	.45	.98	1.1	1.2	5.2	36	.81	1.4	.48	1.6	3.0	1.8
20	.50	.87	.90	1.2	2.3	29	2.1	2.1	15	1.1	10	2.3
21	.46	.74	.95	.92	1.3	3.4	1.2	2.4	25	.93	2.0	2.9
22	.52	.95	.99	1.1	1.3	1.7	.75	17	3.2	.91	1.4	5.1
23	.47	9.9	1.0	1.1	.68	1.2	13	9.5	1.7	.88	1.8	2.1
24	.47	2.1	1.1	.94	1.4	1.6	42	1.4	550	.78	25	9.5
25	1.1	.94	.90	.82	7.3	.93	5.5	.89	13	1.2	2.0	95
26	.91	.65	.94	.69	21	26	2.5	46	100	.63	3.5	4.4
27	.58	.85	1.1	.56	2.8	32	5.5	93	6.0	1.6	15	2.2
28	.58	.79	.99	.59	1.6	3.1	3.9	18	4.7	6.9	2.0	1.9
29	.59	1.1	.92	.56	1.9	2.1	2.6	1.9	3.1	5.6	1.9	1.7
30	.64	1.2	.99	.80	---	1.5	1.6	1.1	3.1	2.0	1.8	1.6
31	.75	---	.87	1.0	---	1.1	---	1.0	---	4.0	1.7	---
MEAN	1.86	1.47	5.09	2.99	14.7	6.58	5.30	18.7	29.3	2.83	5.31	6.37
MAX	23	9.9	46	35	318	36	53	325	550	18	45	95
MIN	.33	.65	.87	.56	.68	.56	.70	.89	.48	.54	1.0	1.4
IN.	.18	.14	.50	.29	1.36	.65	.51	1.84	2.80	.28	.52	.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	8.00	19.1	5.69	17.3	27.0	19.0	15.0	15.9	23.5	11.2	10.2	7.29
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	10.3	2.83	5.31	1.53
(WY)	2000	2000	1999	2000	2000	2000	2000	1999	1999	2000	2000	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL MEAN	12.0		8.31		14.6	
HIGHEST ANNUAL MEAN					18.7	1998
LOWEST ANNUAL MEAN					8.31	2000
HIGHEST DAILY MEAN	665	Feb 7	550	Jun 24	665	Feb 7 1999
LOWEST DAILY MEAn	.28	Sep 22-25	.33	Oct 18	.28	Seo 22 1999
ANNUAL SEVEN-DAY MINIMUM	.30	Sep 21	.43	Oct 12	.30	Sep 21 1999
INSTANTANEOUS PEAK FLOW[a]	---		2590	Jun 24	2590	Jun 24 2000
INSTANTANEOUS PEAK STAGE[b]	---		17.45	Jun 24	17.45	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.28	Oct 1,2,18	.28	Sep 15 1999
ANNUAL RUNOFF (INCHES)	13.89		9.68		16.95	
10 PERCENT EXCEEDS	20		14		30	
50 PERCENT EXCEEDS	2.0		1.5		2.5	
90 PERCENT EXCEEDS	.54		.67		.85	

[a]From rating extended above 1,130 ft^3/s.
[b]From crest-stage gage and high-water mark.

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
NOV												
23...	0933	52	7.2	69	7.6	400	14.3	7400	9200	10000	64	63
JAN												
05...	1415	1.8	11.8	84	6.8	588	1.9	1200	2400	1400	97	99
FEB												
28...	1504	1.6	10.8	98	7.5	1020	11.4	K83	K83	K40	131	134
APR												
07...	0153	64	8.3	79	7.6	691	12.8	7800	10000	75000	151	152
JUN												
20...	0720	.57	4.1	47	7.5	879	22.6	2800	4200	K840	152	152
AUG												
23...	1015	3.0	4.3	53	8.1	644	26.0	1600	2600	K400	145	144

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	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, ORGANIC TOTAL (mg/L as N) (00605)	NITRO-GEN, TOTAL (mg/L as N) (00600)	NITRO-GEN, AMMONIA TOTAL (mg/L as NH_4) (71845)
NOV												
23...	77	0	98	28.0	6.7	--	2.3	.49	.6	1.8	2.9	.63
JAN												
05...	121	0	160	45.0	11.0	86.0	.68	.21	.7	.47	1.4	.27
FEB												
28...	164	0	220	62.0	16.0	190	.42	.03	.4	.39	.85	.04
APR												
07...	185	0	250	65.0	22.0	--	1.9	.47	.3	1.4	2.2	.61
JUN												
20...	185	0	230	65.0	16.0	--	.88	.20	.5	.68	1.4	.26
AUG												
23...	176	0	190	55.0	13.0	--	.76	.13	.4	.63	1.1	.17

DATE	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, TOTAL (mg/L as NO_3) (71887)	PHOS-PHATE, TOTAL (mg/L as PO_4) (00650)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	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)
NOV												
23...	<.01	13.0	1.72	.560	.740	3.2	450	166	2.8	<1	<1.0	2.5
JAN												
05...	<.01	6.2	--	E.140	.180	30	19	115	1.9	<1	<1.0	<1.0
FEB												
28...	<.01	3.8	.399	.130	.140	8.8	13	52	2.1	<1	<1.0	<1.0
APR												
07...	<.01	9.9	.736	.240	.380	8.0	200	70	2.1	<1	<1.0	<1.0
JUN												
20...	<.01	6.2	--	E.200	.230	9.7	23	9	4.1	<1	<1.0	<1.0
AUG												
23...	<.01	5.0	--	E.270	.310	2.3	37	39	5.0	<1	<1.0	<1.0

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimate.

06935955 FEE FEE CREEK NEAR BRIDGETON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	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)	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)	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)
NOV 23...	1	280	1	220	<.1	2	<1.0	<1	48	<.20	<.20	<.20
JAN 05...	2	180	<1	220	<.1	3	<1.0	<1	56	--	--	--
FEB 28...	3	80	<1	240	<.1	2	<1.0	<1	110	--	--	--
APR 07...	3	160	<1	440	<.1	4	<1.0	<1	160	<.10	<.10	<.10
JUN 20...	1	20	<1	360	<.1	3	<1.0	<1	8	--	--	--
AUG 23...	2	50	<1	160	<.1	3	<1.0	<1	95	--	--	--

DATE	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (µg/L) (34556)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	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-NAPH-THALENE TOTAL (µg/L) (34581)
NOV 23...	<3	<.4	<.20	<2	<.20	<3	<3	<3	<1	<3	<2	<2
APR 07...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2

DATE	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 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)
NOV 23...	<2	<3	<2	E1	<2	<2	<3	3	<2	<.013	2	<2.2
APR 07...	<2	<3	<2	<3	<2	<2	3	E1	<2	<.013	E.055	<2.2

DATE	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)	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)
NOV 23...	<.20	<.20	<2	<.20	<.20	<40	3	5	E2	3	E2	<3
APR 07...	<.10	<.10	<2	<.10	<.10	<40	E1	E1	E1	E1	E1	<3

DATE	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)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)	CHRY-SENE TOTAL (µg/L) (34320)
NOV 23...	<2	<2	<20	<.40	<.40	<.1	<.20	<.4	<.20	<.01	5
APR 07...	<2	<2	<20	<.20	<.20	<.1	<.10	<.2	<.10	.02	E1

E--Laboratory estimated value.

06935955 FEE FEE CREEK NEAR BRIDGETON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	CYCLOPENTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)
NOV 23...	<.20	<2	<.02	E.01	<.20	<.4	.010	<2	<.4	<2	<3
APR 07...	<.10	<2	<.02	.18	<.10	<.2	<.009	<2	<.2	<2	<3

DATE	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)	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)	ETHION, TOTAL (µg/L) (39398)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FLUOR-ANTHENE TOTAL (µg/L) (34376)
NOV 23...	<5	<.03	<.015	<.014	<2.0	<.4	<.20	<.4	<.01	<.20	11
APR 07...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	E1

DATE	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	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)
NOV 23...	2	<.01	<.20	<.009	<.011	<2	<2.6	E2	E.20	<.012	<.03
APR 07...	E1	<.01	<.10	<.009	<.011	<2	<2.6	E1	E.18	<.012	<.03

DATE	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	MIREX, TOTAL (µg/L) (39755)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	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)
NOV 23...	<.01	<.01	<.4	E.3	<.01	<.40	E.5	<4	<3	<2	<3
APR 07...	<.01	<.01	<.2	<.2	<.01	<.20	<2.1	<4	<3	<2	<3

DATE	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	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)	PCNS UNFILT RECOVER (µg/L) (39250)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PER-THANE TOTAL (µg/L) (39034)	PHENAN-THRENE TOTAL (µg/L) (34461)
NOV 23...	<.20	<.014	<.016	<.017	<3	<.01	<.1	<.1	E2	<.1	9
APR 07...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	E1	<.1	E1

DATE	PHENOL TOTAL (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TOX-APHENE, TOTAL (µg/L) (39400)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	TOTAL TRI-THION (µg/L) (39786)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
NOV 23...	<3	<.02	8	<.20	<.2	<.20	<1	.24	<.40	<.01	<.4
APR 07...	<3	<.02	E1	<.10	<.1	<.10	<1	.12	<.20	<.01	<.2

E--Laboratory estimated value.

06935965 MISSOURI RIVER AT ST. CHARLES, MO

LOCATION.--Lat 38°47'08", long 90°28'19", SE $^{1}/_{4}$ sec.29, T.47 N., R.5 E., St. Louis County, Hydrologic Unit 10300200, on right bank approximately 0.75 mi upstream from Interstate 370 bridge, on the St. Charles Sand Company property.

PERIOD OF RECORD.--April 1, 2000 to current year. April 15, 1932 to October 1944 recording gage on the upstream bridge pier of Highway 115 bridge, 0.25 mi upstream from current 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 March 4, 1994, datum of gage was 413.585 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 2-3, 1993 reached a stage of 40.04 ft. by levels.

EXTREMES FOR CURRENT YEAR.--For period April 1 to Sept. 30, maximum discharge 142,000 ft^3/s, June 28, gage height 21.15; minimum 42,200 ft^3/s Sept. 20 and 21.

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	---	---	---	---	---	---	68700	48900	65500	124000	54700	49300
2	---	---	---	---	---	---	64500	48500	61800	115000	56500	48500
3	---	---	---	---	---	---	61400	48300	59600	108000	56700	48200
4	---	---	---	---	---	---	57700	48700	57500	100000	54500	48500
5	---	---	---	---	---	---	55900	49300	56700	97700	53600	46100
6	---	---	---	---	---	---	57100	49500	55900	85200	54200	44300
7	---	---	---	---	---	---	58900	83800	55400	79500	55000	43300
8	---	---	---	---	---	---	57400	94300	54900	80300	58200	43000
9	---	---	---	---	---	---	56100	57600	54300	87400	86900	43400
10	---	---	---	---	---	---	56100	52100	53700	86600	81100	45700
11	---	---	---	---	---	---	53800	54100	54000	78300	68100	45600
12	---	---	---	---	---	---	52900	53700	53900	78500	63700	44800
13	---	---	---	---	---	---	54000	52700	54200	80100	59100	46100
14	---	---	---	---	---	---	53000	51300	54500	79400	52100	50200
15	---	---	---	---	---	---	51200	51000	53900	76700	48300	46500
16	---	---	---	---	---	---	50800	50000	59400	71600	46600	44900
17	---	---	---	---	---	---	50900	48700	65800	66100	50600	44100
18	---	---	---	---	---	---	50000	48500	69200	61800	55400	43100
19	---	---	---	---	---	---	49200	49400	68600	61700	55900	42600
20	---	---	---	---	---	---	49200	50200	66500	71400	54400	42500
21	---	---	---	---	---	---	49500	51600	68300	70700	51400	42500
22	---	---	---	---	---	---	49800	52100	85400	64100	53600	42600
23	---	---	---	---	---	---	51400	51700	108000	60000	51900	43900
24	---	---	---	---	---	---	52400	51300	124000	57700	53600	44600
25	---	---	---	---	---	---	52400	52000	113000	56300	76300	48000
26	---	---	---	---	---	---	51700	54100	101000	54600	83000	46400
27	---	---	---	---	---	---	50600	67200	115000	52800	68900	45900
28	---	---	---	---	---	---	50100	109000	140000	52800	56700	47700
29	---	---	---	---	---	---	50000	98600	138000	53200	51800	49200
30	---	---	---	---	---	---	49700	88600	135000	55100	49600	50100
31	---	---	---	---	---	---	---	75700	---	54800	50900	---
MEAN	---	---	---	---	---	---	53880	59440	76770	74880	58490	45720
MAX	---	---	---	---	---	---	68700	109000	140000	124000	86900	50200
MIN	---	---	---	---	---	---	49200	48300	53700	52800	46600	42500
MED	---	---	---	---	---	---	52400	51700	63600	71600	54700	45600

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.--No estimated daily discharges. Water-discharge records fair except discharges below 0.5 ft^3/s and above 100 ft^3/s, which are poor.

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	.25	.06	.10	.15	.80	.53	.48	.22	.15	.72	.39	.54
2	1.0	.06	.11	.15	.88	.42	.48	.21	.14	4.2	.32	.52
3	4.9	.07	1.5	9.7	.84	3.8	.48	.19	.13	1.8	.34	.48
4	.38	.07	5.5	.52	.61	.67	.37	.21	11	.61	.32	.50
5	.09	.08	15	.23	.52	.48	.39	.18	1.2	.54	.31	.83
6	.08	.07	.85	.76	.49	.44	.55	6.7	.14	.47	1.1	.54
7	.08	.07	.49	.30	.48	.46	27	110	.11	.35	6.2	.45
8	27	.07	.44	2.4	.75	.43	.79	1.1	.10	.34	12	.45
9	13	.07	18	.71	.83	.40	.50	1.2	.11	.41	.74	1.5
10	.27	.07	5.4	.51	.77	.41	.48	.44	.10	.47	.43	.25
11	.27	.07	.76	.31	.55	5.4	.48	.32	6.8	2.1	.39	.34
12	.12	.07	2.1	.26	.47	2.3	.44	3.7	26	1.2	.37	11
13	.10	.07	.57	.25	3.7	1.0	.42	.53	1.1	.36	.35	.16
14	.09	.08	.39	.23	.59	.58	.38	.23	3.7	.30	.35	.25
15	.08	.07	.35	.26	.33	.54	.38	.19	.30	.29	.32	.12
16	.12	.07	.35	.26	.30	.48	2.3	.16	6.8	.26	.32	.15
17	.49	.08	.35	3.4	6.6	.42	.48	.15	3.1	2.9	16	.45
18	.12	.07	.34	.74	161	2.4	.29	.54	.35	3.3	3.9	.13
19	.12	.09	.30	.43	1.5	10	.45	.28	.18	1.1	1.7	.08
20	.10	.09	.30	.31	1.0	7.0	.38	.14	19	.46	8.8	.20
21	.10	.08	.27	.26	.76	1.1	.22	.12	6.3	.41	.51	.18
22	.09	.10	.25	.31	.69	.83	.19	50	.82	.36	.35	1.8
23	.09	22	.26	.32	.62	.69	2.7	2.1	.71	.37	.28	.16
24	.09	.52	.30	.27	.64	.96	5.8	.31	182	.26	16	2.4
25	.10	.17	.25	.25	5.6	.54	.46	.15	2.0	.27	.59	41
26	.08	.13	.25	.25	7.7	12	.25	16	77	.28	.94	.68
27	.07	.36	.25	.25	.85	2.1	1.5	51	1.4	.44	7.8	.33
28	.06	.13	.25	.25	.61	.70	.68	1.5	1.0	20	.75	.25
29	.06	.10	.25	.34	.50	.51	.35	.59	.82	3.8	.58	.13
30	.07	.10	.25	.78	---	.48	.22	.36	1.3	.59	.50	.13
31	.08	---	.18	.81	---	.48	---	.22	---	1.2	.54	---
MEAN	1.60	.84	1.81	.84	6.93	1.89	1.66	8.03	11.8	1.62	2.69	2.20
MAX	27	22	18	9.7	161	12	27	110	182	20	16	41
MIN	.06	.06	.10	.15	.30	.40	.19	.12	.10	.26	.28	.08
IN.	.50	.25	.56	.26	2.02	.59	.50	2.50	3.56	.50	.84	.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	1.79	2.20	1.51	4.73	7.44	5.12	6.43	6.27	7.45	5.52	2.31	1.67
MAX	2.32	3.63	1.96	8.86	11.3	9.35	12.9	8.03	11.8	10.4	3.27	2.20
(WY)	1999	1999	1998	1999	1999	1998	1998	2000	2000	1998	1997	2000
MIN	1.44	.84	.75	.84	4.08	1.89	1.66	4.17	3.48	1.02	1.14	.57
(WY)	1998	2000	1999	2000	1998	2000	2000	1999	1997	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	4.36		3.47		4.54	
HIGHEST ANNUAL MEAN					5.60	1998
LOWEST ANNUAL MEAN					3.47	2000
HIGHEST DAILY MEAN	240	Feb 7	182	Jun 24	240	Feb 7 1999
LOWEST DAILY MEAN	.06	Several Days	.06	Oct 28,29,Nov 1,2	.06	Several Days 1999,2000
ANNUAL SEVEN-DAY MINIMUM	.07	Oct 27	.07	Oct 27	.07	Oct 27 1999
INSTANTANEOUS PEAK FLOW[a]	---		1980	Feb 18	2460	Jul 30 1998
INSTANTANEOUS PEAK STAGE	---		12.72	Feb 18	13.90	Jul 30 1998
INSTANTANEOUS LOW FLOW	---		.05	Oct 28,29	.05	Sep 27,Oct 28,29 1999
ANNUAL RUNOFF (INCHES)	16.01		12.75		16.68	
10 PERCENT EXCEEDS	5.7		5.7		7.3	
50 PERCENT EXCEEDS	.77		.43		.68	
90 PERCENT EXCEEDS	.08		.10		.14	

[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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
DEC												
04...	2326	64	8.5	84	7.4	297	14.5	56000	50000	7400	107	112
JAN												
05...	1320	.25	10.4	75	6.8	640	2.6	700	1400	1200	115	117
FEB												
28...	1359	.62	3.3	30	7.1	1130	10.9	K9600	K13000	7100	188	197
APR												
07...	0203	165	10.0	92	7.1	175	11.3	7700	K7500	10000	140	160
JUN												
19...	1530	.19	5.3	66	7.4	853	26.5	2000	K3000	1200	173	175
AUG												
01...	1315	.35	3.4	40	7.5	570	23.8	4100	5800	400	121	122

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	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, ORGANIC TOTAL (mg/L as N) (00605)	NITRO-GEN, TOTAL (mg/L as N) (00600)	NITRO-GEN, AMMONIA TOTAL (mg/L as NH_4) (71845)
DEC												
04...	137	0	140	36.0	11.0	--	1.3	.10	.4	1.2	1.7	.13
JAN												
05...	143	0	210	53.0	18.0	87.0	.53	.10	.6	.43	1.1	.13
FEB												
28...	240	0	310	77.0	29.0	200	2.3	.80	.3	1.5	2.6	1.03
APR												
07...	200	0	200	46.0	20.0	--	11	1.50	.4	9.5	11	1.93
JUN												
19...	213	0	260	68.0	23.0	--	.37	.11	.4	.26	.77	.14
AUG												
01...	149	0	190	50.0	16.0	--	.73	.16	.7	.57	1.5	.21

DATE	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, TOTAL (mg/L as NO_3) (71887)	PHOS-PHATE, TOTAL (mg/L as PO_4) (00650)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	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)
DEC												
04...	<.01	7.5	--	E.410	.590	8.6	260	146	1.6	1	<1.0	3.9
JAN												
05...	<.01	4.9	--	E.120	.140	37	10	69	1.1	<1	<1.0	<1.0
FEB												
28...	<.01	11.3	1.56	.510	.940	28	14	10	<1.0	<1	<1.0	<1.0
APR												
07...	<.01	50.6	--	E1.40	2.40	21	1700	92	2.1	<1	<1.0	2.0
JUN												
19...	<.01	3.4	--	E.170	.190	14	5	8	2.2	<1	<1.0	<1.0
AUG												
01...	E.01	6.5	--	E.150	.170	7.7	11	21	2.6	<1	<1.0	1.9

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

06935980 COWMIRE CREEK AT BRIDGETON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	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)	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)	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)
DEC 04...	4	200	<1	130	<.1	2	<1.0	<1	140	<.10	<.10	<.10
JAN 05...	2	120	<1	220	<.1	2	<1.0	<1	46	--	--	--
FEB 28...	2	220	<1	780	<.1	3	<1.0	<1	270	--	--	--
APR 07...	2	170	<1	470	.1	3	<1.0	<1	55	<.10	<.10	<.10
JUN 19...	1	20	<1	230	<.1	2	<1.0	<1	12	--	--	--
AUG 01...	2	60	<1	190	<.1	2	<1.0	<1	11	--	--	--

DATE	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (µg/L) (34556)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	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-NAPH-THALENE TOTAL (µg/L) (34581)
DEC 04...	E1	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2
APR 07...	E1	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2

DATE	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 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)
DEC 04...	<2	<3	<2	<3	<2	<2	4	E1	E1	<.013	E1	<2.2
APR 07...	<2	<3	<2	<3	<2	<2	3	E1	E1	<.013	E1	<2.2

DATE	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)	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)
DEC 04...	<.10	<.10	<2	<.10	<.10	<40	E2	4	E1	E1	E2	<3
APR 07...	<.10	<.10	<2	<.10	<.10	<40	7	8	7	8	5	<3

DATE	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)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)	CHRY-SENE TOTAL (µg/L) (34320)
DEC 04...	<2	<2	E11	<.20	<.20	<.1	<.10	<.2	.16	.07	4
APR 07...	<2	<2	E10	<.20	<.20	<.1	<.10	<.2	<.10	.06	7

E--Laboratory estimated value.

06935980 COWMIRE CREEK AT BRIDGETON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	CYCLOPENTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)
DEC 04...	<.10	<2	<.02	.02	<.10	<.2	<.009	<2	<.2	<2	<3
APR 07...	<.10	<2	<.02	.09	<.10	<.2	<.009	<2	<.2	<2	<3

DATE	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)	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)	ETHION, TOTAL (µg/L) (39398)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FLUOR-ANTHENE TOTAL (µg/L) (34376)
DEC 04...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	6
APR 07...	<5	--	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	17

DATE	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	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)
DEC 04...	<.01	<.01	<.10	<.009	<.011	<2	<2.6	E2	E1	<.012	E.01
APR 07...	<.01	<.01	<.10	<.009	<.011	<2	<2.6	7	E1	<.012	<.03

DATE	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	MIREX, TOTAL (µg/L) (39755)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	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)
DEC 04...	<.01	<.01	E.1	<.2	<.01	.20	E.2	<4	<3	<2	<3
APR 07...	<.01	<.01	<.2	<.2	<.01	<.20	E.4	E4	<3	<2	<3

DATE	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	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)	PCNS UNFILT RECOVER (µg/L) (39250)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PER-THANE TOTAL (µg/L) (39034)	PHENAN-THRENE TOTAL (µg/L) (34461)
DEC 04...	.11	<.014	<.016	<.017	<3	<.01	<.1	<.1	E2	<.1	2
APR 07...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	E1	<.1	8

DATE	PHENOL TOTAL (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TOX-APHENE, TOTAL (µg/L) (39400)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	TOTAL TRI-THION (µg/L) (39786)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC 04...	<3	<.02	4	<.10	<.1	.10	<1	<.10	<.20	<.01	<.2
APR 07...	<3	<.02	13	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2

E--Laboratory estimated value.

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. Highway 367 and 67 (Lewis and Clark Blvd.), 2.08 mi north of U.S. Highway 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. Peak only published for the 1999 water year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 432.34 ft above sea level.

REMARKS.--Estimated daily discharges: July 26 to Aug. 29. Records fair except for estimated daily discharges and those below 8ft^3/s and above 1000 ft^3/s, which are poor.

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	.21	.16	.22	.17	.20	.53	.24	.22	.69	.53	.60	.20
2	.27	.15	.20	.20	.20	.39	.25	.20	.52	.50	.30	.18
3	.54	.16	.50	1.2	.31	.88	.24	.20	.44	.66	.22	.16
4	.32	.17	.53	.29	.26	.46	.22	.20	2.5	.45	.18	.17
5	.20	.16	2.2	.16	.20	.33	.22	.18	1.5	.37	.28	.15
6	.20	.32	.39	.23	.21	.32	.29	.53	.76	.28	.40	.16
7	.24	.23	.26	.21	.23	.31	1.5	70	.58	.27	5.0	.20
8	5.5	.21	.24	.40	.20	.34	.39	2.0	.50	.24	20	.18
9	.31	.21	1.7	.36	.24	.36	.27	1.6	.42	.24	1.0	.20
10	.14	.22	2.7	.41	.33	.33	.25	.87	.39	.23	.40	.22
11	.19	.22	.33	.36	.20	.68	.25	.43	4.5	1.2	.32	.20
12	.30	.21	.45	.26	.18	.45	.18	.43	1.4	.49	.30	2.4
13	.26	.21	.27	.25	.57	.37	.19	.32	.63	.24	.22	.20
14	.31	.21	.28	.23	.30	.33	.22	.20	.74	.21	.20	.40
15	.31	.20	.24	.22	.25	.31	.18	.18	.46	.20	.18	.21
16	.37	.22	.25	.19	.28	.32	4.4	.20	1.5	.17	.15	.18
17	.43	.17	.33	.91	.70	.33	.68	.24	1.1	.39	12	.19
18	.36	.20	.25	.42	40	.49	.20	1.3	.55	15	3.0	.16
19	.30	.27	.24	.27	.64	1.3	.21	.51	.42	3.0	.30	.16
20	.25	.28	.23	.24	.49	2.4	.25	.24	2.8	.48	1.0	.16
21	.28	.24	.19	.18	.36	.58	.24	.23	3.0	.33	.30	.19
22	.27	.21	.17	.24	.36	.43	.14	1.8	.56	.27	.24	.54
23	.23	3.1	.17	.23	.44	.40	.33	1.2	.37	.23	.18	.21
24	.24	.47	.19	.24	.51	.43	2.2	.32	39	.22	2.0	.56
25	.22	.27	.18	.25	.60	.32	.33	.21	2.8	.20	.60	19
26	.23	.24	.20	.20	1.7	1.5	.15	3.1	30	.18	.40	.63
27	.24	.26	.20	.17	.65	1.7	.69	20	1.7	.15	1.0	.33
28	.23	.21	.21	.16	.33	.34	.35	3.0	.93	30	.30	.36
29	.22	.20	.23	.16	.41	.29	.34	1.3	.65	3.0	.24	.25
30	.20	.21	.21	.17	---	.28	.26	1.0	.65	1.1	.21	.24
31	.19	---	.17	.19	---	.26	---	.84	---	2.0	.20	---
MEAN	.44	.32	.45	.30	1.77	.57	.52	3.65	3.40	2.03	1.67	.95
MAX	5.5	3.1	2.7	1.2	40	2.4	4.4	70	39	30	20	19
MIN	.14	.15	.17	.16	.18	.26	.14	.18	.37	.15	.15	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	.41	.62	.50	1.90	3.24	2.21	2.48	4.28	3.42	1.95	1.37	.64
MAX	.54	.90	.58	3.70	6.73	4.56	5.02	6.39	5.92	3.28	1.72	.95
(WY)	1999	1999	1998	1999	1999	1998	1998	1998	1998	1998	1998	2000
MIN	.24	.32	.45	.30	1.26	.57	.52	2.81	.95	.55	.72	.33
(WY)	1998	2000	2000	2000	1998	2000	2000	1999	1997	1997	1997	1998

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	1.34		1.99	
HIGHEST ANNUAL MEAN			2.65	1998
LOWEST ANNUAL MEAN			1.34	2000
HIGHEST DAILY MEAN	70	May 7	215	Jun 11 1999
LOWEST DAILY MEAN	.14	Oct 10,Apr 22	.08	Oct 22,23 1997
ANNUAL SEVEN-DAY MINIMUM	.17	Oct 30	.09	Oct 17 1997
INSTANTANEOUS PEAK FLOW	425	May 7	2780[a]	Jun 11 1999
INSTANTANEOUS PEAK STAGE	4.75	May 7	10.53	Jun 11 1999
INSTANTANEOUS LOW FLOW	.10	Jan 5,May 20	.08[b]	Oct 22,23 1997
10 PERCENT EXCEEDS	1.7		2.4	
50 PERCENT EXCEEDS	.28		.50	
90 PERCENT EXCEEDS	.18		.20	

[a]From rating extended above 870 ft^3/s.
[b]Daily value, occurred during period of estimated record.

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. Highway 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.--No estimated daily discharges. Records fair except for those below 5 ft^3/s, 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	.98	1.2	.96	1.2	1.2	1.7	1.6	1.2	2.3	2.8	1.6	1.7
2	4.8	.74	.94	1.2	1.1	1.7	1.6	1.3	2.0	8.6	1.5	1.7
3	12	.78	6.3	30	1.7	12	1.6	1.5	2.1	4.2	1.6	1.8
4	2.3	.78	7.0	2.1	1.3	2.5	1.5	1.7	30	1.9	1.4	1.6
5	1.2	.84	37	1.6	.99	1.8	1.5	1.6	4.8	1.8	1.4	1.6
6	1.0	.97	2.8	1.4	1.1	1.8	2.8	6.7	1.8	1.8	4.8	1.5
7	.98	1.9	1.4	1.2	1.7	1.8	76	394	1.7	1.8	14	1.5
8	69	1.8	1.9	9.1	1.1	2.5	2.5	5.4	2.1	1.5	39	1.7
9	35	.84	43	2.4	1.1	1.6	1.6	6.0	1.8	1.6	2.5	1.5
10	1.5	.74	21	1.9	1.9	1.6	1.5	3.4	1.8	1.8	1.7	6.4
11	1.0	.75	2.1	1.7	1.2	16	1.6	2.9	36	7.4	1.6	7.8
12	.93	.70	9.4	1.7	1.0	6.0	1.2	8.6	26	3.5	1.6	28
13	.85	.71	1.8	1.5	9.6	3.1	1.2	2.4	3.5	1.9	1.6	1.9
14	.89	.88	1.5	1.5	1.7	2.1	1.3	1.6	12	1.6	1.6	2.6
15	.82	.81	1.4	1.6	1.2	1.9	1.2	1.7	2.4	1.6	1.6	1.6
16	.73	.70	1.3	1.6	1.3	1.8	7.6	1.6	27	1.5	1.6	1.4
17	.84	.74	1.3	13	18	1.7	1.5	1.6	15	19	61	1.4
18	.59	.72	1.2	3.0	368	7.6	1.2	1.9	3.1	28	8.3	1.5
19	.55	1.0	1.2	1.6	4.2	23	1.2	1.7	2.3	4.2	5.2	1.3
20	.58	.71	1.1	1.4	2.7	22	5.4	1.6	45	1.6	21	1.8
21	.61	.63	1.2	1.2	2.1	4.2	1.3	1.5	16	1.5	2.2	1.7
22	.70	.58	1.4	1.2	2.4	2.8	1.1	107	2.8	1.5	1.8	6.4
23	.78	37	1.1	1.2	2.0	2.4	11	5.7	5.5	1.4	2.8	1.5
24	.55	1.9	.99	1.2	1.7	2.8	24	2.2	624	1.4	44	10
25	.90	.86	1.1	1.0	8.6	2.1	2.2	1.8	10	1.4	2.8	91
26	.75	.83	1.1	.86	15	26	1.6	45	168	1.5	6.8	3.3
27	.87	.95	1.3	.66	2.9	8.9	4.1	134	5.6	1.7	25	2.1
28	1.1	.91	1.3	.56	1.9	2.2	1.9	6.7	3.7	53	2.4	1.9
29	.96	.94	1.2	.59	1.7	1.8	1.5	3.0	2.9	23	2.2	1.6
30	.85	.98	1.2	.73	---	1.7	1.4	2.5	4.6	2.5	1.8	1.6
31	.96	---	1.2	1.1	---	1.6	---	2.3	---	1.8	1.7	---
MEAN	4.70	2.13	5.09	2.94	15.9	5.51	5.52	24.5	35.5	6.09	8.65	6.38
MAX	69	37	43	30	368	26	76	394	624	53	61	91
MIN	.55	.58	.94	.56	.99	1.6	1.1	1.2	1.7	1.4	1.4	1.3
IN.	.45	.20	.48	.28	1.42	.52	.51	2.34	3.28	.58	.82	.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	6.59	12.5	5.40	11.9	22.1	15.9	12.6	14.5	26.4	15.3	8.62	6.67
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	4.38	2.94	13.1	5.51	5.52	7.22	9.80	6.09	5.48	2.46
(WY)	2000	2000	1999	2000	1998	2000	2000	1999	1997	2000	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL MEAN	13.0		10.2		13.0	
HIGHEST ANNUAL MEAN					15.8	1998
LOWEST ANNUAL MEAN					10.2	2000
HIGHEST DAILY MEAN	605	Feb 7	624	Jun 24	624	Jun 24 2000
LOWEST DAILY MEAN	.55	Oct 19,24	.55	Oct 19,24	.55	Oct 19 1999
ANNUAL SEVEN-DAY MINIMUM	.62	Oct 18	.62	Oct 18	.62	Oct 18 1999
INSTANTANEOUS PEAK FLOW[a]	---		2430	Jun 24	2790	Jun 12 1999
INSTANTANEOUS PEAK STAGE	---		16.81	Jun 24	18.33	Jun 12 1999
INSTANTANEOUS LOW FLOW	---		.36	Oct 20, Jan 29,Sep22	.36	Oct 20 1999, Jan 29,Sep 22 2000
ANNUAL RUNOFF (INCHES)	14.54		11.46		14.61	
10 PERCENT EXCEEDS	20		17		25	
50 PERCENT EXCEEDS	2.4		1.7		2.6	
90 PERCENT EXCEEDS	.89		.87		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", St. Louis County, Hydrologic Unit 10300200, on right downstream abutment of Old Jamestown Road bridge, 0.36 mi south of U.S. Highway 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.--No estimated daily discharges. Water-discharge records fair except for those below 10 ft^3/s and above 1,500 ft^3/s, which are poor.

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	3.4	2.4	2.8	3.4	6.4	5.1	6.0	3.9	7.0	13	7.1	4.2
2	2.8	5.2	2.8	3.4	6.9	4.5	5.3	3.8	6.2	8.7	5.3	4.1
3	30	2.9	11	89	8.9	30	5.1	3.6	5.2	25	4.8	3.8
4	21	1.9	7.5	11	9.2	11	4.9	4.0	52	8.9	3.9	3.7
5	4.4	1.6	122	4.7	5.8	5.6	4.3	4.2	79	7.1	11	3.4
6	3.1	1.7	14	4.0	4.4	4.8	8.2	5.0	7.3	7.7	8.9	3.8
7	3.1	2.2	5.1	3.7	4.3	4.6	147	2910	5.1	6.7	21	3.2
8	216	2.6	3.8	13	5.1	4.7	15	24	4.7	5.8	225	3.2
9	92	3.1	65	11	4.2	4.8	5.7	17	4.7	5.1	13	4.1
10	10	3.0	130	4.7	6.0	3.9	4.6	11	4.5	4.5	6.8	4.6
11	18	2.7	8.1	3.6	6.2	27	4.9	9.3	83	5.5	5.2	8.3
12	4.6	2.6	18	3.3	4.3	17	4.7	11	80	14	4.6	116
13	2.8	2.6	6.5	3.4	24	12	3.8	18	27	6.6	4.3	6.5
14	4.7	2.7	7.7	3.1	11	6.3	3.9	5.1	23	5.4	3.9	6.1
15	3.1	2.8	4.1	3.3	5.3	5.7	4.3	4.4	11	4.6	3.9	5.8
16	3.0	2.8	4.1	3.7	4.2	5.2	114	5.1	28	4.3	4.1	3.3
17	3.0	2.8	4.2	22	31	4.6	15	5.7	51	26	24	2.8
18	4.1	2.8	4.1	17	1530	15	5.5	52	13	190	223	2.5
19	2.7	2.7	3.9	5.9	17	57	4.5	13	6.2	156	7.2	2.6
20	2.5	2.6	3.6	4.1	9.8	66	9.4	5.4	17	7.6	65	2.4
21	2.3	2.9	3.3	3.6	7.7	14	7.2	4.7	178	5.7	8.0	5.3
22	2.3	2.6	3.4	3.9	6.5	9.0	3.9	227	10	5.0	5.8	16
23	2.6	129	4.1	4.0	6.4	7.8	4.0	144	6.7	4.3	4.9	6.1
24	2.6	15	3.8	3.5	5.2	7.6	68	8.5	2230	4.1	145	17
25	2.5	4.7	4.1	3.3	5.3	7.0	12	5.7	44	4.2	9.0	443
26	2.3	3.1	3.3	3.2	49	14	5.5	143	637	4.0	19	16
27	2.5	2.4	3.2	3.1	14	81	11	460	23	3.8	86	6.9
28	2.3	2.6	3.7	3.1	5.9	8.2	16	27	15	384	9.1	5.5
29	2.0	2.6	6.4	3.2	5.3	6.2	11	11	11	44	5.8	5.1
30	2.1	2.5	4.4	3.2	---	5.8	4.4	9.2	9.4	18	5.6	4.6
31	2.3	---	3.4	4.4	---	5.4	---	7.6	---	7.2	4.7	---
MEAN	14.8	7.37	15.2	8.25	62.4	14.9	17.3	134	123	32.2	30.8	24.0
MAX	216	129	130	89	1530	81	147	2910	2230	384	225	443
MIN	2.0	1.6	2.8	3.1	4.2	3.9	3.8	3.6	4.5	3.8	3.9	2.4
IN.	.42	.20	.43	.24	1.67	.42	.48	3.83	3.39	.92	.88	.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	19.5	39.1	15.0	43.0	93.7	53.9	44.1	64.3	88.6	54.0	27.1	18.7
MAX	27.3	95.6	18.7	79.3	173	118	82.3	134	123	109	44.5	25.8
(WY)	1997	1997	1998	1999	1999	1998	1998	2000	2000	1998	1998	1996
MIN	14.8	7.37	8.59	8.25	45.3	14.9	17.3	30.9	23.2	19.0	17.0	6.60
(WY)	2000	2000	1999	2000	1998	2000	2000	1997	1997	1997	1996	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL MEAN	48.0		40.2		46.4	
HIGHEST ANNUAL MEAN					57.4	1998
LOWEST ANNUAL MEAN					38.2	1997
HIGHEST DAILY MEAN	4030	Feb 7	2910	May 7	4030	Feb 7 1999
LOWEST DAILY MEAN	1.6	Sep 6,Nov 5	1.6	Nov 5	1.4	Sep 22 1996
ANNUAL SEVEN-DAY MINIMUM	2.0	Sep 2	2.3	Oct 26	2.0	Sep 2 1999
INSTANTANEOUS PEAK FLOW[a]	---		13000	May 7	13000	May 7 2000
INSTANTANEOUS PEAK STAGE	---		11.46	May 7	11.46	May 7 2000
INSTANTANEOUS LOW FLOW	---		1.4	Nov 6	.75	Sep 29 1997
ANNUAL RUNOFF (INCHES)	16.15		13.55		15.62	
10 PERCENT EXCEEDS	71		52		83	
50 PERCENT EXCEEDS	9.2		5.3		8.1	
90 PERCENT EXCEEDS	2.6		2.8		3.1	

[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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
DEC												
09...	1623	118	6.3	52	7.1	319	7.0	K1100	K2600	K2200	72	73
JAN												
06...	1310	4.1	8.5	63	7.0	291	3.2	880	1100	1000	55	56
FEB												
29...	1215	5.3	5.6	51	7.2	575	10.7	K120	K33	K20	91	91
APR												
07...	0513	713	7.3	70	7.6	835	13.6	2100	2100	K1200	187	184
JUN												
15...	1126	5.9	8.2	99	7.6	344	25.0	1400	5100	480	80	81
AUG												
01...	0800	7.2	5.3	62	7.6	436	24.0	K730	2700	K400	114	113

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	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, ORGANIC TOTAL (mg/L as N) (00605)	NITRO-GEN, TOTAL (mg/L as N) (00600)	NITRO-GEN, AMMONIA TOTAL (mg/L as NH_4) (71845)
DEC												
09...	89	0	100	28.0	7.40	--	2.1	.30	.4	1.8	2.5	.39
JAN												
06...	68	0	81	23.0	5.80	33.0	.73	.14	.7	.59	1.4	.18
FEB												
29...	111	0	120	34.0	9.50	95.0	1.2	.53	.3	.67	1.5	.68
APR												
07...	225	0	280	65.0	28.0	--	1.9	.39	.3	1.5	2.2	.50
JUN												
15...	99	0	100	29.0	7.40	--	.95	.26	.3	.69	1.3	.33
AUG												
01...	138	0	150	40.0	11.0	--	.42	.12	.8	.30	1.2	.15

DATE	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, TOTAL (mg/L as NO_3) (71887)	PHOS-PHATE, TOTAL (mg/L as PO_4) (00650)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	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)
DEC												
09...	<.01	11.3	--	E.220	.230	11	42	99	1.9	<1	<1.0	1.5
JAN												
06...	<.01	6.2	--	E.120	.220	11	29	193	1.3	<1	<1.0	1.1
FEB												
29...	<.01	6.8	.307	.100	.150	11	16	203	2.1	<1	<1.0	<1.0
APR												
07...	<.01	9.7	--	E.240	.370	10	190	26	2.3	<1	<1.0	<1.0
JUN												
15...	<.01	5.7	--	E.230	.250	4.3	19	277	4.0	<1	<1.0	<1.0
AUG												
01...	<.01	5.3	--	E.130	.150	6.1	16	51	2.6	<1	<1.0	1.1

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

06936475 COLDWATER CREEK NEAR BLACK JACK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	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)	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)	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)
DEC 09...	3	220	<1	120	<.1	2	<1.0	<1	58	<.20	<.20	<.20
JAN 06...	4	280	2	120	<.1	2	<1.0	<1	81	--	--	--
FEB 29...	4	230	1	200	<.1	3	<1.0	<1	46	--	--	--
APR 07...	1	70	<1	270	<.1	4	<1.0	<1	34	<.10	<.10	<.10
JUN 15...	4	570	3	190	<.1	3	<1.0	<1	12	--	--	--
AUG 01...	3	70	<1	91	<.1	3	1.9	<1	5	--	--	--

DATE	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (µg/L) (34556)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	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-NAPH-THALENE TOTAL (µg/L) (34581)
DEC 09...	E1	<.4	<.20	<2	<.20	<3	<3	<3	<1	<3	<2	<2
APR 07...	E1	<.2	<.10	<2	<.10	<3	<3	E1	<1	<3	<2	<2

DATE	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 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)
DEC 09...	<2	<3	<2	<3	<2	<2	<3	<2	<2	<.013	E.062	<2.2
APR 07...	<2	<3	<2	<3	<2	<2	E2	<2	<2	<.013	E.054	<2.2

DATE	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)	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)
DEC 09...	<.20	<.20	<2	<.20	<.20	<40	E.38	E1	E1	E1	E1	<3
APR 07...	<.10	<.10	<2	<.10	<.10	<40	E.29	<1	<1	<1	<1	<3

DATE	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)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)	CHRY-SENE TOTAL (µg/L) (34320)
DEC 09...	<2	<2	E1	<.40	<.40	<.1	<.20	<.4	<.20	<.01	E1
APR 07...	<2	<2	E1	<.20	<.20	<.1	<.10	<.2	<.10	E.01	E1

E--Laboratory estimated value.

06936475 COLDWATER CREEK NEAR BLACK JACK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	CYCLOPENTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHALATE TOTAL (µg/L) (34336)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DI-METHYL PHTHALATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHALATE TOTAL (µg/L) (39110)
DEC 09...	<.20	<2	<.02	.03	<.20	<.4	<.009	<2	<.4	<2	<3
APR 07...	<.10	<2	<.02	.07	<.10	<.2	<.009	<2	<.2	<2	<3

DATE	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)	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)	ETHION, TOTAL (µg/L) (39398)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FLUORANTHENE TOTAL (µg/L) (34376)
DEC 09...	E2	<.12	<.015	<.014	<2.0	<.4	<.20	<.4	<.01	<.20	<1
APR 07...	<5	--	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	E1

DATE	FLUORENE TOTAL (µg/L) (34381)	FONOFOS (DYFONATE) WATER WHOLE TOT.REC (µg/L) (82614)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEPTACHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTACHLOR, TOTAL (µg/L) (39410)	HEXACHLOROBENZENE TOTAL (µg/L) (39700)	HEXACHLOROBUTADIENE TOTAL (µg/L) (39702)	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)
DEC 09...	<2	<.01	<.20	<.009	<.011	<2	<2.6	E1	E.18	<.012	.05
APR 07...	<2	<.01	<.10	<.009	<.011	<2	<2.6	E1	E.20	<.012	<.03

DATE	METHOXYCHLOR, TOTAL (µg/L) (39480)	METHYL PARATHION, TOTAL (µg/L) (39600)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYLENE CHLORIDE TOTAL (µg/L) (34423)	MIREX, TOTAL (µg/L) (39755)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTHALENE TOTAL (µg/L) (34696)	N-BUTYL BENZYL PHTHALATE 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)
DEC 09...	<.01	<.01	E.3	<.4	<.01	<.40	<2.1	E2	<3	<2	<3
APR 07...	<.01	<.01	E.1	<.2	<.01	<.20	E1	<4	<3	<2	<3

DATE	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	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)	PARATHION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PCNS UNFILT RECOVER (µg/L) (39250)	PENTACHLOROPHENOL TOTAL (µg/L) (39032)	PERTHANE TOTAL (µg/L) (39034)	PHENANTHRENE TOTAL (µg/L) (34461)
DEC 09...	<.20	<.014	<.016	<.017	<3	<.01	<.1	<.1	E2	<.1	<1
APR 07...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	<4	<.1	<1

DATE	PHENOL TOTAL (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	STYRENE TOTAL (µg/L) (77128)	TETRACHLOROETHYLENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TOXAPHENE, TOTAL (µg/L) (39400)	TRICHLOROETHYLENE TOTAL (µg/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (µg/L) (34488)	TOTAL TRITHION (µg/L) (39786)	VINYL CHLORIDE TOTAL (µg/L) (39175)
DEC 09...	<3	<.02	E1	<.20	<.2	<.20	<1	<.20	<.40	<.01	<.4
APR 07...	<3	<.02	E1	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2

E--Laboratory estimated value.

06936530 SPANISH LAKE TRIBUTARY NEAR BLACK JACK, MO

LOCATION.--Lat 38°48'04", long 90°12'59", 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.--Estimated daily discharges: Nov. 19-22, 28, 30, Dec. 1, 2, 16-20, 23-31, Jan. 1, 13, 23-31, Feb. 1, 6, 10, 14, 15, April 5, 6, 14, and 15. Records poor.

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	.00	.00	.01	.03	.00	.00	.05	.02	.02	.04	.14	.02
2	.00	.00	.02	.04	.01	.00	.05	.01	.00	.19	.06	.02
3	.03	.00	.05	.93	.02	.01	.04	.01	.00	.73	.02	.01
4	.01	.00	.06	.42	.03	.01	.03	.01	.57	.40	.01	.01
5	.01	.00	.69	.10	.02	.00	.02	.01	.66	.06	.03	.01
6	.00	.00	.20	.07	.01	.00	.01	.00	.06	.03	.04	.01
7	.00	.00	.12	.06	.02	.00	.62	13	.03	.02	.31	.01
8	1.1	.01	.10	.14	.01	.00	.33	.61	.01	.01	2.1	.01
9	.52	.01	1.0	.11	.01	.00	.10	.39	.00	.00	.24	.01
10	.06	.02	1.6	.07	.03	.00	.06	.16	.00	.00	.06	.42
11	.00	.01	.15	.06	.01	.01	.05	.11	.19	.08	.03	.09
12	.00	.00	.13	.06	.01	1.9	.05	.07	.21	.03	.01	.77
13	.00	.01	.07	.05	.03	2.4	.03	.08	.03	.00	.00	.03
14	.01	.01	.05	.75	.01	1.6	.02	.04	.09	.00	.00	.00
15	.00	.01	.04	3.7	.01	1.1	.01	.02	.05	.00	.00	.00
16	.01	.01	.02	.38	.01	.78	.20	.02	.11	.00	.00	.00
17	.01	.01	.02	.29	.08	.52	.20	.00	.42	.10	.24	.00
18	.01	.02	.01	.08	7.6	.32	.09	.00	.08	2.9	1.1	.00
19	.00	.01	.01	.03	.18	.24	.03	.01	.03	1.9	.04	.00
20	.00	.01	.00	.26	.13	.63	.09	.01	.12	.37	.47	.00
21	.00	.01	.04	.22	.15	.31	.03	.00	.81	.25	.06	.00
22	.00	.01	.03	.04	.13	.15	.04	.50	.12	.17	.01	.00
23	.00	.29	.02	.02	.32	.10	.04	.92	.05	.13	.00	.00
24	.00	.04	.02	.01	.14	.07	.69	.04	5.7	.08	1.1	.02
25	.00	.02	.01	.00	.04	.06	.27	.00	.62	.06	.36	3.0
26	.00	.02	.01	.00	.02	.26	.07	1.1	2.9	.02	.09	.25
27	.00	.03	.00	.00	.00	.69	.11	4.2	.34	.00	.51	.03
28	.00	.04	.00	.00	.00	.18	.13	.60	.16	9.5	.16	.01
29	.00	.02	.00	.00	.00	.09	.05	.17	.11	.61	.05	.00
30	.00	.01	.00	.00	---	.06	.03	.08	.05	.20	.04	.00
31	.00	---	.00	.00	---	.05	---	.04	---	.17	.04	---
MEAN	.057	.021	.14	.26	.31	.37	.12	.72	.45	.58	.24	.16
MAX	1.1	.29	1.6	3.7	7.6	2.4	.69	13	5.7	9.5	2.1	3.0
MIN	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	.10	.21	.15	.49	.85	.71	.46	.56	.66	.92	.19	.078
MAX	.18	.43	.18	.80	1.81	1.28	.74	.72	1.11	1.25	.26	.16
(WY)	1999	1999	1998	1999	1999	1998	1998	2000	1998	1998	1998	2000
MIN	.057	.021	.13	.26	.31	.37	.12	.47	.41	.58	.073	.003
(WY)	2000	2000	1999	2000	2000	2000	2000	1998	1999	2000	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	.47		.29		.45	
HIGHEST ANNUAL MEAN					.54	1998
LOWEST ANNUAL MEAN					.29	2000
HIGHEST DAILY MEAN	27	Feb 7	13	May 7	31	Jul 30 1998
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days 1997-2000
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 29	.00	Several Days	.00	At Times
INSTANTANEOUS PEAK FLOW[a]	---		150	Jul 28	710	Jul 30 1998
INSTANTANEOUS PEAK STAGE	---		3.53	Jul 28	5.39	Jul 30 1998
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Many Days 1997-2000
10 PERCENT EXCEEDS	1.0		.61		.82	
50 PERCENT EXCEEDS	.04		.03		.08	
90 PERCENT EXCEEDS	.00		.00		.00	

[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.--Estimated daily discharges: July 9, 10, 14-16, Aug. 4, 16, 31, and Sept. 1-7. Water-discharge records fair except for estimated daily discharges and those below 1 ft^3/s, which are poor.

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	.22	.44	.30	.30	1.1	.42	.37	.24	.39	.75	.92	.25
2	.22	1.2	.30	.29	.40	.38	.36	.23	.39	4.7	.36	.24
3	2.9	.43	.81	14	.60	4.3	.31	.21	.37	4.7	.30	.23
4	1.2	.37	.46	.53	.56	.82	.30	.22	12	1.8	.25	.23
5	.26	.35	17	.27	.32	.50	.31	.22	3.6	.48	.48	.21
6	.22	.36	.55	.25	.31	.45	.76	.79	.54	.39	.73	.21
7	.21	.39	.31	.24	.30	.43	13	229	.40	.33	9.6	.20
8	29	.41	.27	1.5	.31	.43	.97	3.5	.39	.30	35	.32
9	11	.42	14	.46	.38	.41	.49	3.4	.37	.28	1.8	.50
10	.40	.42	11	.24	.46	.30	.41	1.2	.37	.26	.72	6.8
11	.25	.42	.55	.27	.40	3.6	.49	.59	6.8	1.3	.47	.41
12	.27	.42	1.1	.24	.29	1.2	.41	.72	1.7	.35	.35	12
13	.28	.42	.34	.24	2.2	.76	.36	.82	.73	.30	.33	.36
14	.32	.42	.31	.24	.56	.47	.36	.32	2.6	.28	.32	.40
15	.30	.42	.29	.24	.31	.44	.40	.28	.57	.26	.30	.32
16	.34	.44	.30	.24	.29	.43	1.3	.27	3.8	.24	.28	.30
17	.33	.45	.30	3.7	5.8	.37	.87	.27	5.1	2.3	37	.30
18	.40	.45	.32	1.0	153	4.9	.35	.27	.77	100	11	.30
19	.35	.47	.30	.30	2.5	4.7	.36	.32	.44	11	.65	.28
20	.32	.47	.30	.25	1.2	13	.89	.30	4.4	.94	6.2	.27
21	.34	.46	.29	.24	.81	1.5	.67	.25	8.8	.52	.63	.34
22	.34	.48	.26	.25	.67	.46	.34	19	.53	.34	.40	.77
23	.33	16	.27	.27	.61	.49	2.5	5.0	.45	.24	.34	.30
24	.32	.64	.29	.24	.55	.53	6.9	.41	166	.21	16	1.5
25	.30	.36	.29	.24	.94	.52	.60	.28	4.9	.19	.91	43
26	.30	.31	.30	.24	7.3	5.4	.24	21	50	.18	.73	1.5
27	.34	.29	.30	.23	1.2	3.8	1.5	75	2.7	.17	4.3	.87
28	.33	.27	.28	.24	.64	.57	.49	3.0	1.2	206	.58	.70
29	.32	.29	.31	.25	.51	.65	.23	1.1	.83	6.6	.32	.54
30	.31	.30	.30	.27	---	.37	.21	.78	.61	1.5	.30	.47
31	.30	---	.30	.71	---	.32	---	.56	---	2.9	.27	---
MEAN	1.69	.95	1.69	.90	6.36	1.71	1.23	11.9	9.39	11.3	4.25	2.47
MAX	29	16	17	14	153	13	13	229	166	206	37	43
MIN	.21	.27	.26	.23	.29	.30	.21	.21	.37	.17	.25	.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	1.99	2.46	1.61	6.08	9.09	8.64	6.50	8.26	8.61	9.32	4.82	1.85
MAX	3.76	4.36	1.69	13.2	17.1	18.5	11.3	11.9	17.5	18.5	10.9	2.69
(WY)	1999	1999	2000	1999	1999	1998	1998	2000	1998	1998	1998	1998
MIN	.50	.95	1.51	.90	3.92	1.71	1.23	6.18	1.66	.32	1.71	.56
(WY)	1998	2000	1999	2000	1998	2000	2000	1998	1997	1997	1997	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	5.75		4.49		6.29	
HIGHEST ANNUAL MEAN					8.19	1998
LOWEST ANNUAL MEAN					4.49	2000
HIGHEST DAILY MEAN	343	Feb 7	229	May 7	381	Jul 30 1998
LOWEST DAILY MEAN	.13	Jul 19	.17	Jul 27	.05	Oct 5 1997
ANNUAL SEVEN-DAY MINIMUM	.13	Aug 16	.22	Apr 29	.06	Oct 1 1997
INSTANTANEOUS PEAK FLOW[a]	---		2450	Jul 28	4800	Jul 30 1998
INSTANTANEOUS PEAK STAGE	---		10.19	Jul 28	13.10	Jul 30 1998
INSTANTANEOUS LOW FLOW	---		.17	Jul 26-28	.12	Aug 22 1999
10 PERCENT EXCEEDS	11		5.2		9.3	
50 PERCENT EXCEEDS	1.2		.41		.97	
90 PERCENT EXCEEDS	.14		.24		.20	

[a]From rating extended above 396 ft^3/s.

07001985 WATKINS CREEK NEAR BELLEFONTAINE NEIGHBORS, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
DEC												
09...	1540	40	10.5	86	7.3	429	7.0	K2300	K1800	11000	108	108
JAN												
06...	1200	.25	11.5	82	7.0	515	1.7	K440	K360	800	111	113
FEB												
29...	1055	.54	11.3	99	7.5	763	9.3	K100	K100	K60	130	131
MAY												
26...	1114	40	6.3	67	7.5	483	18.3	K30000	44000	76000	114	114
JUN												
19...	1410	.42	5.1	63	7.4	521	26.6	K520	1100	K150	124	128
AUG												
01...	0915	.86	4.8	54	7.3	671	21.7	3000	5600	5400	148	147

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	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, ORGANIC TOTAL (mg/L as N) (00605)	NITRO-GEN, TOTAL (mg/L as N) (00600)	NITRO-GEN, AMMONIA TOTAL (mg/L as NH_4) (71845)
DEC												
09...	132	0	150	42.0	12.0	--	.88	.08	.2	.80	1.1	.10
JAN												
06...	138	0	180	48.0	15.0	58.0	.56	.09	.5	.47	1.1	.12
FEB												
29...	160	0	200	55.0	16.0	120	.50	.04	.2	.46	.69	.05
MAY												
26...	139	0	170	47.0	13.0	--	1.6	.38	.6	1.2	2.2	.49
JUN												
19...	156	0	160	45.0	12.0	--	.46	.16	.3	.30	.77	.21
AUG												
01...	179	0	230	63.0	17.0	--	.58	.09	.6	.49	1.2	.12

DATE	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, TOTAL (mg/L as NO_3) (71887)	PHOS-PHATE, TOTAL (mg/L as PO_4) (00650)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	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)
DEC												
09...	<.01	4.9	--	E.410	.410	10	160	120	1.8	<1	<1.0	1.8
JAN												
06...	<.01	4.7	--	E.160	.210	21	20	105	1.6	<1	<1.0	<1.0
FEB												
29...	<.01	3.1	.399	.130	.140	7.8	13	94	1.4	<1	<1.0	<1.0
MAY												
26...	<.01	9.8	--	E.360	.560	6.5	280	91	2.1	<1	<1.0	<1.0
JUN												
19...	<.01	3.4	--	E.190	.210	8.7	17	27	2.6	<1	<1.0	<1.0
AUG												
01...	<.01	5.4	--	E.210	.240	13	32	49	2.3	<1	<1.0	<1.0

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07001985 WATKINS CREEK NEAR BELLEFONTAINE NEIGHBORS, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	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)	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)	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)
DEC 09...	2	200	<1	460	<.1	3	<1.0	<1	92	<.10	<.10	<.10
JAN 06...	2	150	<1	450	<.1	3	<1.0	<1	28	--	--	--
FEB 29...	4	90	<1	280	<.1	2	<1.0	<1	98	--	--	--
MAY 26...	3	110	<1	260	<.1	3	<1.0	<1	88	<.10	<.10	<.10
JUN 19...	2	60	<1	400	<.1	2	<1.0	<1	43	--	--	--
AUG 01...	3	60	<1	260	<.1	3	<1.0	<1	79	--	--	--

DATE	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (µg/L) (34556)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	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-NAPH-THALENE TOTAL (µg/L) (34581)
DEC 09...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2
MAY 26...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2

DATE	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 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)
DEC 09...	<2	<3	<2	<3	<2	<2	<3	<2	<2	<.013	<2	<2.2
MAY 26...	<2	<3	<2	<3	<2	<2	<3	<2	<2	<.013	<2	<2.2

DATE	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)	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)
DEC 09...	<.10	<.10	<2	<.10	<.10	<40	<3	<3	<3	<2	<1	<3
MAY 26...	<.10	<.10	<2	<.10	<.10	<40	<3	<3	<3	<2	E1	<3

DATE	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)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)	CHRY-SENE TOTAL (µg/L) (34320)
DEC 09...	<2	<2	E5	<.20	<.20	<.1	<.10	<.2	<.10	<.01	E1
MAY 26...	<2	<2	<10	<.20	<.20	<.1	<.10	<.2	<.10	E.01	E1

E--Laboratory estimated value.

07001985 WATKINS CREEK NEAR BELLEFONTAINE NEIGHBORS, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	CYCLOPENTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)
DEC											
09...	<.10	<2	<.02	.06	<.10	<.2	<.009	<2	<.2	<2	<3
JAN											
26...	<.10	<2	<.02	.33	<.10	<.2	<.009	<2	<.2	<2	<3

DATE	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)	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)	ETHION, TOTAL (µg/L) (39398)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FLUOR-ANTHENE TOTAL (µg/L) (34376)
DEC											
09...	<5	<.12	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	E1
MAY											
26...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	.3	<.01	<.10	E1

DATE	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	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)
DEC											
09...	<2	<.01	<.10	<.009	<.011	<2	<2.6	<3	<2	<.012	<.03
MAY											
26...	<2	<.01	<.10	<.009	<.110	<2	<2.6	<3	E1	<.012	<.03

DATE	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	MIREX, TOTAL (µg/L) (39755)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	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)
DEC											
09...	<.01	<.01	6.5	<.2	<.01	<.20	E.1	<4	<3	<2	<3
MAY											
26...	<.01	<.01	9.8	<.2	<.01	<.20	<2.1	<4	<3	<2	<3

DATE	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	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)	PCNS UNFILT RECOVER (µg/L) (39250)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PER-THANE TOTAL (µg/L) (39034)	PHENAN-THRENE TOTAL (µg/L) (34461)
DEC											
09...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	<4	<.1	<1
MAY											
26...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	<4	<.1	<1

DATE	PHENOL TOTAL (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TOX-APHENE, TOTAL (µg/L) (39400)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	TOTAL TRI-THION (µg/L) (39786)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC											
09...	<3	<.02	E1	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2
MAY											
26...	<3	<.02	E1	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2

E--Laboratory estimated value.

07005000 MALINE CREEK AT BELLEFONTAINE NEIGHBORS, MO

LOCATION.--Lat 38°44'12", long 90°13'35", 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.--No estimated daily discharges. Water-discharge records fair except those below 5 ft^3/s and above 1,500 ft^3/s, which are poor.

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	.90	1.2	1.4	.40	1.8	1.6	5.8	1.7	1.3	6.1	4.8	1.5
2	1.2	1.4	.95	.66	1.6	1.3	.69	1.6	.98	11	2.6	1.4
3	10	11	9.2	162	4.2	25	.63	1.8	.84	18	1.8	1.3
4	7.2	17	6.8	10	3.9	6.3	.48	.94	16	5.4	1.6	1.3
5	1.2	4.6	168	.88	.67	1.6	.44	.87	16	3.0	1.4	1.0
6	.64	1.2	15	.48	.65	1.1	3.3	.98	2.1	2.3	4.5	1.0
7	.47	1.5	2.3	.48	.57	2.4	64	412	.97	1.9	11	1.0
8	102	2.1	1.0	28	.83	1.5	7.3	14	.57	1.5	72	.99
9	53	1.9	136	10	.50	.70	1.2	13	.47	1.1	8.4	1.1
10	3.6	1.8	141	.65	.67	.58	.83	5.1	.44	1.0	3.7	23
11	1.2	1.8	6.0	.51	.80	19	.93	3.4	37	1.1	3.3	4.9
12	.93	2.1	26	.50	.77	8.4	1.3	3.3	14	3.2	1.7	40
13	2.3	2.4	3.9	.48	17	5.5	1.0	8.0	6.8	1.5	1.5	4.1
14	1.1	2.1	2.3	.49	5.6	.82	1.0	2.1	11	1.1	1.5	2.7
15	1.1	2.1	1.5	.41	.96	1.2	1.5	1.5	5.2	1.4	1.3	3.6
16	1.0	1.8	1.2	.43	.91	.48	7.1	1.9	8.2	.98	1.2	1.3
17	1.3	3.7	1.2	44	32	.44	5.6	1.8	24	12	62	1.0
18	1.7	2.4	1.1	19	429	11	1.6	2.0	6.0	122	41	.98
19	1.4	2.1	1.1	.96	19	28	3.5	3.2	1.4	23	4.6	.96
20	1.5	1.8	.98	.57	9.9	47	14	3.4	5.4	4.1	23	.96
21	.84	2.1	.92	.47	11	5.6	6.6	2.9	31	2.1	5.0	1.1
22	.53	2.4	.62	.44	10	1.6	3.5	44	3.3	1.5	2.6	4.1
23	.61	133	.63	.72	8.1	1.0	5.2	18	1.1	1.4	2.6	2.6
24	.84	15	.59	.49	4.3	.95	43	2.7	452	1.2	46	8.9
25	.88	2.2	.56	.42	6.9	.93	9.4	.98	19	1.1	6.2	85
26	.92	1.5	.49	.40	54	17	3.2	48	123	.97	13	9.2
27	.96	1.5	.47	.38	16	26	7.3	139	13	.96	30	3.7
28	1.1	1.4	.45	.38	6.7	1.8	14	15	7.8	137	5.9	1.3
29	1.1	1.5	.43	.58	2.9	.84	10	5.2	5.5	44	3.0	.85
30	1.0	2.1	.45	.94	---	.55	2.6	3.0	4.5	12	2.0	.50
31	.82	---	.43	3.2	---	.53	---	2.9	---	9.9	1.6	---
MEAN	6.56	7.62	17.2	9.33	22.5	7.12	7.57	24.7	27.3	14.0	12.0	7.04
MAX	102	133	168	162	429	47	64	412	452	137	72	85
MIN	.47	1.2	.43	.38	.50	.44	.44	.87	.44	.96	1.2	.50
IN.	.31	.35	.81	.44	.99	.34	.35	1.17	1.25	.66	.57	.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	9.52	22.2	9.29	23.7	35.8	30.2	18.9	20.1	34.2	21.6	18.0	9.74
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	4.54	9.33	19.3	7.12	7.57	18.4	18.2	1.16	11.1	3.12
(WY)	2000	2000	1999	2000	1998	2000	2000	1999	1997	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL MEAN	21.8		13.5		20.9	
HIGHEST ANNUAL MEAN					27.7	1998
LOWEST ANNUAL MEAN					13.5	2000
HIGHEST DAILY MEAN	1050	Feb 7	452	Jun 24	1050	Feb 7 1999
LOWEST DAILY MEAN	.43	Dec 29,31	.38	Jan 27,28	.09	Aug 1,2 1997
ANNUAL SEVEN-DAY MINIMUM	.47	Dec 25	.45	Dec 26	.14	Jul 28 1997
INSTANTANEOUS PEAK FLOW[a]	---		3250	Feb 18	5270	Jul 28 1996
INSTANTANEOUS PEAK STAGE	---		11.62	Feb 18	16.26	Jul 28 1996
INSTANTANEOUS LOW FLOW	---		.22	Mar 18	.09	Aug 1,2 1997
ANNUAL RUNOFF (INCHES)	12.14		7.55		11.64	
10 PERCENT EXCEEDS	36		25		39	
50 PERCENT EXCEEDS	5.0		1.8		4.5	
90 PERCENT EXCEEDS	.96		.57		.89	

[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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
DEC												
09...	1543	307	8.5	71	6.9	269	7.7	10000	6800	5800	68	69
JAN												
06...	1005	.47	12.7	91	6.9	346	1.8	2400	1000	1900	62	65
FEB												
29...	0958	3.0	8.5	75	7.2	716	9.9	K240	160	K75	98	98
APR												
07...	0338	300	9.3	88	7.5	657	13.1	5800	7200	4200	97	93
JUN												
15...	1015	5.4	4.8	57	7.6	454	24.6	400	6000	K840	82	82
AUG												
01...	1200	4.2	6.1	73	7.5	417	25.2	1600	1500	570	104	105

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	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, ORGANIC TOTAL (mg/L as N) (00605)	NITRO-GEN, TOTAL (mg/L as N) (00600)	NITRO-GEN, AMMONIA TOTAL (mg/L as NH_4) (71845)
DEC												
09...	85	0	84	25.0	5.30	--	.65	.08	.2	.57	.83	.10
JAN												
06...	79	0	93	27.0	6.10	45.0	.70	.20	.6	.50	1.3	.26
FEB												
29...	120	0	150	43.0	10.0	130	.54	.09	.4	.45	.99	.12
APR												
07...	113	0	170	43.0	14.0	--	6.3	.61	.3	5.7	6.6	.79
JUN												
15...	101	0	130	38.0	8.70	--	.83	.07	.2	.76	1.1	.09
AUG												
01...	128	0	150	44.0	10.0	--	.60	.16	.6	.44	1.2	.21

DATE	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, TOTAL (mg/L as NO_3) (71887)	PHOS-PHATE, TOTAL (mg/L as PO_4) (00650)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	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)
DEC												
09...	<.01	3.7	--	E.300	.310	17	99	174	1.6	<1	<1.0	1.1
JAN												
06...	<.01	5.7	--	E.200	.280	14	67	390	1.6	<1	<1.0	1.7
FEB												
29...	<.01	4.4	.307	.100	.130	13	25	110	1.5	<1	<1.0	1.1
APR												
07...	<.01	29.3	3.68	1.20	1.90	5.8	2600	170	1.8	<1	<1.0	<1.0
JUN												
15...	<.01	4.8	--	E.150	.190	4.0	22	22	2.7	<1	<1.0	<1.0
AUG												
01...	<.01	5.2	--	E.200	.230	6.8	31	102	2.7	<1	<1.0	2.0

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07005000 MALINE CREEK AT BELLEFONTAINE NEIGHBORS, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	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)	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)	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)
DEC												
09...	3	280	<1	180	<.1	2	<1.0	<1	130	<.10	<.10	<.10
JAN												
06...	4	510	2	150	<.1	2	<1.0	<1	33	--	--	--
FEB												
29...	5	120	<1	130	<.1	2	<1.0	<1	63	--	--	--
APR												
07...	3	240	<1	300	.1	4	<1.0	<1	72	<.10	<.10	<.10
JUN												
15...	3	30	<1	50	<.1	3	<1.0	<1	35	--	--	--
AUG												
01...	4	140	1	94	<.1	3	<1.0	<1	47	--	--	--

DATE	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (µg/L) (34556)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	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-NAPH-THALENE TOTAL (µg/L) (34581)
DEC												
09...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2
APR												
07...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2

DATE	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 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)
DEC												
09...	<2	<3	<2	<3	<2	<2	<3	<3	<2	<.013	<2	<2.2
APR												
07...	<2	<3	<2	<3	<2	<2	4	<3	<2	<.013	<2	<2.2

DATE	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)	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)
DEC												
09...	<.10	<.10	<2	<.10	<.10	<40	E1	E1	<3	E1	E1	<3
APR												
07...	<.10	<.10	<2	<.10	<.10	<40	E1	E1	E1	E1	E1	<3

DATE	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)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)	CHRY-SENE TOTAL (µg/L) (34320)
DEC											
09...	<2	<2	<20	<.20	<.20	<.1	<.10	<.2	<.10	<.01	<1
APR											
07...	<2	<2	<20	<.20	<.20	<.1	<.10	<.2	<.10	E.01	E1

E--Laboratory estimated value.

07005000 MALINE CREEK AT BELLEFONTAINE NEIGHBORS, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	CYCLOPENTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)
DEC 09...	<.10	<2	<.02	E.02	<.10	<.2	<.009	<2	<.2	<2	<3
APR 07...	<.10	<2	<.02	.15	<.10	<.2	<.009	<2	<.2	<2	<3

DATE	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)	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)	ETHION, TOTAL (µg/L) (39398)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FLUOR-ANTHENE TOTAL (µg/L) (34376)
DEC 09...	<5	<.12	<.015	<.014	<2.0	<.2	<.10	E.1	<.01	<.10	E1
APR 07...	<5	--	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	E2

DATE	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	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)
DEC 09...	<.01	<.01	<.10	<.009	<.011	<2	<2.6	E1	<.02	<.012	<.03
APR 07...	<.01	<.01	<.10	<.009	<.011	<2	<2.6	E2	<.02	<.012	<.03

DATE	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	MIREX, TOTAL (µg/L) (39755)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	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)
DEC 09...	<.01	<.01	1.4	<.2	<.01	<.20	E.1	<4	<3	<2	<3
APR 07...	<.01	<.01	.4	<.2	<.01	<.20	E.1	<4	<3	<2	<3

DATE	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	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)	PCNS UNFILT RECOVER (µg/L) (39250)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PER-THANE TOTAL (µg/L) (39034)	PHENAN-THRENE TOTAL (µg/L) (34461)
DEC 09...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	<4	<.1	<1
APR 07...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	<4	<.1	E1

DATE	PHENOL TOTAL (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TOX-APHENE, TOTAL (µg/L) (39400)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	TOTAL TRI-THION (µg/L) (39786)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC 09...	<3	<.02	E1	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2
APR 07...	<3	<.02	E2	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2

E--Laboratory estimated value.

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.--No estimated daily discharges. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160000	107000	111000	83400	77300	169000	136000	160000	172000	364000	136000	103000
2	152000	112000	112000	92400	74400	157000	129000	145000	174000	345000	127000	106000
3	138000	99800	105000	98500	81200	158000	123000	144000	194000	331000	132000	101000
4	134000	105000	109000	100000	86200	171000	120000	138000	193000	316000	133000	99400
5	127000	105000	112000	89800	79800	170000	109000	129000	198000	305000	130000	88800
6	126000	109000	119000	87800	80700	169000	116000	121000	211000	293000	122000	78600
7	119000	108000	122000	89400	85500	158000	114000	137000	213000	285000	113000	83800
8	124000	105000	131000	79700	78000	154000	117000	183000	212000	287000	129000	76800
9	119000	102000	119000	88900	75900	151000	109000	143000	215000	286000	145000	80000
10	115000	104000	124000	94400	72400	144000	105000	123000	218000	276000	160000	86400
11	116000	104000	119000	93700	75400	142000	102000	111000	221000	248000	149000	92700
12	118000	108000	122000	86400	72600	144000	105000	121000	229000	238000	133000	92700
13	118000	110000	129000	94100	77800	140000	105000	127000	232000	243000	126000	88200
14	116000	106000	121000	92600	77600	130000	106000	119000	230000	240000	109000	101000
15	116000	102000	113000	91300	74600	121000	97800	122000	232000	240000	92500	105000
16	109000	104000	111000	83200	77800	119000	93500	118000	241000	242000	97600	110000
17	111000	103000	112000	77400	75900	125000	99300	122000	258000	243000	106000	105000
18	103000	101000	112000	80600	100000	126000	100000	121000	272000	241000	116000	115000
19	107000	106000	98200	79100	110000	128000	92500	122000	280000	256000	117000	115000
20	104000	99200	96800	87000	120000	137000	109000	118000	283000	260000	117000	109000
21	105000	90700	82400	82700	109000	138000	115000	128000	295000	259000	114000	102000
22	105000	93000	71100	78200	98400	128000	140000	142000	304000	251000	114000	101000
23	105000	97400	69000	76700	88500	133000	171000	157000	310000	240000	115000	99400
24	104000	106000	69000	76000	88900	135000	175000	160000	342000	226000	125000	90400
25	106000	114000	75400	73900	88400	129000	159000	165000	354000	204000	145000	96200
26	108000	110000	78800	67900	109000	127000	163000	164000	344000	182000	164000	113000
27	109000	110000	72200	77500	138000	128000	151000	183000	350000	162000	148000	115000
28	110000	114000	72800	87400	162000	116000	155000	226000	376000	151000	121000	106000
29	105000	121000	73400	87300	169000	114000	155000	230000	385000	153000	109000	101000
30	104000	115000	72000	84700	---	124000	159000	206000	381000	135000	102000	99000
31	111000	---	77100	83000	---	134000	---	193000	---	134000	95200	---
MEAN	116300	105700	100400	85320	93250	139300	124400	147700	264000	246300	123900	98680
MAX	160000	121000	131000	100000	169000	171000	175000	230000	385000	364000	164000	115000
MIN	103000	90700	69000	67900	72400	114000	92500	111000	172000	134000	92500	76800
IN.	.19	.17	.17	.14	.14	.23	.20	.24	.42	.41	.21	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2000, BY WATER YEAR (WY)

MEAN	140000	144700	124600	116200	144500	230200	306500	290900	269400	223300	145900	137600
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1933 - 2000	
ANNUAL MEAN	233100		137200		189600	
HIGHEST ANNUAL MEAN					429700	1993
LOWEST ANNUAL MEAN					67700	1934
HIGHEST DAILY MEAN	548000	May 8	385000	Jun 29	1050000	Aug 1 1993
LOWEST DAILY MEAN	69000	Dec 23,24	67900	Jan 26	27800	Dec 12 1937
ANNUAL SEVEN-DAY MINIMUM	72600	Dec 22	72600	Dec 22	28200	Jan 18 1940
INSTANTANEOUS PEAK FLOW	---		386000	Jun 29	1080000	Aug 1 1993
INSTANTANEOUS PEAK STAGE	---		25.43	Jun 29	49.58	Aug 1 1993
INSTANTANEOUS LOW FLOW	---		65800	Jan 26	27800	Dec 12 1937
ANNUAL RUNOFF (INCHES)	4.54		2.68		3.70	
10 PERCENT EXCEEDS	456000		240000		369000	
50 PERCENT EXCEEDS	201000		116000		153000	
90 PERCENT EXCEEDS	105000		80700		69000	

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 turbidity readings. Sediment records fair.

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, 1,550 mg/L, May 8; minimum daily mean 51 mg/L, Nov. 15.
SEDIMENT LOADS: Maximum daily, 766,000 tons, May 8; minimum daily, 13,600 tons, Jan. 24.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	160000	160	69200	107000	68	19600	111000	72	21600
2	152000	220	90400	112000	66	20000	112000	67	20100
3	138000	169	63000	99800	60	16200	105000	68	19400
4	134000	132	47800	105000	60	17000	109000	68	20000
5	127000	137	46800	105000	59	16700	112000	76	23300
6	126000	144	49200	109000	61	17900	119000	82	26400
7	119000	128	41100	108000	64	18700	122000	89	29300
8	124000	124	41700	105000	63	17800	131000	81	28600
9	119000	117	37700	102000	76	20900	119000	84	27000
10	115000	129	40000	104000	71	19800	124000	80	26700
11	116000	140	43900	104000	74	20900	119000	84	26800
12	118000	105	33500	108000	64	18500	122000	77	25400
13	118000	104	33100	110000	61	18000	129000	119	41300
14	116000	98	30700	106000	67	19300	121000	98	31900
15	116000	102	32000	102000	51	14100	113000	103	31400
16	109000	101	29700	104000	66	18500	111000	93	28000
17	111000	89	26600	103000	62	17100	112000	101	30600
18	103000	86	23800	101000	69	18800	112000	88	26500
19	107000	85	24500	106000	90	25700	98200	73	19300
20	104000	88	24800	99200	81	21600	96800	90	23400
21	105000	98	27800	90700	70	17000	82400	85	18900
22	105000	87	24700	93000	70	17500	71100	71	13700
23	105000	83	23400	97400	83	21800	69000	79	14700
24	104000	82	23100	106000	75	21400	69000	88	16400
25	106000	82	23400	114000	70	21600	75400	78	15900
26	108000	82	24000	110000	67	19600	78800	90	19100
27	109000	80	23700	110000	68	20100	72200	83	16100
28	110000	86	25700	114000	71	21900	72800	87	17100
29	105000	84	23800	121000	72	23600	73400	77	15300
30	104000	75	21200	115000	80	24900	72000	75	14500
31	111000	71	21300	---	---	---	77100	67	14000

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	83400	76	17100	77300	97	20100	169000	210	95800
2	92400	75	18700	74400	89	18000	157000	190	80700
3	98500	73	19400	81200	105	23100	158000	161	68700
4	100000	74	20000	86200	125	28900	171000	174	80200
5	89800	94	22800	79800	93	20100	170000	158	72400
6	87800	74	17500	80700	103	22400	169000	171	78100
7	89400	69	16500	85500	76	17600	158000	156	66000
8	79700	70	15200	78000	74	15500	154000	180	74800
9	88900	61	14600	75900	99	20300	151000	156	63700
10	94400	64	16300	72400	85	16600	144000	151	58900
11	93700	59	15000	75400	83	16900	142000	151	58000
12	86400	66	15400	72600	79	15500	144000	166	64600
13	94100	69	17700	77800	82	17300	140000	146	55200
14	92600	71	17700	77600	78	16300	130000	141	49300
15	91300	70	17300	74600	85	17100	121000	139	45300
16	83200	73	16200	77800	118	24900	119000	134	43000
17	77400	78	16300	75900	118	24200	125000	133	45000
18	80600	83	18100	100000	539	147000	126000	133	45200
19	79100	95	20300	110000	730	219000	128000	127	43900
20	87000	89	21100	120000	509	165000	137000	135	50400
21	82700	87	19300	109000	311	91500	138000	154	57200
22	78200	70	14700	98400	412	109000	128000	130	45100
23	76700	68	14100	88500	294	70100	133000	130	46700
24	76000	66	13600	88900	230	55400	135000	115	41900
25	73900	78	15600	88400	177	42200	129000	97	33700
26	67900	86	15800	109000	110	32600	127000	90	30800
27	77500	91	19100	138000	111	41500	128000	94	32600
28	87400	90	21100	162000	179	78800	116000	92	28400
29	87300	82	19400	169000	183	83200	114000	105	32600
30	84700	89	20400	---	---	---	124000	143	48000
31	83000	82	18400	---	---	---	134000	106	38800
		APRIL			MAY			JUNE	
1	136000	115	42200	160000	145	62800	172000	315	145000
2	129000	123	42700	145000	124	48600	174000	253	120000
3	123000	136	45100	144000	116	45100	194000	298	156000
4	120000	258	83600	138000	117	43800	193000	288	150000
5	109000	246	72400	129000	119	41400	198000	316	170000
6	116000	234	73400	121000	119	38900	211000	375	214000
7	114000	209	64200	137000	311	116000	213000	412	237000
8	117000	196	62000	183000	1550	766000	212000	414	237000
9	109000	167	49100	143000	272	104000	215000	416	241000
10	105000	155	43900	123000	155	51000	218000	403	237000
11	102000	149	41000	111000	124	37200	221000	382	228000
12	105000	148	41900	121000	122	40200	229000	393	243000
13	105000	117	33200	127000	133	45500	232000	421	264000
14	106000	117	33500	119000	133	42400	230000	385	239000
15	97800	100	26500	122000	126	41500	232000	379	237000
16	93500	82	20600	118000	119	37800	241000	308	200000
17	99300	117	31400	122000	138	45400	258000	391	274000
18	100000	101	27300	121000	96	31200	272000	384	282000
19	92500	87	21700	122000	111	36300	280000	411	311000
20	109000	170	50100	118000	112	35800	283000	402	307000
21	115000	128	40100	128000	126	43400	295000	439	349000
22	140000	127	48200	142000	133	50800	304000	409	336000
23	171000	139	64100	157000	168	71400	310000	374	313000
24	175000	166	78400	160000	152	65500	342000	683	632000
25	159000	193	82900	165000	188	83700	354000	506	484000
26	163000	231	102000	164000	213	94400	344000	434	403000
27	151000	199	81200	183000	324	160000	350000	422	399000
28	155000	193	80700	226000	674	413000	376000	662	672000
29	155000	176	73700	230000	556	344000	385000	443	461000
30	159000	161	69200	206000	606	337000	381000	651	668000
31	---	---	---	193000	450	233000	---	---	---

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	598	588000	136000	96	35000	103000	165	45900
2	345000	513	478000	127000	94	32300	106000	168	48100
3	331000	457	407000	132000	87	31000	101000	152	41500
4	316000	360	307000	133000	114	40900	99400	168	44900
5	305000	340	280000	130000	109	38200	88800	144	34400
6	293000	332	263000	122000	100	33000	78600	139	29400
7	285000	338	260000	113000	72	22000	83800	142	32100
8	287000	380	295000	129000	104	36400	76800	143	29600
9	286000	329	254000	145000	133	52400	80000	145	31300
10	276000	298	221000	160000	99	42900	86400	140	32700
11	248000	344	229000	149000	92	37100	92700	137	34300
12	238000	378	243000	133000	84	30300	92700	135	33800
13	243000	357	234000	126000	90	30800	88200	134	31800
14	240000	324	210000	109000	101	29400	101000	138	37900
15	240000	266	172000	92500	112	28000	105000	133	37700
16	242000	273	178000	97600	105	27600	110000	165	48900
17	243000	273	179000	106000	108	31300	105000	132	37800
18	241000	239	156000	116000	111	34800	115000	137	42700
19	256000	376	261000	117000	104	32800	115000	127	39500
20	260000	346	243000	117000	121	38200	109000	124	36400
21	259000	235	164000	114000	100	30900	102000	116	31900
22	251000	208	141000	114000	136	41900	101000	113	30800
23	240000	203	131000	115000	145	45200	99400	113	30300
24	226000	221	135000	125000	168	57300	90400	114	27800
25	204000	264	145000	145000	292	114000	96200	129	33700
26	182000	159	78200	164000	331	147000	113000	140	42800
27	162000	128	55900	148000	385	154000	115000	109	33800
28	151000	247	101000	121000	252	81700	106000	98	27700
29	153000	154	63500	109000	219	64400	101000	90	24600
30	135000	132	48000	102000	199	54200	99000	102	27300
31	134000	114	41300	95200	152	39100	---	---	---

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.--No estimated daily discharge. Water-discharge records fair above 1 ft^3/s and poor below.

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	.04	.61	.03	.16	.25	.07	.02	.03	.01	2.0	.45	.00
2	1.8	1.3	.08	.18	.08	.07	.02	.01	.01	19	.05	.00
3	11	.01	5.3	46	.78	8.6	.02	.03	.01	2.7	.01	.00
4	1.4	.00	3.5	.60	.24	.24	.01	.02	.06	.12	.00	.00
5	.10	.00	44	.07	.16	.07	.02	.02	.88	.05	.32	.00
6	.02	.00	2.4	.04	.07	.06	.46	.07	.02	.03	.16	.00
7	.06	.00	.52	.02	.08	.12	67	585	.01	.02	11	.00
8	78	.00	.34	6.9	.31	.19	.51	1.8	.02	.01	49	.00
9	34	.00	61	.71	.33	.18	.07	2.6	.04	.00	.11	.00
10	.32	.00	21	.21	.47	.15	.07	.13	.00	.00	.01	5.8
11	.49	.00	.37	.15	.08	11	.06	.02	82	1.0	.00	.07
12	.01	.00	7.5	.12	.42	5.1	.05	2.0	12	.63	.00	51
13	.01	.00	.28	.08	5.7	1.1	.06	.33	.54	.00	.00	.04
14	.00	.00	.24	.14	.23	.67	.05	.02	5.6	.00	.00	.79
15	.00	.00	.21	.10	.08	.37	.05	.01	.09	.00	.00	.05
16	.00	.00	.20	.09	.05	.18	8.7	.02	14	.00	.00	.00
17	.00	.00	.11	13	22	.17	.23	.04	11	6.7	76	.00
18	.00	.00	.38	1.2	303	5.1	.18	.03	.34	6.0	30	.00
19	.00	.03	.05	.29	.63	17	.10	.01	.11	1.7	.15	.00
20	.00	.01	.17	.10	.07	17	5.0	.00	35	.03	20	.00
21	.00	.00	.03	.07	.06	1.0	.29	.00	16	.01	.06	.00
22	.10	.00	.02	.14	.06	.58	.05	19	.09	.00	.01	.06
23	.00	32	.05	.16	.06	.51	13	1.9	.06	.00	.00	.13
24	.00	.89	.08	.05	.07	.47	16	.08	711	.00	45	11
25	.00	.12	.07	.05	5.9	.47	.53	.03	6.4	.00	.06	78
26	.00	.05	.10	.02	14	37	.15	80	148	.00	3.6	.33
27	.00	.04	.11	.29	.33	4.1	1.3	123	2.1	.00	21	.02
28	.00	.04	.10	.07	.09	.31	.25	4.7	.29	95	.08	.01
29	.00	.03	.30	.14	.06	.04	.12	.12	.28	57	.00	.00
30	.00	.02	.50	.57	---	.02	.06	.04	.10	1.9	.00	.00
31	.00	---	.20	1.5	---	.02	---	.01	---	2.4	.00	---
MEAN	4.11	1.17	4.81	2.36	12.3	3.61	3.81	26.5	34.9	6.33	8.29	4.91
MAX	78	32	61	46	303	37	67	585	711	95	76	78
MIN	.00	.00	.02	.02	.05	.02	.01	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	3.62	4.37	3.22	10.7	16.5	14.6	9.69	12.9	30.7	11.4	6.46	3.50
MAX	4.11	7.42	4.81	20.9	27.7	33.4	16.1	26.5	34.9	20.1	8.29	4.91
(WY)	2000	1999	2000	1999	1999	1998	1998	2000	2000	1998	2000	2000
MIN	3.11	1.17	1.23	2.36	9.58	3.61	3.81	4.20	23.4	6.33	4.74	1.29
(WY)	1998	2000	1999	2000	1998	2000	2000	1999	1999	2000	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	9.53		9.38		10.6	
HIGHEST ANNUAL MEAN					12.6	1998
LOWEST ANNUAL MEAN					9.38	2000
HIGHEST DAILY MEAN	584	Feb 7	711	Jun 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
INSTANTANEOUS PEAK FLOW[a]	---		4570	Jun 24	5680	Jun 12 1999
INSTANTANEOUS PEAK STAGE	---		14.24	Jun 24	15.74	Jun 12 1999
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Each Year
10 PERCENT EXCEEDS	19		13		19	
50 PERCENT EXCEEDS	.21		.08		.18	
90 PERCENT EXCEEDS	.00		.00		.00	

[a]From rating extended above 653 ft^3/s.

07010022 RIVER DES PERES NEAR UNIVERSITY CITY--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
JAN												
06...	0740	.03	12.2	85	7.8	535	.7	K350	K680	K50	110	112
FEB												
18...	0133	964	13.0	98	7.7	235	3.4	28000	K35000	45000	48	20
29...	0756	.06	9.0	76	7.8	595	8.1	K180	350	K170	115	118
MAY												
07...	0121	229	7.8	92	6.8	343	23.5	36000	48000	98000	86	86
JUN												
15...	0815	.06	3.7	41	7.3	429	21.0	1800	4000	2800	93	93
AUG												
01...	1015	.35	4.5	54	7.5	659	24.5	3200	5000	360	127	129

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	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, ORGANIC TOTAL (mg/L as N) (00605)	NITRO-GEN, TOTAL (mg/L as N) (00600)	NITRO-GEN, AMMONIA TOTAL (mg/L as NH_4) (71845)
JAN												
06...	137	0	170	50.0	12.0	83.0	.93	.31	.8	.62	1.7	.40
FEB												
18...	24	0	37	12.0	1.70	--	8.1	.47	.5	7.6	8.6	.61
29...	144	0	180	53.0	11.0	110	.45	.04	.1	.41	.50	.05
MAY												
07...	105	0	--	--	--	--	--	--	--	--	--	--
JUN												
15...	114	0	110	36.0	6.00	--	.70	.14	.2	.56	.95	.18
AUG												
01...	157	0	170	53.0	10.0	--	.83	.42	.5	.41	1.3	.54

DATE	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, TOTAL (mg/L as NO_3) (71887)	PHOS-PHATE, TOTAL (mg/L as PO_4) (00650)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	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)
JAN												
06...	<.01	7.6	--	E.140	.240	3.7	6	38	1.2	<1	<1.0	<1.0
FEB												
18...	<.01	37.9	--	E.940	1.50	2.1	1400	393	1.4	<1	<1.0	1.6
29...	<.01	2.2	.276	.090	.110	3.9	12	58	1.3	<1	<1.0	<1.0
JUN												
15...	E.03	4.2	--	E.130	.170	8.0	12	51	2.0	<1	<1.0	1.5
AUG												
01...	E.01	5.8	--	E.200	.240	8.3	5	14	2.5	<1	<1.0	49.0

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)	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)	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)	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)
JAN												
06...	3	100	<1	85	<.1	2	<1.0	<1	52	--	--	--
FEB												
18...	5	480	4	66	.3	1	<1.0	<1	34	<.10	<.10	<.10
29...	3	140	<1	140	<.1	2	<1.0	<1	42	--	--	--
MAY												
07...	--	--	--	--	--	--	--	--	--	<.10	<.10	<.10
JUN												
15...	3	90	<1	110	<.1	2	<1.0	<1	40	--	--	--
AUG												
01...	3	20	<1	130	<.1	3	1.2	<1	12	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07010022 RIVER DES PERES NEAR UNIVERSITY CITY--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	1,2,5,6-DIBENZANTHRACENE TOTAL (µg/L) (34556)	1,2-DICHLOROETHANE TOTAL (µg/L) (32103)	1,2-DICHLOROPROPANE TOTAL (µg/L) (34541)	1,2-DIPHENYLHYDRAZINE WATER TOT.REC (µg/L) (82626)	TRANS-1,2-DICHLOROETHENE TOTAL (µg/L) (34546)	2,4,6-TRICHLOROPHENOL TOTAL (µg/L) (34621)	2,4-DIMETHYLPHENOL TOTAL (µg/L) (34606)	2,4-DICHLOROPHENOL TOTAL (µg/L) (34601)	2,4,-DINITROPHENOL TOTAL (µg/L) (34616)	2,4-DINITROTOLUENE TOTAL (µg/L) (34611)	2,6-DINITROTOLUENE TOTAL (µg/L) (34626)	2-CHLORONAPHTHALENE TOTAL (µg/L) (34581)
FEB												
18...	E1	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2
MAY												
07...	E1	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2

DATE	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 1,2,4-TRICHLORO-WAT UNF REC (µg/L) (34551)
FEB												
18...	<2	<3	<2	<3	<2	<2	E1	E1	E1	<.013	E1	<2.2
MAY												
07...	<2	<3	<2	<3	<2	<2	E1	E1	E1	<.013	E1	<2.2

DATE	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)	BENZENE O-DICHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)	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)
FEB												
18...	<.10	.21	<2	<.10	<.10	<40	5	8	4	4	5	<3
MAY												
07...	<.10	.33	<2	<.10	<.10	<40	E1	E2	E2	E1	E1	<3

DATE	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)	BROMOFORM TOTAL (µg/L) (32104)	CARBON TETRACHLORIDE TOTAL (µg/L) (32102)	CHLORDANE, TECHNICAL TOTAL (µg/L) (39350)	CHLOROBENZENE TOTAL (µg/L) (34301)	CHLORODIBROMOMETHANE TOTAL (µg/L) (32105)	CHLOROFORM TOTAL (µg/L) (32106)	CHLORPYRIFOS TOTAL RECOVER (µg/L) (38932)	CHRYSENE TOTAL (µg/L) (34320)
FEB											
18...	<2	<2	<10	<.20	<.20	.3	<.10	<.2	<.10	.17	7
MAY											
07...	<2	<2	<10	<.20	<.20	E.1	<.10	<.2	.22	1.10	E2

DATE	CIS-1,2-DICHLOROETHENE WATER TOTAL (µg/L) (77093)	CYCLOPENTADIENE HEXACHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DIAZINON, TOTAL (µg/L) (39570)	DIBROMOCHLOROMETHANE TOTAL (µg/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (µg/L) (34668)	DIELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHALATE TOTAL (µg/L) (34336)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DIMETHYL PHTHALATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHALATE TOTAL (µg/L) (39110)
FEB											
18...	.15	<2	<.02	.29	<.10	<.2	<.009	<2	<.2	<2	<3
MAY											
07...	.25	<2	<.02	.26	<.10	<.2	<.009	<2	<.2	<2	4

E--Laboratory estimated value.

07010022 RIVER DES PERES NEAR UNIVERSITY CITY--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)	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)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)	ETHION, TOTAL (µg/L) (39398)	ETHYLBENZENE TOTAL (µg/L) (34371)	FLUORANTHENE TOTAL (µg/L) (34376)
FEB											
18...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	13
MAY											
07...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	4

DATE	FLUORENE TOTAL (µg/L) (34381)	FONOFOS (DYFONATE) WATER WHOLE TOT.REC (µg/L) (82614)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEPTACHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTACHLOR, TOTAL (µg/L) (39410)	HEXACHLOROBENZENE TOTAL (µg/L) (39700)	HEXACHLOROBUTADIENE TOTAL (µg/L) (39702)	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)
FEB											
18...	<.02	<.01	<.10	<.009	<.009	<2	<2.6	6	E1	<.012	<.03
MAY											
07...	<.02	<.01	<.10	<.009	<.011	<2	<2.6	E1	E1	<.012	.11

DATE	METHOXYCHLOR, TOTAL (µg/L) (39480)	METHYL PARATHION, TOTAL (µg/L) (39600)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLORIDE TOTAL (µg/L) (34423)	MIREX, TOTAL (µg/L) (39755)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTHALENE TOTAL (µg/L) (34696)	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)
FEB											
18...	<.01	<.01	.2	.9	<.01	E.10	E.2	<4	<3	<2	<3
MAY											
07...	<.01	<.01	1.4	E.1	<.01	E.13	E.1	<4	<3	<2	<3

DATE	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	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)	PCNS UNFILT RECOVER (µg/L) (39250)	PENTACHLOROPHENOL TOTAL (µg/L) (39032)	PERTHANE TOTAL (µg/L) (39034)	PHENANTHRENE TOTAL (µg/L) (34461)
FEB											
18...	.16	<.014	<.016	<.017	<3	<.01	<.1	<.1	E2	<.1	6
MAY											
07...	.11	<.014	<.016	<.017	<3	<.01	<.1	<.1	E1	<.1	E2

DATE	PHENOL TOTAL (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	STYRENE TOTAL (µg/L) (77128)	TETRACHLOROETHYLENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TOXAPHENE, TOTAL (µg/L) (39400)	TRICHLOROETHYLENE TOTAL (µg/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (µg/L) (34488)	TOTAL TRITHION (µg/L) (39786)	VINYL CHLORIDE TOTAL (µg/L) (39175)
FEB											
18...	<3	<.02	10	<.10	.1	.21	<1	<.10	<.20	E.01	<.2
MAY											
07...	<3	<.02	3	<.10	3.5	<.10	<1	.52	<.20	<.01	<.2

E--Laboratory estimated value.

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.--Estimated daily discharges: Oct. 13, 14, 16, Dec. 1, 2, 22, Jan. 1, 11-13, 26-28, March 7-10, March 29 to April 2, May 2-5, 15-16, 19, 20, June 8-10, July 9, 10, 16, 23-26, Aug. 3, 4, 16, Sept. 1-8, and 17-20. Record poor.

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	.06	.10	.08	.10	.15	.16	.09	.07	.08	.21	.06	.07
2	.13	.03	.07	.11	.16	.15	.08	.06	.07	1.9	.05	.06
3	.40	.01	.34	6.4	.15	.85	.11	.05	.07	.45	.04	.07
4	.16	.02	.40	.17	.11	.16	.10	.05	.32	.09	.03	.06
5	.07	.02	3.5	.11	.09	.15	.13	.04	.19	.07	.07	.05
6	.07	.01	.22	.10	.08	.13	.09	.09	.07	.07	.07	.05
7	.10	.02	.11	.09	.07	.10	8.5	84	.07	.06	1.1	.06
8	6.4	.02	.09	.33	.10	.13	.18	.99	.06	.06	4.1	.07
9	3.7	.03	5.2	.12	.09	.12	.11	.57	.05	.05	.10	.12
10	.11	.03	2.1	.09	.09	.11	.10	.18	.04	.04	.06	.47
11	.07	.05	.22	.08	.08	.80	.09	.12	9.8	.38	.05	.11
12	.05	.03	.47	.09	.07	.22	.09	1.0	1.0	.08	.05	2.7
13	.04	.03	.14	.11	.48	.14	.09	.18	.25	.06	.05	.09
14	.03	.04	.10	.07	.12	.14	.08	.08	.32	.05	.05	.13
15	.05	.03	.10	.06	.09	.14	.08	.04	.16	.05	.04	.09
16	.04	.02	.09	.06	.09	.13	.37	.05	1.4	.04	.03	.08
17	.08	.02	.15	.63	1.6	.13	.08	.06	1.2	1.1	2.1	.07
18	.06	.03	.20	.15	51	.50	.07	.06	.21	1.9	2.0	.06
19	.04	.03	.14	.09	.36	1.1	.09	.05	.15	.38	.14	.05
20	.04	.03	.13	.10	.20	1.3	.09	.04	2.8	.06	2.2	.06
21	.05	.04	.11	.08	.16	.15	.07	.05	1.4	.05	.10	.08
22	.04	.04	.10	.09	.16	.14	.07	2.1	.12	.05	.09	.10
23	.05	1.5	.11	.10	.15	.14	1.1	.37	.08	.04	.09	.09
24	.05	.46	.13	.08	.14	.11	1.9	.08	111	.03	4.5	.80
25	.05	.27	.12	.07	.57	.11	.12	.06	1.9	.04	.12	8.9
26	.04	.24	.19	.05	1.4	3.1	.08	8.5	21	.03	.27	.22
27	.04	.18	.16	.07	.19	.71	.20	13	.79	.05	1.9	.11
28	.03	.13	.12	.06	.16	.11	.08	.87	.32	5.0	.12	.10
29	.03	.12	.13	.09	.16	.10	.08	.21	.17	3.5	.09	.31
30	.04	.09	.13	.13	---	.09	.07	.14	.23	.19	.09	.09
31	.03	---	.11	.14	---	.08	---	.10	---	.06	.08	---
MEAN	.39	.12	.49	.32	2.01	.37	.48	3.65	5.18	.52	.64	.51
MAX	6.4	1.5	5.2	6.4	51	3.1	8.5	84	111	5.0	4.5	8.9
MIN	.03	.01	.07	.05	.07	.08	.07	.04	.04	.03	.03	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	.48	.73	.42	2.04	3.53	2.78	1.66	1.93	4.79	2.14	1.20	.62
MAX	.62	1.45	.49	4.50	7.35	6.56	3.06	3.65	5.18	6.51	2.21	1.16
(WY)	1999	1999	2000	1999	1999	1998	1998	2000	2000	1998	1998	1998
MIN	.39	.12	.33	.32	1.28	.37	.48	.51	4.18	.25	.59	.14
(WY)	2000	2000	1999	2000	1998	2000	2000	1999	1999	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	1.83		1.22		1.89	
HIGHEST ANNUAL MEAN					2.53	1998
LOWEST ANNUAL MEAN					1.22	2000
HIGHEST DAILY MEAN	148	Feb 7	111	Jun 24	148	Feb 7 1999
LOWEST DAILY MEAN	.01	Nov 3,6	.01	Nov 3,6	.01	Nov 3,6 1999
ANNUAL SEVEN-DAY MINIMUM	.02	Nov 2	.02	Nov 2	.02	Nov 2 1999
INSTANTANEOUS PEAK FLOW[a]	---		947	Jun 24	2490	Jul 22 1998
INSTANTANEOUS PEAK STAGE	---		7.03	Jun 24	8.84	Jul 22 1998
INSTANTANEOUS LOW FLOW	---		.01	Nov 3,6	.01	Nov 3,6 1999
10 PERCENT EXCEEDS	2.6		1.3		2.5	
50 PERCENT EXCEEDS	.25		.10		.22	
90 PERCENT EXCEEDS	.05		.04		.06	

[a]From rating extended above 48 ft^3/s.

07010035 ENGELHOLM CREEK NEAR WELLSTON, MO

LOCATION.--Lat 38°40'57", long 90°18'10", 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 1997 to April 1998 published as Engelholm Creek at Pagedale (07010034).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage unknown.

REMARKS.--Estimated daily discharges: Nov. 26-30, Dec. 17, 19, 23, 25, 27-31, Jan. 1, 11-13, 21, 22, 26, 28, May 2 and 4. Record poor.

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	.23	.24	.18	.17	.20	.20	.14	.11	.14	.25	.28	.14
2	.26	.24	.19	.19	.20	.19	.14	.10	.13	.78	.26	.13
3	.41	.23	.26	4.6	.22	.43	.18	.11	.14	.30	.25	.14
4	.29	.24	.26	.34	.19	.22	.15	.10	.25	.19	.24	.14
5	.25	.25	2.8	.30	.15	.20	.17	.11	.25	.18	.25	.14
6	.25	.24	.36	.30	.15	.20	.18	.15	.14	.19	.30	.13
7	.25	.24	.33	.27	.16	.22	5.2	40	.13	.15	.64	.15
8	4.8	.24	.33	.44	.15	.25	.22	.40	.13	.14	3.4	.14
9	2.8	.24	4.3	.31	.16	.32	.16	.29	.12	.15	.36	.14
10	.21	.22	1.7	.30	.16	.34	.14	.18	.12	.15	.28	.27
11	.18	.22	.23	.28	.15	.44	.14	.16	5.5	.14	.26	.15
12	.18	.22	.35	.31	.14	.26	.13	.17	.56	.16	.22	1.6
13	.20	.22	.20	.30	.19	.27	.13	.15	.22	.14	.22	.18
14	.22	.21	.20	.30	.24	.38	.13	.12	.23	.14	.20	.21
15	.23	.20	.20	.28	.15	.33	.11	.14	.17	.14	.18	.16
16	.21	.20	.20	.24	.14	.32	.22	.14	.74	.15	.17	.14
17	.24	.17	.17	.61	.27	.23	.14	.13	.70	.81	.90	.14
18	.21	.17	.19	.21	24	.28	.12	.13	.22	2.0	1.2	.14
19	.21	.16	.18	.17	.36	.55	.12	.13	.18	.65	.17	.13
20	.21	.16	.19	.19	.28	1.2	.12	.12	.93	.33	1.3	.14
21	.22	.16	.18	.17	.24	.44	.13	.12	1.5	.31	.20	.15
22	.26	.15	.22	.18	.22	.44	.13	1.4	.19	.28	.19	.18
23	.27	.95	.17	.19	.21	.28	.59	.24	.18	.29	.15	.13
24	.26	.21	.19	.18	.22	.27	.86	.13	43	.26	3.5	.51
25	.25	.17	.18	.16	.34	.25	.17	.13	.82	.30	.23	5.5
26	.24	.16	.19	.12	.94	2.2	.13	4.6	11	.34	.29	.31
27	.23	.15	.18	.16	.25	.42	.15	8.4	.37	.34	1.7	.16
28	.22	.14	.17	.14	.22	.19	.27	.71	.28	3.2	.23	.14
29	.22	.13	.18	.16	.21	.15	.13	.21	.24	1.7	.17	.14
30	.20	.11	.19	.16	---	.16	.11	.17	.23	.44	.16	.14
31	.19	---	.18	.19	---	.16	---	.16	---	.35	.15	---
MEAN	.46	.22	.48	.38	1.05	.38	.36	1.91	2.29	.48	.58	.40
MAX	4.8	.95	4.3	4.6	24	2.2	5.2	40	43	3.2	3.5	5.5
MIN	.18	.11	.17	.12	.14	.15	.11	.10	.12	.14	.15	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN	.58	.80	.58	1.76	2.15	.81	.84	1.34	1.84	1.39	.81	.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	.46	.22	.48	.38	1.05	.38	.36	.76	1.38	.48	.45	.21
(WY)	2000	2000	2000	2000	2000	2000	2000	1999	1999	2000	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL MEAN	1.13		.75		1.01	
HIGHEST ANNUAL MEAN					1.27	1999
LOWEST ANNUAL MEAN					.75	2000
HIGHEST DAILY MEAN	48	Feb 7	43	Jun 24	48	Feb 7 1999
LOWEST DAILY MEAN	.11	Nov 30	.10	May 2	.10	May 2 2000
ANNUAL SEVEN-DAY MINIMUM	.15	Nov 25	.11	Apr 29	.11	Apr 29 2000
INSTANTANEOUS PEAK FLOW	---		237	Feb 18	456	Jul 22 1998
INSTANTANEOUS PEAK STAGE	---		6.12	Feb 18	8.88	Jul 22 1998
INSTANTANEOUS LOW FLOW	---		.10	Apr 19-21,May 24-26	.10	Apr 19-21,May 24-26 2000
10 PERCENT EXCEEDS	2.3		.75		2.0	
50 PERCENT EXCEEDS	.33		.21		.35	
90 PERCENT EXCEEDS	.17		.13		.15	

07010035 ENGELHOLM CREEK NEAR WELLSTON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1997 to current year.

REMARKS--Published as Engleholm Creek at Pagedale (07010034) water years 1997 and 1998.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
JAN												
06...	0845	.30	12.5	92	7.8	719	2.8	K50	K50	K50	100	102
FEB												
18...	0218	224	12.7	93	7.1	156	2.6	4000	22000	18000	58	80
29...	0706	.21	8.1	69	7.4	763	8.2	K67	270	K180	138	144
MAY												
07...	0201	7.7	7.0	76	6.9	338	19.5	100000	22000	84000	81	91
JUN												
15...	0735	.17	4.2	46	7.6	768	20.2	780	1500	2000	131	134
JUL												
31...	1620	.37	3.1	36	7.7	723	22.8	480	4800	900	139	140

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	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, ORGANIC TOTAL (mg/L as N) (00605)	NITRO-GEN, TOTAL (mg/L as N) (00600)	NITRO-GEN, AMMONIA TOTAL (mg/L as NH_4) (71845)
JAN												
06...	124	0	200	45.0	22.0	52.0	1.6	.88	1.1	.72	2.7	1.13
FEB												
18...	98	0	44	13.0	2.80	--	8.2	.37	.6	7.8	8.8	.48
29...	175	0	220	60.0	17.0	83.0	1.0	.55	.7	.45	1.7	.71
MAY												
07...	111	0	95	28.0	6.00	--	3.6	.08	.2	3.5	3.8	.10
JUN												
15...	164	0	220	59.0	18.0	--	.91	.41	.5	.50	1.4	.53
JUL												
31...	171	0	220	59.0	17.0	--	.47	.22	.6	.25	1.1	1.6

DATE	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, TOTAL (mg/L as NO_3) (71887)	PHOS-PHATE, TOTAL (mg/L as PO_4) (00650)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	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)
JAN												
06...	<.01	12.0	--	E.260	.350	3.0	2	8	1.0	<1	<1.0	<1.0
FEB												
18...	<.01	39.0	4.91	1.60	3.40	8.7	5000	2600	2.3	<1	<1.0	3.3
29...	<.01	7.4	.583	.190	.220	10	6	10	1.2	<1	<1.0	<1.0
MAY												
07...	<.01	16.9	--	E.800	1.20	19	1000	205	2.3	<1	<1.0	<1.0
JUN												
15...	E.11	6.2	--	E.270	.300	6.7	14	11	2.1	<1	<1.0	<1.0
JUL												
31...	E.03	5.0	--	E.270	.290	5.7	11	16	2.5	<1	<1.0	1.6

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07010035 ENGELHOLM CREEK NEAR WELLSTON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	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)	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)	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)
JAN 06...	2	70	<1	230	<.1	2	1.1	<1	23	--	--	--
FEB 18...	10	2900	24	150	.7	4	<1.0	<1	110	<.10	<.10	<.10
29...	3	130	<1	470	<.1	3	<1.0	<1	100	--	--	--
MAY 07...	6	320	5	670	.1	3	<1.0	<1	98	<.10	<.10	<.10
JUN 15...	1	40	<1	310	<.1	2	<1.0	<1	14	--	--	--
JUL 31...	2	60	<1	200	<.1	2	1.3	<1	17	--	--	--

DATE	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (µg/L) (34556)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	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-NAPH-THALENE TOTAL (µg/L) (34581)
FEB 18...	E1	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2
MAY 07...	E.22	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2

DATE	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 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)
FEB 18...	<2	<3	<2	<3	<2	<2	E1	E.127	E.081	<.013	E.291	<2.2
MAY 07...	<2	<3	<2	<3	<2	<2	E1	E.088	E.050	<.013	E.223	<2.2

DATE	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)	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)
FEB 18...	<.10	<.10	<2	<.10	<.10	<40	E2	E2	E1	E2	E3	<3
MAY 07...	<.10	<.10	<2	<.10	<.10	<40	E1	E1	E1	E1	E1	<3

DATE	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)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)	CHRY-SENE TOTAL (µg/L) (34320)
FEB 18...	<2	<2	<10	<.20	<.20	.2	<.10	<.2	<.10	.02	E2
MAY 07...	<2	<2	<10	<.20	<.20	<.1	<.10	<.2	<.10	<.01	E1

E--Laboratory estimated value.

07010035 ENGELHOLM CREEK NEAR WELLSTON, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	CYCLOPENTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)
FEB											
18...	<.10	<2	<.02	E.01	<.10	<.2	.015	<2	<.2	<2	<3
MAY											
07...	<.10	<2	<.02	.06	<.10	<.2	<.009	<2	<.2	<2	<3

DATE	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)	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)	ETHION, TOTAL (µg/L) (39398)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FLUOR-ANTHENE TOTAL (µg/L) (34376)
FEB											
18...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	.11	4
MAY											
07...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	E2

DATE	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	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)
FEB											
18...	E.162	<.01	<.10	<.009	<.009	<2	<2.6	3	E.05	<.012	<.03
MAY											
07...	E.103	<.01	<.10	<.009	<.011	<2	<2.6	E1	E1	<.012	<.03

DATE	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	MIREX, TOTAL (µg/L) (39755)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	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)
FEB											
18...	<.01	<.01	<.2	<.2	<.01	.22	E.1	<4	<3	<2	<3
MAY											
07...	<.01	<.01	.8	E.1	<.01	<.20	E.1	<4	<3	<2	<3

DATE	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	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)	PCNS UNFILT RECOVER (µg/L) (39250)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PER-THANE TOTAL (µg/L) (39034)	PHENAN-THRENE TOTAL (µg/L) (34461)
FEB											
18...	.20	<.014	<.016	.026	<3	<.01	<.1	<.1	E2	<.1	E2
MAY											
07...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	E1	<.1	E1

DATE	PHENOL TOTAL (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TOX-APHENE, TOTAL (µg/L) (39400)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	TOTAL TRI-THION (µg/L) (39786)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
FEB											
18...	<3	<.02	3	<.10	<.1	.19	<1	<.10	<.20	<.01	<.2
MAY											
07...	<3	<.02	E2	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2

E--Laboratory estimated value.

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. Highway 67 (Lindbergh Blvd.), and 0.63 mi upstream of River Des Peres.

DRAINAGE AREA.--36.51 mi^2.

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.--Estimated daily discharges: Jan. 12 and 26-31. Records fair except for estimated daily discharges and those below 2 ft^3/s and above 1,100 ft^3/s, which are poor.

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	1.1	3.2	1.2	.85	1.7	2.8	1.2	1.0	1.6	8.8	15	1.4
2	1.0	7.0	1.2	.83	1.5	1.6	1.3	1.1	1.4	2.0	3.2	1.4
3	6.9	1.2	5.1	114	1.4	6.6	1.3	1.1	1.3	19	2.3	1.3
4	3.9	.85	2.7	5.4	1.3	3.3	1.3	1.0	16	1.5	1.8	1.7
5	1.3	.92	63	1.4	.99	1.6	1.4	1.7	11	.99	5.2	1.5
6	.98	1.1	5.8	1.0	.99	1.2	1.6	1.4	2.0	.99	3.3	1.6
7	.90	1.2	1.5	.94	.97	2.1	139	1490	1.5	.96	4.9	1.4
8	177	1.2	1.0	6.8	.97	1.2	7.6	27	1.4	1.3	278	1.3
9	89	1.6	103	2.5	.99	1.5	2.0	9.5	1.4	.97	12	1.1
10	3.9	1.3	111	1.2	1.1	2.1	1.3	3.1	1.4	.97	3.2	6.8
11	1.3	1.0	2.9	.98	1.1	10	1.2	1.4	71	3.4	1.9	2.1
12	1.1	.90	9.6	.99	1.0	9.5	1.1	4.8	18	2.0	1.6	89
13	.97	1.8	3.1	1.0	17	4.4	1.5	2.1	8.9	1.1	2.2	2.6
14	1.1	1.9	2.0	1.0	2.0	1.8	1.0	1.2	4.9	1.0	1.5	1.4
15	1.3	1.5	7.1	1.0	1.1	1.3	1.2	.97	2.5	.95	1.5	1.2
16	2.4	1.3	3.7	1.1	.95	1.2	7.2	.97	33	.90	1.5	1.2
17	5.2	2.0	.86	17	23	1.5	2.9	1.5	57	13	1.4	1.2
18	1.0	1.5	.87	6.2	604	7.1	1.2	1.3	11	2.5	135	1.1
19	.85	1.2	.84	1.4	11	23	1.3	1.6	3.0	2.9	3.8	1.1
20	.83	1.0	1.9	1.0	4.6	46	2.9	1.2	27	1.7	45	1.1
21	.86	.95	6.0	.98	2.7	5.5	1.3	.98	76	1.3	7.0	1.3
22	1.1	.90	3.1	1.0	1.9	2.6	1.9	16	2.6	1.0	2.5	4.0
23	1.1	9.8	.79	1.0	1.6	1.9	15	11	1.2	2.0	1.9	1.5
24	1.5	6.6	.84	.91	1.5	1.6	56	1.5	1980	1.3	80	18
25	1.3	1.1	1.0	.85	3.8	1.6	6.0	1.1	48	1.0	7.7	169
26	1.4	.84	.89	.84	26	47	1.7	165	296	.95	2.5	5.8
27	1.2	.83	.81	.83	8.3	48	10	288	15	1.2	18	1.4
28	1.0	.97	.84	.82	1.9	3.1	4.1	60	2.5	409	5.9	1.0
29	.97	1.0	.88	1.0	2.6	1.8	1.5	4.0	1.4	328	2.0	2.0
30	.99	1.1	.84	1.3	---	1.3	1.1	2.2	2.2	25	1.6	.96
31	.99	---	.83	2.0	---	1.2	---	1.8	---	191	1.5	---
MEAN	10.1	1.93	11.1	5.75	25.1	7.92	9.27	67.9	90.0	33.2	21.1	10.9
MAX	177	9.8	111	114	604	48	139	1490	1980	409	278	169
MIN	.83	.83	.79	.82	.95	1.2	1.0	.97	1.2	.90	1.4	.96
IN.	.32	.06	.35	.18	.74	.25	.28	2.15	2.75	1.05	.67	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	9.78	28.5	7.16	28.6	50.2	41.5	24.2	29.9	63.9	26.5	21.8	11.2
MAX	11.4	82.3	11.1	48.4	77.0	108	46.9	67.9	101	48.5	35.3	28.8
(WY)	1997	1997	2000	1999	1999	1998	1998	2000	1998	1998	1996	1996
MIN	8.23	1.93	2.09	5.75	25.1	7.92	9.27	15.4	29.8	2.23	5.05	2.15
(WY)	1998	2000	1999	2000	2000	2000	2000	1999	1999	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL MEAN	22.2		24.5		27.8	
HIGHEST ANNUAL MEAN					36.5	1998
LOWEST ANNUAL MEAN					22.8	1999
HIGHEST DAILY MEAN	1660	Feb 7	1980	Jun 24	1980	Jun 24 2000
LOWEST DAILY MEAN	.58	Sep 8	.79	Dec 23	.24	Oct 20 1996
ANNUAL SEVEN-DAY MINIMUM	.71	Sep 2	.84	Dec 27	.30	Oct 1 1996
INSTANTANEOUS PEAK FLOW[a]	---		6550	Jun 24	6550	Jun 24 2000
INSTANTANEOUS PEAK STAGE	---		16.41	Jun 24	16.41	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.79	Nov 26,27,Dec 22-25	.09	Oct 20,21 1996
ANNUAL RUNOFF (INCHES)	8.28		9.13		10.33	
10 PERCENT EXCEEDS	38		24		47	
50 PERCENT EXCEEDS	1.7		1.5		1.9	
90 PERCENT EXCEEDS	.82		.97		.71	

[a]From rating extended above 1,053 ft^3/s.

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. Highway 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.--Estimated daily discharges: Dec. 30 to Jan. 2, Jan. 12, Feb. 21-24, 28-29, March 2, May 7-23, and June 9-10. Records fair except for estimated daily discharges and discharges above 200 ft^3/s and below 1 ft^3/s, which are poor.

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	.14	3.1	.29	.28	.52	.38	.57	.13	.44	1.1	3.4	.44
2	.33	.34	.58	.33	.60	.30	.56	.70	.38	.70	1.6	.43
3	1.8	.11	1.4	13	.50	.62	.56	.12	.25	.48	1.3	.38
4	.49	.25	1.6	.84	.37	.35	.50	.11	1.1	.38	.98	.38
5	.16	.11	7.1	.58	.31	.33	.44	.25	.62	.44	.75	.38
6	.13	.11	.71	.50	.25	.33	.47	.15	.29	.32	.67	.38
7	.13	.12	.43	.41	.25	.30	7.8	200	.27	.30	1.8	.35
8	33	.13	.38	1.9	.24	.29	.78	3.0	.22	.25	49	.34
9	11	.13	14	.60	.22	.29	.71	1.5	.21	.25	1.5	.34
10	.60	.15	8.1	.52	.36	.29	.54	.70	.20	.27	1.0	1.8
11	.36	.14	.84	.62	.27	1.3	1.2	.50	9.8	1.9	.71	.46
12	.31	.15	2.1	.40	.25	.46	.45	1.4	4.6	4.9	.62	11
13	.30	.17	.64	.33	4.4	.29	.44	.90	.54	.88	.57	.53
14	.25	.19	.58	.33	.52	.29	.43	.40	1.9	.35	.50	.39
15	.25	.18	.47	.56	.34	.26	.34	.30	.40	.25	.44	.30
16	.37	.19	.48	.32	.27	.25	.94	.40	8.1	1.7	.42	.27
17	2.4	.19	.46	2.7	3.8	.23	.32	.60	6.0	2.3	7.3	.24
18	.21	.20	.44	.77	66	.91	.23	.40	.71	3.7	2.7	.22
19	.18	.22	.44	.41	.59	1.4	.42	.50	.49	1.1	.69	.22
20	.18	.22	.39	.38	.40	3.5	.43	.40	11	.31	6.3	.22
21	.15	.24	.38	.38	.36	.52	.18	.30	4.7	.26	.89	.20
22	.15	.29	.38	.40	.35	.69	.16	1.1	.85	.24	.66	.19
23	.16	1.0	.38	.40	.32	.64	2.0	.60	.88	.22	.61	.19
24	.18	.27	.62	.35	.30	.62	5.4	.38	209	.20	6.9	3.9
25	.13	.25	.33	.33	.96	.51	.40	.33	3.1	.18	.87	13
26	.14	.23	.32	.33	2.6	6.3	.24	9.9	12	.19	.69	.50
27	.13	.22	.62	.30	.49	1.8	4.2	21	1.7	.39	1.2	.25
28	.12	.28	.35	.30	.30	.92	.40	1.7	.97	38	.65	.18
29	.11	.25	.33	.32	.35	.75	.22	.68	.74	23	.53	.15
30	.11	.26	.30	1.3	---	.65	.15	.58	1.1	1.6	.50	.14
31	.10	---	.29	2.2	---	.59	---	.49	---	92	.49	---
MEAN	1.74	.32	1.48	1.04	2.98	.85	1.05	8.05	9.42	5.75	3.10	1.26
MAX	33	3.1	14	13	66	6.3	7.8	200	209	92	49	13
MIN	.10	.11	.29	.28	.22	.23	.15	.11	.20	.18	.42	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	1.64	1.56	1.27	3.15	5.01	4.98	3.32	4.17	7.16	5.12	3.50	1.10
MAX	1.83	2.23	1.89	4.97	8.01	11.4	5.68	8.05	13.2	10.1	7.16	1.38
(WY)	1998	1999	1998	1999	1999	1998	1998	2000	1998	1998	1998	1997
MIN	1.36	.32	.43	1.04	2.98	.85	1.05	1.29	2.56	1.72	.54	.52
(WY)	1999	2000	1999	2000	2000	2000	2000	1999	1999	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	2.48		3.09		3.69	
HIGHEST ANNUAL MEAN					5.46	1998
LOWEST ANNUAL MEAN					2.52	1999
HIGHEST DAILY MEAN	143	Feb 7	209	Jun 24	209	Jun 24 2000
LOWEST DAILY MEAN	.10	Oct 31	.10	Oct 31	.10	Oct 31 1999
ANNUAL SEVEN-DAY MINIMUM	.12	Oct 25	.12	Oct 25	.12	Oct 25 1999
INSTANTANEOUS PEAK FLOW[a]	---		2140	Jul 31	3260	Jun 11 1998
INSTANTANEOUS PEAK STAGE	---		9.65	Jul 31	10.80	Jun 11 1998
INSTANTANEOUS LOW FLOW	---		.09	Several Days	.09	Several Days 2000
10 PERCENT EXCEEDS	4.3		3.6		5.8	
50 PERCENT EXCEEDS	.60		.41		.69	
90 PERCENT EXCEEDS	.16		.18		.24	

[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.--Estimated daily discharges: Oct. 8-31, Nov. 6, 8, 10, 12, 14-16, 18, 20, 26-29, Jan. 21-29, March 8, 9, May 6, 8, 9, July 26, Sept. 7, 8, 18, and 19. Water-discharge records fair except for estimated daily discharges and those below 1.5 ft^3/s and above 1,200 ft^3/s, which are poor.

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	1.5	2.8	1.2	1.7	2.4	3.8	1.3	1.1	1.3	13	19	2.4
2	1.5	8.1	1.3	2.4	2.2	1.8	1.4	12	1.3	7.9	6.5	2.4
3	1.8	2.2	11	90	1.7	6.9	1.2	1.5	1.2	7.4	4.1	1.9
4	5.6	1.4	12	7.9	2.3	3.2	1.2	1.1	1.3	4.8	3.1	1.8
5	1.6	1.4	53	2.6	1.2	1.3	1.1	1.1	4.2	3.8	2.8	1.7
6	1.5	1.1	6.7	1.8	1.1	1.1	1.1	1.0	1.2	2.9	2.4	1.6
7	1.5	1.3	1.8	1.7	1.1	1.1	44	850	1.1	2.5	12	1.5
8	200	1.2	1.3	10	1.1	1.0	3.9	22	1.0	2.1	457	1.3
9	100	1.4	86	5.5	1.0	1.0	1.5	14	1.0	2.5	14	2.0
10	10	1.2	82	2.4	1.1	1.1	1.1	7.9	1.1	2.3	6.3	11
11	2.0	1.3	5.2	1.7	1.6	15	1.3	3.5	64	2.1	4.6	4.4
12	1.6	1.2	14	1.6	1.0	6.9	1.2	2.5	52	64	4.1	65
13	1.4	1.4	3.7	1.6	36	4.8	1.1	4.0	7.2	22	3.1	3.0
14	1.7	1.2	4.7	1.7	5.1	1.5	1.1	1.4	11	3.9	2.7	1.7
15	2.0	1.1	2.1	1.6	1.3	1.2	1.3	1.3	2.5	2.5	2.5	1.6
16	3.0	1.2	2.7	1.6	.87	1.1	7.7	1.3	61	2.1	2.7	1.4
17	6.0	1.3	2.4	13	24	1.0	4.7	1.2	79	27	83	1.4
18	2.0	1.2	2.6	9.2	392	10	1.1	1.1	8.0	14	82	1.3
19	1.8	1.3	2.7	2.5	12	23	1.1	3.0	3.1	22	5.5	1.2
20	1.5	1.2	2.2	1.6	5.1	46	3.0	1.1	42	2.3	50	1.4
21	1.3	3.6	2.1	1.2	3.0	6.3	1.2	1.1	97	1.6	6.8	1.3
22	1.7	3.2	2.1	1.4	2.3	3.3	1.1	9.3	5.2	1.4	4.6	1.4
23	1.8	7.6	1.9	1.3	1.6	2.4	2.5	17	2.6	1.4	3.5	1.5
24	2.0	5.1	1.3	1.2	1.5	4.2	58	1.2	1110	1.3	40	22
25	1.8	1.3	1.6	1.2	3.1	3.0	5.6	1.1	30	1.1	6.3	112
26	2.0	1.2	1.5	1.1	29	32	1.5	71	130	1.0	4.0	8.0
27	1.7	1.2	1.4	1.0	11	31	34	215	16	1.1	3.7	4.2
28	1.5	1.1	1.4	1.1	2.3	3.4	5.1	42	10	95	3.1	2.0
29	1.4	1.2	1.5	1.2	2.6	1.8	1.3	4.6	7.9	205	2.9	1.4
30	1.5	1.2	1.4	1.3	---	1.4	1.1	2.3	6.9	18	2.7	1.4
31	1.2	---	1.4	1.4	---	1.3	---	1.7	---	312	2.7	---
MEAN	11.8	2.04	10.2	5.66	19.0	7.19	6.43	41.9	58.7	27.4	27.3	8.84
MAX	200	8.1	86	90	392	46	58	850	1110	312	457	112
MIN	1.2	1.1	1.2	1.0	.87	1.0	1.1	1.0	1.0	1.0	2.4	1.2
IN.	.75	.13	.65	.36	1.13	.46	.40	2.67	3.62	1.75	1.74	.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	9.42	18.6	7.80	27.5	32.8	29.3	18.4	21.5	42.1	24.7	16.6	10.4
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	4.67	5.66	19.0	7.19	6.43	8.31	17.1	7.39	5.54	2.56
(WY)	1998	2000	1999	2000	2000	2000	2000	1999	1999	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL MEAN	17.9		18.9		21.2	
HIGHEST ANNUAL MEAN					27.4	1998
LOWEST ANNUAL MEAN					18.5	1999
HIGHEST DAILY MEAN	915	Feb 7	1110	Jun 24	1110	Jun 24 2000
LOWEST DAILY MEAN	.45	Sep 26,27	.87	Feb 16	.45	Sep 26,27 1999
ANNUAL SEVEN-DAY MINIMUM	.65	Sep 5	1.1	Feb 6	.65	Sep 5 1999
INSTANTANEOUS PEAK FLOW[a]	---		4020	Jun 24	4020	Jun 24 2000
INSTANTANEOUS PEAK STAGE	---		15.67	Jun 24	15.67	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.86	Feb 16,17	.67	Sep 14,15 1996
ANNUAL RUNOFF (INCHES)	13.46		14.19		15.95	
10 PERCENT EXCEEDS	32		31		40	
50 PERCENT EXCEEDS	3.7		2.1		4.4	
90 PERCENT EXCEEDS	1.1		1.1		1.2	

[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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
DEC												
09...	1348	117	8.1	69	7.3	184	8.4	7800	10000	3400	54	55
JAN												
05...	1100	2.4	11.2	81	7.3	385	2.8	500	450	4200	88	85
FEB												
28...	1250	2.1	9.8	87	7.8	711	10.8	2000	5600	K180	119	121
MAY												
26...	1244	151	6.2	67	7.5	523	18.6	K7900	K34000	110000	110	109
JUN												
19...	1145	2.4	5.8	64	7.9	720	20.8	4200	4400	1500	142	144
AUG												
23...	1130	3.8	4.7	57	7.5	718	25.5	2200	K2600	K720	165	168

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	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, ORGANIC TOTAL (mg/L as N) (00605)	NITRO-GEN, TOTAL (mg/L as N) (00600)	NITRO-GEN, AMMONIA TOTAL (mg/L as NH_4) (71845)
DEC												
09...	67	0	74	23.0	4.00	--	1.1	.11	.2	.99	1.4	.14
JAN												
05...	103	0	130	40.0	7.00	80.0	.71	.19	.9	.52	1.7	.24
FEB												
28...	145	0	170	52.0	8.70	160	.40	.04	.7	.36	1.1	.05
MAY												
26...	133	0	140	45.0	7.90	--	1.2	.25	.5	.95	1.7	.32
JUN												
19...	176	0	180	57.0	8.50	--	.43	.10	.8	.33	1.2	.13
AUG												
23...	205	0	220	70.0	11.0	--	.48	.07	.7	.41	1.2	.09

DATE	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, TOTAL (mg/L as NO_3) (71887)	PHOS-PHATE, TOTAL (mg/L as PO_4) (00650)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	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)
DEC												
09...	<.01	6.0	--	E.300	.360	4.7	320	286	<1.0	<1	<1.0	1.4
JAN												
05...	<.01	7.3	--	E.140	.190	8.9	17	177	1.5	<1	<1.0	1.4
FEB												
28...	<.01	5.0	.337	.110	.130	3.7	19	241	1.8	<1	<1.0	2.0
MAY												
26...	<.01	7.6	--	E.200	.290	6.6	210	56	1.7	<1	<1.0	1.1
JUN												
19...	<.01	5.5	--	E.140	.180	3.3	21	69	2.1	<1	<1.0	<1.0
AUG												
23...	<.01	5.2	--	E.100	.120	11	13	32	1.7	<1	<1.0	<1.0

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07010180 GRAVOIS CREEK NEAR MEHLVILLE, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	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)	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)	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)
DEC 09...	2	330	1	120	<.1	2	<1.0	<1	27	<.10	<.10	<.10
JAN 05...	3	180	1	90	<.1	2	<1.0	<1	150	--	--	--
FEB 28...	4	170	1	88	<.1	2	<1.0	<1	62	--	--	--
MAY 26...	3	70	<1	180	<.1	2	<1.0	<1	75	<.10	<.10	<.10
JUN 19...	2	90	<1	160	<.1	2	1.2	<1	75	--	--	--
AUG 23...	2	40	<1	120	<.1	2	<1.0	<1	99	--	--	--

DATE	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (µg/L) (34556)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	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-NAPH-THALENE TOTAL (µg/L) (34581)
DEC 09...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2
MAY 26...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2

DATE	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 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)
DEC 09...	<2	<3	<2	<3	<2	<2	<3	<2	<2	<.013	<1	<2.2
MAY 26...	<2	<3	<2	<3	<2	<2	E1	<2	E1	<.013	<1	<2.2

DATE	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)	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)
DEC 09...	<.10	<.10	<2	<.10	<.10	<40	E1	E1	<2	E1	E1	<3
MAY 26...	<.10	<.10	<2	<.10	<.10	<40	E1	E1	<2	E1	E1	<3

DATE	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)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)	CHRY-SENE TOTAL (µg/L) (34320)
DEC 09...	<2	<2	<10	<.20	<.20	<.1	<.10	<.2	<.10	<.01	E1
MAY 26...	<2	<2	<10	<.20	<.20	<.1	<.10	<.2	<.10	E.01	E1

E--Laboratory estimated value.

07010180 GRAVOIS CREEK NEAR MEHLVILLE, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	CYCLOPENTADIENE HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHALATE TOTAL (µg/L) (34336)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DI-METHYL PHTHALATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHALATE TOTAL (µg/L) (39110)
DEC 09...	<.10	<2	<.02	E.02	<.10	<.2	<.009	<2	<.2	<2	<3
MAY 26...	<.10	<2	<.02	.12	<.10	<.2	<.009	<2	<.2	<2	<3

DATE	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)	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)	ETHION, TOTAL (µg/L) (39398)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FLUORANTHENE TOTAL (µg/L) (34376)
DEC 09...	<5	<.12	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	E2
MAY 26...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	E1

DATE	FLUORENE TOTAL (µg/L) (34381)	FONOFOS (DYFONATE) WATER WHOLE TOT.REC (µg/L) (82614)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEPTACHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTACHLOR, TOTAL (µg/L) (39410)	HEXACHLOROBENZENE TOTAL (µg/L) (39700)	HEXACHLOROBUTADIENE TOTAL (µg/L) (39702)	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)
DEC 09...	<2	<.01	<.10	<.009	<.011	<2	<2.6	E1	<2	<.012	<.03
MAY 26...	<2	<.01	<.10	<.009	<.011	<2	<2.6	E1	<2	.015	E.03

DATE	METHOXYCHLOR, TOTAL (µg/L) (39480)	METHYL PARATHION, TOTAL (µg/L) (39600)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYLENE CHLORIDE TOTAL (µg/L) (34423)	MIREX, TOTAL (µg/L) (39755)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTHALENE TOTAL (µg/L) (34696)	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)
DEC 09...	<.01	<.01	<.2	<.2	<.01	<.20	E.1	<4	<3	<2	<3
MAY 26...	<.01	<.01	.3	<.2	<.01	<.20	<2.1	<4	<3	<2	<3

DATE	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARACHLORO-META CRESOL TOTAL (µg/L) (34452)	PARATHION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PCNS UNFILT RECOVER (µg/L) (39250)	PENTACHLOROPHENOL TOTAL (µg/L) (39032)	PERTHANE TOTAL (µg/L) (39034)	PHENANTHRENE TOTAL (µg/L) (34461)
DEC 09...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	<4	<.1	E1
MAY 26...	<.10	<.014	<.016	<.017	<3	<.01	<.1	--	<4	--	E1

DATE	PHENOL TOTAL (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	STYRENE TOTAL (µg/L) (77128)	TETRACHLOROETHYLENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TOXAPHENE, TOTAL (µg/L) (39400)	TRICHLOROETHYLENE TOTAL (µg/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (µg/L) (34488)	TOTAL TRITHION (µg/L) (39786)	VINYL CHLORIDE TOTAL (µg/L) (39175)
DEC 09...	<3	<.02	E2	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2
MAY 26...	<3	<.02	E1	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2

E--Laboratory estimated value.

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.--No estimated daily discharges. Records fair except those below 1 ft^3/s and above 420 ft^3/s, which are poor.

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	.18	5.5	.56	.37	.98	1.5	.66	.58	.75	.89	1.5	.71
2	.20	2.7	.64	.38	.69	.69	.66	1.4	.73	7.2	.82	.64
3	1.9	.61	3.2	18	.70	1.1	.64	.58	.72	1.0	.75	.65
4	.83	.43	4.6	2.0	.73	.69	.67	.52	.81	.76	.72	.63
5	.37	.41	9.8	.60	.56	.64	.71	.52	.84	.72	.72	.63
6	.35	.38	1.6	.46	.56	.62	.72	.54	.69	.71	.70	.57
7	.30	.40	.48	.42	.56	.61	1.2	103	.65	.73	10	.53
8	27	.37	.41	2.3	.53	.62	.57	2.2	.66	.74	54	.49
9	2.7	.35	18	1.0	.55	.65	.56	1.4	.68	.76	2.9	.55
10	.66	.37	12	.53	.76	.67	.58	.95	.69	.79	1.3	4.1
11	.38	.39	1.5	.46	.57	3.0	.64	.82	3.1	.86	.93	.65
12	.31	.36	3.3	.45	.52	1.2	.57	.94	16	45	.83	12
13	.35	.36	1.0	.41	5.7	.76	.58	1.1	1.1	4.8	.70	.67
14	.37	.37	.68	.38	1.3	.64	.58	1.2	1.8	.87	.74	.63
15	.31	.39	.62	.42	.54	.63	.58	1.1	.78	.76	.79	.59
16	.51	.40	.56	.43	.53	.63	4.1	.70	38	.74	.74	.59
17	1.4	.31	.51	2.0	4.3	.60	.85	.68	25	7.8	17	.59
18	.32	.34	.48	1.1	37	2.1	.48	.68	1.5	4.8	11	.59
19	.31	.39	.49	.46	1.3	2.1	.49	.71	1.1	2.4	.85	.57
20	.30	.38	.41	.50	.87	9.1	.56	.75	14	.73	9.5	.70
21	.25	.36	.41	.53	1.1	1.0	.69	.74	11	.69	.97	.63
22	.26	.35	.38	.59	.66	.72	1.4	2.4	1.3	.68	.79	.87
23	.33	2.3	.37	.54	.64	.67	.65	.96	1.1	.66	.79	.55
24	.35	.88	.40	.47	.68	.66	11	.62	126	.67	7.4	3.1
25	.32	.48	.41	.47	2.0	.64	.91	.57	5.9	.66	.90	31
26	.29	.50	.39	.47	6.9	13	.60	11	32	.70	.77	.95
27	.27	.49	.40	.53	1.2	4.1	5.3	40	2.0	.71	.76	.64
28	.27	.47	.40	.68	.77	.95	.88	2.1	1.3	6.5	.74	.57
29	.27	.49	.38	.89	2.6	.73	.61	.97	1.0	8.9	.72	.55
30	.28	.52	.38	1.0	---	.69	.60	.82	.93	1.3	.77	.53
31	.31	---	.36	1.3	---	.66	---	.78	---	25	.77	---
MEAN	1.36	.73	2.10	1.29	2.61	1.69	1.30	5.85	9.74	4.18	4.25	2.22
MAX	27	5.5	18	18	37	13	11	103	126	45	54	31
MIN	.18	.31	.36	.37	.52	.60	.48	.52	.65	.66	.70	.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	1.28	1.51	1.22	2.75	3.65	4.35	3.23	4.44	5.69	3.09	2.69	1.15
MAX	1.36	2.47	2.10	4.53	5.65	8.47	5.54	6.02	9.74	6.53	4.25	2.22
(WY)	2000	1999	2000	1999	1999	1998	1998	1998	2000	1998	2000	2000
MIN	1.21	.74	.38	1.29	2.61	1.69	1.30	1.44	2.10	.71	1.52	.49
(WY)	1998	2000	1999	2000	2000	2000	2000	1999	1999	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	2.20		3.11		3.09	
HIGHEST ANNUAL MEAN					3.97	1998
LOWEST ANNUAL MEAN					2.19	1999
HIGHEST DAILY MEAN	85	Feb 7	126	Jun 24	126	Jun 24 2000
LOWEST DAILY MEAN	.17	Sep 23,25	.18	Oct 1	.17	Sep 23 1999
ANNUAL SEVEN-DAY MINIMUM	.22	Sep 21	.29	Oct 25	.20	Dec 23 1998
INSTANTANEOUS PEAK FLOW[a]	---		1180	Jun 24	1180	Jun 24 2000
INSTANTANEOUS PEAK STAGE	---		12.79	Jun 24	12.79	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.13	Oct 1,2	.13	Oct 1 1999
10 PERCENT EXCEEDS	4.5		5.6		5.7	
50 PERCENT EXCEEDS	.71		.69		.70	
90 PERCENT EXCEEDS	.28		.38		.33	

[a]From rating extended above 419 ft^3/s.

07010500 MARAMEC SPRING NEAR ST. JAMES, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°57'20", long 91°31'57", NW 1/4 SE 1/4 sec.1, T.37 N., R.6 W., Phelps County, Hydrologic Unit 07140102. Site is at Maramec Spring Park, about 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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV 16...	1135	92	8.2	79	7.4	352	13.9	K3	K1	<1	177
JAN 12...	0955	102	8.4	81	7.2	334	13.4	K4	K7	K8	163
MAR 14...	1225	114	8.7	83	7.3	336	13.7	K9	K7	K5	157
MAY 17...	1320	95	8.4	81	7.5	346	14.1	K5	K10	230	166
JUL 05...	1330	79	10.1	99	7.5	354	14.6	23	K19	39	171
SEP 14...	0905	75	7.5	74	7.5	360	14.1	K10	K12	20	175

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV 16...	178	218	0	170	35.7	20.6	1.3	5.0	7.6	<.1	5.2
JAN 12...	164	201	0	--	--	--	--	--	--	--	--
MAR 14...	162	198	0	--	--	--	--	--	--	--	--
MAY 17...	170	208	0	180	36.5	20.6	.6	6.1	7.3	<.1	5.0
JUL 05...	172	210	0	--	--	--	--	--	--	--	--
SEP 14...	176	215	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV 16...	<.020	.11	.753	<.010	<.050	.015	.052	<10	<1	196	<15
JAN 12...	.029	E.10	.807	<.010	<.050	.021	<.050	--	--	--	--
MAR 14...	<.020	<.10	.791	<.010	E.030	.018	E.032	--	--	--	--
MAY 17...	.020	E.10	.637	<.010	E.031	.020	E.039	<10	<10	192	E10
JUL 05...	<.020	E.10	.575	.026	<.050	<.010	<.050	--	--	--	--
SEP 14...	.022	.11	.736	<.010	E.035	.025	E.037	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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 16...	<28	<8.0	<.1	<10	E10	<100	<1	<2	<.3	E13	<31
MAY 17...	41	<8.0	<.1	<10	E10	<100	<1	2	<.3	41	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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; May 24, 1934, to Oct. 10, 1942, water-stage recorder at site 400 ft downstream at present datum; July 21, 1967, to Feb. 13, 1973, at site 1,900 ft downstream and at datum 1.8 ft lower.

REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 1. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	155	152	164	165	330	319	159	130	138	127	106
2	153	160	152	165	161	296	297	160	126	134	121	103
3	154	160	157	176	164	288	280	174	122	138	116	100
4	155	160	169	183	163	286	256	191	126	143	119	97
5	155	160	230	232	163	285	239	186	151	146	220	94
6	155	159	284	240	165	267	228	175	148	141	143	93
7	157	160	222	219	166	251	218	173	135	133	128	92
8	177	158	201	212	165	241	213	169	128	125	117	92
9	172	158	226	209	165	226	209	169	122	124	114	92
10	177	158	635	209	165	215	203	159	119	128	110	92
11	171	157	673	207	164	224	196	153	120	124	106	92
12	166	155	466	199	162	219	189	148	124	144	103	103
13	165	155	371	193	164	235	185	142	121	207	101	100
14	161	155	331	185	163	278	182	136	122	170	99	107
15	162	155	300	183	161	310	177	134	120	143	97	103
16	162	156	268	180	158	294	188	134	136	132	97	97
17	161	155	246	178	165	269	189	134	169	148	96	95
18	160	155	227	177	228	256	188	135	193	148	98	93
19	161	155	216	175	408	289	190	132	210	175	96	92
20	161	153	207	172	380	460	188	130	178	147	119	91
21	161	152	196	169	339	429	182	130	217	138	125	90
22	164	152	190	172	297	372	183	130	267	131	144	90
23	161	157	184	169	272	334	177	130	230	128	120	93
24	160	156	179	166	252	310	176	131	201	125	129	98
25	159	167	175	165	241	286	171	129	183	119	218	112
26	158	167	173	163	325	276	169	136	163	114	184	109
27	159	159	172	160	350	362	169	185	153	112	151	122
28	160	155	170	161	386	490	168	202	144	111	132	120
29	158	152	169	167	363	440	164	180	139	117	120	114
30	159	152	168	167	---	388	160	152	138	119	115	111
31	157	---	165	166	---	348	---	138	---	122	110	---
MEAN	161	157	248	183	228	308	202	153	154	136	125	99.8
MAX	177	167	673	240	408	490	319	202	267	207	220	122
MIN	152	152	152	160	158	215	160	129	119	111	96	90
IN.	.24	.22	.37	.27	.32	.46	.29	.23	.22	.20	.18	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2000, BY WATER YEAR (WY)

MEAN	286	502	574	574	660	885	1092	967	731	384	268	281
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1923 - 2000	
ANNUAL MEAN	565		180		599	
HIGHEST ANNUAL MEAN					1473	1985
LOWEST ANNUAL MEAN					177	1954
HIGHEST DAILY MEAN	13000	Feb 8	673	Dec 11	44600	Jul 27 1998
LOWEST DAILY MEAN	148	Sep 17,18	90	Sep 21,22	76	Jul 22 1934
ANNUAL SEVEN-DAY MINIMUM	149	Sep 14	92	Sep 17	78	Oct 5 1956
INSTANTANEOUS PEAK FLOW	---		1070	Dec 10	55800	Jul 27 1998
INSTANTANEOUS PEAK STAGE	---		3.43	Dec 10	27.22	Jul 27 1998
INSTANTANEOUS LOW FLOW	---		89	Sep 9,21,22	74	Jul 22 1934
ANNUAL RUNOFF (INCHES)	9.82		3.13		10.43	
10 PERCENT EXCEEDS	1130		281		1100	
50 PERCENT EXCEEDS	258		161		268	
90 PERCENT EXCEEDS	155		111		131	

07014000 HUZZAH CREEK NEAR STEELVILLE, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°58'29", long 91°12'16", in SE $^1/_4$ SW $^1/_4$ sec.25, T.38 N., R.3 W., Crawford County, Hydrologic Unit 07140102.
From Steelville take Highway 8 east for about 9 mi.

DRAINAGE AREA.--259 mi^2.

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
15...	1205	56	7.9	75	7.8	389	12.7	K3	K8	K10	210
JAN											
11...	0935	92	13.6	110	7.8	382	6.4	37	K41	K19	194
MAR											
14...	1045	100	10.8	94	7.4	377	9.8	K4	K8	K6	180
MAY											
17...	1130	47	8.5	93	8.1	397	19.9	K1	44	160	202
JUL											
06...	1210	76	8.7	108	7.8	391	26.6	43	46	44	197
SEP											
07...	1100	29	9.1	107	8.0	390	22.7	K5	K70	46	194

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
15...	212	258	0	200	39.9	25.2	.8	3.6	3.2	.1	11.1
JAN											
11...	196	239	0	--	--	--	--	--	--	--	--
MAR											
14...	188	229	0	--	--	--	--	--	--	--	--
MAY											
17...	204	249	0	210	42.4	25.8	.5	4.1	3.2	<.1	9.1
JUL											
06...	202	246	0	210	40.6	26.1	.8	4.0	5.4	.2	12.4
SEP											
07...	198	242	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

07014000 HUZZAH CREEK NEAR STEELVILLE, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
NOV											
15...	<.020	.15	.105	<.010	<.050	<.010	<.050	<10	<1	223	<15
JAN											
11...	<.020	E.10	.171	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
14...	<.020	E.10	.206	<.010	<.050	<.010	<.050	--	--	--	--
MAY											
17...	<.020	.10	.149	<.010	<.050	<.010	<.050	<10	<10	220	<45
JUL											
06...	<.020	.11	.139	<.010	<.050	<.010	<.050	19	<10	232	<15
SEP											
07...	<.020	E.10	.083	<.010	<.050	<.010	<.050	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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...	<28	<8.0	<.1	<10	<10	<100	<1	2	<.3	29	<31
MAY											
17...	31	<24.0	<.1	<30	<30	<300	<1	E5	<.3	<60	<31
JUL											
06...	29	<8.0	<.1	<10	E10	<100	<1	6	<.3	E16	<31

E--Laboratory estimated value.

07014200 COURTOIS CREEK AT BERRYMAN, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°55'05", long 91°06'04", in SW $^1/_4$ NE $^1/_4$ sec.13, T.37 N., R.1 W., Crawford County, Hydrologic Unit 07140102. Take Highway 8 until you cross Courtois Creek, about 13 mi east of Steelville.

DRAINAGE AREA.--173 mi^2.

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
15...	1005	30	10.1	93	7.8	430	11.6	K8	K11	K14	200
JAN											
11...	1045	57	13.0	106	7.7	449	7.0	K11	K16	K10	178
MAR											
14...	0915	68	12.0	102	7.7	381	8.5	K3	K6	K11	180
MAY											
17...	1000	27	8.8	94	7.9	418	19.0	K1	27	200	199
JUL											
06...	1030	25	7.3	87	7.7	421	24.3	60	K90	34	202
SEP											
07...	0945	12	6.8	79	7.7	444	22.5	K8	32	40	204

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
15...	203	247	0	230	44.7	28.3	.9	3.4	5.0	.3	34.6
JAN											
11...	181	221	0	--	--	--	--	--	--	--	--
MAR											
14...	185	226	0	--	--	--	--	--	--	--	--
MAY											
17...	201	246	0	220	43.5	26.4	.7	3.0	3.5	<.1	21.7
JUL											
06...	203	247	0	--	--	--	--	--	--	--	--
SEP											
07...	206	251	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

07014200 COURTOIS CREEK AT BERRYMAN, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
NOV											
15...	<.020	<.10	<.050	<.010	<.050	<.010	<.050	<10	<1	269	E11
JAN											
11...	<.020	<.10	.092	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
14...	<.020	E.10	.083	<.010	<.050	<.010	<.050	--	--	--	--
MAY											
17...	<.020	E.10	.088	<.010	<.050	<.010	<.050	<10	<10	234	<15
JUL											
06...	<.020	E.10	.119	<.010	<.050	<.010	<.050	--	--	--	--
SEP											
07...	<.020	E.10	.078	<.010	<.050	<.010	<.050	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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...	<28	<8.0	<.1	<10	<10	<100	<1	E2	<.3	E18	<31
MAY											
17...	<28	<8.0	<.1	<10	<10	<100	<1	6	<.3	E15	<31

E--Laboratory estimated value.

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.--Estimated daily discharges: Oct. 30-31. Water-discharge records good. 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.

REVISIONS.--The peak stage for period of record was published incorrectly as 32.0 ft on June 9, 1945, in reports 1988 to 1995.

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	252	319	303	350	348	949	712	346	312	298	247	189
2	252	327	303	347	339	840	659	343	287	288	244	179
3	255	313	328	404	338	776	610	352	270	281	242	173
4	262	316	375	512	339	739	571	358	263	282	227	168
5	264	323	457	674	338	716	544	370	278	298	262	165
6	267	323	545	693	339	679	505	369	291	305	318	159
7	267	321	582	634	338	634	488	369	274	285	262	157
8	330	322	487	576	338	588	474	363	259	262	239	156
9	352	319	527	557	338	555	461	353	247	249	221	155
10	339	317	1010	541	341	513	445	345	237	239	209	156
11	342	312	2110	517	339	520	431	337	234	228	197	156
12	327	308	1590	494	337	528	416	321	237	228	188	174
13	314	308	1230	472	342	520	406	306	259	254	186	174
14	299	308	1090	448	345	582	398	292	245	288	181	170
15	292	302	948	438	336	670	389	288	260	269	175	174
16	298	303	812	432	328	693	402	284	274	258	168	172
17	302	304	707	410	339	647	415	280	416	267	166	164
18	302	302	629	403	499	602	408	276	503	290	163	160
19	306	302	565	393	759	637	408	277	499	273	163	156
20	306	302	532	388	1040	763	403	274	453	289	194	153
21	302	302	487	372	952	979	390	274	557	267	215	152
22	305	303	450	373	833	910	379	270	584	252	218	149
23	302	336	428	372	735	831	375	268	598	245	229	151
24	302	355	409	363	672	770	397	300	497	236	234	167
25	302	350	392	357	630	707	394	288	446	226	238	187
26	302	368	381	349	663	668	376	304	404	215	316	197
27	303	360	370	340	832	815	366	1450	371	209	289	204
28	306	343	365	338	1000	1100	364	742	337	207	259	217
29	307	322	365	345	1050	977	356	518	313	226	231	210
30	306	306	365	349	---	882	350	420	299	227	214	197
31	308	---	359	349	---	787	---	354	---	231	200	---
MEAN	299	320	629	438	532	728	443	377	350	257	222	171
MAX	352	368	2110	693	1050	1100	712	1450	598	305	318	217
MIN	252	302	303	338	328	513	350	268	234	207	163	149
IN.	.23	.24	.49	.34	.39	.57	.34	.29	.26	.20	.17	.13

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

MEAN	597	1062	1237	1241	1454	1944	2405	1979	1339	768	545	544
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	1221		397		1257	
HIGHEST ANNUAL MEAN					3014	1985
LOWEST ANNUAL MEAN					341	1954
HIGHEST DAILY MEAN	19900	Feb 8	2110	Dec 11	70600	Jun 9 1945
LOWEST DAILY MEAN	251	Sep 28	149	Sep 22	131	Sep 20 1956
ANNUAL SEVEN-DAY MINIMUM	254	Sep 26	155	Sep 17	133	Sep 16 1956
INSTANTANEOUS PEAK FLOW	---		2950	May 27	77300	Jun 9 1945
INSTANTANEOUS PEAK STAGE	---		5.87	May 27	32.22	Dec 4 1982
INSTANTANEOUS LOW FLOW	---		140	Sep 22	131	Sep 20 1956
ANNUAL RUNOFF (INCHES)	11.24		3.67		11.58	
10 PERCENT EXCEEDS	2620		693		2420	
50 PERCENT EXCEEDS	622		336		610	
90 PERCENT EXCEEDS	278		197		273	

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
OCT											
06...	0940	267	9.0	86	8.2	362	13.6	20	K17	K13	183
NOV											
16...	0925	302	9.7	86	7.8	369	10.3	K3	K13	K3	182
DEC											
08...	1030	494	11.8	98	8.1	367	7.6	20	K18	20	194
JAN											
11...	1340	517	12.5	103	7.9	359	7.2	K1	K1	K7	176
FEB											
08...	1000	338	12.8	97	8.1	368	4.3	K1	K4	K5	189
MAR											
15...	0910	662	9.5	83	7.6	346	9.9	K8	K6	K4	173
APR											
04...	1010	576	10.0	92	7.5	344	11.7	K8	K8	K6	168
MAY											
18...	0900	274	7.5	78	8.1	368	17.8	K10	K11	60	183
JUN											
13...	0910	274	6.0	72	8.1	362	24.7	21	K15	27	177
JUL											
05...	1100	288	7.0	88	7.9	368	27.2	20	23	K7	177
AUG											
02...	1430	242	9.3	119	8.2	350	27.9	K10	K10	K17	184
SEP											
12...	1015	172	6.7	80	7.9	366	24.5	K4	48	31	184

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
OCT											
06...	184	225	0	--	--	--	--	--	--	--	--
NOV											
16...	183	223	0	190	38.4	23.4	.4	4.0	4.6	<.1	8.6
DEC											
08...	198	242	0	--	--	--	--	--	--	--	--
JAN											
11...	182	222	0	210	41.8	26.5	.3	4.5	4.5	.1	11.5
FEB											
08...	192	234	0	--	--	--	--	--	--	--	--
MAR											
15...	180	219	0	--	--	--	--	--	--	--	--
APR											
04...	171	209	0	--	--	--	--	--	--	--	--
MAY											
18...	184	224	0	200	37.6	24.6	1.1	4.3	6.3	.2	8.8
JUN											
13...	177	216	0	--	--	--	--	--	--	--	--
JUL											
05...	177	216	0	190	36.3	24.5	.6	4.8	5.8	<.1	7.3
AUG											
02...	183	223	0	--	--	--	--	--	--	--	--
SEP											
12...	183	223	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

07014500 MERAMEC RIVER NEAR SULLIVAN, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
OCT											
06...	<.020	1.3	.181	<.010	<.050	<.010	E.030	--	--	--	--
NOV											
16...	<.020	.11	.054	<.010	<.050	<.010	E.044	<10	<1	210	E13
DEC											
08...	<.020	E.10	.189	<.010	<.050	<.010	<.050	--	--	--	--
JAN											
11...	<.020	E.10	.087	<.010	<.050	<.010	<.050	<10	2	207	E11
FEB											
08...	<.020	E.10	.137	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
15...	<.020	.10	.116	<.010	<.050	<.010	<.050	--	--	--	--
APR											
04...	<.020	.14	.054	<.010	E.037	<.010	<.050	--	--	--	--
MAY											
18...	<.020	.16	<.050	<.010	<.050	<.010	<.050	<10	<10	203	16
JUN											
13...	<.020	.48	.115	<.010	<.050	<.010	E.035	--	--	--	--
JUL											
05...	<.020	.17	.100	<.010	<.050	<.010	<.050	<10	<10	205	16
AUG											
02...	<.020	.22	<.050	<.010	<.050	<.010	E.033	--	--	--	--
SEP											
12...	<.020	.17	<.050	<.010	<.050	<.010	<.050	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
16...	E16	<8.0	<.1	<10	20	<100	<1	8	<.3	45	<31
JAN											
11...	35	<8.0	<.1	<10	10	<100	<1	7	<.3	E16	<31
MAY											
18...	71	<8.0	<.1	<10	30	<100	<1	17	<.3	E17	<31
JUL											
05...	94	<8.0	<.1	<10	20	<100	<1	16	<.3	E11	<31

E--Laboratory estimated value.

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, datum 2 ft higher.

REMARKS.--Estimated daily discharges: Jan. 19 to Feb. 13. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	1.4	1.5	5.6	4.3	20	21	7.8	7.0	7.0	3.3	2.9
2	2.7	1.3	1.5	5.6	4.2	19	20	7.9	6.9	7.0	3.2	2.6
3	2.4	1.3	2.8	6.3	4.1	19	19	8.1	6.3	7.0	3.2	2.3
4	1.9	1.3	6.1	6.7	4.0	19	17	7.8	6.0	6.5	3.1	2.0
5	1.5	1.2	55	6.7	4.0	18	16	7.7	7.2	5.9	3.1	1.7
6	1.3	1.2	14	6.3	3.9	17	15	7.8	8.0	5.3	3.1	1.5
7	1.2	1.3	8.1	6.1	3.9	17	14	42	7.0	4.9	3.1	1.3
8	1.2	1.4	7.6	6.1	3.8	16	14	27	6.4	4.6	3.1	1.1
9	1.3	1.5	34	6.7	3.8	15	13	13	5.5	4.3	3.2	.97
10	1.2	1.4	960	6.7	3.7	14	12	9.4	5.1	4.0	3.2	.84
11	1.1	1.4	66	6.7	3.7	17	12	7.6	5.0	3.8	3.1	.76
12	1.0	1.4	26	6.4	3.6	19	12	7.3	5.5	3.6	3.0	.76
13	.94	1.4	16	6.1	3.6	25	11	7.1	5.2	3.6	3.0	.70
14	.96	1.4	12	5.8	6.4	49	11	7.0	4.9	3.4	2.9	.62
15	.88	1.4	9.5	5.7	6.3	41	10	7.0	4.9	3.3	2.9	.56
16	.86	1.4	8.2	5.6	6.1	36	10	6.9	5.2	3.3	2.8	.51
17	.92	1.3	7.5	5.7	6.5	28	10	6.7	9.8	3.3	2.7	.49
18	.91	1.4	7.3	5.9	462	24	10	6.5	15	6.0	2.7	.45
19	.97	1.4	7.6	5.7	142	291	10	6.1	8.5	7.6	2.6	.40
20	.97	1.4	7.6	5.5	55	154	9.5	5.9	8.6	6.7	3.4	.36
21	.95	1.4	7.6	5.3	45	59	9.0	5.7	333	6.1	3.6	.35
22	.93	1.5	7.3	5.1	40	41	9.6	5.5	58	5.4	3.6	.31
23	.93	3.2	6.9	4.9	35	34	9.7	5.5	18	5.1	3.4	.31
24	.91	4.4	6.5	4.7	31	30	9.6	5.2	11	4.8	3.6	.32
25	.82	3.2	6.4	4.9	28	27	9.6	4.9	8.8	4.5	5.9	.39
26	.82	2.8	6.1	4.7	27	24	9.1	5.5	11	4.2	8.4	.37
27	.82	2.6	6.0	4.5	25	185	8.7	121	8.3	3.9	6.1	.35
28	.97	2.1	5.9	4.4	23	74	8.8	40	7.3	3.7	4.6	.35
29	1.1	1.6	5.9	4.3	21	34	8.4	12	7.0	3.6	4.1	.34
30	1.2	1.5	5.9	4.2	---	27	8.1	7.9	7.0	3.5	3.7	.32
31	1.2	---	5.7	4.1	---	23	---	7.2	---	3.4	3.3	---
MEAN	1.21	1.72	42.9	5.58	34.8	45.7	11.9	13.8	20.2	4.82	3.58	.87
MAX	2.8	4.4	960	6.7	462	291	21	121	333	7.6	8.4	2.9
MIN	.82	1.2	1.5	4.1	3.6	14	8.1	4.9	4.9	3.3	2.6	.31
IN.	.01	.01	.37	.05	.28	.39	.10	.12	.17	.04	.03	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2000, BY WATER YEAR (WY)

MEAN	46.8	162	185	152	178	233	264	176	129	50.2	35.2	47.6
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1965 - 2000	
ANNUAL MEAN	136		15.6		137	
HIGHEST ANNUAL MEAN					315	1985
LOWEST ANNUAL MEAN					15.6	2000
HIGHEST DAILY MEAN	3740	May 5	960	Dec 10	21000	Dec 3 1982
LOWEST DAILY MEAN	.82	Oct 25,26	.31	Sep 22,23	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	.88	Oct 21	.34	Sep 21	.00	Several Years
INSTANTANEOUS PEAK FLOW	---		2470	Dec 10	49300	Dec 3 1982
INSTANTANEOUS PEAK STAGE	---		7.98	Dec 10	23.65[a]	Dec 3 1982
INSTANTANEOUS LOW FLOW	---		.31	Sep 21-24,29,30	.00	Several Years
ANNUAL RUNOFF (INCHES)	13.68		1.57		13.80	
10 PERCENT EXCEEDS	197		25		226	
50 PERCENT EXCEEDS	9.5		5.6		20	
90 PERCENT EXCEEDS	1.2		.97		.83	

[a]Former datum.

07016400 BOURBEUSE RIVER ABOVE UNION, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 38°25'55", long 91°01'11, in SW $^1/_4$ NW $^1/_4$ sec.34, T.43 N., R.1 W., Franklin County, Hydrologic Unit 07140103, at bridge on North Bend Drive, 5.5 mi upstream from gaging station, and 0.5 mi southwest of Union.

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
24...	0845	88	8.1	73	7.5	354	11.4	33	38	38	154
JAN											
20...	1055	66	12.5	92	7.6	311	3.0	K2	K3	K16	130
MAR											
15...	1120	128	10.9	98	8.4	292	10.4	120	130	K5	135
MAY											
24...	0900	201	6.6	78	7.6	273	23.2	29	30	62	114
JUL											
12...	1155	324	5.9	74	7.3	134	26.5	7200	K8100	K10000	66
SEP											
12...	1245	48	5.0	62	7.8	317	26.5	K13	22	22	151

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
24...	160	195	0	180	34.0	24.2	1.2	6.5	6.5	<.1	21.0
JAN											
20...	132	161	0	--	--	--	--	--	--	--	--
MAR											
15...	132	153	4	--	--	--	--	--	--	--	--
MAY											
24...	114	140	0	140	26.4	17.3	2.2	5.7	6.5	<.1	14.9
JUL											
12...	65	80	0	--	--	--	--	--	--	--	--
SEP											
12...	151	185	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

07016400 BOURBEUSE RIVER ABOVE UNION, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
NOV											
24...	<.020	.20	<.050	<.010	<.050	<.010	<.050	<10	2	200	38
JAN											
20...	<.020	.28	.014	<.010	<.050	<.010	.015	--	--	--	--
MAR											
15...	<.020	.25	<.050	<.010	E.045	<.010	<.050	--	--	--	--
MAY											
24...	<.020	.29	<.050	<.010	<.050	<.010	<.050	<10	<10	152	22
JUL											
12...	<.020	.96	.261	.038	.077	.051	.232	--	--	--	--
SEP											
12...	<.020	.25	<.050	<.010	<.050	<.010	E.031	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
24...	89	<8.0	<.1	<10	70	<100	<1	35	<.3	57	<31
MAY											
24...	190	<8.0	<.1	<10	50	<100	<1	102	<.3	<20	<31

E--Laboratory estimated value.

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.--Estimated daily discharges: May 7, 8, and Sept. 14. Records good except for estimated daily discharges, which are fair. National Weather Service LARC and U.S. Army Corps of Engineers satellite telemeter 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	42	50	65	50	220	310	85	499	382	66	58
2	36	42	50	63	48	172	260	81	385	300	59	49
3	64	43	52	74	48	153	224	78	303	295	55	42
4	60	41	67	72	47	137	193	74	292	270	56	36
5	49	40	140	68	46	125	172	72	288	244	65	30
6	43	42	300	65	45	116	155	71	203	179	67	27
7	40	41	499	65	44	110	146	22100	155	164	98	27
8	67	69	365	67	44	105	132	12700	127	192	105	29
9	55	82	282	68	45	98	118	1570	109	157	71	27
10	53	80	255	72	45	92	109	1070	97	123	56	25
11	50	77	655	69	45	98	102	795	93	109	48	23
12	48	77	1330	66	45	97	97	645	85	406	43	40
13	47	81	600	62	48	94	91	540	85	134	41	37
14	47	76	389	60	48	97	86	453	79	131	37	31
15	45	68	280	58	47	148	80	384	69	125	34	28
16	50	62	217	57	46	305	90	329	86	104	32	25
17	52	58	179	60	54	286	98	290	137	99	29	21
18	48	56	157	62	307	267	88	258	260	94	29	22
19	43	56	136	63	1800	264	91	231	182	108	24	26
20	39	56	120	60	1870	280	103	214	258	91	76	22
21	38	55	110	59	869	672	99	195	433	84	49	20
22	38	54	102	57	562	737	100	173	943	73	45	16
23	37	80	95	56	416	513	110	159	1390	68	45	15
24	37	73	89	56	322	388	184	158	850	65	315	35
25	35	65	83	57	263	309	159	176	622	59	103	77
26	35	58	79	55	254	271	128	285	1140	55	109	45
27	37	54	77	52	217	298	111	1740	1400	51	101	39
28	38	54	76	51	211	495	103	4360	766	58	89	37
29	39	53	74	51	282	474	96	1650	570	85	94	32
30	39	51	71	51	---	516	91	918	472	72	85	27
31	41	---	68	49	---	393	---	648	---	67	71	---
MEAN	44.6	59.5	227	61.0	282	269	131	1694	413	143	70.9	32.3
MAX	67	82	1330	74	1870	737	310	22100	1400	406	315	77
MIN	34	40	50	49	44	92	80	71	69	51	24	15
IN.	.06	.08	.32	.09	.38	.38	.18	2.42	.57	.20	.10	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2000, BY WATER YEAR (WY)

MEAN	304	541	652	654	785	1128	1295	1144	855	339	191	252
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1921 - 2000	
ANNUAL MEAN	495		287		677	
HIGHEST ANNUAL MEAN					1771	1993
LOWEST ANNUAL MEAN					106	1954
HIGHEST DAILY MEAN	9070	Feb 8	22100	May 7	63000	Dec 5 1982
LOWEST DAILY MEAN	33	Sep 17	15	Sep 23	12	Oct 10 1956
ANNUAL SEVEN-DAY MINIMUM	36	Sep 11	20	Sep 17	13	Oct 6 1956
INSTANTANEOUS PEAK FLOW	---		31800	May 7	73300	Dec 5 1982
INSTANTANEOUS PEAK STAGE	---		24.53	May 7	33.80	Dec 5 1982
INSTANTANEOUS LOW FLOW	---		12	Sep 23	11	Oct 10 1956
ANNUAL RUNOFF (INCHES)	8.32		4.84		11.38	
10 PERCENT EXCEEDS	1020		459		1320	
50 PERCENT EXCEEDS	117		80		172	
90 PERCENT EXCEEDS	40		38		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.--No estimated daily discharges. Records fair. 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	5.2	10	12	23	20	135	87	24	10	16	9.5	2.0
2	5.2	11	12	23	20	110	77	22	9.1	15	8.1	2.1
3	5.3	10	16	86	20	102	69	23	8.5	13	7.1	1.9
4	5.7	10	23	174	21	97	61	22	8.0	13	7.5	1.7
5	5.7	11	29	98	21	88	54	21	7.9	12	7.1	1.7
6	6.1	12	24	74	20	77	51	22	8.5	11	6.7	1.7
7	6.6	11	18	61	19	68	49	22	8.2	18	5.8	1.8
8	7.0	10	16	54	19	62	47	20	7.7	15	6.2	1.8
9	7.8	10	26	52	19	56	43	19	7.1	12	5.7	2.1
10	8.3	9.8	694	48	22	51	40	18	6.8	11	4.6	2.6
11	8.1	9.5	197	43	23	53	38	17	7.1	9.2	3.6	2.3
12	7.7	9.7	169	38	23	52	36	16	8.4	15	3.3	4.7
13	7.4	10	188	34	24	53	34	16	8.7	17	3.0	3.8
14	6.6	10	116	32	25	54	33	15	9.4	12	3.0	2.9
15	6.9	10	83	30	25	52	33	14	9.4	10	2.6	2.4
16	8.1	10	63	29	24	52	34	14	11	9.0	2.2	2.3
17	10	10	52	29	26	50	36	14	35	9.5	2.1	2.1
18	8.7	11	45	28	188	50	33	13	40	11	1.9	1.9
19	8.8	11	40	28	223	87	31	13	27	11	1.9	1.6
20	8.7	10	36	26	136	380	31	13	21	10	4.3	1.4
21	9.1	11	33	24	100	272	28	13	34	11	4.5	1.2
22	8.6	12	30	25	83	177	27	13	40	14	3.1	1.2
23	7.9	17	29	25	71	137	26	13	27	12	2.3	1.2
24	7.8	17	28	24	63	116	30	18	22	9.8	3.3	3.7
25	8.4	14	26	22	57	99	31	23	33	8.7	4.1	11
26	8.9	12	25	22	193	87	27	18	27	7.7	3.6	10
27	9.9	11	27	20	458	165	27	20	26	7.0	3.8	6.8
28	9.9	11	24	20	227	156	28	18	21	6.7	3.7	5.5
29	9.7	9.9	24	21	160	122	26	16	18	9.5	3.0	4.0
30	9.9	11	24	21	---	108	24	14	16	11	2.5	3.7
31	9.9	---	24	21	---	93	---	12	---	10	2.2	---
MEAN	7.87	11.1	69.5	40.5	80.3	105	39.7	17.3	17.4	11.5	4.27	3.10
MAX	10	17	694	174	458	380	87	24	40	18	9.5	11
MIN	5.2	9.5	12	20	19	50	24	12	6.8	6.7	1.9	1.2
IN.	.05	.07	.46	.27	.50	.69	.25	.11	.11	.08	.03	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2000, BY WATER YEAR (WY)

MEAN	61.1	234	267	212	255	327	365	237	121	53.2	56.3	64.0
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1965 - 2000	
ANNUAL MEAN	159		33.9		187	
HIGHEST ANNUAL MEAN					449	1985
LOWEST ANNUAL MEAN					33.9	2000
HIGHEST DAILY MEAN	6790	Feb 7	694	Dec 10	21300	Nov 14 1993
LOWEST DAILY MEAN	4.7	Sep 10	1.2	Sep 21-23	1.2	Sep 21 2000
ANNUAL SEVEN-DAY MINIMUM	5.4	Sep 5	1.5	Sep 17	1.5	Sep 17 2000
INSTANTANEOUS PEAK FLOW	---		1390	Dec 10	49100	Nov 14 1993
INSTANTANEOUS PEAK STAGE	---		5.35	Dec 10	28.95	Nov 14 1993
INSTANTANEOUS LOW FLOW	---		.72	Sep 23	.72	Sep 23 2000
ANNUAL RUNOFF (INCHES)	12.32		2.64		14.54	
10 PERCENT EXCEEDS	399		83		372	
50 PERCENT EXCEEDS	29		16		58	
90 PERCENT EXCEEDS	7.6		3.6		11	

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."

GAGE.--Water-stage recorder. Datum of gage is 523.00 ft above sea level.

REMARKS.--Estimated daily discharges: Jan. 27 to Feb. 3, June 13, 14, and Sept. 14. Water-discharge records good except for estimated daily discharges Jan. 27 to Feb. 3, which are fair. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	110	106	129	119	395	303	130	110	145	98	60
2	84	110	106	125	119	338	283	124	100	133	88	57
3	84	108	113	170	119	309	269	120	93	128	81	57
4	84	105	136	296	119	284	250	117	89	120	76	55
5	86	105	162	326	119	265	228	115	159	119	87	51
6	87	107	163	320	117	249	212	116	118	111	126	47
7	93	108	154	261	116	232	203	1160	96	104	100	44
8	101	108	145	230	115	217	201	205	87	167	83	45
9	101	108	165	215	115	202	190	151	81	138	89	45
10	104	109	611	196	115	190	177	137	78	113	82	46
11	100	107	974	183	115	192	168	128	77	103	70	45
12	97	106	606	184	113	197	160	121	78	111	64	54
13	96	105	469	180	115	201	153	115	84	138	59	56
14	92	105	460	176	122	201	147	109	87	132	57	56
15	91	103	409	168	126	198	145	105	94	102	55	58
16	92	102	345	147	121	195	151	102	225	93	53	56
17	105	102	305	138	121	192	160	102	2310	96	51	55
18	108	103	278	138	220	192	151	99	1040	99	55	52
19	107	102	259	135	456	212	146	96	512	102	55	49
20	103	101	242	130	508	541	140	96	346	94	69	47
21	104	102	223	125	390	1010	133	95	508	90	74	45
22	102	103	199	125	318	702	127	95	511	88	79	45
23	100	113	182	125	273	525	125	94	345	85	73	45
24	98	126	165	122	269	428	142	95	282	81	95	52
25	98	122	154	120	234	369	167	120	272	78	98	68
26	99	117	149	118	232	329	158	140	232	76	100	100
27	103	120	145	118	338	342	146	295	204	72	95	102
28	103	116	143	116	694	390	140	273	211	74	81	86
29	103	111	140	116	509	425	138	186	190	86	73	81
30	104	107	142	117	---	374	138	146	158	100	68	74
31	107	---	137	117	---	332	---	124	---	106	64	---
MEAN	97.4	108	258	167	222	330	175	165	293	106	77.4	57.8
MAX	108	126	974	326	694	1010	303	1160	2310	167	126	102
MIN	84	101	106	116	113	190	125	94	77	72	51	44
IN.	.15	.16	.40	.26	.33	.52	.27	.26	.44	.17	.12	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY)

MEAN	274	671	826	732	931	1225	1310	1034	574	394	260	314
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	165	110	86.0	69.9	40.6
(WY)	1957	1977	1956	1977	1954	1954	2000	2000	1980	1980	1955	1956

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1949 - 2000	
ANNUAL MEAN	602		171		711	
HIGHEST ANNUAL MEAN					1766	1985
LOWEST ANNUAL MEAN					171	2000
HIGHEST DAILY MEAN	13900	Feb 7	2310	Jun 17	44400	Nov 15 1993
LOWEST DAILY MEAN	84	Sep 11,19,28-Oct 4	44	Sep 7	22	Sep 19 1954
ANNUAL SEVEN-DAY MINIMUM	84	Sep 28	46	Sep 5	26	Sep 13 1954
INSTANTANEOUS PEAK FLOW	---		5470	May 7	59800	Sep 23 1993
INSTANTANEOUS PEAK STAGE	---		11.11	May 7	30.33	Sep 23 1993
INSTANTANEOUS LOW FLOW	---		43	Sep 7,8,11,12	20	Sep 19 1954
ANNUAL RUNOFF (INCHES)	11.13		3.17		13.14	
10 PERCENT EXCEEDS	1300		322		1320	
50 PERCENT EXCEEDS	231		118		288	
90 PERCENT EXCEEDS	95		70		101	

07018100 BIG RIVER NEAR RICHWOODS, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1963 to 1975, November 1983 to June 1987, November 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
22...	1025	103	10.3	93	7.9	555	10.8	K7	K15	K10	218
JAN											
20...	0820	130	13.3	99	8.5	500	3.3	K10	K5	K10	232
MAR											
15...	0925	199	10.6	93	8.4	454	9.3	K3	K6	K6	234
MAY											
24...	1100	93	7.2	85	7.8	529	23.1	21	24	K19	220
JUL											
12...	0955	114	6.1	79	8.0	492	28.5	45	49	24	201
SEP											
11...	1420	45	6.7	84	8.0	579	27.5	K1	K6	K8	209

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
22...	219	267	0	300	56.4	38.4	1.7	8.2	10.1	<.1	45.9
JAN											
20...	232	280	1	--	--	--	--	--	--	--	--
MAR											
15...	235	265	11	--	--	--	--	--	--	--	--
MAY											
24...	222	271	0	280	50.5	36.5	2.1	8.5	10.3	<.1	39.6
JUL											
12...	204	249	0	--	--	--	--	--	--	--	--
SEP											
11...	211	257	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV											
22...	<.020	.15	<.050	<.010	<.050	<.010	<.050	<10	3	312	<15
JAN											
20...	<.020	.13	.071	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
15...	<.020	.22	.093	<.010	<.050	<.010	<.050	--	--	--	--
MAY											
24...	.022	.20	.062	<.010	<.050	<.010	<.050	20	<10	302	<15
JUL											
12...	<.020	.23	.091	<.010	<.050	<.010	<.050	--	--	--	--
SEP											
11...	<.020	.19	<.050	<.010	<.050	<.010	E.030	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
22...	41	<8.0	.2	<10	<10	<100	18	25	<.3	<20	<31
MAY											
24...	183	<8.0	.1	<10	20	<100	43	64	<.3	<20	E28

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.--Estimated daily discharges: Oct. 8-18, 25-28, May 13-26, May 31 to June 15, June 29 to July 4, Aug. 26-29, and Sept. 26-30. Records good except for estimated daily discharges, which are poor. National Weather Service and U.S.G.S. satelite telemeters 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	124	139	167	156	552	386	197	240	260	118	92
2	104	128	135	161	151	447	355	192	200	245	123	87
3	105	127	134	174	149	397	331	183	170	230	119	84
4	105	127	136	198	148	361	312	174	150	210	114	81
5	105	127	150	297	152	331	296	168	170	192	112	77
6	106	127	177	341	151	310	283	167	200	176	108	74
7	107	126	186	351	149	298	269	13100	180	171	130	71
8	135	127	181	303	148	282	260	9020	170	159	185	69
9	141	128	191	274	147	266	254	803	160	166	135	67
10	135	128	245	252	147	251	247	508	155	189	111	65
11	131	130	623	235	147	242	235	395	150	162	106	63
12	130	131	966	222	146	234	226	334	145	173	101	62
13	127	130	640	219	151	231	218	280	140	171	94	61
14	119	130	514	215	152	235	211	250	150	156	90	60
15	118	129	492	212	153	239	206	235	160	171	87	61
16	117	128	448	208	157	237	204	220	221	148	82	62
17	116	128	387	195	159	233	202	205	3650	140	82	63
18	118	126	344	183	234	230	212	190	2630	142	80	64
19	125	126	315	177	300	235	209	175	1120	146	75	65
20	128	126	293	172	498	347	202	165	698	133	76	65
21	126	127	275	166	547	738	194	160	875	133	82	65
22	123	126	258	163	448	1000	190	155	821	125	86	66
23	121	130	237	160	378	745	185	150	664	118	88	66
24	118	132	221	160	330	590	196	150	576	114	106	67
25	117	135	203	157	326	494	194	145	531	109	109	69
26	117	143	190	154	302	437	205	170	1020	105	134	119
27	117	146	182	150	286	436	215	1350	482	101	157	168
28	118	145	177	148	376	423	215	944	355	101	147	140
29	117	145	173	149	695	453	209	482	300	108	115	125
30	120	143	171	155	---	480	201	343	275	109	105	115
31	122	---	169	155	---	431	---	290	---	112	98	---
MEAN	119	131	289	202	251	393	237	1010	559	154	108	79.8
MAX	141	146	966	351	695	1000	386	13100	3650	260	185	168
MIN	104	124	134	148	146	230	185	145	140	101	75	60
IN.	.15	.16	.36	.25	.30	.49	.29	1.27	.68	.19	.14	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2000, BY WATER YEAR (WY)

MEAN	329	713	876	922	1111	1444	1688	1422	833	488	295	351
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1922 - 2000	
ANNUAL MEAN	749		295		872	
HIGHEST ANNUAL MEAN					1934	1985
LOWEST ANNUAL MEAN					227	1954
HIGHEST DAILY MEAN	15300	Feb 8	13100	May 7	57800	Sep 25 1993
LOWEST DAILY MEAN	104	Sep 7,21,Oct 1,2	60	Sep 14	25	Aug 30 1936
ANNUAL SEVEN-DAY MINIMUM	105	Sep 30	62	Sep 11	34	Aug 28 1936
INSTANTANEOUS PEAK FLOW	---		23400	May 7	63600	Sep 25 1993
INSTANTANEOUS PEAK STAGE	---		22.44	May 7	29.37	Sep 25 1993
INSTANTANEOUS LOW FLOW	---		59	Sep 13,14	25	Aug 30 1936
ANNUAL RUNOFF (INCHES)	11.10		4.38		12.92	
10 PERCENT EXCEEDS	1620		447		1720	
50 PERCENT EXCEEDS	278		162		340	
90 PERCENT EXCEEDS	117		97		118	

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.--No estimated daily discharges. Records fair. National Weather Service telemark and U.S. Army Corps of Engineers satellite telemeter 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	526	646	684	716	721	1830	1740	756	1610	1400	629	550
2	528	645	678	713	711	1640	1570	748	1370	1280	614	507
3	530	655	686	733	713	1500	1440	735	1210	1380	637	486
4	541	663	700	769	704	1390	1330	725	1090	1220	563	473
5	548	655	762	837	706	1300	1230	727	1390	1100	611	435
6	548	663	854	956	706	1250	1160	731	1250	1010	605	434
7	543	681	963	1060	706	1200	1110	23500	1120	1040	627	396
8	587	677	1170	1050	701	1150	1050	59100	1060	1060	913	372
9	618	688	1110	1010	706	1090	1010	22200	991	1040	731	368
10	613	715	1180	956	708	1030	979	3450	958	999	622	380
11	614	709	1420	914	701	1020	951	2340	916	940	574	393
12	604	702	3100	885	697	1010	912	1890	913	1470	544	404
13	598	700	3200	866	713	999	881	1600	943	1280	522	398
14	552	688	2210	839	723	995	859	1390	917	983	499	400
15	525	675	1850	824	721	1010	836	1290	896	860	496	399
16	525	675	1640	810	721	1070	830	1220	868	861	486	380
17	518	662	1440	800	722	1220	857	1200	4240	824	468	389
18	524	662	1280	799	1110	1230	848	1130	6180	840	451	380
19	537	660	1160	784	1330	1230	837	1080	3210	979	455	382
20	550	664	1060	772	3560	1400	837	1030	2160	881	497	373
21	555	665	995	758	2960	1700	821	989	2500	793	531	381
22	557	670	949	757	2170	2630	792	971	2800	757	498	412
23	555	700	901	747	1880	2390	782	984	3270	725	502	420
24	563	719	847	739	1590	2020	810	948	3340	732	764	422
25	572	729	813	734	1440	1770	879	931	3020	679	968	443
26	583	728	786	727	1380	1590	868	980	5090	647	727	472
27	595	721	760	720	1360	1720	854	2770	3400	634	706	495
28	597	720	742	713	1340	1650	821	8910	2550	629	683	460
29	613	718	737	711	1720	1900	792	6430	1790	667	643	491
30	624	696	732	719	---	2020	772	2930	1500	695	581	521
31	641	---	723	762	---	1970	---	2020	---	644	557	---
MEAN	567	685	1166	812	1170	1481	982	5023	2085	937	603	427
MAX	641	729	3200	1060	3560	2630	1740	59100	6180	1470	968	550
MIN	518	645	678	711	697	995	772	725	868	629	451	368
IN.	.17	.20	.35	.25	.33	.45	.29	1.53	.61	.29	.18	.13

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

MEAN	1423	2522	3007	3230	3883	5237	6294	5334	3651	1934	1196	1428
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	2855		1332		3248	
HIGHEST ANNUAL MEAN					7407	1985
LOWEST ANNUAL MEAN					751	1954
HIGHEST DAILY MEAN	37800	Feb 9	59100	May 8	139000	Dec 6 1982
LOWEST DAILY MEAN	516	Sep 22	368	Sep 9	196	Aug 27 1936
ANNUAL SEVEN-DAY MINIMUM	522	Sep 19	383	Sep 15	209	Aug 26 1936
INSTANTANEOUS PEAK FLOW	---		64400	May 8	145000	Dec 6 1982
INSTANTANEOUS PEAK STAGE	---		27.88	May 8	42.89	Dec 6 1982
INSTANTANEOUS LOW FLOW	---		354	Sep 16,17	196	Aug 27 1936
ANNUAL RUNOFF (INCHES)	10.23		4.79		11.65	
10 PERCENT EXCEEDS	6740		1860		6800	
50 PERCENT EXCEEDS	1280		789		1420	
90 PERCENT EXCEEDS	552		506		530	

07019072 KIEFER CREEK NEAR BALLWIN, MO

LOCATION.--Lat 38°33'19", long 90°33'06", 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.--Estimated daily discharges: Nov. 30, Dec. 1, and Dec. 3-7. Water-discharge records poor.

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	.70	4.2	.90	1.3	.86	4.6	1.5	1.6	3.2	1.9	2.3	.76
2	.71	3.5	1.0	1.4	.88	4.2	1.4	2.4	2.9	11	1.4	.92
3	1.5	1.5	1.1	3.9	.90	5.9	1.4	1.8	2.7	7.5	1.1	1.0
4	1.8	1.2	1.5	2.9	1.0	4.3	1.3	1.7	2.7	3.9	.88	1.0
5	1.0	1.1	2.0	1.9	.79	3.5	1.2	1.5	5.2	3.1	.87	.79
6	.82	1.1	1.5	1.7	.79	2.9	1.3	1.6	2.7	2.7	1.0	.71
7	.73	1.0	1.2	1.4	.77	2.6	6.5	251	2.7	2.6	1.5	.70
8	8.5	1.0	1.1	1.8	.74	2.4	3.2	34	4.3	2.3	20	.66
9	6.5	1.1	11	1.9	.73	2.4	1.8	12	3.9	2.3	3.4	.80
10	2.8	1.1	13	1.7	.78	2.1	1.6	7.6	3.9	2.1	2.0	1.6
11	1.6	1.1	5.7	1.6	.68	3.9	1.5	6.5	4.2	2.0	1.8	.78
12	1.5	.96	6.4	1.4	.61	4.9	1.3	5.1	6.5	2.2	1.7	4.0
13	1.5	.91	5.1	1.2	1.1	4.9	1.2	4.5	6.8	4.0	1.5	1.7
14	1.4	.92	4.4	1.1	.87	2.6	1.2	4.3	5.7	2.4	1.3	1.2
15	1.7	.93	3.2	1.1	.67	1.9	1.3	3.9	4.6	1.9	1.1	1.1
16	1.7	.93	2.2	1.2	.63	1.5	1.9	3.9	6.5	2.2	1.0	.84
17	1.9	.96	1.5	1.7	1.2	1.1	1.9	4.3	13	2.3	2.4	.81
18	1.6	.97	1.4	2.1	76	1.6	1.4	4.0	6.7	2.4	7.0	.76
19	1.6	1.1	1.5	1.2	15	6.3	1.3	4.1	4.4	3.3	2.5	.73
20	1.5	1.1	1.4	1.1	9.2	15	1.7	4.0	9.2	2.3	7.2	.65
21	1.5	1.1	1.4	1.0	7.5	5.5	1.5	3.9	14	1.9	3.4	.68
22	1.5	1.1	1.4	1.0	6.4	2.6	1.1	5.2	5.2	1.9	2.1	.82
23	1.5	3.2	1.4	.97	5.7	1.8	1.7	5.6	3.1	1.7	1.6	.66
24	1.4	2.2	1.3	.97	5.2	2.0	5.4	4.6	176	1.6	4.7	2.7
25	1.5	1.3	1.3	.94	4.9	1.4	3.0	5.1	22	1.3	2.6	18
26	1.5	1.1	1.4	.93	13	7.4	1.8	6.0	43	1.1	1.9	4.9
27	1.5	1.0	1.4	.87	10	12	2.1	34	9.2	1.2	2.2	2.5
28	1.4	.98	1.6	.82	6.3	4.0	2.3	12	3.8	1.8	1.3	1.8
29	1.5	.94	1.5	.86	5.2	2.4	2.5	5.8	2.5	5.7	.82	1.6
30	1.6	.92	1.4	.94	---	1.9	1.8	4.7	1.8	1.9	.78	1.5
31	1.6	---	1.3	.86	---	1.7	---	3.7	---	1.8	.85	---
MEAN	1.86	1.35	2.66	1.41	6.15	3.91	1.97	14.5	12.7	2.78	2.72	1.89
MAX	8.5	4.2	13	3.9	76	15	6.5	251	176	11	20	18
MIN	.70	.91	.90	.82	.61	1.1	1.1	1.5	1.8	1.1	.78	.65
IN.	.55	.39	.78	.42	1.70	1.15	.56	4.29	3.64	.82	.80	.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	3.29	4.50	2.53	5.55	9.62	8.00	5.02	6.57	8.44	4.08	3.22	4.07
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	6.15	3.91	1.97	3.12	1.68	1.70	1.71	.82
(WY)	2000	2000	1999	2000	2000	2000	2000	1997	1999	1997	1996	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL MEAN	4.21		4.49		5.24	
HIGHEST ANNUAL MEAN					7.06	1998
LOWEST ANNUAL MEAN					4.30	1999
HIGHEST DAILY MEAN	156	Feb 7	251	May 7	251	May 7 2000
LOWEST DAILY MEAN	.66	Sep 27	.61	Feb 12	.61	Feb 12 2000
ANNUAL SEVEN-DAY MINIMUM	.70	Sep 21	.73	Feb 6	.70	Sep 21 1999
INSTANTANEOUS PEAK FLOW[a]	---		1980	Jun 24	2180	Sep 6 1996
INSTANTANEOUS PEAK STAGE	---		7.84	Jun 24	8.08	Sep 6 1996
INSTANTANEOUS LOW FLOW	---		.22	Sep 20	.22	Sep 20 2000
ANNUAL RUNOFF (INCHES)	14.63		15.63		18.21	
10 PERCENT EXCEEDS	8.7		6.5		10	
50 PERCENT EXCEEDS	1.8		1.7		2.4	
90 PERCENT EXCEEDS	.87		.87		1.0	

[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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
JAN												
05...	1340	1.8	9.9	91	7.1	635	12.4	420	520	300	177	172
FEB												
18...	0157	685	13.2	99	7.4	302	3.2	6600	8600	64000	83	104
28...	1530	5.3	10.2	96	7.1	924	13.0	100	820	140	175	172
MAY												
07...	1052	306	7.6	81	7.1	127	19.0	15000	20000	78000	66	64
27...	0748	83	8.0	86	7.6	408	18.6	46000	24000	K240000	64	63
JUN												
14...	1230	14	8.3	82	7.1	731	14.6	400	420	1900	195	199
20...	2302	143	8.2	94	7.3	194	22.0	34000	K60000	89000	55	54
JUL												
31...	1330	1.3	9.2	89	6.9	783	14.2	200	580	640	210	214

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	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, ORGANIC TOTAL (mg/L as N) (00605)	NITRO-GEN, TOTAL (mg/L as N) (00600)	NITRO-GEN, AMMONIA TOTAL (mg/L as NH_4) (71845)
JAN												
05...	210	0	230	71.0	12.0	55.0	.28	.06	1.6	.22	1.9	.08
FEB												
18...	127	0	--	--	--	--	.80	.24	.6	.56	1.4	.31
28...	213	0	260	83.0	13.0	150	.24	.04	1.7	.20	1.9	.05
MAY												
07...	79	0	80	25.0	4.20	--	1.1	.10	.8	1.0	1.9	.13
27...	76	0	75	24.0	3.60	--	.99	.08	.5	.91	1.5	.10
JUN												
14...	242	0	260	81.0	13.0	--	<.20	.06	1.6	--	--	.08
20...	66	0	64	21.0	2.80	--	3.2	.22	.6	3.0	3.8	.28
JUL												
31...	262	0	280	88.0	14.0	--	<.20	.04	3.0	--	--	.05

DATE	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, TOTAL (mg/L as NO_3) (71887)	PHOS-PHATE, TOTAL (mg/L as PO_4) (00650)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	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)
JAN												
05...	<.01	8.3	--	E.070	.080	25	8	45	<1.0	<1	<1.0	<1.0
FEB												
18...	<.01	6.1	3.37	1.10	3.50	5.8	--	--	--	--	--	--
28...	<.01	8.6	.215	.070	.060	30	7	82	<1.0	<1	<1.0	<1.0
MAY												
07...	<.01	8.2	--	E.220	.370	10	170	2000	1.4	<1	<1.0	2.1
27...	E.02	6.6	--	E.160	.330	3.2	120	358	1.6	<1	<1.0	1.0
JUN												
14...	<.01	--	--	E.050	.060	30	5	17	<1.0	<1	<1.0	<1.0
20...	<.01	16.8	--	E.510	1.00	5.2	1100	1200	1.4	<1	<1.0	1.3
JUL												
31...	E.01	--	--	E.060	.050	56	3	9	<1.0	<1	<1.0	4.9

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07019072 KIEFER CREEK NEAR BALLWIN, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	COPPER, DISSOLVED (µg/L as Cu) (01040)	IRON, DISSOLVED (µg/L as Fe) (01046)	LEAD, DISSOLVED (µg/L as Pb) (01049)	MANGANESE, DISSOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOVERABLE (µg/L as Hg) (71900)	NICKEL, DISSOLVED (µg/L as Ni) (01065)	SELENIUM, DISSOLVED (µg/L as Se) (01145)	SILVER, DISSOLVED (µg/L as Ag) (01075)	ZINC, DISSOLVED (µg/L as Zn) (01090)	1,1,1-TRICHLOROETHANE TOTAL (µg/L) (34506)	1,1-DICHLOROETHANE TOTAL (µg/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (µg/L) (34501)
JAN												
05...	1	40	<1	11	<.1	<1	<1.0	<1	230	--	--	--
FEB												
28...	2	50	<1	14	<.1	1	<1.0	<1	120	--	--	--
MAY												
07...	5	2100	5	250	<.1	4	<1.0	<1	73	<.10	<.10	<.10
27...	3	330	<1	17	<.1	1	<1.0	<1	68	<.10	<.10	<.10
JUN												
14...	1	10	<1	27	<.1	1	<1.0	<1	3	--	--	--
20...	4	1100	2	59	.1	2	<1.0	<1	66	<.10	<.10	<.10
JUL												
31...	<1	10	<1	24	<.1	1	<1.0	<1	5	--	--	--

DATE	1,2,5,6-DIBENZ-ANTHRACENE TOTAL (µg/L) (34556)	1,2-DICHLOROETHANE TOTAL (µg/L) (32103)	1,2-DICHLOROPROPANE TOTAL (µg/L) (34541)	1,2-DIPHENYLHYDRAZINE WATER TOT.REC (µg/L) (82626)	TRANS-1,2-DICHLOROETHENE TOTAL (µg/L) (34546)	2,4,6-TRICHLOROPHENOL TOTAL (µg/L) (34621)	2,4-DIMETHYLPHENOL TOTAL (µg/L) (34606)	2,4-DICHLOROPHENOL TOTAL (µg/L) (34601)	2,4,-DINITROPHENOL TOTAL (µg/L) (34616)	2,4-DINITROTOLUENE TOTAL (µg/L) (34611)	2,6-DINITROTOLUENE TOTAL (µg/L) (34626)	2-CHLORONAPHTHALENE TOTAL (µg/L) (34581)
MAY												
07...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2
27...	<3	<.2	<.10	<2	<.10	<3	<3	E1	<1	<3	<2	<2
JUN												
20...	--	<.2	<.10	--	<.10	--	--	--	--	--	--	--

DATE	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 1,2,4-TRICHLORO-WAT UNF REC (µg/L) (34551)
MAY												
07...	<2	<3	<2	<3	<2	<2	<1	<2	<2	<.013	<.05	<2.2
27...	<2	<3	<2	<3	<2	<2	E1	<2	<2	<.013	<.05	<2.2
JUN												
20...	--	--	--	--	--	--	--	--	--	<.013	--	--

DATE	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)	BENZENE O-DICHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)	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)
MAY												
07...	<.10	<.10	<2	<.10	<.10	<40	<3	<1	<1	<2	<1	<3
27...	<.10	<.10	<2	<.10	<.10	<40	<3	<1	<1	<2	<1	<3
JUN												
20...	<.10	<.10	--	<.10	<.10	--	--	--	--	--	--	--

E--Laboratory estimated value.

07019072 KIEFER CREEK NEAR BALLWIN, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	BIS(2-CHLORO-ETHYL) ETHER UNFLTRD RECOVER (µg/L) (34273)	BIS(2-CHLORO-ISO-PROPYL) ETHER TOTAL (µg/L) (34283)	BIS(2-ETHYL HEXYL) PHTHALATE TOTAL (µg/L) (39100)	BROMOFORM TOTAL (µg/L) (32104)	CARBON TETRACHLORIDE TOTAL (µg/L) (32102)	CHLORDANE, TECHNICAL TOTAL (µg/L) (39350)	CHLOROBENZENE TOTAL (µg/L) (34301)	CHLORODIBROMOMETHANE TOTAL (µg/L) (32105)	CHLOROFORM TOTAL (µg/L) (32106)	CHLORPYRIFOS TOTAL RECOVER (µg/L) (38932)	CHRYSENE TOTAL (µg/L) (34320)
MAY											
07...	<2	<2	<10	<.20	<.20	<.1	<.10	<.2	<.10	E.01	<3
27...	<2	<2	<10	<.20	<.20	<.1	<.10	<.2	<.10	E.01	<3
JUN											
20...	--	--	--	<.20	<.20	<.1	<.10	<.2	<.10	E.01	--

DATE	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	CYCLOPENTADIENE HEXACHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DIAZINON, TOTAL (µg/L) (39570)	BROMODICHLOROMETHANE TOTAL (µg/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (µg/L) (34668)	DIELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHALATE TOTAL (µg/L) (34336)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DIMETHYL PHTHALATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHALATE TOTAL (µg/L) (39110)
MAY											
07...	<.10	<2	<.02	.70	<.10	<.2	<.009	<2	<.2	<2	<3
27...	<.10	<2	<.02	.28	<.10	<.2	<.009	<2	<.2	<2	<3
JUN											
20...	<.10	--	<.02	.99	<.10	<.2	<.009	--	<.2	--	--

DATE	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)	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)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µg/L) (50005)	ETHION, TOTAL (µg/L) (39398)	ETHYLBENZENE TOTAL (µg/L) (34371)	FLUORANTHENE TOTAL (µg/L) (34376)
MAY											
07...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	<1
27...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	<1
JUN											
20...	--	<.03	<.015	<.014	--	<.2	<.10	<.2	<.01	<.10	--

DATE	FLUORENE TOTAL (µg/L) (34381)	FONOFOS (DYFONATE) WATER WHOLE TOT.REC (µg/L) (82614)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEPTACHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTACHLOR, TOTAL (µg/L) (39410)	HEXACHLOROBENZENE TOTAL (µg/L) (39700)	HEXACHLOROBUTADIENE TOTAL (µg/L) (39702)	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)
MAY											
07...	<2	<.01	<.10	<.009	<.011	<2	<2.6	<1	<1	<.012	<.03
27...	<2	<.01	<.10	<.009	<.011	<2	<2.6	<1	<1	<.012	<.03
JUN											
20...	--	<.01	<.10	<.009	<.011	--	--	--	--	<.012	<.03

E--Laboratory estimated value.

07019072 KIEFER CREEK NEAR BALLWIN, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	MIREX, TOTAL (µg/L) (39755)	META/ PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	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)
MAY											
07...	<.01	<.01	E.1	<.2	<.01	<.20	<2.1	<4	<3	<2	<3
27...	<.01	<.01	<.2	<.2	<.01	<.20	<2.1	<4	<3	<2	<3
JUN											
20...	<.01	<.01	<.2	<.2	<.01	<.20	--	--	--	--	--

DATE	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	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)	PCNS UNFILT RECOVER (µg/L) (39250)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PER-THANE TOTAL (µg/L) (39034)	PHENAN-THRENE TOTAL (µg/L) (34461)
MAY											
07...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	E1	<.1	<1
27...	<.10	<.014	<.016	<.017	<3	<.01	<.1	--	<1	--	<1
JUN											
20...	<.10	<.014	<.016	<.017	--	<.01	<.1	--	--	--	--

DATE	PHENOL TOTAL (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TOX-APHENE, TOTAL (µg/L) (39400)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	TOTAL TRI-THION (µg/L) (39786)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
MAY											
07...	<3	<.02	<1	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2
27...	<3	<.02	<1	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2
JUN											
20...	--	<.02	--	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2

E--Laboratory estimated value.

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.--Estimated daily discharges: May 8, 9, 19-22, July 25-28, and Aug. 4-6. Water-discharge records fair except those below 1 ft^3/s and above 300 ft^3/s and estimated daily discharges, which are poor.

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	.54	.62	.56	.56	.64	.92	2.1	.92	2.9	4.7	2.0	1.5
2	.53	.77	.57	.57	.63	.83	1.8	1.1	2.4	4.6	1.4	1.4
3	.55	.75	.59	1.6	.69	.80	1.6	1.1	2.0	6.6	1.2	1.4
4	.56	.71	.63	2.8	.74	.86	1.4	.93	1.9	4.6	1.06	1.3
5	.55	.67	1.2	.95	.71	.80	1.4	.87	2.3	3.9	.99	1.3
6	.53	.63	1.6	.75	.68	.74	1.4	.84	1.8	3.5	.92	1.3
7	.53	.64	.90	.66	.69	.69	1.7	111	1.6	3.1	2.0	1.2
8	2.5	.67	.73	.60	.67	.67	1.5	28	1.5	2.8	18	1.3
9	3.1	.68	2.0	.74	.62	.67	1.3	11	1.4	2.6	6.4	1.3
10	1.2	.64	9.6	.75	.65	.64	1.2	6.8	1.3	2.5	3.6	1.4
11	.74	.60	2.7	.70	.61	.61	1.2	4.9	1.4	2.4	2.7	1.6
12	.60	.60	1.2	.61	.59	.79	1.1	4.0	2.8	2.4	2.2	2.9
13	.57	.59	1.0	.59	.75	.84	.98	3.1	2.3	2.4	2.0	2.3
14	.57	.60	.83	.58	1.9	.79	1.0	2.5	1.7	2.2	1.8	1.8
15	.57	.59	.74	.58	1.1	.74	1.0	2.2	1.6	2.1	1.6	1.6
16	.56	.58	.67	.59	.86	.69	.97	2.1	1.8	2.0	1.5	1.4
17	.58	.58	.63	.60	.76	.65	1.2	2.0	8.1	1.9	2.0	1.4
18	.58	.58	.59	.73	26	.64	1.0	1.9	6.1	2.2	3.3	1.4
19	.56	.58	.58	.71	6.0	.83	.95	1.8	3.5	1.9	2.0	1.3
20	.55	.57	.58	.75	2.3	5.3	.95	1.7	3.0	1.9	3.9	1.3
21	.55	.58	.58	.70	1.2	3.9	.93	1.6	9.2	1.8	3.1	1.3
22	.58	.58	.57	.69	1.0	1.9	.88	1.5	5.2	1.7	2.1	1.2
23	.67	.59	.56	.70	.92	1.2	.85	2.2	3.6	1.6	1.8	1.3
24	.67	.65	.57	.67	.92	1.1	1.4	1.7	42	1.5	3.1	1.8
25	.63	.58	.57	.65	.88	.94	2.0	1.4	30	1.4	2.9	6.7
26	.59	.58	.57	.64	.94	1.4	1.3	4.4	53	1.3	2.7	4.4
27	.60	.58	.57	.61	1.4	7.7	1.1	18	21	1.2	2.6	1.9
28	.58	.57	.58	.61	1.1	5.5	1.3	14	11	1.1	2.2	1.4
29	.59	.57	.58	.60	.97	3.8	1.1	7.4	7.9	3.0	2.0	1.1
30	.58	.56	.58	.62	---	3.0	.95	4.8	5.8	4.0	1.8	.90
31	.59	---	.56	.66	---	2.4	---	3.6	---	2.5	1.7	---
MEAN	.75	.62	1.10	.76	1.96	1.69	1.25	8.04	8.00	2.63	2.79	1.75
MAX	3.1	.77	9.6	2.8	26	7.7	2.1	111	53	6.6	18	6.7
MIN	.53	.56	.56	.56	.59	.61	.85	.84	1.3	1.1	.92	.90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	1.00	1.42	1.31	5.72	12.6	13.0	8.60	7.64	8.59	3.86	3.18	1.19
MAX	1.25	2.02	1.92	11.1	21.5	30.5	17.8	8.84	16.7	8.27	5.75	1.75
(WY)	1998	1999	1998	1999	1999	1998	1998	1999	1998	1998	1998	2000
MIN	.75	.62	.91	.76	1.96	1.69	1.25	6.04	2.66	2.24	1.22	.56
(WY)	2000	2000	1999	2000	2000	2000	2000	1998	1999	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	5.26		2.61		5.73	
HIGHEST ANNUAL MEAN					9.20	1998
LOWEST ANNUAL MEAN					2.61	2000
HIGHEST DAILY MEAN	186	Feb 7	111	May 7	208	Mar 20 1998
LOWEST DAILY MEAN	.53	Several Days	.53	Oct 2,6,7	.53	Several Days 1999-2000
ANNUAL SEVEN-DAY MINIMUM	.54	Sep 22	.54	Oct 1	.54	Sep 22 1999
INSTANTANEOUS PEAK FLOW[a]	---		583	May 7	583	May 7 2000
INSTANTANEOUS PEAK STAGE	---		9.31	May 7	9.31	May 7 2000
INSTANTANEOUS LOW FLOW	---		.53	Oct 1,2,6-8	.53	Sep 18 Oct 1,2,6-8 1999
10 PERCENT EXCEEDS	10		4.0		12	
50 PERCENT EXCEEDS	1.2		1.2		1.5	
90 PERCENT EXCEEDS	.57		.58		.65	

[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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
JAN												
06...	0730	.75	9.4	79	7.6	496	8.0	K70	K35	220	183	181
FEB												
29...	0835	.97	8.8	79	7.5	497	10.7	84	100	88	169	168
MAY												
07...	1008	516	7.6	78	7.0	111	17.3	20000	22000	120000	45	44
JUN												
14...	1055	1.7	9.3	95	7.5	518	16.4	K3000	K3600	K3300	167	170
24...	0533	41	7.8	82	7.4	336	17.9	24000	28000	48000	105	107
AUG												
01...	0850	2.4	9.1	90	7.2	495	15.5	2600	4200	4400	162	162

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	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, ORGANIC TOTAL (mg/L as N) (00605)	NITRO-GEN, TOTAL (mg/L as N) (00600)	NITRO-GEN, AMMONIA TOTAL (mg/L as NH_4) (71845)
JAN												
06...	221	0	220	65.0	13.0	41.0	.36	.15	3.4	.21	3.8	.19
FEB												
29...	206	0	230	70.0	13.0	65.0	.34	.02	2.8	.32	3.1	.03
MAY												
07...	53	0	71	21.0	4.40	--	7.0	.15	.7	6.8	7.7	.19
JUN												
14...	207	0	210	65.0	11.0	--	.28	.06	1.9	.22	2.2	.08
24...	130	0	130	40.0	6.20	--	.63	.13	1.2	.50	1.8	.17
AUG												
01...	198	0	190	60.0	10.0	--	<.20	.04	8.2	--	--	.05

DATE	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, TOTAL (mg/L as NO_3) (71887)	PHOS-PHATE, TOTAL (mg/L as PO_4) (00650)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	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)
JAN												
06...	<.01	16.6	--	E.220	.230	8.9	7	41	<1.0	<1	<1.0	<1.0
FEB												
29...	<.01	13.9	.613	.200	.190	9.9	4	15	<1.0	<1	<1.0	<1.0
MAY												
07...	<.01	34.0	2.18	.710	1.30	9.6	2600	5500	1.7	<1	<1.0	4.3
JUN												
14...	<.01	9.6	--	E.170	.170	10	8	83	<1.0	<1	<1.0	<1.0
24...	<.01	8.1	.859	.280	.320	8.9	50	258	<1.0	<1	<1.0	<1.0
AUG												
01...	E.01	--	--	E.170	.170	18	4	20	<1.0	<1	<1.0	2.5

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07019090 WILLIAMS CREEK NEAR PEERLESS PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	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)	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)	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)
JAN												
06...	1	30	<1	13	<.1	<1	<1.0	<1	19	--	--	--
FEB												
29...	1	10	<1	16	<.1	<1	<1.0	<1	8	--	--	--
MAY												
07...	8	5800	16	820	.1	8	<1.0	<1	69	<.10	<.10	<.10
JUN												
14...	1	90	<1	17	<.1	1	<1.0	<1	3	--	--	--
24...	3	210	1	14	<.1	2	<1.0	<1	120	<.10	<.10	<.10
AUG												
01...	1	20	<1	8	<.1	<1	<1.0	<1	6	--	--	--

DATE	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (µg/L) (34556)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	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-NAPH-THALENE TOTAL (µg/L) (34581)
MAY												
07...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2
JUN												
24...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2

DATE	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 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)
MAY												
07...	<2	<3	<2	<3	<2	<2	<3	<2	<2	<.013	<2	<2.2
JUN												
24...	<2	<3	<2	<3	<2	<2	<3	<2	<2	<.013	<2	<2.2

DATE	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)	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)
MAY												
07...	<.10	<.10	<2	<.10	<.10	<40	<3	<3	<3	<2	<3	<3
JUN												
24...	<.10	<.10	<2	<.10	<.10	<40	<3	<3	<3	<2	<3	<3

DATE	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)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)	CHRY-SENE TOTAL (µg/L) (34320)
MAY											
07...	<2	<2	E10	<.20	<.20	<.1	<.10	<.2	<.10	<.01	<3
JUN											
24...	<2	<2	<10	<.20	<.20	<.1	<.10	<.2	<.10	<.01	<3

E--Laboratory estimated value.

07019090 WILLIAMS CREEK NEAR PEERLESS PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	CYCLOPENTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)
MAY											
07...	<.10	<2	<.02	.15	<.10	<.2	<.009	<2	<.2	<2	<3
JUN											
24...	<.10	<2	<.02	.18	<.10	<.2	<.009	<2	<.2	<2	<3

DATE	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)	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)	ETHION, TOTAL (µg/L) (39398)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FLUOR-ANTHENE TOTAL (µg/L) (34376)
MAY											
07...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	<2
JUN											
24...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	<2

DATE	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	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)
MAY											
07...	<2	<.01	<.10	<.009	<.011	<2	<2.6	<3	E1	<.012	<.03
JUN											
24...	<2	<.01	<.10	<.009	<.011	<2	<2.6	<3	E1	<.012	<.03

DATE	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	MIREX, TOTAL (µg/L) (39755)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	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)
MAY											
07...	<.01	<.01	E.1	<.2	<.01	<.20	<2.1	<4	<3	<2	<3
JUN											
24...	<.01	<.01	<.2	<.2	<.01	<.20	<2.1	<4	<3	<2	<3

DATE	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	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)	PCNS UNFILT RECOVER (µg/L) (39250)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PER-THANE TOTAL (µg/L) (39034)	PHENAN-THRENE TOTAL (µg/L) (34461)
MAY											
07...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	E1	<.1	<2
JUN											
24...	<.10	<.014	<.016	<.017	<3	<.01	<.1	--	E1	--	<2

DATE	PHENOL TOTAL (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TOX-APHENE, TOTAL (µg/L) (39400)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	TOTAL TRI-THION (µg/L) (39786)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
MAY											
07...	<3	<.02	<2	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2
JUN											
24...	<3	<.02	<2	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2

E--Laboratory estimated value.

07019120 FISHPOT CREEK AT VALLEY PARK, MO

LOCATION.--Lat 38°33'07", long 90°30'41", 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.--Estimated daily discharges: Jan. 26-29, 31, and Feb. 1. Water-discharge records fair.

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	.07	1.2	.05	.06	.14	.31	.22	.07	.04	2.3	2.4	.09
2	.07	.73	.04	.06	.16	.31	.22	.20	.03	40	.89	.04
3	.10	.38	.06	1.1	.19	.31	.19	.15	.02	8.1	.74	.01
4	.10	.29	.09	.44	.25	.22	.16	.14	.02	2.0	.64	.01
5	.08	.23	.35	.32	.25	.21	.16	.15	.03	1.4	.60	.00
6	.08	.19	.14	.25	.25	.19	.16	.15	.01	1.1	.50	.00
7	.07	.18	.10	.21	.23	.19	3.9	690	.01	.93	.91	.00
8	9.6	.14	.08	.25	.21	.21	.30	7.7	.00	.75	89	.00
9	2.4	.11	16	.22	.18	.23	.22	2.7	.00	.64	1.2	.00
10	.35	.10	4.6	.21	.16	.22	.20	1.3	.00	.58	.56	.00
11	.27	.08	.25	.20	.13	.37	.18	.97	.01	.54	.40	4.0
12	.27	.08	.25	.19	.12	.33	.15	.70	1.4	.70	.33	.59
13	.22	.07	.14	.18	.30	.27	.12	.58	.17	.61	.27	.37
14	.16	.07	.13	.18	.23	.25	.12	.46	.04	.24	.21	.30
15	.14	.06	.11	.16	.19	.22	.12	.37	.02	.13	.12	.22
16	.11	.06	.10	.16	.17	.22	.16	.31	6.7	.07	.09	.11
17	.11	.06	.11	.30	.41	.22	.11	.27	3.7	.23	6.9	.07
18	.08	.06	.10	.26	518	.27	.08	.24	.12	.29	14	.04
19	.08	.05	.08	.21	17	.48	.09	.24	.05	.60	.66	.02
20	.07	.05	.08	.19	3.3	3.8	.10	.19	18	.08	8.0	.01
21	.07	.04	.07	.19	1.4	.60	.07	.15	15	.01	.79	.01
22	.05	.04	.07	.19	.91	.44	.07	.14	.47	.00	.47	.00
23	.05	.22	.08	.17	.61	.39	.07	.27	.78	.00	.34	.21
24	.05	.13	.07	.16	.53	.35	.21	.14	710	.00	1.0	43
25	.05	.09	.07	.16	.95	.31	.09	.05	22	.00	.67	1.0
26	.04	.07	.06	.15	2.2	9.0	.07	22	149	.00	.36	.51
27	.04	.06	.06	.14	.67	3.2	.13	137	7.3	.00	.28	.32
28	.04	.05	.06	.14	.27	.39	.10	8.2	4.0	.16	.14	.27
29	.04	.04	.06	.15	.26	.30	.08	.15	3.1	16	.17	.23
30	.03	.04	.06	.16	---	.25	.07	.08	2.5	1.5	.27	.18
31	.03	---	.06	.15	---	.22	---	.06	---	12	.17	---
MEAN	.48	.17	.76	.22	19.0	.78	.26	28.2	31.5	2.93	4.29	1.72
MAX	9.6	1.2	16	1.1	518	9.0	3.9	690	710	40	89	43
MIN	.03	.04	.04	.06	.12	.19	.07	.05	.00	.00	.09	.00
IN.	.06	.02	.09	.03	2.13	.09	.03	3.40	3.67	.35	.52	.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	1.29	6.52	.86	5.87	16.3	7.70	3.27	9.94	14.4	4.47	2.98	3.82
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	13.1	.78	.26	1.48	.80	.83	.38	.069
(WY)	1999	2000	1999	2000	1998	2000	2000	1997	1999	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL MEAN	3.78		7.45		6.15	
HIGHEST ANNUAL MEAN					7.88	1998
LOWEST ANNUAL MEAN					3.90	1999
HIGHEST DAILY MEAN	395	Feb 7	710	Jun 24	710	Jun 24 2000
LOWEST DAILY MEAN	.00	Sep 9-11	.00	Jun 8-10, Jul 22-27, Sep 5-10	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	.02	Sep 6	.00	Jul 21	.00	At Times
INSTANTANEOUS PEAK FLOW[a]	---		5320	Jun 24	5320	Jun 24 2000
INSTANTANEOUS PEAK STAGE	---		10.08	Jun 24	10.08	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Many Years
ANNUAL RUNOFF (INCHES)	5.36		10.59		8.73	
10 PERCENT EXCEEDS	2.8		2.6		5.1	
50 PERCENT EXCEEDS	.25		.19		.25	
90 PERCENT EXCEEDS	.06		.04		.00	

[a]From rating extended above 995 ft^3/s.

MERAMEC RIVER BASIN

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
JAN												
05...	1420	.32	9.5	72	7.6	374	4.6	180	K250	210	137	138
FEB												
18...	0302	237	12.8	95	7.0	226	2.8	12000	12000	42000	44	64
28...	1610	.27	7.8	70	7.6	686	11.4	K2	660	K35	140	140
MAY												
07...	0235	538	7.7	83	7.3	143	19.0	62000	70000	150000	60	55
JUN												
14...	1545	.04	6.1	74	7.7	440	25.0	220	400	230	133	135
JUL												
31...	1415	.79	5.5	65	7.2	471	24.1	200	260	150	135	140

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	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, ORGANIC TOTAL (mg/L as N) (00605)	NITRO-GEN, TOTAL (mg/L as N) (00600)	NITRO-GEN, AMMONIA TOTAL (mg/L as NH_4) (71845)
JAN												
05...	169	0	180	56.0	8.60	33.0	.74	.65	.6	.09	1.4	.84
FEB												
18...	78	0	42	13.0	2.30	--	5.9	.31	.7	5.6	6.6	.40
28...	170	0	200	64.0	9.60	95.0	<.20	.03	.7	--	--	.04
MAY												
07...	67	0	85	27.0	4.30	--	4.3	.15	.5	4.2	4.8	.19
JUN												
14...	165	0	150	49.0	6.90	--	<.20	.06	.4	--	--	.08
JUL												
31...	171	0	170	54.0	7.80	--	.22	.05	1.1	.17	1.3	.06

DATE	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, TOTAL (mg/L as NO_3) (71887)	PHOS-PHATE, TOTAL (mg/L as PO_4) (00650)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	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)
JAN												
05...	<.01	6.0	--	E.100	.100	6.2	2	25	<1.0	<1	<1.0	<1.0
FEB												
18...	<.01	29.3	--	E.850	1.70	8.7	2800	1800	1.5	<1	<1.0	2.6
28...	<.01	--	.491	.160	.150	7.6	6	14	<1.0	<1	<1.0	<1.0
MAY												
07...	<.01	21.4	--	E.890	1.60	5.3	2800	3300	1.8	<1	<1.0	3.7
JUN												
14...	<.01	--	--	E.160	.170	5.4	6	65	1.1	<1	<1.0	<1.0
JUL												
31...	E.01	5.8	--	E.180	.180	15	2	9	1.0	<1	<1.0	14.0

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07019120 FISHPOT CREEK AT VALLEY PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	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)	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)	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)
JAN												
05...	<1	20	<1	19	<.1	<1	<1.0	<1	130	--	--	--
FEB												
18...	4	1700	5	100	.2	3	<1.0	<1	120	<.10	<.10	<.10
28...	1	10	<1	72	<.1	<1	<1.0	<1	55	--	--	--
MAY												
07...	8	4200	12	650	<.1	7	<1.0	<1	69	<.10	<.10	<.10
JUN												
14...	2	80	<1	62	<.1	<1	<1.0	<1	5	--	--	--
JUL												
31...	1	E3	<1	49	--	<1	<1.0	<1	3	--	--	--

DATE	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (µg/L) (34556)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	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-NAPH-THALENE TOTAL (µg/L) (34581)
FEB												
18...	E1	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2
MAY												
07...	E1	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2

DATE	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 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)
FEB												
18...	<2	<3	<2	<3	<2	<2	E1	E1	E1	<.013	E1	<2.2
MAY												
07...	<2	<3	<2	<3	<2	<2	E1	E1	E1	<.013	E1	<2.2

DATE	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)	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)
FEB												
18...	<.10	<.10	<2	<.10	<.10	<40	E1	E2	E1	E1	E1	<3
MAY												
07...	<.10	<.10	<2	<.10	<.10	<40	E1	E1	E1	E1	E1	<3

DATE	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)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)	CHRY-SENE TOTAL (µg/L) (34320)
FEB											
18...	<2	<2	<10	<.20	<.20	.1	<.10	<.2	<.10	.03	E2
MAY											
07...	<2	<2	<10	<.20	<.20	<.1	<.10	<.2	<.10	.04	E1

E--Laboratory estimated value.

07019120 FISHPOT CREEK AT VALLEY PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	CYCLOPENTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHALATE TOTAL (µg/L) (34336)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DI-METHYL PHTHALATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHALATE TOTAL (µg/L) (39110)
FEB 18...	<.10	<2	<.02	.07	<.10	<.2	<.009	<2	<.2	<2	<3
MAY 07...	<.10	<2	<.02	.96	<.10	<.2	<.009	<2	<.2	<2	<3

DATE	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)	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)	ETHION, TOTAL (µg/L) (39398)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FLUORANTHENE TOTAL (µg/L) (34376)
FEB 18...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	3
MAY 07...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	E2

DATE	FLUORENE TOTAL (µg/L) (34381)	FONOFOS (DYFONATE) WATER WHOLE TOT.REC (µg/L) (82614)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEPTACHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTACHLOR, TOTAL (µg/L) (39410)	HEXACHLOROBENZENE TOTAL (µg/L) (39700)	HEXACHLOROBUTADIENE TOTAL (µg/L) (39702)	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)
FEB 18...	<.02	<.01	<.10	<.009	<.009	<2	<2.6	E2	E1	<.012	<.03
MAY 07...	<.02	<.01	<.10	<.009	<.011	<2	<2.6	E1	E1	<.012	E.02

DATE	METHOXYCHLOR, TOTAL (µg/L) (39480)	METHYL PARATHION, TOTAL (µg/L) (39600)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLORIDE TOTAL (µg/L) (34423)	MIREX, TOTAL (µg/L) (39755)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTHALENE TOTAL (µg/L) (34696)	N-BUTYL BENZYL PHTHALATE 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)
FEB 18...	<.01	<.01	.3	<.2	<.01	<.20	E.1	<4	<3	<2	<3
MAY 07...	<.01	<.01	.3	<.2	<.01	<.20	E.1	<4	<3	<2	<3

DATE	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	P,P'-DDD UNFILT RECOVER (µg/L) (39360)	P,P'-DDE, TOTAL (µg/L) (39365)	P,P'-DDT UNFILT RECOVER (µg/L) (39370)	PARACHLORO-META CRESOL TOTAL (µg/L) (34452)	PARATHION, TOTAL (µg/L) (39540)	PCB, TOTAL (µg/L) (39516)	PCNS UNFILT RECOVER (µg/L) (39250)	PENTACHLOROPHENOL TOTAL (µg/L) (39032)	PERTHANE TOTAL (µg/L) (39034)	PHENANTHRENE TOTAL (µg/L) (34461)
FEB 18...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	E2	<.1	E1
MAY 07...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	E1	<.1	E1

DATE	PHENOL TOTAL (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	STYRENE TOTAL (µg/L) (77128)	TETRACHLOROETHYLENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TOXAPHENE, TOTAL (µg/L) (39400)	TRICHLOROETHYLENE TOTAL (µg/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (µg/L) (34488)	TOTAL TRITHION (µg/L) (39786)	VINYL CHLORIDE TOTAL (µg/L) (39175)
FEB 18...	<3	<.02	E2	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2
MAY 07...	<3	<.02	E2	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2

E--Laboratory estimated value.

07019150 GRAND GLAIZE CREEK NEAR MANCHESTER, MO

LOCATION.--Lat 38°35'33", long 90°29'35", 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.--Estimated daily discharges: July 26 to Aug. 27. Records fair except for estimated daily discharges and those below 5 ft^3/s and above 500 ft^3/s, which are poor.

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	.16	.25	1.5	.19	.29	.69	.38	.24	.45	3.7	.80	.27
2	.17	13	.27	.32	.25	.56	.40	.27	.43	26	.50	.25
3	2.2	.39	.98	15	.31	7.5	.41	.33	.38	1.9	.30	.21
4	.71	.31	1.6	.42	.31	.79	.39	.23	8.3	.40	.18	.15
5	.22	.29	9.8	.24	.20	.55	.38	.20	5.6	.30	.24	.09
6	.16	.27	.43	.21	.18	.39	.40	.95	.43	.28	.25	.15
7	.14	.25	.27	.20	.18	.53	38	405	.36	.29	.22	.05
8	23	.24	.23	1.0	.17	.44	1.2	32	.35	.25	80	.05
9	11	.24	32	.31	.17	.48	.40	21	.39	.22	3.5	.11
10	.43	.26	7.8	.22	.20	.47	.33	8.9	.43	.22	1.0	1.0
11	.24	.29	1.4	.19	.20	16	.30	3.3	13	.22	.30	.46
12	.23	.30	2.5	.18	.17	8.8	.27	1.6	17	.82	.24	20
13	.26	.31	.35	.21	1.7	3.0	.28	.84	1.9	.40	.17	.47
14	.22	.30	.27	.17	.30	.88	.31	.60	5.8	.50	.15	.38
15	.23	.33	.24	.16	.21	.60	.28	.43	.55	.24	.17	.31
16	.35	.28	.23	.16	.19	.64	4.7	.39	22	.15	.16	.25
17	.71	.26	.22	4.3	9.6	.53	.55	.61	28	4.0	.30	.23
18	.24	.24	.20	.53	143	3.6	.25	.98	1.2	1.9	20	.19
19	.20	.27	.20	.27	5.0	24	.63	1.8	.45	1.9	.30	.13
20	.18	.27	.19	.20	1.1	31	.87	.60	13	.31	20	.11
21	.16	.26	.17	.18	.78	1.5	.27	.28	29	.25	.50	.29
22	.17	.26	.17	.19	.65	.67	.24	5.2	.63	.21	.20	.24
23	.14	10	.17	.19	.56	.55	5.5	16	.42	.15	.15	.14
24	.15	.47	.27	.37	.57	.99	20	.54	562	.13	20	6.7
25	.16	.23	.23	.71	7.2	.52	2.8	.25	15	.08	.40	41
26	.16	.34	.20	.24	24	28	.32	48	98	.15	.35	.56
27	.16	.19	.18	.22	4.2	9.8	6.5	110	1.8	.20	.51	.48
28	.17	.16	.18	.23	.76	.66	.55	20	.59	1.0	.49	.39
29	.21	.24	.24	.21	.77	.48	.40	1.1	.48	27	.37	.55
30	.22	.28	.22	.29	---	.44	.25	.61	1.8	2.0	.33	.47
31	.25	---	.20	.34	---	.40	---	.48	---	25	.31	---
MEAN	1.39	1.03	2.03	.89	7.01	4.69	2.92	22.0	27.7	3.23	4.92	2.52
MAX	23	13	32	15	143	31	38	405	562	27	80	41
MIN	.14	.16	.17	.16	.17	.39	.24	.20	.35	.08	.15	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	1.76	2.43	1.48	6.69	10.4	10.2	6.79	10.4	12.8	4.13	3.95	1.75
MAX	2.34	3.62	2.03	13.0	12.6	19.9	9.61	22.0	27.7	9.57	5.92	2.67
(WY)	1999	1999	1998	1999	1999	1998	1999	2000	2000	1998	1998	1998
MIN	1.39	1.03	.38	.89	7.01	4.69	2.92	3.61	2.13	.43	1.09	.30
(WY)	2000	2000	1999	2000	2000	2000	2000	1998	1997	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	4.81		6.67		6.43	
HIGHEST ANNUAL MEAN					7.66	1998
LOWEST ANNUAL MEAN					4.97	1999
HIGHEST DAILY MEAN	215	Feb 7	562	Jun 24	562	Jun 24 2000
LOWEST DAILY MEAN	.00	Sep 6-11	.05	Sep 7,8	.00	1997-1999
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 5	.12	Sep 3	.00	At Times
INSTANTANEOUS PEAK FLOW[a]	---		5430	Jun 24	5430	Jun 24 2000
INSTANTANEOUS PEAK STAGE	---		9.37	Jun 24	9.37	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.03	Sep 7	.00	1997-1999
10 PERCENT EXCEEDS	9.1		13		11	
50 PERCENT EXCEEDS	.40		.35		.47	
90 PERCENT EXCEEDS	.09		.17		.09	

[a]From rating extended above 466 ft^3/s.

07019175 SUGAR CREEK AT KIRKWOOD, MO

LOCATION.--Lat 38°34'36", long 90°27'52", 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.--Estimated daily discharges: Jan. 25-31. Records fair except for estimated daily discharges and those above 300 ft^3/s and below 5 ft^3/s, which are poor

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	.09	5.9	.60	.28	.27	1.4	1.3	.32	.62	1.2	2.0	.31
2	.07	.91	.59	.32	.25	1.4	1.3	.38	.55	4.0	.86	.28
3	.57	.29	.86	22	.85	2.5	1.1	.33	.50	1.9	.67	.30
4	.91	.41	1.0	1.4	1.0	2.4	1.0	.29	2.4	.84	.57	.33
5	.39	.35	13	.52	.46	1.8	.96	.25	1.6	.67	.53	.33
6	.20	.35	.77	.43	.39	1.4	.88	.37	.50	.60	.50	.26
7	.16	.36	.48	.32	.34	1.3	13	465	.41	.57	1.7	.27
8	20	.42	.40	.88	.39	1.2	1.0	6.9	.39	.52	74	.27
9	18	.46	26	.46	.44	1.0	.79	3.2	.38	.50	1.6	.27
10	.45	.52	19	.17	.58	1.0	.68	1.7	.43	.49	.82	.47
11	.47	.50	.98	.18	.57	3.8	.62	1.2	3.1	.50	.64	.35
12	.42	.50	2.8	.22	.48	2.0	.60	1.2	3.4	18	.51	6.8
13	.28	.51	.53	.21	3.2	1.7	.62	1.1	1.2	3.2	.49	.51
14	.21	.51	.43	.21	.63	1.4	.61	.55	.60	.75	.48	.37
15	.32	.45	.47	.23	.33	1.3	.56	.45	.48	.58	.43	.38
16	.32	.43	.48	.22	.26	1.2	1.3	.41	7.5	.50	.42	.31
17	.50	.42	.49	2.8	6.5	1.2	.65	.90	8.3	8.8	4.1	.30
18	.53	.43	.49	.85	119	2.1	.41	1.1	1.4	1.2	4.6	.30
19	.33	.36	.45	.22	3.1	6.0	.37	.98	.68	2.0	.94	.27
20	.61	.32	.57	.40	2.0	10	.75	.52	6.5	.66	6.0	.28
21	.51	.31	.51	.36	1.8	2.1	.75	.46	8.3	.54	1.0	.35
22	.52	.32	.48	.41	1.6	1.4	.51	1.5	.65	.48	.74	.34
23	.50	1.4	.47	.41	1.5	1.3	1.5	2.0	.42	.44	.51	.56
24	.59	1.0	.48	.41	1.6	1.3	5.8	.82	460	.41	5.6	3.7
25	.56	.80	.44	.60	2.0	1.2	.90	.29	7.6	.41	.70	14
26	.49	.69	.39	.40	5.6	7.8	.49	22	49	.39	.48	.84
27	.45	.64	.37	.30	2.0	4.1	3.0	55	4.1	.37	.47	.95
28	.48	.65	.35	.32	1.5	1.9	.64	7.3	2.6	14	.41	.61
29	.44	.62	.35	.30	1.2	1.8	.42	1.9	1.2	20	.37	.38
30	.42	.61	.35	.32	---	1.6	.36	1.0	1.2	2.1	.36	.42
31	.41	---	.33	.40	---	1.5	---	.75	---	16	.34	---
MEAN	1.62	.71	2.42	1.18	5.51	2.33	1.43	18.7	19.2	3.31	3.64	1.17
MAX	20	5.9	26	22	119	10	13	465	460	20	74	14
MIN	.07	.29	.33	.17	.25	1.0	.36	.25	.38	.37	.34	.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	1.34	1.99	1.79	5.37	9.76	8.62	5.15	9.21	13.2	4.66	2.76	.79
MAX	1.62	2.99	2.42	10.1	16.2	19.4	7.97	18.7	19.2	10.6	3.64	1.17
(WY)	2000	1999	2000	1999	1999	1998	1998	2000	2000	1998	2000	2000
MIN	1.19	.71	.77	1.18	5.51	2.33	1.43	2.31	2.54	.37	.63	.20
(WY)	1998	2000	1999	2000	2000	2000	2000	1998	1999	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	4.56		5.09		5.47	
HIGHEST ANNUAL MEAN					6.73	1998
LOWEST ANNUAL MEAN					4.57	1999
HIGHEST DAILY MEAN	332	Feb 7	465	May 7	465	May 7 2000
LOWEST DAILY MEAN	.02	Sep 26	.07	Oct 2	.02	Sep 26 1999
ANNUAL SEVEN-DAY MINIMUM	.04	Sep 5	.21	Jan 10	.04	Sep 5 1999
INSTANTANEOUS PEAK FLOW[a]	---		1620	Jun 24	1620	Jun 24 2000
INSTANTANEOUS PEAK STAGE	---		17.50	Jun 24	17.50	Jun 24 2000
INSTANTANEOUS LOW FLOW	---		.06	Oct 2	.01	Sep 25,26 1999
10 PERCENT EXCEEDS	6.1		5.6		6.7	
50 PERCENT EXCEEDS	.69		.57		.85	
90 PERCENT EXCEEDS	.14		.31		.22	

[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", 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. No record available July 1 to Sept. 28, 1999 due to vandalism.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage unknown.

REMARKS.--Estimated daily discharges: April 3, 6-9, 11, 12, 16-18, May 13-15, 18-22, June 2-6, 9-14, 16-19, 21, 26 and 27. Water-dicharge records fair except for those below 10 ft^3/s and the period April 2 to June 29, which are poor.

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	.33	33	3.7	1.8	3.1	5.0	2.3	1.3	1.7	22	15	.82
2	.28	19	2.4	1.8	2.3	2.7	2.0	1.4	1.6	50	6.3	.77
3	.84	1.1	7.4	61	3.2	11	1.9	1.7	1.5	29	4.1	.81
4	4.6	.90	8.1	13	7.3	5.9	1.8	1.2	36	9.2	2.6	.97
5	.45	.94	49	3.5	4.9	3.0	1.7	1.0	10	6.9	3.4	1.7
6	.29	.78	9.7	1.8	4.4	1.9	1.7	10	2.0	4.4	3.5	.79
7	.23	.75	2.8	1.0	4.0	1.6	60	733	1.4	3.7	2.9	.70
8	72	.69	1.3	5.0	3.3	1.7	6.0	60	1.3	3.0	258	2.2
9	59	.62	79	7.2	2.5	1.5	1.7	30	1.5	2.5	23	3.3
10	3.2	.58	75	2.5	3.0	1.4	1.6	10	1.7	2.1	9.9	9.0
11	.61	.57	13	1.4	3.0	21	1.5	6.0	16	2.0	3.8	5.0
12	.54	.58	20	1.3	2.1	17	1.4	3.6	30	51	2.7	61
13	.52	.60	6.8	1.1	14	13	1.5	2.2	4.0	27	2.0	3.7
14	.33	.74	4.9	1.2	8.4	5.2	1.7	1.7	10	11	2.0	2.6
15	.45	.70	4.4	1.4	3.2	3.3	1.5	1.4	1.5	4.1	2.4	.59
16	.57	.68	3.1	1.7	1.4	2.3	7.0	1.2	40	2.6	2.1	.54
17	5.8	.66	1.7	14	24	2.0	2.0	1.6	50	43	11	1.1
18	1.4	.59	2.4	15	449	5.3	1.3	2.0	3.0	12	44	.84
19	.65	.59	1.5	4.3	22	40	3.0	4.0	1.5	20	4.1	.90
20	1.0	.55	1.0	2.7	10	70	7.8	1.5	25	5.1	44	.63
21	1.2	.56	.85	1.4	6.7	14	1.4	1.1	40	3.7	8.0	1.1
22	1.0	.59	.89	1.0	5.0	5.8	1.2	6.0	2.0	2.4	3.8	.93
23	.93	28	.99	1.0	4.0	3.2	2.3	40	1.5	1.4	2.0	.80
24	.87	8.6	.84	.77	3.8	2.4	30	2.0	1010	1.2	44	31
25	1.0	1.7	1.0	4.4	4.8	2.2	5.0	1.0	42	1.9	5.6	111
26	.60	1.0	1.3	2.4	40	36	1.7	61	200	1.5	4.4	13
27	.43	1.3	2.0	.64	15	49	13	200	5.0	.91	6.1	3.8
28	.56	2.6	.83	.67	5.5	7.6	2.0	30	1.6	70	2.5	1.8
29	.79	.61	1.0	1.3	3.8	4.1	1.7	3.0	1.4	101	.97	1.7
30	.79	.85	1.3	1.4	---	3.3	1.4	2.0	13	20	.86	2.4
31	.79	---	2.3	2.3	---	2.7	---	1.8	---	52	.82	---
MEAN	5.23	3.68	10.0	5.16	22.9	11.1	5.64	39.4	51.9	18.3	17.0	8.85
MAX	72	33	79	61	449	70	60	733	1010	101	258	111
MIN	.23	.55	.83	.64	1.4	1.4	1.2	1.0	1.3	.91	.82	.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	6.29	8.33	8.06	24.7	40.9	37.9	24.0	25.7	35.0	20.2	16.8	6.47
MAX	7.99	11.5	10.0	47.2	64.3	78.5	35.3	39.4	67.2	39.4	19.2	8.85
(WY)	1998	1999	2000	1999	1999	1998	1998	2000	1998	1998	1998	2000
MIN	5.23	3.68	5.36	5.16	22.9	11.1	5.64	12.5	8.40	2.86	14.1	5.04
(WY)	2000	2000	1999	2000	2000	2000	2000	1998	1999	1997	1997	1998

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	16.6		22.5	
HIGHEST ANNUAL MEAN			28.4	1998
LOWEST ANNUAL MEAN			16.6	2000
HIGHEST DAILY MEAN	1010	Jun 24	1150	Feb 7 1999
LOWEST DAILY MEAN	.23	Oct 7	.21	Jun 22 1999
ANNUAL SEVEN-DAY MINIMUM	.60	Nov 16	.26	Jun 16 1999
INSTANTANEOUS PEAK FLOW[a]	5100	Jun 24	5100	Jun 24 2000
INSTANTANEOUS PEAK STAGE[b]	14.95	Jun 24	14.95	Jun 24 2000
INSTANTANEOUS LOW FLOW	.22	Oct 7,8	.01	Sep 30 1997
10 PERCENT EXCEEDS	36		40	
50 PERCENT EXCEEDS	2.4		4.3	
90 PERCENT EXCEEDS	.73		1.0	

[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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
DEC												
05...	0413	141	6.7	64	7.2	878	12.8	6700	6600	7700	136	142
JAN												
05...	1255	3.1	12.4	90	7.7	541	2.8	2700	K2600	3700	117	118
FEB												
28...	1440	5.2	11.3	104	8.0	980	12.2	120	K1200	K16	139	136
MAR												
26...	2233	375	9.3	92	7.7	1130	14.5	24000	23000	15000	143	146
JUN												
14...	1440	e1.0	5.1	63	7.8	634	26.5	1000	720	410	111	112
JUL												
31...	1245	5.8	5.8	68	7.5	618	23.8	1600	K3200	670	135	136

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	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, ORGANIC TOTAL (mg/L as N) (00605)	NITRO-GEN, TOTAL (mg/L as N) (00600)	NITRO-GEN, AMMONIA TOTAL (mg/L as NH_4) (71845)
DEC												
05...	173	0	220	62.0	16.0	--	.85	.04	.2	.81	1.1	.05
JAN												
05...	144	0	180	51.0	13.0	110	.67	.09	.6	.58	1.3	.12
FEB												
28...	170	0	220	62.0	15.0	200	.51	.04	.5	.47	1.0	.05
MAR												
26...	178	0	--	--	--	--	2.3	.11	.3	2.2	2.6	.14
JUN												
14...	136	0	170	48.0	11.0	--	.46	.08	.3	.38	.73	.10
JUL												
31...	166	0	190	55.0	13.0	--	.55	.13	--	.42	--	.17

DATE	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, TOTAL (mg/L as NO_3) (71887)	PHOS-PHATE, TOTAL (mg/L as PO_4) (00650)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	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)
DEC												
05...	<.01	4.8	--	E.190	.300	15	140	116	1.7	<1	<1.0	5.6
JAN												
05...	<.01	5.8	--	E.090	.140	4.8	22	168	1.1	<1	<1.0	<1.0
FEB												
28...	<.01	4.5	.245	.080	.100	2.9	17	161	1.0	<1	<1.0	<1.0
MAR												
26...	E.01	11.4	--	E.300	.520	5.3	880	8	1.2	<1	<1.0	<1.0
JUN												
14...	<.01	3.2	--	E.100	.140	3.6	21	57	2.2	<1	<1.0	1.3
JUL												
31...	E.01	--	--	E.150	.180	8.3	40	57	2.1	<1	<1.0	2.3

e--Estimated discharge value.
K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07019185 GRAND GLAIZE CREEK NEAR VALLEY PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	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)	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)	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)
DEC 05...	<1	120	<1	160	<.1	2	<1.0	<1	56	<.10	<.10	<.10
JAN 05...	2	150	<1	100	<.1	1	<1.0	<1	56	--	--	--
FEB 28...	3	120	<1	96	<.1	2	<1.0	<1	31	--	--	--
MAR 26...	2	10	<1	160	<.1	2	<1.0	<1	4	<.10	<.10	<.10
JUN 14...	2	60	<1	110	<.1	2	<1.0	<1	44	--	--	--
JUL 31...	2	80	<1	110	<.1	2	<1.0	<1	80	--	--	--

DATE	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (µg/L) (34556)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	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-NAPH-THALENE TOTAL (µg/L) (34581)
DEC 05...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2
MAR 26...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2

DATE	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 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)
DEC 05...	<2	<2	<2	<3	<2	<2	<3	<2	<2	<.013	<2	<2.2
MAR 26...	<2	E1	<2	<3	<2	<2	E1	<2	<2	<.013	<2	<2.2

DATE	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)	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)
DEC 05...	<.10	<.10	<2	<.10	<.10	<40	<3	<3	<3	<2	<3	<3
MAR 26...	<.10	<.10	<2	<.10	<.10	<40	E1	E1	E1	<2	<3	<3

DATE	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)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)	CHRY-SENE TOTAL (µg/L) (34320)
DEC 05...	<2	<2	<20	<.20	<.20	<.1	<.10	<.2	<.10	<.01	E.16
MAR 26...	<2	<2	<10	<.20	<.20	<.1	<.10	<.2	<.10	E.01	E.34

E--Laboratory estimated value.

07019185 GRAND GLAIZE CREEK NEAR VALLEY PARK, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	CYCLOPENTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (µg/L) (34336)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DI-METHYL PHTHAL-ATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (µg/L) (39110)
DEC 05...	<.10	<2	<.02	.03	<.10	<.2	<.009	<2	<.2	<2	<3
MAR 26...	<.10	<2	<.02	.08	<.10	<.2	<.009	<2	<.2	<2	<3

DATE	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)	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)	ETHION, TOTAL (µg/L) (39398)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FLUOR-ANTHENE TOTAL (µg/L) (34376)
DEC 05...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	E1
MAR 26...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	E1

DATE	FLUOR-ENE TOTAL (µg/L) (34381)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (µg/L) (82614)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEPTA-CHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTA-CHLOR, TOTAL (µg/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (µg/L) (39700)	HEXA-CHLORO-BUT-ADIENE TOTAL (µg/L) (39702)	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)
DEC 05...	<2	<.01	<.10	<.009	<.011	<2	<2.6	E1	<2	<.012	E.01
MAR 26...	<2	<.01	<.10	<.009	<.011	<2	<2.6	E1	E1	<.012	.08

DATE	METH-OXY-CHLOR, TOTAL (µg/L) (39480)	METHYL PARA-THION, TOTAL (µg/L) (39600)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (µg/L) (34423)	MIREX, TOTAL (µg/L) (39755)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTH-ALENE TOTAL (µg/L) (34696)	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)
DEC 05...	<.01	<.01	.2	<.2	<.01	<.20	<2.1	<4	<3	<2	<3
MAR 26...	.02	<.01	E.1	<.2	<.01	<.20	E.1	<4	<3	<2	<3

DATE	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	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)	PCNS UNFILT RECOVER (µg/L) (39250)	PENTA-CHLORO-PHENOL TOTAL (µg/L) (39032)	PER-THANE TOTAL (µg/L) (39034)	PHENAN-THRENE TOTAL (µg/L) (34461)
DEC 05...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	<4	<.1	<1
MAR 26...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	E1	<.1	E1

DATE	PHENOL TOTAL (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	STYRENE TOTAL (µg/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TOX-APHENE, TOTAL (µg/L) (39400)	TRI-CHLORO-ETHYL-ENE TOTAL (µg/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (µg/L) (34488)	TOTAL TRI-THION (µg/L) (39786)	VINYL CHLO-RIDE TOTAL (µg/L) (39175)
DEC 05...	<3	<.02	<2	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2
MAR 26...	<3	<.02	E1	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2

E--Laboratory estimated value.

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.--Estimated daily discharges: May 8 and 9. Records fair except those below 1 ft^3/s and above 200 ft^3/s and estimated daily discharges, which are poor.

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	.23	4.2	.15	.18	.39	.30	.27	.19	.31	1.2	1.4	.26
2	.24	1.4	.16	.18	.34	.29	.37	1.2	.27	2.2	.49	.26
3	1.3	.38	1.1	11	.38	.90	.25	.38	.26	1.4	.35	.26
4	.74	.25	.48	1.1	.37	.43	.24	.26	.33	.57	.28	.24
5	.24	.21	8.0	.60	.25	.31	.27	.25	.72	.48	.29	.25
6	.20	.20	1.1	.41	.23	.25	.22	.20	.36	.43	.35	.26
7	.18	.19	.46	.33	.23	.26	4.6	135	.30	.39	5.1	.26
8	21	.20	.34	.95	.23	.23	.48	1.8	.30	.35	56	.26
9	11	.23	15	.62	.23	.23	.24	1.2	.27	.40	1.2	.24
10	.61	.22	9.9	.39	.33	.23	.23	.65	.26	.45	.49	1.0
11	.23	.23	.73	.30	.28	1.7	.25	.45	11	.32	.37	.41
12	.18	.23	1.9	.27	.25	1.4	.21	1.6	11	7.2	.31	8.0
13	.18	.23	.66	.26	4.6	.67	.20	.94	1.3	2.0	.26	.49
14	.18	.22	.46	.24	1.1	.49	.22	.49	.73	.43	.25	.35
15	.23	.20	.33	.23	.54	.39	.19	.43	.43	.29	.25	.34
16	.19	.22	.29	.23	.40	.38	.85	.33	14	.31	.26	.32
17	2.6	.20	.26	2.1	4.2	.29	.51	.34	16	2.8	14	.34
18	.35	.25	.23	1.2	64	.96	.28	.62	1.3	1.3	6.8	.38
19	.26	.27	.23	.54	1.1	4.5	.22	.69	.53	1.5	.39	.33
20	.21	.20	.23	.35	.41	8.7	.27	.37	11	.35	7.8	.40
21	.20	.18	.23	.30	.32	.89	.21	.34	13	.30	.64	.37
22	.19	.18	.23	.27	.28	.50	.20	1.4	.87	.30	.37	.28
23	.19	.61	.23	.24	.26	.45	.68	1.5	.51	.27	.33	.34
24	.18	.33	.21	.21	.26	.41	6.2	.50	147	.29	5.8	5.0
25	.19	.18	.19	.20	.82	.37	.72	.32	4.7	.29	.54	21
26	.18	.16	.18	.20	3.8	6.2	.33	17	47	.25	2.1	1.2
27	.18	.16	.18	.19	1.2	3.2	4.3	40	2.7	.26	1.8	.63
28	.18	.16	.18	.18	.43	.59	.66	5.2	1.3	3.4	.38	.38
29	.18	.15	.18	.19	.34	.39	.31	.67	.91	25	.29	.29
30	.18	.15	.19	.20	---	.33	.23	.45	.81	1.7	.26	.29
31	.18	---	.18	.33	---	.30	---	.39	---	14	.26	---
MEAN	1.37	.40	1.43	.77	3.02	1.18	.81	6.94	9.65	2.27	3.53	1.48
MAX	21	4.2	15	11	64	8.7	6.2	135	147	25	56	21
MIN	.18	.15	.15	.18	.23	.23	.19	.19	.26	.25	.25	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	1.63	1.46	1.20	3.53	5.83	5.51	3.36	3.59	7.58	3.68	2.73	1.03
MAX	1.92	2.23	1.73	6.59	9.37	11.8	6.08	6.94	11.7	7.82	3.76	1.48
(WY)	1999	1999	1998	1999	1999	1998	1998	2000	1998	1998	1997	2000
MIN	1.37	.40	.44	.77	3.02	1.18	.81	1.61	4.24	2.09	1.26	.34
(WY)	2000	2000	1999	2000	2000	2000	2000	1998	1999	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	3.00		2.73		3.49	
HIGHEST ANNUAL MEAN					4.64	1998
LOWEST ANNUAL MEAN					2.73	2000
HIGHEST DAILY MEAN	165	Feb 7	147	Jun 24	165	Feb 7 1999
LOWEST DAILY MEAN	.15	Nov 29-Dec 1	.15	Nov 29-Dec 1	.15	Nov 29-Dec 1 1999
ANNUAL SEVEN-DAY MINIMUM	.16	Nov 26	.16	Nov 26	.16	Nov 26 1999
INSTANTANEOUS PEAK FLOW[a]	---		880	Jun 24	882	Jul 30 1998
INSTANTANEOUS PEAK STAGE	---		7.79	Jun 24	7.82	Jul 30 1998
INSTANTANEOUS LOW FLOW	---		.14	Sep 21,22	.14	Sep 21,22 2000
10 PERCENT EXCEEDS	5.0		4.6		6.0	
50 PERCENT EXCEEDS	.66		.34		.51	
90 PERCENT EXCEEDS	.18		.19		.24	

[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.--No estimated daily discharges. Records fair except those below 1 ft^3/s and above 320 ft^3/s, which are poor.

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	.14	5.9	.59	.24	.50	.40	.30	.61	.31	.41	2.5	.74
2	.15	4.6	.63	.25	.44	.32	.30	6.4	.26	4.8	1.6	.56
3	.21	.75	1.8	21	.53	.60	.28	1.6	.26	.79	1.4	.50
4	.21	.74	1.2	1.5	.45	.34	.28	2.4	.49	.33	.95	.46
5	.18	.66	17	.48	.42	.34	.29	1.8	.48	.30	1.3	.44
6	.15	.77	1.5	.22	.42	.33	.29	.50	.28	.28	.94	.36
7	.17	.85	.76	.26	.43	2.2	3.0	161	.30	.38	16	.36
8	22	.74	.68	.64	.42	.29	.41	15	.26	.41	63	.33
9	17	.77	27	.42	.43	.27	.35	6.4	.34	.50	4.1	.33
10	.70	.60	25	1.5	.51	.22	.34	2.1	.27	.67	1.7	1.1
11	11	.50	.79	.50	.38	1.4	.38	1.0	9.0	.42	1.0	.67
12	12	.39	2.8	.54	.38	.64	.34	1.8	6.0	3.6	.89	10
13	4.6	.49	.57	.50	9.6	.39	.35	.91	.84	.93	.80	.46
14	.48	.50	.38	.64	1.4	.29	.38	.60	.50	.34	.79	.36
15	.51	.48	.38	.49	.79	.29	.38	.59	.27	.33	.79	.29
16	.45	.50	.34	.46	.61	.24	1.9	.68	20	.36	.76	.26
17	2.4	.60	.33	1.2	7.9	.23	.57	.48	32	4.3	6.5	.24
18	.45	.73	.29	.88	94	.67	.47	.62	2.1	1.0	7.9	.26
19	.41	.76	.30	.60	3.0	4.2	.51	.38	1.2	.70	.87	.25
20	.59	.56	.30	.49	.78	19	.54	.30	13	.35	13	.26
21	.56	.42	.30	.49	.56	.92	.43	.30	14	.33	1.9	.24
22	.53	.41	.29	.52	.46	.38	.41	1.6	1.7	.86	.99	.31
23	.41	1.2	.28	.50	.44	.30	.95	1.7	.58	1.0	.96	2.0
24	.42	.44	.27	.44	.38	.27	10	.38	97	.69	9.7	6.5
25	.44	.41	.27	.43	.91	.23	1.1	.29	7.2	1.6	1.9	29
26	.40	.45	.26	.41	5.8	8.8	.63	21	56	1.2	1.5	.77
27	.39	.51	.22	.39	2.2	7.5	8.3	58	2.0	.53	1.9	.59
28	.49	.49	.26	.40	.47	.46	1.8	8.7	.44	3.8	.91	.34
29	.42	.54	.27	.42	.45	.33	.79	.91	.40	28	.82	.24
30	.50	.54	.26	.46	---	.31	.68	.45	.42	3.6	.75	.19
31	.59	---	.25	.47	---	.28	---	.35	---	17	.82	---
MEAN	2.55	.91	2.76	1.22	4.66	1.69	1.23	9.64	8.93	2.57	4.80	1.95
MAX	22	5.9	27	21	94	19	10	161	97	28	63	29
MIN	.14	.39	.22	.22	.38	.22	.28	.29	.26	.28	.75	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	1.73	1.90	1.68	6.09	8.39	8.42	5.02	5.16	9.12	3.86	3.38	.98
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	4.13	1.91	1.69	.26
(WY)	1998	2000	1999	2000	2000	2000	2000	1998	1999	1997	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL MEAN	4.52		3.57		4.68	
HIGHEST ANNUAL MEAN					6.07	1998
LOWEST ANNUAL MEAN					3.57	2000
HIGHEST DAILY MEAN	171	Feb 7	161	May 7	171	Feb 7 1999
LOWEST DAILY MEAN	.13	Sep 27	.14	Oct 1	.13	Sep 27 1999
ANNUAL SEVEN-DAY MINIMUM	.17	Sep 21	.17	Oct 1	.17	Sep 21 1999
INSTANTANEOUS PEAK FLOW[a]	---		1000	May 7	1260	Jun 11 1998
INSTANTANEOUS PEAK STAGE	---		8.69	May 7	9.71	Jun 11 1998
INSTANTANEOUS LOW FLOW	---		.13	Oct 1,2	.07	Sep 22 1999
10 PERCENT EXCEEDS	11		7.6		8.8	
50 PERCENT EXCEEDS	.78		.51		.66	
90 PERCENT EXCEEDS	.26		.27		.28	

[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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
DEC												
09...	1310	63	10.1	85	7.4	263	8.2	7200	9200	9800	92	114
JAN												
05...	1535	.52	15.5	116	8.0	570	3.8	180	250	320	189	192
FEB												
29...	0735	.74	9.7	84	7.8	948	9.2	1500	K2000	1200	188	185
MAR												
26...	2148	106	9.1	89	7.7	515	14.4	K100	K250	K500	127	128
JUN												
15...	0745	.30	5.6	62	7.7	913	20.1	880	1200	2500	188	190
AUG												
23...	1310	1.4	9.5	119	7.8	1010	27.2	K350	K640	K100	220	226

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	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, ORGANIC TOTAL (mg/L as N) (00605)	NITRO-GEN, TOTAL (mg/L as N) (00600)	NITRO-GEN, AMMONIA TOTAL (mg/L as NH_4) (71845)
DEC												
09...	139	0	100	29.0	7.00	--	3.3	.39	.4	2.9	3.7	.50
JAN												
05...	234	0	290	81.0	22.0	55.0	<.20	.06	1.1	--	--	.08
FEB												
29...	230	0	340	94.0	25.0	98.0	<.20	.04	.8	--	--	.05
MAR												
26...	156	0	140	40.0	9.60	--	3.9	.16	.6	3.7	4.4	.21
JUN												
15...	232	0	390	110	28.0	--	.32	.10	2.1	.22	2.4	.13
AUG												
23...	276	0	450	120	36.0	--	.65	.23	4.6	.42	5.2	.30

DATE	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, TOTAL (mg/L as NO_3) (71887)	PHOS-PHATE, TOTAL (mg/L as PO_4) (00650)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	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)
DEC												
09...	<.01	16.4	--	E.680	1.10	6.5	970	575	1.1	<1	<1.0	1.1
JAN												
05...	<.01	--	--	E.060	.070	3.5	12	48	<1.0	<1	<1.0	<1.0
FEB												
29...	<.01	--	.092	.030	.030	5.6	11	164	<1.0	<1	<1.0	<1.0
MAR												
26...	E.01	19.7	--	E.380	.790	4.5	1600	10	<1.0	<1	<1.0	<1.0
JUN												
15...	<.01	10.7	--	E.040	.050	4.5	27	20	<1.0	<1	<1.0	<1.0
AUG												
23...	<.01	23.2	--	E.080	.100	6.7	110	11	1.2	<1	<1.0	<1.0

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07019220 FENTON CREEK NEAR FENTON, Mo--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	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)	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)	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)
DEC 09...	2	540	2	95	<.1	3	<1.0	<1	95	<.10	<.10	<.10
JAN 05...	2	40	<1	56	<.1	<1	<1.0	<1	80	--	--	--
FEB 29...	1	180	<1	84	<.1	4	<1.0	<1	8	--	--	--
MAR 26...	2	20	<1	120	.1	3	<1.0	<1	3	<.10	<.10	<.10
JUN 15...	2	20	<1	160	<.1	5	<1.0	<1	99	--	--	--
AUG 23...	2	E18	<1	75	<.1	7	<1.0	<1	59	--	--	--

DATE	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (µg/L) (34556)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	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-NAPH-THALENE TOTAL (µg/L) (34581)
DEC 09...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2
MAR 26...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2

DATE	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 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)
DEC 09...	<2	<3	<2	<3	<2	<2	<3	<2	<2	<.013	<2	<2.2
MAR 26...	<2	M	<2	<3	<2	<2	E2	<2	<2	<.013	<2	<2.2

DATE	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)	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)
DEC 09...	<.10	<.10	<2	<.10	<.10	<40	E1	E1	E1	<1	<1	<3
MAR 26...	<.10	<.10	<2	<.10	<.10	<40	E1	E1	E1	E1	E1	<3

DATE	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)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)	CHRY-SENE TOTAL (µg/L) (34320)
DEC 09...	<2	<2	<20	<.20	<.20	<.1	<.10	<.2	<.10	<.01	E1
MAR 26...	<2	<2	<10	<.20	<.20	<.1	<.10	<.2	<.10	<.01	E1

E--Laboratory estimated value.

07019220 FENTON CREEK NEAR FENTON, Mo--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	CYCLOPENTADIENE HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHALATE TOTAL (µg/L) (34336)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DI-METHYL PHTHALATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHALATE TOTAL (µg/L) (39110)
DEC 09...	<.10	<2	<.02	.04	<.10	<.2	<.009	<2	<.2	<2	<3
MAR 26...	<.10	<2	<.02	.86	<.10	<.2	<.009	<2	<.2	<2	<3

DATE	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)	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)	ETHION, TOTAL (µg/L) (39398)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FLUORANTHENE TOTAL (µg/L) (34376)
DEC 09...	<5	<.12	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	E1
MAR 26...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	E2

DATE	FLUORENE TOTAL (µg/L) (34381)	FONOFOS (DYFONATE) WATER WHOLE TOT.REC (µg/L) (82614)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEPTACHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTACHLOR, TOTAL (µg/L) (39410)	HEXACHLOROBENZENE TOTAL (µg/L) (39700)	HEXACHLOROBUTADIENE TOTAL (µg/L) (39702)	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)
DEC 09...	<2	<.01	<.10	<.009	<.011	<2	<2.6	E1	<2	<.012	<.03
MAR 26...	<2	<.01	<.10	<.009	<.011	<2	<2.6	E1	<2	<.012	.44

DATE	METHOXYCHLOR, TOTAL (µg/L) (39480)	METHYL PARATHION, TOTAL (µg/L) (39600)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYLENE CHLORIDE TOTAL (µg/L) (34423)	MIREX, TOTAL (µg/L) (39755)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTHALENE TOTAL (µg/L) (34696)	N-BUTYL BENZYL PHTHALATE 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)
DEC 09...	<.01	<.01	.2	<.2	<.01	<.20	<2.1	<4	<3	<2	<3
MAR 26...	<.01	<.01	<.2	<.2	<.01	<.20	E.1	<4	<3	<2	<3

DATE	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	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)	PCNS UNFILT RECOVER (µg/L) (39250)	PENTACHLOROPHENOL TOTAL (µg/L) (39032)	PERTHANE TOTAL (µg/L) (39034)	PHENANTHRENE TOTAL (µg/L) (34461)
DEC 09...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	<4	<.1	E1
MAR 26...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	E1	<.1	E1

DATE	PHENOL TOTAL (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	STYRENE TOTAL (µg/L) (77128)	TETRACHLOROETHYLENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TOXAPHENE, TOTAL (µg/L) (39400)	TRICHLOROETHYLENE TOTAL (µg/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (µg/L) (34488)	TOTAL TRITHION (µg/L) (39786)	VINYL CHLORIDE TOTAL (µg/L) (39175)
DEC 09...	<3	<.02	E1	<.10	1.2	<.10	<1	<.10	<.20	<.01	<.2
MAR 26...	<3	<.02	E1	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2

E--Laboratory estimated value.

07019280 MERAMEC RIVER AT PAULINA HILLS, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

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.

DRAINAGE AREA.--3,950 mi^2, approximately.

PERIOD OF RECORD.--August 1963 to July 1975, 1982 to current year.

REMARKS.--Records of discharge are obtained from gaging station Meramec River near Eureka plus a 10 percent correction.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
OCT											
26...	0835	641	8.0	74	8.1	445	12.0	29	K19	74	186
NOV											
23...	0755	766	8.3	77	8.2	464	12.4	670	640	64	194
DEC											
08...	0810	1290	9.2	78	7.9	441	8.1	690	460	330	196
JAN											
19...	1620	862	13.0	99	7.9	426	4.2	K24	120	62	175
FEB											
08...	0745	771	10.6	78	8.1	450	3.1	380	K550	70	186
MAR											
13...	1640	1100	11.4	104	8.4	422	11.9	88	210	K32	163
APR											
04...	0705	1480	8.7	83	7.8	378	13.2	K36	76	K24	163
MAY											
23...	1500	1080	8.6	102	7.9	413	24.0	K17	44	40	166
JUN											
12...	1425	1000	7.0	87	8.1	390	26.7	80	140	80	160
JUL											
12...	0745	1140	5.8	75	7.5	358	28.6	K21	44	60	160
AUG											
01...	1455	656	9.2	117	7.9	392	27.9	580	1000	1000	146
SEP											
12...	0730	458	5.3	66	7.9	451	25.9	92	200	330	174

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
OCT											
26...	190	232	0	--	--	--	--	--	--	--	--
NOV											
23...	194	237	0	220	42.7	28.0	2.0	13.3	13.4	.2	27.2
DEC											
08...	196	240	0	--	--	--	--	--	--	--	--
JAN											
19...	179	219	0	210	41.4	24.9	1.5	10.8	16.6	.1	25.6
FEB											
08...	186	226	0	--	--	--	--	--	--	--	--
MAR											
13...	162	190	4	--	--	--	--	--	--	--	--
APR											
04...	168	205	0	--	--	--	--	--	--	--	--
MAY											
23...	166	202	0	190	40.0	21.3	2.4	11.9	15.8	.1	21.7
JUN											
12...	161	196	0	--	--	--	--	--	--	--	--
JUL											
12...	162	197	0	190	41.5	20.1	2.3	11.2	14.8	.2	20.5
AUG											
01...	146	178	0	--	--	--	--	--	--	--	--
SEP											
12...	175	214	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

07019280 MERAMEC RIVER AT PAULINA HILLS, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
OCT											
26...	.127	.32	.310	.036	.142	.116	.087	--	--	--	--
NOV											
23...	<.020	.52	.126	.048	.089	.028	.140	<10	25	266	20
DEC											
08...	.087	.38	.174	.030	.077	.068	.122	--	--	--	--
JAN											
19...	.067	.41	.231	.025	.093	.070	.107	<10	1	242	19
FEB											
08...	.303	.67	.096	.017	.059	.056	.110	--	--	--	--
MAR											
13...	.140	.49	.207	.023	.128	.060	.098	--	--	--	--
APR											
04...	.096	.53	.089	<.010	.077	.050	.137	--	--	--	--
MAY											
23...	<.020	.52	.270	.032	E.043	.039	.108	--	29	230	15
JUN											
12...	<.020	.51	.318	.028	.084	.055	.139	--	--	--	--
JUL											
12...	.044	.60	.152	.011	.066	.054	.139	14	50	226	55
AUG											
01...	.022	.66	.392	.047	.104	.074	.175	--	--	--	--
SEP											
12...	.037	.66	.389	.036	.153	.123	.262	12	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
23...	395	<8.0	E.1	<10	20	<100	16	29	<.3	E20	<31
JAN											
19...	148	<8.0	<.1	<10	40	<100	7	30	<.3	20	<31
MAY											
23...	546	<8.0	<.1	<10	10	<100	13	22	<.3	<20	E20
JUL											
12...	731	<8.0	E.1	<10	30	<100	27	28	<.3	38	E15

E--Laboratory estimated value.

07019317 MATTESE CREEK NEAR MATTESE, MO

LOCATION.--Lat 38°28'59",long 90°20'27", 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.--Estimated daily discharges: Oct. 1-31. Water-discharge records poor.

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	.00	23	.00	.20	.39	1.8	.37	.36	.66	1.5	2.5	.23
2	.00	3.3	.00	.20	.41	.69	.36	7.6	.48	5.5	.74	.23
3	2.3	.18	2.5	54	.31	3.0	.31	.68	.38	1.4	.47	.22
4	.90	.09	5.5	.93	.20	.94	.25	.53	.89	.84	.34	.15
5	.10	.03	31	.41	.18	.74	.24	.33	1.4	.74	.30	.04
6	.01	.00	1.6	.33	.16	.65	.24	.27	.35	.63	.27	.01
7	.00	.00	.40	.20	.13	.60	3.4	375	.28	.56	23	.05
8	38	.00	.22	4.4	.09	.52	.39	8.5	.22	.48	155	.02
9	3.6	.00	66	1.5	.09	.68	.22	5.7	.15	.43	2.2	.81
10	.30	.00	39	1.1	.17	.59	.26	2.8	.13	.43	.80	6.4
11	.10	.00	.75	.89	.08	8.0	.32	1.8	26	.39	.51	.70
12	.05	.00	4.9	.63	.07	2.2	.24	1.7	42	50	.38	23
13	.01	.00	.53	.40	26	1.2	.16	1.4	2.6	4.8	.30	.76
14	.00	.00	.27	.20	.91	.77	.13	.93	8.2	.70	.25	.32
15	.05	.00	.29	.27	.32	.65	.12	.84	.77	.49	.19	.11
16	.60	.00	.35	.25	.22	.52	3.3	.47	60	.40	.17	.03
17	1.5	.00	.30	3.0	16	.47	.83	.42	68	18	54	.03
18	.20	.00	.26	.86	124	3.7	.26	.39	4.0	9.3	19	.04
19	.10	.00	.21	.21	4.2	7.9	.18	.42	1.5	5.0	1.6	.16
20	.04	.00	.20	.20	2.0	26	.12	.33	55	.57	20	.26
21	1.0	.00	.22	.21	1.4	2.0	.05	.46	36	.47	2.1	.54
22	.00	.00	.31	.23	1.1	1.0	.02	2.8	2.2	.40	1.3	.01
23	.00	2.0	.29	.20	.94	.78	.52	2.5	1.3	.33	.92	.00
24	.00	.13	.27	.20	.83	.62	31	.51	512	.27	13	5.7
25	.00	.01	.29	.19	2.5	.53	1.4	.30	14	.23	1.4	48
26	.00	.00	.21	.20	14	28	.54	34	74	.21	2.5	1.4
27	.00	.00	.20	.17	2.4	8.9	22	118	4.9	.18	.96	.39
28	.00	.00	.23	.13	.93	1.1	1.6	12	2.7	16	.78	.12
29	.00	.00	.31	.43	1.6	.71	.66	2.0	1.9	120	.59	.07
30	.00	.00	.81	1.0	---	.52	.44	1.1	1.5	4.1	.35	.02
31	.00	---	.20	.71	---	.43	---	.83	---	51	.28	---
MEAN	1.58	.96	5.08	2.38	6.95	3.43	2.33	18.9	30.8	9.53	9.88	2.99
MAX	38	23	66	54	124	28	31	375	512	120	155	48
MIN	.00	.00	.00	.13	.07	.43	.02	.27	.13	.18	.17	.00
IN.	.23	.14	.74	.35	.95	.50	.33	2.76	4.36	1.39	1.45	.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	2.40	7.24	2.91	10.0	15.2	13.7	9.37	9.93	21.1	8.30	6.15	3.39
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	2.38	6.95	3.43	2.33	3.50	9.95	1.59	2.01	.27
(WY)	2000	2000	1999	2000	2000	2000	2000	1999	1999	1997	1996	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL MEAN	6.65		7.89		9.03	
HIGHEST ANNUAL MEAN					12.0	1998
LOWEST ANNUAL MEAN					6.64	1999
HIGHEST DAILY MEAN	347	Feb 7	512	Jun 24	512	Jun 24 2000
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Each Year
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 26	.00	Oct 22	.00	At Times
INSTANTANEOUS PEAK FLOW[a]	---		7220	Jun 24	7220	Jun 24 2000
INSTANTANEOUS PEAK STAGE	---		12.33	Jun 24	12.40	Apr 15 1998
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Each Year
ANNUAL RUNOFF (INCHES)	11.46		13.63		15.57	
10 PERCENT EXCEEDS	16		15		18	
50 PERCENT EXCEEDS	.95		.47		.87	
90 PERCENT EXCEEDS	.00		.00		.04	

[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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
DEC												
09...	1307	215	11.2	95	7.4	232	8.3	11000	K21000	8600	71	68
JAN												
05...	1000	185	14.1	96	7.3	385	.7	K20	K40	K20	152	149
FEB												
28...	1110	.97	12.4	109	8.0	903	10.4	K200	1200	K20	156	156
APR												
16...	1643	16	8.1	85	7.9	431	17.9	3000	14000	52000	175	175
JUN												
19...	1025	1.4	9.6	107	7.6	900	21.1	1000	2200	K200	210	212
JUL												
31...	1050	.74	6.4	73	8.5	717	22.4	2100	4800	1400	205	203

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	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, ORGANIC TOTAL (mg/L as N) (00605)	NITRO-GEN, TOTAL (mg/L as N) (00600)	NITRO-GEN, AMMONIA TOTAL (mg/L as NH_4) (71845)
DEC												
09...	82	0	92	27.0	5.90	--	1.6	.17	.3	1.4	1.9	.22
JAN												
05...	182	0	230	63.0	17.0	86.0	.52	.15	.9	.37	1.5	.19
FEB												
28...	190	0	250	72.0	16.0	160	.26	.06	.5	.20	.77	.08
APR												
16...	214	0	120	33.0	8.20	--	1.5	.42	.6	1.1	2.1	.54
JUN												
19...	259	0	280	87.0	15.0	--	.47	.10	.7	.37	1.2	.13
JUL												
31...	243	2	240	74.0	13.0	--	.21	.07	.8	.14	1.0	.09

DATE	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, TOTAL (mg/L as NO_3) (71887)	PHOS-PHATE, TOTAL (mg/L as PO_4) (00650)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	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)
DEC												
09...	<.01	8.5	--	E.260	.330	5.0	270	10	<1.0	<1	<1.0	1.8
JAN												
05...	<.01	6.5	--	E.070	.080	15	4	30	<1.0	<1	<1.0	<1.0
FEB												
28...	<.01	3.4	.184	.060	.060	2.7	3	30	<1.0	<1	<1.0	<1.0
APR												
16...	<.01	9.5	--	E.400	.540	4.3	130	198	<1.0	<1	<1.0	<1.0
JUN												
19...	<.01	5.2	--	E.110	.120	10	<1	13	1.4	<1	<1.0	<1.0
JUL												
31...	E.01	4.4	--	E.100	.110	1.3	2	13	1.5	<1	<1.0	3.4

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07019317 MATTESE CREEK NEAR MATTESE, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	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)	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)	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)
DEC 09...	2	20	<1	63	<.1	<1	<1.0	<1	14	<.20	<.20	<.20
JAN 05...	2	40	<1	30	<.1	1	3.4	<1	90	--	--	--
FEB 28...	2	40	<1	44	<.1	<1	1.0	<1	35	--	--	--
APR 16...	4	220	1	91	<.1	2	<1.0	<1	72	<.10	<.10	<.10
JUN 19...	3	20	<1	63	<.1	8	2.4	<1	52	--	--	--
JUL 31...	2	10	<1	27	<.1	1	3.6	<1	4	--	--	--

DATE	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (µg/L) (34556)	1,2-DI-CHLORO-ETHANE TOTAL (µg/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (µg/L) (34541)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (µg/L) (82626)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (µg/L) (34546)	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-NAPH-THALENE TOTAL (µg/L) (34581)
DEC 09...	<3	<.4	<.20	<2	<.20	<3	<3	<3	<1	<3	<2	<2
APR 16...	<3	<.2	<.10	<2	<.10	<3	<3	<3	<1	<3	<2	<2

DATE	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 1,2,4-TRI-CHLORO-WAT UNF REC (µg/L) (34551)
DEC 09...	<2	<3	<2	<3	<2	<2	<3	<2	<2	<.013	<1	<2.2
APR 16...	<2	<3	<2	<3	<2	<2	E1	<2	<2	<.013	<1	<2.2

DATE	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34571)	BENZENE NITRO-WATER UNFLTRD RECOVER (µg/L) (34447)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µg/L) (34536)	BENZENE TOTAL (µg/L) (34030)	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)
DEC 09...	<.20	<.20	<2	<.20	<.20	<40	E1	E2	E1	E1	E1	<3
APR 16...	<.10	<.10	<2	<.10	<.10	<40	<3	<3	<3	<2	<3	<3

DATE	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)	BROMO-FORM TOTAL (µg/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (µg/L) (32102)	CHLOR-DANE, TECH-NICAL TOTAL (µg/L) (39350)	CHLORO-BENZENE TOTAL (µg/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µg/L) (32105)	CHLORO-FORM TOTAL (µg/L) (32106)	CHLOR-PYRIFOS TOTAL RECOVER (µg/L) (38932)	CHRY-SENE TOTAL (µg/L) (34320)
DEC 09...	<2	<2	<2	<.40	<.40	<.1	<.20	<.4	<.20	E.01	E2
APR 16...	<2	<2	<2	<.20	<.20	<.1	<.10	<.2	.10	<.01	<3

E--Laboratory estimated value.

07019317 MATTESE CREEK NEAR MATTESE, MO--Continued
(Metropolitan Sewer District)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µg/L) (77093)	CYCLOPENTADIEN HEXA-CHLORO-UNFLTRD RECOVER (µg/L) (34386)	DEF TOTAL (µg/L) (39040)	DI-AZINON, TOTAL (µg/L) (39570)	BROMO-DI-CHLORO-METHANE TOTAL (µg/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (µg/L) (34668)	DI-ELDRIN TOTAL (µg/L) (39380)	DIETHYL PHTHALATE TOTAL (µg/L) (34336)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (µg/L) (81577)	DI-METHYL PHTHALATE TOTAL (µg/L) (34341)	DI-N-BUTYL PHTHALATE TOTAL (µg/L) (39110)
DEC 09...	<.20	<2	<.02	.05	<.20	<.4	<.009	<2	<.4	<2	<3
APR 16...	<.10	<2	<.02	.23	<.10	<.2	<.009	<2	<.2	<2	<3

DATE	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)	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)	ETHION, TOTAL (µg/L) (39398)	ETHYL-BENZENE TOTAL (µg/L) (34371)	FLUORANTHENE TOTAL (µg/L) (34376)
DEC 09...	<5	<.12	<.015	<.014	<2.0	<.4	<.20	<.4	<.01	<.20	4
APR 16...	<5	<.03	<.015	<.014	<2.0	<.2	<.10	<.2	<.01	<.10	<2

DATE	FLUORENE TOTAL (µg/L) (34381)	FONOFOS (DYFONATE) WATER WHOLE TOT.REC (µg/L) (82614)	FREON-113 WATER UNFLTRD REC (µg/L) (77652)	HEPTACHLOR EPOXIDE TOTAL (µg/L) (39420)	HEPTACHLOR, TOTAL (µg/L) (39410)	HEXACHLOROBENZENE TOTAL (µg/L) (39700)	HEXACHLOROBUTADIENE TOTAL (µg/L) (39702)	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)
DEC 09...	<2	<.01	<.20	<.009	<.011	<2	<2.6	E1	<2	<.012	<.03
APR 16...	<2	<.01	<.10	<.009	<.011	<2	<2.6	<3	<2	<.012	E.01

DATE	METHOXYCHLOR, TOTAL (µg/L) (39480)	METHYL PARATHION, TOTAL (µg/L) (39600)	METHYL TERT-BUTYL ETHER WAT UNF REC (µg/L) (78032)	METHYL ENE CHLORIDE TOTAL (µg/L) (34423)	MIREX, TOTAL (µg/L) (39755)	META/PARA-XYLENE WATER UNFLTRD REC (µg/L) (85795)	NAPHTHALENE TOTAL (µg/L) (34696)	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)
DEC 09...	<.01	<.01	.4	<.4	<.01	<.40	E.1	<4	<3	<2	<3
APR 16...	<.01	<.01	<.2	<.2	<.01	<.20	<2.1	<4	<3	<2	<3

DATE	O-XYLENE WATER WHOLE TOTAL (µg/L) (77135)	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)	PCNS UNFILT RECOVER (µg/L) (39250)	PENTACHLOROPHENOL TOTAL (µg/L) (39032)	PERTHANE TOTAL (µg/L) (39034)	PHENANTHRENE TOTAL (µg/L) (34461)
DEC 09...	<.20	<.014	<.016	<.017	<3	<.01	<.1	<.1	<4	<.1	E2
APR 16...	<.10	<.014	<.016	<.017	<3	<.01	<.1	<.1	<4	<.1	<2

DATE	PHENOL TOTAL (µg/L) (34694)	PHORATE TOTAL (µg/L) (39023)	PYRENE TOTAL (µg/L) (34469)	STYRENE TOTAL (µg/L) (77128)	TETRACHLOROETHYLENE TOTAL (µg/L) (34475)	TOLUENE TOTAL (µg/L) (34010)	TOXAPHENE, TOTAL (µg/L) (39400)	TRICHLOROETHYLENE TOTAL (µg/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (µg/L) (34488)	TOTAL TRITHION (µg/L) (39786)	VINYL CHLORIDE TOTAL (µg/L) (39175)
DEC 09...	<3	<.02	3	<.20	<.2	<.20	<1	<.20	<.40	<.01	<.4
APR 16...	<3	<.02	<2	<.10	<.1	<.10	<1	<.10	<.20	<.01	<.2

E--Laboratory estimated value.

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.--No estimated daily discharges. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143000	107000	117000	82400	86200	180000	141000	166000	201000	417000	153000	105000
2	156000	106000	114000	88600	81400	178000	143000	164000	183000	399000	151000	110000
3	150000	107000	113000	98700	78900	167000	136000	152000	192000	377000	143000	112000
4	137000	100000	110000	104000	85700	172000	130000	149000	205000	355000	145000	109000
5	133000	102000	113000	104000	88900	180000	124000	143000	204000	334000	143000	105000
6	128000	105000	118000	95300	85000	181000	116000	133000	212000	319000	139000	94200
7	126000	108000	123000	94600	85600	176000	120000	134000	221000	303000	131000	86800
8	122000	107000	129000	93600	87700	167000	120000	186000	222000	299000	130000	88200
9	125000	104000	134000	87800	83500	161000	120000	213000	222000	300000	147000	83300
10	120000	101000	129000	94000	80100	157000	117000	174000	225000	296000	166000	85600
11	117000	104000	130000	99200	77600	151000	110000	137000	228000	280000	173000	91800
12	118000	104000	127000	97700	78000	150000	109000	125000	233000	262000	162000	98000
13	118000	109000	130000	93800	78500	151000	108000	130000	239000	263000	145000	98000
14	119000	110000	136000	99000	81500	146000	110000	132000	239000	263000	135000	96600
15	116000	107000	126000	97300	81700	136000	108000	127000	238000	258000	116000	107000
16	115000	103000	119000	95900	79300	127000	102000	128000	243000	256000	104000	111000
17	110000	105000	118000	88400	81000	126000	99600	126000	287000	256000	105000	114000
18	109000	104000	118000	84000	86100	131000	103000	127000	306000	255000	115000	113000
19	104000	103000	114000	85500	108000	133000	104000	127000	309000	265000	125000	119000
20	105000	107000	104000	84900	120000	138000	100000	126000	304000	283000	127000	118000
21	104000	100000	99800	90200	125000	148000	111000	125000	307000	284000	127000	113000
22	104000	93900	86500	87000	116000	146000	122000	136000	321000	277000	123000	107000
23	103000	96300	76600	83500	105000	140000	150000	152000	328000	267000	122000	106000
24	104000	99500	74300	81500	96000	143000	179000	164000	347000	254000	124000	104000
25	102000	108000	74600	80000	95900	143000	177000	168000	386000	236000	136000	97600
26	104000	114000	78800	78600	98800	137000	169000	173000	390000	211000	161000	106000
27	106000	111000	82100	74300	122000	134000	167000	182000	389000	192000	174000	120000
28	107000	114000	78500	82200	152000	134000	161000	215000	402000	172000	156000	124000
29	106000	117000	76800	91000	174000	122000	162000	251000	421000	170000	132000	116000
30	103000	122000	77500	91300	---	122000	163000	239000	424000	169000	119000	109000
31	104000	---	78000	88600	---	132000	---	219000	---	153000	110000	---
MEAN	116700	106000	106600	90220	96530	148700	129400	158800	280900	271800	136700	104900
MAX	156000	122000	136000	104000	174000	181000	179000	251000	424000	417000	174000	124000
MIN	102000	93900	74300	74300	77600	122000	99600	125000	183000	153000	104000	83300
IN.	.19	.17	.17	.15	.15	.24	.20	.26	.44	.44	.22	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2000, BY WATER YEAR (WY)

MEAN	151800	158400	141500	132600	160600	251100	335800	320500	284700	244400	161800	147500
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1942 - 2000	
ANNUAL MEAN	239600		145800		207500	
HIGHEST ANNUAL MEAN					441700	1993
LOWEST ANNUAL MEAN					96770	1956
HIGHEST DAILY MEAN	551000	May 9	424000	Jun 30	1000000	Aug 6 1993
LOWEST DAILY MEAN	74300	Dec 24	74300	Dec 24,Jan 27	37600	Jan 1 1964
ANNUAL SEVEN-DAY MINIMUM	77400	Dec 23	77400	Dec 23	38500	Dec 20 1963
INSTANTANEOUS PEAK FLOW	---		425000	Jun 30	1000000	Aug 7 1993
INSTANTANEOUS PEAK STAGE	---		27.74	Jun 30	49.74	Aug 7 1993
INSTANTANEOUS LOW FLOW	---		73000	Dec 25	30000	Dec 12 1937
ANNUAL RUNOFF (INCHES)	4.59		2.80		3.98	
10 PERCENT EXCEEDS	456000		255000		399000	
50 PERCENT EXCEEDS	213000		122000		167000	
90 PERCENT EXCEEDS	105000		86200		78100	

07020500 MISSISSIPPI RIVER AT CHESTER, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT: August 1980 to current year.

REMARKS.--Estimated daily load Dec. 20-26, Jan. 25 to Feb. 1, and April 17-27. Sediment records fair.

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, 839 mg/L, June 29; minimum daily mean, 91 mg/L, Jan. 24.
SUSPENDED-SEDIMENT LOADS.--Maximum daily, 954,000 tons, June 29; minimum daily 17,700 tons, Jan. 27.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	143000	148	60700	107000	125	36100	117000	151	47500
2	156000	149	62700	106000	114	32600	114000	140	43200
3	150000	156	62900	107000	124	35400	113000	122	37400
4	137000	163	60300	100000	135	36600	110000	118	35200
5	133000	151	54500	102000	131	36000	113000	120	36400
6	128000	149	51600	105000	153	43300	118000	130	41300
7	126000	133	45200	108000	200	58500	123000	142	47300
8	122000	134	44000	107000	190	55000	129000	151	52600
9	125000	135	45600	104000	152	42500	134000	138	50100
10	120000	132	43000	101000	138	37800	129000	126	43900
11	117000	128	40400	104000	161	45100	130000	128	45000
12	118000	117	37300	104000	167	47000	127000	133	45300
13	118000	124	39600	109000	167	49100	130000	140	49200
14	119000	117	37700	110000	157	46600	136000	158	57900
15	116000	106	33200	107000	148	42500	126000	167	56800
16	115000	107	33300	103000	144	40300	119000	172	55200
17	110000	113	33600	105000	142	40300	118000	158	50000
18	109000	119	35000	104000	140	39200	118000	126	40100
19	104000	126	35400	103000	137	38000	114000	123	37800
20	105000	131	37200	107000	130	37700	104000	---	34200
21	104000	109	30600	100000	128	34600	99800	---	32000
22	104000	106	29700	93900	127	32200	86500	---	25900
23	103000	113	31700	96300	126	32800	76600	---	21200
24	104000	122	34200	99500	126	33900	74300	---	19100
25	102000	131	36000	108000	137	39900	74600	---	19100
26	104000	136	38200	114000	146	45000	78800	---	24300
27	106000	126	35900	111000	132	39600	82100	157	34900
28	107000	125	36200	114000	123	38000	78500	162	34300
29	106000	131	37500	117000	139	44000	76800	154	31800
30	103000	135	37700	122000	147	48300	77500	150	31500
31	104000	119	33300	---	---	---	78000	149	31300

07020500 MISSISSIPPI RIVER AT CHESTER, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	82400	147	32700	86200	---	31500	180000	262	127000
2	88600	148	35500	81400	133	29300	178000	242	116000
3	98700	166	44400	78900	114	24200	167000	220	99200
4	104000	181	51000	85700	120	27900	172000	205	95700
5	104000	153	43100	88900	129	31000	180000	211	103000
6	95300	128	33000	85000	128	29400	181000	219	107000
7	94600	140	35800	85600	124	28700	176000	205	97500
8	93600	138	35000	87700	97	23000	167000	189	85300
9	87800	125	29700	83500	105	23800	161000	176	76500
10	94000	149	38000	80100	111	24000	157000	166	70300
11	99200	197	52900	77600	114	24000	151000	156	63800
12	97700	156	41200	78000	113	23900	150000	148	60000
13	93800	146	37100	78500	112	23700	151000	140	57300
14	99000	146	39000	81500	111	24400	146000	144	56400
15	97300	141	37000	81700	115	25400	136000	150	55000
16	95900	135	35100	79300	109	23300	127000	150	51200
17	88400	130	31000	81000	103	22500	126000	147	50100
18	84000	124	28200	86100	156	37000	131000	145	51300
19	85500	116	26900	108000	289	85300	133000	144	51700
20	84900	118	26900	120000	373	121000	138000	144	53900
21	90200	118	28800	125000	363	123000	148000	145	57900
22	87000	109	25500	116000	278	87500	146000	128	50100
23	83500	99	22300	105000	226	64000	140000	135	51100
24	81500	91	20000	96000	245	63500	143000	133	51300
25	80000	---	19100	95900	203	52600	143000	126	48600
26	78600	---	18400	98800	166	44500	137000	120	44300
27	74300	---	17700	122000	174	57800	134000	114	41400
28	82200	---	24400	152000	197	81300	134000	116	41800
29	91000	---	31900	174000	256	121000	122000	125	41300
30	91300	---	32600	---	---	---	122000	125	41100
31	88600	---	32000	---	---	---	132000	126	44900
		APRIL			MAY			JUNE	
1	141000	128	48900	166000	152	68100	201000	280	152000
2	143000	125	48300	164000	157	69700	183000	278	137000
3	136000	121	44200	152000	144	59100	192000	264	137000
4	130000	117	41000	149000	127	51200	205000	242	134000
5	124000	123	41000	143000	131	50500	204000	244	134000
6	116000	131	41200	133000	135	48600	212000	255	146000
7	120000	130	42400	134000	162	60000	221000	289	172000
8	120000	128	41200	186000	476	248000	222000	321	192000
9	120000	125	40500	213000	755	434000	222000	342	205000
10	117000	122	38600	174000	620	292000	225000	356	217000
11	110000	120	35700	137000	321	120000	228000	369	227000
12	109000	118	34800	125000	267	89700	233000	382	240000
13	108000	117	34300	130000	229	80400	239000	395	255000
14	110000	116	34400	132000	194	68900	239000	409	264000
15	108000	112	32700	127000	164	56200	238000	416	267000
16	102000	106	29100	128000	141	48900	243000	397	261000
17	99600	---	27100	126000	138	47000	287000	544	425000
18	103000	---	27900	127000	142	48500	306000	651	538000
19	104000	---	28000	127000	146	49900	309000	466	389000
20	100000	---	27600	126000	148	50400	304000	496	407000
21	111000	---	34400	125000	149	50500	307000	524	435000
22	122000	---	43500	136000	145	53300	321000	514	446000
23	150000	---	64000	152000	163	66900	328000	552	489000
24	179000	---	90900	164000	177	78300	347000	556	522000
25	177000	---	87300	168000	172	78000	386000	724	756000
26	169000	---	74500	173000	174	81300	390000	809	852000
27	167000	---	73200	182000	200	98800	389000	641	673000
28	161000	163	70800	215000	280	164000	402000	770	838000
29	162000	140	61300	251000	371	252000	421000	839	954000
30	163000	140	61600	239000	372	239000	424000	755	865000
31	---	---	---	219000	329	194000	---	---	---

07020500 MISSISSIPPI RIVER AT CHESTER, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	417000	745	838000	153000	170	70500	105000	118	33400
2	399000	728	782000	151000	147	60000	110000	107	32000
3	377000	754	766000	143000	136	52800	112000	102	30800
4	355000	666	639000	145000	132	51500	109000	101	29700
5	334000	564	509000	143000	121	46700	105000	103	29200
6	319000	527	453000	139000	115	43000	94200	107	27200
7	303000	458	374000	131000	116	41000	86800	102	23800
8	299000	421	340000	130000	151	53200	88200	99	23500
9	300000	403	326000	147000	156	62000	83300	95	21400
10	296000	366	293000	166000	163	73500	85600	108	25100
11	280000	376	283000	173000	163	76200	91800	100	24800
12	262000	376	266000	162000	158	69300	98000	106	28000
13	263000	375	266000	145000	143	56100	98000	118	31300
14	263000	346	246000	135000	126	45900	96600	119	31000
15	258000	360	251000	116000	127	39700	107000	103	29800
16	256000	349	241000	104000	122	34200	111000	118	35600
17	256000	336	232000	105000	109	31000	114000	123	37900
18	255000	326	224000	115000	119	37200	113000	113	34400
19	265000	335	240000	125000	136	46200	119000	115	37000
20	283000	404	309000	127000	127	43600	118000	109	34800
21	284000	394	302000	127000	116	39800	113000	111	33700
22	277000	315	236000	123000	114	37800	107000	114	32900
23	267000	290	209000	122000	106	34900	106000	143	41000
24	254000	281	192000	124000	121	40600	104000	122	34100
25	236000	236	150000	136000	122	44900	97600	99	26200
26	211000	228	130000	161000	165	72300	106000	110	31800
27	192000	182	94500	174000	198	92900	120000	104	33700
28	172000	148	68300	156000	194	81300	124000	111	37400
29	170000	167	76700	132000	148	52700	116000	117	36300
30	169000	172	78200	119000	127	40700	109000	102	33000
31	153000	168	69300	110000	123	36400	---	---	---

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 mile northeast of junction of State Highways M and T, 0.25 mi west of Iinterstate 55, 2.5 miles 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.--No estimated daily discharges. Records fair except for period Oct. 1 to Nov. 30, which is 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	6.7	7.8	8.8	10	10	51	25	24	11	17	7.1	5.1
2	6.4	7.2	7.8	11	9.7	39	23	22	8.5	15	6.3	5.5
3	6.8	8.1	8.3	116	10	34	23	21	8.1	15	6.6	5.1
4	6.7	7.5	9.9	68	9.8	30	20	22	7.5	15	6.3	5.1
5	6.6	8.2	11	37	9.8	27	17	19	7.9	14	6.2	4.2
6	6.4	8.6	8.8	29	9.7	25	19	18	7.4	12	5.8	4.6
7	6.5	9.1	7.9	25	9.4	22	22	18	6.8	12	6.8	4.7
8	9.1	11	7.7	23	10	21	18	16	6.6	11	7.8	4.9
9	9.6	12	14	21	11	20	17	15	6.3	9.2	7.7	5.4
10	8.6	9.2	118	19	10	19	17	15	6.4	8.5	5.9	6.2
11	7.6	9.4	35	18	10	20	15	14	6.4	9.8	5.4	5.2
12	7.0	8.9	78	17	10	18	15	13	6.4	10	5.6	6.4
13	7.6	8.8	45	16	11	18	14	15	7.0	9.6	5.7	5.7
14	8.6	8.2	31	15	11	17	14	13	7.0	9.5	4.9	4.7
15	9.0	9.1	24	14	11	17	14	12	6.9	8.8	4.7	4.4
16	9.4	9.6	21	14	8.8	19	15	12	42	8.8	4.5	4.0
17	14	8.8	18	14	12	19	14	12	669	8.3	4.5	3.1
18	9.9	8.8	17	14	101	18	14	11	162	8.5	5.5	3.0
19	9.1	9.0	15	13	72	19	13	11	78	7.5	6.5	2.7
20	8.9	9.1	14	13	49	128	13	12	52	6.2	8.8	3.0
21	8.4	9.4	13	13	36	90	12	13	55	6.2	7.3	3.9
22	8.8	11	12	13	29	57	12	11	48	7.3	7.4	3.4
23	8.9	9.5	12	13	25	44	9.9	12	42	6.8	6.1	3.6
24	9.8	9.5	12	12	23	36	14	12	37	5.8	6.9	5.2
25	8.7	9.5	11	12	21	31	18	10	32	5.9	7.3	8.5
26	8.8	9.7	11	12	402	27	16	15	29	6.0	6.9	5.7
27	7.2	9.4	11	11	282	44	17	35	24	5.2	8.0	4.5
28	7.2	9.6	11	11	108	44	34	23	21	5.3	6.8	4.3
29	7.1	9.9	10	11	69	38	32	16	20	8.5	5.7	4.3
30	7.4	11	10	11	---	29	29	14	19	8.2	5.4	4.4
31	7.7	---	9.9	11	---	26	---	13	---	6.6	5.2	---
MEAN	8.21	9.23	20.1	20.5	47.9	33.8	17.9	15.8	48.0	9.27	6.31	4.69
MAX	14	12	118	116	402	128	34	35	669	17	8.8	8.5
MIN	6.4	7.2	7.7	10	8.8	17	9.9	10	6.3	5.2	4.5	2.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN	10.4	15.2	18.0	75.4	99.1	63.0	163	38.1	40.1	16.7	16.3	6.14
MAX	12.6	21.1	20.1	130	152	92.1	309	60.5	48.0	25.8	23.7	7.32
(WY)	1999	1999	2000	1999	1999	1999	1999	1999	2000	1998	1999	1998
MIN	8.21	9.23	16.0	20.5	47.9	33.8	17.9	15.8	32.2	9.27	6.31	4.69
(WY)	2000	2000	1999	2000	2000	2000	2000	2000	1999	2000	2000	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL MEAN	70.7		20.0		45.8	
HIGHEST ANNUAL MEAN					71.7	1999
LOWEST ANNUAL MEAN					20.0	2000
HIGHEST DAILY MEAN	4540	Apr 3	669	Jun 17	4540	Apr 3 1999
LOWEST DAILY MEAN	4.8	Sep 16,17	2.7	Sep 19	2.7	Sep 19 2000
ANNUAL SEVEN-DAY MINIMUM	5.1	Sep 14	3.2	Sep 17	3.2	Sep 17 2000
INSTANTANEOUS PEAK FLOW	---		1470	Jun 17	18700[a]	Apr 3 1999
INSTANTANEOUS PEAK STAGE	---		8.03	Jun 17	19.13	Apr 3 1999
INSTANTANEOUS LOW FLOW	---		2.6	Sep 19,20	2.2	Jun 8 1998
10 PERCENT EXCEEDS	116		34		66	
50 PERCENT EXCEEDS	18		11		14	
90 PERCENT EXCEEDS	7.2		5.7		6.4	

[a]From rating extended above 5,000 ft^3/s.

07021000 CASTOR RIVER AT ZALMA, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°08'48", long 90°04'32", in SW $^1/_4$ sec.29, T.29 N., R.9 E., Bollinger County, Hydrologic Unit 07140107. Sampling location is located approximately 1.5 mi south of Zalma on State Highway W.

DRAINAGE AREA.--423 mi^2.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
02...	1620	87	7.9	77	7.3	233	14.0	K12	46	K16	112
JAN											
11...	1310	337	12.0	98	7.7	156	7.3	K4	43	45	70
MAR											
14...	1230	272	11.3	101	7.7	156	10.4	K6	K15	K18	74
MAY											
10...	1500	126	7.4	84	7.4	210	21.5	K7	21	31	109
JUL											
25...	1105	113	6.8	79	7.7	201	23.2	31	K75	77	103
SEP											
13...	1300	68	5.9	71	7.8	234	24.5	31	44	96	116

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
02...	113	138	0	120	25.0	14.1	E.2	3.2	2.7	<.1	3.8
JAN											
11...	70	85	0	--	--	--	--	--	--	--	--
MAR											
14...	74	90	0	--	--	--	--	--	--	--	--
MAY											
10...	110	134	0	110	22.1	12.2	.7	1.9	2.5	<.1	4.1
JUL											
25...	105	128	0	--	--	--	--	--	--	--	--
SEP											
13...	116	142	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV											
02...	<.020	.12	<.050	<.010	E.039	<.010	<.050	<10	6	--	23
JAN											
11...	<.020	E.10	.431	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
14...	<.020	E.10	.369	<.010	<.050	<.010	<.050	--	--	--	--
MAY											
10...	<.020	.22	.143	<.010	<.050	<.010	<.050	<10	13	109	36
JUL											
25...	<.020	E.10	.125	<.010	<.050	<.010	<.050	--	--	--	--
SEP											
13...	<.020	.14	<.050	<.010	<.050	<.010	<.050	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
02...	91	<8.0	<.1	<10	100	<100	<1	27	<.3	26	<31
MAY											
10...	163	E3.7	<.1	<10	140	<100	<1	64	--	E15	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.--Estimated daily discharges: May 24-30, June 21-26, July 30, 31, Sept. 5, and 6. Water-discharge records good. Natural flow of stream affected by many reservoirs and navigation dams in upper the 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134000	110000	121000	82400	91600	189000	134000	166000	218000	425000	153000	113000
2	149000	111000	117000	86400	88900	191000	140000	169000	198000	413000	154000	112000
3	156000	112000	115000	101000	85100	184000	141000	163000	187000	393000	150000	113000
4	149000	110000	113000	114000	83900	175000	135000	153000	197000	370000	145000	113000
5	140000	107000	112000	113000	89500	179000	130000	148000	205000	347000	145000	105000
6	135000	107000	113000	110000	90800	182000	126000	141000	206000	327000	144000	100000
7	131000	110000	118000	103000	88500	182000	124000	132000	215000	312000	139000	95300
8	128000	112000	122000	102000	89300	174000	127000	143000	220000	301000	134000	90500
9	127000	110000	128000	98600	89800	166000	129000	193000	221000	300000	138000	90300
10	127000	107000	139000	94900	86800	159000	129000	199000	221000	299000	152000	87200
11	122000	105000	137000	99000	83600	154000	126000	164000	225000	291000	170000	89800
12	120000	107000	133000	102000	82100	149000	121000	136000	228000	270000	173000	95200
13	120000	107000	131000	100000	82300	148000	121000	127000	235000	262000	161000	99500
14	121000	111000	135000	98100	84300	147000	120000	130000	239000	264000	147000	99100
15	121000	111000	136000	101000	86200	142000	122000	129000	238000	263000	135000	100000
16	118000	108000	127000	99700	86300	134000	118000	127000	238000	259000	118000	108000
17	117000	106000	121000	97200	85700	127000	113000	127000	272000	258000	111000	112000
18	114000	107000	120000	91400	96500	128000	110000	125000	325000	257000	112000	113000
19	111000	105000	119000	88200	112000	133000	110000	126000	335000	257000	119000	114000
20	109000	106000	114000	88900	126000	143000	108000	126000	329000	273000	127000	118000
21	109000	108000	107000	89100	137000	150000	107000	125000	330000	282000	128000	117000
22	108000	101000	101000	92600	138000	156000	114000	127000	334000	281000	127000	112000
23	108000	97100	89400	89700	129000	153000	127000	136000	340000	274000	125000	107000
24	108000	99000	81600	87100	119000	151000	155000	155000	347000	263000	124000	107000
25	108000	103000	79000	85200	113000	154000	178000	166000	374000	247000	128000	104000
26	107000	110000	80000	83800	115000	151000	176000	171000	395000	227000	141000	100000
27	109000	114000	83000	82000	128000	146000	172000	179000	398000	204000	163000	109000
28	110000	112000	84700	79900	150000	143000	167000	199000	401000	185000	168000	119000
29	112000	115000	82600	87000	175000	138000	164000	238000	416000	171000	151000	122000
30	110000	118000	81100	93200	---	127000	164000	254000	426000	171000	132000	115000
31	109000	---	81600	93500	---	126000	---	235000	---	160000	121000	---
MEAN	120900	108200	110400	94640	103900	154200	133600	158400	283800	277600	139800	106000
MAX	156000	118000	139000	114000	175000	191000	178000	254000	426000	425000	173000	122000
MIN	107000	97100	79000	79900	82100	126000	107000	125000	187000	160000	111000	87200
IN.	.20	.17	.18	.15	.16	.25	.21	.26	.44	.45	.23	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2000, BY WATER YEAR (WY)

MEAN	150800	158300	142500	135700	163200	252000	330500	319700	286600	240200	157500	143400
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

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1933 - 2000	
ANNUAL MEAN	249400		149400		207200	
HIGHEST ANNUAL MEAN					446000	1993
LOWEST ANNUAL MEAN					71730	1934
HIGHEST DAILY MEAN	595000	May 10	426000	Jun 30	978000	Aug 7 1993
LOWEST DAILY MEAN	79000	Dec 25	79000	Dec 25	24700	Jan 21 1940
ANNUAL SEVEN-DAY MINIMUM	81700	Dec 24	81700	Dec 24	26700	Jan 20 1940
INSTANTANEOUS PEAK FLOW	---		429000	Jun 30	996000	Aug 7 1993
INSTANTANEOUS PEAK STAGE	---		31.13	Jun 30	45.91	May 23 1995
INSTANTANEOUS LOW FLOW	---		78200	Dec 25	23400	Dec 13 1937
ANNUAL RUNOFF (INCHES)	4.75		2.85		3.95	
10 PERCENT EXCEEDS	476000		257000		403000	
50 PERCENT EXCEEDS	227000		126000		167000	
90 PERCENT EXCEEDS	109000		89800		75100	

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

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.--NASQAN station January 1973 to September 1986. Illinois Environmental Protection Agency station October 1986 to September 1994 (during the period, samples were analyzed by the Illinois EPA). Re-established as a NASQAN station October 1994 to current year. Sediment records good except for estimated daily load Jan. 21 to Feb. 1, and Feb. 3-22, 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 and 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, 871 mg/L, May 10; minimum daily mean, 80 mg/L, Feb. 13.
SUSPENDED-SEDIMENT LOADS: Maximum daily, 874,000 tons, July 2; minimum daily, 17,800 tons, Feb. 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)
OCT												
13...	1345	121000	.115	--	10.3	110	7.6	630	19.3	130	270	K20
DEC												
27...	1440	83100	.092	.066	14.2	105	7.8	714	3.0	200	275	K19
JAN												
31...	1445	93700	.103	.075	13.6	96	8.0	484	1.6	210	260	50
MAR												
06...	1435	182000	.111	.082	10.9	95	7.9	587	9.6	180	220	170
APR												
06...	0950	127000	.111	.082	9.1	87	8.4	597	13.0	210	K140	K15
MAY												
03...	1335	162000	.115	.084	8.3	89	8.1	588	18.4	K37	K140	K23
11...	1005	167000	.162	.122	6.3	70	8.0	395	20.8	310	560	370
31...	1330	234000	.171	.128	6.0	68	7.8	473	22.1	320	420	290
JUN												
12...	1330	228000	.136	.099	6.4	72	7.8	515	21.1	100	200	80
29...	0940	414000	.160	.119	4.5	53	7.7	418	24.2	K880	1000	K250
JUL												
12...	1400	267000	.165	.123	6.3	80	7.8	469	28.6	230	K160	K110
AUG												
14...	1525	146000	.139	.102	8.0	102	8.1	529	28.7	42	110	23
21...	1430	129000	.111	.080	8.4	109	8.2	577	28.2	220	240	K14
SEP												
06...	1330	111000	.120	.086	6.1	79	8.1	585	28.4	K23	48	K13

DATE	ALKA-LINITY WAT DIS FIX END FIELD $CaCO_3$ (mg/L) (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)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	HARD-NESS NONCARB DISSOLV FLD. as $CaCO_3$ (mg/L) (00904)	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)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)
OCT												
13...	150	152	185	0	220	68	53.6	20.9	4.9	45.8	25.6	.4
DEC												
27...	200	204	249	0	260	53	64.6	23.3	5.1	46.2	29.1	.4
JAN												
31...	150	154	192	0	230	68	55.2	21.2	3.7	41.4	28.5	.3
MAR												
06...	145	150	184	0	220	65	52.7	20.4	3.6	25.1	41.3	.2
APR												
06...	180	179	204	7	220	43	55.0	20.4	4.1	37.9	31.1	.3
MAY												
03...	150	149	182	0	210	65	50.1	21.5	4.3	35.8	35.2	.3
11...	110	106	129	0	150	43	36.1	14.2	3.4	23.5	19.9	.3
31...	130	127	155	0	170	44	40.5	17.0	3.3	28.8	23.8	.2
JUN												
12...	150	152	185	0	220	63	51.0	21.2	3.8	27.8	24.6	.2
29...	120	118	144	0	160	44	40.6	14.7	4.1	16.9	16.8	.2
JUL												
12...	140	136	166	0	180	46	47.3	15.4	3.5	21.2	17.3	.3
AUG												
14...	150	150	183	0	200	47	48.3	18.5	3.8	32.2	21.8	.3
21...	150	156	190	0	220	61	51.4	21.3	4.0	40.1	26.9	.3
SEP												
06...	160	157	191	0	210	50	47.9	21.0	4.2	37.7	24.1	.3

K--Results based on colony count outside the acceptable range (non-ideal colony count).

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued
(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SILICA, DIS-SOLVED (mg/L as SiO_2) (00955)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	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)	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	TUR-BID-ITY (NTU) (00076)
OCT												
13...	8.5	125	.040	.32	.68	.890	.012	.108	.103	.214	396	25
DEC												
27...	9.0	119	.157	.45	.66	1.32	<.010	.081	.077	.177	444	17
JAN												
31...	8.4	102	.088	.37	.75	1.40	.011	.064	.047	.161	396	8.1
MAR												
06...	--	67.1	.071	.46	.82	2.25	.024	.122	.110	.260	365	45
APR												
06...	6.8	85.8	.067	.43	.87	1.37	.014	.085	.061	.194	369	21
MAY												
03...	5.1	81.5	<.020	.46	1.0	2.52	.074	.111	.082	.236	350	23
11...	8.9	53.9	.052	.48	1.6	1.48	.074	.096	.070	.543	257	--
31...	6.8	66.4	<.020	.53	1.3	1.79	.078	.115	.098	.410	293	76
JUN												
12...	8.1	66.4	<.020	.54	1.2	3.52	.013	.134	.123	.350	320	50
29...	9.5	41.8	.029	.60	1.5	3.29	.015	.142	.123	.557	245	110
JUL												
12...	9.6	60.7	<.020	.37	.95	2.99	<.010	.159	.134	.417	290	80
AUG												
14...	6.0	75.5	<.020	.41	.95	1.25	.029	.128	.101	.262	319	38
21...	1.9	93.7	<.020	.39	.86	.894	.032	.103	.081	.219	351	25
SEP												
06...	2.5	90.8	<.020	.34	.74	.516	.025	.115	.093	.243	341	32

DATE	ARSENIC DIS-SOLVED (µg/L as As) (01000)	BORON, DIS-SOLVED (µg/L as B) (01020)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LITHIUM DIS-SOLVED (µg/L as Li) (01130)	SELE-NIUM, DIS-SOLVED (µg/L as Se) (01145)	STRON-TIUM, DIS-SOLVED (µg/L as Sr) (01080)	VANA-DIUM, DIS-SOLVED (µg/L as V) (01085)	CARBON, ORGANIC DIS-SOLVED (mg/L as C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (mg/L as C) (00689)	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)
OCT												
13...	E2.0	89	<10	27.6	E1.6	332	<10	4.5	1.5	<.003	<.010	<.002
DEC												
27...	E1.7	86	<10	26.1	E1.8	383	E6	4.1	1.4	<.003	.013	.007
JAN												
31...	E1.4	75	10	18.8	E1.3	324	<10	4.6	.7	<.003	.021	.009
MAR												
06...	E1.7	--	<10	8.9	E1.2	--	<10	4.6	1.1	<.003	.132	<.010
APR												
06...	E1.7	93	20	16.0	E1.2	283	<10	5.6	1.1	<.003	.076	<.002
MAY												
03...	E1.6	79	20	16.1	<2.4	235	<10	4.6	1.9	<.003	.344	.017
11...	E1.5	92	530	9.3	<2.4	177	E6	5.4	4.8	<.003	.256	.259
31...	2.6	103	110	11.9	E2.3	207	<10	7.1	1.4	<.003	.526	.089
JUN												
12...	2.8	82	30	13.6	E1.5	219	<10	5.9	1.8	<.003	.481	.030
29...	E1.5	46	100	8.3	<2.4	148	E7	6.9	>5.0	<.003	.158	.025
JUL												
12...	2.1	72	30	9.0	E1.4	175	<10	8.0	3.7	<.003	.061	.011
AUG												
14...	2.2	148	30	14.9	<2.4	231	<10	4.8	1.1	<.003	<.002	<.002
21...	2.6	141	10	20.0	E2.0	282	<10	5.8	1.4	<.003	<.002	<.010
SEP												
06...	3.4	95	20	19.4	E1.4	270	<10	6.0	1.5	<.003	<.002	<.002

E--Laboratory estimated value.

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued
(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ATRAZINE, WATER, DISS, REC (µg/L) (39632)	METHYL AZINPHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	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)	DIAZINON, DISSOLVED (µg/L) (39572)	DIELDRIN DISSOLVED (µg/L) (39381)
OCT												
13...	.141	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.008	<.010	<.001
DEC												
27...	.110	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.025	<.002	<.001
JAN												
31...	.257	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.029	.022	<.001
MAR												
06...	.247	<.001	<.002	<.002	<.003	<.003	<.004	<.010	<.002	E.030	.016	<.001
APR												
06...	.166	<.001	<.002	<.002	<.003	<.003	<.004	<.010	<.002	E.030	E.003	<.001
MAY												
03...	1.38	<.001	<.002	<.002	<.003	<.003	<.004	.019	<.002	E.080	.013	<.001
11...	2.18	<.001	<.002	<.002	E.012	E.018	<.004	.024	<.002	E.100	.019	<.001
31...	2.82	<.001	<.002	<.002	<.003	<.003	<.004	.063	<.002	E.200	.011	<.001
JUN												
12...	2.25	<.001	<.002	<.002	<.003	E.025	<.004	.043	<.002	E.180	.004	<.001
29...	1.51	<.001	<.002	<.002	<.003	E.018	<.004	.027	<.002	E.240	.015	<.001
JUL												
12...	.777	<.001	<.002	<.002	<.003	<.003	<.004	.008	<.002	E.029	.006	<.001
AUG												
14...	.272	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.016	.004	<.001
21...	.276	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.019	<.002	<.001
SEP												
06...	.208	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.067	<.002	<.001

DATE	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 0.7 µ GF, REC (µg/L) (82666)	MALATHION, DISSOLVED (µg/L) (39532)	METOLACHLOR WATER DISSOLV (µg/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (µg/L) (82630)	MOLINATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)
OCT												
13...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.038	<.004	<.004	<.003
DEC												
27...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.055	<.004	<.004	<.003
JAN												
31...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.073	<.004	<.004	<.003
MAR												
06...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.090	<.004	<.004	<.003
APR												
06...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.063	<.004	<.004	<.003
MAY												
03...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.611	.014	<.004	<.003
11...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.286	.011	<.004	<.003
31...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.789	.023	<.004	<.003
JUN												
12...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.784	.013	<.004	<.003
29...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.515	.012	<.004	<.003
JUL												
12...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.258	<.004	<.004	<.003
AUG												
14...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.051	<.004	<.004	<.003
21...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.058	<.004	<.004	<.003
SEP												
06...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.044	<.004	<.004	<.003

E--Laboratory estimated value.

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued
(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PARA-THION, DIS-SOLVED (µg/L) (39542)	METHYL PARA-THION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	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)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PRO-METON, WATER, DISS, REC (µg/L) (04037)	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)	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	SI-MAZINE, WATER, DISS, REC (µg/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 µ GF, REC (µg/L) (82670)
OCT												
13...	<.004	<.006	<.004	<.004	<.002	E.008	<.007	<.004	<.013	<.003	<.005	<.010
DEC												
27...	<.004	.016	<.004	<.004	<.002	<.018	<.007	<.004	<.013	<.003	.008	<.010
JAN												
31...	<.004	<.006	<.004	<.004	<.002	E.008	<.007	<.004	<.013	<.003	<.010	<.010
MAR												
06...	<.004	<.006	<.004	<.004	<.002	E.006	<.007	<.004	<.013	<.003	.011	<.010
APR												
06...	<.004	<.006	<.004	<.004	<.002	E.007	<.007	<.004	<.013	<.003	<.010	<.010
MAY												
03...	<.004	<.006	<.004	<.004	<.002	E.009	<.007	<.004	<.013	<.003	.032	<.010
11...	<.004	<.006	<.004	<.004	<.002	E.011	<.007	<.004	<.013	<.003	.141	<.010
31...	<.004	<.030	<.004	<.004	<.002	E.014	<.007	<.004	<.013	<.003	.134	.012
JUN												
12...	<.004	<.006	<.004	<.004	<.002	E.011	<.007	<.004	<.013	<.003	.026	<.010
29...	<.004	.038	<.004	<.004	<.002	E.011	<.007	<.004	<.013	<.003	.040	.014
JUL												
12...	<.004	.041	<.004	<.004	<.002	E.011	<.007	<.004	<.013	<.003	.013	<.010
AUG												
14...	<.004	<.006	<.004	<.004	<.002	E.009	<.007	<.004	<.013	<.003	.010	<.010
21...	<.004	<.006	<.004	<.004	<.002	E.010	<.007	<.004	<.013	<.003	.011	<.010
SEP												
06...	<.004	<.006	<.004	<.004	<.002	E.011	<.007	<.004	<.013	<.003	.013	<.010

DATE	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µg/L) (82665)	TER-BUFOS WATER FLTRD 0.7 µ GF, REC (µg/L) (82675)	TER-BUTHYL-AZINE, WATER, DISS, REC (µg/L) (04022)	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)	ALPHA BHC DIS-SOLVED (µg/L) (34253)	PER-METHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	P,P' DDE DISSOLV (µg/L) (34653)	SEDI-MENT, SUS-PENDED (mg/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 mm (70331)
OCT											
13...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	78	84
DEC											
27...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	108	89
JAN											
31...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	100	81
MAR											
06...	<.007	<.013	--	<.005	<.001	<.002	<.002	<.005	<.006	170	68
APR											
06...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	185	84
MAY											
03...	<.007	<.013	.006	<.002	<.001	<.002	<.002	<.005	<.006	146	80
11...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	651	96
31...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	315	87
JUN											
12...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	292	77
29...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	597	78
JUL											
12...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	367	84
AUG											
14...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	186	83
21...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	158	86
SEP											
06...	<.007	<.013	--	<.002	<.001	<.002	<.002	<.005	<.006	155	88

E--Laboratory estimated value.

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	134000	154	56700	110000	129	38300	121000	107	34900
2	149000	148	59600	111000	130	38900	117000	95	30000
3	156000	156	65800	112000	118	35600	115000	93	28800
4	149000	149	59800	110000	107	31700	113000	90	27600
5	140000	149	56000	107000	116	33500	112000	98	29500
6	135000	157	57100	107000	156	45200	113000	104	31900
7	131000	146	51500	110000	154	45600	118000	114	36400
8	128000	136	47000	112000	136	40800	122000	124	40900
9	127000	153	52400	110000	114	34000	128000	134	46500
10	127000	177	60900	107000	118	34000	139000	153	57500
11	122000	141	46600	105000	112	31800	137000	175	64700
12	120000	132	42500	107000	110	31800	133000	126	45200
13	120000	129	41800	107000	118	34300	131000	122	43000
14	121000	125	40700	111000	119	35800	135000	121	43900
15	121000	130	42200	111000	109	32800	136000	109	39900
16	118000	125	39700	108000	106	30800	127000	102	34800
17	117000	132	41500	106000	115	32900	121000	113	36800
18	114000	158	48600	107000	100	28800	120000	116	37600
19	111000	144	43100	105000	103	29400	119000	96	31000
20	109000	143	42000	106000	116	33100	114000	89	27400
21	109000	132	38900	108000	97	28100	107000	---	25600
22	108000	117	34300	101000	96	26400	101000	---	24200
23	108000	126	36800	97100	114	29800	89400	---	21600
24	108000	119	34700	99000	104	27900	81600	---	20600
25	108000	113	33000	103000	106	29300	79000	---	20900
26	107000	110	31800	110000	102	30200	80000	---	22200
27	109000	115	33900	114000	103	31800	83000	107	23900
28	110000	104	31200	112000	94	28500	84700	---	23700
29	112000	110	33200	115000	103	32000	82600	---	22000
30	110000	114	33700	118000	94	29900	81100	---	20700
31	109000	119	34900	---	---	---	81600	---	19900
		JANUARY			FEBRUARY			MARCH	
1	82400	---	19200	91600	96	23600	189000	205	105000
2	86400	116	27100	88900	92	22000	191000	212	110000
3	101000	291	80500	85100	103	23700	184000	217	108000
4	114000	336	103000	83900	95	21600	175000	202	95500
5	113000	191	58000	89500	93	22600	179000	202	97600
6	110000	155	45800	90800	88	21700	182000	208	103000
7	103000	133	37100	88500	96	22900	182000	203	99400
8	102000	132	36500	89300	94	22600	174000	168	78800
9	98600	125	33200	89800	94	22800	166000	154	68700
10	94900	101	25900	86800	85	19800	159000	141	60600
11	99000	112	29800	83600	87	19600	154000	146	60900
12	102000	117	32400	82100	84	18600	149000	147	59000
13	100000	118	31900	82300	80	17800	148000	139	55400
14	98100	112	29600	84300	94	21400	147000	152	60400
15	101000	124	33700	86200	88	20600	142000	171	65600
16	99700	125	33800	86300	99	23100	134000	165	59800
17	97200	132	34500	85700	101	23400	127000	161	55200
18	91400	130	32100	96500	175	46000	128000	153	53000
19	88200	106	25200	112000	229	69600	133000	140	50500
20	88900	101	24200	126000	266	90600	143000	163	63100
21	89100	106	25500	137000	273	101000	150000	172	69700
22	92600	108	27100	138000	335	125000	156000	161	67600
23	89700	110	26600	129000	264	92300	153000	168	69300
24	87100	107	25200	119000	218	70300	151000	175	71500
25	85200	96	22200	113000	220	67000	154000	145	60200
26	83800	90	20500	115000	225	70100	151000	142	58000
27	82000	85	18900	128000	232	80800	146000	150	59100
28	79900	90	19300	150000	234	94400	143000	124	47600
29	87000	90	21300	175000	180	85400	138000	137	50800
30	93200	106	26600	---	---	---	127000	135	46300
31	93500	97	24500	---	---	---	126000	141	48100

07022000 MISSISSIPPI RIVER AT THEBES, IL--Continued

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	134000	144	52400	166000	154	69200	218000	282	165000
2	140000	158	59900	169000	154	70000	198000	250	134000
3	141000	146	55600	163000	146	64300	187000	230	116000
4	135000	139	50500	153000	145	59800	197000	209	111000
5	130000	144	50300	148000	147	58800	205000	196	108000
6	126000	169	57500	141000	130	49600	206000	212	118000
7	124000	144	48000	132000	120	43000	215000	225	131000
8	127000	165	56700	143000	195	77800	220000	257	153000
9	129000	164	57300	193000	673	360000	221000	285	170000
10	129000	149	52000	199000	871	469000	221000	271	162000
11	126000	147	50100	164000	601	269000	225000	272	166000
12	121000	123	40100	136000	315	116000	228000	282	174000
13	121000	131	42900	127000	223	76400	235000	282	179000
14	120000	140	45400	130000	195	68300	239000	295	190000
15	122000	130	42700	129000	185	64700	238000	296	190000
16	118000	121	38400	127000	181	62100	238000	290	187000
17	113000	130	39300	127000	162	55500	272000	346	257000
18	110000	131	38700	125000	149	50400	325000	512	451000
19	110000	120	35900	126000	156	52800	335000	498	450000
20	108000	118	34500	126000	160	54500	329000	437	386000
21	107000	127	36800	125000	152	51400	330000	432	385000
22	114000	135	41700	127000	145	49500	334000	468	422000
23	127000	142	48800	136000	172	63200	340000	490	450000
24	155000	169	70800	155000	171	71400	347000	488	457000
25	178000	174	84100	166000	160	71600	374000	510	515000
26	176000	161	76700	171000	161	74200	395000	634	677000
27	172000	159	73800	179000	159	77000	398000	585	628000
28	167000	153	68700	199000	197	106000	401000	515	558000
29	164000	157	69600	238000	264	170000	416000	612	688000
30	164000	149	66000	254000	320	220000	426000	693	796000
31	---	---	---	235000	316	200000	---	---	---
	JULY			AUGUST			SEPTEMBER		
1	425000	731	838000	153000	190	78300	113000	164	49700
2	413000	784	874000	154000	196	81600	112000	164	49300
3	393000	733	776000	150000	135	54500	113000	155	47100
4	370000	653	652000	145000	144	56600	113000	151	46200
5	347000	541	506000	145000	140	54800	105000	154	46500
6	327000	485	428000	144000	134	51900	100000	159	47400
7	312000	426	359000	139000	146	54800	95300	173	45300
8	301000	380	309000	134000	146	52900	90500	165	40400
9	300000	361	293000	138000	165	61500	90300	158	38500
10	299000	376	303000	152000	166	68600	87200	143	33600
11	291000	364	286000	170000	205	94400	89800	150	36400
12	270000	365	266000	173000	249	116000	95200	161	41500
13	262000	342	241000	161000	228	99000	99500	152	41000
14	264000	329	235000	147000	189	75100	99100	160	42700
15	263000	321	228000	135000	160	58600	100000	155	42000
16	259000	304	212000	118000	157	50000	108000	143	41600
17	258000	276	192000	111000	178	53500	112000	146	44300
18	257000	269	187000	112000	172	51800	113000	153	46700
19	257000	256	178000	119000	174	56000	114000	146	44800
20	273000	310	229000	127000	156	53300	118000	140	44600
21	282000	349	266000	128000	160	55400	117000	139	44100
22	281000	327	248000	127000	160	55000	112000	146	43900
23	274000	272	201000	125000	133	44800	107000	148	43000
24	263000	261	185000	124000	148	49400	107000	142	41200
25	247000	245	163000	128000	141	48800	104000	160	44900
26	227000	240	147000	141000	141	53700	100000	149	40300
27	204000	224	123000	163000	171	75600	109000	155	45700
28	185000	186	93100	168000	213	96700	119000	157	50600
29	171000	190	88100	151000	222	90300	122000	147	48400
30	171000	220	102000	132000	200	71400	115000	125	39400
31	160000	195	84200	121000	172	56000	---	---	---

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.--Estimated daily discharges: Aug. 1 and 2. Records fair. U.S. Army Corps of Engineers gage-height and satellite telemeters 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	17	23	17	40	44	674	370	99	96	115	65	12
2	12	96	16	42	43	517	339	88	77	90	50	10
3	9.0	43	19	307	42	466	314	82	60	71	40	8.6
4	7.1	38	51	714	43	428	283	85	47	95	33	7.9
5	8.2	30	162	447	42	375	255	82	45	87	26	7.2
6	8.5	25	274	313	41	335	231	76	38	72	20	6.1
7	8.2	22	240	247	41	306	218	73	32	1500	25	5.5
8	17	24	199	211	40	284	199	71	27	568	37	5.3
9	36	25	228	201	39	262	182	76	23	321	26	7.6
10	42	24	1350	188	40	237	164	90	22	218	20	10
11	33	20	721	165	40	232	153	80	20	163	19	11
12	25	18	1070	142	40	233	143	67	25	127	19	12
13	25	17	893	126	42	238	131	73	133	102	15	13
14	22	17	532	110	48	255	122	74	129	86	13	14
15	17	15	378	98	52	250	116	57	78	70	10	14
16	16	14	295	91	63	242	114	49	52	64	8.9	13
17	14	14	244	87	109	235	118	43	2640	58	8.0	12
18	11	14	232	83	1720	225	120	39	1760	51	11	12
19	10	14	228	81	1920	269	110	41	846	47	11	13
20	11	13	210	74	924	1990	102	39	567	42	13	14
21	10	13	157	68	598	1700	91	36	771	38	15	14
22	8.6	18	98	64	446	959	83	32	886	36	14	14
23	8.4	23	82	64	362	675	80	33	577	33	12	13
24	9.6	27	74	62	311	538	89	36	386	30	12	19
25	9.8	26	66	58	274	447	109	46	285	25	114	33
26	8.2	24	59	53	3600	385	112	63	210	21	55	39
27	7.8	21	55	48	3880	791	111	153	451	19	33	36
28	7.3	21	51	46	1550	808	101	223	502	17	23	30
29	8.1	20	47	46	936	582	106	207	252	43	18	34
30	8.3	19	44	47	---	493	115	151	149	99	16	26
31	9.2	---	43	46	---	423	---	119	---	80	14	---
MEAN	14.3	23.9	262	141	598	511	159	80.1	373	142	25.7	15.5
MAX	42	96	1350	714	3880	1990	370	223	2640	1500	114	39
MIN	7.1	13	16	40	39	225	80	32	20	17	8.0	5.3
IN.	.03	.05	.60	.32	1.28	1.17	.35	.18	.82	.32	.06	.03

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

MEAN	98.8	895	862	877	785	849	1118	906	313	92.4	59.7	132
MAX	438	3774	2428	2187	1745	1296	2890	2911	899	189	179	1153
(WY)	1994	1994	1991	1993	1989	1988	1994	1990	1997	1997	1993	1993
MIN	13.3	23.9	32.7	141	153	436	159	64.5	16.4	33.1	4.18	11.5
(WY)	1996	2000	1990	2000	1996	1996	2000	1987	1988	1996	1988	1987

SUMMARY STATISTICS	FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	194		596	
HIGHEST ANNUAL MEAN			932	1994
LOWEST ANNUAL MEAN			194	2000
HIGHEST DAILY MEAN	3880	Feb 27	72000	Nov 14 1993
LOWEST DAILY MEAN	5.3	Sep 8	1.8	Aug 18 1988
ANNUAL SEVEN-DAY MINIMUM	6.9	Sep 3	2.2	Aug 16 1988
INSTANTANEOUS PEAK FLOW	7050	Feb 26	130000	Nov 14 1993
INSTANTANEOUS PEAK STAGE	9.29	Feb 26	33.10	Nov 14 1993
INSTANTANEOUS LOW FLOW	5.1	Sep 7,8	1.7	Aug 18 1988
ANNUAL RUNOFF (INCHES)	5.23		16.03	
10 PERCENT EXCEEDS	456		1130	
50 PERCENT EXCEEDS	56		188	
90 PERCENT EXCEEDS	12		15	

07036100 ST. FRANCIS RIVER NEAR SACO, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

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, 1.3 mi downstream from Twelve mile Creek, and 3.5 mi northwest of Saco.

DRAINAGE AREA.--664 mi^2.

PERIOD OF RECORD--November 1983 to September 1989, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV 02...	1010	45	8.7	85	7.3	223	14.0	39	60	28	100
JAN 10...	1500	388	13.9	113	7.8	190	6.6	K1	K5	22	67
MAR 14...	1515	392	11.0	101	8.7	181	11.6	K1	K2	K1	71
MAY 10...	1520	150	6.5	77	7.9	246	23.4	K1	K6	K3	92
JUL 25...	1430	84	8.0	98	7.7	204	25.6	K11	K13	K14	90
SEP 14...	1045	36	6.2	74	7.4	246	23.8	68	K74	24	102

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV 02...	101	123	0	110	21.9	13.5	1.5	5.6	4.9	<.1	7.8
JAN 10...	68	83	0	--	--	--	--	--	--	--	--
MAR 14...	71	77	5	--	--	--	--	--	--	--	--
MAY 10...	92	112	0	110	20.0	13.6	1.7	9.4	10.3	.2	13.6
JUL 25...	90	110	0	--	--	--	--	--	--	--	--
SEP 14...	103	125	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV 02...	<.020	.15	<.050	<.010	<.050	<.010	<.050	<10	<1	--	E9
JAN 10...	<.020	.14	.359	<.010	<.050	<.010	<.050	--	--	--	--
MAR 14...	<.020	.16	.051	<.010	<.050	<.010	<.050	--	--	--	--
MAY 10...	<.020	.26	<.050	<.010	<.050	<.010	<.050	<10	<10	140	E9
JUL 25...	<.020	.26	.076	<.010	E.032	.013	E.036	--	--	--	--
SEP 14...	<.020	.22	<.050	<.010	<.050	<.010	<.050	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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 02...	E19	<8.0	<.1	<10	30	<100	1	28	<.3	65	<31
MAY 10...	E24	<8.0	<.1	<10	30	<100	3	32	<.3	36	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.--Estimated daily discharges: Sept. 8-14. Records fair. U.S. Army Corps of Engineers 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	7.4	20	19	24	19	210	81	36	33	47	22	10
2	8.4	39	18	24	19	167	76	36	31	41	19	9.8
3	8.6	40	26	50	18	154	72	36	28	37	20	11
4	8.9	32	43	150	19	138	67	35	26	36	28	15
5	8.2	28	64	138	21	122	63	34	25	32	25	14
6	7.4	26	66	113	23	109	60	33	23	29	22	14
7	8.6	26	54	97	22	99	57	33	22	33	20	13
8	21	25	47	88	20	90	52	33	21	36	19	11
9	28	22	55	81	20	82	49	33	19	30	18	10
10	23	21	272	70	22	76	46	31	18	27	18	12
11	20	21	210	61	23	74	44	31	18	26	17	14
12	16	21	298	56	23	69	41	31	23	24	15	15
13	14	21	287	51	25	63	41	33	31	22	15	14
14	13	20	195	45	25	60	41	29	27	21	14	13
15	12	20	148	42	24	57	44	26	24	19	12	13
16	16	19	120	40	24	56	43	25	23	19	11	12
17	31	17	101	38	56	52	39	24	271	19	11	10
18	25	16	87	34	616	51	37	23	396	19	11	10
19	21	16	74	31	517	57	35	26	213	18	12	9.2
20	18	17	63	28	277	159	34	26	146	18	14	8.5
21	17	19	55	26	199	214	33	25	182	17	15	7.5
22	18	21	48	27	157	166	33	24	233	17	13	7.7
23	18	23	42	28	131	141	33	23	156	16	12	9.9
24	18	24	38	25	113	125	33	23	119	15	12	16
25	17	25	34	23	101	112	35	23	97	14	13	21
26	16	25	31	21	1000	101	33	36	86	13	14	20
27	15	25	29	20	1000	104	35	44	88	12	14	17
28	15	24	27	21	434	108	32	47	70	13	14	15
29	15	23	26	22	283	99	33	44	60	17	12	13
30	16	20	24	23	---	93	36	40	51	27	11	13
31	18	---	24	21	---	87	---	36	---	25	11	---
MEAN	16.1	23.2	84.7	49.0	180	106	45.3	31.6	85.3	23.8	15.6	12.6
MAX	31	40	298	150	1000	214	81	47	396	47	28	21
MIN	7.4	16	18	20	18	51	32	23	18	12	11	7.5
IN.	.19	.26	.98	.57	1.95	1.23	.51	.37	.96	.28	.18	.14

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

MEAN	67.3	241	203	180	183	212	283	191	115	32.3	24.4	32.2
MAX	396	610	632	465	408	357	579	494	587	95.7	102	128
(WY)	1985	1986	1988	1993	1999	1985	1994	1990	1985	1987	1985	1993
MIN	16.1	22.5	25.5	37.0	38.5	92.7	45.3	28.9	15.0	11.9	7.67	6.50
(WY)	2000	1996	1990	1984	1996	1992	2000	1987	1988	1991	1983	1983

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	126		55.6		147	
HIGHEST ANNUAL MEAN					267	1985
LOWEST ANNUAL MEAN					55.6	2000
HIGHEST DAILY MEAN	4460	Apr 3	1000	Feb 26	7500	Nov 14 1993
LOWEST DAILY MEAN	2.8	Sep 4	7.4	Oct 1,6	2.8	Sep 4 1999
ANNUAL SEVEN-DAY MINIMUM	3.5	Sep 1	8.2	Oct 1	3.5	Sep 1 1999
INSTANTANEOUS PEAK FLOW	---		2280	Feb 26	25700	Nov 14 1993
INSTANTANEOUS PEAK STAGE	---		5.85	Feb 26	16.85	Nov 14 1993
INSTANTANEOUS LOW FLOW	---		6.6	Oct 1,6	2.5	Sep 4 1999
ANNUAL RUNOFF (INCHES)	17.17		7.61		20.02	
10 PERCENT EXCEEDS	244		119		296	
50 PERCENT EXCEEDS	30		26		54	
90 PERCENT EXCEEDS	8.1		13		16	

07037300 BIG CREEK AT SAM A. BAKER STATE PARK
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°15'40", long 90°30'23", in 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.

PERIOD OF RECORD.--November 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
02...	1200	33	9.3	93	7.4	296	15.1	K15	51	K14	144
JAN											
11...	1420	122	12.2	102	7.8	238	8.3	K7	K3	K7	109
MAR											
13...	1500	107	11.6	108	7.8	215	12.0	K1	K1	K6	100
MAY											
08...	1600	44	9.0	101	7.4	263	21.3	K1	K1	K14	159
JUL											
24...	1500	29	7.5	93	7.9	266	26.2	K6	K8	K22	133
SEP											
14...	0850	17	5.2	61	7.6	303	23.0	K14	K11	30	146

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
02...	148	181	0	160	34.3	18.2	.4	5.0	3.4	.1	7.3
JAN											
11...	104	127	0	--	--	--	--	--	--	--	--
MAR											
13...	100	122	0	--	--	--	--	--	--	--	--
MAY											
08...	162	198	0	140	27.9	16.2	.8	3.6	3.8	.1	8.5
JUL											
24...	134	164	0	--	--	--	--	--	--	--	--
SEP											
14...	147	179	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV											
02...	<.020	.16	<.050	<.010	E.036	<.010	<.050	<10	<1	166	<15
JAN											
11...	<.020	<.10	.242	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
13...	<.020	<.10	.257	.012	<.050	<.010	<.050	--	--	--	--
MAY											
08...	<.020	E.10	.105	<.010	<.050	<.010	<.050	<10	<10	151	E10
JUL											
24...	<.020	.11	.102	<.010	<.050	<.010	<.050	--	--	--	--
SEP											
14...	<.020	E.10	.072	<.010	<.050	<.010	<.050	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
02...	<28	<8.0	<.1	<10	E10	<100	<1	3	<.3	23	E18
MAY											
08...	E14	<8.0	<.1	<10	10	<100	<1	7	<.3	E20	E21

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.--No estimated daily discharges. Records fair. U.S. Army Corps of Engineer gage height and satellite telemeters 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	64	84	154	146	1960	814	185	269	491	132	59
2	37	69	82	151	142	1590	729	187	240	383	139	54
3	37	81	88	264	140	1360	663	180	259	327	123	48
4	37	157	121	992	141	1240	596	174	203	382	259	44
5	37	147	201	1480	139	1110	530	170	173	412	150	41
6	41	128	279	1080	143	976	469	170	152	337	122	40
7	43	119	365	837	145	866	421	165	136	1930	104	38
8	73	110	368	688	140	777	377	158	124	1890	94	37
9	101	102	365	597	139	697	343	153	111	962	86	36
10	92	94	1420	524	140	620	320	150	102	630	84	37
11	82	87	2620	451	140	568	301	152	96	460	86	37
12	80	82	2110	390	142	534	283	154	90	352	78	40
13	85	81	2830	351	178	499	266	146	1110	294	70	39
14	79	78	1960	316	224	478	253	138	798	251	64	36
15	72	75	1350	288	215	482	243	138	467	218	60	33
16	68	73	1030	266	201	481	241	134	332	200	56	31
17	107	70	828	257	412	450	237	125	2020	179	53	30
18	108	69	686	242	3710	430	227	117	7910	168	51	28
19	94	69	587	225	4700	449	224	113	3080	158	50	25
20	85	69	526	212	2980	782	217	118	1820	146	52	26
21	77	68	448	201	1930	2960	204	121	1480	138	56	27
22	72	70	380	193	1420	2200	194	119	1850	129	57	25
23	67	77	312	188	1130	1650	186	115	1580	119	55	27
24	64	85	267	180	960	1350	189	110	1150	108	53	41
25	62	87	237	173	817	1150	194	111	902	100	61	50
26	60	88	217	166	2910	990	193	143	731	92	67	57
27	58	93	201	159	10000	928	198	245	1260	84	82	58
28	58	94	189	157	4380	1390	199	441	928	82	111	54
29	58	92	179	155	2650	1310	193	491	839	98	92	50
30	57	88	170	154	---	1070	183	396	605	111	76	52
31	58	---	161	149	---	921	---	319	---	112	65	---
MEAN	67.4	88.9	666	375	1397	1041	323	182	1027	366	86.7	40.0
MAX	108	157	2830	1480	10000	2960	814	491	7910	1930	259	59
MIN	37	64	82	149	139	430	183	110	90	82	50	25
IN.	.08	.10	.80	.45	1.58	1.26	.38	.22	1.20	.44	.10	.05

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

MEAN	360	1041	1319	1478	1564	2122	2378	1732	922	324	211	245
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	1277		468		1138	
HIGHEST ANNUAL MEAN					2731	1985
LOWEST ANNUAL MEAN					343	1941
HIGHEST DAILY MEAN	63800	Apr 4	10000	Feb 27	107000	Dec 4 1982
LOWEST DAILY MEAN	16	Sep 7	25	Sep 19	8.0	Aug 28 1936
ANNUAL SEVEN-DAY MINIMUM	19	Sep 3	27	Sep 17	8.4	Aug 26 1936
INSTANTANEOUS PEAK FLOW	---		12100	Feb 27	155000[a]	Dec 3 1982
INSTANTANEOUS PEAK STAGE	---		14.63	Feb 27	35.77	Dec 3 1982
INSTANTANEOUS LOW FLOW	---		24	Sep 19,20	8.0	Aug 28 1936
ANNUAL RUNOFF (INCHES)	18.13		6.66		16.18	
10 PERCENT EXCEEDS	2600		1180		2320	
50 PERCENT EXCEEDS	292		160		339	
90 PERCENT EXCEEDS	37		53		53	

[a]Discharge determined by indirect method.

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, 111,000 ac-ft, June 21 and 22, elevation, 364.91 ft on June 21; minimum, 31,400 ac-ft, Feb. 12 and 13, elevation, 354.85 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	359.79	359.95	359.98	356.73	355.21	360.30	356.53	358.77	359.99	362.20	359.77	359.91
2	359.79	360.06	359.96	356.52	355.17	359.73	356.57	358.87	359.91	361.85	359.79	359.91
3	359.81	360.02	359.98	356.56	355.13	359.22	356.64	358.95	359.87	361.57	359.83	359.91
4	359.87	360.02	360.03	357.41	355.12	358.67	356.71	359.04	359.77	361.32	359.85	359.91
5	359.82	360.06	360.10	357.48	355.07	358.20	356.72	359.12	359.73	361.11	359.89	359.90
6	359.83	360.10	360.12	357.52	355.03	357.72	356.77	359.21	359.70	360.95	359.90	359.86
7	359.83	360.13	360.10	357.46	354.99	357.26	356.80	359.26	359.67	360.86	359.90	359.84
8	359.93	360.17	360.08	357.32	354.96	356.80	356.96	359.31	359.70	361.08	359.90	359.83
9	360.11	360.21	360.01	357.14	354.92	356.40	356.86	359.39	359.71	361.20	359.89	359.82
10	360.07	360.23	360.29	356.95	354.86	356.03	356.89	359.46	359.73	361.12	359.89	359.86
11	360.02	360.24	360.59	356.75	354.86	355.78	356.96	359.47	359.76	361.01	359.88	359.86
12	359.94	360.22	361.06	356.57	354.85	355.53	357.10	359.52	359.78	360.89	359.87	359.88
13	359.93	360.20	361.53	356.50	354.85	355.32	357.22	359.64	359.81	360.76	359.85	359.88
14	359.91	360.20	361.94	356.29	355.02	355.17	357.33	359.65	359.95	360.61	359.82	359.87
15	359.89	360.17	362.03	356.17	355.02	355.09	357.43	359.68	360.07	360.50	359.79	359.87
16	359.87	360.15	361.89	356.06	355.03	355.10	357.54	359.71	360.06	360.39	359.79	359.83
17	359.93	360.13	361.63	355.93	354.96	355.05	357.72	359.73	360.23	360.29	359.77	359.81
18	359.89	360.11	361.36	355.83	356.23	355.01	357.80	359.75	361.91	360.23	359.81	359.80
19	359.88	360.10	361.02	355.73	358.09	355.03	357.88	359.85	364.37	360.13	359.79	359.77
20	359.87	360.10	360.73	355.69	359.03	355.23	357.93	359.88	364.82	360.08	359.81	359.74
21	359.85	360.09	360.30	355.55	359.29	355.45	358.13	359.91	364.91	360.11	359.78	359.77
22	359.85	360.06	359.94	355.47	359.24	356.17	358.15	359.94	364.87	360.07	359.78	359.74
23	359.81	360.03	359.53	355.43	358.79	356.55	358.20	359.97	364.72	360.04	359.78	359.73
24	359.78	360.08	359.23	355.35	358.36	356.61	358.31	359.98	364.46	360.00	359.83	359.88
25	359.78	360.06	358.77	355.26	357.81	356.55	358.41	360.02	364.13	359.94	359.81	359.94
26	359.81	360.04	358.38	355.15	357.38	356.43	358.47	360.02	363.75	359.89	359.88	359.91
27	359.83	360.03	357.98	355.10	358.52	356.29	358.52	360.11	363.59	359.85	359.88	359.90
28	359.86	360.02	357.61	355.09	360.50	356.20	358.60	360.16	363.30	359.78	359.90	359.91
29	359.87	360.02	357.32	355.15	360.65	356.25	358.66	360.13	362.97	359.85	359.91	359.91
30	359.89	360.01	357.04	355.20	---	356.46	358.73	360.09	362.57	359.83	359.91	359.91
31	359.90	---	356.91	355.25	---	356.51	---	360.05	---	359.78	359.91	---
MEAN	359.88	360.10	359.92	356.15	356.52	356.52	357.55	359.63	361.59	360.56	359.84	359.86
MAX	360.11	360.24	362.03	357.52	360.65	360.30	358.73	360.16	364.91	362.20	359.91	359.94
MIN	359.78	359.95	356.91	355.09	354.85	355.01	356.53	358.77	359.67	359.78	359.77	359.73

07039000 WAPPAPELLO LAKE AT WAPPAPELLO, MO--Continued

RESERVOIR STORAGE (ACRE-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	63200	64500	64800	41700	33200	67500	40500	55500	64800	84700	63000	64200
2	63200	65400	64600	40400	33000	62700	40700	56200	64200	81500	63200	64200
3	63300	65100	64800	40700	32800	58800	41200	56800	63900	78900	63500	64200
4	63900	65100	65200	46100	32700	54800	41600	57500	63000	76500	63700	64200
5	63400	65400	65800	46500	32500	51400	41700	58000	62700	74600	64000	64100
6	63500	65800	65900	46800	32300	48200	42000	58700	62500	73200	64100	63800
7	63500	66000	65800	46400	32100	45100	42200	59100	62200	72400	64100	63600
8	64400	66400	65600	45500	31900	42200	43200	59500	62500	74400	64100	63500
9	65900	66700	65000	44300	31700	39700	42500	60100	62600	75500	64000	63400
10	65500	66900	67400	43100	31500	37500	42700	60600	62700	74700	64000	63800
11	65100	67000	70000	41900	31500	36100	43200	60700	63000	73800	63900	63800
12	64400	66800	74200	40700	31400	34800	44000	61100	63100	72700	63900	63900
13	64400	66600	78500	40300	31400	33700	44800	62000	63400	71600	63700	63900
14	64200	66600	82300	39000	32200	33000	45500	62100	64500	70200	63400	63900
15	64000	66400	83100	38300	32200	32600	46200	62300	65500	69200	63200	63900
16	63900	66200	81800	37700	32300	32600	46900	62600	65400	68300	63200	63500
17	64400	66000	79400	37000	31900	32400	48200	62700	66900	67400	63000	63400
18	64000	65900	76900	36400	38700	32200	48700	62900	82000	66900	63400	63300
19	63900	65800	73800	35800	50600	32300	49200	63700	106000	66000	63200	63000
20	63900	65800	71300	35600	57400	33300	49600	63900	110000	65600	63400	62800
21	63700	65700	67500	34900	59300	34400	50900	64200	111000	65900	63100	63000
22	63700	65400	64400	34500	58900	38300	51100	64400	111000	65500	63100	62800
23	63400	65200	61100	34300	55700	40600	51400	64700	109000	65300	63100	62700
24	63100	65600	58900	33900	52500	41000	52200	64800	107000	64900	63500	63900
25	63100	65400	55500	33400	48800	40600	52900	65100	103000	64400	63400	64400
26	63400	65300	52700	32900	45900	39900	53300	65100	99700	64000	63900	64200
27	63500	65200	49900	32600	53700	39000	53700	65900	98100	63700	63900	64100
28	63800	65100	47400	32600	69200	38500	54300	66300	95200	63100	64100	64200
29	63900	65100	45500	32900	70600	38800	54700	66000	92000	63700	64200	64200
30	64000	65000	43700	33100	---	40000	55200	65700	88200	63500	64200	64200
31	64100	---	42800	33400	---	40400	---	65400	---	63100	64200	---
MEAN	63900	65800	65000	38500	41700	41000	47100	62100	79800	69800	63600	63700
MAX	65900	67000	83100	46800	70600	67500	55200	66300	111000	84700	64200	64400
MIN	63100	64500	42800	32600	31400	32200	40500	55500	62200	63100	63000	62700

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.--No estimated daily discharges. Records fair. Flow completely regulated by Wappapello Lake (station 07039000), 1.25 mi upstream. U.S. Army Corps of Engineers gage-height and satellite telemeters 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, August 1915 (stage unknown).

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	52	56	227	948	409	4660	1050	42	660	2400	166	87
2	52	55	226	942	414	4410	916	43	659	2120	88	86
3	52	56	228	1160	413	4080	820	43	655	1850	84	85
4	52	56	228	1420	411	3740	718	43	538	1590	84	85
5	52	56	230	1450	412	3390	677	43	453	1370	120	136
6	52	56	317	1610	411	3070	579	43	311	1230	166	115
7	52	56	499	1620	410	2820	573	43	152	1150	167	103
8	56	56	670	1620	409	2570	625	43	63	1140	166	95
9	188	57	793	1610	409	2330	617	45	59	1150	166	96
10	417	129	873	1550	408	2010	410	45	58	1140	164	95
11	429	230	958	1430	407	1710	237	45	57	1100	163	94
12	345	236	996	1290	409	1490	61	46	56	1040	163	95
13	227	236	1100	1140	438	1270	47	46	187	991	164	93
14	222	235	1420	1000	496	1070	47	45	451	861	164	93
15	221	234	1840	926	550	938	46	45	472	753	152	91
16	221	233	2130	915	549	862	46	45	473	704	100	90
17	222	232	2310	910	567	824	45	46	585	611	96	90
18	221	231	2320	843	1220	756	44	46	602	600	96	90
19	220	232	2300	748	2240	757	45	46	788	536	94	90
20	219	231	2290	739	2490	838	44	46	1440	419	92	91
21	219	231	2270	710	2540	1170	43	46	2100	361	90	90
22	219	230	2250	616	2720	1380	43	45	2390	356	89	90
23	218	231	2170	604	3170	1510	44	113	2860	354	89	89
24	144	230	2070	601	3350	1740	45	201	2900	352	89	91
25	58	228	2040	599	3300	1830	43	270	2880	349	91	90
26	54	227	2020	546	3310	1800	43	353	2860	347	90	89
27	53	226	1920	429	3620	1700	43	375	2850	345	89	89
28	53	226	1700	308	4200	1520	43	493	2820	344	90	87
29	54	225	1500	229	4550	1210	43	657	2790	349	89	87
30	54	226	1180	224	---	1190	42	663	2670	344	88	86
31	55	---	972	302	---	1140	---	662	---	291	88	---
MEAN	153	175	1356	937	1525	1929	269	154	1195	856	117	92.9
MAX	429	236	2320	1620	4550	4660	1050	663	2900	2400	167	136
MIN	52	55	226	224	407	756	42	42	56	291	84	85
IN.	.13	.15	1.19	.82	1.26	1.70	.23	.14	1.02	.75	.10	.08

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

MEAN	422	960	2025	2392	2340	2728	2897	2515	1444	716	375	389
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD[a]	
ANNUAL MEAN	1750		729		1597	
HIGHEST ANNUAL MEAN					3534	1985
LOWEST ANNUAL MEAN					579	1954
HIGHEST DAILY MEAN	7400	Apr 18	4660	Mar 1	21800	Apr 16 1945
LOWEST DAILY MEAN	52	Sep 16,20,22	42	Apr 30,May 1	.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	52	Oct 1	43	Apr 25	.00	At Times
INSTANTANEOUS PEAK FLOW	---		4710	Mar 1	22300	Apr 16 1945
INSTANTANEOUS PEAK STAGE	---		22.11	Mar 1	31.34	May 29 1991
INSTANTANEOUS LOW FLOW	---		40	Apr 20,28	.00	Several Years
ANNUAL RUNOFF (INCHES)	18.13		7.57		16.55	
10 PERCENT EXCEEDS	5090		2190		4080	
50 PERCENT EXCEEDS	499		330		692	
90 PERCENT EXCEEDS	54		46		42	

[a]Post-regulation period water years 1942-1997 and 1999-2000.

07042450 ST. JOHNS DITCH NEAR HENDERSON MOUND, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 36°40'26", long 89°28'30", in NE $^1/_4$ 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.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
OCT												
19...	1510	57	11.2	110	8.0	288	15.1	K17	40	K23	118	120
NOV												
03...	0820	55	9.0	74	7.4	294	7.1	500	1100	K140	111	114
DEC												
15...	1355	285	9.8	80	7.2	197	6.7	K500	>6000	K21000	54	54
JAN												
11...	0850	410	10.2	86	7.3	269	8.7	210	330	830	82	82
FEB												
08...	1300	82	8.9	74	7.9	276	8.5	400	K300	23	103	105
MAR												
14...	0945	280	9.6	88	7.8	256	11.9	520	720	160	100	101
APR												
10...	1440	325	9.3	93	7.6	265	15.9	K120	240	K73	103	106
MAY												
10...	0955	311	7.1	75	7.2	263	17.8	58	200	370	110	112
JUN												
19...	1425	352	6.9	83	7.6	219	24.8	2000	4700	2500	70	69
JUL												
25...	0825	72	6.7	77	7.6	280	22.0	120	210	750	115	117
AUG												
09...	0930	79	6.1	76	7.8	275	26.8	130	130	300	108	108
SEP												
13...	1000	44	5.7	66	7.5	284	22.9	86	190	400	109	110

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)
OCT												
19...	146	0	--	--	--	--	--	--	--	--	<.020	.18
NOV												
03...	139	0	130	41.5	7.19	1.8	9.0	13.6	.2	16.5	<.020	.19
DEC												
15...	66	0	--	--	--	--	--	--	--	--	<.020	1.1
JAN												
11...	100	0	120	37.2	6.73	1.5	5.6	9.1	.1	28.8	.051	.40
FEB												
08...	128	0	--	--	--	--	--	--	--	--	<.020	.15
MAR												
14...	123	0	--	--	--	--	--	--	--	--	<.020	.17
APR												
10...	129	0	--	--	--	--	--	--	--	--	<.020	.16
MAY												
10...	136	0	120	37.3	6.80	1.4	6.2	8.1	.2	16.5	<.020	.60
JUN												
19...	84	0	--	--	--	--	--	--	--	--	.085	.74
JUL												
25...	143	0	140	42.9	8.05	1.3	9.2	9.6	.2	16.2	<.020	.20
AUG												
09...	132	0	--	--	--	--	--	--	--	--	<.020	.32
SEP												
13...	134	0	--	--	--	--	--	--	--	--	<.020	.30

K--Results based on colony count outside the acceptable range (non-ideal colony count).

07042450 ST. JOHNS DITCH NEAR HENDERSON MOUND, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L) (00340)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (UG/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT 19...	<.050	<.010	.132	.151	.185	--	--	--	--	--	--	--
NOV 03...	.181	<.010	.204	.168	.248	<10	4	182	25	59	<8.0	<.1
DEC 15...	1.21	.044	.267	.234	.460	--	--	--	--	--	--	--
JAN 11...	.316	.010	.142	.121	.254	<10	20	177	263	447	<8.0	<.1
FEB 08...	.230	<.010	.125	.111	.189	--	--	--	--	--	--	--
MAR 14...	.174	<.010	.120	.099	.211	--	--	--	--	--	--	--
APR 10...	.193	<.010	.145	.126	.124	--	--	--	--	--	--	--
MAY 10...	.240	.026	.124	.082	.378	<10	47	173	29	738	<8.0	<.1
JUN 19...	.691	.018	.149	.132	.367	--	--	--	--	--	--	--
JUL 25...	.341	<.010	.235	.204	.302	<10	15	185	16	224	<8.0	<.1
AUG 09...	.304	<.010	.239	.208	.310	--	--	--	--	--	--	--
SEP 13...	.072	<.010	.272	.239	.339	--	--	--	--	--	--	--

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)
NOV 03...	<10	100	<100	<1	93	<.3	60	<31	<.003	<.002	<.002
JAN 11...	<10	230	<100	1	153	<.3	107	<31	--	--	--
MAR 14...	--	--	--	--	--	--	--	--	<.003	<.002	<.002
APR 10...	--	--	--	--	--	--	--	--	<.003	.008	.013
MAY 10...	<10	70	<100	2	27	--	55	35	<.003	.039	.310
JUN 19...	--	--	--	--	--	--	--	--	<.003	<.002	.306
JUL 25...	<10	30	<100	<1	30	<.3	32	<31	<.003	<.002	<.002

DATE	ATRAZINE, WATER, DISS, REC (µg/L) (39632)	METHYL AZINPHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	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)	DIAZINON, DISSOLVED (µg/L) (39572)
NOV 03...	.006	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	.008
MAR 14...	<.001	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
APR 10...	.123	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
MAY 10...	.784	<.001	<.002	<.002	<.003	<.003	<.004	.009	<.002	E.033	E.003
JUN 19...	.682	<.001	<.002	<.002	<.003	<.003	<.004	.007	<.002	E.041	<.010
JUL 25...	.026	<.001	<.002	<.002	<.003	E.013	<.004	<.004	<.002	<.002	E.003

E--Laboratory estimated value.

07042450 ST. JOHNS DITCH NEAR HENDERSON MOUND, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 0.7 µ GF, REC (µg/L) (82666)	MALATHION, DISSOLVED (µg/L) (39532)	METOLACHLOR WATER DISSOLV (µg/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (µg/L) (82630)
NOV											
03...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.008	<.004
MAR											
14...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.005	<.004
APR											
10...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.074	<.004
MAY											
10...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.116	.020
JUN											
19...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.098	.010
JUL											
25...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.041	<.004

DATE	MOLINATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	PARATHION, DISSOLVED (µg/L) (39542)	METHYL PARATHION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	PEBULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDIMETHALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PROMETON, WATER, DISS, REC (µg/L) (04037)	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)
NOV											
03...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
MAR											
14...	<.004	<.003	<.004	<.020	<.004	<.004	<.002	<.018	<.007	<.004	<.013
APR											
10...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
MAY											
10...	.006	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
JUN											
19...	.500	<.003	<.004	<.040	<.004	.059	<.002	<.018	<.007	.013	<.013
JUL											
25...	.488	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013

DATE	PRONAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	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)	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)	ALPHA BHC DISSOLVED (µg/L) (34253)	PERMETHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	P,P' DDE DISSOLV (µg/L) (34653)
NOV											
03...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
MAR											
14...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
APR											
10...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
MAY											
10...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
JUN											
19...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	.005	<.002	<.005	<.006
JUL											
25...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006

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.--Estimated daily discharges: Jan. 11 to March 1. Water-discharge records good except periods of estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station. Little River Ditch 1 flows into Little River Ditch 251 at point 35.3 mi downstream.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	48	49	82	108	550	231	121	210	125	172	36
2	30	45	49	88	105	363	212	118	171	114	160	37
3	30	39	55	3190	102	304	198	125	160	103	119	37
4	30	40	54	6040	100	278	187	129	160	102	87	37
5	31	41	58	3470	98	254	182	125	152	97	74	35
6	32	43	51	1960	94	234	178	146	135	91	72	34
7	32	42	49	1350	93	214	182	145	121	103	67	29
8	38	43	49	773	92	222	190	140	113	98	63	33
9	58	44	51	498	91	204	170	201	103	99	55	39
10	48	44	111	373	90	189	173	183	98	101	48	43
11	44	44	207	330	89	197	162	167	87	93	44	45
12	47	44	390	280	88	190	156	140	84	87	41	44
13	45	44	692	250	102	179	153	132	79	81	39	40
14	41	44	792	225	135	175	156	127	76	71	38	36
15	40	44	523	210	128	176	158	125	79	65	38	35
16	41	45	314	195	125	221	263	127	78	61	35	33
17	39	45	204	180	175	209	320	129	81	60	28	34
18	39	46	145	170	1500	194	245	123	507	71	29	34
19	40	49	123	162	2500	250	203	114	1580	73	35	34
20	42	47	111	155	1700	1080	171	109	1120	80	39	34
21	42	48	98	150	1400	1150	158	107	778	77	40	34
22	42	49	93	147	1050	720	151	100	576	66	38	34
23	43	53	90	144	850	434	160	98	335	59	34	35
24	42	48	88	137	740	325	160	100	209	55	34	45
25	44	46	85	133	670	267	151	131	151	54	41	71
26	45	47	86	130	3000	244	145	722	137	53	73	82
27	46	49	85	127	3750	248	144	2750	229	46	116	73
28	45	48	86	123	1800	257	135	1750	237	47	81	62
29	47	47	85	119	880	229	130	878	176	206	64	54
30	46	46	84	116	---	251	129	465	139	337	47	50
31	43	---	85	112	---	258	---	281	---	237	39	---
MEAN	40.7	45.4	163	691	747	325	178	326	272	97.2	61.0	42.3
MAX	58	53	792	6040	3750	1150	320	2750	1580	337	172	82
MIN	30	39	49	82	88	175	129	98	76	46	28	29
IN.	.10	.11	.42	1.77	1.79	.83	.44	.84	.67	.25	.16	.10

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

MEAN	171	435	644	792	873	944	872	730	400	265	186	169
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	155	88.7	70.9	47.6	27.4
(WY)	1954	2000	1954	1981	1963	1981	1971	1949	1988	1954	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	504		248		540	
HIGHEST ANNUAL MEAN					1261	1973
LOWEST ANNUAL MEAN					134	1954
HIGHEST DAILY MEAN	9910	Jan 23	6040	Jan 4	11700	Feb 15 1989
LOWEST DAILY MEAN	22	Sep 8	28	Aug 17	21	Sep 18 1954
ANNUAL SEVEN-DAY MINIMUM	24	Sep 16	31	Oct 1	24	Sep 13 1954
INSTANTANEOUS PEAK FLOW	---		6680	Jan 4	12000	Feb 15 1989
INSTANTANEOUS PEAK STAGE	---		14.05	Jan 4	19.30	Feb 15 1989
INSTANTANEOUS LOW FLOW	---		26	Aug 17,18	20	Sep 8 1999
ANNUAL RUNOFF (INCHES)	15.22		7.49		16.32	
10 PERCENT EXCEEDS	1070		443		1280	
50 PERCENT EXCEEDS	184		102		203	
90 PERCENT EXCEEDS	31		39		78	

07046250 LITTLE RIVER DITCHES NEAR RIVES, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 36°05'25", long 90°04'47", in NE $^1/_4$ NE $^1/_4$ sec.28, T.17 N., R.9 E., Dunklin County, Hydrologic Unit 08020204. 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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
OCT 19...	1150	123	6.9	68	7.6	304	15.2	K23	K48	K20	122	124
NOV 02...	1215	147	9.4	95	7.9	391	16.8	59	58	110	158	163
DEC 14...	1000	10900	10.3	84	6.6	128	6.6	>8000	600	2200	23	23
JAN 19...	0945	595	9.8	80	7.6	307	6.9	K12	K19	K42	115	118
FEB 09...	0850	575	8.7	71	8.0	368	6.9	K34	120	56	155	155
MAR 21...	1710	7970	9.1	81	7.2	118	10.7	K77	K220	1200	52	52
APR 11...	1100	659	9.5	94	7.9	454	15.5	K8	K10	K24	153	155
MAY 09...	0910	592	6.7	79	8.3	398	23.2	110	110	120	156	159
JUN 20...	1350	5200	5.0	61	7.2	131	25.6	420	3000	2100	38	38
JUL 18...	0940	463	5.4	69	8.1	409	27.6	100	100	68	155	154
AUG 08...	1000	461	5.0	66	7.9	348	29.4	K21	46	110	118	120
SEP 12...	0940	242	5.2	65	8.1	416	26.5	K24	42	140	162	159

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)
OCT 19...	152	0	--	--	--	--	--	--	--	--	<.020	.68
NOV 02...	199	0	170	49.4	12.5	4.3	12.1	12.5	.2	28.5	<.020	.46
DEC 14...	28	0	--	--	--	--	--	--	--	--	.039	1.6
JAN 19...	144	0	140	40.0	10.5	2.8	10.0	10.9	.2	27.1	.042	.29
FEB 09...	189	0	--	--	--	--	--	--	--	--	<.020	.16
MAR 21...	64	0	--	--	--	--	--	--	--	--	.087	1.5
APR 11...	190	0	--	--	--	--	--	--	--	--	<.020	.29
MAY 09...	191	0	180	49.5	13.3	1.6	15.5	14.2	.2	27.4	<.020	.45
JUN 20...	47	0	--	--	--	--	--	--	--	--	<.020	1.2
JUL 18...	188	0	170	48.6	13.0	2.5	15.1	14.3	.1	26.3	<.020	.71
AUG 08...	146	0	--	--	--	--	--	--	--	--	.026	.74
SEP 12...	194	0	--	--	--	--	--	--	--	--	<.020	.42

K--Results based on colony count outside the acceptable range (non-ideal colony count).

07046250 LITTLE RIVER DITCHES NEAR RIVES, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L) (00340)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (UG/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
OCT 19...	<.050	<.010	.085	.093	.201	--	--	--	--	--	--	--
NOV 02...	<.050	<.010	.102	.070	.172	<10	30	263	33	669	<8.0	<.1
DEC 14...	2.03	.088	.268	.279	.661	--	--	--	--	--	--	--
JAN 19...	.208	.010	.115	.092	.155	<10	18	191	282	450	<8.0	<.1
FEB 09...	<.050	<.010	.070	.059	.099	--	--	--	--	--	--	--
MAR 21...	.716	.062	.157	.133	.470	--	--	--	--	--	--	--
APR 11...	<.050	<.010	.078	.064	.136	--	--	--	--	--	--	--
MAY 09...	<.050	<.010	.115	.075	.198	36	41	248	39	811	<8.0	<.1
JUN 20...	<.050	<.010	.153	.125	--	--	--	--	--	--	--	--
JUL 18...	<.050	<.010	.151	.125	.236	15	45	246	40	862	E3.1	.3
AUG 08...	<.050	<.010	.155	.130	.237	--	--	--	--	--	--	--
SEP 12...	<.050	<.010	.153	.129	.215	--	--	--	--	--	--	--

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)
NOV 02...	<10	40	<100	E1	65	<.3	25	<31	<.003	<.002	<.002
JAN 19...	<10	190	<100	1	103	<.3	88	<31	--	--	--
MAR 21...	--	--	--	--	--	--	--	--	<.003	.017	.029
APR 11...	--	--	--	--	--	--	--	--	<.003	.108	.006
MAY 09...	<10	20	<100	2	83	<.3	E16	<31	<.003	.283	.018
JUN 20...	--	--	--	--	--	--	--	--	<.003	.023	.417
JUL 18...	<10	20	<100	1	8	<.3	E18	E20	<.003	<.002	<.002

E--Laboratory estimated value.

07046250 LITTLE RIVER DITCHES NEAR RIVES, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	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 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)
NOV											
02...	.016	<.001	<.002	<.002	<.003	<.003	<.004	.007	<.002	<.002	<.002
MAR											
21...	.335	<.001	<.002	<.002	E.010	<.003	<.004	.092	<.002	E.005	<.002
APR											
11...	.275	<.001	<.002	<.002	<.003	<.003	<.004	.012	<.002	E.007	<.002
MAY											
09...	2.85	<.001	<.002	<.002	<.003	<.003	<.004	.041	<.002	E.170	<.002
JUN											
20...	1.91	E.051	<.002	<.002	<.003	E.013	<.004	.093	<.002	E.170	<.010
JUL											
18...	.099	<.001	<.002	<.002	<.003	E.039	<.004	.275	<.002	E.025	<.002

DATE	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)	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)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)
NOV											
02...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.034	<.004
MAR											
21...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.211	<.004
APR											
11...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.040	<.004
MAY											
09...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.874	<.004
JUN											
20...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	.008	2.95	.343
JUL											
18...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.305	<.004

E--Laboratory estimated value.

07046250 LITTLE RIVER DITCHES NEAR RIVES, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	MOLINATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	PARATHION, DISSOLVED (µg/L) (39542)	METHYL PARATHION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	PEBULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDIMETHALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PROMETON, WATER, DISS, REC (µg/L) (04037)	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)
NOV											
02...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
MAR											
21...	.012	<.003	<.004	<.015	<.004	<.020	<.002	<.018	<.007	<.004	<.013
APR											
11...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
MAY											
09...	.005	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
JUN											
20...	.320	<.003	<.004	<.006	<.004	.080	<.002	.019	<.007	.023	<.013
JUL											
18...	.126	<.003	<.004	<.030	<.004	<.004	<.002	<.018	<.007	<.004	<.013

DATE	PRONAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	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)	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)	ALPHA BHC DISSOLVED (µg/L) (34253)	PERMETHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	P,P' DDE DISSOLV (µg/L) (34653)
NOV											
02...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
MAR											
21...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	.010	<.002	<.005	<.006
APR											
11...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	.005	<.002	<.005	<.006
MAY											
09...	<.003	.088	<.010	<.007	<.013	<.002	<.001	.005	<.002	<.005	<.006
JUN											
20...	<.003	.015	<.010	<.007	<.013	.022	<.001	.017	<.002	<.005	<.006
JUL											
18...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006

07050150 ROARING RIVER SPRING NEAR CASSVILLE, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 36°35'30", long 93°50'00", in SE $^1/_4$ NE $^1/_4$ sec.27, T.22 N., R.27 W., Barry County, Hydrologic Unit 11010001. Sample 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) from November 1991 to October 1993.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
08...	1500	22	7.9	77	6.8	329	14.5	K90	120	K3	148
JAN											
25...	0810	20	8.4	80	6.9	463	13.5	22	100	35	164
MAR											
22...	0855	22	7.7	76	7.4	333	14.0	84	68	59	142
MAY											
16...	1005	27	8.0	78	7.8	348	14.0	K86	200	52	154
JUL											
18...	1410	60	10.7	106	6.8	311	14.6	28	26	K17	141
SEP											
06...	0825	42	5.8	57	7.1	345	14.6	31	45	K14	157

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
08...	153	186	0	160	60.1	3.08	.9	4.0	6.4	<.1	3.3
JAN											
25...	164	201	0	--	--	--	--	--	--	--	--
MAR											
22...	143	175	0	--	--	--	--	--	--	--	--
MAY											
16...	158	192	0	170	64.4	3.17	.9	4.1	8.4	<.1	5.2
JUL											
18...	140	171	0	--	--	--	--	--	--	--	--
SEP											
06...	157	191	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV											
08...	<.020	E.10	2.90	<.010	E.030	.029	<.050	<10	<1	187	<15
JAN											
25...	<.020	<.10	2.94	<.010	<.050	.018	<.050	--	--	--	--
MAR											
22...	<.020	E.10	2.53	<.010	<.050	.019	E.036	--	--	--	--
MAY											
16...	<.020	E.10	2.14	<.010	<.050	<.010	<.050	<10	<10	207	E9
JUL											
18...	<.020	.10	2.97	<.010	<.050	.020	<.050	--	--	--	--
SEP											
06...	<.020	<.10	2.98	<.010	<.050	.018	<.050	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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...	E18	<8.0	<.1	<10	<10	<100	<1	<2	<.3	44	<31
MAY											
16...	E16	<8.0	<.1	<10	E10	<100	<1	<2	<.3	45	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07050680 JONES BRANCH NEAR SPRINGFIELD, MO

LOCATION.--Lat 37°11'12", long 93°12'04", Greene County, in NE $^1/_4$ SW $^1/_4$ NE $^1/_4$ sec.27, T.29 N., R.21 W., Hydrologic Unit 11010002, 150 ft northeast of bridge on Leaning Tree Lane, 0.70 mi east of the junction of Highway 65 and State Highway D, then 0.64 mi north of Highway D (Sunshine).

DRAINAGE AREA.--1.29 mi^2.

PERIOD OF RECORD.--July 22, 1999 to current year.

REMARKS.--No estimated daily discharges. Records poor except those above 5 ft^3/s, which are fair.

EXTREMES FOR CURRENT YEAR.--For period July 22 to Sept. 30, maximum discharge, 3.7 ft^3/s, Aug. 13, gage height 1.44 ft; minimum 0.57 ft^3/s, Sept. 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	.82	.79
2	---	---	---	---	---	---	---	---	---	---	.80	.72
3	---	---	---	---	---	---	---	---	---	---	.75	.66
4	---	---	---	---	---	---	---	---	---	---	.70	.60
5	---	---	---	---	---	---	---	---	---	---	.79	.95
6	---	---	---	---	---	---	---	---	---	---	.75	.84
7	---	---	---	---	---	---	---	---	---	---	.65	.88
8	---	---	---	---	---	---	---	---	---	---	.60	.98
9	---	---	---	---	---	---	---	---	---	---	.70	.80
10	---	---	---	---	---	---	---	---	---	---	1.0	.90
11	---	---	---	---	---	---	---	---	---	---	1.1	.70
12	---	---	---	---	---	---	---	---	---	---	1.1	.71
13	---	---	---	---	---	---	---	---	---	---	2.3	.71
14	---	---	---	---	---	---	---	---	---	---	1.3	.68
15	---	---	---	---	---	---	---	---	---	---	1.1	.66
16	---	---	---	---	---	---	---	---	---	---	1.0	.62
17	---	---	---	---	---	---	---	---	---	---	.90	.64
18	---	---	---	---	---	---	---	---	---	---	.76	.68
19	---	---	---	---	---	---	---	---	---	---	.73	.68
20	---	---	---	---	---	---	---	---	---	---	.69	1.2
21	---	---	---	---	---	---	---	---	---	---	.73	.92
22	---	---	---	---	---	---	---	---	---	.70	.94	.77
23	---	---	---	---	---	---	---	---	---	.68	1.7	.74
24	---	---	---	---	---	---	---	---	---	.68	1.4	.67
25	---	---	---	---	---	---	---	---	---	.73	1.5	.63
26	---	---	---	---	---	---	---	---	---	.70	1.4	.58
27	---	---	---	---	---	---	---	---	---	.66	1.3	.57
28	---	---	---	---	---	---	---	---	---	.66	1.2	.64
29	---	---	---	---	---	---	---	---	---	.70	1.0	1.4
30	---	---	---	---	---	---	---	---	---	.67	.93	1.4
31	---	---	---	---	---	---	---	---	---	.66	.86	---
MEAN	---	---	---	---	---	---	---	---	---	---	1.02	.79
MAX	---	---	---	---	---	---	---	---	---	---	2.3	1.4
MIN	---	---	---	---	---	---	---	---	---	---	.60	.57
IN.	---	---	---	---	---	---	---	---	---	---	.91	.68

07050680 JONES BRANCH NEAR SPRINGFIELD, MO--Continued

LOCATION.--Lat 37°11'12", long 93°12'04", Greene County, in NE $^1/_4$ SW $^1/_4$ NE $^1/_4$ sec.27, T.29 N., R.21 W., Hydrologic Unit 11010002, 150 ft northeast of bridge on Leaning Tree Lane, 0.70 mi east of the junction of Highway 65 and State Highway D, then 0.64 mi north of Highway D (Sunshine).

DRAINAGE AREA.--1.29 mi^2.

PERIOD OF RECORD.--July 22, 1999 to current year.

REMARKS.--No estimated daily discharges. Records poor except those above 5 ft^3/s, which are fair.

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	.71	.22	.76	.80	.60	1.3	1.4	2.2	.73	4.2	7.8	.56
2	.51	.15	.71	.78	.62	1.4	1.3	1.1	.61	4.0	6.0	.56
3	.45	.20	5.0	1.8	.62	5.6	1.3	1.2	.51	22	4.9	.54
4	.34	.16	17	1.3	.49	5.0	1.2	.94	.53	31	4.1	.61
5	.34	.13	15	1.0	.28	3.6	1.1	.72	1.6	9.1	3.5	.60
6	.38	.11	5.0	1.1	.48	2.8	.99	.75	.91	5.8	3.2	.54
7	.34	.10	3.3	1.1	.51	2.1	.94	.79	.67	4.1	2.9	.52
8	1.1	.09	2.1	1.3	.44	1.8	.91	.69	.61	3.8	2.5	.50
9	5.0	.07	17	1.3	.49	1.7	.93	2.5	.59	3.4	2.1	.79
10	3.7	.06	34	1.2	.51	1.8	.89	1.8	.48	3.1	1.7	1.0
11	1.8	.07	9.9	1.2	.51	2.1	.84	1.2	1.1	2.7	1.5	.65
12	1.1	.08	5.9	1.1	.68	2.2	.83	1.0	1.4	173	1.4	1.3
13	1.1	.07	4.5	1.1	.76	2.1	.81	1.0	.96	80	1.4	.72
14	1.1	.07	3.3	1.1	.57	1.9	.72	.97	3.1	33	1.3	.52
15	1.0	.08	2.3	1.1	.51	1.8	.66	.96	2.6	14	1.3	.56
16	.81	.11	1.8	1.0	.43	1.8	.77	1.1	1.9	8.1	1.2	.60
17	.64	.11	1.5	1.0	6.8	1.8	.73	.99	22	5.8	1.2	.66
18	.77	.09	1.3	.97	13	1.9	.69	.89	8.3	4.5	1.5	.69
19	.89	.07	1.2	.95	6.0	2.0	.73	.80	4.3	3.8	1.2	.61
20	.53	.08	1.1	.87	4.3	1.7	.84	.77	5.3	13	1.1	.70
21	.50	.07	1.1	.80	3.1	1.6	.72	.83	30	6.2	1.1	.55
22	.46	.43	1.1	.73	2.2	1.5	.67	.81	8.7	13	.93	.52
23	.33	5.9	.99	.71	1.8	1.5	.66	.74	4.7	14	.87	.67
24	.30	2.9	.97	.70	1.6	1.4	.79	.62	3.9	7.7	.87	5.9
25	.33	1.5	.96	.69	1.6	1.3	.60	2.8	3.2	5.7	.79	2.0
26	.43	1.2	.95	.69	2.3	1.8	.64	2.6	2.9	4.6	.74	.88
27	.40	1.0	.92	.67	1.6	1.6	.68	2.3	2.4	5.3	.64	.59
28	.33	.88	.89	.66	1.4	1.2	.65	1.7	17	15	.61	.51
29	.28	.84	.90	.63	1.4	1.6	.62	1.3	9.1	41	.61	.51
30	.27	.79	.89	.56	---	2.1	.55	1.0	5.0	17	.62	.52
31	.23	---	.83	.56	---	1.6	---	.88	---	10	.62	---
MEAN	.85	.59	4.62	.95	1.92	2.05	.84	1.22	4.84	18.3	1.94	.86
MAX	5.0	5.9	34	1.8	13	5.6	1.4	2.8	30	173	7.8	5.9
MIN	.23	.06	.71	.56	.28	1.2	.55	.62	.48	2.7	.61	.50
IN.	.76	.51	4.13	.85	1.60	1.83	.73	1.09	4.18	16.38	1.74	.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	.85	.59	4.62	.95	1.92	2.05	.84	1.22	4.84	18.3	1.48	.83
MAX	.85	.59	4.62	.95	1.92	2.05	.84	1.22	4.84	18.3	1.94	.86
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	.85	.59	4.62	.95	1.92	2.05	.84	1.22	4.84	18.3	1.02	.79
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999	1999

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL MEAN	3.27		3.27	
HIGHEST ANNUAL MEAN			3.27	2000
LOWEST ANNUAL MEAN			3.27	2000
HIGHEST DAILY MEAN	173	Jul 12	173	Jul 12 2000
LOWEST DAILY MEAN	.06	Nov 10	.06	Nov 10 1999
ANNUAL SEVEN-DAY MINIMUM	.07	Nov 9	.07	Nov 9 1999
INSTANTANEOUS PEAK FLOW[a]	511	Jul 12	511	Jul 12 2000
INSTANTANEOUS PEAK STAGE	4.90	Jul 12	4.90	Jul 12 2000
INSTANTANEOUS LOW FLOW	.05	Nov 9-14,19-22	.05	Nov 9-14,19-22 1999
ANNUAL RUNOFF (INCHES)	34.55		34.48	
10 PERCENT EXCEEDS	5.8		5.0	
50 PERCENT EXCEEDS	1.0		.94	
90 PERCENT EXCEEDS	.43		.49	

[a]From rating extended above 156 ft^3/s.

07050690 PEARSON CREEK NEAR SPRINGFIELD, MO

LOCATION.--Lat 37°10'40", long 93°11'54, Greene County, in NW $^1/_4$ NW $^1/_4$ NE $^1/_4$ sec.35, T.29 N., R.21 W., 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.--No estimated daily discharges. Records fair. U.S.G.S. satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--For period July 21 to Sept. 30, maximum discharge 7.8 ft^3/s, Aug. 13, gage height 2.56 ft; minimum 1.5 ft^3/s, Sept. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	3.6	2.0
2	---	---	---	---	---	---	---	---	---	---	3.5	2.0
3	---	---	---	---	---	---	---	---	---	---	3.2	1.7
4	---	---	---	---	---	---	---	---	---	---	3.2	1.7
5	---	---	---	---	---	---	---	---	---	---	3.2	2.5
6	---	---	---	---	---	---	---	---	---	---	3.2	3.0
7	---	---	---	---	---	---	---	---	---	---	3.2	2.7
8	---	---	---	---	---	---	---	---	---	---	3.1	2.8
9	---	---	---	---	---	---	---	---	---	---	3.0	2.1
10	---	---	---	---	---	---	---	---	---	---	3.0	1.8
11	---	---	---	---	---	---	---	---	---	---	2.9	2.0
12	---	---	---	---	---	---	---	---	---	---	3.1	2.1
13	---	---	---	---	---	---	---	---	---	---	6.3	2.2
14	---	---	---	---	---	---	---	---	---	---	3.8	1.9
15	---	---	---	---	---	---	---	---	---	---	3.2	1.7
16	---	---	---	---	---	---	---	---	---	---	3.1	1.7
17	---	---	---	---	---	---	---	---	---	---	2.8	1.8
18	---	---	---	---	---	---	---	---	---	---	2.7	1.7
19	---	---	---	---	---	---	---	---	---	---	2.6	1.9
20	---	---	---	---	---	---	---	---	---	---	2.3	2.8
21	---	---	---	---	---	---	---	---	---	5.7	2.1	2.6
22	---	---	---	---	---	---	---	---	---	5.4	2.1	2.3
23	---	---	---	---	---	---	---	---	---	5.1	3.7	2.1
24	---	---	---	---	---	---	---	---	---	4.9	4.0	1.8
25	---	---	---	---	---	---	---	---	---	4.5	3.1	1.8
26	---	---	---	---	---	---	---	---	---	4.3	3.1	1.7
27	---	---	---	---	---	---	---	---	---	4.2	2.9	1.8
28	---	---	---	---	---	---	---	---	---	4.0	2.7	2.1
29	---	---	---	---	---	---	---	---	---	3.7	2.5	2.7
30	---	---	---	---	---	---	---	---	---	3.7	2.5	3.0
31	---	---	---	---	---	---	---	---	---	3.4	2.3	---
MEAN	---	---	---	---	---	---	---	---	---	---	3.10	2.13
MAX	---	---	---	---	---	---	---	---	---	---	6.3	3.0
MIN	---	---	---	---	---	---	---	---	---	---	2.1	1.7
IN.	---	---	---	---	---	---	---	---	---	---	.17	.11

07050690 PEARSON CREEK NEAR SPRINGFIELD, MO--Continued

LOCATION.--Lat 37°10'40", long 93°11'54, Greene County, in NW $^1/_4$ NW $^1/_4$ NE $^1/_4$ sec.35, T.29 N., R.21 W., 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.--No estimated daily discharges. Records fair. 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	2.8	3.2	2.4	3.7	3.5	8.4	8.8	7.6	3.3	11	33	3.3
2	2.4	3.1	2.4	3.6	3.6	8.0	8.4	6.1	3.0	9.5	27	3.2
3	2.3	2.9	20	6.7	3.8	18	7.8	5.3	2.8	26	22	2.9
4	2.3	2.9	41	7.1	3.5	24	7.3	5.3	2.8	37	19	2.8
5	2.3	3.0	40	5.6	3.1	24	6.9	4.2	6.0	16	16	3.1
6	2.4	3.0	23	4.8	3.2	21	6.7	4.1	3.6	11	14	3.3
7	2.2	3.0	16	4.3	3.2	18	6.4	4.5	2.8	8.0	12	3.1
8	4.5	2.8	11	5.2	3.1	15	5.7	4.1	2.5	6.9	11	3.0
9	15	2.7	38	6.3	3.1	13	5.5	8.3	2.4	6.2	10	2.7
10	14	2.7	94	5.7	3.2	12	5.3	9.0	2.3	5.6	9.1	2.8
11	9.2	2.5	48	5.3	3.1	12	5.2	6.6	4.4	5.0	8.4	2.8
12	5.8	2.5	36	5.0	3.2	12	4.8	5.4	7.6	686	7.7	3.6
13	4.2	2.6	28	4.6	3.2	12	4.6	4.5	4.1	210	7.2	4.0
14	3.6	2.4	22	4.3	3.1	11	4.5	3.9	13	113	6.7	3.4
15	3.5	2.2	17	4.2	3.0	10	4.4	3.7	14	69	6.3	3.2
16	3.2	2.2	13	4.2	2.8	9.9	4.8	4.2	8.5	49	6.0	2.9
17	2.9	2.2	11	4.0	14	9.2	4.5	3.9	35	39	5.8	2.5
18	2.8	2.3	9.3	3.9	38	8.9	4.3	3.8	23	33	6.3	2.4
19	3.1	2.4	8.3	3.8	35	9.1	4.3	3.5	14	27	5.6	2.6
20	3.0	2.4	7.3	3.8	27	8.5	4.8	3.2	13	39	5.0	2.6
21	3.1	2.5	6.5	4.0	21	7.9	4.4	3.2	52	33	4.7	2.8
22	3.0	3.0	6.1	4.0	16	7.5	4.2	3.2	29	39	4.4	2.8
23	2.8	21	5.6	3.8	14	7.1	4.1	3.0	19	47	4.4	2.9
24	2.6	12	5.0	3.8	12	6.8	4.6	3.2	13	37	4.2	10
25	2.7	6.4	4.6	3.6	10	6.5	4.1	11	9.9	30	3.9	8.7
26	2.7	4.0	4.4	3.5	12	7.6	4.0	12	8.1	24	3.7	6.5
27	2.8	3.4	4.4	3.5	10	8.9	4.1	12	6.9	22	3.5	4.7
28	2.7	2.9	4.2	3.6	9.4	7.8	3.9	9.7	28	31	3.5	3.6
29	2.9	2.6	4.1	3.5	8.8	8.1	3.8	6.8	21	76	3.5	2.7
30	3.3	2.4	4.0	3.4	---	9.6	3.7	5.1	13	58	3.5	2.4
31	3.4	---	3.8	3.4	---	9.2	---	4.2	---	42	3.4	---
MEAN	3.98	3.77	17.4	4.39	9.62	11.3	5.20	5.63	12.3	59.6	9.06	3.58
MAX	15	21	94	7.1	38	24	8.8	12	52	686	33	10
MIN	2.2	2.2	2.4	3.4	2.8	6.5	3.7	3.0	2.3	5.0	3.4	2.4
IN.	.22	.20	.96	.24	.49	.62	.28	.31	.65	3.27	.50	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	3.98	3.77	17.4	4.39	9.62	11.3	5.20	5.63	12.3	59.6	6.08	2.86
MAX	3.98	3.77	17.4	4.39	9.62	11.3	5.20	5.63	12.3	59.6	9.06	3.58
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	3.98	3.77	17.4	4.39	9.62	11.3	5.20	5.63	12.3	59.6	3.10	2.13
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999	1999

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL MEAN	12.2		12.2	
HIGHEST ANNUAL MEAN			12.2	2000
LOWEST ANNUAL MEAN			12.2	2000
HIGHEST DAILY MEAN	686	Jul 12	686	Jul 12 2000
LOWEST DAILY MEAN	2.2	Oct 7	1.7	Sep 3 1999
ANNUAL SEVEN-DAY MINIMUM	2.3	Nov 14	1.8	Sep 13 1999
INSTANTANEOUS PEAK FLOW	2200	Jul 12	2200	Jul 12 2000
INSTANTANEOUS PEAK STAGE	7.53	Jul 12	7.53	Jul 12 2000
INSTANTANEOUS LOW FLOW	1.9	Oct 7	1.5	Sep 3 1999
ANNUAL RUNOFF (INCHES)	7.93		7.91	
10 PERCENT EXCEEDS	25		22	
50 PERCENT EXCEEDS	4.8		4.2	
90 PERCENT EXCEEDS	2.7		2.4	

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.--Estimated daily discharges: July 2-4, 15-18, Aug. 2, 7, and 8. Records fair except for estimated daily discharges, which are poor. Flows are affected by the pumping of Blackman Water Treatment Plant, 1.0 mi upstream. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	7.2	12	21	18	88	116	35	20	73	93	5.5
2	4.4	6.2	12	17	19	76	109	35	18	65	65	6.2
3	5.3	6.3	22	24	13	106	101	33	17	90	57	6.0
4	5.0	6.6	37	23	12	259	91	33	15	110	37	5.2
5	4.9	6.9	148	31	14	267	71	30	18	59	30	4.8
6	4.7	7.1	96	28	13	208	54	29	16	39	25	5.3
7	4.5	7.3	57	23	13	183	64	29	14	22	23	5.3
8	7.5	7.6	32	24	11	146	66	27	13	18	21	5.1
9	19	7.4	70	22	15	111	62	32	11	18	19	5.1
10	23	7.4	631	24	18	92	55	37	11	26	15	4.7
11	15	7.3	321	25	16	85	51	32	12	14	14	4.9
12	11	7.4	198	26	18	77	50	29	18	1560	15	6.3
13	7.8	7.4	148	21	16	73	48	27	13	463	14	7.7
14	6.9	7.2	116	21	16	78	48	25	21	253	12	6.7
15	6.3	7.2	92	18	18	75	46	23	28	150	11	5.9
16	5.9	7.4	73	18	15	70	46	24	23	100	14	5.8
17	5.5	7.5	62	13	34	82	44	24	90	80	15	5.5
18	5.2	7.8	53	12	165	90	43	23	193	60	11	5.0
19	5.4	7.7	48	9.4	311	90	41	22	154	38	12	4.8
20	5.2	8.0	37	17	222	77	42	21	99	98	15	4.6
21	5.1	8.5	27	14	160	68	40	20	470	98	13	5.0
22	5.3	9.6	21	14	124	73	38	19	493	94	13	4.9
23	5.2	24	22	16	97	52	37	17	267	158	13	5.2
24	5.2	15	22	15	79	62	38	17	174	120	12	9.3
25	5.3	17	16	21	68	69	36	28	121	80	11	14
26	5.5	17	14	15	71	69	35	35	92	52	10	11
27	6.2	15	19	18	133	101	33	37	68	53	9.2	11
28	7.1	12	27	19	125	118	32	35	121	68	8.7	10
29	6.6	11	21	14	103	94	31	30	119	191	6.6	8.8
30	6.3	12	14	15	---	112	29	25	86	164	6.3	7.8
31	6.4	---	14	17	---	122	---	22	---	120	6.1	---
MEAN	7.05	9.53	80.1	19.2	66.8	106	53.2	27.6	93.8	146	20.2	6.58
MAX	23	24	631	31	311	267	116	37	493	1560	93	14
MIN	1.8	6.2	12	9.4	11	52	29	17	11	14	6.1	4.6
IN.	.03	.04	.38	.09	.29	.49	.24	.13	.43	.69	.09	.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2000, BY WATER YEAR (WY)

MEAN	98.4	256	289	217	269	422	441	394	196	108	37.7	112
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1956 - 2000	
ANNUAL MEAN	207		53.1		236	
HIGHEST ANNUAL MEAN					465	1985
LOWEST ANNUAL MEAN					52.8	1956
HIGHEST DAILY MEAN	5200	May 5	1560	Jul 12	24500	Sep 25 1993
LOWEST DAILY MEAN	1.8	Oct 1	1.8	Oct 1	.30	Sep 16 1956
ANNUAL SEVEN-DAY MINIMUM	3.9	Sep 25	4.4	Oct 1	.53	Sep 12 1956
INSTANTANEOUS PEAK FLOW	---		3770	Jul 12	41100	Sep 25 1993
INSTANTANEOUS PEAK STAGE	---		10.76	Jul 12	19.45	Sep 25 1993
INSTANTANEOUS LOW FLOW	---		1.6	Oct 1,2	.10	Sep 16 1956
ANNUAL RUNOFF (INCHES)	11.45		2.94		13.05	
10 PERCENT EXCEEDS	433		118		511	
50 PERCENT EXCEEDS	49		22		75	
90 PERCENT EXCEEDS	5.3		6.0		12	

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, 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 Jan. 1939, recorder 0.5 mi downstream and at datum 4.7 ft. lower.

REMARKS.--Estimated daily discharges: Aug. 30 to Sept. 23. Records poor.

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	2.4	3.0	4.0	1.9	7.5	2.8	5.6	51	2.6	15	35	1.8
2	1.4	1.0	4.0	2.1	1.9	20	5.1	5.0	7.4	20	31	1.6
3	2.3	1.3	114	46	2.7	78	4.3	4.3	2.7	207	27	1.6
4	2.6	1.2	241	7.3	1.6	14	4.2	3.4	88	32	25	1.8
5	1.2	1.3	34	4.3	1.3	9.2	4.3	2.9	18	12	23	1.7
6	1.2	1.0	11	3.5	1.2	7.6	4.6	7.6	3.9	8.6	20	1.6
7	1.6	1.1	7.6	3.2	1.1	6.7	4.7	3.4	3.6	6.9	19	1.5
8	17	1.5	5.9	16	1.1	6.6	4.1	2.4	2.9	5.6	17	1.4
9	101	1.5	267	4.7	1.0	5.3	4.0	54	2.7	4.7	17	1.3
10	11	1.2	89	3.6	1.0	4.6	4.1	7.6	4.6	4.4	16	1.3
11	4.4	1.5	19	3.2	.99	19	4.6	5.0	30	3.5	16	1.3
12	4.1	1.2	19	3.0	3.7	9.3	4.0	4.4	6.0	1030	15	18
13	4.0	1.4	11	2.5	1.3	6.4	3.8	3.2	4.5	91	14	2.0
14	5.5	1.4	8.9	2.4	1.0	5.0	3.7	2.8	63	38	14	1.6
15	4.9	1.3	8.2	2.1	.88	4.2	3.5	3.4	6.9	25	12	1.4
16	3.4	1.3	8.4	2.1	.81	4.0	12	4.9	15	19	11	1.3
17	3.3	1.4	7.0	2.0	133	3.2	3.3	2.8	209	15	11	1.2
18	2.1	2.1	6.1	2.0	58	14	3.0	2.5	15	12	35	1.2
19	2.3	4.2	5.4	2.0	13	6.7	3.1	2.4	9.5	9.2	6.0	1.1
20	2.5	2.0	5.0	1.7	9.2	3.6	10	2.2	76	123	5.0	1.1
21	1.9	2.1	4.6	1.7	7.5	2.8	3.4	2.1	152	15	4.9	1.0
22	2.1	29	4.5	1.7	6.6	2.5	2.7	1.9	16	174	4.0	1.0
23	1.8	180	4.0	1.6	5.7	2.5	4.5	1.7	12	38	3.6	5.0
24	2.2	11	3.6	1.8	4.9	3.1	4.5	28	11	13	3.3	90
25	2.9	7.0	3.3	1.7	8.2	2.5	2.8	39	7.4	8.6	3.2	15
26	2.6	6.0	3.1	1.4	16	31	2.8	24	11	8.2	3.0	4.6
27	1.8	5.6	3.3	1.4	3.9	8.7	2.0	23	6.0	28	2.8	2.9
28	1.0	5.1	3.1	1.8	3.2	4.5	1.9	6.9	154	184	2.8	2.1
29	1.4	4.4	2.8	1.9	2.9	28	1.8	4.2	15	188	2.4	1.7
30	1.9	4.0	2.2	1.6	---	17	1.6	3.3	9.2	54	2.2	1.4
31	2.8	---	2.1	1.9	---	6.6	---	2.8	---	41	2.0	---
MEAN	6.47	9.54	29.4	4.33	10.4	10.9	4.13	10.1	32.2	78.5	13.0	5.68
MAX	101	180	267	46	133	78	12	54	209	1030	35	90
MIN	1.0	1.0	2.1	1.4	.81	2.5	1.6	1.7	2.6	3.5	2.0	1.0
IN.	.38	.55	1.75	.26	.58	.65	.24	.60	1.85	4.67	.77	.33

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

MEAN	13.7	17.8	14.4	19.7	19.1	23.8	25.9	30.0	36.7	18.9	10.2	40.6
MAX	27.7	42.6	29.4	59.7	38.3	57.6	52.9	57.6	119	78.5	15.9	361
(WY)	1937	1974	2000	1937	1938	1935	1933	1933	1935	2000	1975	1975
MIN	6.46	7.45	7.48	4.33	6.30	7.90	4.13	8.84	6.60	5.62	4.37	3.45
(WY)	1935	1938	1999	2000	1934	1936	2000	1936	1936	1936	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	17.6		18.0		19.3	
HIGHEST ANNUAL MEAN					29.9	1937
LOWEST ANNUAL MEAN					8.26	1936
HIGHEST DAILY MEAN	484	May 4	1030	Jul 12	2160	Sep 12 1975
LOWEST DAILY MEAN	1.0	Oct 28,Nov 2,6	.81	Feb 16	.81	Feb 16 2000
ANNUAL SEVEN-DAY MINIMUM	1.2	Nov 2	1.1	Feb 5	1.1	Feb 5 2000
INSTANTANEOUS PEAK FLOW	---		3190[a]	Jul 12	3190[a]	Jul 12 2000
INSTANTANEOUS PEAK STAGE	---		12.70	Jul 12	12.70	Jul 12 2000
INSTANTANEOUS LOW FLOW	---		.57	Oct 7	.57	Oct 7 1999
ANNUAL RUNOFF (INCHES)	12.31		12.62		13.52	
10 PERCENT EXCEEDS	30		31		39	
50 PERCENT EXCEEDS	5.8		4.1		11	
90 PERCENT EXCEEDS	1.5		1.4		4.5	

[a]From rating extended above 600 ft^3/s.

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, 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.--Estimated daily discharges: Oct. 11, Nov. 23-25, Dec. 23, 24, March 1, 21, Apr. 3, 17, May 2, 11, June 6, 13, July 10-13, Aug. 10, 11, 19, 20, Sept. 13, 14, and 26. Records 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	.00	.00	.00	.00	.00	.04	.40	30	.00	8.8	14	.00
2	.00	.00	.00	.00	.00	.00	.26	.06	.00	10	10	.00
3	.00	.00	82	34	.00	74	.05	.00	.00	160	7.7	.00
4	.00	.00	260	4.3	.00	13	.00	.00	57	21	5.8	.00
5	.00	.00	48	.74	.00	7.6	.00	.00	21	5.7	4.0	.00
6	.00	.00	13	.12	.00	5.5	.00	.00	.14	2.7	2.5	.00
7	.00	.00	8.0	.00	.00	3.8	.00	.00	.00	1.0	1.2	.00
8	.78	.00	5.2	6.7	.00	2.9	.00	.00	.00	.43	.47	.00
9	57	.00	260	1.8	.00	1.6	.00	33	.00	.56	.23	.00
10	5.4	.00	143	.15	.00	.86	.00	1.2	.00	.20	.10	.00
11	.10	.00	23	.07	.00	9.5	.00	.04	9.7	.10	.04	.00
12	.00	.00	20	.00	.00	4.6	.00	.00	1.6	1040	.00	13
13	.00	.00	13	.00	.00	3.1	.00	.00	.10	85	.00	.10
14	.00	.00	9.5	.00	.00	1.2	.00	.00	34	21	.00	.04
15	.00	.00	7.1	.00	.00	.54	.00	.00	1.6	14	.00	.00
16	.00	.00	5.9	.00	.00	.30	.78	.00	.90	10	.00	.00
17	.00	.00	4.2	.00	107	.11	.02	.00	183	7.3	.00	.00
18	.00	.00	2.5	.00	53	4.3	.00	.00	12	5.3	12	.00
19	.00	.00	1.5	.00	12	4.3	.00	.00	5.2	3.5	.12	.00
20	.00	.00	.62	.00	8.3	.30	.00	.00	5.2	97	.02	.00
21	.00	.00	.35	.00	6.2	.05	.00	.00	230	17	.00	.00
22	.00	8.0	.26	.00	4.6	.00	.00	.00	12	163	.00	.00
23	.00	.40	.10	.00	3.3	.00	.00	.00	6.7	45	.00	9.5
24	.00	.04	.06	.00	2.0	.00	.00	2.7	5.7	17	.00	58
25	.00	.00	.00	.00	2.5	.00	.00	31	2.3	12	.00	5.5
26	.00	.00	.00	.00	8.9	20	.00	6.3	3.4	9.0	.00	.06
27	.00	.00	.00	.00	1.2	3.7	.00	5.8	.68	22	.00	.00
28	.00	.00	.00	.00	.30	.11	.00	.04	119	177	.00	.00
29	.00	.00	.00	.00	.11	16	.00	.00	13	162	.00	.00
30	.00	.00	.00	.00	---	9.3	.00	.00	6.9	32	.00	.00
31	.00	---	.00	.00	---	1.7	---	.00	---	19	.00	---
MEAN	2.04	.28	29.3	1.54	7.22	6.08	.050	3.55	24.4	70.0	1.88	2.87
MAX	57	8.0	260	34	107	74	.78	33	230	1040	14	58
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00
IN.	.07	.01	.96	.05	.22	.20	.00	.12	.77	2.29	.06	.09

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

MEAN	16.6	24.5	14.3	12.6	15.6	35.6	31.8	34.2	29.3	18.5	9.54	13.9
MAX	54.6	88.6	34.1	35.4	46.0	74.6	78.1	93.6	56.6	70.0	23.1	73.0
(WY)	1973	1973	1974	1982	1975	1975	1979	1979	1981	2000	1978	1977
MIN	2.04	.28	2.93	.36	2.55	5.30	.050	3.55	6.66	3.17	1.23	.38
(WY)	2000	2000	1977	1977	1977	1981	2000	2000	1998	1980	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	18.3		12.5		21.6	
HIGHEST ANNUAL MEAN					35.2	1973
LOWEST ANNUAL MEAN					12.5	2000
HIGHEST DAILY MEAN	632	May 4	1040	Jul 12	1490	Nov 1 1972
LOWEST DAILY MEAN	.00	Jun 6	.00	Many Days	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 6	.00	Several Days	.00	Many Years
INSTANTANEOUS PEAK FLOW	---		3600	Jul 12	3600	Jul 12 2000
INSTANTANEOUS PEAK STAGE	---		11.12	Jul 12	11.12	Jul 12 2000
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Many Years
ANNUAL RUNOFF (INCHES)	7.05		4.83		8.31	
10 PERCENT EXCEEDS	39		18		45	
50 PERCENT EXCEEDS	2.3		.00		8.0	
90 PERCENT EXCEEDS	.00		.00		.10	

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.

REMARKS.--Estimated daily discharge: Sept. 24. Records above 5 ft^3/s fair, those below 5ft^3/s, poor.

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	.00	.00	.00	.00	.00	.00	.00	3.5	.00	11	2.4	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.8	.00	.00
3	.00	.00	16	6.7	.00	14	.00	.00	.00	61	.00	.00
4	.00	.00	33	.25	.00	2.4	.18	.00	.00	18	.00	.00
5	.00	.00	11	.00	.00	.41	2.8	.00	5.7	4.5	.00	.00
6	.00	.00	1.6	.00	.00	.25	.00	.00	.00	2.3	.00	.00
7	.00	.00	.00	.00	.00	.18	.00	.00	.00	1.8	.00	.00
8	.00	.00	.00	.00	.00	.13	.00	.00	.00	.00	.00	.00
9	12	.00	33	.04	.00	.02	.00	4.0	.00	.00	.00	.00
10	1.8	.00	28	.00	.00	.00	.00	.01	.00	.00	.00	.00
11	.00	.00	6.6	.00	.00	1.2	.00	.00	1.2	.00	.00	.00
12	.00	.00	5.7	.00	.00	.20	.00	.00	.21	375	.00	6
13	.00	.00	3.6	.00	.00	.10	.00	.00	.00	23	.00	.00
14	.00	.00	1.6	.00	.00	.00	.00	.00	9.7	9.6	.00	.00
15	.00	.00	.10	.00	.00	.56	.00	.00	.04	1.1	.00	.00
16	.00	.00	.00	.00	.00	.11	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	29	.00	.00	.00	29	.00	.00	.00
18	.00	.00	.00	.00	18	.00	.00	.00	.85	.00	3.2	.00
19	.00	.00	.00	.00	5.6	.23	1.1	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	2.6	.00	.00	.00	1.3	26	.00	.00
21	.00	.00	.00	.00	2.5	.00	.00	.00	40	1.8	.00	.00
22	.00	.00	.00	.00	.70	.00	.00	.00	2.3	62	.00	.00
23	.00	24	.00	.00	.00	.00	.00	.00	.18	27	.00	.00
24	.00	.01	.00	.00	.00	.00	.00	.00	.03	14	.00	45
25	.00	.00	.00	.00	.00	.00	.00	5.7	.02	6.9	.00	.27
26	.00	.00	.00	.00	3.1	1.9	.00	1.4	.00	1.7	.00	.00
27	.00	.00	.00	.00	.04	.52	.00	.00	.00	13	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	38	30	.00	.00
29	.00	.00	.00	.00	.00	2.0	.00	.00	4.9	44	.00	.00
30	.00	.00	.00	.00	---	1.4	.00	.00	1.7	15	.00	.00
31	.00	---	.00	.00	---	.02	---	.00	---	10	.00	---
MEAN	.45	.80	4.52	.23	2.12	.83	.14	.47	4.50	24.5	.18	1.71
MAX	12	24	33	6.7	29	14	2.8	5.7	40	375	3.2	45
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
IN.	.05	.09	.50	.02	.22	.09	.01	.05	.48	2.69	.02	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN	1.34	1.30	2.68	1.48	2.79	2.39	3.73	3.92	2.13	8.88	.50	1.60
MAX	2.23	1.81	4.52	2.73	3.47	3.95	7.33	7.36	4.50	24.5	1.33	3.10
(WY)	1999	1999	2000	1999	1999	1999	1999	1999	2000	2000	1998	1998
MIN	.45	.80	.83	.23	2.12	.83	.14	.47	.56	.70	.000	.000
(WY)	2000	2000	1999	2000	2000	2000	2000	2000	1998	1998	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL MEAN	2.78		3.40		3.05	
HIGHEST ANNUAL MEAN					3.40	2000
LOWEST ANNUAL MEAN					2.70	1999
HIGHEST DAILY MEAN	91	May 4	375	Jul 12	375	Jul 12 2000
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 19	.00	Several Days	.00	At Times
INSTANTANEOUS PEAK FLOW	---		2870	Jul 12	2870	Jul 12 2000
INSTANTANEOUS PEAK STAGE	---		8.57	Jul 12	8.57	Jul 12 2000
INSTANTANEOUS LOW FLOW	---		.00	Many Days	.00	Many Years
ANNUAL RUNOFF (INCHES)	3.59		4.41		3.94	
10 PERCENT EXCEEDS	6.6		5.7		5.6	
50 PERCENT EXCEEDS	.24		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

07052152 WILSON CREEK NEAR BROOKLINE, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°09'07", long 93°22'18", in NE $^1/_4$ SW $^1/_4$ SE $^1/_4$ sec.7, T.28 N., R.22 W., Greene County, Hydrologic Unit 11010002. Sampling site is located on a bridge on a county farm road, about 0.25 mi downstream from the Southwest Treatment Plant, 2.0 mi southeast of Brookline, 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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
09...	0745	22	11.6	130	7.3	1230	20.8	44	100	K33	126
JAN											
25...	1330	38	16.3	164	7.4	1020	14.6	46	44	K8	174
MAR											
23...	0835	31	14.6	156	7.7	1050	17.5	160	100	110	193
MAY											
16...	1615	42	13.5	151	7.9	1160	20.5	40	110	60	155
JUL											
19...	1040	60	15.7	188	7.6	738	23.6	290	420	120	202
SEP											
07...	0830	37	11.5	141	7.6	995	25.3	540	940	130	126

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
09...	132	161	0	170	50.6	9.75	.6	172	161	.6	97.7
JAN											
25...	176	215	0	--	--	--	--	--	--	--	--
MAR											
23...	194	237	0	--	--	--	--	--	--	--	--
MAY											
16...	156	190	0	190	59.6	9.05	11.0	151	165	.4	62.9
JUL											
19...	204	249	0	--	--	--	--	--	--	--	--
SEP											
07...	127	155	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

07052152 WILSON CREEK NEAR BROOKLINE, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
NOV											
09...	.041	1.3	17.6	<.010	6.01	4.80	5.71	32	2	740	<15
JAN											
25...	.036	1.3	10.8	<.010	1.66	1.37	1.75	--	--	--	--
MAR											
23...	.063	1.4	6.30	<.010	1.82	1.58	1.93	--	--	--	--
MAY											
16...	<.020	.98	12.3	<.010	2.69	2.41	2.73	22	<10	660	E15
JUL											
19...	.042	.98	6.02	<.010	1.33	1.26	1.40	--	--	--	--
SEP											
07...	.027	1.1	12.3	<.010	3.85	3.62	4.13	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
09...	E15	<8.0	<.1	E8	90	<100	4	5	<.3	162	112
MAY											
16...	41	<8.0	E.1	<10	50	<100	2	9	<.3	62	79

E--Laboratory estimated value.

07052160 WILSON CREEK NEAR BATTLEFIELD, MO

LOCATION.--Lat 37°07'03", long 93°24'13", in SW $^1/_4$ NW $^1/_4$ sec.24, T.28 N., R.23 W., Greene County, Hydrologic Unit 11010002, on left bank 50 ft downstream from bridge on County Road 182, 0.3 mi upstream from McElhaney Branch and 1.8 mi west of Battlefield.

PERIOD OF RECORD.--March 1968 to September 1970, October 1972 to September 1982, Aug. 3, 1999 to current year.

DRAINAGE AREA.--55.0 mi^2.

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.--No estimated daily discharges. Records good. Natural flow partially regulated and affected by sewage effluent.

EXTREMES FOR CURRENT YEAR.--For period Aug. 3 to Sept. 30, maximum discharge 198 ft^3/s, Aug. 13, gage height 3.26 ft; minimum, 13 ft^3/s, Sept. 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	45
2	---	---	---	---	---	---	---	---	---	---	---	45
3	---	---	---	---	---	---	---	---	---	---	51	44
4	---	---	---	---	---	---	---	---	---	---	48	38
5	---	---	---	---	---	---	---	---	---	---	48	60
6	---	---	---	---	---	---	---	---	---	---	47	53
7	---	---	---	---	---	---	---	---	---	---	44	46
8	---	---	---	---	---	---	---	---	---	---	40	47
9	---	---	---	---	---	---	---	---	---	---	45	44
10	---	---	---	---	---	---	---	---	---	---	48	43
11	---	---	---	---	---	---	---	---	---	---	48	38
12	---	---	---	---	---	---	---	---	---	---	48	37
13	---	---	---	---	---	---	---	---	---	---	91	42
14	---	---	---	---	---	---	---	---	---	---	54	40
15	---	---	---	---	---	---	---	---	---	---	42	41
16	---	---	---	---	---	---	---	---	---	---	45	40
17	---	---	---	---	---	---	---	---	---	---	45	41
18	---	---	---	---	---	---	---	---	---	---	46	38
19	---	---	---	---	---	---	---	---	---	---	45	40
20	---	---	---	---	---	---	---	---	---	---	43	51
21	---	---	---	---	---	---	---	---	---	---	39	45
22	---	---	---	---	---	---	---	---	---	---	36	43
23	---	---	---	---	---	---	---	---	---	---	72	42
24	---	---	---	---	---	---	---	---	---	---	67	41
25	---	---	---	---	---	---	---	---	---	---	53	37
26	---	---	---	---	---	---	---	---	---	---	53	34
27	---	---	---	---	---	---	---	---	---	---	60	39
28	---	---	---	---	---	---	---	---	---	---	48	43
29	---	---	---	---	---	---	---	---	---	---	42	63
30	---	---	---	---	---	---	---	---	---	---	46	54
31	---	---	---	---	---	---	---	---	---	---	45	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	43.8
MAX	---	---	---	---	---	---	---	---	---	---	---	63
MIN	---	---	---	---	---	---	---	---	---	---	---	34
IN.	---	---	---	---	---	---	---	---	---	---	---	.84

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

MEAN	61.1	115	79.5	78.0	89.5	150	123	109	98.6	62.9	50.4	59.0
MAX	103	354	208	169	178	289	281	305	201	115	82.4	155
(WY)	1973	1973	1974	1973	1975	1973	1973	1979	1974	1979	1982	1977
MIN	36.1	23.9	23.4	24.9	32.1	53.4	61.0	45.7	48.5	34.9	27.7	25.3
(WY)	1977	1977	1977	1977	1970	1976	1981	1977	1969	1969	1970	1980

SUMMARY STATISTICS FOR PERIOD OF RECORD

ANNUAL MEAN	90.6	
HIGHEST ANNUAL MEAN	150	1973
LOWEST ANNUAL MEAN	56.9	1977
HIGHEST DAILY MEAN	2830	May 20 1979
LOWEST DAILY MEAN	17	Aug 27 1970
ANNUAL SEVEN-DAY MINIMUM	20	Aug 24 1970
INSTANTANEOUS PEAK FLOW	198	Aug 13 1999
INSTANTANEOUS PEAK STAGE	3.26	Aug 13 1999
INSTANTANEOUS LOW FLOW	13	Sep 27 1999
ANNUAL RUNOFF (INCHES)	21.12	
10 PERCENT EXCEEDS	168	
50 PERCENT EXCEEDS	57	
90 PERCENT EXCEEDS	30	

07052160 WILSON CREEK NEAR BATTLEFIELD, MO--Continued

LOCATION.--Lat 37°07'03", long 93°24'13", in SW $^1/_4$ NW $^1/_4$ sec.24, T.28 N., R.23 W., Greene County, Hydrologic Unit 11010002 on left bank 50 ft downstream from bridge on County Road 182, 0.3 mi upstream from McElhaney Branch and 1.8 mi west of Battlefield.

PERIOD OF RECORD.--March 1968 to September 1970, October 1972 to September 1982, Aug. 3, 1999 to current year.

DRAINAGE AREA.--55.0 mi^2.

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.--Estimated daily discharges: Aug. 19 to Sept. 30. Records good except for estimated daily discharges, which are poor. Natural flow partially regulated and affected by sewage effluent.

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	46	41	39	39	43	66	65	118	41	136	148	48
2	41	47	39	39	45	64	57	71	41	116	125	47
3	37	44	185	95	46	198	56	62	42	285	115	45
4	39	44	366	67	46	136	57	61	32	174	111	45
5	41	44	232	56	39	109	61	57	145	115	90	44
6	42	42	110	52	38	102	60	55	59	96	78	43
7	44	37	86	53	39	95	53	55	51	92	77	42
8	59	39	76	57	39	92	48	56	48	84	74	41
9	133	41	335	58	38	88	46	111	45	77	70	39
10	101	42	455	54	42	83	50	78	42	74	67	38
11	61	43	180	52	39	92	51	61	52	69	66	56
12	54	41	147	50	43	90	54	55	70	1980	59	84
13	51	36	117	48	39	87	54	52	52	368	53	68
14	48	35	97	49	41	82	54	43	118	212	56	54
15	44	37	91	44	41	81	51	48	80	161	56	40
16	45	39	83	45	41	78	55	53	64	133	55	39
17	41	41	78	46	214	73	60	53	354	115	54	38
18	42	38	69	45	245	70	59	51	135	103	100	39
19	42	39	67	46	141	78	67	51	98	95	75	38
20	42	35	62	44	113	71	73	46	88	228	70	37
21	44	31	59	45	99	68	66	44	428	142	68	37
22	43	51	54	42	93	64	54	52	148	376	64	36
23	40	266	51	39	86	64	51	48	117	342	62	37
24	34	75	52	40	79	64	60	52	107	195	60	200
25	39	50	49	40	77	59	59	120	93	155	59	75
26	41	39	43	40	91	76	60	79	86	134	58	50
27	42	37	47	42	74	85	54	73	83	146	58	40
28	41	33	48	43	70	70	62	57	307	288	57	38
29	42	38	49	45	69	87	59	46	163	415	56	37
30	39	39	47	37	---	98	55	44	123	218	52	37
31	35	---	44	38	---	76	---	44	---	178	50	---
MEAN	48.2	48.8	112	48.1	72.8	85.4	57.0	61.2	110	236	72.4	50.4
MAX	133	266	455	95	245	198	73	120	428	1980	148	200
MIN	34	31	39	37	38	59	46	43	32	69	50	36
IN.	.95	.93	2.21	.95	1.35	1.69	1.09	1.21	2.11	4.66	1.43	.96

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

MEAN	60.1	110	82.0	75.7	88.1	145	118	105	99.4	75.3	52.0	58.4
MAX	103	354	208	169	178	289	281	305	201	236	82.4	155
(WY)	1973	1973	1974	1973	1975	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 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	83.7		90.1	
HIGHEST ANNUAL MEAN			150	1973
LOWEST ANNUAL MEAN			56.9	1977
HIGHEST DAILY MEAN	1980	Jul 12	2830	May 20 1979
LOWEST DAILY MEAN	31	Nov 21	17	Aug 27 1970
ANNUAL SEVEN-DAY MINIMUM	37	Nov 15	20	Aug 24 1970
INSTANTANEOUS PEAK FLOW	6160	Jul 12	6160	Jul 12 2000
INSTANTANEOUS PEAK STAGE	13.75	Jul 12	13.75	Jul 12 2000
INSTANTANEOUS LOW FLOW	11	Oct 24	11	Oct 24 1999
ANNUAL RUNOFF (INCHES)	19.55		21.00	
10 PERCENT EXCEEDS	141		166	
50 PERCENT EXCEEDS	56		57	
90 PERCENT EXCEEDS	39		30	

07052250 JAMES RIVER NEAR BOAZ, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°00'25", long 93°21'50", in NW $^1/_4$ NE $^1/_4$ sec.32, T.27 N., R.22 W., Christian County, Hydrologic Unit 11010002, at Frazier Bridge, 0.2 mi upstream from Turkey Hollow, and 2.0 mi southeast of Boaz.

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
NOV												
09...	1045	50	9.0	87	7.7	934	14.0	120	K39	K14	177	181
MAR												
22...	1410	190	13.7	138	8.6	506	14.9	K13	K12	K13	166	167
APR												
18...	0815	51	7.5	74	7.8	629	14.8	K8	K43	K31	173	171
MAY												
17...	0820	84	7.0	75	7.8	745	18.3	51	42	58	168	169
JUN												
06...	1205	92	6.9	77	8.1	547	20.7	LA	250	97	130	130
JUL												
19...	0830	300	7.5	91	7.7	485	24.3	160	180	310	191	194

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)
NOV												
09...	221	0	200	66.8	8.29	1.2	110	111	.4	69.4	<.020	.67
MAR												
22...	196	4	--	--	--	--	--	--	--	--	.030	.39
APR												
18...	209	0	--	--	--	--	--	--	--	--	.032	.70
MAY												
17...	206	0	200	66.9	7.40	6.2	73.7	75.8	.4	58.6	<.020	.50
JUN												
06...	159	0	--	--	--	--	--	--	--	--	.092	.63
JUL												
19...	237	0	--	--	--	--	--	--	--	--	.023	.28

DATE	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (UG/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV												
09...	6.36	.020	1.23	1.13	1.32	20	3	552	30	--	<8.0	E.1
MAR												
22...	3.28	.030	.430	.455	.481	--	--	--	--	--	--	--
APR												
18...	2.49	.013	.622	.576	.605	--	--	--	--	--	--	--
MAY												
17...	3.75	.079	.930	.791	1.07	11	10	451	E14	184	<8.0	<.1
JUN												
06...	3.08	.021	.558	.506	.603	--	--	--	--	--	--	--
JUL												
19...	2.87	<.010	.291	.281	.307	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
LA--Laboratory accident.
E--Laboratory estimated value.

07052250 JAMES RIVER NEAR BOAZ, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)
NOV											
09...	E6	20	<100	E1	4	<.3	62	34	<.003	<.002	<.002
MAR											
22...	--	--	--	--	--	--	--	--	<.003	<.002	<.002
APR											
18...	--	--	--	--	--	--	--	--	<.003	<.002	<.002
MAY											
17...	<10	20	<100	2	18	<.3	43	39	<.003	<.002	<.002
JUN											
06...	--	--	--	--	--	--	--	--	<.003	<.002	<.002
JUL											
19...	--	--	--	--	--	--	--	--	<.003	<.002	<.002

DATE	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	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 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)
NOV											
09...	<.010	<.001	<.002	<.002	<.020	<.003	<.004	<.004	<.002	<.002	.024
MAR											
22...	<.001	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.004	.007
APR											
18...	<.001	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.004	.019
MAY											
17...	.010	<.001	<.002	<.002	<.003	<.003	<.010	.204	<.002	E.005	.022
JUN											
06...	.076	<.001	<.005	<.002	E.018	<.003	<.010	.115	<.002	<.002	.069
JUL											
19...	.005	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.005	.021

DATE	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)	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)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)
NOV											
09...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.010	<.002	<.004
MAR											
22...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.002	<.004
APR											
18...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.002	<.004
MAY											
17...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.002	<.004
JUN											
06...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	.010	.038	<.004
JUL											
19...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.002	<.004

E--Laboratory estimated value.

07052250 JAMES RIVER NEAR BOAZ, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	MOLINATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	PARATHION, DISSOLVED (µg/L) (39542)	METHYL PARATHION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	PEBULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDIMETHALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PROMETON, WATER, DISS, REC (µg/L) (04037)	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)
NOV											
09...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	.021	<.007	<.004	<.013
MAR											
22...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	.053	<.007	<.004	<.013
APR											
18...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	.027	<.007	<.004	<.013
MAY											
17...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	.091	<.007	<.004	<.013
JUN											
06...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	.331	<.007	<.004	<.013
JUL											
19...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	.025	<.007	<.004	<.013

DATE	PRONAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	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)	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)	ALPHA BHC DISSOLVED (µg/L) (34253)	PERMETHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	P,P' DDE DISSOLV (µg/L) (34653)
NOV											
09...	<.003	.035	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
MAR											
22...	<.003	.013	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
APR											
18...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
MAY											
17...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
JUN											
06...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	.005	<.002	<.005	<.006
JUL											
19...	<.003	E.004	.019	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006

E--Laboratory estimated value.

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.--No estimated daily discharges. Water-discharge records good. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters 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	122	109	121	155	131	513	423	174	159	782	1390	127
2	114	101	120	148	129	471	411	218	144	714	1110	125
3	109	100	142	174	131	581	387	215	135	610	904	122
4	105	103	328	254	135	1180	360	192	126	888	757	113
5	101	102	951	274	138	1580	337	185	124	748	647	106
6	102	103	782	237	134	1390	319	182	194	531	552	104
7	104	104	524	220	129	1070	297	172	144	423	481	107
8	109	104	380	216	127	915	265	168	123	358	435	107
9	122	102	371	211	127	800	256	172	112	308	394	110
10	315	103	1890	218	127	694	249	201	108	268	361	111
11	284	103	1820	207	127	628	251	228	109	239	333	103
12	184	107	1280	198	130	587	238	200	105	3970	313	105
13	152	111	975	193	132	541	229	182	116	6930	289	123
14	137	104	763	187	131	501	223	160	145	2370	268	136
15	131	101	613	179	128	472	215	151	240	1560	253	119
16	126	99	507	173	130	455	218	145	287	1130	241	109
17	118	104	426	167	148	425	212	141	841	840	228	104
18	112	105	372	165	557	399	210	141	1820	664	217	97
19	107	106	329	165	923	409	210	135	1100	549	230	94
20	110	106	298	159	989	413	214	128	837	502	226	95
21	110	104	268	154	840	391	201	129	1550	801	205	93
22	109	111	241	146	702	355	200	128	2550	984	194	93
23	108	124	218	145	602	337	194	123	2140	2370	190	103
24	108	379	199	142	522	331	183	124	1480	1660	178	140
25	104	242	186	141	465	307	181	162	1090	1190	169	268
26	100	179	180	140	439	316	183	330	842	904	163	229
27	104	146	166	138	465	337	175	412	671	752	155	209
28	106	135	163	142	499	363	167	345	594	693	144	183
29	105	125	161	141	556	370	166	269	1100	1580	139	160
30	104	120	163	140	---	410	162	211	952	2280	138	144
31	106	---	163	137	---	428	---	178	---	1770	133	---
MEAN	127	125	487	176	338	580	245	190	665	1270	369	128
MAX	315	379	1890	274	989	1580	423	412	2550	6930	1390	268
MIN	100	99	120	137	127	307	162	123	105	239	133	93
IN.	.15	.14	.57	.21	.37	.68	.28	.22	.75	1.48	.43	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2000, BY WATER YEAR (WY)

MEAN	492	877	958	905	1109	1527	1785	1615	1175	593	393	424
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1922 - 2000	
ANNUAL MEAN	923		393		986	
HIGHEST ANNUAL MEAN					2499	1927
LOWEST ANNUAL MEAN					119	1954
HIGHEST DAILY MEAN	16500	May 5	6930	Jul 13	57000	Sep 25 1993
LOWEST DAILY MEAN	99	Nov 16	93	Sep 21,22	11	Aug 22 1954
ANNUAL SEVEN-DAY MINIMUM	102	Nov 2	97	Sep 17	12	Aug 18 1954
INSTANTANEOUS PEAK FLOW	---		16000	Jul 12	73200	Sep 25 1993
INSTANTANEOUS PEAK STAGE	---		12.96	Jul 12	33.46	Sep 25 1993
INSTANTANEOUS LOW FLOW	---		90	Sep 22,23	10	Sep 20 1954
ANNUAL RUNOFF (INCHES)	12.70		5.42		13.57	
10 PERCENT EXCEEDS	2200		904		2150	
50 PERCENT EXCEEDS	400		194		430	
90 PERCENT EXCEEDS	108		106		120	

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
24...	0840	518	8.6	77	8.0	643	10.1	280	270	400	170
DEC											
15...	1210	600	10.8	93	8.8	270	8.5	K30	22	40	154
JAN											
25...	1215	141	14.4	107	8.4	558	2.7	K2	K2	K1	186
FEB											
22...	1515	696	13.9	128	8.0	413	12.5	K2	<1	K2	151
MAR											
22...	1225	351	14.8	142	9.0	431	12.9	K5	K9	K5	164
APR											
17...	1325	210	15.9	167	8.9	473	17.8	K1	K2	K2	161
MAY											
16...	1400	144	10.0	109	8.0	501	19.5	K7	K8	K5	151
JUN											
05...	1430	125	7.7	92	8.0	521	24.1	K1	K13	K3	158
JUL											
18...	1725	633	7.9	99	7.8	426	26.5	40	42	K38	174
AUG											
16...	1130	240	8.9	112	8.0	490	27.7	K15	K11	K5	181
SEP											
06...	1155	106	9.2	113	8.2	587	25.9	K1	K16	K2	162

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
24...	174	213	0	180	60.9	7.41	6.4	61.0	62.1	.2	36.8
DEC											
15...	153	177	5	--	--	--	--	--	--	--	--
JAN											
25...	188	214	7	190	64.7	7.66	4.0	37.9	46.9	.1	27.2
FEB											
22...	153	187	0	--	--	--	--	--	--	--	--
MAR											
22...	165	175	13	--	--	--	--	--	--	--	--
APR											
17...	162	161	18	--	--	--	--	--	--	--	--
MAY											
16...	152	185	0	180	59.0	7.06	4.5	32.9	39.7	.2	24.0
JUN											
05...	160	195	0	--	--	--	--	--	--	--	--
JUL											
18...	176	215	0	190	68.1	5.68	2.5	13.9	17.3	<.1	13.2
AUG											
16...	181	221	0	--	--	--	--	--	--	--	--
SEP											
06...	163	199	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

07052500 JAMES RIVER AT GALENA, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
NOV											
24...	<.020	.49	3.60	<.010	.841	.734	.857	15	<1	380	16
DEC											
15...	<.020	.22	2.49	<.010	.125	.144	.154	--	--	--	--
JAN											
25...	<.020	.24	2.94	<.010	.309	.227	.312	<10	5	326	<15
FEB											
22...	<.020	.19	2.28	.017	.141	.112	.140	--	--	--	--
MAR											
22...	<.020	.26	1.63	<.010	.166	.166	.190	--	--	--	--
APR											
17...	<.020	.39	1.22	.013	.303	.251	.277	--	--	--	--
MAY											
16...	.043	.51	1.83	.025	.533	.503	.588	<10	<10	297	<15
JUN											
05...	.042	.39	1.62	.032	.490	.450	.513	--	--	--	--
JUL											
18...	<.020	.18	2.16	<.010	.195	.171	.181	<10	<10	260	<15
AUG											
16...	<.020	.20	1.56	<.010	.211	.191	.225	--	--	--	--
SEP											
06...	<.020	.31	1.88	.013	.345	.301	.348	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
24...	45	<8.0	<.1	<10	10	<100	<1	3	<.3	88	<31
JAN											
25...	E15	<8.0	<.1	<10	<10	<100	E1	<2	<.3	<20	<31
MAY											
16...	49	E3.5	<.1	<10	E10	<100	<1	16	<.3	<20	<31
JUL											
18...	39	<8.0	<.1	<10	<10	<100	<1	6	<.3	25	<31

E--Laboratory estimated value.

07052800 FLAT CREEK AT JENKINS, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 36°46'33", long 93°41'09", in 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.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
OCT											
12...	1435	39	10.1	109	7.9	320	19.5	25	42	48	142
NOV											
08...	1140	32	10.5	102	7.5	312	14.3	34	53	34	141
DEC											
15...	1355	88	9.9	82	8.4	288	7.0	K60	54	54	133
JAN											
25...	0945	31	14.3	108	7.6	328	3.9	36	K61	57	152
FEB											
22...	1200	73	12.2	109	7.4	300	11.1	40	50	48	128
MAR											
22...	1015	61	9.4	87	8.1	245	11.5	50	37	54	135
APR											
17...	1145	57	12.3	121	7.9	290	14.6	K13	42	34	132
MAY											
16...	1205	55	10.1	104	8.1	279	16.8	K13	22	20	140
JUN											
05...	1225	34	9.3	105	8.2	316	20.9	K21	33	66	137
JUL											
18...	1545	74	8.6	105	7.7	300	24.5	250	K340	100	139
AUG											
16...	0900	34	6.7	79	7.7	314	23.7	K90	140	82	145
SEP											
06...	1000	28	7.2	82	7.7	312	22.3	69	120	160	137

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
OCT											
12...	146	178	0	--	--	--	--	--	--	--	--
NOV											
08...	146	179	0	150	56.6	2.88	1.2	4.9	8.9	<.1	3.7
DEC											
15...	133	139	12	--	--	--	--	--	--	--	--
JAN											
25...	154	188	0	150	55.3	3.04	1.0	4.8	8.9	<.1	3.5
FEB											
22...	134	164	0	--	--	--	--	--	--	--	--
MAR											
22...	135	164	0	--	--	--	--	--	--	--	--
APR											
17...	136	165	0	--	--	--	--	--	--	--	--
MAY											
16...	141	172	0	150	56.5	3.20	1.3	3.9	6.7	<.1	3.7
JUN											
05...	133	162	0	--	--	--	--	--	--	--	--
JUL											
18...	142	173	0	150	54.2	2.95	1.6	4.2	6.7	<.1	3.1
AUG											
16...	146	178	0	--	--	--	--	--	--	--	--
SEP											
06...	137	168	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

07052800 FLAT CREEK AT JENKINS, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
OCT											
12...	<.020	.10	1.81	<.010	E.044	.016	E.031	--	--	--	--
NOV											
08...	<.020	E.10	1.58	<.010	<.050	<.010	E.045	<10	1	179	<15
DEC											
15...	<.020	.14	2.26	<.010	<.050	.021	<.050	--	--	--	--
JAN											
25...	<.020	E.10	1.97	<.010	<.050	.011	<.050	<10	3	180	<15
FEB											
22...	.021	E.10	1.86	<.010	<.050	.017	<.050	--	--	--	--
MAR											
22...	<.020	.10	1.75	<.010	<.050	.019	E.042	--	--	--	--
APR											
17...	<.020	.12	1.36	<.010	<.050	.013	E.040	--	--	--	--
MAY											
16...	<.020	E.10	1.17	<.010	<.050	.017	<.050	<10	<10	177	E12
JUN											
05...	.028	.12	1.09	<.010	<.050	.024	E.037	--	--	--	--
JUL											
18...	<.020	.12	1.67	<.010	.054	.025	<.050	<10	<10	183	16
AUG											
16...	<.020	E.10	1.41	<.010	<.050	.024	E.032	--	--	--	--
SEP											
06...	<.020	E.10	1.11	<.010	<.050	.016	<.050	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
08...	E21	<8.0	<.1	<10	<10	<100	<1	E2	<.3	<20	<31
JAN											
25...	E27	<8.0	<.1	<10	<10	<100	<1	E1	<.3	53	<31
MAY											
16...	50	E3.9	<.1	<10	E10	<100	<1	5	<.3	E14	E21
JUL											
18...	45	<8.0	<.1	<10	<10	<100	<1	4	<.3	E11	<31

E--Laboratory estimated value.

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, 2,800,000 ac-ft, July 3, elevation, 917.18 ft; minimum, 2,110,000 ac-ft, Feb. 5, elevation, 899.88 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	907.13	905.56	905.01	903.91	900.67	901.06	904.36	905.62	907.11	916.83	914.86	910.35
2	907.13	905.47	905.03	903.91	900.39	901.16	904.43	905.66	907.16	917.11	914.72	910.23
3	907.11	905.37	905.14	904.03	900.35	901.47	904.55	905.72	907.21	917.18	914.56	910.11
4	907.06	905.35	905.30	903.92	900.04	901.70	904.60	905.77	907.30	917.13	914.44	910.08
5	907.12	905.33	905.34	903.83	899.88	901.96	904.67	905.80	907.31	917.09	914.33	910.10
6	907.08	905.35	905.32	903.78	899.89	902.15	904.73	905.87	907.31	917.04	914.23	910.06
7	906.92	905.34	905.20	903.77	899.91	902.29	904.80	905.91	907.32	917.01	914.05	910.02
8	906.96	905.33	905.22	903.77	899.93	902.44	904.82	905.75	907.30	916.92	913.93	909.87
9	907.08	905.32	905.39	903.80	899.92	902.53	904.87	905.78	907.32	916.76	913.71	909.78
10	907.12	905.34	905.39	903.80	899.96	902.65	904.90	905.80	907.36	916.50	913.58	909.63
11	906.90	905.32	905.47	903.76	899.94	902.72	904.99	905.84	907.37	916.29	913.45	909.39
12	906.73	905.32	905.69	903.77	899.95	902.76	905.03	905.90	907.40	916.34	913.15	909.51
13	906.51	905.32	905.62	903.68	899.98	902.84	905.07	905.91	907.40	916.43	912.91	909.53
14	906.48	905.30	905.57	903.44	899.91	902.91	905.12	905.91	907.50	916.31	912.77	909.41
15	906.37	905.33	905.44	903.41	899.89	902.95	905.16	905.92	907.52	916.08	912.57	909.41
16	906.30	905.30	905.30	903.35	899.89	902.99	905.22	905.95	907.57	915.86	912.34	909.38
17	906.25	905.28	905.33	903.14	900.11	903.01	905.22	905.96	909.41	915.81	912.25	909.34
18	906.24	905.24	905.22	902.95	900.21	903.13	905.22	906.02	910.44	915.67	912.15	909.31
19	906.24	905.24	905.23	902.84	900.36	903.21	905.28	906.00	910.81	915.44	911.97	909.25
20	906.18	905.23	904.91	902.48	900.47	903.28	905.35	906.01	911.09	915.40	911.82	909.26
21	906.25	905.20	904.64	902.09	900.55	903.36	905.35	906.03	912.08	915.20	911.65	909.23
22	906.32	905.20	904.45	902.05	900.65	903.39	905.36	906.05	913.13	915.26	911.43	909.13
23	906.27	905.23	904.46	902.05	900.70	903.46	905.40	906.02	913.80	915.34	911.19	909.29
24	906.23	905.23	904.43	901.84	900.73	903.50	905.43	906.18	914.22	915.38	911.05	909.44
25	906.29	905.23	904.45	901.54	900.83	903.54	905.44	906.32	914.45	915.23	911.05	909.44
26	906.32	905.20	904.43	901.43	900.89	903.66	905.47	906.42	914.76	915.00	911.05	909.42
27	906.26	905.20	904.24	901.29	900.91	903.72	905.48	906.54	915.09	914.80	910.97	909.42
28	905.99	905.20	904.03	901.22	900.93	903.75	905.49	906.80	915.57	914.66	910.75	909.43
29	905.70	905.15	904.04	901.17	901.02	903.95	905.50	906.93	916.06	915.05	910.61	909.42
30	905.71	905.05	904.06	901.12	---	904.11	905.52	907.01	916.45	915.19	910.50	909.40
31	905.72	---	903.90	900.85	---	904.23	---	907.06	---	915.06	910.40	---
MEAN	906.52	905.28	904.94	902.84	900.31	902.90	905.09	906.08	910.16	915.98	912.53	909.59
MAX	907.13	905.56	905.69	904.03	901.02	904.23	905.52	907.06	916.45	917.18	914.86	910.35
MIN	905.70	905.05	903.90	900.85	899.88	901.06	904.36	905.62	907.11	914.66	910.40	909.13
(-)	2320000	2300000	2260000	2140000	2150000	2270000	2320000	2380000	2760000	2700000	2510000	2470000
(=)	-60000	-20000	-40000	-120000	+10000	+120000	+50000	+60000	+380000	-60000	-190000	-40000

CAL YR 1999....-180000
WTR YR 2000....+ 90000

(-) 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 4.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	13.9	13.0	13.6	14.2	13.2	13.8	14.1	13.1	13.6	11.7	10.9	11.1
2	14.1	13.0	13.4	14.5	12.8	13.8	14.0	13.2	13.5	11.5	10.9	11.2
3	13.7	13.1	13.3	14.6	13.2	14.0	14.6	13.4	13.7	11.1	10.8	11.0
4	14.0	12.9	13.3	14.4	13.2	13.9	13.8	13.3	13.6	10.9	10.9	10.9
5	14.0	12.9	13.4	14.6	13.1	13.8	14.1	13.1	13.3	---	---	---
6	14.0	12.9	13.3	14.4	13.2	13.7	14.2	13.1	13.5	---	---	---
7	14.0	12.9	13.5	14.3	13.3	13.8	14.1	13.2	13.8	---	---	---
8	13.9	13.2	13.4	14.3	13.2	13.7	13.9	13.3	13.7	---	---	---
9	13.8	13.2	13.5	14.6	13.2	13.7	13.7	13.5	13.6	---	---	---
10	14.0	13.2	13.5	14.3	13.2	13.7	14.3	13.3	13.7	---	---	---
11	13.9	13.2	13.6	14.4	13.1	13.6	13.7	13.3	13.5	---	---	---
12	13.9	13.1	13.5	14.2	13.1	13.6	13.5	13.4	13.4	---	---	---
13	14.0	13.2	13.6	14.5	13.1	13.7	13.8	13.1	13.4	---	---	---
14	14.1	13.1	13.5	14.3	13.1	13.7	13.9	12.9	13.4	---	---	---
15	14.2	13.2	13.6	14.2	12.9	13.5	13.5	12.9	13.1	---	---	---
16	14.1	13.3	13.7	14.2	13.0	13.5	13.1	12.7	13.0	---	---	---
17	14.0	13.3	13.6	14.5	13.0	13.8	13.5	12.7	13.0	---	---	---
18	14.1	13.3	13.6	14.5	13.2	13.8	13.2	12.6	12.8	---	---	---
19	14.1	13.1	13.6	14.3	13.0	13.5	13.3	12.5	12.7	---	---	---
20	14.1	13.2	13.7	14.3	13.0	13.6	12.6	12.2	12.5	---	---	---
21	14.2	13.1	13.6	14.2	13.0	13.6	12.4	12.0	12.3	---	---	---
22	14.2	12.9	13.5	14.1	13.3	13.7	12.5	12.0	12.2	---	---	---
23	14.4	12.9	13.5	14.3	13.2	13.8	12.6	11.7	12.0	---	---	---
24	14.2	12.8	13.5	14.1	13.0	13.5	12.5	11.6	11.9	---	---	---
25	14.2	12.9	13.7	14.1	13.2	13.6	12.5	11.5	11.8	---	---	---
26	14.4	12.9	13.7	14.0	13.0	13.5	12.6	11.4	11.8	---	---	---
27	13.9	13.0	13.6	14.4	13.1	13.6	11.6	11.3	11.5	---	---	---
28	14.0	13.1	13.8	14.2	13.0	13.5	11.4	11.3	11.4	---	---	---
29	14.0	13.4	13.9	14.2	12.9	13.7	12.0	11.1	11.4	---	---	---
30	14.0	13.4	13.6	14.0	13.1	13.7	11.9	11.0	11.3	---	---	---
31	14.0	13.4	13.6	---	---	---	11.1	11.0	11.1	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	.0	9.2	8.9	9.0	---	---	---	11.9	10.7	11.3
2	---	---	---	9.8	8.8	9.1	10.3	9.7	10.1	12.2	10.7	11.3
3	---	---	---	9.4	8.9	9.2	10.4	9.6	10.0	11.7	10.8	11.2
4	---	---	---	9.9	8.9	9.2	11.0	9.6	10.1	12.0	10.8	11.3
5	10.4	8.5	9.5	9.6	8.9	8.8	10.9	9.7	10.1	12.0	10.8	11.3
6	9.9	8.5	9.0	9.4	9.0	9.2	11.1	9.7	10.2	12.2	10.8	11.4
7	10.3	8.5	9.0	9.9	9.0	9.3	10.5	9.7	10.2	11.8	10.8	11.3
8	10.4	8.5	9.1	9.7	9.0	9.3	10.8	9.7	10.2	12.0	10.9	11.4
9	10.7	8.5	9.0	9.7	9.1	9.3	11.2	9.8	10.4	11.9	10.9	11.3
10	10.5	8.7	8.9	9.5	9.1	9.4	10.9	9.8	10.4	12.4	10.9	11.6
11	9.6	8.7	8.9	10.3	9.1	9.4	10.9	9.9	10.4	12.1	11.0	11.7
12	10.5	8.7	9.4	9.7	9.1	9.5	10.8	9.9	10.5	12.7	11.1	11.5
13	10.4	8.7	9.2	10.1	9.1	9.5	11.2	10.0	10.5	12.4	10.9	11.7
14	9.4	8.6	9.0	9.7	9.1	9.5	11.0	10.0	10.6	12.7	11.1	11.7
15	10.7	8.6	9.1	10.4	9.2	9.6	11.3	10.0	10.7	13.4	10.9	11.6
16	9.5	8.7	8.9	9.8	9.2	9.5	11.4	10.1	10.7	13.0	10.8	11.5
17	9.9	8.6	8.9	10.3	9.3	9.6	11.6	10.1	10.7	12.9	10.9	11.5
18	9.3	8.7	8.8	9.9	9.3	9.6	11.2	10.2	10.7	13.2	10.9	11.5
19	9.8	8.5	9.2	10.5	9.4	9.7	11.2	10.2	10.6	12.7	10.9	11.6
20	9.9	8.8	9.2	10.4	9.3	9.7	11.1	10.2	10.7	12.9	11.0	11.7
21	9.0	8.8	8.8	10.1	9.3	9.7	11.3	10.2	10.8	13.0	11.0	11.7
22	---	---	---	10.3	9.2	9.6	11.5	10.4	11.0	12.0	11.0	11.7
23	9.9	8.8	9.2	10.5	9.2	9.6	11.4	10.4	11.1	12.3	11.4	11.7
24	9.3	8.8	9.0	10.8	9.2	9.6	11.8	10.2	11.0	12.7	11.2	11.5
25	9.8	8.8	9.0	10.6	9.3	9.7	11.6	10.5	11.0	12.1	11.2	11.4
26	9.9	8.8	9.1	10.5	9.3	9.7	12.2	10.5	11.0	12.4	10.9	11.5
27	9.9	8.9	9.1	10.3	9.5	9.8	11.3	10.4	11.0	12.6	10.9	11.5
28	9.3	8.8	9.0	10.6	9.4	9.9	11.9	10.5	11.2	12.8	11.1	11.6
29	9.9	8.8	9.1	---	---	---	12.1	10.5	11.2	12.4	11.0	11.6
30	9.5	8.8	9.0	---	---	---	11.9	10.7	11.2	12.2	11.0	11.5
31	---	---	---	---	---	---	12.1	10.7	11.3	---	---	---

07053450 WHITE RIVER BELOW TABLE ROCK DAM NEAR BRANSON, MO--Continued

OXYGEN DISSOLVED (mg/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.5	4.5	7.0	6.8	.9	3.9	7.4	.5	2.9	13.0	9.8	10.8
2	10.8	3.6	7.1	8.9	1.1	4.4	6.0	.2	1.9	12.9	9.8	11.1
3	9.0	3.9	6.4	8.1	1.0	3.8	4.9	.2	1.4	12.7	10.6	11.5
4	10.5	3.4	6.4	6.7	.8	4.0	.9	.2	.5	11.6	10.8	11.2
5	10.7	2.2	6.7	7.8	1.1	3.4	6.5	.5	1.8	---	---	---
6	10.4	1.8	6.3	7.2	.8	2.1	7.7	.4	2.6	---	---	---
7	7.3	2.4	5.3	7.2	.9	2.8	10.2	.9	5.0	---	---	---
8	9.3	2.4	5.5	6.6	.9	2.5	8.9	.1	2.2	---	---	---
9	8.6	3.1	5.8	6.5	1.1	3.4	8.6	.5	3.5	---	---	---
10	9.9	2.0	6.2	7.0	.7	3.0	---	---	---	---	---	---
11	8.0	2.1	4.8	5.5	.9	2.6	---	---	---	---	---	---
12	8.6	.9	4.7	7.2	.8	2.7	---	---	---	---	---	---
13	7.9	.9	4.4	5.7	.3	2.0	---	---	---	---	---	---
14	10.0	.5	5.8	6.6	.2	2.0	---	---	---	---	---	---
15	8.5	1.2	4.6	9.0	.2	2.0	---	---	---	---	---	---
16	9.4	1.6	5.5	6.9	.0	2.3	9.2	2.0	5.8	---	---	---
17	10.9	1.9	6.0	9.3	.4	3.9	8.2	5.2	6.4	---	---	---
18	9.8	1.4	6.0	7.9	.3	3.6	9.0	5.1	6.7	---	---	---
19	9.9	2.1	6.0	8.7	.3	2.6	8.3	5.5	6.6	---	---	---
20	10.5	1.4	5.1	7.9	.8	2.7	9.7	6.3	7.4	---	---	---
21	9.7	.1	4.2	5.0	.3	1.5	9.2	5.9	7.8	---	---	---
22	7.0	.1	2.5	6.0	.2	1.7	9.9	6.9	8.7	---	---	---
23	7.9	.0	2.6	8.2	.3	3.7	11.4	7.6	8.9	---	---	---
24	5.0	.1	2.3	6.6	.2	1.9	10.7	7.1	8.5	---	---	---
25	6.7	.9	3.6	7.1	.3	2.2	10.0	7.1	8.1	---	---	---
26	6.5	.4	3.0	5.5	.3	1.7	11.2	7.2	9.2	---	---	---
27	6.8	.6	2.9	7.2	.2	1.5	11.0	8.2	9.8	---	---	---
28	7.9	.3	4.0	6.2	.1	1.5	11.0	9.2	10.2	---	---	---
29	5.6	.7	3.7	6.9	.5	3.2	11.7	8.6	9.5	---	---	---
30	5.2	.8	2.3	7.3	1.0	4.0	12.4	8.5	9.8	---	---	---
31	4.9	.6	2.0	---	---	---	12.1	9.0	10.9	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	7.0	2.2	4.1
2	---	---	---	---	---	---	6.9	3.8	4.8	6.3	2.0	3.9
3	---	---	---	---	---	---	8.3	3.7	4.8	10.8	2.1	4.1
4	---	---	---	---	---	---	8.2	3.6	4.6	7.2	1.8	4.6
5	4.9	3.3	4.1	---	---	---	6.2	3.5	4.6	7.2	2.0	4.8
6	4.4	3.1	3.6	8.2	4.7	5.6	6.8	3.6	4.8	6.6	2.0	4.1
7	4.7	3.1	3.7	8.9	4.7	6.0	7.2	3.4	4.5	7.0	1.6	3.9
8	4.7	3.1	3.7	9.4	4.8	6.7	7.1	3.4	4.2	6.5	1.8	3.6
9	5.1	3.1	3.8	10.3	4.7	5.9	5.7	3.2	4.2	6.1	1.7	3.8
10	5.1	3.1	3.8	9.2	4.6	5.5	7.3	3.1	5.0	6.3	1.6	3.7
11	5.0	3.1	3.7	6.9	4.6	5.2	7.4	3.5	5.1	6.9	1.6	4.3
12	4.9	3.2	4.0	7.4	4.6	5.2	7.2	3.3	4.6	7.0	1.3	3.9
13	5.3	3.3	4.1	8.3	4.6	5.6	7.8	3.4	5.0	7.5	1.2	4.3
14	4.9	3.1	3.9	8.2	4.6	5.6	6.8	3.1	4.6	7.0	2.0	4.0
15	5.8	3.2	4.1	7.9	4.3	5.5	6.1	3.2	4.5	6.2	1.5	3.3
16	6.0	3.3	4.2	8.7	4.5	5.6	8.6	3.1	4.7	6.4	1.1	3.3
17	5.1	3.5	3.9	10.1	4.4	6.2	8.2	2.9	4.7	6.2	1.0	3.0
18	5.2	3.4	4.0	8.1	4.0	5.6	7.9	2.9	4.7	7.4	.9	3.6
19	7.8	3.3	5.4	8.3	4.1	5.4	8.2	2.9	5.1	7.4	1.0	3.6
20	7.3	3.2	5.0	9.0	3.9	5.5	8.0	2.9	5.3	8.4	1.3	4.0
21	3.3	3.0	3.1	7.4	3.7	4.8	7.7	2.7	4.5	7.1	1.4	3.9
22	---	---	---	9.3	3.8	5.6	7.5	2.7	4.5	7.0	1.3	4.3
23	5.7	3.4	4.3	8.5	3.6	5.7	6.4	2.9	4.4	8.4	1.4	3.7
24	5.6	3.4	4.2	7.9	3.8	5.3	7.5	2.2	4.5	5.7	1.5	2.7
25	5.8	3.6	4.2	8.5	3.8	5.4	7.1	2.4	4.6	5.3	1.6	3.5
26	5.4	3.9	4.6	8.5	4.1	5.2	9.0	2.2	4.3	6.3	1.4	3.1
27	6.7	3.8	5.3	8.3	4.0	5.2	6.9	2.0	4.7	6.6	1.4	3.3
28	6.5	4.1	5.1	8.5	2.1	5.1	5.4	2.5	4.1	5.9	1.4	3.4
29	---	---	---	---	---	---	6.2	2.2	4.0	5.1	1.4	3.0
30	---	---	---	---	---	---	7.5	2.3	4.3	4.6	1.4	2.9
31	---	---	---	---	---	---	6.0	2.2	4.0	---	---	---

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	2560	1330	40	4040	40	40	40	195	3220	7390	4260
2	154	2320	40	435	5200	187	40	40	179	4340	6470	3800
3	153	2960	40	2750	658	40	40	129	191	7220	7230	3430
4	1050	2160	40	3520	5900	40	40	40	218	6770	5810	1920
5	354	636	506	3500	2810	40	40	40	137	7780	5680	1700
6	193	199	1410	2110	40	40	40	40	155	7120	5700	1480
7	3720	389	3350	943	40	40	40	40	142	5020	6650	2150
8	301	406	307	1030	40	40	40	4840	270	3380	6180	3530
9	194	348	1950	316	40	40	40	40	143	5470	7890	1770
10	454	160	2620	40	40	40	40	40	140	8620	6310	3940
11	4770	500	1760	1460	570	40	40	40	155	7460	6020	6590
12	5040	347	1570	1030	40	40	40	40	139	7410	6850	946
13	4730	190	5550	1480	40	40	40	40	158	7120	4960	2390
14	453	268	3520	5080	1290	40	40	40	140	7160	6900	2870
15	3140	362	3370	735	465	40	40	40	157	6910	7140	153
16	719	415	3820	1220	40	40	40	40	162	6180	7010	421
17	1200	2110	549	4460	40	40	765	40	157	3360	5620	485
18	854	740	2670	3440	785	40	262	40	159	5430	3960	797
19	1760	346	1240	3320	40	40	40	40	161	6210	3510	1500
20	2190	156	6070	6220	40	40	40	40	156	3160	3680	313
21	193	159	5290	6720	545	40	40	40	138	5010	4450	364
22	521	196	3870	1460	59	40	40	40	470	837	6320	3320
23	445	1250	469	321	40	40	40	544	3480	777	7670	732
24	557	182	772	3740	476	40	40	44	4890	510	4840	136
25	1620	703	40	5540	40	40	40	40	7020	4180	2310	138
26	1060	177	410	1770	40	40	40	40	4460	6080	2880	240
27	2040	170	3950	3490	40	40	40	40	1610	6400	3520	144
28	4700	172	3910	1870	662	40	40	40	1710	5730	7290	141
29	5360	1590	40	1460	40	40	40	40	3520	5020	6450	139
30	193	2840	40	841	---	40	40	175	3530	1700	4890	143
31	238	---	3290	5340	---	40	---	205	---	6610	5790	---
MEAN	1565	834	2058	2441	831	44.7	71.6	224	1138	5232	5722	1665
MAX	5360	2960	6070	6720	5900	187	765	4840	7020	8620	7890	6590
MIN	147	156	40	40	40	40	40	40	137	510	2310	136
IN.	.45	.23	.59	.70	.22	.01	.02	.06	.32	1.50	1.64	.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2000[a], BY WATER YEAR (WY)

MEAN	1944	2945	4313	4091	4210	5524	6226	5627	3899	3582	2987	2156
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1960 - 2000[a]	
ANNUAL MEAN	4204		1834		3958	
HIGHEST ANNUAL MEAN					7161	1993
LOWEST ANNUAL MEAN					852	1981
HIGHEST DAILY MEAN	13900	Jun 10	8620	Jul 10	33000	May 12 1961
LOWEST DAILY MEAN	40	Many Days	40	Many Days	35	Oct 31 1959
ANNUAL SEVEN-DAY MINIMUM	311	Nov 9	40	Mar 3,Apr 19,May 9	40	1984,1996,2000
ANNUAL RUNOFF (INCHES)	14.19		6.21		13.37	
10 PERCENT EXCEEDS	8810		5940		9590	
50 PERCENT EXCEEDS	3870		467		2630	
90 PERCENT EXCEEDS	194		40		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. 4 to June 4.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.6	13.3	14.2	15.0	13.6	14.5	13.7	12.8	13.3	11.5	10.1	10.6
2	16.0	13.7	14.7	14.1	12.6	13.5	13.8	13.3	13.5	10.9	10.3	10.6
3	16.0	14.9	15.3	15.0	13.4	14.3	14.0	13.3	13.6	11.2	10.5	10.9
4	15.2	13.5	14.6	14.9	13.0	14.1	13.9	13.2	13.5	---	---	---
5	15.8	14.0	14.8	14.7	13.7	14.1	13.6	12.2	13.1	---	---	---
6	15.9	14.1	14.7	14.9	14.0	14.4	13.5	12.2	12.8	---	---	---
7	14.5	13.6	14.2	15.7	14.2	14.8	14.0	13.2	13.7	---	---	---
8	15.0	13.8	14.3	15.7	14.2	14.7	13.5	12.7	13.0	---	---	---
9	15.6	14.8	15.2	14.9	14.0	14.3	13.5	12.6	13.0	---	---	---
10	16.5	14.7	15.3	15.1	14.1	14.4	13.4	12.6	13.1	---	---	---
11	15.5	13.8	14.7	15.2	13.7	14.3	13.2	12.6	12.9	---	---	---
12	14.4	13.7	13.9	14.7	13.5	13.9	13.1	12.4	12.8	---	---	---
13	14.5	13.7	14.0	14.9	13.6	14.0	13.5	12.8	13.2	---	---	---
14	15.2	13.5	14.2	15.3	13.8	14.3	13.4	12.5	13.0	---	---	---
15	15.2	13.8	14.5	14.4	12.9	13.7	13.2	12.1	12.8	---	---	---
16	15.1	13.8	14.2	14.9	12.7	13.5	12.9	12.4	12.6	---	---	---
17	14.5	13.5	14.1	14.6	12.8	13.5	12.7	12.0	12.4	---	---	---
18	14.5	13.4	13.8	14.5	13.2	13.9	12.9	12.1	12.5	---	---	---
19	14.9	13.1	14.0	14.7	13.7	14.3	12.4	11.6	12.1	---	---	---
20	15.0	13.4	14.1	14.3	13.3	13.7	12.5	11.7	12.2	---	---	---
21	14.3	13.2	13.6	14.0	12.7	13.3	12.4	11.4	11.9	---	---	---
22	14.4	13.2	13.8	14.5	12.7	13.3	12.4	11.4	11.8	---	---	---
23	13.9	13.0	13.6	14.4	13.7	14.0	11.7	10.5	11.0	---	---	---
24	14.2	12.9	13.4	14.0	13.1	13.7	11.8	10.3	11.0	---	---	---
25	14.8	12.5	13.9	13.3	12.3	12.9	11.6	10.7	11.0	---	---	---
26	14.8	13.1	14.1	13.4	12.6	13.2	10.7	9.7	10.4	---	---	---
27	14.6	13.5	14.0	13.4	12.1	12.7	11.4	9.8	10.7	---	---	---
28	14.5	13.3	13.9	13.1	12.0	12.4	11.6	10.3	11.0	---	---	---
29	14.5	13.8	14.0	13.6	12.1	12.8	11.7	10.6	11.0	---	---	---
30	14.5	13.9	14.1	14.0	12.8	13.6	11.9	10.4	10.8	---	---	---
31	14.9	14.1	14.5	---	---	---	11.4	10.2	10.7	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	10.9	9.4	9.7	10.9	10.3	10.5	13.2	11.6	11.9
2	---	---	---	10.7	9.3	9.6	11.4	10.3	10.5	13.7	11.8	12.1
3	---	---	---	10.5	9.3	9.6	11.5	10.4	10.6	13.2	11.8	12.1
4	---	---	---	10.1	9.3	9.6	11.4	10.5	10.7	15.8	11.7	12.7
5	17.3	15.7	16.2	10.0	9.4	9.6	12.1	10.5	10.8	14.6	11.6	12.5
6	18.0	14.9	16.2	10.4	9.5	9.9	12.3	10.6	10.9	15.5	11.6	12.5
7	20.2	15.0	16.6	11.7	9.5	9.8	11.2	10.6	10.8	14.6	11.9	12.3
8	18.6	15.4	16.5	11.2	9.5	9.9	11.9	10.6	10.9	12.7	12.0	12.2
9	17.2	14.2	15.4	11.3	9.5	9.9	11.4	10.7	10.9	13.6	12.0	12.4
10	16.1	14.1	15.0	10.4	9.5	9.9	11.4	10.6	10.9	13.8	12.1	12.4
11	18.2	14.1	15.4	10.3	9.7	9.9	12.1	10.6	11.0	12.7	12.1	12.3
12	18.0	14.2	15.8	11.8	9.6	10.0	11.5	10.7	10.9	13.8	12.1	12.8
13	16.9	14.3	14.9	10.6	9.7	10.0	12.5	10.8	11.1	15.7	12.0	13.8
14	16.6	14.9	15.4	10.4	9.7	10.0	12.1	10.7	11.1	14.2	11.9	12.4
15	17.6	14.2	15.2	10.6	9.7	10.0	11.7	11.0	11.2	14.2	12.2	13.0
16	15.8	14.1	14.7	10.9	9.8	10.1	11.8	10.9	11.2	15.4	13.2	14.0
17	16.4	14.0	15.3	10.9	9.8	10.1	12.0	11.1	11.3	15.7	13.4	14.0
18	16.8	14.8	15.9	17.3	9.8	10.3	11.9	11.0	11.3	14.9	12.6	13.3
19	16.1	13.8	15.2	10.9	9.9	10.2	13.2	11.0	11.5	14.2	12.3	12.8
20	15.9	13.6	14.6	11.7	10.0	10.4	11.9	11.0	11.3	13.5	12.2	12.8
21	16.6	14.5	15.4	10.5	10.1	10.2	13.3	11.0	11.5	15.0	13.4	13.9
22	19.0	15.3	16.1	10.6	10.1	10.3	12.6	11.2	11.6	14.3	12.1	13.2
23	16.8	9.1	13.6	13.7	10.2	11.8	12.0	11.3	11.6	14.5	12.1	13.0
24	11.3	9.1	9.8	13.4	11.9	12.3	12.9	11.4	11.7	15.3	14.1	14.6
25	10.0	9.2	9.5	13.5	10.0	11.7	13.1	11.4	11.8	14.1	13.4	13.7
26	10.1	9.2	9.4	10.8	9.9	10.2	12.6	11.5	11.9	15.1	12.6	13.4
27	12.1	9.3	9.9	11.1	10.0	10.3	13.4	11.4	12.0	14.8	12.5	13.4
28	11.5	9.4	10.1	10.8	10.1	10.3	12.1	11.4	11.7	15.0	13.3	13.9
29	12.3	9.2	9.9	13.8	10.4	11.0	12.3	11.5	11.7	16.2	13.6	14.5
30	11.0	9.2	9.6	13.4	10.2	11.2	13.0	11.6	11.9	15.7	14.0	14.7
31	---	---	---	11.2	10.2	10.4	12.8	11.6	11.9	---	---	---

07053600 LAKE TANEYCOMO AT COLLEGE OF THE OZARKS--Continued

OXYGEN DISSOLVED (mg/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.56	3.71	5.06	5.69	3.22	3.86	6.85	4.39	5.01	9.65	8.18	8.86
2	8.49	4.74	6.31	6.61	2.87	4.07	5.04	4.13	4.66	9.46	8.61	8.99
3	9.59	7.38	8.05	5.65	3.61	4.06	5.33	4.25	4.83	9.22	8.76	8.90
4	8.13	3.04	6.58	5.72	3.12	4.08	5.69	4.44	5.06	---	---	---
5	9.45	3.04	7.46	6.03	2.96	3.88	5.90	5.19	5.68	---	---	---
6	11.1	5.60	8.60	5.08	3.48	4.52	6.77	5.47	5.99	---	---	---
7	8.41	2.84	6.05	5.90	3.59	4.90	6.46	5.23	5.95	---	---	---
8	6.12	1.54	4.39	6.43	4.93	5.84	6.05	3.69	4.76	---	---	---
9	8.23	4.06	6.28	7.53	4.91	6.19	6.42	3.70	4.88	---	---	---
10	9.17	3.77	6.60	7.14	5.12	6.32	7.23	4.09	5.40	---	---	---
11	8.14	2.73	5.67	7.07	4.97	5.61	6.26	3.70	4.75	---	---	---
12	5.97	2.90	4.21	6.67	5.22	5.83	6.29	4.31	5.37	---	---	---
13	5.11	2.91	3.71	7.26	5.12	6.48	6.33	3.82	4.81	---	---	---
14	6.76	3.11	4.07	6.85	4.89	5.46	6.81	3.26	4.79	---	---	---
15	6.55	3.25	5.00	6.52	4.64	5.39	8.17	3.84	6.10	---	---	---
16	5.88	3.07	3.93	7.64	4.61	5.46	7.69	5.31	6.29	---	---	---
17	6.69	3.12	4.34	8.13	4.15	5.82	7.31	5.53	6.11	---	---	---
18	6.19	3.00	3.78	5.72	4.09	4.93	7.39	5.48	6.49	---	---	---
19	6.78	3.04	3.94	7.76	5.30	6.00	7.58	5.30	5.99	---	---	---
20	7.16	3.33	4.21	6.82	5.20	5.84	7.96	5.22	6.29	---	---	---
21	4.74	3.26	3.96	8.36	6.58	7.39	7.87	5.55	6.54	---	---	---
22	6.80	3.63	4.55	7.65	6.50	6.99	7.96	6.03	6.82	---	---	---
23	6.76	3.69	5.24	7.07	5.42	6.28	7.46	6.02	6.70	---	---	---
24	8.23	4.79	5.80	7.14	5.29	5.80	8.68	7.35	7.73	---	---	---
25	5.82	3.19	4.17	6.94	5.06	5.55	8.17	7.47	7.74	---	---	---
26	6.82	3.04	4.95	6.38	5.75	6.03	9.01	7.79	8.30	---	---	---
27	5.65	2.79	4.03	7.62	5.75	6.42	8.85	7.22	8.28	---	---	---
28	5.26	2.37	3.35	7.65	6.20	7.16	9.00	7.23	8.24	---	---	---
29	4.23	2.06	3.20	8.00	5.03	6.09	8.49	7.56	7.99	---	---	---
30	3.15	1.97	2.52	7.11	4.09	5.16	8.89	7.86	8.16	---	---	---
31	4.52	2.72	3.50	---	---	---	9.47	7.83	8.42	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	6.77	3.86	4.64	7.46	.77	4.27
2	---	---	---	---	---	---	7.56	3.96	4.62	7.68	1.10	4.35
3	---	---	---	---	---	---	7.02	3.50	4.37	7.05	.32	3.78
4	---	---	---	---	---	---	6.62	3.63	4.39	7.26	.13	4.12
5	5.48	4.95	5.20	5.63	5.34	5.40	7.15	3.52	4.57	8.53	.24	4.73
6	5.86	4.92	5.10	8.43	5.42	6.02	7.11	3.69	4.61	10.0	1.38	5.29
7	5.62	4.73	5.20	8.02	5.04	5.74	6.58	3.54	4.46	7.45	.60	4.37
8	6.16	5.07	5.38	8.76	5.65	7.12	7.46	4.11	5.02	6.75	.26	3.73
9	5.99	5.04	5.38	8.47	5.39	6.27	6.82	3.92	4.48	7.58	.10	3.83
10	5.47	4.79	5.13	7.03	5.10	5.88	7.38	3.46	4.64	6.70	.10	3.42
11	5.73	4.47	4.97	7.68	4.88	5.40	8.23	4.30	5.69	5.62	.70	3.97
12	5.62	4.66	5.02	6.76	4.86	5.47	7.37	3.94	4.92	8.04	3.07	6.08
13	5.65	4.65	5.14	7.67	4.84	5.42	8.14	3.78	4.66	9.81	4.46	7.42
14	5.28	4.75	5.08	7.57	4.71	5.42	8.34	3.81	5.43	8.38	2.52	5.23
15	5.75	4.53	4.93	7.31	4.82	5.57	7.08	2.84	4.27	5.99	.69	3.80
16	5.29	4.40	4.88	8.39	4.73	5.48	6.80	3.77	4.94	8.33	1.26	5.12
17	5.00	4.30	4.70	8.69	4.40	5.92	7.80	2.63	4.31	10.8	.89	5.94
18	4.65	3.88	4.23	8.72	4.72	6.14	7.00	4.32	5.05	8.24	1.38	5.52
19	4.26	3.71	3.95	8.37	4.66	5.57	9.38	4.57	5.82	8.53	3.79	6.15
20	5.02	3.92	4.43	8.21	4.39	5.37	8.01	4.47	6.39	6.91	2.70	4.94
21	5.17	3.92	4.64	7.05	4.72	5.29	8.36	3.87	5.31	9.42	5.34	7.62
22	5.44	4.47	4.85	8.50	4.30	6.15	7.33	3.81	4.51	8.93	3.96	6.40
23	5.47	3.93	4.85	9.58	7.30	8.21	6.98	3.67	4.83	7.98	1.95	5.91
24	5.69	3.96	4.37	9.52	7.55	8.45	7.39	3.64	4.60	8.69	1.49	6.11
25	5.41	4.05	4.52	9.26	4.64	6.89	7.57	2.44	4.67	8.14	2.54	6.39
26	---	---	---	7.87	4.55	5.77	6.96	1.22	4.77	9.21	2.40	6.65
27	---	---	---	8.16	4.35	5.50	7.70	2.14	5.37	9.72	4.49	7.73
28	---	---	---	8.00	4.19	4.90	7.03	1.86	4.24	8.64	5.28	6.85
29	---	---	---	7.40	4.17	5.20	6.28	2.47	4.08	10.7	4.98	7.79
30	---	---	---	9.15	4.87	6.25	7.30	.42	3.21	10.4	3.98	7.88
31	---	---	---	7.00	4.17	5.49	7.15	.25	3.92	---	---	---

07053700 LAKE TANEYCOMO AT BRANSON, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 36°38'09", long 93°12'52", in 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 present.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREPTOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	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)
NOV												
09...	1100	5.3	53	7.8	228	15.3	25	K66	8	99	98	120
MAR												
21...	1645	12.9	120	8.3	256	11.9	K6	K6	K9	113	112	137
APR												
17...	1520	7.8	81	8.1	264	17.5	K5	K13	K11	109	109	133
MAY												
16...	0720	8.6	91	8.1	260	17.9	22	27	43	106	109	133
JUN												
06...	0840	7.5	88	8.0	310	23.5	220	230	120	116	115	141
JUL												
18...	1045	6.0	54	7.6	240	10.8	54	88	K34	104	104	126

DATE	ANC CARBONATE IT FIELD (mg/L as CO_3) (00447)	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)	CHLORIDE, DISSOLVED (mg/L as Cl) (00940)	FLUORIDE, DISSOLVED (mg/L as F) (00950)	SULFATE DISSOLVED (mg/L as SO_4) (00945)	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												
09...	0	220	65.4	14.2	3.7	16.4	9.5	.2	40.8	.055	.32	.282
MAR												
21...	0	--	--	--	--	--	--	--	--	<.020	.26	.092
APR												
17...	0	--	--	--	--	--	--	--	--	<.020	.31	.128
MAY												
16...	0	110	34.3	6.77	1.6	6.7	9.7	<.1	8.0	<.020	.31	.187
JUN												
06...	0	--	--	--	--	--	--	--	--	.022	.51	.184
JUL												
18...	0	--	--	--	--	--	--	--	--	<.020	.20	.362

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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
NOV											
09...	<.010	<.050	.010	.050	11	6	283	E10	139	<8.0	<.1
MAR											
21...	<.010	<.050	<.010	<.050	--	--	--	--	--	--	--
APR											
17...	<.010	<.050	<.010	<.050	--	--	--	--	--	--	--
MAY											
16...	<.010	<.050	<.010	<.050	24	<10	146	<15	37	<8.0	<.1
JUN											
06...	<.010	<.050	<.010	E.043	--	--	--	--	--	--	--
JUL											
18...	<.010	<.050	<.010	<.050	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07053700 LAKE TANEYCOMO AT BRANSON, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)
NOV											
09...	<10	E10	<100	<1	1100	<.3	E12	<31	<.003	<.002	<.002
MAR											
21...	--	--	--	--	--	--	--	--	<.003	<.002	<.002
APR											
17...	--	--	--	--	--	--	--	--	<.003	<.002	<.002
MAY											
16...	<10	10	<100	<1	11	<.3	28	<31	<.003	<.002	<.002
JUN											
06...	--	--	--	--	--	--	--	--	<.003	<.002	<.002
JUL											
18...	--	--	--	--	--	--	--	--	<.003	<.002	<.002

DATE	ATRA-ZINE, WATER, DISS, REC (µg/L) (39632)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	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 0.7 µ GF, REC (µg/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µg/L) (04040)	DI-AZINON, DIS-SOLVED (µg/L) (39572)
NOV											
09...	.007	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
MAR											
21...	<.001	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
APR											
17...	<.005	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
MAY											
16...	.010	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
JUN											
06...	.008	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	.010
JUL											
18...	.007	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.004	<.002

DATE	DI-ELDRIN DIS-SOLVED (µg/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 µ GF, REC (µg/L) (82677)	EPTC WATER FLTRD 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)	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)	METO-LACHLOR WATER DISSOLV (µg/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µg/L) (82630)
NOV											
09...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.002	<.004
MAR											
21...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.002	<.004
APR											
17...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.002	<.004
MAY											
16...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.002	<.004
JUN											
06...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.002	<.004
JUL											
18...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.002	<.004

E--Laboratory estimated value.

07053700 LAKE TANEYCOMO AT BRANSON, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	MOLINATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	PARATHION, DISSOLVED (µg/L) (39542)	METHYL PARATHION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	PEBULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDIMETHALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PROMETON, WATER, DISS, REC (µg/L) (04037)	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)
NOV											
09...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	E.004	<.007	<.004	<.013
MAR											
21...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
APR											
17...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
MAY											
16...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	E.006	<.007	<.004	<.013
JUN											
06...	<.004	<.003	<.004	<.030	<.004	<.004	<.002	E.014	<.007	<.004	<.013
JUL											
18...	<.004	<.003	<.004	<.010	<.004	<.004	<.002	<.018	<.007	<.004	<.013

DATE	PRONAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	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)	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)	ALPHA BHC DISSOLVED (µg/L) (34253)	PERMETHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	P,P' DDE DISSOLV (µg/L) (34653)
NOV											
09...	<.003	<.005	<.020	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
MAR											
21...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
APR											
17...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
MAY											
16...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
JUN											
06...	<.003	E.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
JUL											
18...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006

E--Laboratory estimated value.

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.--Estimated daily discharges: Jan. 29 to Feb. 16. Records fair. U.S. Army Corps of Engineers 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	4.1	6.2	5.5	25	20	102	200	31	21	198	279	8.1
2	4.4	7.0	5.4	25	19	89	169	30	18	204	191	9.0
3	4.6	6.0	12	400	19	740	144	32	13	251	141	8.8
4	5.4	6.0	16	393	19	1090	121	33	17	157	108	9.9
5	5.2	6.2	128	205	18	633	106	35	15	110	86	9.2
6	5.0	6.5	100	134	18	385	95	35	13	81	72	7.3
7	4.6	6.8	81	102	18	273	85	33	12	62	62	7.2
8	4.3	6.6	67	84	18	213	75	30	10	50	54	7.2
9	4.6	6.5	108	76	17	171	67	28	9.1	42	47	7.7
10	8.8	6.5	912	70	17	141	61	27	7.2	37	41	8.6
11	4.8	6.3	373	65	20	125	60	25	10	32	36	8.0
12	4.2	6.2	509	58	22	111	56	23	12	843	32	11
13	4.4	6.2	398	52	23	104	54	21	9.5	648	29	11
14	4.7	6.1	217	47	22	94	50	19	11	301	25	9.7
15	4.5	6.1	144	43	21	86	48	17	15	187	22	8.8
16	4.5	5.9	102	41	20	80	46	19	14	134	20	8.0
17	4.9	5.6	82	38	188	73	44	17	1820	101	18	7.6
18	4.8	5.8	68	35	742	70	43	16	1000	82	15	7.5
19	4.8	5.6	58	34	513	72	40	15	408	67	16	6.7
20	4.3	5.6	50	32	296	77	40	14	233	72	16	5.6
21	4.1	5.6	45	30	201	75	38	16	1890	97	14	5.7
22	4.2	5.7	41	30	152	70	36	16	1150	622	13	6.1
23	4.1	8.9	38	30	121	66	35	14	557	1340	13	10
24	4.3	7.7	36	28	102	63	33	14	322	520	12	20
25	4.7	6.6	34	27	94	61	32	102	218	279	10	20
26	4.9	6.3	32	26	137	82	31	95	156	181	9.9	17
27	4.9	6.0	30	25	157	215	29	68	122	136	8.9	17
28	5.0	5.7	29	24	134	171	28	49	484	110	8.2	15
29	5.1	5.6	28	23	115	169	26	38	640	1680	7.7	14
30	4.5	5.5	27	22	---	329	25	34	295	934	7.4	13
31	4.6	---	26	21	---	257	---	26	---	447	6.9	---
MEAN	4.75	6.24	123	72.4	113	203	63.9	31.4	317	323	45.8	10.2
MAX	8.8	8.9	912	400	742	1090	200	102	1890	1680	279	20
MIN	4.1	5.5	5.4	21	17	61	25	14	7.2	32	6.9	5.6

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

MEAN	31.2	118	115	310	248	362	449	298	203	83.3	16.8	35.7
MAX	72.3	402	145	721	471	834	809	638	594	323	45.8	165
(WY)	1999	1995	1995	1995	1998	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	184		109		186	
HIGHEST ANNUAL MEAN					330	1995
LOWEST ANNUAL MEAN					95.1	1996
HIGHEST DAILY MEAN	3570	Feb 7	1890	Jun 21	6280	Jan 13 1995
LOWEST DAILY MEAN	4.1	Sep 2	4.1	Oct 1,21,23	1.6	Sep 14 1996
ANNUAL SEVEN-DAY MINIMUM	4.4	Oct 19	4.4	Oct 19	1.8	Aug 17 1992
INSTANTANEOUS PEAK FLOW	---		4070	Jun 17	16700	Jan 13 1995
INSTANTANEOUS PEAK STAGE	---		6.71	Jun 17	11.25	Jan 13 1995
INSTANTANEOUS LOW FLOW	---		4.1	Oct 1,21,23	1.6	Sep 13 1996
10 PERCENT EXCEEDS	513		262		400	
50 PERCENT EXCEEDS	65		30		37	
90 PERCENT EXCEEDS	4.8		5.6		3.0	

07053900 SWAN CREEK NEAR SWAN, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 36°47'02", long 93°05'04", in sec.1, 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.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV 08...	1600	4.9	8.4	84	8.2	464	16.4	K3	K5	86	252
JAN 24...	1430	16	12.8	106	7.9	386	6.8	K1	K1	K1	197
MAR 21...	1505	41	12.0	114	8.5	342	12.8	K2	K2	K8	193
MAY 17...	1200	11	10.1	120	8.2	414	23.7	K4	69	K17	238
JUL 17...	1545	29	8.2	101	8.1	406	26.0	K1	K65	120	215
SEP 06...	1435	4.9	8.5	105	8.0	472	27.0	28	63	30	240

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV 08...	254	310	0	240	48.0	29.1	--	2.3	3.1	<.1	6.0
JAN 24...	199	243	0	--	--	--	--	--	--	--	--
MAR 21...	195	228	5	--	--	--	--	--	--	--	--
MAY 17...	236	288	0	220	46.8	25.6	.8	2.3	4.3	.1	7.6
JUL 17...	218	267	0	--	--	--	--	--	--	--	--
SEP 06...	240	293	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV 08...	.023	E.10	.064	<.010	<.050	<.010	<.050	<10	<1	--	<15
JAN 24...	<.020	E.10	.383	<.010	<.050	<.010	<.050	--	--	--	--
MAR 21...	<.020	.13	.382	<.010	<.050	<.010	<.050	--	--	--	--
MAY 17...	<.020	.17	.124	<.010	<.050	<.010	<.050	<10	<10	233	<15
JUL 17...	<.020	.17	.166	<.010	<.050	<.010	<.050	--	--	--	--
SEP 06...	<.020	.14	.082	<.010	<.050	<.010	<.050	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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...	E19	<8.0	<.1	<10	<10	E64	<1	6	<.3	21	<31
MAY 17...	E28	<8.0	<.1	<10	E10	<100	<1	10	<.3	E17	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.--No estimated daily discharges. Records good. 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	28	35	25	39	38	108	141	43	33	162	45	24
2	28	32	25	38	37	100	131	42	33	132	41	25
3	27	31	39	77	37	171	120	42	32	111	39	24
4	28	30	48	108	37	386	109	41	31	94	38	24
5	28	30	63	89	37	373	101	40	30	81	36	24
6	29	30	48	81	36	292	94	40	29	71	34	26
7	29	30	37	77	36	230	88	41	28	64	35	26
8	36	30	32	76	36	197	82	39	28	58	33	27
9	40	30	49	77	37	171	77	38	27	53	31	28
10	43	29	85	73	37	151	75	38	27	48	29	29
11	35	28	73	69	36	146	74	37	28	45	28	28
12	32	27	157	65	40	133	71	35	27	51	27	31
13	31	27	170	61	39	121	68	33	26	52	26	32
14	31	27	134	58	39	115	66	32	30	45	26	30
15	32	27	106	56	39	114	62	32	33	41	25	28
16	32	26	88	54	38	111	62	33	30	39	24	26
17	31	26	77	52	140	105	59	32	109	37	24	26
18	31	26	70	51	377	102	58	31	99	37	24	26
19	32	26	64	50	360	100	57	31	96	35	26	25
20	32	26	59	48	276	95	55	30	82	45	25	25
21	33	26	55	46	210	89	54	30	311	47	24	25
22	33	26	51	46	176	86	52	30	487	45	23	26
23	29	35	49	45	152	82	51	29	247	45	22	29
24	29	33	47	43	135	80	49	30	162	39	24	51
25	29	28	45	42	124	79	48	76	123	36	26	50
26	30	26	43	41	126	83	47	55	98	34	26	41
27	30	26	42	40	125	97	46	46	86	33	27	34
28	30	26	42	40	125	91	44	42	185	33	27	31
29	29	26	41	41	115	96	44	36	293	53	27	30
30	28	26	40	40	---	144	43	34	219	60	26	29
31	28	---	39	39	---	143	---	34	---	51	25	---
MEAN	31.1	28.4	62.7	56.8	105	142	70.9	37.8	102	57.3	28.8	29.3
MAX	43	35	170	108	377	386	141	76	487	162	45	51
MIN	27	26	25	38	36	79	43	29	26	33	22	24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

MEAN	65.5	322	178	365	526	597	546	457	227	79.5	70.5	100
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	31.1	28.4	62.7	56.8	105	142	70.9	37.8	102	49.7	28.8	27.9
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	1997	2000	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000	
ANNUAL MEAN	272		62.5		293	
HIGHEST ANNUAL MEAN					464	1995
LOWEST ANNUAL MEAN					62.5	2000
HIGHEST DAILY MEAN	11100	Feb 7	487	Jun 22	11100	Feb 7 1999
LOWEST DAILY MEAN	25	Dec 1,2	22	Aug 23	22	Aug 23 2000
ANNUAL SEVEN-DAY MINIMUM	26	Nov 26	24	Aug 17	24	Aug 17 2000
INSTANTANEOUS PEAK FLOW	---		726	Jun 21	17700	Feb 7 1999
INSTANTANEOUS PEAK STAGE	---		5.05	Jun 21	14.03	Feb 7 1999
INSTANTANEOUS LOW FLOW	---		21	Aug 23,24	21	Aug 23 2000
10 PERCENT EXCEEDS	616		125		689	
50 PERCENT EXCEEDS	94		39		107	
90 PERCENT EXCEEDS	27		26		33	

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 and 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.--Estimated daily discharges: Oct. 11-13, Dec. 13, 14, Feb. 19-28, and June 23-28. Water-discharge records fair. U.S. Army Corps of Engineers 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	336	345	301	310	301	599	477	306	451	428	331	266
2	341	337	302	313	301	543	463	306	414	407	316	266
3	342	333	323	354	318	531	449	307	386	394	306	271
4	342	331	335	395	325	562	429	304	366	396	302	274
5	341	326	342	401	325	585	410	301	352	385	300	273
6	341	323	329	379	324	569	400	301	337	372	297	270
7	342	321	322	364	321	538	393	301	327	378	292	271
8	357	321	316	364	320	509	384	299	317	369	290	272
9	365	320	333	365	320	494	370	296	309	361	288	272
10	396	320	363	362	324	468	363	293	306	354	283	273
11	383	320	380	353	327	461	361	291	303	348	279	274
12	371	314	421	346	330	449	355	291	297	347	276	284
13	359	312	500	340	331	437	350	285	296	340	277	284
14	347	310	450	334	327	428	346	279	303	332	275	280
15	343	310	421	331	324	422	344	277	307	327	271	275
16	346	310	401	331	321	417	347	277	300	323	271	272
17	362	310	381	326	345	408	344	277	406	318	275	275
18	340	309	368	325	445	400	338	278	543	315	274	272
19	337	310	358	321	1100	416	336	276	507	314	271	272
20	329	308	349	319	800	431	334	272	449	308	272	268
21	327	306	340	315	680	435	328	272	597	303	274	263
22	320	306	336	315	580	420	325	271	805	301	273	267
23	316	324	331	315	520	408	326	267	650	296	279	264
24	315	320	327	312	600	404	329	274	550	286	271	285
25	336	315	323	308	550	400	323	1290	450	279	268	287
26	340	313	320	306	500	399	318	1260	390	274	271	274
27	340	307	320	305	480	397	314	1330	350	275	271	268
28	336	306	319	307	751	394	310	910	380	272	267	261
29	331	303	316	307	660	405	309	720	727	308	265	258
30	331	301	315	306	---	439	306	595	571	348	267	258
31	333	---	313	301	---	476	---	511	---	353	266	---
MEAN	343	316	350	333	453	459	359	436	425	336	281	272
MAX	396	345	500	401	1100	599	477	1330	805	428	331	287
MIN	315	301	301	301	301	394	306	267	296	272	265	258
IN.	.71	.63	.72	.68	.87	.94	.71	.90	.85	.69	.58	.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2000, BY WATER YEAR (WY)

MEAN	415	661	711	731	861	1073	1256	1130	766	541	413	426
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	352	276	239	204	193
(WY)	1957	1955	1956	1956	1964	1981	2000	1977	1954	1954	1954	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1945 - 2000	
ANNUAL MEAN	664		363		748	
HIGHEST ANNUAL MEAN					1555	1985
LOWEST ANNUAL MEAN					299	1954
HIGHEST DAILY MEAN	9630	Feb 7	1330	May 27	45100	Nov 19 1985
LOWEST DAILY MEAN	301	Nov 30,Dec 1	258	Sep 29,30	187	Sep 15 1954
ANNUAL SEVEN-DAY MINIMUM	305	Nov 26	267	Aug 27	188	Sep 12 1954
INSTANTANEOUS PEAK FLOW	---		2250	May 25	133000	Nov 19 1985
INSTANTANEOUS PEAK STAGE	---		4.56	May 25	28.10	Nov 19 1985
INSTANTANEOUS LOW FLOW	---		258	Sep 23	187	Sep 14 1954
ANNUAL RUNOFF (INCHES)	16.08		8.82		18.11	
10 PERCENT EXCEEDS	1260		478		1340	
50 PERCENT EXCEEDS	449		326		504	
90 PERCENT EXCEEDS	316		273		293	

07057500 NORTH FORK RIVER NEAR TECUMSEH, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1969 to 1972, 1978 to 1979, 1983 to 1987, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
08...	1305	320	10.8	108	8.3	397	15.8	K3	K9	K3	209
JAN											
24...	1230	310	12.0	101	7.9	380	8.0	K1	K2	K6	192
MAR											
21...	1235	434	11.0	104	8.4	341	12.5	K8	K8	K3	229
MAY											
15...	1530	277	11.8	123	8.1	391	17.9	K2	K4	K5	209
JUL											
17...	1310	315	9.6	110	7.7	375	22.0	K12	K22	23	198
SEP											
05...	1430	223	9.7	112	8.1	398	23.2	K3	K20	K13	211

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
08...	213	250	0	220	44.7	26.7	.9	2.6	2.2	<.1	4.2
JAN											
24...	198	241	0	--	--	--	--	--	--	--	--
MAR											
21...	229	270	5	--	--	--	--	--	--	--	--
MAY											
15...	209	255	0	220	44.7	26.5	1.2	1.6	3.2	<.1	4.1
JUL											
17...	199	243	0	--	--	--	--	--	--	--	--
SEP											
05...	212	259	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV											
08...	.024	E.10	.413	<.010	<.050	<.010	<.050	<10	1	--	<15
JAN											
24...	<.020	<.10	.680	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
21...	<.020	.11	.871	<.010	<.050	<.010	<.050	--	--	--	--
MAY											
15...	<.020	.11	.326	<.010	<.050	<.010	<.050	<10	<10	204	<15
JUL											
17...	<.020	.14	.497	<.010	<.050	.010	E.031	--	--	--	--
SEP											
05...	<.020	.18	.309	<.010	<.050	<.010	<.050	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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...	<28	<8.0	<.1	<10	<10	<100	<1	<2	<.3	37	<31
MAY											
15...	E20	E3.2	<.1	<10	E10	<100	<1	E2	<.3	<20	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07057750 BRYANT CREEK BELOW EVANS, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 36°52'16", long 92°28'18", in NW $^1/_4$ NW $^1/_4$ sec.10, T.25 N., R.14 W., Douglas County, Hydrologic Unit 11010006. Sampling site is located off Highway 14, 12 mi west of Highway 95 intersection, and 13 mi south of Ava.

DRAINAGE AREA.--214 mi^2.

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
08...	1110	31	10.3	98	8.3	427	13.3	27	50	95	224
JAN											
24...	1010	36	11.6	90	7.8	402	4.5	K12	K14	K15	178
MAR											
21...	1105	44	11.2	101	8.5	374	10.4	K7	20	K20	256
MAY											
15...	1225	29	10.4	106	8.2	430	16.9	K17	40	53	221
JUL											
17...	1105	28	6.3	76	7.9	413	24.2	K1	K1	440	233
SEP											
05...	1135	23	7.7	88	7.8	441	23.0	K13	120	90	231

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
08...	228	278	0	230	48.3	27.3	.8	2.8	3.8	<.1	4.6
JAN											
24...	182	223	0	--	--	--	--	--	--	--	--
MAR											
21...	257	308	2	--	--	--	--	--	--	--	--
MAY											
15...	225	274	0	230	48.0	26.4	1.0	2.0	4.9	<.1	3.7
JUL											
17...	234	286	0	--	--	--	--	--	--	--	--
SEP											
05...	235	286	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)
NOV											
08...	.033	E.10	.548	<.010	<.050	.010	<.050	<10	<1	<15	E17
JAN											
24...	<.020	E.10	.646	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
21...	<.020	.10	.536	<.010	E.030	<.010	<.050	--	--	--	--
MAY											
15...	<.020	.13	.292	<.010	<.050	<.010	<.050	<10	<10	<15	E27
JUL											
17...	.029	.16	.361	<.010	<.050	<.010	<.050	--	--	--	--
SEP											
05...	<.020	.13	.321	<.010	<.050	<.010	<.050	--	--	--	--

DATE	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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...	<8.0	<.1	<10	<10	<100	<1	4	<.3	27	<31
MAY										
15...	<8.0	<.1	<10	E10	<100	<1	6	<.3	<20	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.--No estimated daily discharges. Records good except for discharges above 1500 ft^3/s, which are poor. U.S. Army Corps of Engineers 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	137	171	153	162	162	280	233	160	181	316	172	133
2	138	167	154	163	161	257	231	162	172	273	161	132
3	138	160	173	173	161	281	226	164	169	246	155	132
4	139	159	208	209	160	426	214	166	163	352	150	131
5	140	160	198	220	159	446	206	164	159	327	148	131
6	140	160	188	204	157	411	203	164	154	261	149	132
7	141	160	179	193	157	370	199	164	152	226	145	132
8	148	160	172	192	157	334	193	164	149	205	144	132
9	154	160	183	197	157	302	186	162	147	192	144	132
10	179	160	208	195	159	278	185	158	148	181	138	132
11	183	158	221	189	160	274	187	157	154	174	138	131
12	168	157	317	184	163	259	183	156	153	174	138	130
13	162	157	358	180	164	243	179	153	148	171	138	130
14	156	157	292	174	163	233	179	148	151	162	137	129
15	157	155	244	172	160	227	179	148	165	157	136	129
16	160	155	210	172	159	224	184	151	158	154	136	128
17	185	155	184	172	172	217	179	153	286	153	136	130
18	166	155	178	172	454	213	175	154	405	152	136	130
19	160	156	174	170	533	226	175	156	315	150	137	132
20	158	155	172	168	400	221	174	152	246	158	137	132
21	157	155	169	165	337	215	169	151	538	189	136	134
22	157	156	167	167	297	208	167	150	619	186	136	135
23	155	172	166	167	270	203	171	147	456	170	136	139
24	155	175	164	164	251	202	177	149	344	159	135	146
25	155	168	164	162	240	200	171	499	287	152	135	157
26	157	162	163	160	325	202	166	433	250	147	134	145
27	157	161	162	159	380	205	163	328	233	144	134	135
28	157	158	162	162	335	200	162	290	238	143	133	130
29	157	154	162	164	301	206	161	248	348	171	133	126
30	158	153	162	162	---	225	159	217	387	214	133	124
31	160	---	162	163	---	236	---	196	---	193	133	---
MEAN	156	160	193	176	236	259	185	192	249	195	140	133
MAX	185	175	358	220	533	446	233	499	619	352	172	157
MIN	137	153	153	159	157	200	159	147	147	143	133	124
IN.	.32	.31	.39	.36	.45	.52	.36	.39	.49	.39	.28	.26

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

MEAN	238	413	514	510	633	849	958	870	520	349	228	231
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	500		189		525	
HIGHEST ANNUAL MEAN					1229	1985
LOWEST ANNUAL MEAN					149	1954
HIGHEST DAILY MEAN	13900	Feb 7	619	Jun 22	52000	Dec 3 1982
LOWEST DAILY MEAN	136	Sep 30	124	Sep 30	97	Aug 18 1954
ANNUAL SEVEN-DAY MINIMUM	138	Sep 29	129	Sep 12	99	Sep 13 1954
INSTANTANEOUS PEAK FLOW	---		828	Jun 21	71100	Dec 3 1982
INSTANTANEOUS PEAK STAGE	---		5.10	Jun 21	26.74	Dec 3 1982
INSTANTANEOUS LOW FLOW	---		122	Sep 30	96	Sep 16,17 1954
ANNUAL RUNOFF (INCHES)	11.91		4.52		12.52	
10 PERCENT EXCEEDS	1100		280		1040	
50 PERCENT EXCEEDS	255		163		267	
90 PERCENT EXCEEDS	147		136		142	

07061150 WEST FORK BLACK RIVER AT CENTERVILLE, MO
(Ambient water-quality monitoring network)

LOCATION.--Lat 37°26'44", long 90°57'45", sec.20, T.32 N., R.1 E., Reynolds County, Hydrologic Unit 11010007, approximately 1.0 mi north of Centerville on State Highway 72.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV 01...	1355	50	9.7	99	7.5	402	16.8	K16	50	45	153
JAN 10...	1005	79	11.9	100	7.8	343	7.2	K4	K3	K6	139
MAR 13...	1005	76	11.7	103	7.9	299	9.6	K2	K1	K6	129
MAY 08...	1200	44	9.9	109	7.3	523	20.0	K1	K7	K11	150
JUL 24...	1000	33	8.0	93	7.9	363	22.9	K8	K12	K7	161
SEP 11...	1045	26	7.4	89	7.9	416	25.3	K4	K11	K3	161

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV 01...	155	189	0	190	36.0	24.9	1.2	8.4	10.1	.2	41.8
JAN 10...	143	175	0	--	--	--	--	--	--	--	--
MAR 13...	131	160	0	--	--	--	--	--	--	--	--
MAY 08...	153	187	0	180	34.5	21.7	1.1	5.6	12.8	.2	24.1
JUL 24...	159	194	0	--	--	--	--	--	--	--	--
SEP 11...	163	199	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV 01...	<.020	.16	.140	<.010	<.050	<.010	<.050	<10	3	229	<15
JAN 10...	<.020	<.10	.363	<.010	<.050	<.010	<.050	--	--	--	--
MAR 13...	<.020	<.10	.485	.012	<.050	<.010	<.050	--	--	--	--
MAY 08...	<.020	E.10	.135	<.010	<.050	<.010	<.050	<10	<10	204	<15
JUL 24...	<.020	<.10	.098	<.010	<.050	<.010	<.050	--	--	--	--
SEP 11...	<.020	E.10	.061	<.010	<.050	<.010	<.050	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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 01...	<28	<8.0	<.1	<10	<10	<100	<1	<2	<.3	E15	<31
MAY 08...	<28	<8.0	<.1	<10	E10	<100	<1	<2	<.3	<20	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07061260 EAST FORK BLACK RIVER NEAR IRONTON, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°36'14", long 90°47'19", sec.35, T.34 N., R.2 E., Iron County, Hydrologic Unit 11010007, located approximately 6.0 mi southwest of State Highway 21 on County Highway N.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
01...	1210	2.7	8.2	83	7.5	332	16.1	150	180	32	167
JAN											
10...	1140	6.1	11.4	95	7.3	223	6.9	K4	K3	K12	100
MAR											
13...	1150	7.1	10.9	97	8.1	213	10.1	K1	K1	K2	100
MAY											
11...	0745	2.0	7.7	85	7.7	265	18.6	K26	K16	64	138
JUL											
24...	1115	1.5	7.3	84	7.7	301	21.9	K5	K4	180	156
SEP											
11...	1205	1.7	7.1	86	7.8	331	25.3	K1	23	K20	164

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
01...	169	206	0	170	34.2	21.5	1.0	2.7	1.7	.1	6.2
JAN											
10...	102	124	0	--	--	--	--	--	--	--	--
MAR											
13...	98	119	0	--	--	--	--	--	--	--	--
MAY											
11...	139	170	0	150	30.5	17.2	1.1	2.6	2.4	.1	5.6
JUL											
24...	149	182	0	--	--	--	--	--	--	--	--
SEP											
11...	165	201	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

07061260 EAST FORK BLACK RIVER NEAR IRONTON, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
NOV											
01...	<.020	E.10	<.050	<.010	<.050	<.010	<.050	<10	<1	181	<15
JAN											
10...	<.020	<.10	.099	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
13...	<.020	<.10	.098	<.010	<.050	<.010	<.050	--	--	--	--
MAY											
11...	<.020	E.10	.065	<.010	<.050	<.010	<.050	<10	<10	158	<15
JUL											
24...	<.020	E.10	.050	<.010	<.050	<.010	<.050	--	--	--	--
SEP											
11...	<.020	.15	<.050	<.010	<.050	<.010	<.050	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
01...	E21	<8.0	<.1	<10	E10	<100	<1	13	<.3	E15	<31
MAY											
11...	<28	<8.0	<.1	<10	E10	<100	<1	18	<.3	24	<31

E--Laboratory estimated value.

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.--Estimated daily discharges: Feb. 1-4, 6, 7, Aug. 1 and Aug. 3-6. Records good. Occasional slight regulation from upstream reservoir since February 1963. U.S. Army Corps of Engineers gage-height and satellite telemeters 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	126	167	159	210	200	758	364	168	159	192	164	97
2	127	183	159	190	198	586	312	165	153	180	154	95
3	127	172	174	248	196	657	314	164	147	180	156	92
4	128	170	201	435	190	521	334	163	142	197	159	89
5	129	166	251	464	217	478	279	163	141	239	156	87
6	131	164	299	392	205	461	264	166	138	230	154	86
7	131	161	278	357	196	385	238	168	135	214	154	86
8	146	161	234	347	191	425	238	168	131	203	148	87
9	154	161	244	365	183	354	259	169	126	193	143	91
10	165	161	640	319	181	327	217	174	123	177	134	94
11	160	159	857	299	181	302	209	170	123	154	128	95
12	156	159	763	279	181	286	205	171	132	144	124	97
13	155	159	868	261	187	290	201	173	139	138	120	99
14	152	157	740	238	194	285	220	156	144	134	115	99
15	150	156	613	226	190	280	219	151	144	129	110	97
16	155	156	477	219	185	273	202	148	152	125	107	95
17	167	155	378	214	209	267	212	147	354	125	104	93
18	161	156	329	210	774	267	248	149	463	127	105	92
19	160	156	355	205	1330	292	201	161	423	125	108	90
20	157	156	287	198	861	399	188	156	281	125	112	88
21	156	156	271	194	702	751	181	155	309	127	112	87
22	156	162	246	193	579	777	177	152	563	128	111	87
23	156	167	242	190	445	624	176	148	400	125	110	88
24	155	174	248	188	459	526	189	144	325	120	110	99
25	154	178	231	184	375	457	234	152	291	116	112	114
26	154	175	222	181	872	357	207	179	287	112	111	122
27	154	170	216	179	2080	459	198	198	276	109	111	128
28	154	166	205	181	1370	412	177	201	253	108	110	123
29	154	162	196	180	898	394	195	190	234	149	107	117
30	155	161	189	192	---	416	173	178	204	182	103	114
31	156	---	212	209	---	381	---	166	---	173	100	---
MEAN	150	164	348	250	484	434	228	165	230	154	124	97.6
MAX	167	183	868	464	2080	777	364	201	563	239	164	128
MIN	126	155	159	179	181	267	173	144	123	108	100	86
IN.	.36	.38	.83	.60	1.08	1.03	.53	.39	.53	.37	.30	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

MEAN	267	660	678	612	744	1003	1168	877	517	293	210	229
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939 - 2000	
ANNUAL MEAN	629		235		604	
HIGHEST ANNUAL MEAN					1420	1985
LOWEST ANNUAL MEAN					235	2000
HIGHEST DAILY MEAN	20600	Feb 7	2080	Feb 27	47900	Nov 14 1993
LOWEST DAILY MEAN	102	Sep 7,8	86	Sep 6,7	66	Sep 15 1954
ANNUAL SEVEN-DAY MINIMUM	104	Sep 3	88	Sep 3	67	Aug 12 1965
INSTANTANEOUS PEAK FLOW	---		2330	Feb 27	109000	Nov 14 1993
INSTANTANEOUS PEAK STAGE	---		6.28	Feb 27	27.38	Nov 14 1993
INSTANTANEOUS LOW FLOW	---		85	Sep 6,7	65	Aug 16 1965
ANNUAL RUNOFF (INCHES)	17.65		6.61		16.97	
10 PERCENT EXCEEDS	1270		418		1160	
50 PERCENT EXCEEDS	229		174		278	
90 PERCENT EXCEEDS	126		110		119	

07061600 BLACK RIVER BELOW ANNAPOLIS, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°19'30", long 90°45'50", in SE $^1/_4$ NW $^1/_4$ sec.31, T.31 N., R.3 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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
02...	0800	172	9.7	93	7.5	313	13.4	52	59	82	132
JAN											
10...	1350	316	12.3	107	7.8	282	9.1	K1	K1	K1	115
MAR											
13...	1335	288	10.9	112	7.9	247	16.5	K1	K5	K1	108
MAY											
08...	1400	168	8.2	92	7.3	287	21.0	K1	K1	K1	132
JUL											
24...	1325	121	9.2	108	7.7	297	23.3	K3	K5	K12	140
SEP											
14...	1220	99	8.5	101	7.7	319	23.7	<1	K8	K3	144

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
02...	136	166	0	170	37.6	19.3	.6	11.0	5.6	<.1	24.9
JAN											
10...	117	143	0	--	--	--	--	--	--	--	--
MAR											
13...	108	132	0	--	--	--	--	--	--	--	--
MAY											
08...	136	166	0	150	30.1	17.9	.8	3.2	3.9	.1	17.2
JUL											
24...	141	172	0	--	--	--	--	--	--	--	--
SEP											
14...	144	176	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV											
02...	<.020	E.10	.058	<.010	<.050	<.010	<.050	<10	<1	175	<15
JAN											
10...	<.020	E.10	.288	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
13...	<.020	<.10	.454	<.010	<.050	<.010	<.050	--	--	--	--
MAY											
08...	<.020	<.10	.173	<.010	<.050	<.010	<.050	<10	<10	166	E12
JUL											
24...	<.020	E.10	.110	<.010	<.050	<.010	<.050	--	--	--	--
SEP											
14...	<.020	E.10	.067	<.010	<.050	<.010	<.050	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
02...	E20	<8.0	<.1	<10	E10	<100	<1	E1	<.3	23	<31
MAY											
08...	E23	<8.0	<.1	<10	10	<100	<1	2	<.3	31	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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 Highway 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.--Estimated daily discharge: May 26. Records 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	2.7	3.1	2.8	4.9	5.0	19	7.6	3.7	3.0	7.0	2.1	1.7
2	2.7	3.1	2.8	4.9	4.8	16	7.2	3.7	2.9	6.0	2.0	1.7
3	2.6	3.0	3.3	13	4.8	16	6.4	3.8	2.9	8.9	1.9	1.8
4	2.5	3.0	3.8	8.3	4.7	15	6.3	3.7	2.9	9.4	2.0	1.7
5	2.6	3.0	4.5	7.0	5.0	14	6.3	3.7	2.9	6.3	1.9	1.6
6	2.6	3.0	3.6	6.6	4.8	12	6.3	4.1	2.8	6.4	2.0	1.6
7	2.7	3.0	3.4	6.3	4.8	11	6.2	3.8	2.8	5.7	2.0	1.5
8	3.2	2.9	3.4	6.4	4.8	11	6.2	3.6	2.7	4.7	2.0	1.6
9	3.1	2.9	5.5	6.2	4.8	10	5.9	3.8	2.7	4.5	2.0	1.6
10	3.5	2.9	8.8	6.8	4.8	9.5	5.8	3.5	2.6	5.3	1.9	1.6
11	2.9	3.0	5.5	6.4	4.8	9.3	5.5	3.4	2.6	4.6	2.0	1.5
12	2.8	2.9	16	6.1	4.7	8.2	5.3	3.4	2.5	3.8	2.1	1.5
13	2.7	2.9	10	6.2	4.9	7.7	5.1	3.5	2.5	3.6	2.3	1.5
14	2.8	2.9	8.7	5.7	4.9	7.8	5.3	3.4	2.6	3.3	2.1	1.5
15	2.8	2.8	8.2	5.6	4.8	7.7	5.1	3.3	2.7	3.1	2.1	1.4
16	3.2	2.8	7.7	6.1	4.6	7.4	5.5	3.1	3.9	3.1	2.1	1.3
17	3.5	2.7	7.4	5.7	14	7.0	5.0	3.1	8.0	3.5	2.1	1.4
18	3.0	2.7	7.0	5.7	35	7.7	4.9	3.2	5.3	3.2	2.2	1.3
19	3.0	2.8	6.4	5.5	20	7.9	4.8	3.2	4.1	2.9	2.3	1.3
20	2.9	2.8	6.1	5.3	16	8.2	4.6	3.1	7.4	3.2	2.5	1.3
21	2.9	2.9	6.0	5.5	13	7.6	4.4	2.9	22	3.0	2.5	1.2
22	2.8	3.3	5.8	5.2	12	7.5	4.3	2.9	11	2.8	2.6	1.2
23	2.8	3.2	5.7	5.3	10	7.3	4.3	2.9	8.5	2.6	2.5	1.2
24	2.8	3.0	5.8	5.1	9.9	7.0	4.7	2.8	7.0	2.3	2.6	4.4
25	2.8	2.8	5.3	5.0	10	7.0	4.6	2.9	6.0	2.5	2.3	2.5
26	2.8	2.8	5.6	5.2	59	7.6	4.1	4.8	7.9	2.5	2.0	1.9
27	2.8	2.7	5.5	4.9	43	7.5	4.2	4.0	9.7	2.2	2.0	1.6
28	2.9	2.8	5.4	5.2	27	7.1	4.2	3.7	7.5	2.0	1.9	1.4
29	2.9	2.9	5.2	5.3	22	6.9	4.0	3.5	6.8	4.5	1.9	1.3
30	2.8	2.8	5.0	5.1	---	7.0	3.8	3.3	6.4	3.3	1.8	1.2
31	2.9	---	5.1	5.0	---	6.8	---	3.1	---	2.5	1.8	---
MEAN	2.87	2.91	5.98	5.98	12.7	9.41	5.26	3.45	5.42	4.15	2.11	1.61
MAX	3.5	3.3	16	13	59	19	7.6	4.8	22	9.4	2.6	4.4
MIN	2.5	2.7	2.8	4.9	4.6	6.8	3.8	2.8	2.5	2.0	1.8	1.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

MEAN	6.09	22.2	11.0	13.5	53.3	34.7	75.7	59.8	35.5	10.1	7.16	7.42
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	2.87	2.91	3.63	5.98	7.36	9.41	5.26	3.45	5.42	3.77	2.11	1.61
(WY)	2000	2000	1998	2000	1996	2000	2000	2000	2000	1999	2000	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000	
ANNUAL MEAN	42.0		5.13		27.8	
HIGHEST ANNUAL MEAN					43.1	1999
LOWEST ANNUAL MEAN					5.13	2000
HIGHEST DAILY MEAN	3070	Feb 7	59	Feb 26	3070	Feb 7 1999
LOWEST DAILY MEAN	2.5	Oct 4	1.2	Sep 21-23,30	1.2	Sep 21-23,30 2000
ANNUAL SEVEN-DAY MINIMUM	2.6	Sep 30	1.3	Sep 17	1.3	Sep 17 2000
INSTANTANEOUS PEAK FLOW	---		109	Feb 26	10300	Jun 20 1998
INSTANTANEOUS PEAK STAGE	---		3.05	Feb 26	9.26	Jun 20 1998
INSTANTANEOUS LOW FLOW	---		1.1	Sep 23	1.1	Sep 23 2000
10 PERCENT EXCEEDS	47		8.2		33	
50 PERCENT EXCEEDS	6.0		3.7		8.5	
90 PERCENT EXCEEDS	2.8		2.0		3.0	

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, 38,800 ac-ft, June 22, elevation, 502.84 ft; minimum, 21,800 ac-ft, March 25, elevation, 493.95 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	500.00	494.61	494.28	494.29	494.40	499.32	494.27	497.51	499.40	501.56	500.39	500.17
2	499.75	494.47	494.15	494.34	494.27	497.63	494.19	497.72	499.55	501.00	500.22	500.17
3	499.52	494.25	494.35	494.56	494.24	496.48	494.13	497.90	499.67	500.62	500.23	500.18
4	499.28	494.18	494.63	494.65	494.27	496.24	494.13	498.07	499.78	500.91	500.31	500.18
5	499.01	494.23	494.89	494.79	494.29	495.81	494.12	498.27	499.92	501.03	500.32	500.17
6	498.84	494.27	494.86	494.69	494.33	495.26	494.09	498.44	500.03	500.73	500.32	500.16
7	498.72	494.30	494.59	494.56	494.36	494.56	494.11	498.61	500.12	500.29	500.29	500.16
8	498.75	494.24	494.49	494.53	494.37	494.18	494.11	498.81	500.22	500.20	500.25	500.17
9	498.71	494.14	494.47	494.50	494.37	494.25	494.11	499.03	500.31	500.11	500.20	500.19
10	498.66	494.14	495.03	494.40	494.37	494.25	494.15	499.17	500.41	500.04	500.18	500.26
11	498.59	494.20	495.88	494.25	494.37	494.20	494.16	499.34	500.51	500.04	500.18	500.28
12	498.52	494.26	496.72	494.05	494.36	494.10	494.15	499.51	500.60	500.12	500.19	500.26
13	498.44	494.29	497.23	494.08	494.43	494.06	494.11	499.67	500.71	500.15	500.21	500.18
14	498.35	494.34	496.41	494.30	494.43	494.19	494.15	499.79	500.77	500.14	500.17	500.17
15	498.19	494.37	495.19	494.32	494.43	494.31	494.31	499.92	500.42	500.13	500.17	500.18
16	498.02	494.36	494.57	494.34	494.44	494.36	494.52	500.04	500.42	500.11	500.17	500.20
17	497.89	494.34	494.44	494.36	494.86	494.36	494.65	499.49	500.84	500.11	500.18	500.21
18	497.64	494.32	494.39	494.37	496.15	494.37	494.81	498.36	501.51	500.14	500.21	500.22
19	497.31	494.32	494.29	494.39	498.36	494.44	495.01	497.23	501.95	500.16	500.22	500.26
20	496.99	494.31	494.18	494.33	499.66	494.50	495.25	496.87	502.28	500.21	500.25	500.29
21	496.66	494.29	494.15	494.28	500.63	494.51	495.45	497.12	502.69	500.24	500.26	500.30
22	496.33	494.30	494.18	494.27	500.65	494.51	495.65	497.33	502.84	500.27	500.25	500.28
23	495.97	494.34	494.16	494.25	499.15	494.24	495.84	497.48	502.83	500.28	500.24	500.28
24	495.63	494.35	494.20	494.20	497.67	493.98	496.09	497.63	502.69	500.28	500.24	500.52
25	495.36	494.36	494.24	494.22	496.79	493.95	496.30	497.80	502.49	500.24	500.24	500.55
26	495.16	494.38	494.27	494.27	497.72	494.04	496.53	498.20	502.24	500.21	500.23	500.32
27	495.03	494.40	494.29	494.31	500.88	494.28	496.79	498.49	502.50	500.21	500.22	500.23
28	494.85	494.41	494.28	494.37	501.80	494.47	496.97	498.71	502.57	500.33	500.22	500.23
29	494.75	494.40	494.26	494.42	500.68	494.49	497.15	498.91	502.44	500.51	500.20	500.23
30	494.67	494.33	494.25	494.45	---	494.42	497.34	499.11	501.91	500.63	500.18	500.23
31	494.60	---	494.25	494.47	---	494.31	---	499.26	---	500.61	500.17	---
MEAN	497.43	494.32	494.70	494.37	496.37	494.78	495.02	498.51	501.15	500.37	500.23	500.24
MAX	500.00	494.61	497.23	494.79	501.80	499.32	497.34	500.04	502.84	501.56	500.39	500.55
MIN	494.60	494.14	494.15	494.05	494.24	493.95	494.09	496.87	499.40	500.04	500.17	500.16
(-)	22900	22500	22300	22700	34100	22400	27600	31300	36700	34000	33100	33200
(=)	-10100	-400	-200	+400	+11400	-11700	+5200	+3700	+5400	-2700	-900	+100

CAL YR 1999.... 0
WTR YR 2000....+200

(-) 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.--No estimated daily discharges. Records good. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	442	575	523	605	562	3180	1100	381	322	1360	392	307
2	482	578	531	604	613	3250	1050	378	316	1220	645	294
3	608	583	546	1410	657	3200	1030	373	441	1290	638	283
4	636	660	547	2010	643	2780	975	364	565	1260	538	276
5	647	642	512	1110	589	1970	900	353	378	886	424	271
6	653	536	478	1050	576	1780	879	347	330	774	453	268
7	630	508	512	1070	572	1750	867	339	314	1020	459	269
8	640	499	720	1080	567	1750	882	333	297	1130	455	268
9	636	515	760	985	565	1480	801	328	289	873	450	269
10	588	581	980	958	566	1190	767	324	285	801	445	267
11	571	539	888	941	564	1120	756	318	287	752	422	261
12	564	484	939	932	582	1100	748	315	283	664	358	264
13	562	472	1050	920	662	1060	728	312	277	538	343	301
14	558	467	1130	880	911	978	719	306	276	488	335	336
15	555	462	1830	609	702	851	689	300	308	526	330	302
16	582	466	2060	673	659	857	618	295	655	491	327	264
17	670	493	1720	677	811	889	602	287	1890	472	323	254
18	681	497	1210	676	3660	868	575	613	4490	458	314	250
19	692	499	1030	666	3850	974	561	1230	4570	419	313	248
20	741	500	975	660	1960	1360	548	1340	2060	418	309	246
21	752	503	924	655	1250	1260	516	1010	1500	436	307	245
22	756	500	845	658	1020	1290	508	445	1410	403	306	246
23	756	505	786	653	1340	1440	490	324	1190	391	316	267
24	754	506	757	641	2360	1530	475	316	1310	377	325	305
25	753	500	697	633	2470	1410	463	531	1260	377	327	331
26	726	500	672	608	2430	1240	437	458	1200	405	322	358
27	671	500	659	559	3670	1110	420	1030	1570	396	321	541
28	633	499	650	553	2340	909	407	871	1240	346	318	468
29	627	496	645	563	2170	966	396	482	1020	390	315	354
30	586	499	640	557	---	1120	388	376	1060	372	312	324
31	568	---	628	551	---	1160	---	339	---	338	310	---
MEAN	636	519	866	811	1356	1478	676	484	1046	647	379	298
MAX	756	660	2060	2010	3850	3250	1100	1340	4570	1360	645	541
MIN	442	462	478	551	562	851	388	287	276	338	306	245
IN.	.59	.47	.80	.75	1.17	1.37	.61	.45	.94	.60	.35	.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000[a], BY WATER YEAR (WY)

MEAN	663	992	1535	1686	1750	2137	2216	1928	1293	863	687	649
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	484	460	321	288	268
(WY)	1957	1954	1954	1956	1963	1981	2000	2000	1987	1954	1954	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1949 - 2000[a]	
ANNUAL MEAN	1436		765		1365	
HIGHEST ANNUAL MEAN					2858	1985
LOWEST ANNUAL MEAN					564	1954
HIGHEST DAILY MEAN	7160	Jan 22	4570	Jun 19	41200	Dec 4 1982
LOWEST DAILY MEAN	391	Sep 17	245	Sep 21	186	Sep 25 1966
ANNUAL SEVEN-DAY MINIMUM	410	Aug 26	250	Sep 16	245	Sep 21 1966
INSTANTANEOUS PEAK FLOW	---		5510	Jun 19	65600	Dec 4 1982
INSTANTANEOUS PEAK STAGE	---		13.01	Jun 19	21.68[b]	Dec 4 1982
INSTANTANEOUS LOW FLOW	---		245	Sep 19-22	180	Sep 25 1966
ANNUAL RUNOFF (INCHES)	15.66		8.36		14.89	
10 PERCENT EXCEEDS	3660		1340		3270	
50 PERCENT EXCEEDS	741		577		842	
90 PERCENT EXCEEDS	461		308		386	

[a]Post-regulation period.
[b]Former datum.

370857091265901 JACKS FORK ABOVE ALLEY SPRING, MO
(Jacks Fork water-quality monitoring network)

WATER-QUALITY RECORDS

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)
NOV									
08...	1400	48	10.7	108	7.2	346	16.8	<1	<1
DEC									
14...	1315	233	10.4	89	8.0	337	8.8	24	23
JAN									
18...	1415	62	12.8	105	8.1	328	7.7	K11	K10
FEB									
29...	1415	359	10.9	97	7.8	246	10.9	K16	29
APR									
04...	1445	117	10.7	102	7.9	301	14.3	K1	K2
MAY									
10...	1400	52	10.3	116	8.0	329	21.7	K1	<1
23...	1330	42	10.4	125	8.1	337	24.7	K2	K7
25...	1430	129	9.2	111	8.4	315	25.5	K12	K7
JUN									
06...	1415	73	10.2	121	7.9	298	23.7	<1	K1
28...	1615	123	8.5	96	7.8	304	22.1	K9	K13
JUL									
10...	1400	50	8.9	116	8.2	321	29.5	K4	K18
28...	1245	44	8.8	108	8.2	336	26.7	K10	K7
AUG									
11...	1230	36	7.6	95	8.1	337	27.8	K1	24
22...	1500	33	6.7	86	8.1	336	29.4	K1	K2
SEP									
20...	0950	25	8.0	90	8.1	345	21.2	33	29

DATE	ENTERO-COCCI ME,MF WATER TOTAL (col / 100 mL) (31649)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)
NOV								
08...	--	K11	<.020	E.10	<.050	<.010	<.010	<.008
DEC								
14...	--	67	<.020	E.10	.318	<.010	<.010	<.008
JAN								
18...	--	K5	<.020	<.10	.257	<.010	<.010	<.008
FEB								
29...	--	31	<.020	.11	.681	<.010	<.010	<.008
APR								
04...	K3	<1	<.020	E.10	.221	<.010	<.010	<.008
MAY								
10...	K10	20	<.020	E.10	.161	<.010	<.010	<.008
23...	K8	K14	<.020	E.10	.104	<.010	<.010	<.008
25...	K28	88	<.020	.12	.124	<.010	<.010	E.005
JUN								
06...	K6	K17	<.020	.14	.087	<.010	<.010	<.008
28...	31	53	<.020	E.10	.105	<.010	<.010	<.008
JUL								
10...	32	48	<.020	<.10	.145	<.010	<.010	<.008
28...	46	K180	<.020	E.10	.087	<.010	<.010	<.008
AUG								
11...	K16	72	<.020	E.10	.090	<.010	<.010	<.008
22...	K18	59	<.020	E.10	.077	<.010	<.010	<.008
SEP								
20...	45	54	<.020	E.10	.060	<.010	<.010	<.008

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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 pier 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.--Estimated daily discharges: Dec. 11-17. Records fair. 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	40	53	47	53	48	287	137	55	129	92	88	28
2	40	57	47	52	47	244	132	54	105	82	73	27
3	40	56	52	71	47	228	127	54	89	75	62	26
4	40	54	58	109	47	225	124	53	78	68	55	25
5	40	52	70	132	47	225	125	54	75	84	49	24
6	40	50	68	125	47	222	120	58	67	82	46	27
7	40	49	70	119	48	216	113	56	60	72	44	28
8	48	49	70	114	49	209	106	56	54	62	43	28
9	57	49	70	108	50	201	96	54	49	56	39	31
10	75	49	80	102	50	194	89	51	47	51	38	32
11	74	48	120	96	50	192	89	50	49	49	35	30
12	65	47	260	90	51	186	86	51	48	48	35	32
13	58	47	300	83	52	182	82	55	44	53	37	32
14	53	47	240	77	52	178	78	49	45	72	37	30
15	52	47	160	73	52	180	76	45	49	62	37	28
16	52	47	130	69	51	178	78	45	52	53	36	26
17	55	46	115	65	144	172	76	44	89	49	32	25
18	57	46	114	62	1660	165	76	44	128	49	36	24
19	59	46	102	62	923	171	75	43	133	48	38	24
20	56	46	94	59	485	182	73	42	114	58	37	23
21	55	46	87	57	331	189	70	41	158	89	35	23
22	52	47	80	56	268	178	67	41	276	110	33	22
23	52	50	74	56	243	170	67	41	257	88	35	23
24	51	52	70	56	232	164	67	42	188	72	42	40
25	50	53	66	55	223	159	68	120	147	60	37	54
26	49	53	63	53	274	153	65	495	134	53	38	56
27	49	52	60	51	776	145	61	790	153	49	41	49
28	50	50	59	51	540	139	59	404	135	46	35	44
29	49	48	57	52	363	139	57	287	116	77	32	39
30	48	47	56	51	---	137	56	211	103	90	30	36
31	49	---	54	50	---	139	---	163	---	102	29	---
MEAN	51.5	49.4	96.5	74.5	250	185	86.5	118	106	67.8	41.4	31.2
MAX	75	57	300	132	1660	287	137	790	276	110	88	56
MIN	40	46	47	50	47	137	56	41	44	46	29	22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2000, BY WATER YEAR (WY)

MEAN	137	386	204	224	423	461	521	425	192	110	90.7	213
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	51.5	49.4	91.3	74.5	81.6	185	86.5	118	106	67.8	41.4	31.2
(WY)	2000	2000	1998	2000	1996	2000	2000	2000	2000	2000	2000	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1993 - 2000	
ANNUAL MEAN	249		95.9		274	
HIGHEST ANNUAL MEAN					469	1994
LOWEST ANNUAL MEAN					95.9	2000
HIGHEST DAILY MEAN	17500	Feb 7	1660	Feb 18	23300	Nov 14 1993
LOWEST DAILY MEAN	39	Sep 7	22	Sep 22	22	Sep 22 2000
ANNUAL SEVEN-DAY MINIMUM	40	Sep 29	23	Sep 17	23	Sep 17 2000
INSTANTANEOUS PEAK FLOW	---		2420	Feb 18	48700	Nov 14 1993
INSTANTANEOUS PEAK STAGE	---		5.73	Feb 18	21.97[a]	Nov 14 1993
INSTANTANEOUS LOW FLOW	---		22	Sep 22,23	22	Sep 22 2000
10 PERCENT EXCEEDS	410		183		512	
50 PERCENT EXCEEDS	103		56		135	
90 PERCENT EXCEEDS	46		37		57	

[a]Former datum.

3709010912620001 ALLEY SPRING BELOW ALLEY, MO
(Jacks Fork water-quality monitoring network)

WATER-QUALITY RECORDS

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)
NOV									
08...	1530	89	10.0	95	7.8	319	14.3	K6	K6
DEC									
14...	1445	94	9.1	87	7.8	322	14.0	K8	K14
JAN									
18...	1645	85	9.8	93	7.7	311	13.8	K12	K7
FEB									
29...	1615	173	9.6	92	7.7	244	13.8	56	92
APR									
04...	1530	87	10.3	98	7.6	269	14.3	K2	K2
MAY									
10...	1530	77	10.7	104	7.7	296	14.7	K7	K7
23...	1420	80	11.2	111	7.7	306	15.1	K6	K6
25...	1500	85	10.3	101	7.9	310	14.9	<2	K18
JUN									
06...	1540	75	10.7	106	7.5	307	14.8	23	37
28...	1710	99	9.6	92	7.6	292	14.1	24	28
JUL									
10...	1500	82	11.3	111	7.7	290	15.1	46	55
28...	1150	76	11.3	110	7.8	313	14.8	K12	K2
AUG									
11...	1345	73	11.3	111	7.8	309	15.3	K2	K8
22...	1415	73	10.4	102	7.8	315	15.3	K2	K7
SEP									
20...	0850	74	10.1	99	7.7	316	14.6	K9	K6

DATE	ENTERO-COCCI ME,MF WATER TOTAL (col / 100 mL) (31649)	STREP-TOCOCCI FECAL, KF AGAR (col PER 100 mL) (31673)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)
NOV								
08...	--	K11	<.020	E.10	.634	<.010	<.010	.010
DEC								
14...	--	K4	<.020	<.10	.594	<.010	<.010	.009
JAN								
18...	--	37	<.020	<.10	.671	<.010	<.010	.009
FEB								
29...	--	48	<.020	E.10	.770	<.010	.011	.011
APR								
04...	K6	K5	<.020	<.10	.728	<.010	<.010	E.006
MAY								
10...	40	38	<.020	<.10	.603	<.010	<.010	E.006
23...	K10	48	<.020	<.10	.585	<.010	<.010	.009
25...	K44	44	<.020	<.10	.586	<.010	<.010	.010
JUN								
06...	70	78	<.020	E.10	.589	<.010	.012	.011
28...	36	58	<.020	E.10	.571	<.010	<.010	.008
JUL								
10...	52	84	<.020	<.10	.646	<.010	<.010	.009
28...	36	50	<.020	<.10	.560	<.010	<.010	.009
AUG								
11...	37	42	<.020	<.10	.555	<.010	<.010	.009
22...	27	50	<.020	E.10	.548	<.010	<.010	E.007
SEP								
20...	K14	40	<.020	<.10	.577	<.010	<.010	.012

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

370911091223201 MAHANS CREEK ABOVE EMINENCE, MO
(Jacks Fork water-quality monitoring network)

WATER-QUALITY RECORDS

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)
NOV									
09...	0915	5.0	9.7	89	7.9	435	12.7	K15	K16
DEC									
14...	1545	16	10.0	88	8.1	398	10.4	40	K32
JAN									
19...	0900	8.5	11.9	97	8.0	410	7.1	23	27
FEB									
29...	1715	58	10.3	93	8.1	319	11.4	260	440
APR									
04...	1645	19	9.7	95	8.0	361	15.5	97	76
MAY									
10...	1630	7.4	9.2	102	8.1	395	20.9	K12	K29
23...	1530	5.7	9.4	112	8.1	411	24.3	83	120
JUN									
06...	1640	11	9.7	110	8.2	328	21.6	48	64
28...	1820	24	9.0	94	8.1	381	18.3	270	200
JUL									
10...	1550	12	9.4	115	8.2	388	25.9	K31	140
28...	1100	6.1	9.5	107	8.1	428	21.9	110	210
AUG									
11...	1115	5.4	7.9	91	8.1	432	23.2	48	K180
22...	1330	4.2	8.4	102	8.1	440	25.9	K20	74
SEP									
20...	1030	2.8	8.9	97	8.1	458	19.6	240	120

DATE	ENTERO-COCCI ME,MF WATER TOTAL (col / 100 mL) (31649)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)
NOV								
09...	--	58	<.020	E.10	.182	<.010	<.010	<.008
DEC								
14...	--	120	<.020	E.10	.165	<.010	<.010	<.008
JAN								
19...	--	24	<.020	<.10	.265	<.010	<.010	<.008
FEB								
29...	--	80	--	--	--	--	--	--
APR								
04...	98	100	--	--	--	--	--	--
MAY								
10...	100	120	--	--	--	--	--	--
23...	130	220	--	--	--	--	--	--
JUN								
06...	86	94	--	--	--	--	--	--
28...	180	310	<.020	E.10	.170	<.010	<.010	<.008
JUL								
10...	160	220	<.020	E.10	.264	<.010	<.010	E.006
28...	290	290	<.020	.14	.197	<.010	<.010	E.004
AUG								
11...	170	150	<.020	E.10	.249	<.010	<.010	E.005
22...	460	430	<.020	.13	.192	<.010	<.010	<.008
SEP								
20...	50	180	<.020	<.10	.240	<.010	<.010	E.005

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

370928091220801 STORYS CREEK ABOVE EMINENCE, MO
(Jacks Fork water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°09'28", long 91°22'08", in NE $^1/_4$ SW $^1/_4$ NE $^1/_4$ sec.27, T.29 N., R.4 W., Shannon County, Hydrologic Unit 11010008, across from Circle G Campground and 0.9 mi upstream of Eminence.

DRAINAGE AREA.--5.34 mi^2.

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)
NOV									
09...	1015	.62	10.2	92	8.2	511	11.9	K330	K540
DEC									
14...	1630	2.7	10.1	86	8.4	406	8.8	680	580
JAN									
19...	1030	.76	13.4	105	8.4	483	5.7	46	54
MAR									
01...	1015	4.6	11.7	102	8.0	367	10.2	44	76
APR									
04...	1730	1.2	9.7	96	8.5	427	15.7	K20	K27
MAY									
10...	1740	.52	8.0	91	8.3	455	22.2	K16	50
23...	1615	.42	8.2	101	8.3	466	26.2	K31	42
JUN									
06...	1725	.62	7.8	92	8.3	433	23.6	310	380
28...	1900	1.2	8.8	95	8.2	451	19.9	82	94
JUL									
10...	1640	.30	6.9	88	8.2	454	28.4	320	K1500

DATE	ENTERO-COCCI ME,MF WATER TOTAL (col / 100 mL) (31649)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)
NOV								
09...	--	230	<.020	.14	.148	<.010	<.010	E.005
DEC								
14...	--	160	<.020	E.10	.204	<.010	<.010	E.004
JAN								
19...	--	48	<.020	E.10	.186	<.010	<.010	<.008
MAR								
01...	--	60	--	--	--	--	--	--
APR								
04...	K24	K30	--	--	--	--	--	--
MAY								
10...	410	360	--	--	--	--	--	--
23...	K670	K680	--	--	--	--	--	--
JUN								
06...	570	580	--	--	--	--	--	--
28...	540	630	<.020	.12	.151	<.010	<.010	E.004
JUL								
10...	K1200	K1200	<.020	.19	.278	<.010	<.010	.017

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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 wingwall of State Highway 19 bridge, 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.--No estimated daily discharges. Water-discharge records fair. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145	148	147	230	171	548	278	159	239	213	182	115
2	143	147	150	229	171	460	274	158	213	200	168	114
3	143	147	153	236	171	411	267	158	196	191	157	113
4	144	148	159	247	170	393	244	157	184	185	150	111
5	143	148	157	263	171	384	237	157	181	183	145	109
6	141	149	150	231	172	363	232	160	173	177	139	111
7	141	148	150	224	174	336	228	159	166	173	136	114
8	145	150	146	221	173	321	221	156	159	169	135	114
9	145	147	151	219	173	318	210	154	154	165	132	117
10	147	148	158	211	173	309	202	152	152	161	129	119
11	148	147	160	202	174	305	201	150	153	151	126	116
12	145	148	238	197	174	296	197	152	152	150	125	118
13	144	148	408	192	174	288	193	157	148	152	126	118
14	143	147	393	189	174	286	189	148	150	166	124	116
15	144	147	297	189	174	284	188	145	154	161	121	114
16	144	147	280	188	174	285	190	143	154	154	120	112
17	143	148	270	186	358	277	188	142	202	149	118	111
18	146	147	267	183	2000	276	185	141	251	150	125	110
19	145	147	264	178	1240	288	181	141	253	148	123	107
20	145	149	259	176	740	318	182	141	239	160	122	106
21	145	149	254	176	560	338	179	140	327	181	120	107
22	144	148	252	174	453	308	175	139	434	207	118	107
23	145	149	247	173	376	291	174	138	410	183	121	107
24	147	147	246	173	326	290	176	140	321	168	139	138
25	145	148	244	172	310	286	173	235	273	159	131	148
26	146	148	241	173	524	279	170	642	253	152	126	144
27	147	149	239	171	1080	282	168	1160	304	148	134	135
28	147	146	240	171	840	279	165	604	276	145	126	129
29	146	149	239	172	648	274	163	429	248	195	120	125
30	148	147	238	171	---	274	161	330	228	196	118	121
31	147	---	234	171	---	275	---	275	---	194	116	---
MEAN	145	148	227	196	421	320	200	234	225	171	131	118
MAX	148	150	408	263	2000	548	278	1160	434	213	182	148
MIN	141	146	146	171	170	274	161	138	148	145	116	106
IN.	.42	.41	.66	.57	1.14	.93	.56	.68	.63	.49	.38	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2000, BY WATER YEAR (WY)

MEAN	229	418	453	475	560	718	847	734	465	259	208	209
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1922 - 2000	
ANNUAL MEAN	457		211		463	
HIGHEST ANNUAL MEAN					1072	1985
LOWEST ANNUAL MEAN					154	1954
HIGHEST DAILY MEAN	11100	Feb 7	2000	Feb 18	31800	Nov 15 1993
LOWEST DAILY MEAN	136	Sep 30	106	Sep 20	67	Sep 16 1956
ANNUAL SEVEN-DAY MINIMUM	138	Sep 24	108	Sep 17	70	Sep 16 1956
INSTANTANEOUS PEAK FLOW	---		2860	Feb 18	58500	Nov 15 1993
INSTANTANEOUS PEAK STAGE	---		5.98	Feb 18	17.82	Nov 15 1993
INSTANTANEOUS LOW FLOW	---		105	Sep 19-23	64	Aug 28 1936
ANNUAL RUNOFF (INCHES)	15.58		7.20		15.81	
10 PERCENT EXCEEDS	855		308		898	
50 PERCENT EXCEEDS	245		166		246	
90 PERCENT EXCEEDS	145		125		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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)
NOV									
08...	1645	154	11.8	117	8.3	331	16.1	<1	K6
09...	1115	154	10.4	97	8.1	336	13.4	K4	K5
DEC									
15...	0845	305	9.5	81	8.0	338	9.0	56	80
JAN									
19...	1200	170	11.9	102	8.2	327	9.1	K14	K11
MAR									
01...	1145	542	11.2	101	7.9	263	11.9	K15	K17
APR									
05...	0900	241	9.6	85	7.8	301	10.5	K15	27
MAY									
11...	0915	149	8.5	87	7.9	326	16.6	K21	36
12...	0900	150	9.2	111	8.0	326	17.9	K18	35
24...	0915	130	7.9	83	7.8	331	18.0	K10	30
24...	1615	136	11.4	131	--	320	22.7	<1	K2
25...	1400	235	10.5	118	8.4	315	21.7	40	120
JUN									
07...	0930	172	8.2	83	8.5	317	15.9	27	28
29...	0940	245	9.4	97	8.1	316	17.9	K12	K68
JUL									
11...	0945	160	8.1	89	7.9	321	20.6	21	33
27...	1510	143	10.2	117	8.2	326	22.8	<1	K2
AUG									
10...	1745	129	9.3	110	8.3	330	24.7	K13	K25
22...	1055	127	8.3	91	8.0	336	20.2	<1	K12
SEP									
19...	1520	113	11.7	125	8.3	329	19.1	K2	K4

DATE	ENTERO-COCCI ME,MF WATER TOTAL (col / 100 mL) (31649)	STREP-TOCOCCI FECAL, KF AGAR (col PER 100 mL) (31673)	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 mgG/L as N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)
NOV								
08...	--	K11	<.020	E.10	.300	<.010	<.010	E.006
09...	--	K4	--	--	--	--	--	--
DEC								
15...	--	99	<.020	E.10	.401	<.010	<.010	<.008
JAN								
19...	--	K15	<.020	<.10	.410	<.010	<.010	<.008
MAR								
01...	--	K35	<.020	E.10	.662	<.010	<.010	E.004
APR								
05...	K12	25	<.020	E.10	.408	<.010	<.010	<.008
MAY								
11...	88	62	<.020	<.10	.378	<.010	<.010	<.008
12...	150	62	--	--	--	--	--	--
24...	57	110	<.020	<.10	.349	<.010	<.010	E.005
24...	K10	23	--	--	--	--	--	--
25...	K20	140	<.020	E.10	.272	<.010	<.010	.010
JUN								
07...	31	59	<.020	.12	.293	<.010	<.010	<.008
29...	25	35	<.020	E.10	.271	<.010	<.010	<.008
JUL								
11...	59	74	<.020	<.10	.367	<.010	<.010	E.004
27...	29	230	<.020	.13	.273	<.010	<.010	E.004
AUG								
10...	64	92	<.020	E.10	.276	<.010	<.010	E.005
22...	23	40	<.020	.11	.299	<.010	<.010	<.008
SEP								
19...	<1	K5	<.020	E.10	.310	<.010	<.010	<.008

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

370907091210801 JACKS FORK BELOW WASTEWATER TREATMENT PLANT BELOW EMINENCE, MO
(Jacks Fork water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°09'07", long 91°21'08", in SW $^1/_4$ NW $^1/_4$ SE $^1/_4$ sec.26, T.29 N., R.4 W., Shannon County, Hydrologic Unit 11010008, at Jacks Fork Campground, 0.4 mi downstream of Eminence.

DRAINAGE AREA.--405 mi^2.

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)
NOV								
09...	1330	11.0	106	8.0	333	14.8	K1	K2
DEC								
15...	0950	11.0	93	8.1	338	8.9	40	32
JAN								
19...	1445	12.4	107	8.4	324	9.4	K5	K4
MAR								
01...	1500	11.1	104	8.0	265	13.4	K16	K11
APR								
05...	1015	10.1	91	7.9	301	11.2	K9	23
MAY								
11...	1015	9.2	95	8.1	328	17.4	30	54
24...	1000	8.6	91	8.0	331	18.5	K6	K14
JUN								
07...	1025	8.7	91	8.2	316	17.5	21	K20
29...	1030	9.9	104	8.1	317	18.5	24	K18
JUL								
11...	1025	8.6	96	7.9	325	21.3	K17	48
27...	1450	10.2	117	8.2	327	22.7	K19	31
AUG								
10...	1720	9.5	114	8.2	331	25.3	180	200
21...	1455	10.4	117	8.2	334	22.2	24	K91
SEP								
19...	1430	11.6	123	8.3	330	18.9	K5	K6

DATE	ENTEROCOCCI ME,MF WATER TOTAL (col / 100 mL) (31649)	STREPTOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	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)	PHOSPHORUS TOTAL (mg/L as P) (00665)
NOV								
09...	--	K5	<.020	E.10	.379	<.010	<.010	E.006
DEC								
15...	--	100	<.020	E.10	.407	<.010	<.010	<.008
JAN								
19...	--	K14	<.020	<.10	.399	<.010	<.010	<.008
MAR								
01...	--	K32	<.020	E.10	.667	<.010	<.010	E.005
APR								
05...	K16	K11	<.020	E.10	.416	<.010	.016	<.008
MAY								
11...	80	72	<.020	<.10	.451	<.010	<.010	.009
24...	28	57	<.020	E.10	.364	<.010	<.010	.008
JUN								
07...	33	57	<.020	.20	.358	<.010	.011	.015
29...	K14	22	<.020	E.10	.289	<.010	<.010	E.005
JUL								
11...	45	60	<.020	<.10	.441	<.010	.013	.020
27...	20	300	<.020	E.10	.358	<.010	.012	.016
AUG								
10...	120	280	.021	E.10	.316	<.010	.012	.018
21...	32	K21	<.020	.10	.369	<.010	.013	.018
SEP								
19...	K5	K12	<.020	E.10	.375	<.010	<.010	.011

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

370905091204001 JACKS FORK ABOVE 2ND UNNAMED HOLLOW (SOUTH) BELOW EMINENCE, MO
(Jacks Fork water-quality monitoring network)

WATER-QUALITY RECORDS

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)
NOV									
09...	1410	154	11.5	112	8.1	338	15.0	K2	K6
DEC									
15...	1040	299	11.1	94	8.1	338	9.0	41	40
JAN									
19...	1600	172	12.4	107	8.4	325	9.4	220	180
MAR									
01...	1600	547	11.3	106	8.0	265	13.6	K21	K17
APR									
05...	1100	240	10.0	91	8.1	301	11.6	K6	K10
MAY									
11...	1045	142	9.3	97	8.2	327	17.6	K12	41
24...	1050	129	9.1	98	8.1	332	19.0	<1	K10
JUN									
07...	1055	177	8.9	94	8.2	318	18.1	43	56
29...	1100	244	10.2	108	8.2	318	18.9	K13	K13
JUL									
11...	1100	155	9.0	101	8.0	323	21.9	K6	48
27...	1345	144	9.9	113	8.1	330	22.5	K7	K14
AUG									
10...	1615	128	9.1	107	8.2	332	24.2	180	210
21...	1515	124	10.3	118	8.3	330	22.9	K1	K17
SEP									
19...	1415	109	11.8	125	8.3	332	19.0	K6	K4

DATE	ENTERO-COCCI ME,MF WATER TOTAL (col / 100 mL) (31649)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)
NOV								
09...	--	K3	<.020	E.10	.324	<.010	<.010	<.008
DEC								
15...	--	70	<.020	.15	.406	<.010	<.010	<.008
JAN								
19...	--	34	<.020	E.10	.395	<.010	<.010	<.008
MAR								
01...	--	K33	<.020	E.10	.662	<.010	<.010	E.006
APR								
05...	K13	K14	<.020	E.10	.413	<.010	<.010	<.008
MAY								
11...	61	57	<.020	<.10	.396	<.010	<.010	E.005
24...	K18	36	<.020	E.10	.344	<.010	<.010	E.007
JUN								
07...	K18	77	<.020	.19	.312	<.010	<.010	E.007
29...	K12	K14	<.020	E.10	.273	<.010	<.010	<.008
JUL								
11...	69	110	<.020	<.10	.370	<.010	<.010	.009
27...	K18	22	<.020	.16	.305	<.010	<.010	E.007
AUG								
10...	150	700	<.020	E.10	.223	<.010	<.010	E.006
21...	K10	K8	<.020	.13	.299	<.010	<.010	E.007
SEP								
19...	K5	K8	<.020	<.10	.335	<.010	<.010	<.008

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

371014091201301 JACKS FORK ABOVE LICK LOG HOLLOW BELOW EMINENCE, MO
(Jacks Fork water-quality monitoring network)

WATER-QUALITY RECORDS

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)
NOV									
09...	1645	151	11.1	109	8.2	338	15.3	K7	K7
DEC									
15...	1215	298	11.9	101	8.2	335	8.9	30	52
JAN									
19...	1700	173	11.8	101	8.4	326	9.1	100	130
MAR									
01...	1715	524	11.4	107	8.3	267	13.5	K19	K20
APR									
05...	1415	234	10.6	103	8.0	300	14.4	<1	<1
MAY									
11...	1505	138	12.0	132	8.3	325	20.2	110	K340
12...	0830	--	8.9	96	7.8	328	19.0	42	50
24...	1345	133	10.7	121	8.3	331	21.8	22	25
25...	1250	221	9.7	108	8.4	318	21.1	46	K130
JUN									
07...	1405	168	9.5	104	8.3	316	19.2	80	K240
29...	1550	265	10.4	118	8.3	318	22.5	K6	20
JUL									
11...	1320	144	9.8	116	8.2	324	24.4	K4	20
27...	1120	143	9.3	104	8.1	332	21.5	K6	K10
AUG									
10...	1245	127	8.7	102	8.2	338	24.2	84	340
22...	0915	122	7.4	83	8.1	340	21.5	K18	80
SEP									
20...	1230	105	10.9	119	8.4	338	19.8	29	K17

DATE	ENTERO-COCCI ME,MF WATER TOTAL (col / 100 mL) (31649)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)
NOV								
09...	--	K12	<.020	E.10	.302	<.010	<.010	E.004
DEC								
15...	--	81	<.020	.11	.401	<.010	<.010	<.008
JAN								
19...	--	K16	<.020	.38	.399	<.010	<.010	<.008
MAR								
01...	--	K31	<.020	E.10	.641	<.010	.014	E.006
APR								
05...	K1	K4	<.020	E.10	.400	<.010	<.010	<.008
MAY								
11...	K360	320	<.020	E.10	.358	<.010	<.010	E.006
12...	120	48	--	--	--	--	--	--
24...	K11	K17	<.020	E.10	.320	<.010	<.010	E.005
25...	120	190	<.020	E.10	.314	<.010	<.010	.008
JUN								
07...	K60	170	<.020	.21	.308	<.010	<.010	.010
29...	K10	28	<.020	E.10	.222	<.010	<.010	E.004
JUL								
11...	K8	75	<.020	E.10	.342	<.010	<.010	.008
27...	46	39	<.020	E.10	.294	<.010	<.010	E.006
AUG								
10...	240	260	<.020	.10	.310	<.010	<.010	.013
22...	84	130	<.020	.12	.295	<.010	<.010	E.004
SEP								
20...	K6	25	<.020	--	.312	<.010	<.010	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

371012091191301 JACKS FORK ABOVE BALD KNOB HOLLOW BELOW EMINENCE, MO
(Jacks Fork water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°10'12", long 91°19'13", in SW $^1/_4$ SE $^1/_4$ NW $^1/_4$ sec.19, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, 3.8 mi downstream of Eminence.

DRAINAGE AREA.--411 mi^2.

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)
NOV								
10...	1000	10.7	102	8.1	344	14.1	K10	28
DEC								
15...	1430	12.6	107	8.3	338	9.0	22	26
APR								
05...	1500	11.4	112	8.1	301	15.2	<1	K1
MAY								
11...	1615	12.5	139	8.5	325	20.8	K6	K67
24...	1430	--	--	8.4	333	--	K2	K5
JUN								
07...	1510	10.1	116	8.4	320	21.8	K12	K25
29...	1630	10.8	123	8.5	319	22.7	K10	21
JUL								
11...	1410	10.8	131	8.3	323	25.7	K3	K11
27...	1050	9.1	103	8.1	329	22.3	K13	K14
AUG								
10...	1200	9.1	108	8.3	338	24.6	K48	210
22...	0855	7.6	87	8.1	342	22.3	K15	38
SEP								
20...	1200	10.7	119	8.3	338	20.6	K18	21

DATE	ENTEROCOCCI ME,MF WATER TOTAL (col / 100 mL) (31649)	STREPTOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	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)	PHOSPHORUS TOTAL (mg/L as P) (00665)
NOV								
10...	--	21	<.020	.11	.317	<.010	<.010	<.008
DEC								
15...	--	58	<.020	<.10	.398	<.010	<.010	<.008
APR								
05...	K5	K4	<.020	.10	.386	<.010	<.010	<.008
MAY								
11...	62	46	<.020	E.10	.334	<.010	<.010	<.008
24...	K2	K12	<.020	.12	.284	<.010	<.010	E.005
JUN								
07...	K8	K27	.022	.18	.277	<.010	<.010	.008
29...	K16	K10	<.020	E.10	.208	<.010	<.010	E.004
JUL								
11...	44	110	<.020	E.10	.307	<.010	<.010	E.007
27...	62	100	<.020	E.10	.272	<.010	<.010	E.006
AUG								
10...	130	210	.020	E.10	.274	<.010	<.010	.009
22...	65	76	<.020	.11	.159	<.010	.011	E.005
SEP								
20...	K9	21	<.020	<.10	.268	<.010	<.010	<.008

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

371026091183301 JACKS FORK ABOVE POWELL SPRING ABOVE TWO RIVERS, MO
(Jacks Fork water-quality monitoring network)

WATER-QUALITY RECORDS

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)
NOV									
10...	0900	164	9.1	86	8.1	346	13.8	K15	40
DEC									
15...	1525	298	12.4	105	8.4	338	9.0	K21	33
JAN									
20...	1000	176	10.9	86	8.0	333	6.4	K16	50
MAR									
02...	0945	489	10.7	92	7.4	273	9.8	23	41
APR									
05...	1530	258	11.3	111	8.4	303	15.2	K2	K2
MAY									
11...	1650	144	12.0	134	8.5	326	20.9	<1	23
24...	1515	137	11.2	131	8.4	333	23.6	<1	K1
JUN									
07...	1540	191	9.9	113	8.3	320	21.8	K3	46
29...	1710	246	10.8	123	8.5	319	22.7	K6	K15
JUL									
11...	1455	155	10.9	133	8.4	324	26.1	K1	K6
27...	0940	147	8.1	91	8.1	334	22.0	24	30
AUG									
10...	1015	133	7.7	91	8.1	339	24.3	K20	100
22...	0820	125	6.7	77	7.9	343	22.5	32	49
SEP									
20...	1130	114	9.4	104	8.2	340	20.2	K15	K17

DATE	ENTERO-COCCI ME,MF WATER TOTAL (col / 100 mL) (31649)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)
NOV								
10...	--	24	<.020	E.10	.313	<.010	<.010	<.008
DEC								
15...	--	34	<.020	E.10	.407	<.010	<.010	<.008
JAN								
20...	--	K10	<.020	<.10	.421	<.010	<.010	<.008
MAR								
02...	--	44	<.020	E.10	.666	<.010	<.010	E.005
APR								
05...	K8	K6	<.020	E.10	.389	<.010	<.010	<.008
MAY								
11...	100	30	<.020	E.10	.317	<.010	<.010	<.008
24...	K3	K9	<.020	E.10	.277	<.010	<.010	E.005
JUN								
07...	K6	K16	<.020	.19	.262	<.010	<.010	.008
29...	K8	K13	<.020	E.10	.208	<.010	<.010	E.005
JUL								
11...	K14	28	<.020	E.10	.289	<.010	<.010	E.007
27...	38	55	<.020	.10	.265	<.010	<.010	E.006
AUG								
10...	31	K46	<.020	E.10	.265	<.010	<.010	E.006
22...	55	74	<.020	.11	.261	<.010	<.010	<.008
SEP								
20...	K9	23	<.020	<.10	.268	<.010	<.010	E.005

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

371019091180101 SHAWNEE CREEK ABOVE TWO RIVERS, MO
(Jacks Fork water-quality monitoring network)

WATER-QUALITY RECORDS

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)
NOV									
10...	1100	4.5	10.3	99	8.1	526	14.5	K4	K7
DEC									
16...	0900	11	11.5	91	8.1	447	6.2	40	58
JAN									
20...	1200	5.7	12.9	98	8.4	483	5.1	K3	K1
MAR									
02...	1100	18	11.6	98	8.2	379	9.2	K13	K18
APR									
06...	0845	7.4	9.7	89	7.9	459	12.3	K4	K12
MAY									
12...	1015	4.4	8.8	96	8.1	501	19.6	84	120
25...	0915	24	6.6	72	8.1	338	20.1	K4200	>600
JUN									
08...	0940	6.2	8.9	94	8.0	458	17.9	K28	76
30...	1000	14	9.2	99	8.0	419	19.6	82	90
JUL									
12...	0930	5.4	6.0	70	8.2	475	24.2	50	72
26...	1625	3.9	8.7	102	8.2	477	23.9	50	71
AUG									
09...	1810	3.5	7.4	90	8.1	493	26.2	K76	160
21...	1400	3.4	8.4	98	8.2	504	24.0	K15	74
SEP									
19...	1315	2.3	9.4	102	8.2	510	19.9	K18	K12

DATE	ENTERO-COCCI ME,MF WATER TOTAL (col / 100 mL) (31649)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)
NOV								
10...	--	69	<.020	.36	.098	<.010	<.010	E.004
DEC								
16...	--	91	<.020	E.10	.587	<.010	<.010	<.008
JAN								
20...	--	K7	<.020	<.10	.348	<.010	<.010	<.008
MAR								
02...	--	28	--	--	--	--	--	--
APR								
06...	K14	K18	--	--	--	--	--	--
MAY								
12...	380	160	--	--	--	--	--	--
25...	>1000	>1000	--	--	--	--	--	--
JUN								
08...	170	220	--	--	--	--	--	--
30...	190	210	<.020	E.10	.196	<.010	<.010	E.007
JUL								
12...	K1000	K1500	<.020	E.10	.358	<.010	<.010	.014
26...	110	210	<.020	E.10	.204	<.010	.010	.009
AUG								
09...	120	220	<.020	<.10	.221	<.010	<.010	.008
21...	120	100	<.020	E.10	.234	<.010	<.010	E.006
SEP								
19...	K8	70	<.020	<.10	.190	<.010	<.010	E.006

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07066110 JACKS FORK ABOVE TWO RIVERS, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°10'22", long 91°18'00", in NE $^1/_4$ NW $^1/_4$ sec.20, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, at 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 ambient water-quality monitoring network station since November 1993.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
01...	1050	179	9.3	94	7.6	338	15.8	150	160	100	190
JAN											
18...	1030	170	10.7	92	7.9	350	9.1	35	K82	K22	185
MAR											
20...	1115	333	12.3	110	7.5	410	10.5	K18	44	25	145
MAY											
08...	1030	180	9.0	99	8.0	334	18.8	K4	K35	44	143
JUL											
17...	1415	170	8.3	96	7.8	364	23.2	120	100	28	181
SEP											
11...	1100	145	7.9	90	7.9	366	22.2	K7	21	K19	180

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
01...	192	235	0	190	38.2	22.1	.6	2.1	2.3	.1	3.2
JAN											
18...	190	232	0	--	--	--	--	--	--	--	--
MAR											
20...	146	178	0	--	--	--	--	--	--	--	--
MAY											
08...	147	177	0	180	36.4	22.4	.4	3.5	2.5	<.1	3.5
JUL											
17...	182	222	0	--	--	--	--	--	--	--	--
SEP											
11...	182	222	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

07066110 JACKS FORK ABOVE TWO RIVERS, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
NOV											
01...	<.020	.10	.304	<.010	<.050	<.010	<.050	<10	<1	222	<15
JAN											
18...	<.020	<.10	.461	<.010	<.050	<.010	E.035	--	--	--	--
MAR											
20...	<.020	E.10	.571	<.010	<.050	<.010	<.050	--	--	--	--
MAY											
08...	<.020	E.10	.351	<.010	<.050	<.010	<.050	<10	<10	189	<15
JUL											
17...	<.020	E.10	.304	<.010	<.050	<.010	<.050	--	--	--	--
SEP											
11...	<.020	E.10	.272	<.010	<.050	<.010	<.050	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
01...	E24	<8.0	E.1	<10	<10	<100	<1	3	<.3	E16	<31
MAY											
08...	<28	<8.0	<.1	<10	<10	<100	<1	7	<.3	<20	<31

E--Laboratory estimated value.

371020091174101 JACKS FORK ABOVE LITTLE SHAWNEE CREEK ABOVE TWO RIVERS, MO
(Jacks Fork water-quality monitoring network)

WATER-QUALITY RECORDS

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLIFORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)
NOV								
10...	1130	10.8	104	8.3	347	14.6	K10	K8
DEC								
16...	0945	12.3	100	8.2	329	7.6	28	40
JAN								
20...	1245	11.6	92	8.4	334	6.8	K2	K3
MAR								
02...	1215	11.4	99	8.2	284	10.5	K10	K16
APR								
06...	0915	9.6	91	8.1	321	13.7	45	56
MAY								
12...	1130	9.4	104	8.3	340	20.7	24	50
25...	0945	7.1	78	8.2	323	20.4	570	450
JUN								
08...	1115	10.0	109	8.3	326	19.4	K17	58
30...	1130	10.4	114	8.2	335	20.5	34	K69
JUL								
12...	1040	6.8	80	8.1	338	24.2	K18	59
26...	1640	9.5	113	8.4	332	24.9	K7	K20
AUG								
09...	1740	10.5	130	8.3	339	27.0	K20	96
21...	1340	10.1	117	8.2	340	23.4	K2	K10
SEP								
19...	1300	10.6	114	8.2	335	19.4	K6	K9

DATE	ENTEROCOCCI ME,MF WATER TOTAL (col / 100 mL) (31649)	STREPTOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	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)	PHOSPHORUS TOTAL (mg/L as P) (00665)
NOV								
10...	--	K17	<.020	.14	.298	<.010	<.010	<.008
DEC								
16...	--	58	<.020	<.10	.438	<.010	<.010	<.008
JAN								
20...	--	K5	<.020	<.10	.414	<.010	<.010	<.008
MAR								
02...	--	23	<.020	E.10	.651	<.010	<.010	E.005
APR								
06...	K18	K12	<.020	E.10	.394	<.010	<.010	<.008
MAY								
12...	K75	53	<.020	.10	.309	<.010	<.010	.010
25...	K3100	K4100	<.020	.20	.369	<.010	<.010	.013
JUN								
08...	38	50	<.020	.14	.268	<.010	<.010	E.006
30...	32	88	<.020	E.10	.213	<.010	<.010	E.005
JUL								
12...	160	280	<.020	<.10	.333	<.010	<.010	.008
26...	K7	50	<.020	E.10	.237	<.010	<.010	E.005
AUG								
09...	92	K40	.021	E.10	.249	<.010	<.010	E.007
21...	K15	K10	<.020	.10	.249	<.010	<.010	<.008
SEP								
19...	K5	K8	<.020	<.10	.256	<.010	<.010	E.005

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

371021091173201 LITTLE SHAWNEE CREEK ABOVE TWO RIVERS, MO
(Jacks Fork water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°10'21", long 91°17'32", in SW $^1/_4$ NE $^1/_4$ NE $^1/_4$ sec.20, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, 2.0 mi upstream from Two Rivers.

DRAINAGE AREA.--9.31 mi^2.

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)
DEC									
16...	1015	3.3	11.7	93	8.2	444	6.6	K32	64
JAN									
20...	1430	4.0	11.8	93	8.4	489	6.5	K10	K13
MAR									
02...	1345	6.4	10.9	95	8.2	414	10.5	K16	23
APR									
06...	1000	2.6	10.7	99	8.0	481	12.6	K15	K16
MAY									
12...	1100	.80	8.1	87	8.2	503	19.2	K15	K13
JUN									
08...	1040	.56	7.9	83	8.0	482	17.7	K2	K12
30...	1105	2.5	9.6	104	8.2	454	20.1	K17	21
JUL									
12...	1025	.56	5.3	57	7.8	503	19.5	74	66

DATE	ENTERO-COCCI ME,MF WATER TOTAL (col / 100 mL) (31649)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)
DEC								
16...	--	88	<.020	E.10	.431	<.010	<.010	<.008
JAN								
20...	--	24	<.020	<.10	.326	<.010	<.010	<.008
MAR								
02...	--	37	--	--	--	--	--	--
APR								
06...	25	23	--	--	--	--	--	--
MAY								
12...	140	130	--	--	--	--	--	--
JUN								
08...	86	120	--	--	--	--	--	--
30...	97	170	<.020	E.10	.171	<.010	<.010	<.008
JUL								
12...	210	660	<.020	<.10	.324	<.010	<.010	.008

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

371054091173501 JACKS FORK BELOW 3RD UNNAMED HOLLOW (NORTH) ABOVE TWO RIVERS, MO
(Jacks Fork water-quality monitoring network)

WATER-QUALITY RECORDS

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)
NOV									
10...	1315	169	11.4	111	8.2	353	15.3	K6	K9
DEC									
16...	1200	276	13.1	108	8.1	340	8.1	K9	K15
JAN									
20...	1600	184	11.6	93	8.6	340	7.2	K2	K1
MAR									
02...	1530	470	11.2	100	8.2	280	11.4	K5	K10
APR									
06...	1130	241	10.7	104	7.9	321	14.7	K5	22
MAY									
12...	1330	146	10.1	113	8.4	340	21.2	K10	35
25...	1040	225	7.6	84	8.2	328	20.8	640	490
JUN									
08...	1230	177	10.0	113	8.2	326	21.2	K2	36
30...	1330	250	11.0	122	8.2	332	21.4	K10	30
JUL									
12...	1230	171	7.8	93	8.2	336	24.9	<1	34
26...	1450	165	10.5	122	8.3	339	24.0	K5	K8
AUG									
09...	1615	132	10.5	129	8.4	344	26.4	44	82
21...	1220	128	9.1	103	8.2	350	22.6	K5	34
SEP									
19...	1145	113	8.7	92	8.2	346	18.9	K11	23

DATE	ENTERO-COCCI ME,MF WATER TOTAL (col / 100 mL) (31649)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P) (00671)	PHOS-PHORUS TOTAL (mg/L as P) (00665)
NOV								
10...	--	K18	<.020	E.10	.281	<.010	<.010	<.008
DEC								
16...	--	51	<.020	E.10	.423	<.010	<.010	<.008
JAN								
20...	--	K2	<.020	<.10	.401	<.010	<.010	<.008
MAR								
02...	--	22	<.020	E.10	.631	<.010	<.010	E.005
APR								
06...	K11	K11	<.020	E.10	.385	<.010	<.010	<.008
MAY								
12...	K60	48	<.020	E.10	.300	<.010	<.010	E.004
25...	K1900	K3900	<.020	.23	.351	<.010	<.010	.014
JUN								
08...	47	49	<.020	.22	.259	<.010	<.010	E.005
30...	28	36	<.020	.10	.202	<.010	.013	E.004
JUL								
12...	44	69	<.020	E.10	.318	<.010	<.010	.008
26...	K11	K19	<.020	E.10	.231	<.010	<.010	E.005
AUG								
09...	K37	K27	.021	.11	.320	<.010	.014	.014
21...	K20	K13	<.020	E.10	.256	<.010	<.010	<.008
SEP								
19...	K7	K12	<.020	<.10	.260	<.010	<.010	E.004

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.--No estimated daily discharges. Water-discharge records good. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	836	923	831	809	752	2340	1160	734	869	946	803	584
2	842	965	836	811	749	2010	1150	731	801	903	751	581
3	846	942	889	1030	747	1840	1130	730	755	849	717	586
4	844	910	983	1440	751	1750	1090	745	725	832	730	590
5	840	895	1070	1390	754	1660	1040	740	724	820	712	566
6	845	890	1080	1250	752	1560	1010	772	716	790	713	561
7	850	888	973	1100	752	1470	991	754	688	755	679	561
8	915	884	911	1030	748	1380	961	747	670	729	669	564
9	923	882	945	1000	751	1300	922	742	658	714	659	573
10	933	884	1450	974	756	1220	896	727	658	702	642	583
11	941	884	1550	938	757	1190	889	718	672	687	629	582
12	909	879	1850	908	762	1160	870	718	672	682	725	592
13	879	877	2160	879	773	1100	851	759	660	699	729	587
14	864	879	1920	850	767	1080	835	723	677	691	675	570
15	859	870	1590	832	767	1070	834	695	706	692	648	561
16	876	865	1330	829	763	1080	844	693	700	680	632	552
17	954	863	1190	820	1220	1050	843	695	867	665	617	548
18	917	858	1100	815	4110	1030	820	693	1320	669	624	549
19	895	863	1040	810	4140	1070	813	697	1100	670	641	547
20	882	863	999	800	2950	1210	805	698	1060	681	632	543
21	871	859	961	789	2320	1380	786	688	1300	703	629	541
22	873	874	932	791	1930	1370	778	693	1610	709	615	541
23	869	898	911	790	1650	1280	779	710	1470	719	603	548
24	866	921	888	781	1460	1220	786	693	1240	682	655	690
25	867	897	875	770	1320	1190	784	934	1090	658	722	746
26	865	883	861	766	2130	1140	763	1460	1140	642	676	697
27	869	875	849	755	3590	1150	753	2540	1650	629	655	650
28	871	867	840	767	3470	1160	745	2000	1240	623	656	622
29	869	854	837	772	2780	1180	743	1390	1090	741	633	599
30	874	839	831	765	---	1210	736	1120	990	945	608	589
31	877	---	817	757	---	1180	---	966	---	848	598	---
MEAN	878	884	1106	897	1558	1324	880	894	951	734	667	587
MAX	954	965	2160	1440	4140	2340	1160	2540	1650	946	803	746
MIN	836	839	817	755	747	1030	736	688	658	623	598	541
IN.	.61	.59	.77	.62	1.01	.92	.59	.62	.64	.51	.46	.39

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

MEAN	1104	1736	1922	2020	2256	2830	3433	3052	2137	1332	1100	1037
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	2066		945		1993	
HIGHEST ANNUAL MEAN					4811	1985
LOWEST ANNUAL MEAN					799	1954
HIGHEST DAILY MEAN	28400	Feb 8	4140	Feb 19	72000	Nov 15 1993
LOWEST DAILY MEAN	777	Sep 30	541	Sep 21,22	476	Oct 8 1956
ANNUAL SEVEN-DAY MINIMUM	808	Sep 24	545	Sep 17	479	Oct 6 1956
INSTANTANEOUS PEAK FLOW	---		4840	Feb 19	125000	Aug 21 1915
INSTANTANEOUS PEAK STAGE	---		5.42	Feb 19	27.39	Nov 15 1993
INSTANTANEOUS LOW FLOW	---		530	Sep 7,21,22	473	Oct 7 1956
ANNUAL RUNOFF (INCHES)	16.83		7.72		16.24	
10 PERCENT EXCEEDS	4030		1340		3740	
50 PERCENT EXCEEDS	1330		840		1260	
90 PERCENT EXCEEDS	853		631		700	

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. 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. Non-recording gage from March 1978 to September 1996.

REMARKS.--No estimated daily discharge. Water-discharge records fair.

EXTREMES FOR CURRENT YEAR.--For period Feb. 8 to Sept. 30, maximum daily discharge, 493 ft^3/s, June 22, minumum daily discharge, 286 ft^3/s, Sept. 21.

COOPERATION.--Gage height record furnished by the National Park Service.

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	---	---	---	---	---	447	389	356	398	386	344	323
2	---	---	---	---	---	435	400	353	393	380	342	322
3	---	---	---	---	---	427	398	350	388	374	337	320
4	---	---	---	---	---	421	387	347	383	371	339	317
5	---	---	---	---	---	412	398	343	377	367	341	313
6	---	---	---	---	---	403	394	341	371	363	340	323
7	---	---	---	---	---	397	396	339	374	353	337	321
8	---	---	---	---	328	391	375	335	371	352	340	322
9	---	---	---	---	334	380	380	329	368	357	340	322
10	---	---	---	---	332	375	394	319	370	357	340	319
11	---	---	---	---	322	364	392	328	369	355	338	317
12	---	---	---	---	334	359	383	324	368	354	338	313
13	---	---	---	---	337	365	398	302	367	355	336	311
14	---	---	---	---	329	365	398	296	366	354	335	310
15	---	---	---	---	335	363	398	297	367	354	333	296
16	---	---	---	---	327	353	394	310	362	354	333	299
17	---	---	---	---	347	344	381	315	355	351	334	307
18	---	---	---	---	588	359	385	314	486	355	322	310
19	---	---	---	---	623	362	388	310	478	350	326	308
20	---	---	---	---	474	354	376	310	467	348	334	299
21	---	---	---	---	424	346	363	312	470	351	333	286
22	---	---	---	---	402	349	372	314	493	351	333	304
23	---	---	---	---	388	365	380	312	470	350	331	304
24	---	---	---	---	374	368	370	305	451	347	328	304
25	---	---	---	---	364	364	360	325	433	343	328	295
26	---	---	---	---	422	371	360	382	423	341	327	293
27	---	---	---	---	560	372	367	441	422	342	328	296
28	---	---	---	---	543	359	360	447	412	342	329	296
29	---	---	---	---	491	355	360	430	405	345	326	293
30	---	---	---	---	---	367	353	418	395	348	325	292
31	---	---	---	---	---	372	---	407	---	346	324	---
MEAN	---	---	---	---	---	376	382	342	405	355	334	308
MAX	---	---	---	---	---	447	400	447	493	386	344	323
MIN	---	---	---	---	---	344	353	296	355	341	322	286
IN.	---	---	---	---	---	4.34	4.26	3.95	4.52	4.09	3.85	3.44

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

MEAN	346	391	417	443	464	520	578	562	486	417	378	353
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 PERIOD OF RECORD	
ANNUAL MEAN	447	
HIGHEST ANNUAL MEAN	648	1950
LOWEST ANNUAL MEAN	289	1936
HIGHEST DAILY MEAN	2000	Dec 3 1982
LOWEST DAILY MEAN	236	Oct 6 1956
ANNUAL SEVEN-DAY MINIMUM	238	Oct 1 1956
ANNUAL RUNOFF (INCHES)	60.73	
10 PERCENT EXCEEDS	690	
50 PERCENT EXCEEDS	396	
90 PERCENT EXCEEDS	291	

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 Scenic Riverways station from April 1975 to 1996, ambient water-quality monitoring network station since November 1993.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
DEC											
14...	0800	330	9.1	87	7.2	326	14.0	K1	K1	K2	180
MAR											
22...	1450	323	10.5	103	7.2	272	15.0	K5	K5	K11	146
MAY											
08...	1630	312	9.8	99	7.1	338	15.1	K3	K6	64	171
AUG											
09...	1500	302	7.4	73	7.2	333	14.8	K11	K15	K9	183

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
DEC											
14...	182	222	0	--	--	--	--	--	--	--	--
MAR											
22...	145	177	0	150	31.7	18.0	.5	1.9	4.4	.2	4.2
MAY											
08...	173	211	0	--	--	--	--	--	--	--	--
AUG											
09...	185	225	0	190	38.2	22.4	.4	2.0	2.2	<.1	1.9

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
DEC											
14...	<.020	<.10	.314	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
22...	<.020	E.10	.581	<.010	<.050	<.010	<.050	<10	1	164	38
MAY											
08...	<.020	<.10	.324	.014	<.050	<.010	<.050	--	--	--	--
AUG											
09...	<.020	<.10	.384	<.010	<.050	<.010	<.050	<10	<10	188	<15

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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)
MAR											
22...	49	<8.0	<.1	<10	20	<100	E1	<2	<.3	37	<31
AUG											
09...	E17	<8.0	<.1	<10	<10	<100	<1	<2	<.3	49	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.--No estimated daily discharges. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1230	1340	1230	1290	1250	3750	1940	1270	1760	1880	1310	1010
2	1230	1360	1230	1300	1240	3300	1930	1270	1630	1780	1260	994
3	1230	1380	1280	1760	1240	3070	1900	1280	1680	1700	1210	984
4	1230	1350	1380	2070	1230	2910	1850	1270	1530	1860	1270	985
5	1230	1320	1460	2140	1230	2760	1790	1280	1440	1670	1200	969
6	1230	1310	1520	2040	1230	2640	1740	1290	1400	1590	1190	958
7	1240	1300	1490	1860	1220	2510	1710	1290	1360	1520	1170	955
8	1370	1300	1400	1730	1220	2390	1670	1270	1320	1450	1140	956
9	1360	1300	1450	1660	1220	2280	1620	1260	1280	1400	1120	972
10	1390	1300	1800	1620	1220	2150	1570	1240	1260	1360	1110	985
11	1360	1290	2070	1570	1230	2080	1550	1220	1260	1320	1090	987
12	1360	1290	2290	1530	1270	2020	1520	1210	1250	1300	1080	998
13	1330	1280	2700	1490	1270	1940	1490	1220	1230	1280	1180	991
14	1300	1280	2660	1440	1270	1880	1470	1220	1220	1280	1140	976
15	1280	1280	2350	1410	1260	1840	1460	1190	1240	1260	1100	959
16	1280	1270	2030	1390	1250	1890	1470	1170	1240	1240	1070	944
17	1430	1270	1830	1380	1420	1850	1460	1170	1570	1220	1050	934
18	1380	1270	1690	1370	3840	1820	1440	1180	2730	1210	1050	930
19	1340	1270	1600	1350	5470	1860	1410	1190	2970	1210	1050	927
20	1320	1270	1540	1340	4500	1960	1400	1170	2380	1260	1060	922
21	1300	1260	1490	1320	3620	2080	1370	1160	2360	1250	1060	924
22	1290	1260	1450	1320	3090	2170	1360	1160	2760	1240	1050	922
23	1290	1290	1420	1320	2730	2110	1360	1170	2680	1240	1040	930
24	1280	1310	1390	1310	2460	2030	1380	1170	2440	1220	1030	1050
25	1280	1310	1360	1290	2260	1980	1350	2190	2150	1180	1100	1150
26	1280	1290	1340	1270	2970	1920	1330	2080	2020	1150	1120	1120
27	1280	1280	1330	1260	4980	1880	1310	3380	2800	1120	1080	1070
28	1280	1270	1320	1270	5000	1870	1300	3600	2610	1110	1070	1030
29	1280	1260	1310	1270	4330	1910	1290	2790	2220	1210	1060	1010
30	1280	1240	1310	1270	---	1970	1280	2260	2010	1320	1040	985
31	1280	---	1300	1260	---	1970	---	1950	---	1390	1020	---
MEAN	1298	1293	1614	1481	2294	2219	1524	1535	1860	1362	1114	984
MAX	1430	1380	2700	2140	5470	3750	1940	3600	2970	1880	1310	1150
MIN	1230	1240	1230	1260	1220	1820	1280	1160	1220	1110	1020	922
IN.	.73	.71	.91	.84	1.21	1.26	.83	.87	1.02	.77	.63	.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2000, BY WATER YEAR (WY)

MEAN	1653	2410	2704	2888	3116	3858	4629	4129	2993	1989	1688	1584
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	951	903
(WY)	1957	1955	1956	1956	1934	1941	1956	1936	1936	1934	1936	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1921 - 2000	
ANNUAL MEAN	2679		1545		2799	
HIGHEST ANNUAL MEAN					5856	1985
LOWEST ANNUAL MEAN					1326	1954
HIGHEST DAILY MEAN	28900	Feb 9	5470	Feb 19	90000	Mar 12 1935
LOWEST DAILY MEAN	1230	Oct 1-6,Dec 1,2	922	Sep 20,22	852	Oct 8 1956
ANNUAL SEVEN-DAY MINIMUM	1230	Oct 1	927	Sep 17	852	Oct 8 1956
INSTANTANEOUS PEAK FLOW	---		5740	Feb 19	122000	Dec 3 1982
INSTANTANEOUS PEAK STAGE	---		3.68	Feb 19	25.49	Dec 3 1982
INSTANTANEOUS LOW FLOW	---		922	Sep 19-23	852	Oct 8-19 1956
ANNUAL RUNOFF (INCHES)	17.85		10.32		18.66	
10 PERCENT EXCEEDS	4670		2270		4970	
50 PERCENT EXCEEDS	1900		1300		1930	
90 PERCENT EXCEEDS	1280		1060		1180	

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
OCT											
18...	1315	1380	9.9	98	7.9	331	15.6	K3	K2	K1	174
NOV											
03...	0915	1380	8.1	72	8.0	326	11.2	K18	K17	K13	181
DEC											
13...	1310	2760	10.4	91	7.7	316	9.7	K40	K29	54	169
JAN											
18...	1505	1360	9.2	79	8.0	334	9.7	K1	K1	K7	179
FEB											
10...	0940	1220	9.6	86	8.2	327	10.2	K3	K4	K3	166
MAR											
22...	1225	2180	10.1	96	7.6	286	13.6	K2	K3	K2	147
APR											
12...	0910	1530	8.0	78	8.1	423	14.0	K4	K15	K10	160
MAY											
09...	1630	1260	7.4	85	8.1	326	21.4	K5	K10	69	166
JUN											
21...	0845	2380	7.8	88	8.0	292	21.0	180	190	K560	153
JUL											
19...	0920	1200	8.6	103	8.0	328	24.4	20	24	100	155
AUG											
09...	1400	1120	4.4	56	8.1	338	27.4	K3	K9	K7	173
SEP											
11...	1500	988	8.8	104	8.1	333	24.6	<1	K1	K5	176

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
OCT											
18...	178	217	0	--	--	--	--	--	--	--	--
NOV											
03...	182	223	0	190	39.2	22.3	.3	2.5	2.9	<.1	2.4
DEC											
13...	170	208	0	--	--	--	--	--	--	--	--
JAN											
18...	181	221	0	190	39.0	22.9	E.2	3.4	2.9	.1	3.5
FEB											
10...	168	205	0	--	--	--	--	--	--	--	--
MAR											
22...	148	181	0	--	--	--	--	--	--	--	--
APR											
12...	159	194	0	--	--	--	--	--	--	--	--
MAY											
09...	167	203	0	180	35.7	21.3	.4	2.2	2.3	<.1	3.3
JUN											
21...	154	188	0	--	--	--	--	--	--	--	--
JUL											
19...	156	191	0	180	34.6	21.5	.3	2.9	2.6	<.1	2.7
AUG											
09...	175	214	0	--	--	--	--	--	--	--	--
SEP											
11...	178	217	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07068000 CURRENT RIVER AT DONIPHAN, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
OCT											
18...	<.020	.12	.131	<.010	<.050	<.010	<.050	--	--	--	--
NOV											
03...	<.020	E.10	.170	<.010	E.032	<.010	<.050	<10	2	212	<15
DEC											
13...	<.020	.10	.234	<.010	<.050	<.010	<.050	--	--	--	--
JAN											
18...	<.020	<.10	.304	<.010	<.050	<.010	<.050	<10	1	180	<15
FEB											
10...	<.020	E.10	.228	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
22...	<.020	.23	.379	<.010	<.050	<.010	<.050	--	--	--	--
APR											
12...	<.020	E.10	.296	<.010	<.050	<.010	<.050	--	--	--	--
MAY											
09...	<.020	.11	.216	<.010	<.050	<.010	<.050	27	<10	183	E9
JUN											
21...	<.020	.31	.191	<.010	<.050	<.010	<.050	--	--	--	--
JUL											
19...	<.020	.11	.205	<.010	<.050	<.010	<.050	<10	2	183	9
AUG											
09...	<.020	.16	.151	<.010	<.050	<.010	<.050	--	--	--	--
SEP											
11...	<.020	E.10	.140	<.010	<.050	<.010	<.050	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
03...	E22	<8.0	<.1	<10	10	<100	<1	3	<.3	E14	<31
JAN											
18...	E16	<8.0	<.1	<10	<10	<100	<1	E2	<.3	41	E16
MAY											
09...	E23	<8.0	<.1	<10	E10	<100	<1	8	<.3	E16	<31
JUL											
19...	48	<8.0	<.1	<10	<10	16	1	5	<.1	14	21

E--Laboratory estimated value.

07068510 LITTLE BLACK RIVER BELOW FAIRDEALING, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

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: 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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV 01...	1620	52	6.3	63	7.7	302	16.2	K170	K250	150	157
JAN 19...	1600	104	11.2	93	7.7	211	7.2	K15	64	110	107
MAR 22...	0935	512	10.2	92	7.1	129	11.0	120	140	110	48
MAY 09...	1415	76	4.5	52	7.6	244	21.8	39	K64	K11	121
JUL 18...	1600	58	5.5	69	7.6	245	27.0	220	280	50	111
SEP 13...	1700	42	5.9	72	7.8	317	24.9	22	60	72	158

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV 01...	160	195	0	160	34.5	18.4	.6	3.0	2.3	.2	4.8
JAN 19...	104	127	0	--	--	--	--	--	--	--	--
MAR 22...	48	60	0	--	--	--	--	--	--	--	--
MAY 09...	122	149	0	130	25.9	14.8	E.2	3.1	2.2	<.1	3.0
JUL 18...	113	138	0	--	--	--	--	--	--	--	--
SEP 13...	157	197	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07068510 LITTLE BLACK RIVER BELOW FAIRDEALING, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
NOV											
01...	<.020	.13	<.050	<.010	<.050	<.010	<.050	10	5	199	21
JAN											
19...	<.020	E.10	.144	<.010	<.050	<.010	<.050	--	--	--	--
MAR											
22...	<.020	.31	.060	<.010	<.050	<.010	<.050	--	--	--	--
MAY											
09...	.051	.27	.077	<.010	<.050	<.010	E.038	<10	17	134	53
JUL											
18...	<.020	.19	.093	<.010	<.050	<.010	<.050	--	--	--	--
SEP											
13...	.027	.18	.056	<.010	<.050	.011	E.030	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
01...	93	<8.0	<.1	<10	130	<100	<1	66	<.3	51	<31
MAY											
09...	154	<8.0	<.1	<10	210	<100	E1	102	<.3	39	<31

E--Laboratory estimated value.

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.--Estimated daily discharges: Oct. 1-3, May 24 to June 4, June 6-11, and June 18 to July 1. Water-discharge records fair except for 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	234	221	188	185	166	331	251	191	303	289	226	183
2	232	216	188	185	165	318	251	191	298	284	222	182
3	230	215	188	195	163	311	250	190	294	279	217	182
4	229	215	188	211	162	316	241	188	291	274	212	180
5	229	215	191	205	162	320	237	188	288	269	212	178
6	229	212	191	198	159	320	236	186	285	266	210	178
7	229	211	189	195	159	309	236	185	283	262	208	178
8	229	208	188	191	159	300	238	185	281	258	205	178
9	232	208	189	188	159	292	230	185	279	258	205	178
10	236	205	196	183	159	287	226	183	277	254	202	178
11	236	205	198	178	159	277	225	181	274	251	202	178
12	236	202	217	175	159	267	222	178	271	249	200	177
13	236	204	243	169	159	258	219	178	268	247	198	175
14	237	202	243	166	159	251	219	176	264	244	198	175
15	240	204	230	166	159	247	219	175	260	240	196	175
16	242	202	222	166	159	241	218	175	257	238	193	174
17	240	200	215	169	169	236	216	175	262	236	191	172
18	240	195	209	172	296	230	211	172	350	233	190	172
19	234	195	208	170	326	230	208	172	340	232	188	174
20	233	195	206	169	306	233	208	169	330	230	188	175
21	236	195	205	172	293	239	205	169	323	232	188	175
22	236	194	205	172	281	236	203	169	338	232	186	175
23	233	192	202	172	266	233	202	169	331	227	185	175
24	231	192	198	169	248	230	201	169	327	223	186	172
25	226	194	195	169	237	229	198	192	323	222	188	172
26	226	191	194	169	286	229	195	242	319	220	188	172
27	226	188	191	168	378	229	195	297	313	217	188	172
28	225	185	188	166	368	229	195	326	307	215	186	172
29	222	182	188	166	346	230	194	318	301	220	185	172
30	222	185	188	166	---	238	192	313	295	236	185	172
31	222	---	185	166	---	249	---	308	---	231	185	---
MEAN	232	201	201	177	220	263	218	203	298	244	197	176
MAX	242	221	243	211	378	331	251	326	350	289	226	183
MIN	222	182	185	166	159	229	192	169	257	215	185	172

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2000, BY WATER YEAR (WY)

MEAN	261	287	309	331	348	395	446	445	403	337	297	270
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1922 - 2000	
ANNUAL MEAN	321		219		344	
HIGHEST ANNUAL MEAN					566	1928
LOWEST ANNUAL MEAN					174	1956
HIGHEST DAILY MEAN	537	Apr 16	378	Feb 27	1010	Dec 3 1982
LOWEST DAILY MEAN	182	Nov 29	159	Feb 6-13	104	Nov 16 1956
ANNUAL SEVEN-DAY MINIMUM	186	Nov 27	159	Feb 6	105	Nov 13 1956
INSTANTANEOUS PEAK FLOW	---		378	Feb 27	1770	Dec 3 1982
INSTANTANEOUS PEAK STAGE	---		.99	Feb 27	2.97	Dec 3 1982
INSTANTANEOUS LOW FLOW	---		159	Feb 6-13	104	Nov 16 1956
10 PERCENT EXCEEDS	455		292		545	
50 PERCENT EXCEEDS	309		208		325	
90 PERCENT EXCEEDS	202		170		172	

07071000 GREER SPRING AT GREER, MO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)
DEC												
13...	1210	244	9.1	89	6.9	367	14.4	K3	K3	K1	180	185
MAR												
22...	1430	233	8.4	82	7.2	295	14.3	K17	25	K8	144	146
MAY												
10...	1100	182	8.8	88	7.7	347	14.6	K2	K4	94	180	181
AUG												
07...	1315	208	9.2	91	7.6	349	14.7	K3	K4	21	179	179

DATE	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)
DEC												
13...	226	0	200	41.7	23.1	.7	2.0	3.7	<.1	3.1	<.020	<.10
MAR												
22...	179	0	160	33.5	18.9	.9	2.1	3.6	<.1	3.0	<.020	E.10
MAY												
10...	221	0	190	38.2	22.1	.7	2.0	2.4	.2	4.5	<.020	E.10
AUG												
07...	218	0	190	39.6	22.1	.5	3.7	2.2	<.1	2.4	<.020	<.10

DATE	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (mg/L as N) (00631)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (UG/L as Al) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)
DEC												
13...	.568	<.010	<.050	.013	<.050	<10	2	200	<15	E26	<8.0	<.1
MAR												
22...	1.27	<.010	<.050	<.010	<.050	<10	<1	168	33	56	<8.0	<.1
MAY												
10...	.651	<.010	<.050	<.010	<.050	<10	<10	--	E8	<28	<8.0	<.1
AUG												
07...	.657	<.010	<.050	<.010	<.050	<10	<10	195	<15	E27	<8.0	<.1

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)
DEC											
13...	<10	<10	<100	<1	<2	<.3	56	<31	<.003	<.002	<.002
MAR											
22...	<10	20	<100	<1	<2	<.3	68	<31	<.003	<.002	<.002
MAY											
10...	<10	<10	<100	<1	3	<.3	52	<31	<.003	<.002	<.002
AUG											
07...	<10	E10	<100	<1	<2	<.3	79	<31	<.003	<.002	<.002

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

07071000 GREER SPRING AT GREER, MO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ATRAZINE, WATER, DISS, REC (µg/L) (39632)	METHYL AZINPHOS WAT FLT 0.7 µ GF, REC (µg/L) (82686)	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)	DIAZINON, DISSOLVED (µg/L) (39572)
DEC 13...	<.001	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
MAR 22...	<.001	<.001	E.004	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
MAY 10...	<.001	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
AUG 07...	<.001	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002

DATE	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 0.7 µ GF, REC (µg/L) (82666)	MALATHION, DISSOLVED (µg/L) (39532)	METOLACHLOR WATER DISSOLV (µg/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (µg/L) (82630)
DEC 13...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.002	<.004
MAR 22...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.002	<.004
MAY 10...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.002	<.004
AUG 07...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.002	<.004

DATE	MOLINATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82684)	PARATHION, DISSOLVED (µg/L) (39542)	METHYL PARATHION WAT FLT 0.7 µ GF, REC (µg/L) (82667)	PEBULATE WATER FILTRD 0.7 µ GF, REC (µg/L) (82669)	PENDIMETHALIN WAT FLT 0.7 µ GF, REC (µg/L) (82683)	PHORATE WATER FLTRD 0.7 µ GF, REC (µg/L) (82664)	PROMETON, WATER, DISS, REC (µg/L) (04037)	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)
DEC 13...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
MAR 22...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
MAY 10...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013
AUG 07...	<.004	<.003	<.004	<.006	<.004	<.004	<.002	<.018	<.007	<.004	<.013

DATE	PRONAMIDE WATER FLTRD 0.7 µ GF, REC (µg/L) (82676)	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)	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)	ALPHA BHC DISSOLVED (µg/L) (34253)	PERMETHRIN CIS WAT FLT 0.7 µ GF, REC (µg/L) (82687)	P,P' DDE DISSOLV (µg/L) (34653)
DEC 13...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
MAR 22...	<.003	<.005	<.010	<.007	<.013	E.004	.005	E.004	<.002	<.005	<.006
MAY 10...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006
AUG 07...	<.003	<.005	<.010	<.007	<.013	<.002	<.001	<.002	<.002	<.005	<.006

E--Laboratory estimated value.

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.--No estimated daily discharges. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	298	300	262	265	249	727	447	294	633	500	322	252
2	297	296	264	270	247	656	445	293	589	482	312	251
3	297	288	275	316	249	634	434	293	551	467	303	249
4	295	286	282	376	247	655	418	294	517	449	299	248
5	294	285	287	355	244	678	405	291	493	432	296	244
6	294	282	278	327	242	645	398	306	469	418	292	243
7	294	281	271	311	243	606	394	294	450	405	290	244
8	322	280	268	305	242	575	380	291	434	394	289	245
9	313	280	294	302	242	550	367	289	420	384	285	247
10	317	280	348	299	247	523	362	284	410	377	281	248
11	313	279	328	291	246	507	362	281	401	370	277	245
12	304	276	371	285	252	484	352	283	388	363	275	252
13	302	278	430	280	251	464	347	278	377	355	274	244
14	298	277	405	270	250	450	344	270	374	349	272	241
15	297	275	369	270	246	439	342	268	367	343	269	238
16	300	275	343	271	244	439	344	269	361	339	266	236
17	338	273	328	268	272	421	336	270	485	333	265	236
18	307	274	316	268	733	416	331	274	1080	352	269	236
19	301	275	308	268	885	418	329	271	1090	332	264	236
20	295	272	301	265	699	427	328	265	790	353	267	237
21	293	272	292	262	596	426	321	265	774	356	264	234
22	293	274	287	265	537	416	317	265	949	343	262	235
23	291	277	283	263	498	407	317	265	848	338	262	238
24	289	269	281	260	471	405	319	266	741	332	263	267
25	287	268	276	258	445	400	312	483	667	325	263	280
26	288	268	276	254	673	393	306	715	612	321	263	261
27	289	268	275	252	1180	395	303	804	573	317	262	244
28	287	266	273	255	954	390	301	888	543	313	260	240
29	285	263	272	255	812	394	298	818	521	333	256	237
30	286	262	271	251	---	416	295	744	500	338	254	236
31	285	---	267	249	---	448	---	683	---	333	253	---
MEAN	298	277	303	280	438	490	352	382	580	369	275	245
MAX	338	300	430	376	1180	727	447	888	1090	500	322	280
MIN	285	262	262	249	242	390	295	265	361	313	253	234
IN.	.43	.39	.44	.41	.60	.71	.50	.56	.82	.54	.40	.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2000, BY WATER YEAR (WY)

MEAN	427	602	717	797	839	1067	1316	1155	888	610	488	435
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1922 - 2000	
ANNUAL MEAN	558		357		778	
HIGHEST ANNUAL MEAN					1782	1985
LOWEST ANNUAL MEAN					310	1981
HIGHEST DAILY MEAN	2410	Apr 4	1180	Feb 27	26800	Apr 14 1927
LOWEST DAILY MEAN	262	Nov 30,Dec 1	234	Sep 21	155	Jan 26 1956
ANNUAL SEVEN-DAY MINIMUM	265	Nov 26	236	Sep 16	157	Jan 21 1956
INSTANTANEOUS PEAK FLOW	---		1540	Jun 18	49800	Dec 3 1982
INSTANTANEOUS PEAK STAGE	---		3.93	Jun 18	21.64	Dec 3 1982
INSTANTANEOUS LOW FLOW	---		232	Sep 18,21,22	152	Jan 27 1956
ANNUAL RUNOFF (INCHES)	9.55		6.13		13.32	
10 PERCENT EXCEEDS	969		545		1420	
50 PERCENT EXCEEDS	442		295		558	
90 PERCENT EXCEEDS	281		249		266	

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV 01...	1355	307	8.4	85	7.8	354	16.2	33	35	52	190
JAN 18...	1300	268	9.9	89	8.0	359	11.1	K5	K18	K8	190
MAR 20...	1635	429	11.7	112	7.7	299	13.3	K3	K4	K6	163
MAY 10...	0830	282	7.5	77	8.0	353	16.5	K3	K14	25	185
JUL 17...	1635	333	10.0	112	8.2	322	21.5	21	120	270	170
SEP 11...	1330	245	10.7	120	7.8	356	21.8	K4	K14	30	190

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV 01...	192	235	0	190	39.3	23.2	.9	1.7	.4	<.1	5.0
JAN 18...	196	239	0	--	--	--	--	--	--	--	--
MAR 20...	163	199	0	--	--	--	--	--	--	--	--
MAY 10...	184	225	0	200	40.0	23.2	.3	2.7	1.9	<.1	2.4
JUL 17...	170	207	0	--	--	--	--	--	--	--	--
SEP 11...	196	240	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV 01...	<.020	E.10	.385	<.010	E.039	<.010	<.050	<10	<1	305	<15
JAN 18...	.026	<.10	.582	<.010	<.050	.013	E.037	--	--	--	--
MAR 20...	<.020	E.10	.848	<.010	<.050	<.010	<.050	--	--	--	--
MAY 10...	<.020	.12	.416	<.010	<.050	<.010	<.050	<10	<10	202	<15
JUL 17...	<.020	.14	.410	<.010	<.050	<.010	<.050	--	--	--	--
SEP 11...	<.020	E.10	.335	<.010	<.050	.010	<.050	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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 01...	E28	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
MAY 10...	E15	<8.0	<.1	<10	10	<100	<1	10	<.3	28	<31

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.--No estimated daily discharges. Records good. U.S. Army Corps of Engineers 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	94	77	69	225	147	476	637	166	211	1730	470	80
2	89	71	67	217	145	425	503	179	191	2810	392	77
3	87	73	84	225	144	453	439	188	178	1520	342	74
4	85	69	2160	236	143	536	395	181	165	852	308	71
5	84	68	5070	239	141	536	361	166	156	625	274	68
6	84	69	2430	232	140	520	336	281	149	498	247	69
7	83	67	1140	223	139	482	317	386	143	418	224	69
8	81	67	609	221	139	453	294	261	136	363	207	69
9	82	66	850	224	137	420	271	5220	127	324	190	69
10	81	65	3080	225	131	392	258	4480	119	297	176	70
11	80	66	2200	223	130	404	247	1910	162	268	166	66
12	78	64	1170	217	130	450	237	899	267	248	155	86
13	79	64	803	211	128	763	225	625	228	225	143	106
14	79	64	613	208	127	847	220	499	827	217	132	94
15	76	63	561	200	127	692	213	427	989	221	130	87
16	76	60	503	193	124	556	201	399	1480	206	127	85
17	73	60	453	189	129	485	194	378	3940	195	120	81
18	70	62	419	184	303	449	190	343	2430	188	113	77
19	73	61	392	182	602	471	186	307	1220	177	109	73
20	75	60	368	175	552	634	179	281	1490	248	104	71
21	75	59	342	171	431	600	168	262	8900	340	101	68
22	73	61	320	170	364	476	164	248	5460	4040	99	68
23	73	100	306	166	337	416	165	239	3210	10600	103	91
24	72	93	294	162	311	418	205	240	1240	3410	96	97
25	72	106	282	160	328	451	180	282	830	2000	93	92
26	73	97	270	157	1100	423	169	515	910	672	91	95
27	73	86	260	155	1260	515	161	708	835	558	88	92
28	73	79	252	156	759	453	153	570	826	1370	86	89
29	72	75	243	153	556	436	145	371	1890	787	85	86
30	77	73	238	151	---	744	137	289	1380	805	84	82
31	84	---	232	148	---	750	---	240	---	602	82	---
MEAN	78.3	71.5	841	193	317	520	252	695	1336	1188	166	80.1
MAX	94	106	5070	239	1260	847	637	5220	8900	10600	470	106
MIN	70	59	67	148	124	392	137	166	119	177	82	66
IN.	.08	.07	.83	.19	.29	.52	.24	.69	1.28	1.18	.16	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2000, BY WATER YEAR (WY)

MEAN	671	964	723	712	916	1226	1486	1561	1402	718	436	567
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1924 - 2000	
ANNUAL MEAN	1342		480		942	
HIGHEST ANNUAL MEAN					3093	1993
LOWEST ANNUAL MEAN					61.4	1954
HIGHEST DAILY MEAN	26200	May 5	10600	Jul 23	108000	Sep 25 1993
LOWEST DAILY MEAN	59	Nov 21	59	Nov 21	4.5	Aug 28 1954
ANNUAL SEVEN-DAY MINIMUM	60	Nov 16	60	Nov 16	5.0	Sep 2 1954
INSTANTANEOUS PEAK FLOW	---		13700	Jul 23	151000[a]	Sep 26 1993
INSTANTANEOUS PEAK STAGE	---		16.14	Jul 23	34.06	Sep 26 1993
INSTANTANEOUS LOW FLOW	---		56	Nov 22	4.2	Jul 28 1954
ANNUAL RUNOFF (INCHES)	15.66		5.61		10.99	
10 PERCENT EXCEEDS	3010		848		1840	
50 PERCENT EXCEEDS	512		203		302	
90 PERCENT EXCEEDS	75		72		66	

[a]From rating curve extended above 85,000 ft^3/s.

07186480 CENTER CREEK NEAR SMITHFIELD, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°09'20", long 94°36'10", NE $^1/_4$ SW $^1/_4$ 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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
02...	0840	48	9.3	85	8.1	416	12.0	68	48	K30	151
JAN											
11...	0835	108	11.5	94	7.9	388	6.1	K50	90	K20	138
FEB											
16...	0835	61	11.6	95	7.9	406	7.0	K13	24	K9	135
MAR											
22...	0800	185	9.7	90	7.7	382	12.5	74	95	44	130
APR											
12...	0745	123	9.8	93	7.7	376	13.7	52	83	100	134
MAY											
23...	0815	186	7.9	87	8.0	380	20.2	85	96	150	137
JUN											
06...	1130	99	9.5	106	7.9	400	21.2	24	36	21	145
JUL											
25...	1400	158	9.3	108	8.1	370	23.6	91	150	42	138
SEP											
06...	1400	43	8.9	108	7.9	400	25.8	K2	K36	K28	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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
02...	153	187	0	190	70.9	4.31	2.2	10.2	14.2	.2	27.7
JAN											
11...	140	171	0	--	--	--	--	--	--	--	--
FEB											
16...	138	168	0	--	--	--	--	--	--	--	--
MAR											
22...	131	160	0	--	--	--	--	--	--	--	--
APR											
12...	134	164	0	--	--	--	--	--	--	--	--
MAY											
23...	138	168	0	170	64.1	3.10	1.5	6.0	8.1	.2	30.8
JUN											
06...	146	178	0	--	--	--	--	--	--	--	--
JUL											
25...	138	168	0	180	65.8	3.29	2.0	6.1	7.8	.1	33.1
SEP											
06...	151	184	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

07186480 CENTER CREEK NEAR SMITHFIELD, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
NOV											
02...	<.020	.20	2.18	<.010	.103	.076	.117	<10	5	238	E15
JAN											
11...	<.020	E.10	2.73	<.010	E.039	.033	E.045	--	--	--	--
FEB											
16...	<.020	.15	2.42	.014	.076	.059	.086	--	--	--	--
MAR											
22...	<.020	.16	2.21	<.010	E.031	.049	.093	--	--	--	--
APR											
12...	<.020	.18	1.89	<.010	.057	.043	.069	--	--	--	--
MAY											
23...	<.020	.17	1.72	.057	E.044	<.010	.104	<10	13	229	32
JUN											
06...	<.020	.14	2.19	<.010	.104	.085	.112	--	--	--	--
JUL											
25...	<.020	.21	2.14	<.010	.082	.057	.101	<10	<10	221	E11
SEP											
06...	<.020	.19	1.85	<.010	.193	.160	.209	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
02...	45	<8.0	.8	<10	20	<100	5	17	<.3	244	242
MAY											
23...	288	<8.0	1.5	<10	20	<100	9	27	<.3	93	361
JUL											
25...	130	<8.0	1.2	<10	E10	<100	7	32	<.3	161	228

E--Laboratory estimated value.

07186600 TURKEY CREEK NEAR JOPLIN, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

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 2.5 mi upstream from the mouth of Turkey Creek and 3.0 mi northwest of Joplin on County Highway P.

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
02...	1030	13	7.3	71	7.9	588	14.4	290	450	K150	152
JAN											
10...	1550	27	11.9	109	8.2	582	10.5	230	K15	430	144
FEB											
16...	1100	16	9.9	86	7.8	635	9.3	44	46	110	161
MAR											
21...	1425	41	9.6	95	7.8	544	15.3	K6	35	K8	143
APR											
11...	1625	35	9.9	102	8.0	564	17.4	21	K64	27	148
MAY											
23...	1000	52	7.7	85	7.8	565	20.6	400	K380	170	150
JUN											
06...	1015	27	7.6	83	7.7	594	19.8	280	320	73	146
JUL											
26...	0825	26	7.2	83	7.8	540	22.3	270	280	260	149
SEP											
07...	0800	9.2	4.6	54	7.6	685	23.3	290	760	170	155

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
02...	152	186	0	220	80.1	5.66	10.6	27.9	36.5	.2	67.3
JAN											
10...	141	172	0	--	--	--	--	--	--	--	--
FEB											
16...	164	201	0	--	--	--	--	--	--	--	--
MAR											
21...	144	176	0	--	--	--	--	--	--	--	--
APR											
11...	152	185	0	--	--	--	--	--	--	--	--
MAY											
23...	150	184	0	220	79.5	5.09	7.3	22.6	28.9	.2	.6
JUN											
06...	146	179	0	--	--	--	--	--	--	--	--
JUL											
26...	149	182	0	220	81.6	5.03	6.6	20.8	24.2	.2	71.5
SEP											
07...	159	194	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

07186600 TURKEY CREEK NEAR JOPLIN, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
NOV											
02...	<.020	1.4	3.18	<.010	.959	.899	.984	<10	5	353	<15
JAN											
10...	.020	.72	4.92	<.010	.902	.785	.914	--	--	--	--
FEB											
16...	<.020	2.2	3.56	<.010	1.16	.997	1.13	--	--	--	--
MAR											
21...	.024	.44	3.25	<.010	.558	.485	.574	--	--	--	--
APR											
11...	<.020	.75	3.81	<.010	.626	.551	.634	--	--	--	--
MAY											
23...	<.020	1.0	2.91	<.010	.763	.681	.709	12	<10	348	E10
JUN											
06...	.021	1.0	3.80	<.010	.734	.672	.745	--	--	--	--
JUL											
26...	<.020	1.9	3.29	<.010	.538	.431	.557	11	<10	337	<15
SEP											
07...	<.020	2.0	6.66	.014	1.45	1.30	1.44	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
02...	E16	<8.0	2.0	<10	40	<100	2	12	<.3	408	355
MAY											
23...	65	<8.0	1.9	<10	20	<100	7	13	<.3	336	481
JUL											
26...	39	<8.0	2.0	<10	E10	<100	5	17	<.3	236	356

E--Laboratory estimated value.

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.--Estimated daily discharges: Dec. 18 and 20. Records good. U.S. Army Corps of Engineers 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	175	165	146	208	151	291	312	238	224	808	226	125
2	172	160	144	204	150	274	306	245	215	719	219	124
3	171	156	183	219	149	326	292	224	208	621	213	121
4	168	151	549	222	150	427	278	215	202	572	207	119
5	165	151	837	210	147	456	266	204	196	522	200	117
6	167	149	551	204	145	439	257	226	192	485	193	115
7	164	147	426	200	142	411	251	253	187	454	188	115
8	171	145	368	198	141	386	237	243	181	428	190	117
9	167	144	449	198	141	360	226	3320	175	403	185	119
10	165	146	1000	193	141	334	219	1720	170	381	179	118
11	196	144	765	191	141	334	230	1010	196	361	175	118
12	173	143	630	189	139	318	224	779	202	347	172	128
13	166	141	548	185	140	301	213	638	178	331	167	142
14	163	141	494	181	136	293	206	549	262	319	163	144
15	160	139	450	177	135	286	202	493	276	305	159	129
16	158	137	406	177	136	278	201	452	281	292	158	123
17	157	137	375	175	143	269	195	412	565	284	154	122
18	155	136	355	172	172	267	190	377	1280	279	154	118
19	156	138	334	172	180	272	188	345	887	270	153	115
20	156	137	315	169	177	262	190	322	719	300	152	112
21	155	134	297	166	177	253	186	302	5210	319	145	116
22	155	161	285	165	174	248	178	284	4440	328	144	119
23	153	228	272	165	178	243	178	270	1680	316	141	133
24	151	248	259	161	172	243	181	263	1350	287	140	155
25	149	203	248	161	220	234	173	318	1130	267	138	156
26	149	181	240	158	416	231	171	332	993	256	135	145
27	150	169	234	158	364	228	167	328	881	254	132	133
28	150	162	228	161	335	230	165	293	788	247	128	126
29	148	154	224	159	312	247	161	267	738	251	126	121
30	159	149	219	156	---	288	159	250	680	246	126	117
31	176	---	214	151	---	319	---	236	---	236	125	---
MEAN	162	157	389	181	183	302	213	497	823	371	164	125
MAX	196	248	1000	222	416	456	312	3320	5210	808	226	156
MIN	148	134	144	151	135	228	159	204	170	236	125	112
IN.	.44	.41	1.05	.49	.46	.81	.56	1.34	2.15	1.00	.44	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2000, BY WATER YEAR (WY)

MEAN	296	411	363	332	385	566	662	711	580	353	217	254
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1942 - 2000	
ANNUAL MEAN	514		297		427	
HIGHEST ANNUAL MEAN					1221	1993
LOWEST ANNUAL MEAN					77.8	1954
HIGHEST DAILY MEAN	5390	May 5	5210	Jun 21	36700	May 18 1943
LOWEST DAILY MEAN	134	Nov 21	112	Sep 20	15	Sep 7 1954
ANNUAL SEVEN-DAY MINIMUM	137	Nov 15	117	Sep 5	16	Sep 1 1954
INSTANTANEOUS PEAK FLOW	---		6950	May 9	62100	May 18 1943
INSTANTANEOUS PEAK STAGE	---		9.52	May 9	16.80[a]	May 18 1943
INSTANTANEOUS LOW FLOW	---		108	Sep 20	12	Sep 7 1954
ANNUAL RUNOFF (INCHES)	16.35		9.48		13.60	
10 PERCENT EXCEEDS	915		455		879	
50 PERCENT EXCEEDS	356		196		237	
90 PERCENT EXCEEDS	158		137		88	

[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.

REMARKS.--No estimated daily discharges. Records good. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--For period May 25 to Sept. 30, maximum discharge 15,500 ft^3/s, June 17, gage height, 18.95 ft; minimum 4.5 ft^3/s, Sept. 19.

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	---	---	---	---	---	---	---	---	35	462	117	10
2	---	---	---	---	---	---	---	---	33	404	99	9.8
3	---	---	---	---	---	---	---	---	32	428	87	9.1
4	---	---	---	---	---	---	---	---	30	283	79	8.2
5	---	---	---	---	---	---	---	---	30	213	72	7.9
6	---	---	---	---	---	---	---	---	31	174	66	7.2
7	---	---	---	---	---	---	---	---	28	150	61	6.7
8	---	---	---	---	---	---	---	---	26	133	56	6.3
9	---	---	---	---	---	---	---	---	25	119	51	6.7
10	---	---	---	---	---	---	---	---	24	108	48	6.9
11	---	---	---	---	---	---	---	---	25	100	44	7.6
12	---	---	---	---	---	---	---	---	29	93	38	14
13	---	---	---	---	---	---	---	---	27	86	38	12
14	---	---	---	---	---	---	---	---	36	80	36	9.1
15	---	---	---	---	---	---	---	---	45	76	34	7.2
16	---	---	---	---	---	---	---	---	42	71	32	6.4
17	---	---	---	---	---	---	---	---	6020	66	30	5.9
18	---	---	---	---	---	---	---	---	1460	60	29	5.8
19	---	---	---	---	---	---	---	---	710	55	28	5.4
20	---	---	---	---	---	---	---	---	482	63	26	5.1
21	---	---	---	---	---	---	---	---	3380	63	24	5.1
22	---	---	---	---	---	---	---	---	1210	59	22	5.3
23	---	---	---	---	---	---	---	---	657	55	20	11
24	---	---	---	---	---	---	---	---	455	50	19	26
25	---	---	---	---	---	---	---	---	74	344	47	17	22
26	---	---	---	---	---	---	---	---	70	300	44	16	17
27	---	---	---	---	---	---	---	---	59	260	42	15	13
28	---	---	---	---	---	---	---	---	52	260	41	14	12
29	---	---	---	---	---	---	---	---	45	394	281	13	11
30	---	---	---	---	---	---	---	---	41	305	236	12	10
31	---	---	---	---	---	---	---	---	38	---	148	11	---
MEAN	---	---	---	---	---	---	---	---	---	558	138	40.5	9.66
MAX	---	---	---	---	---	---	---	---	---	6020	462	117	26
MIN	---	---	---	---	---	---	---	---	---	24	41	11	5.1

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.

REMARKS.--Estimated daily discharges: May 29 to June 7, June 30 to July 4, July 6-10, and Sept. 19-27. Records fair except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--For period May 24 to Sept. 30, maximum discharge, (by straight line extension above 1,000 ft^3/s) 3,980 ft^3/s, June 21, gage height, 8.80 ft; minimum, 33 ft^3/s, Sept. 20-22.

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	---	---	---	---	---	---	---	---	210	550	104	43
2	---	---	---	---	---	---	---	---	190	480	97	41
3	---	---	---	---	---	---	---	---	170	450	90	41
4	---	---	---	---	---	---	---	---	150	420	86	41
5	---	---	---	---	---	---	---	---	135	389	81	40
6	---	---	---	---	---	---	---	---	120	340	78	37
7	---	---	---	---	---	---	---	---	110	300	74	37
8	---	---	---	---	---	---	---	---	97	270	73	37
9	---	---	---	---	---	---	---	---	91	260	70	37
10	---	---	---	---	---	---	---	---	88	235	68	39
11	---	---	---	---	---	---	---	---	87	220	67	37
12	---	---	---	---	---	---	---	---	87	205	65	53
13	---	---	---	---	---	---	---	---	80	190	65	51
14	---	---	---	---	---	---	---	---	107	175	63	45
15	---	---	---	---	---	---	---	---	150	160	61	41
16	---	---	---	---	---	---	---	---	151	148	60	37
17	---	---	---	---	---	---	---	---	978	137	58	36
18	---	---	---	---	---	---	---	---	1350	132	57	35
19	---	---	---	---	---	---	---	---	885	121	58	34
20	---	---	---	---	---	---	---	---	717	135	57	33
21	---	---	---	---	---	---	---	---	2530	152	56	33
22	---	---	---	---	---	---	---	---	1540	137	55	33
23	---	---	---	---	---	---	---	---	1040	136	54	40
24	---	---	---	---	---	---	---	186	845	119	52	70
25	---	---	---	---	---	---	---	1090	724	110	52	65
26	---	---	---	---	---	---	---	649	655	103	50	60
27	---	---	---	---	---	---	---	516	589	100	50	55
28	---	---	---	---	---	---	---	422	540	98	48	48
29	---	---	---	---	---	---	---	300	545	152	47	44
30	---	---	---	---	---	---	---	240	600	136	45	40
31	---	---	---	---	---	---	---	200	---	114	43	---
MEAN	---	---	---	---	---	---	---	---	519	215	64.0	42.8
MAX	---	---	---	---	---	---	---	---	2530	550	104	70
MIN	---	---	---	---	---	---	---	---	80	98	43	33

07188950 PATTERSON CREEK NEAR TIFF CITY, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 36°39'45", long 94°31'54", in sec.6, T.22 N., R.33 W., McDonald County, Hydrologic Unit 11070208. Station located approximately 2.7 mi south of State Highway 43 on county road, 6.0 mi east of Tiff City.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
NOV											
02...	1540	2.1	8.8	84	8.1	330	14.0	44	96	120	135
JAN											
10...	1345	2.5	10.6	98	8.2	309	11.1	K70	200	K39	127
MAR											
21...	1045	4.1	10.6	97	8.0	294	12.1	48	43	46	123
MAY											
23...	1520	7.0	8.1	90	7.8	278	20.7	K420	K370	K220	105
JUL											
25...	1035	5.0	8.6	91	7.8	316	18.5	60	66	310	133
SEP											
06...	1100	2.4	8.1	87	7.4	322	19.8	100	200	400	138

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
NOV											
02...	135	165	0	150	58.5	1.68	1.8	6.3	9.6	<.1	3.5
JAN											
10...	130	159	0	--	--	--	--	--	--	--	--
MAR											
21...	123	150	0	--	--	--	--	--	--	--	--
MAY											
23...	103	125	0	130	49.3	1.68	2.5	4.6	8.3	<.1	3.8
JUL											
25...	134	164	0	--	--	--	--	--	--	--	--
SEP											
06...	138	168	0	--	--	--	--	--	--	--	--

DATE	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)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
NOV											
02...	<.020	.12	3.25	<.010	E.032	<.010	E.047	<10	6	191	E13
JAN											
10...	.023	E.10	3.52	<.010	<.050	.016	<.050	--	--	--	--
MAR											
21...	<.020	.13	3.64	<.010	<.050	.013	<.050	--	--	--	--
MAY											
23...	<.020	.47	3.02	.016	E.036	.017	E.046	<10	<10	173	<15
JUL											
25...	<.020	.14	3.33	.011	E.039	<.010	E.031	--	--	--	--
SEP											
06...	<.020	E.10	2.98	.012	<.050	<.010	<.050	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
02...	31	<8.0	<.1	<10	30	<100	<1	8	<.3	25	<31
MAY											
23...	75	<8.0	<.1	<10	10	<100	<1	12	<.3	<20	E16

K--Results based on colony count outside the acceptable range (non-ideal colony count).
E--Laboratory estimated value.

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.--Estimated daily discharge: Feb. 11. Records good. U.S. Army Corps of Engineers 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	124	135	136	209	169	392	692	439	422	1960	906	112
2	121	144	134	201	167	359	615	653	385	2150	692	109
3	117	142	159	217	166	403	547	669	355	1960	564	106
4	113	135	265	252	165	1020	495	636	324	1810	481	102
5	112	129	591	298	164	1350	449	669	304	1590	423	96
6	110	123	599	291	163	1070	419	653	285	1400	378	94
7	109	118	475	275	161	862	394	994	267	1260	339	90
8	109	114	387	261	161	735	372	1250	252	1140	314	89
9	108	111	457	256	159	641	350	1790	237	1020	292	88
10	107	108	1410	252	158	568	331	3040	223	904	275	87
11	108	108	1570	242	158	526	344	2300	224	785	260	87
12	108	108	1060	234	158	488	360	1610	229	735	246	111
13	106	108	864	228	155	458	374	1180	236	654	231	127
14	104	105	735	217	155	435	371	925	258	592	219	132
15	102	104	624	209	156	414	364	761	304	539	208	122
16	99	104	539	208	154	397	357	649	333	495	199	110
17	99	103	478	202	161	384	344	578	3270	458	190	103
18	100	103	426	198	178	373	328	519	17000	435	183	98
19	101	102	388	195	215	379	317	473	4910	407	180	96
20	101	104	357	191	231	387	316	427	3050	410	174	91
21	101	101	332	188	234	395	302	392	8280	461	166	89
22	101	104	313	185	229	390	289	360	12800	479	161	89
23	101	167	297	183	234	381	279	334	5120	466	156	120
24	100	226	280	180	231	374	371	309	3400	421	151	164
25	99	226	263	178	261	365	365	711	2750	382	146	220
26	101	194	252	175	318	359	337	990	2330	350	142	219
27	101	171	240	174	373	361	316	837	2160	335	135	192
28	101	156	236	179	446	363	294	713	1920	321	126	170
29	100	146	228	176	432	374	279	608	2130	765	122	154
30	107	142	210	173	---	504	263	532	2150	1350	118	142
31	124	---	213	171	---	749	---	471	---	1220	114	---
MEAN	106	131	468	213	211	524	374	854	2530	879	267	120
MAX	124	226	1570	298	446	1350	692	3040	17000	2150	906	220
MIN	99	101	134	171	154	359	263	309	223	321	114	87
IN.	.14	.17	.62	.28	.26	.69	.48	1.13	3.24	1.16	.35	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	424	735	776	693	865	1351	1615	1512	994	494	264	297
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL MEAN	977		556		834	
HIGHEST ANNUAL MEAN					1881	1993
LOWEST ANNUAL MEAN					135	1954
HIGHEST DAILY MEAN	12900	May 5	17000	Jun 18	68600	Apr 19 1941
LOWEST DAILY MEAN	99	Oct 16	87	Sep 10	5.1	Sep 5 1954
ANNUAL SEVEN-DAY MINIMUM	100	Oct 16	90	Sep 5	5.6	Sep 2 1954
INSTANTANEOUS PEAK FLOW	---		26800	Jun 18	137000	Apr 19 1941
INSTANTANEOUS PEAK STAGE	---		19.15	Jun 18	28.40	Apr 19 1941
ANNUAL RUNOFF (INCHES)	15.21		8.68		13.00	
10 PERCENT EXCEEDS	2350		1020		1760	
50 PERCENT EXCEEDS	410		264		343	
90 PERCENT EXCEEDS	109		104		87	

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD FET FIELD (mg/L as $CaCO_3$) (00410)
OCT											
05...	0840	112	7.5	75	8.0	300	15.3	K11	K18	K8	125
NOV											
02...	1320	144	10.6	103	8.3	316	14.5	K8	K20	K10	128
DEC											
01...	1325	136	15.4	139	8.2	298	10.8	K2	K3	K1	142
JAN											
10...	1240	252	15.2	132	8.8	290	8.1	K2	K4	K7	125
FEB											
15...	1400	156	14.1	126	8.9	202	10.7	K2	K2	K28	125
MAR											
21...	0925	395	9.8	89	7.7	283	11.1	K10	K11	K13	123
APR											
12...	0955	360	9.6	91	7.6	277	13.4	K15	K21	40	120
MAY											
23...	1320	334	13.8	164	8.3	280	23.7	K8	K15	24	127
JUN											
06...	0800	285	7.1	76	7.8	299	19.1	26	37	44	132
JUL											
25...	0820	382	6.8	78	7.9	306	22.8	22	22	83	133
AUG											
15...	1445	208	11.2	145	8.1	301	29.8	25	K18	K20	131
SEP											
06...	0930	94	5.7	68	7.5	309	24.7	38	K78	28	131

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)	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)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	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)
OCT											
05...	126	154	0	--	--	--	--	--	--	--	--
NOV											
02...	128	155	1	150	53.9	3.09	1.9	8.7	12.6	<.1	6.8
DEC											
01...	143	175	0	--	--	--	--	--	--	--	--
JAN											
10...	124	134	8	150	54.5	3.16	.9	6.7	9.2	<.1	6.8
FEB											
15...	126	137	8	--	--	--	--	--	--	--	--
MAR											
21...	124	151	0	--	--	--	--	--	--	--	--
APR											
12...	122	149	0	--	--	--	--	--	--	--	--
MAY											
23...	127	155	0	130	49.2	2.88	1.8	5.5	7.5	<.1	<.3
JUN											
06...	132	161	0	--	--	--	--	--	--	--	--
JUL											
25...	134	163	0	150	54.2	2.98	1.6	6.6	6.9	<.1	6.4
AUG											
15...	131	160	0	--	--	--	--	--	--	--	--
SEP											
06...	131	160	0	--	--	--	--	--	--	--	--

K--Results based on colony count outside the acceptable range (non-ideal colony count).

07189000 ELK RIVER NEAR TIFF CITY, MO--Continued
(Ambient water-quality monitoring network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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 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)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L) (70300)	ALUMINUM, DISSOLVED (µg/L as Al) (01106)
OCT											
05...	<.020	.11	.988	<.010	.105	.093	.106	--	--	--	--
NOV											
02...	<.020	.15	1.12	<.010	.266	.240	.264	<10	4	179	<15
DEC											
01...	<.020	.11	1.54	<.010	.233	.187	.243	--	--	--	--
JAN											
10...	<.020	.10	1.91	<.010	.159	.131	.171	<10	1	173	<15
FEB											
15...	<.020	.14	1.71	<.010	.247	.192	.222	--	--	--	--
MAR											
21...	<.020	.14	1.58	<.010	.118	.138	.174	--	--	--	--
APR											
12...	<.020	.15	1.22	<.010	.182	.159	.186	--	--	--	--
MAY											
23...	<.020	.13	.638	.042	.161	.071	.191	<10	<10	166	E11
JUN											
06...	<.020	.13	1.04	<.010	.143	.115	.144	--	--	--	--
JUL											
25...	<.020	.12	1.71	<.010	.171	.133	.179	<10	<10	177	<15
AUG											
15...	<.020	.16	1.24	<.010	.173	.158	.181	--	--	--	--
SEP											
06...	<.020	E.10	.951	<.010	.219	.194	.218	--	--	--	--

DATE	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	CADMIUM DISSOLVED (µg/L as Cd) (01025)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	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											
02...	E18	<8.0	<.1	<10	E10	<100	<1	3	<.3	E20	<31
JAN											
10...	E21	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
MAY											
23...	30	<8.0	<.1	<10	<10	<100	<1	<2	<.3	<20	<31
JUL											
25...	E23	<8.0	<.1	<10	<10	<100	<1	E2	<.3	24	<31

E--Laboratory estimated value.

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.

REMARKS.--Estimated daily discharge: June 7. Records fair. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--For period May 24 to Sept. 30, maximum discharge 5,250 ft^3/s, June 21, gage height 10.01 ft; mimimum 0.33 ft^3/s, Sept. 19-22.

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	---	---	---	---	---	---	---	---	71	162	22	1.6
2	---	---	---	---	---	---	---	---	58	139	19	1.3
3	---	---	---	---	---	---	---	---	49	117	18	1.2
4	---	---	---	---	---	---	---	---	42	100	16	1.3
5	---	---	---	---	---	---	---	---	36	87	14	1.0
6	---	---	---	---	---	---	---	---	29	74	13	.81
7	---	---	---	---	---	---	---	---	28	64	12	.71
8	---	---	---	---	---	---	---	---	32	57	11	.64
9	---	---	---	---	---	---	---	---	30	50	10	.58
10	---	---	---	---	---	---	---	---	28	45	9.8	.58
11	---	---	---	---	---	---	---	---	29	41	9.7	.55
12	---	---	---	---	---	---	---	---	28	36	9.3	1.8
13	---	---	---	---	---	---	---	---	27	32	9.2	2.4
14	---	---	---	---	---	---	---	---	31	29	8.8	1.8
15	---	---	---	---	---	---	---	---	37	26	7.8	1.6
16	---	---	---	---	---	---	---	---	45	24	7.2	1.3
17	---	---	---	---	---	---	---	---	412	23	6.6	.94
18	---	---	---	---	---	---	---	---	419	22	6.2	.65
19	---	---	---	---	---	---	---	---	265	20	5.8	.46
20	---	---	---	---	---	---	---	---	195	25	5.5	.33
21	---	---	---	---	---	---	---	---	2390	30	4.9	.34
22	---	---	---	---	---	---	---	---	953	32	4.3	.47
23	---	---	---	---	---	---	---	---	518	37	4.1	.86
24	---	---	---	---	---	---	---	63	385	35	3.8	4.9
25	---	---	---	---	---	---	---	831	305	31	3.5	6.1
26	---	---	---	---	---	---	---	311	282	26	3.2	6.8
27	---	---	---	---	---	---	---	248	265	24	2.8	5.1
28	---	---	---	---	---	---	---	197	239	22	2.6	3.6
29	---	---	---	---	---	---	---	153	216	52	2.4	2.5
30	---	---	---	---	---	---	---	118	189	31	2.1	1.8
31	---	---	---	---	---	---	---	91	---	26	1.8	---
MEAN	---	---	---	---	---	---	---	---	254	49.0	8.27	1.80
MAX	---	---	---	---	---	---	---	---	2390	162	22	6.8
MIN	---	---	---	---	---	---	---	---	27	20	1.8	.33

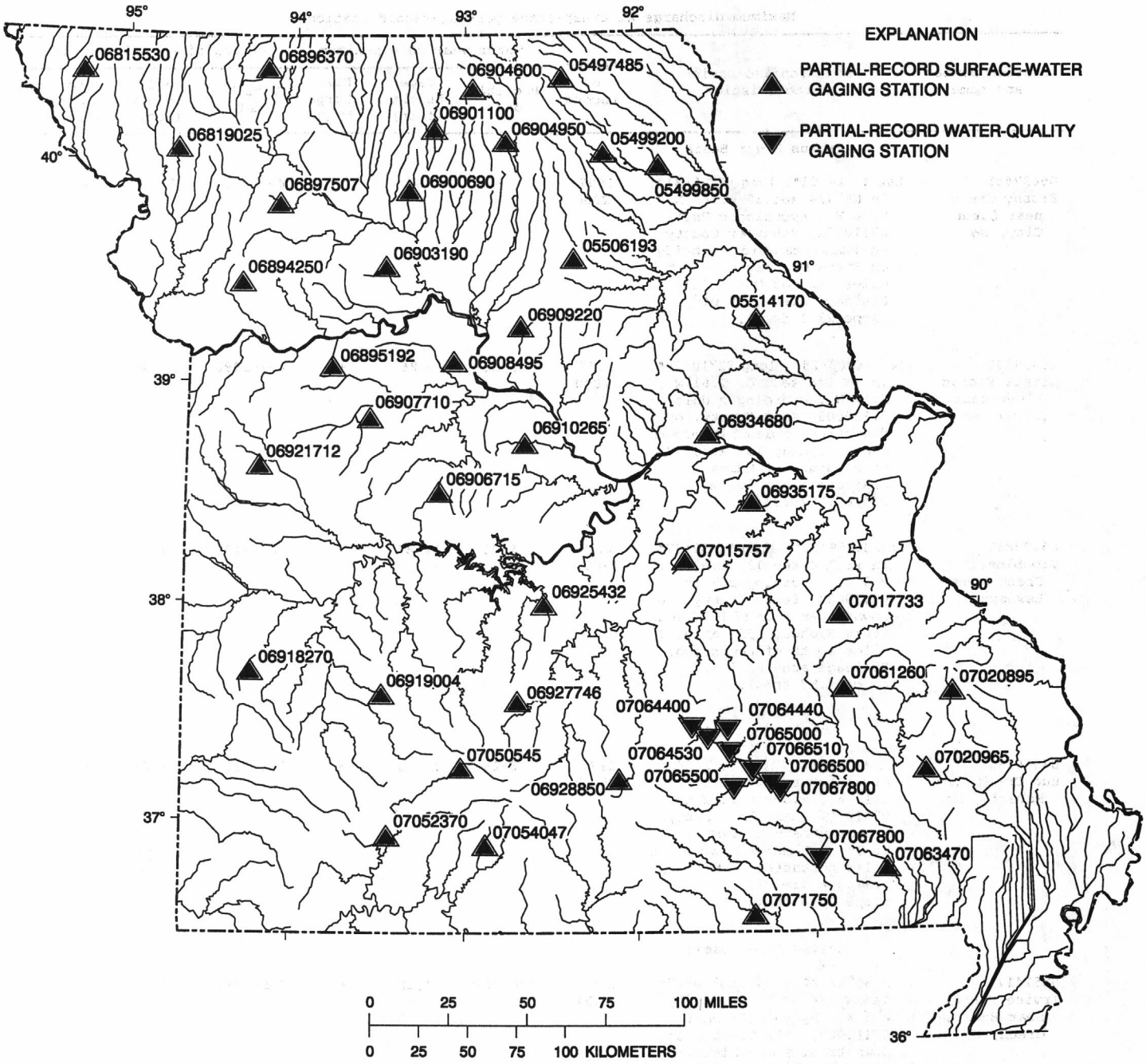

Figure 9. Location of partial-record stations.

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 2000 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.	1997-2000	+	+	+	4-1-1998	11.21	+
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.	1997-2000	6-26	9.86	+	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.	1997-2000	6-26	14.84	+	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.	1997-2000	6-26	11.73	+	7-4-1998	13.83	+
	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.	1997-2000	6-26	11.10	+	7-5-1998	13.91	+

Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2000 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.	1997-2000	+	+	+	6-15-1998	12.41	+
	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.	1997-2000	+	+	+	10-5-1998	17.37	+
	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.	1997-2000	9-23	10.91	+	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.	1997-2000	6-27	17.63	+	2-12-1998	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.	1997-2000	+	+	+	7-4-1998	14.73	+
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.	1997-2000	+	+	+	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 2000 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.	1997-2000	+	+	+	10-6-1998	15.13	+
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.	1987-2000	6-26	7.55	1,800	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.	1997-2000	+	+	+	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.	1997-2000	+	+	+	10-6-1998	11.25	+
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.	1997-2000	+	+	+	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.	1997-2000	+	+	+	7-26-1998	11.53	5,100

Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2000 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.	1997-2000	5-27	14.29	+	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.	1997-2000	+	+	+	7-30-1998	13.39	+
	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.	1997-2000	6-21	11.69	+	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.	1997-2000	3-28	9.12	+	7-30-1998	15.60	+
	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.	1997-2000	5-9	6.52	+	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.	1997-2000	7-12	4.98	+	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 2000 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.	1997-2000	7-12	13.44	+	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.	1997-2000	+	+	+	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.	1997-2000	+	+	+	11-7-1996	5.05	870
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.	1997-2000	+	+	+	2-27-1997	5.21	1,050
	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.	1997-2000	6-12	6.61	+	+	+	+
	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.	1997-2000	5-7	17.67	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 2000 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.	1997-2000	+	+	+	6- -1997	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.	1997-2000	+	+	+	6- -1997	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.	1997-2000	2-26	6.30	+	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.	1997-2000	6-18	11.58	+	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.	1997-2000	+	+	+	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.	1997-2000	+	+	+	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 2000 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. Drainaga area 25.5 mi^2, slope 47.4 ft/mi.	1997-2000	+	+	+	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.	1997-2000	+	+	+	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.	1997-2000	6-18	9.26	+	4-5-1997	11.82	+
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.	1997-2000	6-18	7.00	+	4-5-1997	7.20	+

+Not determined.

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 collected usually less than quarterly.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	pH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	E. COLI WATER WHOLE TOTAL UREASE (col / 100 mL) (31633)	COLI-FORM, FECAL, 0.7 µm-MF (col / 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (col / 100 mL) (31673)	ANC WATER UNFLTRD IT FIELD (mg/L as $CaCO_3$) (00419)	ANC BICAR-BONATE IT FIELD (mg/L as HCO_3) (00450)
07064400 MONTAUK SPRINGS AT MONTAUK												
OCT												
06...	1245	75	8.4	81	311	7.2	13.6	K1	K1	--	155	193
MAY												
03...	1050	61	8.5	81	306	7.4	13.6	K3	K1	K8	159	196
07064440 CURRENT RIVER BELOW MONTAUK STATE PARK												
OCT												
06...	1125	96	10.6	100	309	7.2	12.8	K8	K11	--	152	191
MAY												
03...	0935	72	10.0	96	309	7.4	14.0	33	44	31	158	195
07064530 WELCH SPRING NEAR AKERS												
OCT												
06...	0900	142	9.2	88	338	7.0	13.6	K1	K5	--	179	222
MAY												
02...	1035	109	9.0	87	316	7.3	13.8	K3	K2	K1	168	209
07064555 PULLTITE SPRING NEAR ROUND SPRING												
OCT												
05...	1157	38	9.3	89	318	7.0	13.8	K1	K7	--	154	194
MAY												
02...	0815	26	9.3	90	305	7.3	13.6	K1	K2	K1	156	194
07065000 ROUND SPRING AT ROUND SPRING												
OCT												
05...	1335	29	9.8	95	333	7.2	14.3	K14	K8	--	178	221
MAY												
02...	1235	18	8.5	83	306	7.3	14.4	K1	K1	K3	168	205
07065500 ALLEY SPRING AT ALLEY												
OCT												
05...	0750	94	8.9	85	318	7.2	13.6	K1	K5	--	163	203
MAY												
02...	1420	110	9.2	89	296	7.3	14.0	K1	K1	K2	162	197
07066510 CURRENT RIVER ABOVE POWDER MILL												
OCT												
04...	1430	632	10.4	105	323	7.4	16.6	K9	K12	K7	173	219
MAY												
01...	1500	600	10.4	117	332	7.8	20.9	K1	K4	K3	171	215
07066550 BLUE SPRING NEAR EMINENCE												
OCT												
05...	1600	101	8.9	86	309	7.1	14.1	K1	K1	--	152	192
MAY												
01...	1655	109	8.7	84	281	7.3	13.5	K1	K1	K1	139	172
07067800 CURRENT RIVER BELOW HAWES CAMPGROUND												
OCT												
04...	1200	827	9.6	95	335	7.4	15.7	K13	K9	K8	160	199
MAY												
01...	1155	722	8.9	96	312	7.5	19.0	K2	K1	K6	161	201

K--Results based on colony count outside the acceptable range (non-ideal colony count).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ANC CAR-BONATE IT FIELD (mg/L as CO_3) (00447)	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)	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)	CADMIUM WATER UNFLTRD TOTAL (µg/L as Cd) (01027)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	SILVER, TOTAL RECOV-ERABLE (µg/L as Ag) (01077)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)
07064400 MONTAUK SPRINGS AT MONTAUK												
OCT 06...	0	<.020	.20	.927	<.010	<.050	<.010	<.050	<.1	<1	<1	<31
MAY 03...	0	<.020	E.10	.823	<.010	<.050	<.010	<.050	<.1	<1	<1	<31
07064440 CURRENT RIVER BELOW MONTAUK STATE PARK												
OCT 06...	0	.030	E.10	.862	<.010	E.032	.010	<.050	E.1	<1	<1	<31
MAY 03...	0	.033	.16	.715	<.010	<.050	<.010	<.050	.1	<1	<1	<31
07064530 WELCH SPRING NEAR AKERS												
OCT 06...	0	<.020	<.10	.684	<.010	<.050	<.010	<.050	E.1	<1	<1	<31
MAY 02...	0	<.020	<.10	.635	<.010	<.050	<.010	<.050	<.1	<1	<1	<31
07064555 PULLTITE SPRING NEAR ROUND SPRING												
OCT 05...	0	<.020	<.10	.646	<.010	<.050	<.010	<.050	<.1	<1	<1	<31
MAY 02...	0	<.020	E.10	.562	<.010	<.050	<.010	<.050	<.1	<1	<1	<31
07065000 ROUND SPRING AT ROUND SPRING												
OCT 05...	0	<.020	<.10	.337	<.010	E.033	<.010	<.050	<.1	<1	<1	<31
MAY 02...	0	<.020	<.10	.341	<.010	<.050	<.010	<.050	<.1	<1	<1	<31
07065500 ALLEY SPRING AT ALLEY												
OCT 05...	0	<.020	<.10	.681	<.010	E.042	<.010	<.050	<.1	<1	<1	<31
MAY 02...	0	<.020	<.10	.658	<.010	<.050	<.010	<.050	<.1	<1	<1	<31
07066510 CURRENT RIVER ABOVE POWDER MILL												
OCT 04...	0	<.020	<.10	.329	<.010	E.037	<.010	<.050	<.1	<1	<1	<31
MAY 01...	0	<.020	E.10	.244	<.010	<.050	<.010	<.050	<.1	<1	<1	<31
07066550 BLUE SPRING NEAR EMINENCE												
OCT 05...	0	<.020	<.10	.365	<.010	E.032	<.010	<.050	<.1	<1	<1	<31
MAY 01...	0	<.020	<.10	.366	<.010	<.050	<.010	<.050	<.1	<1	<1	<31
07067800 CURRENT RIVER BELOW HAWES CAMPGROUND												
OCT 04...	0	<.020	<.10	.235	<.010	<.050	<.010	<.050	<.1	<1	<1	<31
MAY 01...	0	<.020	E.10	.215	<.010	<.050	.041	<.050	<.1	<1	<1	<31

E--Laboratory estimated value.

A

Access to USGS water data 20
Accuracy of data and computed results 14
Acid neutralizing capacity,
definition of 21
Acre-foot, definition of 21
Agee Creek near Savannah 414
Agency
Platte River near 86
Akers
Welch Spring near 421
Alkalinity, definition of 21
Allendale
East Fork Grand River at 106
Alley
Alley Spring at 421
Alley Spring below 370
Alley Spring
Jacks Fork above 368
Jacks Fork at 369
Alley Spring at Alley 421
below Alley 370
Alton
Louse Creek near 419
Ambient water-quality network,
definition of 8
Analyses of samples collected at water-
quality partial-record stations 421
Annapolis
Black River below 364
Black River near 363
Annual 7-day minimum, definition of 22
Annual runoff, definition of 21
Arkansas River Basin,
hydrologic records in 399
Arnold
Martigney Creek near 244
Arrangement of records 15
Atlanta
Long Branch Creek near 131
Ava
Little Beaver Creek near 419

B

Bacteria, definition of 21
Enterococcus, definition of 21
Escherichia coli, definition of 21
Fecal coliform, definition of 21
Fecal streptococcal, definition of 21
Total coliform, definition of 21
Bagnell
Lake of the Ozarks near 169
Osage River near 170
Ballwin
Kiefer Creek near 263
Bardley
Eleven Point River near 397
Barnett Hollow near Camdenton 417
Base flow, definition of 22
Bates Creek at Potosi 418
Battlefield
Wilson Creek near 334
Bear Creek at Hannibal 49
near Bolivar 416
near Patterson 418
Bear Creek Basin, hydrologic records in 49
Beaver Creek at Bradleyville 355
Bed material, definition of 22
Belle
Upper Peavine Creek near 418
Bellefontaine Neighbors
Maline Creek at 221
Watkins Creek at 217
Bennett Springs
Niangua River below 166
Berryman
Courtois Creek at 249
Bethany
Big Muddy Creek near 414
Big Creek at Des Arc 309
at Sam A. Baker State Park 310
Big Muddy Creek near Bethany 414
Big Piney
Big Piney River near 177
Big Piney River at Devil's Elbow 179
below Ft. Leonard Wood 178
near Big Piney 177
Big River at Byrnesville 261
at Irondale 258
near Richwoods 259
Big Spring near Van Buren 387
Big Sugar Creek near Powell 405
Black Jack
Coldwater Creek near 212
Spanish Lake Tributary near 216
Black River at Poplar Bluff 367
below Annapolis 364
near Annapolis 363
Blackwater River at Blue Lick 139
Blank samples, explanation of 18
Blue Lick
Blackwater River at 139
Blue River at Kansas City 99
near Kansas City 95
Blue River Basin, hydrologic records in 95
Blue Spring near Eminence 421
Blue Springs
Blue Springs Reservoir near 101
Blue Springs Reservoir near Blue Springs ... 101
Boaz
James River near 336
Boeuf Creek Basin, hydrologic records in ... 417
Bolivar
Bear Creek near 416
Bonhomme Creek near Clarkson Valley 191
near Ellisville 190
Bonne Femme Creek Basin,
hydrologic records in 416
Boonville
Missouri River at 140
Bourbeuse River above Union 255
at Union 257
near High Gate 254
Bowling Green
Irvine Branch near 413
Bradleyville
Beaver Creek at 355

Branson
Lake Taneycomo at 350
Table Rock Lake near 344
White River below Table Rock Dam near .. 345
White River near 347
Bridgeton
Cowmire Creek at 206
Fee Fee Creek near 201
Brookline
Wilson Creek near 332
Brush Creek
at Main Street in Kansas City 97
at Rockhill Road in Kansas City 98
at Ward Parkway in Kansas City 96
Brushy Creek near Queen City 413
Bryant Creek below Evans 358
near Tecumseh 359
Buffalo Creek at Tiff City 411
Bull Creek near Walnut Shade 353
Burgermeister Spring near Weldon Spring 67
Byrnesville
Big River at 261

C

Cabool
Hamilton Creek near 417
Calendar for water year 2000..... Front Cover
California
Moniteau Creek near 416
Camdenton
Barnett Hollow near 417
Camp Creek near Marshall 416
Canton
Wyaconda River above 40
Caplinger Mills
Sac River near 154
Carrollton
Rock Branch near 415
Cassville
Roaring River Spring near 323
Castor River at Zalma 298
near Fredericktown 418
Caulks Creek at Chesterfield 195
Cedar Creek near Pleasant View 153
Cedar Fork near Gerald 417
Center
Mark Twain Lake near 58
Salt River near 60
Center Creek near Smithfield 400
Centerville
West Fork Black River at 360
Chariton River at Livonia 125
at Novinger 126
near Prairie Hill 127
Chariton River Basin,
hydrologic records in 125
Chemical oxygen demand, definition of 22
Chester, IL
Mississippi River at 293
Chesterfield
Caulks Creek at 195
Creve Coeur Creek at 196
Clarkson Valley
Bonhomme Creek near 191
Classification of records 15
Clear Creek near Harrisonville 417
near Nevada 416
Clearwater Lake near Piedmont 366
Clinton
South Grand River near 160
Coldwater Creek near Black Jack 212
near Hazelwood 211
Cole Camp
Lake Creek near 415
College of the Ozarks
Lake Taneycomo at 348
Contents, definition of 22
Contents, table of v
Continuous-record station, definition of ... 22
Control structure, definition of 22
Control, definition of 22
Cooperation 1
Courtois Creek at Berryman 249
Cowmire Creek at Bridgeton 206
Crane
Dry Crane Creek near 418
Creve Coeur
Creve Coeur Creek near 197
Creve Coeur Creek at Chesterfield 196
near Creve Coeur 197
Crooked Creek near Paris 52
Cubic foot per second per square mile,
definition of 21
Cubic foot per second, definition of 22
Cubic foot per second-day, definition of ... 22
Cuivre River Basin, hydrologic records in .. 63
Cuivre River near Troy 63
Current River above Powder Mill 421
at Doniphan 389
at Van Buren 386
below Hawes Campground 421
below Montauk State Park 421

D

Dadeville
Sac River near 145
Daily record station, definition of 22
Daily record, definition of 22
Dardenne Creek at O'Fallon 65
at Old Town St. Peters 66
Dardenne Creek Basin,
hydrologic records in 65
Data collection and computation 10
Data presentation 11,17
Data table of daily mean values 12
Datum, definition of 22
Deer Creek at Maplewood 238
Definition of terms 21
Des Arc
Big Creek at 309
Des Moines River at St. Francisville 37
Des Moines River Basin,
hydrologic records in 37
DeSoto, KS
Kansas River at 93

Devil's Elbow
Big Piney River at 179
Diagram showing system for numbering miscellaneous sites (latitude and longitude) 9
Discharge at partial-record stations 413
Discharge, definition of 22
Dissolved oxygen, definition of 22
Dissolved trace-element concentrations 18
Dissolved, definition of 22
Dissolved-solids concentration, definition of 22
Doniphan
Current River at 389
Downstream order and station number 9
Drainage area, definition of 23
Drainage basin, definition of 23
Dry Crane Creek near Crane 418
Dry Fork near Hermann 417
Dunlap
No Creek near 112

E

East Fork Black River near Ironton 361,419
East Fork Grand River at Allendale 106
East Fork Little Chariton River
near Huntsville 134
near Macon 133
Edina
Little Fabius River near 413
Eleven Point River near Bardley 397
Elk Fork Salt River near Madison 56
Elk River near Tiff City 408
Ellington
Logan Creek at 365
Ellisville
Bonhomme Creek near 190
Eminence
Blue Spring near 421
Jacks Fork ab 2nd unnamed hollow bl 376
Jacks Fork ab Bald Knob Hollow below ... 378
Jacks Fork ab Lick Log Hollow below 377
Jacks Fork at 373
Jacks Fork below Wastewater Treatment Plant below 375
Mahans Creek above 371
Storys Creek above 372
Engelholm Creek near Wellston 234
Enterococcus bacteria, definition of 21
Escherichia coli (E. coli), definition of .. 21
Eureka
Meramec River near 262
Evans
Bryant Creek below 358
Ewing
Troublesome Creek near 43
Explanation of the records 9

F

Fabius River Basin, hydrologic records in .. 41
Factors fot converting inch-pound units to International System Units (SI) ..... Back Cover
Fairdealing
Little Black River below 392
Fayette
Ganaway Creek near 416
Fecal coliform bacteria, definition of 21
Fecal streptococcal bacteria, definition of 21
Fee Fee Creek near Bridgeton 201
Fenton
Fenton Creek near 283
Yarnell Creek at 282
Fenton Creek near Fenton 283
Fishing River Basin, hydrologic records in 414
Fishpot Creek at Valley Park 272
Flat Creek at Jenkins 342
Florissant
Mill Creek near 210
Flow-duration percentiles, definition of ... 23
Fox River at Wayland 38
Fox River Basin, hydrologic records in 38
Frankford
Spencer Creek below Plum Creek 62
Fredericktown
Castor River near 418
Ft. Leonard Wood
Big Piney River below 178
Roubidoux Creek above 174
Roubidoux Creek below 175

G

Gage datum, definition of 23
Gage height, definition of 23
Gaging station, definition of 23
Galena
James River at 339
Gallatin
Grand River near 107
Marrowbone Creek near 414
Ganaway Creek near Fayette 416
Gasconade River above Jerome 180
at Jerome 183
near Rich Fountain 184
Gasconade River Basin, hydrologic records in 174
Gerald
Cedar Fork near 417
Grafton, IL
Mississippi River at 70
Mississippi River below 71
Graham
Nodaway River near 79
Grand Glaize Creek near Manchester 276
near Valley Park 278
Grand River Basin, hydrologic records in ... 104
Grand River Church
South Grand River at 161
Grand River near Gallatin 107
near Sumner 120
Grant City
Middle Fork Grand River near 104
Graphs showing comparison of 2000 water-year mean discharge to long-term mean discharge 6

Graphs showing water-quality replicate data
for 2000 water year 20
Gravois Creek near Mehlville 240
Greenfield
Turnback Creek above 146
Greer
Greer Spring at 394
Greer Spring at Greer 394

H

Hagers Grove
North Fork Salt River at 50
Hamilton Creek near Cabool 417
Hannibal
Bear Creek at 49
Hardness, definition of 23
Harris
Little Medicine Creek near 116
Medicine Creek near 114
Harrisonville
Clear Creek near 417
Harry S Truman Reservoir at Warsaw 164
Hawes Campground
Current River below 421
Hazelwood
Coldwater Creek near 211
Headwater Diversion Channel Basin,
hydrologic records in 298
Henderson Mound
St. Johns Ditch near 315
Hermann
Dry Fork near 417
Missouri River at 185
Hermitage
Pomme de Terre Lake near 158
Pomme de Terre River near 159
Higginsville
Tabo Creek near 414
High Gate
Bourbeuse River near 254
Holliday
Middle Fork Salt River near 55
Holt
New Hope Creek near 414
Huntsville
East Fork Little Chariton River near ... 134
Huzzah Creek near Steelville 247
Hydrologic benchmark station,
definition of 23
Hydrologic unit, definition of 23

I

Identifying estimated daily discharge 14
Illustrations, list of vi
Inch, definition of 21
Indian Creek near Lanagan 406
Instantaneous discharge, definition of 22
Introduction 1
Irondale
Big River at 258
Ironton
East Fork Black River near 361,419
Irvine Branch near Bowling Green 413

J

Jacks Fork above Alley Spring 368
above 2nd unnamed hollow bl Eminence 376
above Bald Knob Hollow below Eminence ... 378
above Lick Log Hollow below Eminence 377
above L. Shawnee Creek ab Two Rivers 383
above Powell Spring above Two Rivers 379
above Two Rivers 381
at Alley Spring 369
at Eminence 373
bl 3rd unnamed hollow ab Two Rivers 385
below Wastewater Treatment Plant
below Eminence 375
James River at Galena 339
near Boaz 336
near Springfield 328
Jenkins
Flat Creek at 342
Jerome
Gasconade River above 180
Gasconade River at 183
Jones Branch near Springfield 324
Joplin
Shoal Creek above 404
Turkey Creek near 402

K

Kansas City
Blue River at 99
Blue River near 95
Brush Creek at Main Street in 97
Brush Creek at Rockhill Road in 98
Brush Creek at Ward Parkway in 96
Longview Reservoir at 100
Missouri River at 94
Kansas River at DeSoto, KS 93
Kansas River Basin, hydrologic records in .. 93
Kiefer Creek near Ballwin 263
Kirkwood
Sugar Creek at 277
Knob Noster
Little Walnut Creek near 416

L

Laboratory measurements 16
Lake City
Little Blue River near 102
Lake Creek near Cole Camp 415
Lake of the Ozarks near Bagnell 169
Lake Taneycomo at Branson 350
at College of the Ozarks 348
Lakes and Reservoirs
Blue Springs Reservoir
near Blue Springs 101
Clearwater Lake near Piedmont 366
Harry S Truman Reservoir at Warsaw 164
Lake of the Ozarks near Bagnell 169
Long Branch Reservoir near Macon 132
Longview Reservoir at Kansas City 100
Mark Twain Lake near Center 58
Pomme de Terre Lake near Hermitage 158
Smithville Reservoir near Smithville 89

Lakes and Reservoirs--continued
Stockton Lake near Stockton 151
Table Rock Lake near Branson 344
Wappapello Lake at Wappapello 312
Lamine River Basin, hydrologic records in .. 136
Lamine River near Otterville 136
near Pilot Grove 137
Lanagan
Indian Creek near 406
Lebanon
Selvage Hollow near 417
Lewistown
Troublesome Creek near 413
Lick Creek at Perry 57
Lindley Creek near Polk 157
Linneus
Smokey Creek near 415
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 419
Little Black River below Fairdealing 392
Little Blue River Basin, hydrologic records in 100
Little Blue River
below Longview Dam at Kansas City near Lake City 102
Little Chariton River Basin, hydrologic records in 131
Little Fabius River near Edina 413
Little Medicine Creek near Harris 116
Little Piney Creek at Newburg 182
Little Platte River near Osborn 87
near Plattsburg 88
near Smithville 90
Little River Ditch 1 near Morehouse 318
Little River Ditches near Rives 319
Little Sac River at Walnut Grove 148
near Morrisville 150
Little Shawnee Creek above Two Rivers 384
Little Tarkio Creek Basin, hydrologic records in 414
Little Tarkio Creek near Tarkio 414
Little Walnut Creek near Knob Noster 416
Livonia
Chariton River at 125
Locust Creek at Reger 415
near Unionville 118
Logan Creek at Ellington 365
Long Branch Creek near Atlanta 131
Long Branch near Santa Fe 54
Long Branch Reservoir near Macon 132
Longview Reservoir at Kansas City 100
Louse Creek near Alton 419
Loutre River Basin, hydrologic records in .. 417
Low flow, 7-day 10-year, definition of 25
Lower Mississippi River Basin, hydrologic records in 217

M

Macks Creek
Niangua River at Tunnel Dam near 168
Macon
East Fork Little Chariton River near ... 133
Long Branch Reservoir near 132
Madison
Elk Fork Salt River near 56
Mahans Creek above Eminence 371
Maline Creek at Bellefontaine Neighbors 221
Manchester
Grand Glaize Creek near 276
Map showing location of Metropolitan St. Louis Sewer District stations 34
Map showing location of partial record surface- and quality-water stations 412
Map showing location of surface-water quality stations 33
Map showing location of surface-water stations 32
Map showing major drainage basin, physiographic areas, and areas of mean discharge during 2000 5
Maplewood
Deer Creek at 238
Maramec Spring near St. James 245
Mark Twain Lake near Center 58
Marrowbone Creek near Gallatin 414
Marshall
Camp Creek near 416
Marshfield
North Carolina Creek near 418
Martigney Creek near Arnold 244
Mattese
Mattese Creek near 289
Mattese Creek near Mattese 289
Maximum discharge at crest-stage partial-record stations 413
Mckenzie Creek near Shrewsbury 239
Mean discharge, definition of 22
Medicine Creek near Harris 114
Mehlville
Gravois Creek near 240
Membrane filter, definition of 23
Meramec River at Paulina Hills 287
near Eureka 262
near Steelville 246
near Sullivan 251
Meramec River Basin, hydrologic records in 245
Micrograms per gram, definition of 23
Micrograms per liter, definition of 23
Microsiemens per centimeter, definition of 23
Middle Fabius River near Monticello 42
Middle Fork Grand River near Grant City 104
Middle Fork Salt River near Holliday 55
Milan
Spring Creek near 415
Mill Creek
St. Francis River near 307
Mill Creek near Florissant 210
Milligrams per liter, definition of 23
Miscellaneous site, definition of 23

Mississippi River at Chester, IL 293
at Grafton, IL 70
at St. Louis 225
at Thebes, IL 299
below Grafton, IL 71
Mississippi River Main Stem,
hydrologic records in 70
Missouri River at Boonville 140
at Hermann 185
at Kansas City 94
at Rulo, NE 78
at St. Charles 205
at St. Joseph 83
at Waverly 103
Missouri River Basin,
hydrologic records in 190
Missouri River Main Stem,
hydrologic records in 78
Missouri water-use fact sheet 2
Moberly
Mud Creek near 413
Moniteau Creek Basin,
hydrologic records in 416
Moniteau Creek near California 416
Montauk
Montauk Springs at 421
Montauk Springs at Montauk 421
Montauk State Park
Current River below 421
Monticello
Middle Fabius River near 42
North Fabius River at 41
Morehouse
Little River Ditch 1 near 318
Morrisville
Little Sac River near 150
Mount Moriah
Thompson River at 108
Mud Creek near Moberly 413
Mussel Fork near Mystic 129
Mystic
Mussel Fork near 129

N

Nanograms per liter, definition of 23
National Geodetic Vertical Datum of 1929,
definition of 23
National stream-quality accounting network,
definition of 8,24
National water-quality assessment program,
definition of 8
Nephelometric turbidity unit,
definition of 24
Nevada
Clear Creek near 416
New Hope Creek near Holt 414
New London
Salt River near 61
Newburg
Little Piney Creek at 182
NGVD of 1929, definition of 23
Niangua River
at Tunnel Dam near Macks Creek 168
below Bennett Springs 166
No Creek near Dunlap 112
Nodaway River Basin,
hydrologic records in 79
Nodaway River near Graham 79
North Carolina Creek near Marshfield 418
North Fabius River at Monticello 41
North Fork River near Tecumseh 356
North Fork Salt River at Hagers Grove 50
near Shelbina 51
North River at Palmyra 48
North River Basin, hydrologic records in ... 48
Novinger
Chariton River at 126
Walnut Creek near 415
Numbering system for wells and
miscellaneous sites 9

O

O'Fallon
Dardenne Creek at 65
Old Town St. Peters
Dardenne Creek at 66
On-site measurements and
sample collection 15
Osage River above Schell City 141
below Harry S Truman Dam at Warsaw 165
below St. Thomas 171
near Bagnell 170
Osage River Basin, hydrologic records in ... 141
Osborn
Little Platte River near 87
Other data available 15
Otterville
Lamine River near 136

P

Pagedale
River des Peres Tributary at 233
Palmyra
North River at 48
Parameter Code, definition of 24
Paris
Crooked Creek near 52
Partial-record station, definition of 24
Particle size, definition of 24
Particle-size classification,
definition of 24
Patterson
Bear Creek near 418
St. Francis River near 311
Patterson Creek near Tiff City 407
Paulina Hills
Meramec River at 287
Pearson Creek near Springfield 326
Peerless Park
Williams Creek near 268
Percent composition, definition of 24
Perry
Lick Creek at 57
Perryville
South Fork Saline Creek near 297
Pesticides, definition of 24
pH, definition of 24

Physiography 4
Piedmont
Clearwater Lake near 366
Pilot Grove
Lamine River near 137
Platte River at Sharps Station 91
near Agency 86
Platte River Basin, hydrologic records in .. 86
Plattsburg
Little Platte River near 88
Pleasant Hill
Cedar Creek near 153
Polk
Lindley Creek near 157
Pomme de Terre River near 155
Pomme de Terre Lake near Hermitage 158
Pomme de Terre River near Hermitage 159
near Polk 155
Poplar Bluff
Black River at 367
Tenmile Creek near 419
Potosi
Bates Creek at 418
Powder Mill
Current River above 421
Powell
Big Sugar Creek near 405
Prairie Hill
Chariton River near 127
Preface iii
Princeton
Weldon River at 110
Publications on Techniques of Water-Resources Investigations of the U.S. Geological Survey 28
Pulltite Spring near Round Spring 421

Q

Quality assurance of water-quality data 17
Queen City
Brushy Creek near 413

R

Radiochemical programs, definition of 8
Records of stage and water discharge 10
Records of surface-water quality 15
Recurrence interval, definition of 24
Reference samples, explanation of 19
Reger
Locust Creek at 415
Remark codes 18
Replicate samples, definition of 25
Replicate samples, explanation of 19
Report documentation page iv
Rich Fountain
Gasconade River near 184
Richwoods
Big River near 259
River des Peres near University City 229
River des Peres Tributary at Pagedale 233
River mile, definition of 25
Rives
Little River Ditches near 319
Roaring River Spring near Cassville 323
Rock Branch near Carrollton 415
Roubidoux Creek above Ft. Leonard Wood 174
below Ft. Leonard Wood 175
Roubidoux Spring at Waynesville 176
Round Spring
Pulltite Spring near 421
Round Spring at 421
Round Spring at Round Spring 421
Rulo, NE
Missouri River at 78
Runoff, definition of 25

S

Sac River at Highway J below Stockton 152
near Caplinger Mills 154
near Dadeville 145
Saco
St. Francis River near 308
Saline Creek Basin, hydrologic records in 297
Salt River Basin, hydrologic records in 50
Salt River near Center 60
near New London 61
Sam A. Baker State Park
Big Creek at 310
Santa Fe
Long Branch near 54
South Fork Salt River above 53
Savannah
Agee Creek near 414
Schell City
Osage River above 141
Sea level, definition of 25
Sediment 16
Sediment, definition of 25
Selvage Hollow near Lebanon 417
Sharps Station
Platte River at 91
Shawnee Creek above Two Rivers 380
Shelbina
North Fork Salt River near 51
Shoal Creek above Joplin 404
Shrewsbury
Mckenzie Creek near 239
Smithfield
Center Creek near 400
Smithville
Little Platte River near 90
Smithville Reservoir near 89
Smithville Reservoir near Smithville 89
Smokey Creek near Linneus 415
Sodium adsorption ratio, definition of 25
Solute, definition of 26
SOURI 2
South Creek near Springfield 331
South Dry Sac River near Springfield 147
South Fabius River near Taylor 44
South Fork Saline Creek near Perryville 297
South Fork Salt River above Santa Fe 53
South Grand River at Grand River Church 161
near Clinton 160
Spanish Lake Tributary near Black Jack 216
Special networks and programs 8

Specific conductance, definition of 26
Spencer Creek below Plum Creek
near Frankford 62
Spike samples, explanation of 19
Spring Creek near Milan 415
Spring River near Waco 399
Springfield
James River near 328
Jones Branch near 324
Pearson Creek near 326
South Creek near 331
South Dry Sac River near 147
Wilson Creek at 329
Wilson Creek near 330
Springs
Alley Spring at Alley 421
Big Spring near Van Buren 387
Blue Spring near Eminence 421
Burgermeister Spring
near Weldon Spring 67
Greer Spring at Greer 394
Maramec Spring near St. James 245
Montauk Springs at Montauk 421
Pulltite Spring near Round Spring 421
Roaring River Spring near Cassville 323
Roubidoux Spring at Waynesville 176
Round Spring at Round Spring 421
Welch Spring near Akers 421
St. Charles
Missouri River at 205
St. Francis River at Wappapello 314
near Mill Creek 307
near Patterson 311
near Saco 308
St. Francis River Basin,
hydrologic records in 307
St. Francisville
Des Moines River at 37
St. James
Maramec Spring near 245
St. Johns Ditch near Henderson Mound 315
St. Joseph
Missouri River at 83
St. Louis
Mississippi River at 225
St. Thomas
Osage River below 171
Stage, definition of 26
Stage-discharge relation, definition of 26
Station identification numbers 9
Station manuscript 11
Statistics of monthly mean data 13
Steelville
Huzzah Creek near 247
Meramec River near 246
Stockton
Sac River at Highway J below 152
Stockton Lake near 151
Stockton Lake near Stockton 151
Storys Creek above Eminence 372
Streamflow, definition of 26
Sugar Creek at Kirkwood 277
Sullivan
Meramec River near 251
Summary of hydrologic conditions 4
Summary statistics 13
Sumner
Grand River near 120
Surface area, definition of 26
Surface water--streamflow 4
Surficial bed material, definition of 26
Suspended sediment, definition of 25
Suspended sediment, mean concentration,
definition of 25
Suspended total residue at 105°C
concentration, definition of 25
Suspended, definition of 26
Recoverable, definition of 26
Total, definition of 26
Suspended-sediment concentration,
definition of 25
Suspended-sediment discharge,
definition of 25
Suspended-sediment load, definition of 25
Swan
Swan Creek near 354
Swan Creek near Swan 354
Synoptic studies, definition of 26

T

Table giving comparisons of 2000 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 2000 water year with those for
period of record for
selected stations 4
Table of water-quality blank data for
2000 water year..... 34
Table Rock Lake near Branson 344
Tables, list of vi
Tabo Creek Basin, hydrologic records in 414
Tabo Creek near Higginsville 414
Tarkio
Little Tarkio Creek near 414
Taylor
South Fabius River near 44
Tecumseh
Bryant Creek near 359
North Fork River near 356
Tenmile Creek near Poplar Bluff 419
Thebes, IL
Mississippi River at 299
Thompson River at Mount Moriah 108
at Trenton 111
Tiff City
Buffalo Creek at 411
Elk River near 408
Patterson Creek near 407
Time-weighted average, definition of 26
Tons per acre-foot, definition of 26
Tons per day, definition of 27
Total (as used in tables of chemical
analyses), definition of 27
Total coliform bacteria, definition of 21
Total discharge, definition of 27
Total load, definition of 25,27
Total recoverable, definition of 27

Total sediment discharge, definition of 25
Total sediment load, definition of 25
Total, bottom material, definition of 27
Total, definition of 27
Trenton
  Thompson River at 111
Troublesome Creek near Ewing 43
  near Lewistown 413
Troy
  Cuivre River near 63
Turbidity, definition of 27
Turkey Creek near Joplin 402
Turnback Creek above Greenfield 146
Two Rivers
  Jacks Fork above 381
  Jacks Fork above L. Shawnee Creek ab ... 383
  Jacks Fork above Powell Spring above ... 379
  Jacks Fork bl 3rd unnamed hollow ab 385
  Little Shawnee Creek above 384
  Shawnee Creek above 380

U

Union
  Bourbeuse River above 255
  Bourbeuse River at 257
Unionville
  Locust Creek near 118
University City
  River des Peres near 229
Upper Peavine Creek near Belle 418

V

Valley Park
  Fishpot Creek at 272
  Grand Glaize Creek near 278
Van Buren
  Big Spring near 387
  Current River at 386
Volatile organic compounds, definition of .. 27

W

Waco
  Spring River near 399
Walnut Creek near Novinger 415
Walnut Grove
  Little Sac River at 148
Walnut Shade
  Bull Creek near 353
Wappapello
  St. Francis River at 314
  Wappapello Lake at 312
Wappapello Lake at Wappapello 312
Warsaw
  Harry S Truman Reservoir at 164
  Osage River below
    Harry S Truman Dam at 165
Water level, definition of 27
Water Quality-Control Data 18
Water quality--streamflow 7
Water temperature 16
Water use--1995 2
Water year, definition of 27
Watkins Creek at Bellefontaine Neighbors ... 217
Waverly
  Missouri River at 103
Wayland
  Fox River at 38
Waynesville
  Roubidoux Spring at 176
WDR, definition of 27
Weighted average, definition of 27
Welch Spring near Akers 421
Weldon River at Princeton 110
Weldon Spring
  Burgermeister Spring near 67
Wellston
  Engelholm Creek near 234
West Fork Black River at Centerville 360
White River Basin, hydrologic records in ... 323
White River
  below Table Rock Dam near Branson 345
  near Branson 347
Williams Creek near Peerless Park 268
Wilson Creek at Springfield 329
  near Battlefield 334
  near Brookline 332
  near Springfield 330
WRD, definition of 28
WSP, definition of 28
Wyaconda River above Canton 40
Wyaconda River Basin,
  hydrologic records in 40

Y

Yarnell Creek at Fenton 282

Z

Zalma
  Castor River at 298

☆ U.S. GOVERNMENT PRINTING OFFICE: 2001-646-059/01037

CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
acre	4.047×10^{3}	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi^2)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^{3}	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft^3)	2.832×10^{1}	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^{3}	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second
	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
1400 Independence Road, Mail Stop 100
Rolla, MO 65401



Printed on recycled paper