

Water Resources Data Colorado Water Year 1995

Volume 1. Missouri River Basin, Arkansas River Basin,
and Rio Grande Basin

By R.M. Crowfoot, R.C. Ugland, W.S. Maura, R.D. Steger,
and G.B. O'Neill

Water-Data Report CO-95-1

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

UNITED STATES DEPARTMENT OF THE INTERIOR

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1996

CALENDAR FOR WATER YEAR 1995

1994

OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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1995

JANUARY							FEBRUARY							MARCH						
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16	17	18	19	20	21	22	20	21	22	23	24	25	26	17	18	19	20	21	22	23
23	24	25	26	27	28	29	27	28	29	30	31	24	25	26	27	28	29	30		
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PREFACE

This volume of the annual hydrologic data report of Colorado is one of a series of annual reports that document hydrologic data gathered 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 streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Colorado are contained in two volumes:

- Volume 1. Missouri River, Arkansas River, and Rio Grande basins in Colorado.
- Volume 2. Colorado River basin.

This report is the culmination of a concerted effort by dedicated 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 assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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CONTENTS

	Page
Preface	III
List of surface-water stations, in downstream order, for which records are published in this volume. . .	VI
Introduction.	1
Cooperation	4
Overview of Hydrologic Conditions	5
Precipitation.	5
Streamflow	5
Chemical quality of streamflow	11
Special networks and programs	13
Explanation of the records.	13
Station identification numbers	13
Downstream order system	13
Latitude-longitude system	14
System for numbering wells, springs, and miscellaneous sites.	14
Records of stage and water discharge	14
Data collection and computation	15
Data presentation	15
Station manuscript.	16
Data table of daily mean values	17
Statistics of monthly mean data	17
Summary statistics.	17
Identifying estimated daily discharge	18
Accuracy of the records	18
Other records available	18
Records of surface-water quality	19
Accuracy of the records	19
Classification of records	19
Arrangement of records.	19
Onsite measurements and sample collection	19
Water temperature	20
Sediment.	20
Laboratory measurements	20
Data presentation	21
Remark codes.	21
Records of ground-water quality.	21
Data collection and computation	22
Data presentation	22
Access to WATSTORE DATA	22
Definition of terms	23
Selected references	30
List of discontinued surface-water discharge or stage-only stations	32
List of discontinued surface-water-quality stations	37
Publications on techniques of water-resources investigations.	38
Surface-water records	41
Transmountain diversions	460
Transmountain diversions from Colorado River basin in Colorado.	460
Discharge at partial-record stations and miscellaneous sites.	463
Crest-stage partial-record stations.	463
Special study and miscellaneous sites.	468
Precipitation records.	469
Supplemental water-quality data for gaging stations	480
Miscellaneous water-quality in the Rio Grande basin.	492
Quality of ground-water	497
Index	503

ILLUSTRATIONS

	Page
Figures 1-2. Map showing:	
1. Locations of lakes and surface-water stations and surface-water-quality stations in Colorado	2
2. Locations of crest-stage partial-record stations in Colorado.	3
3. Comparison of monthly precipitation for water year 1995 to normal monthly precipitation for the reference period 1961-90.	6
4. Comparison of monthly discharges for water year 1995 to mean monthly discharges for the reference periods indicated on the individual graphs	8
5. Comparison of range and distribution of specific conductance measured during water year 1995 to long-term values	12

TABLES

	Page
Table 1. Precipitation during water year 1995 and departures from normal precipitation (1961-90), in inches	5
2. Peak discharges for water year 1995 and for the period of record at selected surface-water stations	10
3. Results of Wilcoxon-Mann-Whitney rank sum tests comparing mean specific conductance of discharge for water year 1995 with mean for the period of record at selected gaging stations	11

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

NOTE.--Data for partial-record stations and miscellaneous sites for both surface-water discharge and quality are published in separate sections of the data report.

(Letter after station name designates type and frequency of published data. Daily tables: (D) discharge, (C) specific conductance, (S) sediment, (T) temperature, (E) elevation or contents, (O) dissolved oxygen, (P) pH, (R) precipitation.

Periodic tables: (c) chemical, (b) biological, (e) elevation or contents, (m) microbiological, (s) sediment, (t) temperature.)

	Station number	Page
MISSOURI RIVER BASIN		
Missouri River:		
PLATTE RIVER BASIN		
North Platte River:		
Michigan River near Cameron Pass (D)	06614800	41
North Platte River near Northgate (D) . . . . .	.06620000	42
South Platte River:		
South Platte River above Elevenmile Canyon Reservoir, near Hartsel (D). . . . .	.06695000	43
South Platte River near Lake George (D) . . . . .	.06696000	44
Tarryall Creek below Rock Creek, near Jefferson (D). . . . .	.06699005	45
Reservoirs in South Platte River basin (e)		46
South Platte River below Cheesman Lake (D). . . . .	.06701500	47
Duck Creek near Grant (DCTR) . . . . .	.06704500	48
Geneva Creek at Grant (DCTR) . . . . .	.06705500	52
North Fork South Platte River below Geneva Creek, at Grant (D) . . . . .	.06706000	56
Plum Creek near Sedalia (D). . . . .	.06709000	57
Plum Creek at Titan Road, near Louviers (D). . . . .	.06709530	58
Chatfield Lake near Littleton (e) . . . . .	.06709600	59
South Platte River at Union Avenue, at Englewood (D). . . . .	.06710245	60
Bear Creek above Evergreen (D) . . . . .	.06710385	61
Bear Creek at Morrison (D) . . . . .	.06710500	62
Bear Creek above Bear Creek Lake near Morrison (D) . . . . .	.06710605	63
Bear Creek at mouth, at Sheridan (D) . . . . .	.06711500	64
Little Dry Creek at Greenwood Village (D). . . . .	.06711545	65
South Platte River at Englewood (DTPCO) . . . . .	.06711565	67
Cherry Creek near Franktown (D). . . . .	.06712000	72
Cherry Creek near Parker (D)	393109104464500	73
Cherry Creek Lake near Denver (e). . . . .	.06712990	74
Cherry Creek below Cherry Creek Lake (D) . . . . .	.06713000	75
Cherry Creek at Glendale (D) . . . . .	.06713300	76
Cherry Creek at Denver (Dcst). . . . .	.06713500	77
South Platte River at Denver (Dcst) . . . . .	.06714000	80
South Platte River at 64th Avenue at Commerce City (D). . . . .	.06714215	83
Clear Creek near Loveland Pass (D)	394115105525600	84
South Clear Creek above Lower Cabin Creek Reservoir near Georgetown (DCTR). . . . .	.06714400	85
South Clear Creek above Leavenworth Creek near Georgetown (DCTR). . . . .	.06714600	89
Leavenworth Creek at mouth near Georgetown (DCTR). . . . .	.06714800	93
Clear Creek above West Fork Clear Creek near Empire (D). . . . .	.06715000	97
West Fork Clear Creek above mouth near Empire (D) . . . . .	.06716100	98
Clear Creek near Lawson (D). . . . .	.06716500	99
Chicago Creek below Devils Canyon near Idaho Springs (D). . . . .	.06717400	100
Clear Creek above Johnson Gulch near Idaho Springs (D) . . . . .	.06718300	101
North Clear Creek above mouth near Blackhawk (D). . . . .	.06718550	102
Sand Creek at mouth near Commerce City (D)	394839104570300	103
Clear Creek at Golden (DTCcts) . . . . .	.06719505	104
South Platte River at Henderson (Dcst). . . . .	.06720500	109
Big Dry Creek at Westminster (D) . . . . .	.06720820	113
Big Dry Creek at mouth near Fort Lupton (D). . . . .	.06720990	114
North St. Vrain Creek near Allens Park (D) . . . . .	.06721500	115
St. Vrain Creek at Lyons (D) . . . . .	.06724000	116
St. Vrain Creek below Longmont (D) . . . . .	.06725450	117
Boulder Creek:		
Middle Boulder Creek (head of Boulder Creek) at Nederland (D). . . . .	.06725500	118
Bummers Gulch near El Vado (D). . . . .	.06726900	119
Boulder Creek near Orodell (D). . . . .	.06727000	120
Fourmile Creek at Orodell (D). . . . .	.06727500	121
South Boulder Creek near Eldorado Springs (D). . . . .	.06729500	122
Boulder Creek at North 75th Street near Boulder (D) . . . . .	.06730200	123
Boulder Creek at mouth near Longmont (D). . . . .	.06730500	124
St Vrain Creek at mouth, near Platteville (Dcts) . . . . .	.06731000	125
Big Thompson River at Estes Park (D) . . . . .	.06733000	128
Olympus Tunnel at Lake Estes (ct) . . . . .	.06734900	129
Big Thompson River near Estes Park (D) . . . . .	.06735500	130
Horsetooth Reservoir near Fort Collins (etcb) . . . . .	.06737500	131
Horsetooth Reservoir near Fort Collins (tcmb)	403147105083800	134
Big Thompson River at mouth of Canyon, near Drake (D). . . . .	.06738000	136
Big Thompson River at Loveland (Dtc) . . . . .	.06741510	137
Carter Lake near Berthoud (etcmb) . . . . .	.06742500	140

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

	Station number	Page
Missouri River--Continued		
PLATTE RIVER BASIN--Continued		
South Platte River--Continued		
Cache la Poudre River:		
Joe Wright Creek above Joe Wright Reservoir (D)	06746095	143
Joe Wright Creek below Joe Wright Reservoir (D)	06746110	144
North Fork Cache la Poudre River at Livermore (Dcts)	06751490	145
Cache la Poudre River at mouth of Canyon, near Fort Collins (Dcts)	06752000	149
Cache la Poudre River at Shields Street at Fort Collins (ct)	06752258	152
Cache la Poudre River at Fort Collins (DctCTP)	06752260	154
Cache la Poudre River below Fort Collins (ct)	06752270	160
Cache la Poudre River above Box Elder Creek, near Timnath (Dct)	06752280	162
Cache la Poudre River near Greeley (D)	06752500	165
Lonetree Creek at Carr (Dcts)	06753400	166
Lonetree Creek near Greeley (Dcts)	06753990	169
South Platte River near Kersey (Dcts)	06754000	172
South Platte River near Weldona (Dctm)	06758500	175
South Platte River at Cooper Bridge, near Balzac (Dcts)	06759910	177
South Platte River at Julesburg (Dctms)	06764000	180
KANSAS RIVER BASIN		
Arikaree River (head of Kansas River):		
North Fork Republican River at Colorado-Nebraska State line (D)	06823000	183
Republican River (continuation of Arikaree River):		
South Fork Republican River:		
Bonny Reservoir near Hale (E)	06826000	184
LOWER MISSISSIPPI RIVER BASIN		
Mississippi River:		
ARKANSAS RIVER BASIN		
Arkansas River:		
East Fork Arkansas River at Highway 24 near Leadville (DCPT)	07079300	185
St. Kevin Gulch above Temple Gulch near Leadville (D)	07080980	191
Arkansas River near Leadville (DCPT)	07081200	192
Lake Fork:		
Turquoise Lake near Leadville (e)	07082400	198
Halfmoon Creek near Malta (DctmsR)	07083000	199
Lake Creek above Twin Lakes Reservoir (D)	07084500	204
Arkansas River at Granite (DCT)	07086000	205
Clear Creek above Clear Creek Reservoir (D)	07086500	210
Arkansas River near Nathrop (D)	07091200	211
Arkansas River near Wellsville (D)	07093700	212
Badger Creek, Upper Station, near Howard (DT)	07093740	213
Badger Creek, Lower Station, near Howard (DT)	07093775	216
Arkansas River at Parkdale (D)	07094500	219
Grape Creek near Westcliffe (D)	07095000	220
Arkansas River at Canon City (DCT)	07096000	221
Fourmile Creek below Cripple Creek near Victor (D)	07096250	226
Fourmile Creek near Canon City (D)	07096500	227
Arkansas River at Portland (DctmsCT)	07097000	228
Beaver Creek above Upper Beaver Cemetery near Penrose (D)	07099050	234
Beaver Creek above Highway 115 near Penrose (D)	07099060	235
Turkey Creek near Fountain (D)	07099215	236
Turkey Creek above Teller Reservoir, near Stone City (D)	07099230	237
Teller Reservoir near Stone City (E)	07099233	238
Turkey Creek near Stone City (D)	07099235	239
Pueblo Reservoir near Pueblo (e)	07099350	240
Arkansas River above Pueblo (DCT)	07099400	251
Arkansas River at St Charles Mesa Diversion at Pueblo (C)	07099969	256
Arkansas River at Moffat Street, at Pueblo (DCT)	07099970	258
Fountain Creek near Colorado Springs (Dctsm)	07103700	262
Camp Creek at Garden of the Gods (D)	07103703	266
Monument Creek at Palmer Lake (ctm)	07103747	267
Monument Creek above North Gate Boulevard, at U.S. Air Force Academy (Dctm)	07103780	269
West Monument Creek below Rampart Reservoir (D)	07103797	272
West Monument Creek at U.S. Air Force Academy (D)	07103800	273
Cottonwood Creek at Woodmen Road near Colorado Springs (D)	07103980	274
Cottonwood Creek at mouth at Pikeview (D)	07103990	275
Monument Creek at Pikeview (Dctms)	07104000	276
Monument Creek at Bijou Street, at Colorado Springs (ctm)	07104905	280
Bear Creek near Colorado Springs (D)	07105000	282
Cheyenne Creek at Evans Avenue at Colorado Springs (D)	07105490	283
Fountain Creek at Colorado Springs (Dctms)	07105500	284
Fountain Creek below Janitell Road, below Colorado Springs (DctmCPTO)	07105530	288
Fountain Creek at Circle Drive below Colorado Springs (ctm)	07105533	298
Fountain Creek at Security (DsCPTO)	07105800	300
Jimmy Camp Creek at Fountain (D)	07105900	308
Fountain Creek above Little Fountain Creek, below Fountain (ctm)	07105905	309

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

	Station number	Page
Mississippi River--Continued		
ARKANSAS RIVER BASIN--Continued		
Arkansas River--Continued		
Fountain Creek--Continued		
Little Fountain Creek above Keaton Reservoir near Fort Carson (D) . . . . .	.07105920	311
Little Fountain Creek near Fort Carson (D) . . . . .	.07105928	312
Rock Creek above Fort Carson Reservation (D) . . . . .	.07105945	313
Rock Creek near Fort Carson (D) . . . . .	.07105950	314
Fountain Creek near Fountain (DCPTO) . . . . .	.07106000	315
Fountain Creek near Pinon (Dctm) . . . . .	.07106300	323
Fountain Creek at Pueblo (DctmCT) . . . . .	.07106500	326
St. Charles River at Vineland (D) . . . . .	.07108900	331
Arkansas River near Avondale (DCPTO) . . . . .	.07109500	332
Huerfano River near Boone (D) . . . . .	.07116500	340
Arkansas River near Nepesta (D) . . . . .	.07117000	341
Apishapa River near Fowler (D) . . . . .	.07119500	342
Arkansas River at Catlin Dam, near Fowler (DCT) . . . . .	.07119700	343
Timpas Creek at mouth, near Swink (D) . . . . .	.07121500	348
Arkansas River at La Junta (D) . . . . .	.07123000	349
Arkansas River at Las Animas (DCT) . . . . .	.07124000	350
Purgatoire River at Madrid (D) . . . . .	.07124200	355
Trinidad Lake near Trinidad (E) . . . . .	.07124400	356
Purgatoire River below Trinidad Lake (D) . . . . .	.07124410	357
Van Bremer Arroyo near Tyrone (DCTR) . . . . .	.07126140	358
Van Bremer Arroyo near Model (DCTR) . . . . .	.07126200	364
Purgatoire River near Thatcher (DCTS) . . . . .	.07126300	370
Taylor Arroyo below Rock Crossing near Thatcher (DCTS) . . . . .	.07126325	375
Purgatoire River at Rock Crossing, near Timpas (Ds) . . . . .	.07126485	382
Purgatoire River at Ninemile Dam, near Higbee (D) . . . . .	.07126500	383
Purgatoire River near Las Animas (DCT) . . . . .	.07128500	384
John Martin Reservoir at Caddoa (E) . . . . .	.07130000	389
Arkansas River below John Martin Reservoir (DCT) . . . . .	.07130500	390
Arkansas River at Lamar (D) . . . . .	.07133000	395
Big Sandy Creek near Lamar (D) . . . . .	.07134100	396
Arkansas River near Granada (D) . . . . .	.07134180	397
Wild Horse Creek above Holly (D) . . . . .	.07134990	398
Two Butte Creek near Holly (D) . . . . .	.07135000	399
Frontier ditch near Coolidge, KS (D) . . . . .	.07137000	400
Arkansas River near Coolidge, KS (Dcmts) . . . . .	.07137500	401

WESTERN GULF OF MEXICO BASINS

RIO GRANDE BASIN

Rio Grande at Thirtymile Bridge, near Creede (D) . . . . .	.08213500	404
North Clear Creek below Continental Reservoir (D) . . . . .	.08214500	405
Rio Grande at Wagon Wheel Gap (D) . . . . .	.08217500	406
South Fork Rio Grande at South Fork (D) . . . . .	.08219500	407
Rio Grande near Del Norte (Dcts) . . . . .	.08220000	408
Rio Grande at Alamosa (D) . . . . .	.08223000	413
Saguache Creek near Saguache (Dcts) . . . . .	.08227000	414
Alamosa River above Wightman Fork near Jasper (DCPT) . . . . .	.08235250	419
Wightman Fork below Cropsey Creek at Summitville (DCPT) . . . . .	.08235270	422
Wightman Fork at mouth near Jasper (DCPT) . . . . .	.08235290	425
Alamosa River above Jasper (D) . . . . .	.08235350	428
Alamosa River below Castleman Gulch near Jasper (DCPT) . . . . .	.08235700	429
Alamosa River above Terrace Reservoir (CPT) . . . . .	.08236000	432
Alamosa River below Terrace Reservoir (CPT) . . . . .	.08236500	437
Rio Grande above mouth of Trinchera Creek, near Lasausas (Dcts) . . . . .	.08240000	439
Conejos River:		
Platoro Reservoir at Platoro (e) . . . . .	.08244500	444
Conejos River below Platoro Reservoir (D) . . . . .	.08245000	445
Conejos River near Mogote (D) . . . . .	.08246500	446
San Antonio River at Ortiz (D) . . . . .	.08247500	447
Los Pinos River near Ortiz (D) . . . . .	.08248000	448
Conejos River near Lasausas (Dcts) . . . . .	.08249000	449
Rio Grande near Lobatos (Dcts) . . . . .	.08251500	454

WATER RESOURCES DATA - COLORADO, 1995
VOLUME 1: MISSOURI RIVER, ARKANSAS RIVER, AND RIO GRANDE BASINS

By R. M. Crowfoot, R. C. Ugland, W. S. Maura, R. D. Steger, and G. B. O'Neill

INTRODUCTION

The Water-Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Colorado each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in the report series entitled "Water Resources Data - Colorado".

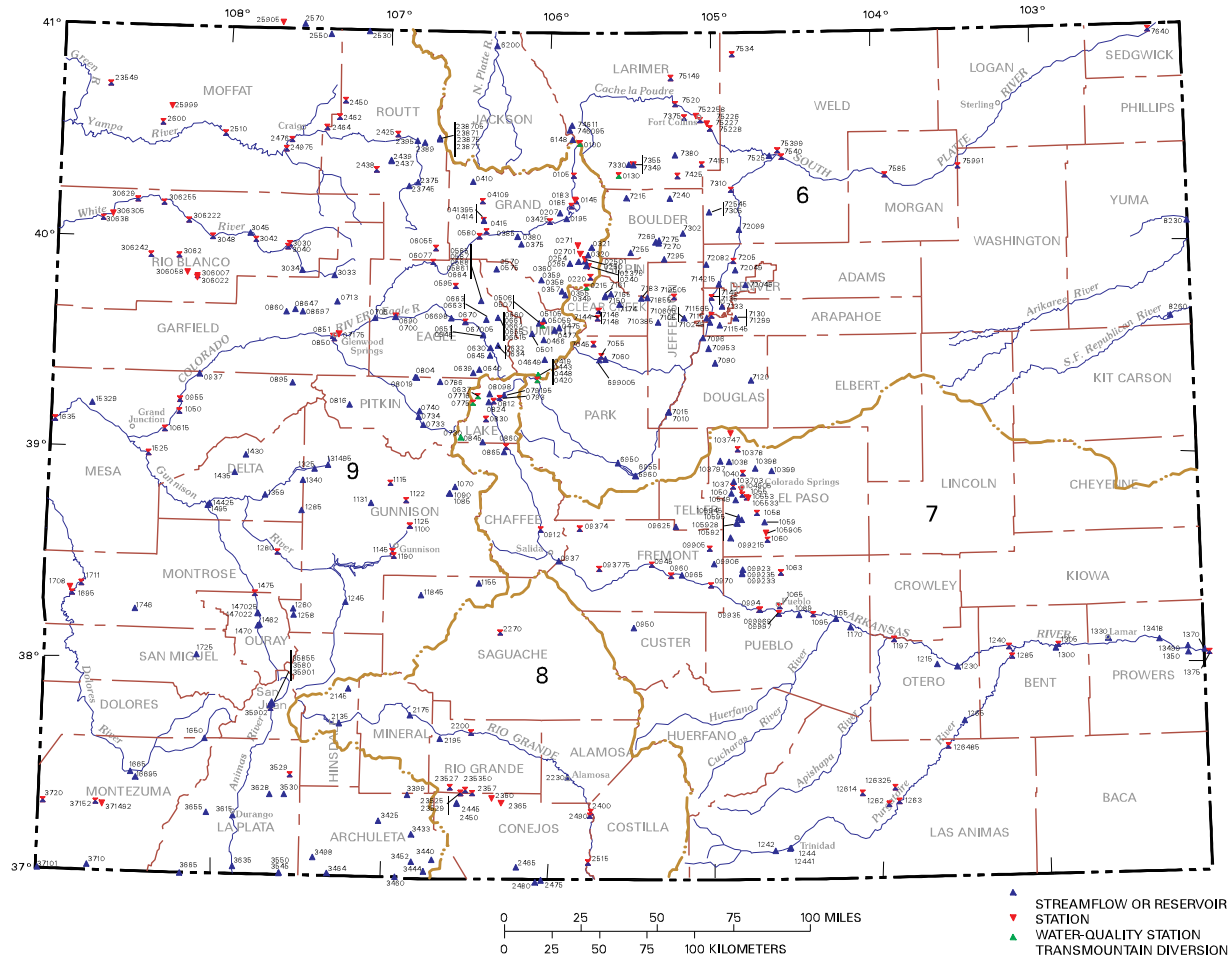
This report (Volume 1 of two volumes) includes records on both surface and ground water in the State, east of the Continental Divide. Specifically, it contains: (1) discharge records for 159 surface-water stations, and peak discharges for 32 partial-record surface-water stations; (2) stage and contents for 13 lakes and reservoirs; (3) water-quality data for 70 surface-water stations, 3 reservoirs, 15 wells, and miscellaneous surface-water-quality data for 69 gaged sites, 1 miscellaneous site, and meteorological data for 19 sites. Locations of lake and surface-water stations and surface-water-quality stations are shown in figure 1, locations of crest-stage partial-record stations are shown in figure 2. Four pertinent stations operated by bordering States also are included in this report. The data in this report represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Colorado.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Colorado were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-water Supply of the United States," Parts 6B, 7, 8, and 9. For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States." Data on ground-water levels for the 1935 through 1955 water years were published annually under the title "Water Levels and Artesian Pressures in Observation Wells in the United States." For the 1956 through 1974 water years the data were published in four 5-year reports under the title "Ground-Water Levels in the United States." Water-supply papers may be purchased from the, U.S. Geological Survey, Books and Open-File Reports, Federal Center, Building 810, Box 25425, Denver, CO 80225.

For water years 1961 through 1970, surface-water data were released by the Survey in annual reports on a State-boundary basis. surface-water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with surface-water records.

Beginning with the 1971 water year, water data on surface-water, water quality, and ground-water are published in official Survey reports on a State-boundary basis. These official Survey 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 CO-95-1." These water-data reports are for sale, in paper copy or in micro-fiche, 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 the back of the title page or by telephone (303) 236-4882.



Base from U.S. Geological Survey
 1:100,000 Digital Line Graphs
 Lambert projection
 Standard Parallels 33° and 45°

Figure 1.--Map showing locations of lakes and surface-water stations and surface-water-quality stations in Colorado.

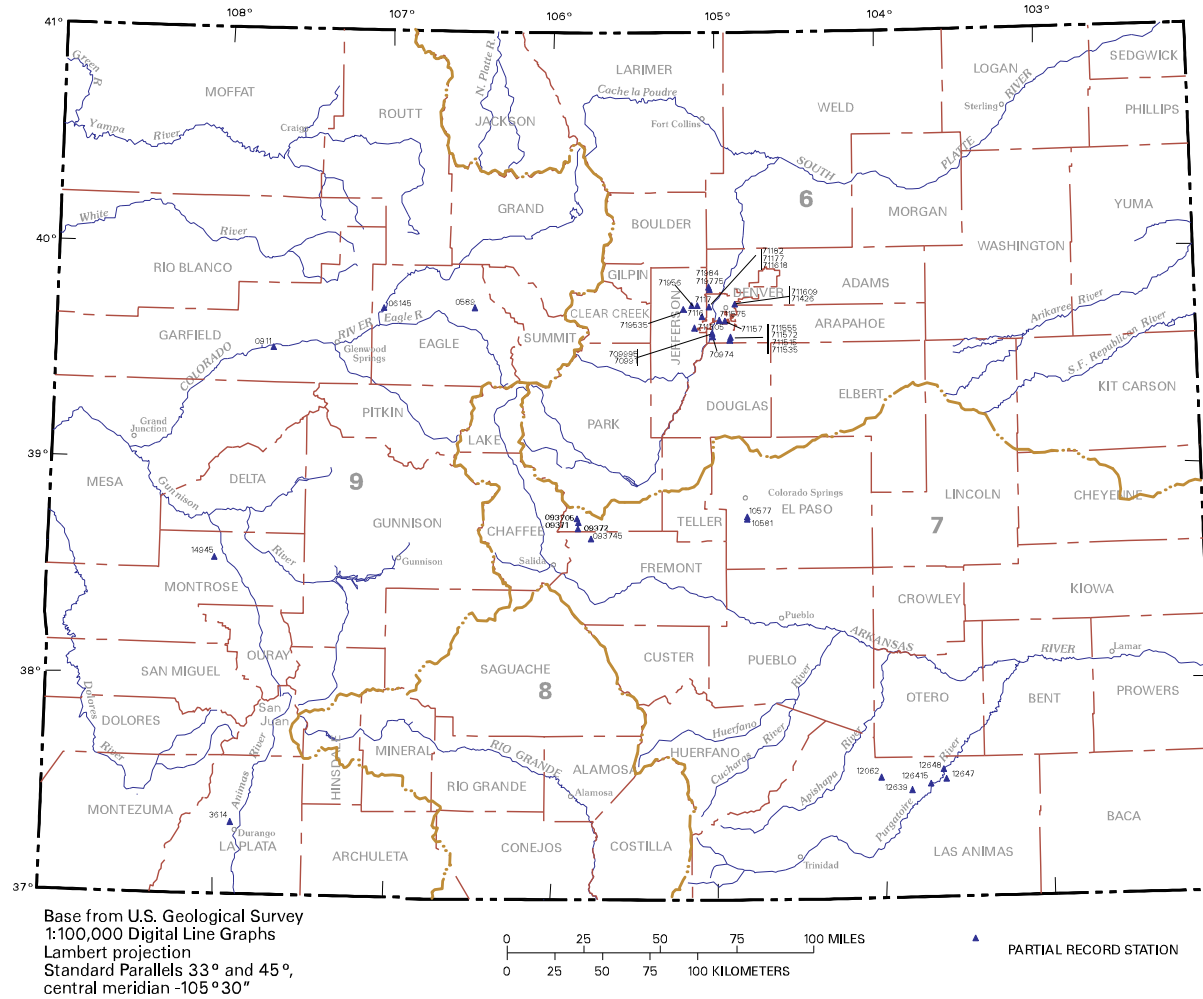


Figure 2.--Map showing locations of crest-stage partial record stations in Colorado.

COOPERATION

The U.S. Geological Survey and organizations of the State of Colorado have had cooperative agreements for the systematic collection of surface-water records since 1895 and for water-quality records since 1941. Organizations that assisted in collecting data for this report through cooperative agreement with the Survey are:

Arapahoe County, Water and Wastewater Authority.
 Arkansas River Compact Administration.
 Centennial Water and Sanitation District.
 Center Soil Conservation District.
 Cherokee Metropolitan District.
 City and County of Denver, Board of Water Commissioners.
 City of Aurora.
 City of Black Hawk.
 City of Boulder.
 City of Colorado Springs.
 City of Durango.
 City of Englewood.
 City of Fort Collins.
 City of Glendale.
 City of Glenwood Springs.
 City of Greenwood Village.
 City of Gunnison.
 City of Lakewood.
 City of Lamar.
 City of Las Animas.
 City of Longmont.
 City of Loveland.
 City of Pueblo.
 City of Rocky Ford.
 City of Steamboat Springs.
 Clear Creek Board of County Commissioners.
 Colorado Department of Public Health and Environment.
 Colorado Department of Transportation.
 Colorado Division of Parks and Outdoor Recreation.
 Colorado Division of Water Resources.
 Colorado Division of Wildlife.
 Colorado River Water Conservation District.
 Colorado Springs Department of Public Utilities.
 Crested Butte South Metropolitan District.
 Delta County Board of County Commissioners.
 Eagle County Board of Commissioners.
 East Grand County Water-Quality Board.
 Evergreen Metropolitan District.
 Fountain Valley Authority.
 Fraser Sanitation District.
 Fremont Sanitation District.
 Garfield County.
 Grand County Water and Sanitation District.
 Gunnison County
 La Plata County.
 Littleton-Englewood Bi-City.
 Lower Fountain Water-Quality Management Association.
 Meeker Sanitation District
 Metro Wastewater Reclamation District.
 Moffat County.
 Mount Crested Butte Water and Sanitation District.
 Northern Colorado Water Conservancy District.
 Northwest Colorado Council of Governments.
 Pueblo Board of Water Works.
 Pueblo County.
 Pueblo West Metro Water District.
 Purgatoire River Water Conservancy District.
 Rio Blanco County Board of County Commissioners.
 Rio Blanco Water Conservancy District.
 Rio Grande Water Conservation District.
 Routt County.
 Southeastern Colorado Water Conservancy District.
 Southern Ute Indian Tribe.
 Southwestern Colorado Water Conservation District.
 St. Charles Mesa Water District.
 Summit County.
 Teller - Park Soil Conservation District.
 Town of Breckenridge.
 Town of Crested Butte.
 Town of Meeker.
 Town of Rangely.
 Town of Vail.
 Trinchera Water Conservancy District.
 Uncompahgre Valley Water Users Association.
 Upper Arkansas Council of Governments.
 Upper Arkansas River Water Conservancy District.
 Upper Eagle Regional Water Authority.
 Upper Gunnison River Water Conservancy District.
 Upper Yampa Water Conservancy District.
 Urban Drainage and Flood Control District.
 Vail Valley Consolidated Water Authority.
 Winter Park Water and Sanitation District.
 Yellowjacket Water Conservancy District.

Financial assistance was also provided by the U.S. Army, Corps of Engineers; U.S. Army; U.S. Air Force; Bureau of Land Management, Bureau of Reclamation, National Park Service, U.S. Fish and Wildlife Service, and U.S. Environmental Protection Agency. Organizations that supplied data are acknowledged in station descriptions.

OVERVIEW OF HYDROLOGIC CONDITIONS
[East of the Continental Divide]

Prepared by G.F. Ritz and M.E. Smith

Precipitation

Precipitation data for water year 1995 were obtained from published reports of the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, for the four National Weather Service divisions in Colorado that are east of the Continental Divide (table 1). Precipitation and departures-from-normal precipitation (1961-90) are listed for the first 6 months of the water year when precipitation is predominately snow and for the remaining 6 months when precipitation is predominately rain. Also listed are the precipitation and departures-from-normal precipitation for the entire water year.

For October-March, precipitation was 83 percent greater than normal in the Kansas Drainage Basin and 10 percent greater than normal in the Platte Drainage Basin. Precipitation was 17 percent greater than normal in the Arkansas Drainage Basin and 48 percent greater than normal in the Rio Grande Drainage Basin. For April-September, precipitation was 36 percent greater than normal in the Kansas Drainage Basin and 52 percent greater than normal in the Platte Drainage Basin. Precipitation was 39 percent greater than normal in the Arkansas Drainage Basin and 28 percent greater than normal in the Rio Grande Drainage Basin.

Graphs of monthly precipitation for the water year and for normal monthly precipitation, at selected weather stations, are shown in figure 3. Monthly precipitation data for water year 1995 were supplemented with ancillary information obtained from the Colorado State University, Department of Atmospheric Science, Colorado Climate Center, in Fort Collins.

Table 1.--Precipitation during water year 1995 and departures-from-normal precipitation (1961-90), in inches

National Weather Service division	October-March		April-September		Water year 1995	
	Precipitation	Departure from normal	Precipitation	Departure from normal	Precipitation	Departure from normal
Arkansas Drainage Basin	4.73	0.69	14.71	4.14	19.44	4.83
Kansas Drainage Basin	6.15	2.79	18.05	4.80	24.20	7.59
Platte Drainage Basin	4.93	0.43	17.11	5.84	22.04	6.27
Rio Grande Drainage Basin	7.98	2.58	9.91	2.15	17.89	4.73

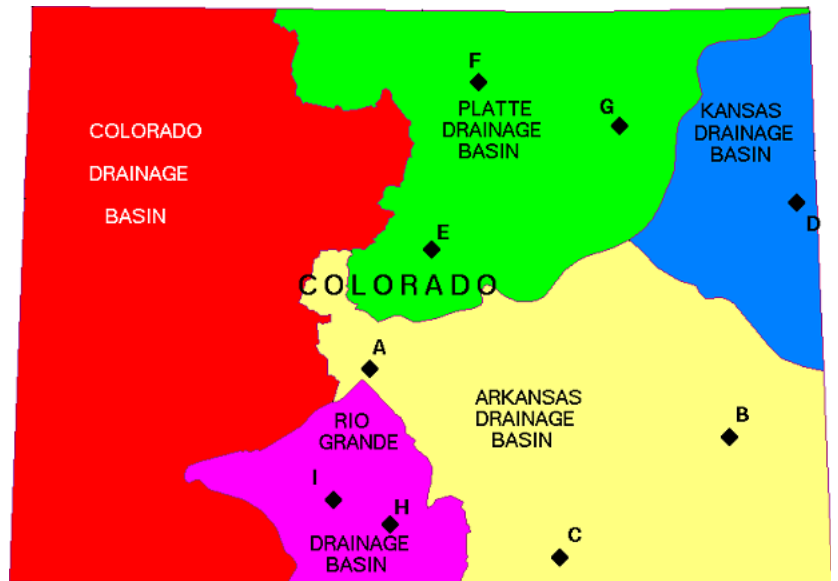
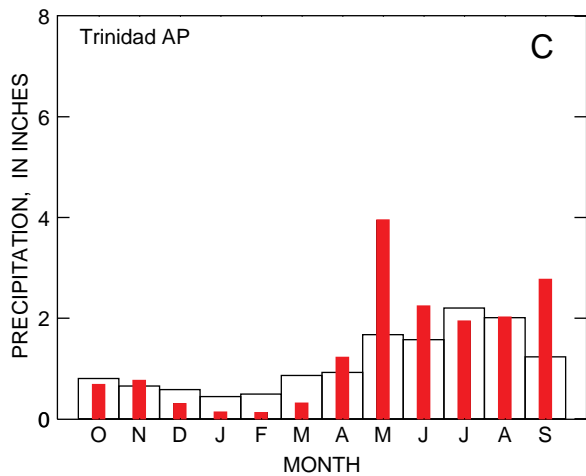
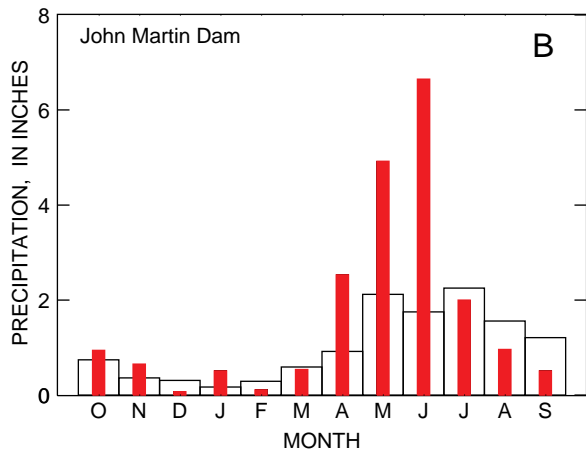
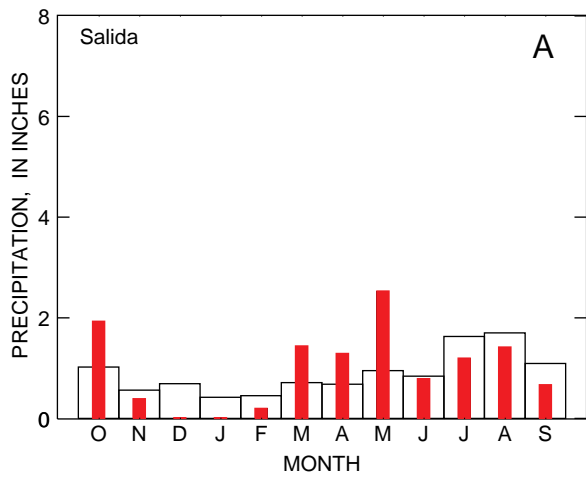
Streamflow

Monthly mean discharges during water year 1995 at selected streamflow-gaging stations are compared to long-term (reference period to previous water year) mean monthly discharges in figure 4. Individual graphs show the varied streamflow east of the Continental Divide during the water year. The long-term mean monthly discharges used for gaging station 06706000, North Fork South Platte River below Geneva Creek, at Grant (fig. 4, site B), do not include records prior to water year 1964 (the year that imported water from the Colorado River Basin began flowing past the gaging station). Gaging station 07094500, Arkansas River at Parkdale (fig. 4, site D), was operated seasonally (April-September) in water year 1995.

The graphs for gaging stations 06701500, South Platte River below Cheesman Lake (fig. 4, site A); 06706000, North Fork South Platte River below Geneva Creek, at Grant (fig. 4, site B), and 06758500, South Platte River near Weldona (fig. 4, site C), indicate that monthly mean discharges for water year 1995 did not follow the general trend of long-term mean monthly discharges. Local water-management practices, which consisted mostly of storage, release, or diversion of water as determined by daily and seasonal irrigation and municipal needs, affected the trends in the three discharge graphs. The water year 1995 mean discharge at gaging station 06701500, South Platte River below Cheesman Lake, was 114 percent greater than the long-term average. The water year 1995 mean discharge at gaging station 06706000, North Fork South Platte River below Geneva Creek, at Grant, was 37 percent greater than the long-term average. The water year 1995 mean discharge at gaging station 06758500, South Platte River near Weldona, was 173 percent greater than the long-term mean.

The graph for gaging station 07094500, Arkansas River at Parkdale (fig. 4, site D), indicates that monthly mean discharges for April through September of water year 1995 had a general trend similar to the long-term mean monthly discharges; however, the July mean discharge was higher than the June mean discharge in water year 1995, in contrast to the long-term trend for those months. The graphs for gaging stations 07126300, Purgatoire River near Thatcher (fig. 4, site E), and 07133000, Arkansas River at Lamar (fig. 4, site F), indicate that monthly mean discharges for water year 1995 did not follow the general trend of long-term mean monthly discharges. The trends in the three graphs were affected by local water-management practices, which consisted mostly of storage and release of water as determined by daily and seasonal irrigation and municipal needs. The April through September 1995 mean discharge at gaging station 07094500, Arkansas River at Parkdale, was 72 percent greater than the April through September long-term average. The water year 1995 mean discharge at gaging station 07126300, Purgatoire River near Thatcher, was 3 percent less than the long-term average. The water year 1995 mean discharge at gaging station 07133000, Arkansas River at Lamar, was 159 percent greater than the long-term average.

The graph for gaging station 08217500, Rio Grande at Wagon Wheel Gap (fig. 4, site G), indicates that monthly mean discharges for water year 1995 had a general trend similar to the long-term mean monthly discharges. The graph for gaging station 08251500, Rio Grande near Lobatos (fig. 4, site H), indicates that monthly mean discharges for water year 1995 did not follow the general trend of long-term mean monthly discharges. The trends in the two discharge graphs were affected by local water-management practices, which consisted mostly of storage, release, and diversion of water as determined by daily and seasonal irrigation needs. The water year 1995 mean discharge at gaging station 08217500, Rio Grande at Wagon Wheel Gap, was 39 percent greater than the long-term average. The water year 1995 mean discharge at gaging station 08251500, Rio Grande near Lobatos, was 28 percent greater than the long-term average.



- EXPLANATION**
- Normal monthly precipitation for reference period
 - Monthly precipitation for water year 1995
 - ◆ WEATHER STATION--Letter refers to accompanying graph and map

Figure 3.--Comparison of monthly precipitation for water year 1995 to normal monthly precipitation for the reference period 1961-90.

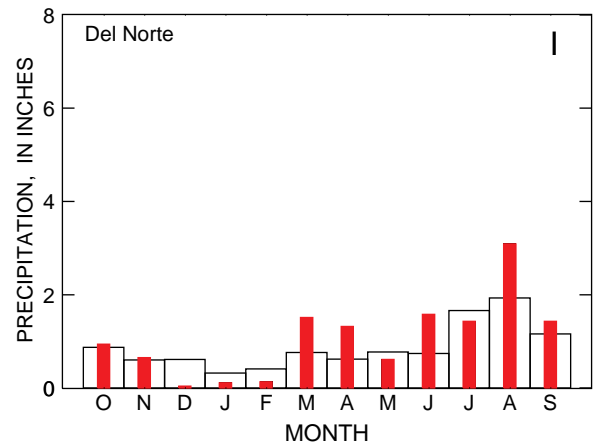
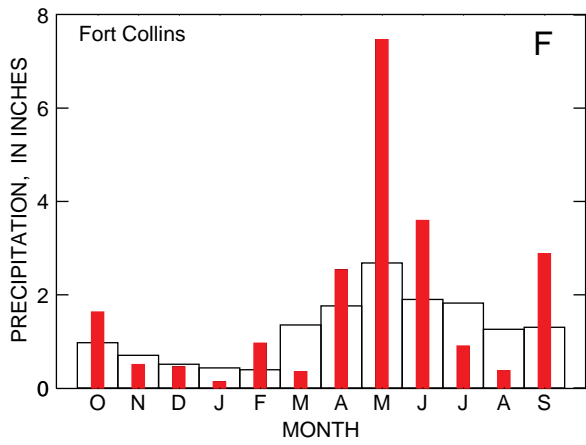
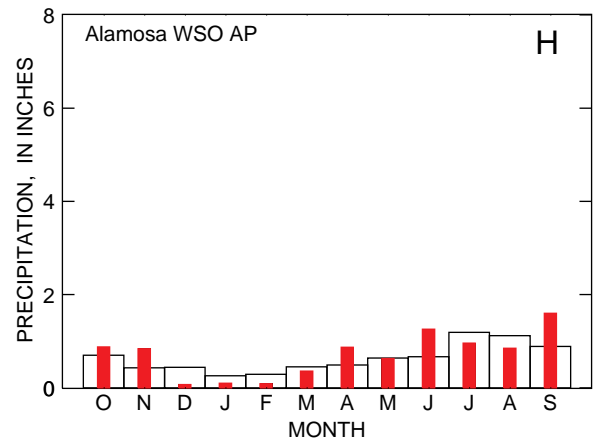
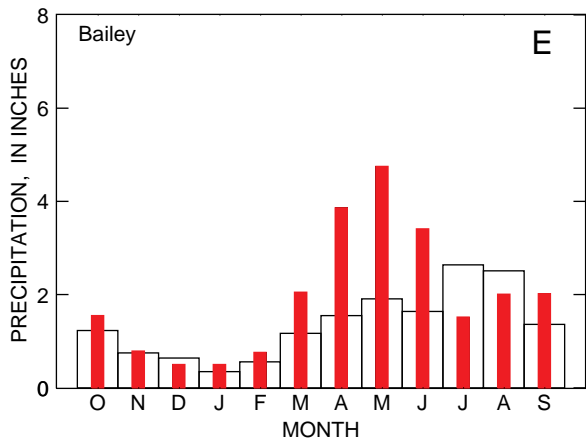
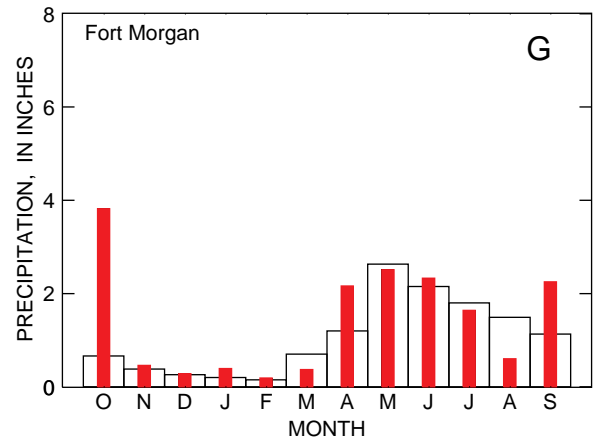
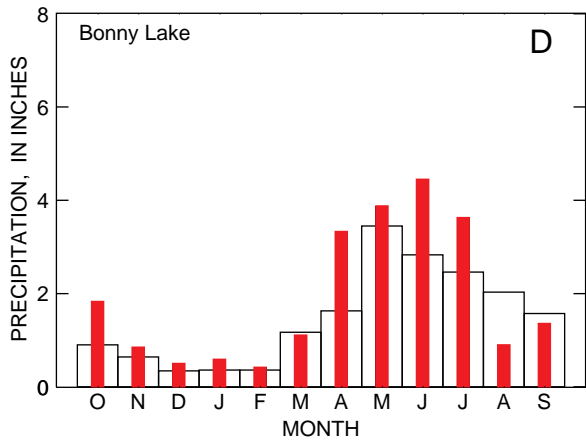


Figure 3.--(continued).

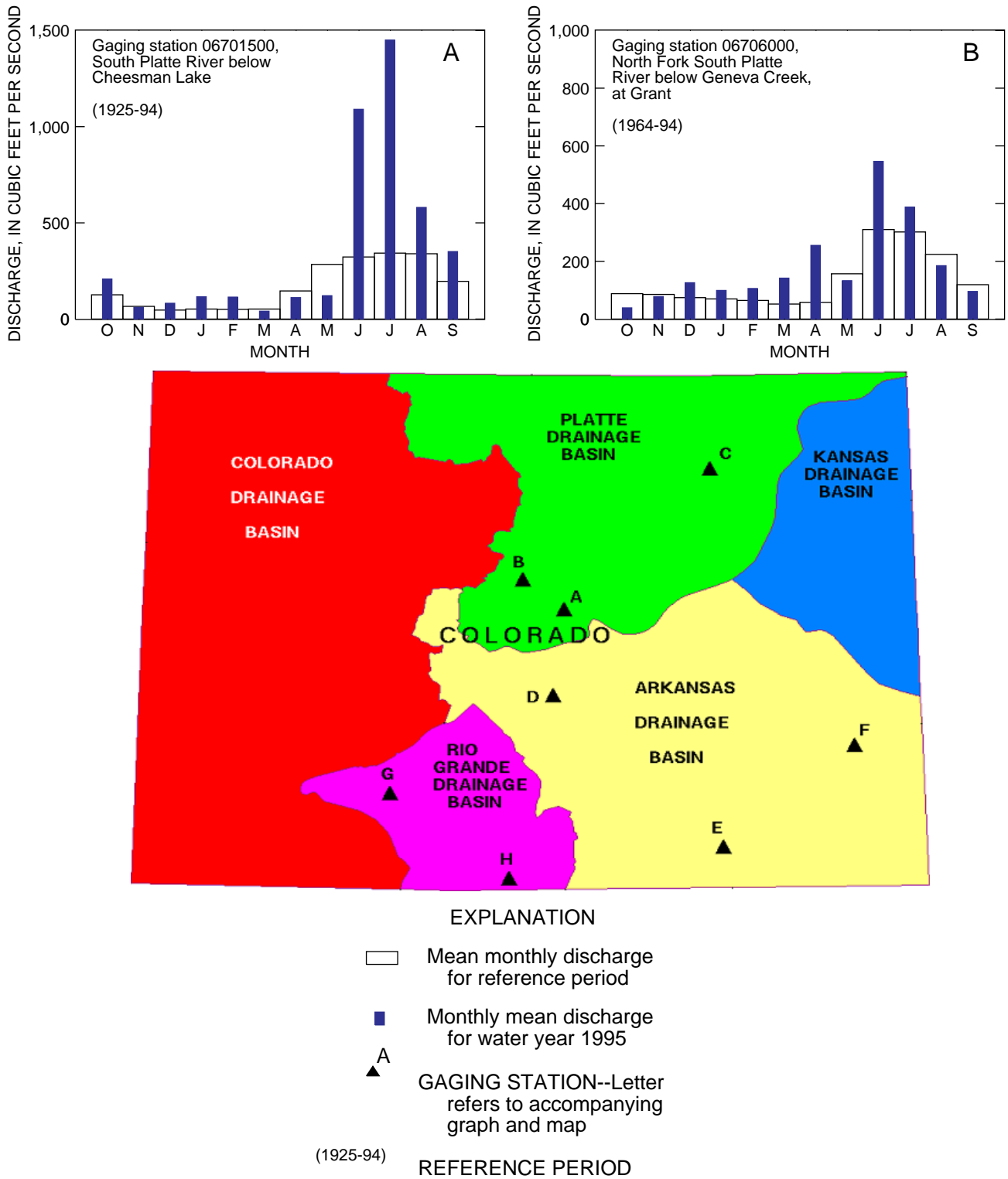


Figure 4.--Comparison of monthly discharges for water year 1995 to mean monthly discharges for the reference periods indicated on the individual graphs.

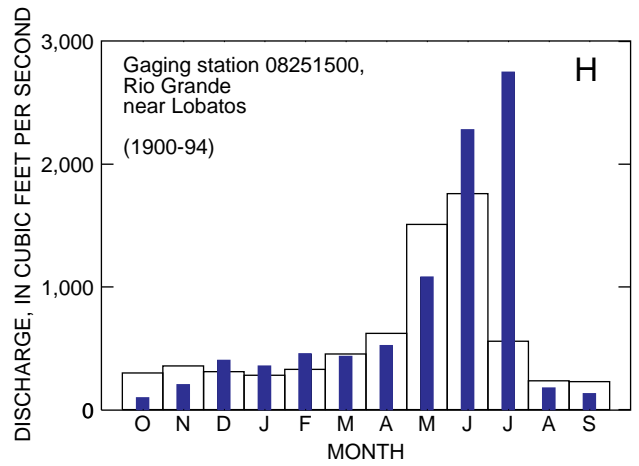
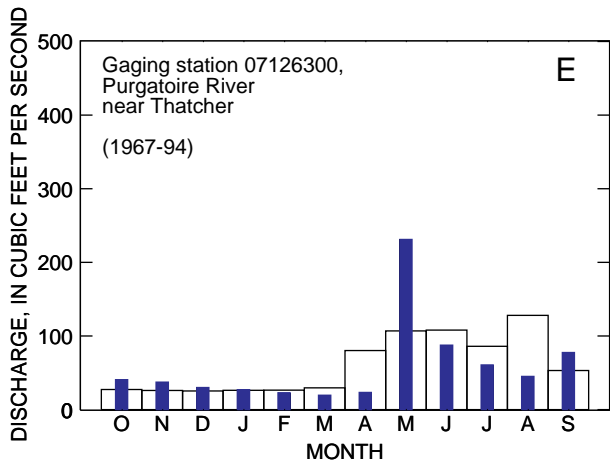
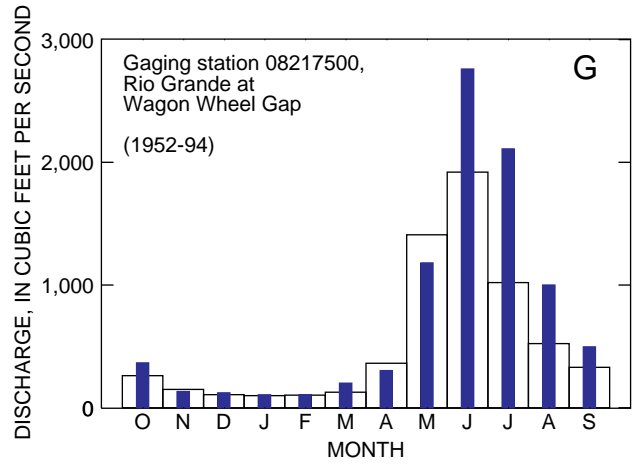
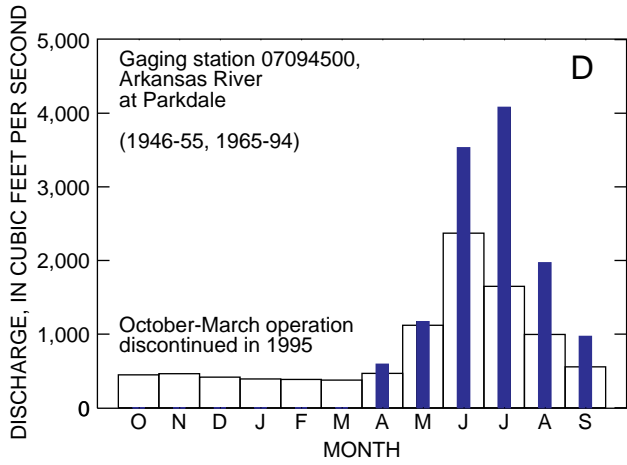
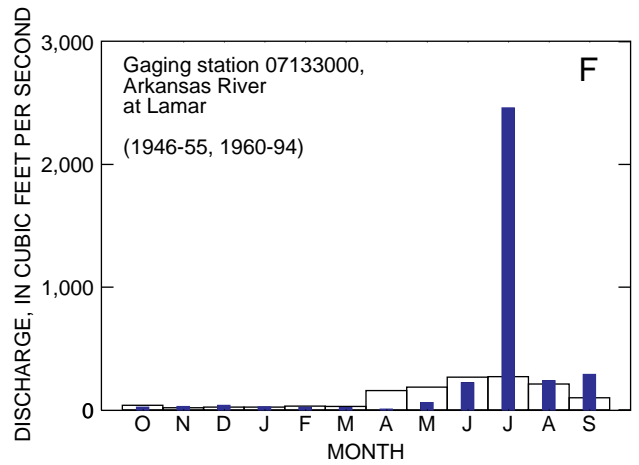
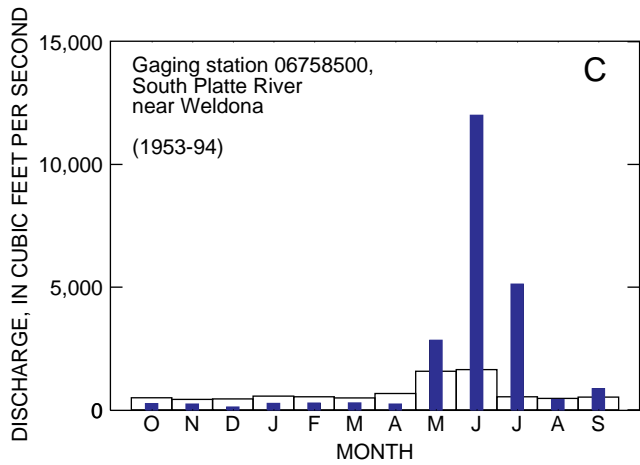


Figure 4.-- (continued).

Peak discharges during water year 1995 and for the period of record (to previous water year) for selected gaging stations are listed in table 2. The water year 1995 peak discharges at gaging stations 06706000, North Fork South Platte River below Geneva Creek, at Grant, and 07094500, Arkansas River at Parkdale, were higher than any previously recorded peak discharge. High peak discharges also occurred at gaging stations 06696000, South Platte River near Lake George (2nd highest); 06752500, Cache La Poudre River near Greeley (3d highest); 06701500, South Platte River below Cheesman Lake (4th highest); and 07126300, Purgatoire River near Thatcher (5th highest). The water year 1995 peak discharges at most other gaging stations listed in table 2 were greater than the long-term median values for the period of record. Exceptions were water year 1995 peak discharges at gaging stations 07109500, Arkansas River near Avondale (less than median, but greater than 25th percentile), and 07128500, Purgatoire River near Las Animas (less than 25th percentile). No water year 1995 peak discharge was recorded at gaging station 06758500, South Platte near Weldona, because the high-flow period was estimated.

Table 2.--Peak discharges for water year 1995 and for the period of record at selected gaging stations

[mi², square miles; ft³/s, cubic feet per second; WY, water year; --, data unavailable]

	Gaging-station identification	Drainage area (mi ²)	Period of record (water years)	Water year 1995		Period of record		Remarks on WY 1995 peak discharge
				Date	Peak discharge (ft ³ /s)	Date	Peak discharge (ft ³ /s)	
06620000	North Platte River near Northgate	1,431	1904, 1915-94	6/19	4,250	6/11/23	6,720	Greater than 75th percentile
06696000	South Platte River near Lake George	963	1930-94	7/4	997	4/28/70	3,000	Greater than 75th percentile (2d highest)
06701500	South Platte River below Cheesman Lake	1,752	1926-94	7/2	2,310	4/29/70	4,640	Greater than 75th percentile (4th highest)
06706000	North Fork South Platte River below Geneva Creek, at Grant	127	1964-94	6/18	1,160	7/8/90	835	Highest for period of record
06752500	Cache la Poudre River near Greeley	1,877	1903, 1916-17, 1919, 1924-94	6/19	4,050	6/14/83	6,360	Greater than 75th percentile (3d highest)
06758500	South Platte River near Weldona	13,245	1953-94	--	--	5/8/73	26,800	Estimated period, no peak discharge recorded
07094500	Arkansas River at Parkdale	2,548	1946-55, 1965-94	6/18	6,830	6/26/83	6,310	Highest for period of record
07106500	Fountain Creek at Pueblo	926	1921-22, 1924-25, 1935, 1941-65, 1971-94	5/17	11,300	6/17/65	47,000	Greater than 75th percentile
07109500	Arkansas River near Avondale	6,327	1939-51, 1965-94	5/18	6,700	6/18/65	50,000	Less than median
07124000	Arkansas River at Las Animas	14,417	1939-94	7/21	6,390	5/20/55	44,000	Greater than 75th percentile
07126300	Purgatoire River near Thatcher	1,791	1965-94	5/30	13,300	6/18/65	47,700	Greater than 75th percentile (5th highest)
07128500	Purgatoire River near Las Animas	3,318	1922-31, 1949-94	5/31	2,820	5/20/55	70,000	Less than 25th percentile
07133000	Arkansas River at Lamar	19,780	1913, 1915, 1919-55, 1960-94	6/4	3,160	6/5/21	130,000	Greater than median
08220000	Rio Grande near Del Norte	1,320	1890-1994	6/18	7,410	10/5/11	18,000	Greater than 75th percentile
08240000	Rio Grande above mouth of Trinchera Creek, near Lasauses	5,740	1936-62, 1964-80, 1982-94	7/5	3,960	6/21/49	5,470	Greater than 75th percentile
08246500	Conejos River near Mogote	282	1903-5, 1912-94	6/18	2,310	10/5/11	9,000	Greater than median
08251500	Rio Grande near Lobatos	7,700	1900-94	7/5	6,330	6/8/05	13,200	Greater than 75th percentile

¹Period since imported water began flowing past this gaging station.

Chemical Quality of Streamflow

To determine if substantial changes occurred during water year 1995 in the chemical quality of streamflow, an analysis was made of specific conductance, which was measured at gaging stations on six selected streams. Each gaging station is the most downstream gaging station on that stream, or is representative of a substantial part of the drainage area of that stream. For each selected gaging station, the distribution of specific conductance during water year 1995 is compared to the reference period distribution of specific conductance in figure 5.

Specific conductance can be used to estimate the dissolved-solids concentration in water because specific conductance is directly proportional to the concentrations of ions in water. A statistical technique called the Wilcoxon-Mann-Whitney rank sum test was used to determine if there were significant differences between values of specific conductance for water year 1995 and values for the period of record (Ott, 1993). This test is a nonparametric counterpart to the common t-test and does not require the data to have a normal distribution.

The Wilcoxon-Mann-Whitney rank sum test was applied to the hypothesis that the mean specific conductance for water year 1995 was equal to the mean for the period of record. The procedure for testing the hypothesis involves computing a test statistic from the ranks of the data by using a pooled standard deviation and comparing the test statistics to a value obtained from a table of "Student's" t values (Box and others, 1978). The table value is $(1 - \alpha/2)$, where alpha (the level of significance) equals 0.05, at the appropriate degrees of freedom for the number of samples. If the absolute value of the computed test statistic (t_R) is greater than the tabular t value (t_{tab}), the hypothesis is rejected. A rejection of the hypothesis is statistical evidence that the two means are different.

Results of the Wilcoxon-Mann-Whitney rank sum tests for the six gaging stations are listed in table 3. For all six of the gaging stations, 06741510, Big Thompson River at Loveland; 06752280, Cache la Poudre River above Box Elder Creek, near Timnath; 07094500, Arkansas River at Parkdale; 07128500, Purgatoire River near Las Animas; 07133000, Arkansas River at Lamar; and 08217500, Rio Grande at Wagon Wheel Gap, the tests indicate that the mean specific conductance for water year 1995 are not statistically different from the mean specific conductance for the period of record.

Table 3.--Results of Wilcoxon-Mann-Whitney rank sum tests comparing mean specific conductance of discharge for water year 1995 with mean for the period of record at selected gaging stations

[Specific conductance, in microsiemens per centimeter at 25 degrees Celsius;
 t_R , calculated test statistic; t_{tab} , t-values from standard table; A, accepted]

Gaging station identification	Specific conductance						Wilcoxon-Mann-Whitney rank sum test			
	Water year 1995			Period of record			Period used (water years)	t_R	t_{tab}	Hypoth- esis
	Number of values	Mean	Standard devia- tion	Number of values	Mean	Standard devia- tion				
06741510 Big Thompson River at Loveland- - - - -	13	931	516	121	953	508	1985-94	-0.13	1.98	A
06752280 Cache la Poudre River above Box Elder Creek, near Timnath- - - -	12	1,599	942	110	1,452	711	1985-94	1.07	1.98	A
07094500 Arkansas River at Parkdale- - - - -	10	204	64	120	247	67	1987-94	-1.81	1.98	A
07128500 Purgatoire River near Las Animas--	27	3,125	942	145	2,968	1,079	1986-94	0.59	1.98	A
07133000 Arkansas River at Lamar- - - - -	13	3,489	1,028	106	3,432	886	1987-94	0.23	1.98	A
08217500 Rio Grande at Wagon Wheel Gap- - - - -	8	93	33	68	92	22	1987-94	0.28	2.00	A

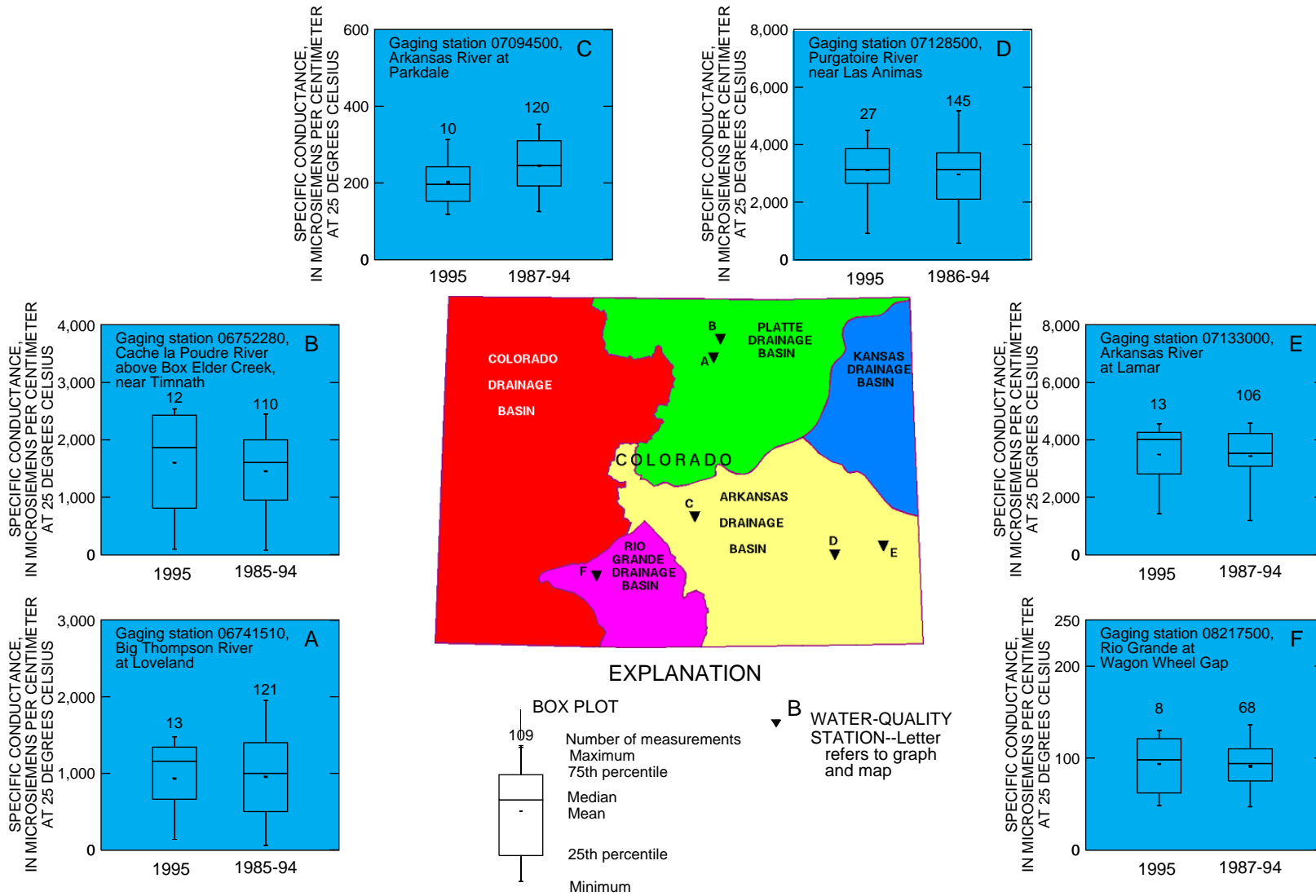


Figure 5.--Comparison of range and distribution of specific conductance measured during water year 1995 to long-term values.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 53 small sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 142 sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of wet atmospheric deposition, which includes snow, rain, sleet and hail. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

National Water-Quality Assessment Program (NAWQA) is a nationwide program that was implemented full-scale by the U.S. Geological Survey in 1991. The long term goals of the NAWQA program are to describe the status and trends in the quality of a large, representative part of the Nation's surface-water, and ground-water resources and to provide a sound, scientific understanding of the primary natural and human factors affecting the quality of these resources. The principle building blocks of the NAWQA program are the study-unit investigations on which national-level assessments are based. Study unit-investigations are comprehensive and include information on water, sediment, biota, and aquatic and terrestrial habitats within its boundaries. Of the 60 study unit-investigations that comprise the NAWQA program, portions of three are located in Colorado; the South Platte River, Rio Grande Valley, and Upper Colorado River Basins. Selected water-quality data for ten surface-water monitoring sites within the South Platte River Basin NAWQA and six surface-water monitoring sites within the Rio Grande Valley Basin NAWQA are included in volume one of this report.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1995 water year that began on October 1, 1994, and ended September 30, 1995. 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 surface and ground water. The locations of the stations where the surface-water data were collected are shown in figures 1 and 2. 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 streamsite 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 systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites 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 Colorado, for surface-water stations where only infrequent measurements are made.

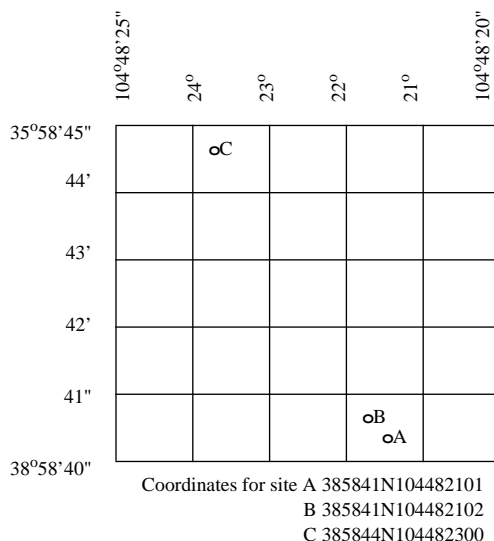
Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. 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 with respect to the stream to which it is immediately tributary is indicated by an indention in the "List of Stations" in the front of this report. Each indention represents one rank. This 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.

The station-identification number is assigned according to downstream order. 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 eight-digit number for each station, such as 06614800, which appears just to the left of the station name, includes the two-digit Part number "06" plus the six-digit downstream-order number "614800." The Part number designates the major river basin; for example, Part "06" is the Missouri River basin.

Latitude-Longitude System

The identification numbers for wells, springs, and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote the degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number, and may have no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure below).



System for numbering wells, springs, and miscellaneous sites.

The local well number locates a well within a 10-acre tract using the U. S. Bureau of Land Management system of land subdivision. The components of the local well number proceed from the largest to the smallest land subdivisions. This is in contrast to the legal description, which proceeds from the smallest to the largest land subdivision. The largest subdivision is the survey. Colorado is governed by three surveys: The Sixth Principal Meridian Survey (S), the New Mexico Survey (N), and the Ute Survey (U). Costilla County was not included in any of the above official surveys. This report follows the convention of the Costilla County Assessor in which the northern part of the county is governed by the Sixth Principal Meridian Survey and the southern part of the county is governed by a local system called the Costilla Survey (C). The first letter of the well location designates the survey.

A survey is subdivided into four quadrants formed by the intersection of the baseline and the principal meridian. The second letter of the well location designates the quadrant: A indicates the northeast quadrant, B the northwest, C the southwest, and D the southeast. A quadrant is subdivided in the north-south direction every 6 mi by townships and is divided in the east-west direction every 6 mi by ranges. The first number of the well location designates the township and the second number designates the range.

The 36-mi² area described by the township and range designation is subdivided into 1-mi² areas called sections. The sections are numbered sequentially. The third number of the well location designates the section. The section, which contains 640 acres, is subdivided into quarter sections. The 160-acre area is designated by the first letter following the section: A indicates the northeast quarter, B the northwest, C the southwest, and D the southeast. The quarter section is subdivided into quarter-quarter sections. The 40-acre area is designated in the same manner by the second letter following the section. The 10-acre area is designated in the same manner by the third letter following the section. If more than one well is located within the 10-acre tract, the wells are numbered sequentially in the order in which they were originally inventoried. If this number is necessary, it will follow the three-letter designation.

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 discharges 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 period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

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. The nature of the partial record is indicated by table titles. Records of miscellaneous discharge measurements or of measurements from special studies may be considered as partial records, but they are presented separately in this report. Location of all complete-record stations for which data are given in this report are shown in figure 1.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals, with electronic recorders that store stage values on computer chips at selected time intervals, or with satellite data collection platforms that transmit near real-time data at selected time intervals to office computers. Measurements of discharge are made with current meters using methods adapted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. 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 determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

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.

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves, or tables defining the relationship of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

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 from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections. "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

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 1992 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 and 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 flow 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 there are published records 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 with records from 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 glossary), 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 record 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 is also used to present information relative to the accuracy of the records, to special methods of computation, 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 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 presentations 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 below the daily table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the average flow in cubic feet per second during 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"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

If applicable, data collected at partial-record stations follow the information for continuous-record sites. 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 are generally 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.

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 WATER YEARS _____ - _____, 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, "WATER YEARS _____ - _____," 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. 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 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 to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

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 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) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all of 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 are generally 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 values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records 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 measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of their true value; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned, are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for daily values less than 1 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures for more than 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

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. 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 Records Available

The National Water Data Exchange (NAWDEx), U.S. Geological Survey, Reston, VA 22092, maintains an index of records of discharge collected by other agencies but not published by the Geological Survey. Information on records at specific sites can be obtained from that office upon request.

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables are on file in the Colorado District office. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the District office.

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 requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

In March 1989 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1989. Sulfate values in this report have not been corrected for this bias.

On October 1, 1995, the Colorado District adopted a new sampling and quality-assurance protocol for sampling of surface waters (Horowitz and others, 1994). This protocol was adopted as standard operating procedure for the collection and processing of all trace-element, major-ion, nutrient, and radiochemical species in filtered, surface-water samples.

Accuracy of the Records

Accuracy of water-quality monitor records are based on: (1) The completeness of the record, (2) frequency of calibration checks, (3) the length of time and frequency that data exceed allowable error limits, (4) the magnitude of errors, and (5) confidence in the resultant shifts applied. Listed below are the limits of allowable error.

*	Temperature:	+/- 0.3 degree C.
*	Specific Conductance:	+/- 5 uS/cm or + 5% whichever is greater
*	pH:	+/- 0.2 pH units
*	Dissolved Oxygen:	+/- 0.3 mg/L or + 5% whichever is greater.

A record is rated excellent if the allowable error limits are never exceeded, good if limits are occasionally exceeded and shifts are no greater than two times the limit, fair if limits are regularly exceeded and shifts are no greater than three times the limit, and poor for all others.

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 once 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 or recorded at short intervals on a paper tape, magnetic tape, computer chip, or some other medium. 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 stations for which records on the quality of surface water appear in this report are shown in figure 1.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of 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 record is published with its own number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

Onsite Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. All of these references are listed on pages 30 and 31 of this report. Also, detailed information on collecting, treating, and shipping samples may be obtained from the Geological Survey District office.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. 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. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals, depends on flow conditions and other factors which must be evaluated by the collector.

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. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

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 hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the U.S.G.S. District Office whose address is given on the back of the title page of this report.

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 or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal 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, either mean temperatures or maximum and minimum temperatures for each day are recorded to the nearest 0.1 degree Celsius. Water temperatures measured at the time of water-discharge measurements are published in this report as supplemental water-quality for gaging stations.

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 discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Laboratory Measurements

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally, all other samples are analyzed in the Geological Survey laboratories in Arvada, CO. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the Geological Survey laboratories are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

Historical and current (1995) dissolved trace-element concentrations are reported herein for water that was collected, processed, and analyzed by using either ultraclean or other than ultraclean techniques. If ultraclean techniques were used, then those concentrations are reported in nanograms per liter. If other than ultraclean techniques were used, then those concentrations are reported in micrograms per liter and could reflect contamination introduced during some phase of the procedure.

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, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as 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 are 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 record, sediment pumping sampler, or other sampling device is in operation at a station.

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

COOPERATION.--Records provided by a cooperating organization or obtained for the 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 transactions 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 insure the most recent updates.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remarks codes may appear with the water-quality data in this report:

PRINTED OUTPUT REMARK

E Estimated value

> Actual value is known to be greater than the value shown

< Actual value is known to be less than the value shown

K Based on non-ideal colony count

M Presence of material verified but not quantified

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that for most sampling sites they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes only slowly; therefore, for most general purposes one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey Techniques of Water-Resources Investigations" manuals listed at the end of the introductory text. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by County, and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

ACCESS TO WATSTORE DATA

The U.S. Geological Survey is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Data Storage and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water-data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

- * Station Header File - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or has collected data.
- * Daily Values File - Contains more than 220 million daily values of stream flows, stages, reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.
- * Peak Flow File - Contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.
- * Water Quality File - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radio-chemical characteristics of both surface and ground water.
- * Ground-Water Site Inventory Data Base - Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time field measurements such as water temperature.

In 1976, the U.S. Geological Survey opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requester will be expected to pay all computer costs he/she incurs. Direct access may be obtained by contacting:

U.S. Geological Survey
National Water Data Exchange
421 USGS National Center
Reston, VA 20192

In addition to data retrieval by direct access to WATSTORE, data are available in various machine-readable formats on magnetic tape or 5-1/4 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's 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.

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 or about 326,000 gallons or 1,233 cubic meters.

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

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

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

Alkalinity represents the capacity of solutes in an aqueous sample to neutralize acid. Total alkalinity titrations are performed in the field (FIELD) environment on an aqueous sample, filtered through a 0.45 micrometer filter (DIS), to an inflection point near pH = 4.5, using the iterative-titration (IT) method. Alkalinity titrations in the laboratory (LAB) are performed on unfiltered samples using the fixed-endpoint (FEP) method to pH = 4.5. On occasion, for chemical or hydrologic considerations, alkalinity titrations are performed in the field environment on unfiltered, whole-water (WWR) samples and noted. Column headings in this publication containing total alkalinity results will display the location: FIELD or LAB; titration method: IT or FEP; and type of aqueous sample: DIS or WWR.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

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. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which 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 ± 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 ± 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 also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as Gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organism which produce red or pink colonies with 48 hours at 35°C ± 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.

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

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

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

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m³), and periphyton and benthic organisms in grams per square meter (g/m²).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and the ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

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 natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

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

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.

Control designates a feature downstream from the gage that determines the stage-discharge relation at a gage. This feature may be a natural constriction of the channel, 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 salt water.

Cubic foot per second (ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic feet per second per square mile (ft³/s)/mi² is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

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

Instantaneous discharge is the discharge at a particular instant of time.

Annual 7-day minimum is 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.)

Dissolved refers to that material in a representative water sample which passes through a 0.45 um 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-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 the 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 0.492 to reflect the change.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary 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 particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate (CaCO₃).

Hydrologic Bench-Mark Network is a network of 53 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

Land-surface datum (Lsd) is a datum plane that is approximately at land surface at each groundwater observation well.

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

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

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

Micrograms per gram (ug/g) 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, ug/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute 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.

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 both 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.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 142 sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of atmospheric deposition, which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per unit area habitat, usually square meter (m²), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

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

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter or 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 Unit Subcommittee on Sediment Terminology. The classification is as follows:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
Clay.....	0.00024 - 0.004	Sedimentation
Silt.....	.004 - .062	Sedimentation
Sand.....	.062 - 2.0	Sedimentation or 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 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, mass, or volume.

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

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

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

Plankton is a community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

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

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

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

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

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

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

Milligrams of carbon per area or volume per unit time mg C/(m².time) for periphyton and macrophytes and mg C/(m³.time) for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time mg O/(m².time) for periphyton and macrophytes and mg O/(m³.time) for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radiochemical program 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.

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

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

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

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 of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it 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.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

Suspended sediment is the sediment that at any given time 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).

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

Suspended-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft³/s) x 0.0027.

Suspended-sediment load is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

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, as measured by dry mass or volume, that passes a section during a given time.

Total-sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

7-day 10-year low flow (7 Q₁₀) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

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 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 about 65 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-discharge relation is the relation between gage height (stage) and the volume of water, per unit of time, flowing in a channel.

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

Substrate is they physical surface upon which an organism lives.

Natural substrate refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

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

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimeted. All areas shown are those for the stage when the planimeted map was made.

Surficial bed material is the part (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 water-suspended sediment sample that is retained on a 0.45 um 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 constituents.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 um membrane filter. 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 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.

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

Kingdom.....	Animal
Phylum.....	Arthropoda
Class.....	Insecta
Order.....	Ephemeroptera
Family.....	Ephemeridae
<u>Genus</u>	<u>Hexagenia</u>
<u>Species</u>	<u>Hexagenia limbata</u>

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

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water 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 indicates 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) is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

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

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-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.

Tritium Network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

Water year in 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, 1980, is called the "1980 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.

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

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DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Colorado have been discontinued or converted to partial-record stations. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. [--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Period of record (calendar years)
Colorado Creek near Spicer, CO	06611000	25.8	1950-55
Grizzly Creek near Spicer, CO	06611100	118	1976-80
Buffalo Creek near Hebron, CO	06611200	56.3	1976-80
Grizzly Creek near Hebron, CO	06611300	223	1976-80
Grizzly Creek near Walden, CO	06611500	258	1904-05, 1923, 1926-47
Little Grizzly Creek near Coalmont, CO	06611700	10.1	1967-73
Little Grizzly Creek above Coalmont, CO	06611800	35.4	1976-80
Little Grizzly Creek above Hebron, CO	06611900	52.2	1976-80
Little Grizzly Creek near Hebron, CO	06612000	98.6	1904-05, 1931-45
Roaring Fork near Walden, CO	06612500	79.1	1904-05, 1923-47
North Platte River near Walden, CO	06613000	469	1904-05, 1923-47
North Fork North Platte River near Walden, CO	06614000	160	1923-28, 1936-45
South Fork Michigan River near Gould, CO	06615000	11.4	1950-58
Michigan River near Lindland, CO	06615500	60.9	1931-41
North Fork Michigan River near Gould, CO	06616000	20.5	1950-82
Michigan River at Walden, CO	06617100	182	1904-05, 1923-47
Illinois Creek near Rand, CO	06617500	70.6	1931-40
Willow Creek near Rand, CO	06618000	55.9	1931-40
Illinois Creek at Walden, CO	06618500	259	1923-47
Michigan River near Cowdrey, CO	06619000	478	1904-05, 1937-47
Canadian River near Lindland, CO	06619400	44.0	1978-83
Bush Draw near Walden, CO	06619415	4.10	1980-83
Williams Draw near Walden, CO	06619420	3.95	1979-83
Canadian River near Brownlee, CO	06619450	158	1978-83
Canadian River at Cowdrey, CO	06619500	181	1904-05, 1929-31, 1937-47
Laramie River near Glendevey, CO	06657500	101	1904-05, 1910-82
Middle Fork South Platte River above Fairplay, CO	06693980	62.2	1978-80
Middle Fork South Platte River near Hartsel, CO	06694100	250	1978-80
South Fork South Platte River above Fairplay, CO	06694400	50.3	1978-80
Fourmile Creek near Fairplay, CO	06694700	12.0	1978-80
South Platte River at Lake George, CO	06696200	1,084	1910-11, 1929
Tarryall Creek at Upper Station near Como, CO	06696980	23.7	1978-86
French Creek near Jefferson, CO	06697200	4.63	1986-90
Michigan Creek above Jefferson, CO	06697450	23.1	1978-86
Jefferson Creek near Jefferson, CO	06698000	11.8	1910-12, 1978-86
Tarryall Creek near Jefferson, CO	06698500	183	1910-11, 1912-17, 1977-81
Rock Creek near Jefferson, CO	06699000	45.5	1986-90
Tarryall Creek near Lake George, CO	06699500	236	1910-12, 1916, 1925-55
South Platte River above Cheesman Lake, CO	06700000	1,628	1899-1901, 1924-43
Goose Creek above Cheesman Lake, CO	06700500	86.6	1899, 1924-82
South Platte River above North Fork at South Platte, CO	06702000	2,098	1905-12
North Fork South Platte River at Grant, CO	06702500	49.0	1910-17
North Fork South Platte River at Pine, CO	06706500	374	1942-46
North Fork South Platte River at South Platte, CO	06707000	479	1909-10, 1913-82
South Platte River at South Platte, CO	06707500	2,579	1887-92, 1895-97, 1898-1982
South Platte River at Waterton, CO	06708000	2,621	1926-80
East Plum Creek at Castle Rock, CO	06708750	102	1985-89
Plum Creek near Louviers, CO	06709500	302	1947-90
South Platte River at Littleton, CO	06710000	3,069	1941-86
Turkey Creek above Bear Creek Lake, near Morrison, CO	06711040	50.6	1986-89
South Platte River at Florida Avenue, at Denver, CO	06711590	--	1981-82
Cherry Creek near Melvin, CO	06712500	360	1939-69
South Platte River at 50th Avenue at Denver, CO	06714130	3,810	1980-81
Senac Creek at North Border Sludge Area, near Aurora, CO	06714220	7.81	1989-93
West Fork Clear Creek above Empire, CO	06715500	40.5	1942-46
West Fork Clear Creek near Empire, CO	06716000	58.2	1929-31
Clear Creek below Idaho Springs, CO	06718000	259	1951-55

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

Station name	Station number	Drainage area (sq mi)	Period of record (calendar years)
North Clear Creek near Blackhawk, CO	06718500	52.2	1951-55
Clear Creek at Forks Creek, CO	06719000	339	1899-1912
Clear Creek near Golden, CO	06719500	399	1908-09, 1911-74
Clear Creek at Tabor Street, at Lakewood, CO	06719526	427	1981-83
Ralston Creek near Plainview, CO	06719725	36.9	1983-84
Schwartzwalder Mine Effluent near Plainview, CO	06719730	--	1983-84
Ralston Creek below Schwartzwalder Mine near Plainview, CO	06719735	38.9	1983-84
Ralston Creek above Ralston Reservoir near Golden, CO	06719740	42.7	1983-84
Clear Creek at Mouth Near Derby, CO	06720000	575	1914, 1927-82
Grange Hall Creek at Grant Park at Northglenn, CO	06720330	--	1978-79
Grange Hall Creek at Northglenn, CO	06720415	3.08	1978-81
Grange Hall Creek below Northglenn, CO	06720417	--	1981-82
First Creek below Buckley Road, near Rocky Mountain Arsenal, CO	06720460	26.4	1992-94
First Creek at Highway 2, near Rocky Mountain Arsenal, CO	06720490	39.0	1992-94
Woman Creek near Plainview, CO	06720690	--	1973-74
South Platte River at Fort Lupton, CO	06721000	5,010	1906, 1929-57
North Saint Vrain Creek at Longmont Dam near Lyons, CO	06722000	106	1925-53
South Saint Vrain Creek near Ward, CO	06722500	14.4	1925-27, 1928-31 1954-73
Middle Saint Vrain Creek near Raymond, CO	06722900	16.8	1956-58
Middle Saint Vrain Creek near Allens Park, CO	06723000	28.0	1925-30, ^a
South Saint Vrain Creek above Lyons, CO	06723400	81.4	1971-80
Lefthand Creek near Boulder, CO	06724500	52.0	1929-31, 1947-53, 1976-80
Lefthand Creek at Mouth at Longmont, CO	06725000	72.0	1927-42, 1953-55, 1976-79
Saint Vrain Creek near Longmont, CO	06725100	370	1964-68
North Boulder Creek at Silver Lake, CO	06726000	8.70	1913-32
North Boulder Creek near Nederland, CO	06726500	30.4	1929-31
South Boulder Creek near Rollinsville, CO	06729000	42.7	1910-18, 1945-49
South Boulder Creek at Pinecliff, CO	06729300	72.7	1979-80
Coal Creek near Plainview, CO	06730300	15.1	1959-82
Boulder Creek at Mouth near Longmont, CO	06730500	439	1927-49, 1951-55 1978-90
Boulder Brook near Estes Park, CO	06731800	3.83	1968-70
Glacier Creek near Estes Park, CO	06732000	20.8	1941-57, 1968-70
Beaver Brook near Estes Park, CO	06732300	1.49	1968-70
Fall River at Estes Park, CO	06732500	39.8	1945-53, ^a
Fish Creek near Estes Park, CO	06734500	15.8	1947-55
North Fork Big Thompson River at Drake, CO	06736000	85.1	1947-55
Big Thompson River below Power House near Drake, CO	06736500	278	1917-55
Dry Creek near Pinewood, CO	06740000	7.11	1950-52
Cottonwood Creek near Pinewood, CO	06741000	14.7	1947-53
Big Thompson River near Loveland, CO	06741500	505	1947-55
Little Thompson River near Berthoud, CO	06742000	100	1929-30, 1947-61
Little Thompson River at Milliken, CO	06743500	199	1951-55
Big Thompson River at Mouth near La Salle, CO	06744000	830	1914-15, 1927-82
Cache La Poudre River above Chambers Lake Outlet, CO	06745000	89.7	1929-31
Joe Wright Creek near Cameron Pass, CO	06746100	5.05	1974-78
Cache La Poudre River near Rustic, CO	06747500	198	1956-68
Cache La Poudre River near Log Cabin, CO	06748000	234	1909-11, 1929-31
Fall Creek near Rustic, CO	06748200	3.59	1960-73
South Fork Cache La Poudre near Eggers, CO	06748500	70.6	1929-31
Little Beaver Creek near Idylwilde, CO	06748510	0.88	1960-73
Little Beaver Creek near Rustic, CO	06748530	12.3	1960-73
South Fork Cache La Poudre River near Rustic, CO	06748600	92.4	1956-79
Cache La Poudre River below Elkhorn, CO	06749000	409	1946-59
North Fork Cache La Poudre River near Livermore, CO	06751500	567	1947-65
Lonetree Creek near Nunn, CO	06753500	199	1951-57
Crow Creek near Barnsville, CO	06756500	1,324	1951-57
South Platte River at Masters, CO	06756995	12,175	1976-88
South Platte River at Sublette, CO	06757000	12,170	1926-42, 1943-55
Kiowa Creek at K-79 Reservoir near Eastonville, CO	06757600	3.20	1955-65
Kiowa Creek at Elbert, CO	06758000	28.6	1955-65
West Kiowa Creek at Elbert, CO	06758100	35.9	1962-65
Kiowa Creek at Kiowa, CO	06758200	111	1955-65
Kiowa Creek at Bennett, CO	06758300	236	1960-65
Bijou Creek near Wiggins, CO	06759000	1,314	1950-56
Bijou Creek near Fort Morgan, CO	06759100	1,500	1976-87
South Platte River at Fort Morgan, CO	06759500	14,810	1943-58
South Platte River at Balzac, CO	06760000	16,852	1916-80

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

Station name	Station number	Drainage area (sq mi)	Period of record (calendar years)
South Platte River near Crook, CO	06760500	19,238	1953-58
North Fork Republican River near Wray, CO	06822000	1,019	1937-46, 1951-57, 1962-64
South Fork Republican River near Idalia, CO	06825000	1,300	1950-71, 1972-81
Landsman Creek near Hale, CO	06825500	268	1950-76, 1977-81
South Fork Republican River near Hale, CO	06826500	1,825	1946-48, 1951-86
Leadville Mine Drainage Tunnel at Leadville, CO	07079200	--	1990-93
East Fork Arkansas River near Leadville, CO	07079500	50.0	1890-1903, 1910-24
Tennessee Creek near Leadville, CO	07081000	48.0	1890-1903, 1910-1924
Arkansas River near Leadville, CO	07081200	97.2	1967-83
Lake Fork above Sugar Loaf Reservoir, CO	07082000	23.9	1946-67
Halfmoon Creek near Leadville, CO	07083500	25.2	1911-14
Arkansas River near Malta, CO	07083700	228	1964-67, 1976-84
Arkansas River below Empire Gulch, near Malta, CO	07083710	237	1990-93
Arkansas River at Buena Vista, CO	07087200	611	1964-80, 1986-93
Cottonwood Creek below Hot Springs near Buena Vista, CO	07089000	65.0	1910-23, 1949-86
Chalk Creek Upper Station near Saint Elmo, CO	07090000	48.0	1913-19
Chalk Creek near Saint Elmo, CO	07090500	83.0	1910-16
Chalk Creek near Nathrop, CO	07091000	97.0	1910, 1949-56, ^a
Arkansas River at Salida, CO	07091500	1,218	1895-97, 1901-03, 1909-80, 1910-18
South Arkansas River at Poncha, CO	07092000	140	1910-18
Poncha Creek at Poncha, CO	07093000	56.0	1910-18
South Arkansas River near Salida, CO	07093500	208	1922-23, 1929-40
South Colony Creek nr Westcliffe, CO	07094600	6.03	1974-78
Middle Taylor Creek near Westcliffe, CO	07094900	3.19	1974-78, 1984-85
Beaver Creek near Portland, CO	07099100	214	1971-81
Arkansas River near Portland, CO	07099200	4,280	1964-79
Little Turkey Creek near Fountain, CO	07099220	9.59	1978-88
Turkey Creek above Teller Reservoir near Stone City, CO	07099230	62.3	1978-88
Turkey Creek near Stone City, CO	07099235	71.5	1978-83, 1987
Arkansas River near Pueblo, CO	07099500	4,686	1885-87, 1889, 1894-1975
Monument Creek at Palmer Lake, CO	07103747	25.9	1977-90
Monument Creek at Monument, CO	07103750	28.5	1976-77
West Monument Creek near Pikeview, CO	07103900	15.4	1957-70
Kettle Creek near Black Forest, CO	07103950	9.01	1976-86
Templeton Gap Floodway at Colorado Springs, CO	07104500	8.73	1951-81
B Ditch Drain near Security, CO	07105780	--	1981-88
Clover Ditch near Widefield, CO	07105820	--	1981-88
Womack Ditch near Fort Carson, CO	07105924	--	1978-91
Little Fountain Creek near Fountain, CO	07105940	26.9	1978-88
Rock Creek near Fountain, CO	07105960	16.9	1978-88
Saint Charles River at San Isabel, CO	07107000	16.0	1936-41
Saint Charles River at Burnt Mill, CO	07107500	166	1923-34
Greenhorn Creek near Rye, CO	07107900	9.56	1974-79
Greenhorn Creek near Colorado City, CO	07108050	29.6	1974-79
Saint Charles River near Pueblo, CO	07108500	467	1941-53, 1955
Saint Charles River near Vineland, CO	07108800	473	1968-74
Saint Charles River at Mouth near Pueblo, CO	07109000	475	1922-25
Sixmile Creek near Avondale, CO	07110000	45.0	1922-24, 1941-46
Chico Creek near North Avondale, CO	07110500	864	1941-46
Huerfano River at Manzanares Crossing near Redwing, CO	07111000	73.0	1923-82
Huerfano River at Malachite, CO	07111500	107	1923-25
Huerfano River near Badito, CO	07112000	499	1941-46
Huerfano River at Badito, CO	07112500	532	1912, 1923-25, 1938-41, 1946-54
Huerfano River at Huerfano, CO	07113000	717	1923-28
Huerfano River near Mustang, CO	07113500	803	1942-47
Cucharas River at Boyd Ranch near La Veta, CO	07114000	56.0	1934-82
Cucharas River near La Veta, CO	07114500	75.0	1923-34
Huerfano River below Huerfano Valley Dam nr Undercliffe, CO	07116000	1,673	1939-67
Arkansas River at Nepesta, CO	07117500	9,460	1898-1902, 1904-06, 1936
Chicosa Creek near Fowler, CO	07117600	109	1968-74

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

Station name	Station number	Drainage area (sq mi)	Period of record (calendar years)
Apishapa River near Aguilar, CO	07118000	126	1939-50
Apishapa River at Aguilar, CO	07118500	149	1938-39, 1978-81
Apishapa River near White Rock, CO	07119000	737	1942-47
Big Arroyo near Thatcher, CO	07120620	15.5	1983-90 ^a
Timpas Creek near Rocky Ford, CO	07121000	451	1922-27, 1940-50
Fort Lyon Canal near Casa, CO	07122060	--	1988-90
Fort Lyon Canal near Cornelia, CO	07122105	--	1988-90
Fort Lyon Canal near Hasty, CO	07122200	--	1968-75 1988-90
Fort Lyon Canal near Big Bend, CO	07122350	--	1988-90
Crooked Arroyo near Swink, CO	07122400	108	1968-93
Crooked Arroyo near La Junta, CO	07122500	--	1922-25
Horse Creek near Sugar City, CO	07123500	1,080	1940-47
Horse Creek near Las Animas, CO	07123675	1,403	1979-93
Middle Fork Purgatoire River at Stonewall, CO	07124050	57.1	1978-81
Molino Canyon near Weston, CO	07124100	4.23	1978-81
Sarcillo Canyon near Segundo, CO	07124120	35.3	1978-81
Mulligan Canyon near Boncarbo, CO	07124210	4.53	1978-81
Reilly Canyon at Cokedale, CO	07124220	35.1	1978-81
Long Canyon Creek near Madrid, CO	07124300	100	1972-89
Carpios Canyon near Jansen, CO	07124350	4.57	1978-81
Purgatoire River at Trinidad, CO	07124500	795	1895-99, 1905-12, 1915-60, 1961-82
Purgatoire River near Hoehne, CO	07125000	857	1954-68
Frijole Creek near Alfalfa, CO	07125100	80.0	1957-68
San Francisco Creek near Alfalfa, CO	07125500	160	1954-68
Purgatoire River near Alfalfa, CO	07126000	1,320	1905-07, 1924-28, 1951-68
Van Bremer Arroyo near Thatcher, CO	07126130	80.6	1983-85
Burke Arroyo Tributary near Thatcher, CO	07126320	4.66	1983-87
Lockwood Canyon Creek near Thatcher, CO	07126390	41.4	1983-92 ^a
Red Rock Canyon Creek at Mouth, near Thatcher, CO	07126415	48.8	1983-90 ^a
Chacuaco Creek at Mouth, near Timpas, CO	07126470	424	1983-92 ^a
Bent Canyon Creek at Mouth near Timpas, CO	07126480	56.2	1983-90 ^a
Purgatoire River at Highland Dam near Las Animas, CO	07128000	3,376	1898, 1931-55
Rule Creek near Caddoa, CO	07129500	435	1941-46
Caddoa Creek at Caddoa, CO	07131000	131	1941-46
Willow Creek near Lamar, CO	07133050	42.0	1974-77
Big Sandy Creek above Amity Canal near Korman, CO	07134000	3,396	1941-46
Arkansas River at Holly, CO	07135500	25,073	1894, 1901-02, 1907-53
Wild Horse Creek at Holly, CO	07136000	270	1922-35, 1938-50
Holly Drain near Holly, CO	07136500	--	1924-50
Willow Creek at Creede, CO	08216500	51.7	1951-82
Rio Grande at Wason below Creede, CO	08217000	705	1907-54
Goose Creek near Wagonwheel Gap, CO	08218000	53.6	1924-26, 1939-52
Goose Creek at Wagonwheel Gap, CO	08218500	90.0	1954-91
Pinos Creek near Del Norte, CO	08220500	53.0	1919-24, 1936-82
San Francisco Creek at upper station near Del Norte, CO	08220900	11.8	1967-69
Rio Grande near Monte Vista, CO	08221500	1,590	1926-80
Rock Creek near Monte Vista, CO	08223500	32.9	1935-55, 1966-70
San Luis Creek near Poncha Pass, CO	08224110	6.57	1979-85
San Luis Creek above Villa Grove, CO	08224113	11.2	1979-85
Raspberry Creek near Villa Grove, CO	08224200	1.78	1967-70
Kerber Creek at Ashley Ranch near Villa Grove, CO	08224500	38.0	1923-26, 1936-82
Noland Gulch Tributary Reservoir Inflow, near Villa Grove, CO	08226600	0.08	1979-89
Cotton Creek near Mineral Hot Springs, CO	08226700	13.6	1967-70
Anaconda Reservoir near Villa Grove, CO	08227300	0.17	1979-85
Tracy Pit Reservoir Inflow near Saguache, CO	08227400	0.05	1979-89
North Crestone Creek near Crestone, CO	08227500	10.7	1936-82
Cottonwood Creek near Crestone, CO	08229500	6.77	1936, 1967-70
Carnero Creek near La Garita, CO	08230500	117	1919-82
La Garita Creek near La Garita, CO	08231000	61.0	1919-82
Mosca Creek near Mosca, CO	08234200	3.67	1967-70
Alamosa Creek above Terrace Reservoir, CO	08236000	107	1911-12, 1914-27 1934-82
Alamosa Creek below Terrace Reservoir, CO	08236500	116	1909-55
La Jara Creek at Gallegos Ranch near Capulin, CO	08238000	98.0	1916-17, 1919-23

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

Station name	Station number	Drainage area (sq mi)	Period of record (calendar years)
Yellow Warbler Reservoir Inflow near Antonito, CO	08238350	0.18	1936-82
Turkey Reservoir Inflow near Conejos, CO	08238380	0.24	1979-89
Bobolink Reservoir near Conejos, CO	08238400	0.23	1979-89
Trinchera Creek above Turners Ranch near Ft Garland, CO	08240500	45.0	1923-82
Trinchera Creek above Mountain Home Reservoir nr Ft Garland, CO	08241000	61.0	1923-55
Sangre De Cristo Creek near Ft Garland, CO	08241500	190	1916, 1923-30, 1931-82
Ute Creek near Ft Garland, CO	08242500	32.0	1916, 1923-82
Trinchera Creek below Smith Reservoir near Blanca, CO	08243500	396	1928-82
Conejos River at Platoro, CO	08245500	44.4	1936-53
Conejos River at Counsellors Cabin near Mogote, CO	08246000	211	1943-47
San Antonio River at mouth near Manassa, CO	08248500	348	1923-82
Culebra Creek near Chama, CO	08249400	72.4	1967-70
Culebra Creek at San Luis, CO	08250000	220	1927-82
Culebra Creek below San Luis, CO	08250500	255	1938-55
Rio Grande at CO-NM State Line	08252000	--	1953-82

a-Converted to a crest-stage partial-record station.

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

The following stations were discontinued as continuous-record surface-water-quality stations. Daily records of temperature, specific conductance, pH, dissolved oxygen or sediment were collected and published for the period of record shown for each station. [--, data unavailable]

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Canadian River near Lindland, CO	06619400	44.0	Temp., S.C., Sed.	1978-83
Canadian River near Brownlee, CO	06619450	158	Temp., S.C., Sed.	1978-83
South Platte River at Littleton, CO	06710000	3,069	Temp. S.C.	1970-86 1984-86
South Platte River at 64th Ave. at Commerce City, CO	06714215	3,884	Temp., pH., D.O.	1987
Ralston Creek near Plainview, CO	06719725	36.9	Temp., S.C., pH., D.O.	1983-84
Schwartzwalder Mine Effluent near Plainview, CO	06719730	--	Temp., S.C., pH., D.O.	1983-84
Ralston Creek below Schwartzwalder Mine, CO	06719735	38.9	Temp., S.C., pH., D.O.	1983-84
Ralston Creek above Ralston Res. nr Plainview, CO	06719740	42.7	Temp., S.C., pH., D.O.	1983-84
Cache La Poudre River near Greeley, CO	06752500	1,877	Temp., S.C., pH., D.O.	1975
South Platte River near Kersey, CO	06754000	8,598	Temp.	1950-53
Kiowa Creek at Elbert, CO	06758000	28.6	Sed.	1957-68, 1960-62, 1964-65
West Kiowa Creek at Elbert, CO	06758100	35.9	Sed.	1962-65
Kiowa Creek at Kiowa, CO	06758200	111	Sed.	1956-65
South Platte River at Julesburg, CO (Chan. 2)	06763990	--	Temp. S.C.	1967-73 1971-73
North Fork Republican River near Wray, CO	06822000	1,019	Temp., Sed.	1962-63
California Gulch at Malta, CO	07081800	8.13	Temp., S.C., pH	1991-92
Halfmoon Creek near Malta, CO	07083000	23.6	Temp.	1967-82
Arkansas River below Empire Gulch, near Malta, CO	07083710	237	Temp., S.C., pH	1990-93
Arkansas River at Buena Vista, CO	07087200	611	Temp., S.C.	1986-93
Arkansas River near Nathrop, CO	07091200	1,060	Temp., S.C., pH	1989-93
Arkansas River at Parkdale, CO	07094500	2,548	Temp., S.C.	1986-93
Fountain Creek near Pinon, CO	07106300	849	Temp., S.C.	1976-79
Apishapa River at Aguilar, CO	07118500	149	Sed.	1979-81
Apishapa River near Fowler, CO	07119500	1,125	Temp., S.C.	1966-68
Big Arroyo near Thatcher, CO	07120620	15.5	Temp., S.C., Sed.	1983-90 ^a
Arkansas River near La Junta, CO	07122000	--	Temp., S.C.	1966-68
Horse Creek near Las Animas, CO	07123675	1,403	Temp., S.C.	1987-93
Middle Fork Purgatoire River at Stonewall, CO	07124050	52.1	Temp., S.C. Sed.	1978-81 1979-81
Molino Canyon near Weston, CO	07124100	4.23	Sed.	1979-81
Sarcillo Canyon near Segundo, CO	07124120	35.3	Sed.	1980-81
Purgatoire River at Madrid, CO	07124200	550	Temp., S.C. Sed.	1979-81 1978-81
Mulligan Canyon near Boncarbo, CO	07124210	4.53	Sed.	1979-81
Reilly Canyon at Cokedale, CO	07124220	35.1	Sed.	1979-81
Carprios Canyon near Jansen, CO	07124350	100	Sed.	1979-81
Purgatoire River below Trinidad Lake, CO	07124410	672	Sed.	1977-82
Luning Arroyo Tributary near Model, CO	07126110	--	Temp., S.C.	1984
Van Bremer Arroyo near Thatcher, CO	07126130	80.6	Temp., S.C.	1985
Purgatoire River near Thatcher, CO	07126300	1,791	Sed.	1983-92
Burke Arroyo Tributary near Thatcher, CO	07126320	4.66	Temp., S.C. Sed.	1983-86 1984-86
Lockwood Canyon Creek near Thatcher, CO	07126390	41.4	Temp., S.C., Sed.	1989-92
Red Rock Canyon Creek at Mouth, near Thatcher, CO	07126415	41.4	Temp., S.C.	1983-90 ^a
Chacuaco Creek at Mouth near Timpas, CO	07126470	424	Temp., S.C., Sed.	1983-92
Bent Canyon Creek at Mouth near Timpas, CO	07126480	56.2	Temp., S.C.	1983-90 ^a
Purgatoire River at Rock Crossing Timpas, CO	07126485	2,635	Temp., S.C., Sed.	1983-92
Purgatoire River at Highland Dam near Las Animas, CO	07128000	3,376	S.C.	1967-68
Willow Creek at Creede, CO	08216500	35.3	Temp., S.C.	1976-77
Rio Grande at Wagonwheel Gap, CO	08216500	780	Temp., S.C.	1976-77
San Luis Creek near Poncha Pass, CO	08224110	6.57	Sed.	1981-83
San Luis Creek above Villa Grove, CO	08224113	11.2	Sed.	1981-83
Rio Grande above Culebra Creek near Lobatos, CO	08249200	--	Temp. S.C.	1964-66 1964-66

Type of record: Temp. (temperature), S.C. (specific conductance), pH (pH), D.O. (dissolved oxygen), Sed. (sediment).

a-Converted to a crest-stage partial-record station.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey 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. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by 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 "U.S. Geological Survey Techniques of Water-Resources Investigations."

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- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
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- 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, Chapter A6. 1982. 181 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
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PLATTE RIVER BASIN

06614800 MICHIGAN RIVER NEAR CAMERON PASS, CO

LOCATION.--Lat 40°29'46", long 105°51'52", in S¹/₂ sec.12, T.6 N., R.76 W. (unsurveyed), Jackson County, Hydrologic Unit 10180001, on right bank 500 ft upstream from Michigan ditch, 2.2 mi southeast of Cameron Pass, 8 mi east of Gould, and 27 mi southeast of Walden.

DRAINAGE AREA.--1.53 mi².

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 10,390 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 27 to May 3, and May 24 to June 6. Records good except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	.35	.28	.26	.24	.33	.40	.40	2.4	18	8.8	2.6
2	.43	.35	.28	.26	.24	.34	.40	.40	3.2	19	8.1	2.5
3	.43	.35	.28	.26	.24	.34	.40	.39	4.0	16	7.7	2.5
4	.44	.35	.28	.26	.24	.34	.42	.37	5.2	13	7.4	2.3
5	.45	.35	.28	.26	.24	.34	.43	.28	6.8	14	7.1	2.2
6	.48	.35	.28	.26	.24	.34	.44	.27	6.6	18	7.0	2.3
7	.50	.35	.28	.26	.24	.34	.45	.27	6.2	22	7.0	2.2
8	.54	.35	.28	.26	.24	.34	.45	.26	5.8	25	7.2	2.4
9	.54	.35	.27	.26	.24	.34	.45	.24	4.4	34	7.2	2.1
10	.52	.35	.27	.26	.24	.34	.45	.25	3.7	44	6.7	2.0
11	.50	.35	.26	.26	.24	.34	.45	.27	3.6	54	6.9	2.0
12	.49	.35	.26	.26	.23	.34	.43	.27	5.3	56	6.9	1.7
13	.45	.35	.26	.26	.23	.34	.41	.25	8.0	61	6.1	1.5
14	.44	.34	.26	.26	.22	.34	.40	.25	13	69	5.6	1.5
15	.42	.33	.26	.26	.23	.35	.40	.28	17	45	4.9	1.4
16	.44	.32	.26	.26	.23	.36	.40	.33	30	32	4.6	1.3
17	.47	.31	.26	.26	.24	.37	.40	.34	60	31	4.3	1.2
18	.44	.30	.26	.25	.24	.38	.40	.31	43	23	4.2	1.4
19	.44	.30	.26	.25	.24	.40	.40	.31	26	22	4.1	1.5
20	.43	.30	.26	.24	.24	.40	.40	.32	30	20	4.0	2.1
21	.40	.30	.26	.24	.25	.40	.40	.36	31	17	3.8	2.0
22	.40	.30	.26	.24	.26	.40	.40	.50	29	15	4.4	1.5
23	.40	.30	.26	.24	.27	.40	.40	.52	24	13	4.2	1.4
24	.39	.30	.26	.24	.27	.40	.40	2.0	20	12	4.1	1.3
25	.36	.30	.26	.24	.28	.40	.40	1.9	20	12	3.8	1.4
26	.34	.30	.26	.24	.29	.40	.40	1.8	22	12	3.6	1.3
27	.35	.30	.26	.24	.31	.40	.40	1.8	24	11	3.4	1.4
28	.35	.29	.26	.24	.32	.40	.40	1.7	25	11	3.4	1.5
29	.35	.29	.26	.24	---	.40	.40	1.6	20	10	3.2	1.9
30	.35	.28	.26	.24	---	.40	.40	1.6	17	9.8	3.0	1.8
31	.35	---	.26	.24	---	.40	---	1.8	---	9.4	2.8	---
TOTAL	13.31	9.71	8.24	7.80	6.99	11.41	12.38	21.64	516.2	768.2	165.5	54.2
MEAN	.43	.32	.27	.25	.25	.37	.41	.70	17.2	24.8	5.34	1.81
MAX	.54	.35	.28	.26	.32	.40	.45	2.0	60	69	8.8	2.6
MIN	.34	.28	.26	.24	.22	.33	.40	.24	2.4	9.4	2.8	1.2
AC-FT	26	19	16	15	14	23	25	43	1020	1520	328	108

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1995, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	.80	.52	.41	.34	.30	.32	.40	3.72	16.2	9.49	2.80	1.30											
MAX	1.94	1.08	.67	.57	.55	.86	.80	9.50	27.1	24.8	6.83	3.32											
(WY)	1983	1985	1978	1988	1986	1986	1994	1974	1990	1995	1983	1984											
MIN	.32	.20	.25	.17	.16	.17	.22	.70	10.9	2.06	1.20	1.49											
(WY)	1980	1979	1979	1991	1977	1974	1982	1995	1992	1994	1988	1988											

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1974 - 1995
ANNUAL TOTAL	820.35	1595.58	
ANNUAL MEAN	2.25	4.37	3.06
HIGHEST ANNUAL MEAN			4.61 1983
LOWEST ANNUAL MEAN			1.97 1977
HIGHEST DAILY MEAN	^a .24 Jun 1	69 Jul 14	69 Jul 14 1995
LOWEST DAILY MEAN	^b .26 Dec 11	.22 Feb 14	.08 Nov 16 1989
ANNUAL SEVEN-DAY MINIMUM	.26 Dec 11	^{c,e} .23 Feb 10	^{d,e} .14 Jan 9 1979
INSTANTANEOUS PEAK FLOW		^{c,e} 115 Jul 12	^{d,e} 115 Jul 12 1995
INSTANTANEOUS PEAK STAGE		^c 3.69 Jul 12	^d 3.69 Jul 12 1995
ANNUAL RUNOFF (AC-FT)	1630	3160	2210
10 PERCENT EXCEEDS	7.5	14	10
50 PERCENT EXCEEDS	.50	.40	.57
90 PERCENT EXCEEDS	.30	.25	.25

a-Also occurred Jun 4.
b-Also occurred Dec 12-31.
c-Also occurred Jul 13.
d-Also occurred Jul 13, 1995.
e-From rating curve extended above 82 ft³/s.

06620000 NORTH PLATTE RIVER NEAR NORTHGATE, CO

LOCATION.--Lat 40°56'15", long 106°20'16", in NE¹/₄ SW¹/₄ SE¹/₄ sec.11, T.11 N., R.80 W., Jackson County, Hydrologic Unit 10180001, on right bank 1,000 ft downstream from bridge on State Highway 125, 0.7 mi upstream from Camp Creek, 4.2 mi northwest of Northgate, and 4.4 mi south of Colorado-Wyoming State line.

DRAINAGE AREA.--1,431 mi².

PERIOD OF RECORD.--May to November 1904 (published as "near Pinkhampton"), May 1915 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1916-21, 1929(M), 1930-32. WSP 1730: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 7,810.39 ft above sea level. See WSP 1730 for history of changes prior to Apr. 8, 1918. Apr. 8, 1918, to Aug. 21, 1961, water-stage recorder at site 0.7 mi downstream at datum 3.36 ft lower. Aug. 22, 1961, to Sept. 18, 1984, at site 650 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Oct. 30, 31, and Nov. 2 to Mar. 25. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 130,000 acres of hay meadows upstream from station. Transbasin diversions upstream from station to Cache la Poudre River basin. National Weather Service satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	62	61	52	90	140	225	270	1680	1980	710	161
2	43	57	64	50	91	145	269	357	1540	1720	649	147
3	48	53	64	48	92	150	241	517	1490	1840	601	141
4	52	50	65	52	90	160	181	468	1450	2130	564	136
5	57	52	66	54	89	160	195	365	1480	2160	544	131
6	56	54	64	56	90	160	208	324	1630	1910	533	134
7	54	61	62	58	91	170	229	303	1790	1660	504	146
8	61	60	62	61	90	170	230	284	1930	1590	465	173
9	68	62	59	64	89	180	233	333	2340	1730	430	235
10	73	63	56	69	84	185	202	353	2540	1800	424	231
11	72	64	54	73	80	190	176	344	2560	1950	420	203
12	68	65	56	76	84	190	177	359	2080	2030	440	195
13	67	66	58	79	92	190	183	417	1640	2080	449	172
14	67	61	60	76	100	195	192	452	1600	2310	405	150
15	70	64	61	73	105	200	198	425	1770	2570	379	137
16	66	70	64	72	110	210	179	382	2100	2590	343	122
17	61	67	66	70	110	220	159	436	2480	2180	315	119
18	61	59	69	67	120	230	159	563	3310	1980	279	110
19	62	60	69	66	125	230	153	492	4050	1850	262	114
20	66	62	67	66	130	240	147	418	3850	1870	252	131
21	73	60	64	66	125	250	145	474	3060	1880	255	188
22	68	62	65	67	125	260	139	568	2600	1690	254	250
23	63	59	67	70	125	270	130	575	2440	1440	274	251
24	56	62	68	72	130	270	140	694	2340	1280	289	228
25	58	64	68	75	130	250	144	947	2240	1170	284	199
26	61	64	67	75	130	237	155	933	2240	1070	281	182
27	62	52	66	74	130	218	165	877	1950	1000	250	158
28	65	53	65	74	130	272	171	1090	1830	917	243	141
29	63	55	63	76	---	247	172	1200	1840	851	228	143
30	58	58	62	80	---	206	192	1340	2100	785	196	167
31	61	---	57	85	---	226	---	1660	---	737	173	---
TOTAL	1899	1801	1959	2096	2977	6421	5489	18220	65950	52750	11695	4995
MEAN	61.3	60.0	63.2	67.6	106	207	183	588	2198	1702	377	166
MAX	73	70	69	85	130	272	269	1660	4050	2590	710	251
MIN	39	50	54	48	80	140	130	270	1450	737	173	110
AC-FT	3770	3570	3890	4160	5900	12740	10890	36140	130800	104600	23200	9910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1995, BY WATER YEAR (WY)

MEAN	160	149	100	81.2	86.3	168	750	1127	1478	644	267	145
MAX	538	366	200	177	199	722	2444	3649	3296	2367	763	502
(WY)	1962	1962	1928	1984	1986	1986	1962	1984	1983	1957	1983	1929
MIN	31.7	54.2	33.9	27.5	35.7	47.8	131	212	89.4	26.7	38.5	23.8
(WY)	1935	1935	1977	1977	1933	1964	1981	1981	1934	1934	1934	1934

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1904 - 1995

ANNUAL TOTAL	76053	176252	--
ANNUAL MEAN	208	483	431
HIGHEST ANNUAL MEAN	--	--	878
LOWEST ANNUAL MEAN	--	--	117
HIGHEST DAILY MEAN	1080	Apr 25	4050
LOWEST DAILY MEAN	38	Sep 12	39
ANNUAL SEVEN-DAY MINIMUM	41	Sep 9	50
INSTANTANEOUS PEAK FLOW	--	--	4250
INSTANTANEOUS PEAK STAGE	--	6.48	Jun 19
ANNUAL RUNOFF (AC-FT)	150900	349600	312300
10 PERCENT EXCEEDS	631	1810	1210
50 PERCENT EXCEEDS	94	160	160
90 PERCENT EXCEEDS	55	60	68

a-Gage height 6.24 ft, site and datum then in use.
b-Backwater from ice jam.

06695000 SOUTH PLATTE RIVER ABOVE ELEVENMILE CANYON RESERVOIR, NEAR HARTSEL, CO

LOCATION.--Lat 38°58'03", long 105°34'51", in NE¹/₄ sec.32, T.12 S., R.73 W., Park County, Hydrologic Unit 10190001, on left bank 200 ft downstream from highway bridge, 2.5 mi upstream from water line of Elevenmile Canyon Reservoir, at elevation 8,561 ft, and 13 mi southeast of Hartsel.

DRAINAGE AREA.--880 mi².

PERIOD OF RECORD.--June 1933 to current year (no winter records prior to 1940). Monthly discharge only for some periods, published in WSP 1310. Statistics computed for the period 1982 to current year.

REVISED RECORDS.--WSP 1630: 1958. WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and Parshall flume. Datum of gage is 8,612.83 ft above sea level, Denver Board of Water Commissioners Datum. Prior to May 27, 1939, water-stage recorder near present site at different datum. May 27, 1939, to Nov. 4, 1961, at datum 0.46 ft, lower.

REMARKS.--Estimated daily discharges: Nov. 24-30. Records good. Flow regulated by Antero Reservoir, capacity, 22,300 acre-ft, prior to Sept. 15, 1981, and by Spinney Mountain Reservoir, 3.6 mi upstream, capacity, 152,900 acre-ft, since Sept. 15, 1981. Many small diversions upstream from station for irrigation of about 24,000 acres.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	76	71	40	68	42	96	206	49	857	428	324
2	131	76	94	40	68	42	96	166	50	862	416	292
3	119	76	74	48	67	42	103	107	52	858	365	381
4	104	78	66	57	68	41	115	82	52	845	298	286
5	90	77	66	57	68	42	115	57	52	760	321	251
6	67	77	66	57	57	42	115	52	51	662	320	254
7	65	57	67	57	48	41	130	49	51	558	301	219
8	73	49	66	57	50	41	142	44	52	610	288	197
9	62	54	66	57	50	41	143	44	52	701	271	218
10	59	47	69	57	50	41	144	44	52	756	323	239
11	47	46	66	57	50	42	144	45	52	816	323	278
12	38	49	69	61	50	42	144	45	52	845	362	269
13	58	44	51	66	50	42	144	45	52	852	398	235
14	86	44	38	66	50	41	142	45	112	851	361	225
15	91	45	40	65	50	42	142	45	293	850	365	133
16	66	44	40	66	50	42	143	46	461	853	363	117
17	51	36	40	66	51	43	116	92	564	855	341	124
18	106	32	38	66	50	44	96	76	589	794	321	121
19	93	32	37	67	50	43	97	49	587	806	323	180
20	71	31	42	67	51	42	96	48	458	813	330	216
21	67	33	39	67	51	72	97	48	324	774	333	216
22	64	36	39	68	51	96	97	48	366	675	367	202
23	62	32	39	68	46	96	97	48	603	709	363	198
24	60	32	39	68	42	96	136	48	709	581	392	190
25	64	32	39	68	42	96	163	49	732	530	570	171
26	73	32	40	68	42	96	164	49	740	487	489	161
27	74	32	39	68	42	96	148	49	761	438	452	150
28	73	32	39	68	42	96	136	49	816	410	448	133
29	74	32	39	68	---	96	136	60	827	388	412	128
30	51	32	39	68	---	96	136	57	842	391	346	136
31	44	---	38	68	---	96	---	48	---	415	314	---
TOTAL	2313	1395	1595	1921	1454	1870	3773	1940	10453	21602	11304	6244
MEAN	74.6	46.5	51.5	62.0	51.9	60.3	126	62.6	348	697	365	208
MAX	131	78	94	68	68	96	164	206	842	862	570	381
MIN	38	31	37	40	42	41	96	44	49	388	271	117
AC-FT	4590	2770	3160	3810	2880	3710	7480	3850	20730	42850	22420	12380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1995, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	87.6	63.6	61.7	55.8	54.0	76.8	95.8	107	196	235	200	119		
MAX	191	81.7	129	135	114	242	141	332	415	697	381	208		
(WY)	1985	1987	1990	1990	1990	1986	1983	1987	1985	1995	1984	1995		
MIN	30.1	29.1	28.2	21.7	21.9	23.2	66.5	40.0	38.8	122	125	44.9		
(WY)	1982	1984	1985	1983	1982	1982	1982	1991	1991	1992	1992	1982		

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1982 - 1995
ANNUAL TOTAL	38431	65864	
ANNUAL MEAN	105	180	^a 113
HIGHEST ANNUAL MEAN			180
LOWEST ANNUAL MEAN			73.3
HIGHEST DAILY MEAN	282	862	862
LOWEST DAILY MEAN	31	31	.20
ANNUAL SEVEN-DAY MINIMUM	32	32	1.9
INSTANTANEOUS PEAK FLOW		870	^b 3970
INSTANTANEOUS PEAK STAGE		3.99	7.60
ANNUAL RUNOFF (AC-FT)	76230	130600	81950
10 PERCENT EXCEEDS	205	541	232
50 PERCENT EXCEEDS	82	68	75
90 PERCENT EXCEEDS	42	41	37

a-Average discharge for 42 years (water years 1940-81), 77.3 ft³/s; 56000 acre-ft/yr, prior to completion of Spinney Mountain Dam.
b-Maximum daily discharge. Maximum instantaneous discharge, not determined, occurred Apr 28, 1970.

06696000 SOUTH PLATTE RIVER NEAR LAKE GEORGE, CO

LOCATION.--Lat 38°54'19", long 105°28'22", in SW¹/₄ sec.20, T.13 S., R.72 W., Park County, Hydrologic Unit 10190001, on left bank 700 ft downstream from Elevenmile Canyon Reservoir and 8.2 mi southwest of town of Lake George.

DRAINAGE AREA.--963 mi².

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and Parshall flume. Elevation of gage is 8,458 ft above sea level, from topographic map. Prior to Oct. 26, 1940, at site 1 mi downstream at datum 8,423.95 ft, above sea level, adjustment of 1912.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transmountain diversions through East and West Hoosier ditches at Hoosier Pass prior to 1941, storage in Elevenmile Canyon Reservoir (see elsewhere in this report) and Antero Reservoir, capacity, 22,300 acre-ft, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	50	27	42	71	47	88	145	59	885	253	313
2	101	50	31	42	72	50	89	159	58	937	283	308
3	140	51	34	42	69	51	89	150	60	958	298	304
4	147	56	37	43	69	50	92	141	60	976	302	309
5	146	57	40	45	68	48	96	131	60	954	293	283
6	141	58	44	47	67	51	98	122	58	898	292	272
7	124	59	47	49	64	52	99	108	54	824	290	262
8	123	56	49	50	63	50	107	102	54	753	288	246
9	116	56	51	50	63	50	115	90	60	739	278	241
10	108	55	53	50	60	50	126	79	55	734	273	233
11	101	53	56	51	59	49	133	75	55	746	281	232
12	55	53	56	52	63	49	128	74	54	793	285	232
13	31	51	57	54	64	47	130	66	54	838	305	230
14	33	47	55	56	63	45	135	58	55	885	314	225
15	40	45	53	57	61	45	128	57	106	933	316	216
16	43	46	51	59	59	46	129	55	258	957	318	187
17	48	45	49	59	58	54	131	74	397	974	318	172
18	48	38	48	60	57	54	134	85	465	981	313	157
19	54	38	45	61	56	54	131	82	493	903	314	152
20	54	40	42	62	55	53	127	80	505	960	311	154
21	55	35	40	64	55	53	130	75	484	905	314	157
22	52	35	37	64	54	57	128	70	471	875	326	162
23	53	34	43	65	53	59	125	65	530	815	343	157
24	49	32	46	65	52	64	129	63	586	788	355	157
25	49	32	46	66	51	66	131	62	630	730	391	157
26	50	32	45	67	50	72	144	63	659	638	460	154
27	54	32	45	68	48	73	148	62	686	541	460	152
28	54	29	44	68	47	78	148	60	722	455	491	145
29	49	28	43	71	---	83	145	59	769	392	480	142
30	52	27	43	72	---	86	149	62	812	343	448	135
31	51	---	42	70	---	87	---	64	---	259	367	---
TOTAL	2322	1320	1399	1771	1671	1773	3682	2638	9369	24369	10360	6246
MEAN	74.9	44.0	45.1	57.1	59.7	57.2	123	85.1	312	786	334	208
MAX	147	59	57	72	72	87	149	159	812	981	491	313
MIN	31	27	27	42	47	45	88	55	54	259	253	135
AC-FT	4610	2620	2770	3510	3310	3520	7300	5230	18580	48340	20550	12390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1995, BY WATER YEAR (WY)

MEAN	55.0	42.0	27.3	25.4	27.0	40.9	93.4	93.4	146	189	155	75.2
MAX	221	166	107	133	117	201	436	775	614	786	459	288
(WY)	1931	1955	1990	1990	1990	1986	1970	1970	1949	1995	1984	1930
MIN	2.12	2.26	2.20	1.50	1.00	3.00	7.08	4.77	7.78	16.9	14.8	4.73
(WY)	1941	1940	1940	1933	1933	1933	1939	1961	1961	1940	1940	1953

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1930 - 1995	
ANNUAL TOTAL	36089		66920			
ANNUAL MEAN	98.9		183		81.7	
HIGHEST ANNUAL MEAN					218	
LOWEST ANNUAL MEAN					14.1	
HIGHEST DAILY MEAN	244		Jun 7	a981	Jul 18	2820
LOWEST DAILY MEAN	b27		Nov 30	b27	Nov 30	c.00
ANNUAL SEVEN-DAY MINIMUM	29		Nov 26	29	Nov 26	1.0
INSTANTANEOUS PEAK FLOW				a997	Jul 4	3000
INSTANTANEOUS PEAK STAGE				5.37	Jul 4	8.34
ANNUAL RUNOFF (AC-FT)	71580		132700		59170	
10 PERCENT EXCEEDS	190		498		206	
50 PERCENT EXCEEDS	84		68		42	
90 PERCENT EXCEEDS	34		45		8.1	

a-Includes flow through bypass.

b-Also occurred Dec 1.

c-No flow at times in Jan 1930, Feb 1931, and Nov 1935.

06699005 TARRYALL CREEK BELOW ROCK CREEK, NEAR JEFFERSON, CO

LOCATION (REVISED).--Lat 39°17'13", long 105°41'43", in NW¹/4NW¹/4 sec.8, T.9 S., R.74 W., Park County, Hydrologic Unit 10190001, on left bank 1,800 ft downstream from Rock Creek, 1.0 mi northwest of Bordenville, and 9 mi southeast of Jefferson.

DRAINAGE AREA.--230 mi².

PERIOD OF RECORD.--April 1983 to current year.

REVISED RECORDS.--WDR CO-86-1: Drainage area. WDR CO-87-1: 1986 (M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,020 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 1 to Apr. 4. Records fair except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	14	10	9.0	9.0	9.0	28	46	240	734	215	73
2	19	14	10	9.0	9.0	9.0	32	55	189	602	188	68
3	17	14	10	9.0	9.0	9.0	40	67	229	578	167	64
4	17	13	9.6	9.0	9.0	9.0	42	56	220	550	175	58
5	25	13	9.3	9.0	9.0	9.0	29	59	234	472	163	55
6	22	13	9.0	9.0	9.0	9.0	36	57	267	414	146	54
7	20	13	9.0	9.0	9.0	9.0	46	56	284	401	136	59
8	22	13	9.0	9.0	9.0	9.0	47	47	281	412	127	66
9	19	13	9.0	9.0	9.0	9.0	45	50	322	416	125	71
10	17	13	9.0	9.0	9.0	9.0	32	43	299	431	130	64
11	17	13	9.0	9.0	9.0	9.0	20	63	245	433	117	53
12	16	13	9.0	9.0	9.0	9.0	21	91	261	442	121	50
13	15	13	9.0	9.0	9.0	9.0	34	59	313	440	127	45
14	15	13	9.0	9.0	8.8	9.0	43	55	368	459	115	43
15	19	13	9.0	9.0	9.0	9.4	32	66	452	549	118	44
16	24	12	9.0	9.0	9.0	10	25	89	550	457	98	38
17	23	12	9.0	9.0	9.0	12	26	137	589	601	90	36
18	24	12	9.0	9.0	9.0	13	22	142	776	479	85	38
19	24	12	9.0	9.0	9.0	15	23	196	717	432	98	45
20	24	11	9.0	9.0	9.0	18	24	121	676	375	114	40
21	22	11	9.0	9.0	9.0	20	24	107	657	344	145	51
22	21	11	9.0	9.0	9.0	20	21	112	648	320	172	52
23	19	11	9.0	9.0	9.0	20	25	124	630	302	148	45
24	18	11	9.0	9.0	9.0	21	27	126	606	297	157	43
25	17	11	9.0	9.0	9.0	21	33	138	562	285	133	42
26	16	11	9.0	9.0	9.0	21	46	203	525	258	134	40
27	17	11	9.0	9.0	9.0	22	48	184	526	236	114	38
28	16	11	9.0	9.0	9.0	22	58	133	561	222	112	37
29	16	11	9.0	9.0	---	22	66	220	673	211	117	41
30	17	10	9.0	9.0	---	22	57	352	797	205	94	42
31	14	---	9.0	9.0	---	23	---	311	---	254	88	---
TOTAL	591	366	282.9	279.0	251.8	437.4	1052	3565	13697	12611	4069	1495
MEAN	19.1	12.2	9.13	9.00	8.99	14.1	35.1	115	457	407	131	49.8
MAX	25	14	10	9.0	9.0	23	66	352	797	734	215	73
MIN	14	10	9.0	9.0	8.8	9.0	20	43	189	205	85	36
AC-FT	1170	726	561	553	499	868	2090	7070	27170	25010	8070	2970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1995, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	27.6	17.5	10.8	7.70	8.76	12.6	35.0	77.8	170	121	77.2	40.1	
MAX	59.4	31.8	17.9	12.5	20.5	29.2	85.4	148	457	407	161	83.0	
(WY)	1985	1985	1984	1987	1985	1985	1987	1987	1995	1995	1984	1983	
MIN	13.8	12.2	5.48	3.02	5.00	7.82	17.6	39.4	76.5	37.4	26.7	17.8	
(WY)	1993	1995	1988	1988	1992	1992	1984	1986	1992	1994	1994	1992	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1983 - 1995

ANNUAL TOTAL	11376.9	38697.1	
ANNUAL MEAN	31.2	106	49.4
HIGHEST ANNUAL MEAN			106
LOWEST ANNUAL MEAN			27.1
HIGHEST DAILY MEAN	186	Jun 3	797
LOWEST DAILY MEAN	8.8	Feb 2	8.8
ANNUAL SEVEN-DAY MINIMUM	9.0	Jan 27	9.0
INSTANTANEOUS PEAK FLOW			850
INSTANTANEOUS PEAK STAGE			6.18
ANNUAL RUNOFF (AC-FT)	22570	76760	35800
10 PERCENT EXCEEDS	76	371	128
50 PERCENT EXCEEDS	17	24	25
90 PERCENT EXCEEDS	9.0	9.0	7.4

a-Also occurred Jan 4-29, 1988.

b-Maximum gage height, 7.00 ft, Apr 19, 1987, from floodmarks.

RESERVOIRS IN SOUTH PLATTE RIVER BASIN

06695500 ELEVENMILE CANYON RESERVOIR.--Lat 38°54'19", long 105°28'30", in N¹/2SW¹/4 sec.20, T.13 S., R.72 W., Park County, Hydrologic Unit 10190001, at north end of dam on South Platte River, 8 mi southwest of Lake George. DRAINAGE AREA, 963 mi². PERIOD OF RECORD, October 1932 to current year. Prior to September 1938, published in WSP 1310. REVISED RECORDS, WSP 1730: Drainage area. GAGE, nonrecording gage read once daily. Datum of gage is 8,597.00 ft above sea level, (levels by Denver Board of Water Commissioners); gage readings published are to datum.

Reservoir is formed by concrete arch dam; storage began in October 1932; dam completed in November 1932. Spillway built 5.00 ft, higher, Aug. 1, 1957. Capacity, 97,780 acre-ft, between elevations 8,488.25 ft, invert of outlet pipe, and 8,597.00 ft, crest of spillway. Dead storage is negligible. Figures given represent total contents. Water is for municipal use by city of Denver. Records provided by Denver Board of Water Commissioners.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 111,200 acre-ft, Apr. 28, 1970, elevation, 8,600.82 ft; no contents at times in 1935.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 103,900 acre-ft, July 2-3, elevation, 8,598.76 ft; minimum observed, 98,560 acre-ft, Dec. 3, elevation, 8,597.23 ft.

06701000 CHEESMAN LAKE.--Lat 39°12'26", long 105°16'18", in NW¹/4SW¹/4 sec.6, T.10 S., R.70 W., Douglas County, Hydrologic Unit 10190002, at dam on South Platte River, 4.1 mi southwest of Deckers. DRAINAGE AREA, 1,752 mi². PERIOD OF RECORD, September 1900 to December 1901, September 1902 to current year. Prior to October 1938, published in WSP 1310. Published as Lake Cheesman prior to 1947. REVISED RECORDS, WSP 1730: Drainage area. GAGE, nonrecording gage read once daily. Datum of gage is 6,834.91 ft above sea level, (levels by Denver Board of Water Commissioners); gage readings published are to datum.

Reservoir is formed by masonry dam. Storage began September 1900. Dam completed about October 1902. Capacity, 79,060 acre-ft at gage height 212 ft, spillway crest, above sill of lowest gate. No dead storage. Figures given represent total contents. Water is for municipal use by city of Denver. Records provided by Denver Board of Water Commissioners.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 81,360 acre-ft, Apr. 29, 1970, gage height, 214.60 ft, minimum observed since appreciable storage was attained, 3,650 acre-ft, Apr. 20, 1933, gage height, 55.02 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 80,620 acre-ft, July 1, gage height, 213.77 ft; minimum observed, 48,850 acre-ft, Feb. 26, gage height, 172.29 ft.

MONTHEND ELEVATION IN FEET AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation a(feet)	Contents (acre-feet)	Change in contents (acre-feet)	Gage height (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	06695500	ELEVENMILE CANYON RESERVOIR		06701000	CHEESMAN LAKE	
Sept. 30.....	8,597.62	99,900	-	187.58	59,450	-
Oct. 31.....	8,597.46	99,350	-550	180.28	54,230	-5,220
Nov. 30.....	8,597.25	98,630	-720	181.80	55,300	+1,070
Dec. 31.....	8,597.37	99,040	+410	179.56	53,740	-1,560
CAL YR 1994....	-	-	+2,140	-	-	-13,550
Jan. 31.....	8,597.53	99,590	+550	175.11	50,710	-3,030
Feb. 28.....	8,597.44	99,280	-310	172.48	48,970	-1,740
Mar. 31.....	8,597.61	99,860	+580	179.06	53,390	+4,420
Apr. 30.....	8,597.79	100,500	+640	189.05	60,540	+7,150
May 31.....	8,597.48	99,420	-1,080	212.55	79,550	+19,010
June 30.....	8,598.60	103,300	+3,880	213.65	80,510	+960
July 31.....	8,598.07	101,500	-1,800	212.63	79,620	-890
Aug. 31.....	8,598.29	102,200	+700	210.35	77,630	-1,990
Sept. 30.....	8,597.78	100,400	-1,800	209.91	77,250	-380
WTR YR 1995....	-	-	+500	-	-	+17,800

a-Above sea level.

06701500 SOUTH PLATTE RIVER BELOW CHEESMAN LAKE, CO

LOCATION.--Lat 39°12'33", long 105°16'02", in SE¹/₄NW¹/₄ sec.6, T.10 S., R.70 W., Jefferson County, Hydrologic Unit 10190002, on left bank 1,400 ft downstream from toe of Cheesman Dam and 3.8 mi southwest of Deckers.

DRAINAGE AREA.--1,752 mi².

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1949. WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and Parshall flume. Datum of gage is 6,609.29 ft above sea level. Prior to May 14, 1956, at site 370 ft upstream at datum 0.50 ft, higher.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by minor transmountain diversion from Colorado River basin through Boreas Pass ditch, Elevenmile Canyon Reservoir and Cheesman Lake (see elsewhere in this report), diversions for irrigation of about 40,000 acres, and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	316	161	42	110	110	41	51	104	506	2100	548	812
2	316	160	42	110	110	38	51	104	565	2260	630	725
3	316	160	43	111	120	38	51	104	570	2060	717	589
4	270	122	42	111	126	37	51	76	590	1960	675	529
5	203	92	42	119	126	36	52	56	616	1880	667	531
6	179	79	42	132	126	36	63	57	633	1750	756	529
7	179	59	42	132	125	36	72	57	662	1580	713	467
8	179	44	42	132	124	36	71	57	694	1440	462	365
9	179	44	42	132	124	36	72	57	742	1370	401	327
10	209	44	42	132	124	36	73	57	752	1330	400	328
11	237	44	42	132	124	36	93	57	750	1330	400	328
12	249	44	42	132	124	36	126	57	699	1330	402	329
13	298	44	42	123	124	36	126	57	680	1360	402	329
14	289	44	79	111	124	36	126	56	699	1500	400	364
15	230	44	113	111	124	36	126	56	738	1570	446	488
16	230	43	122	111	124	36	126	56	859	1610	500	523
17	230	44	138	111	124	37	126	56	1160	1810	525	522
18	230	43	138	111	125	37	126	56	1490	1780	524	492
19	197	43	138	111	125	39	150	56	1640	1750	522	369
20	154	43	95	111	124	39	177	56	1780	1590	472	245
21	154	42	70	111	124	39	177	56	1710	1530	441	174
22	154	42	111	111	124	39	177	54	1610	1430	513	116
23	156	42	111	111	104	44	177	77	1560	1330	593	115
24	157	42	110	111	91	51	164	135	1560	1260	614	117
25	159	42	110	110	91	51	148	207	1530	1190	669	117
26	160	42	110	110	91	51	148	257	1490	1090	711	117
27	161	42	110	110	65	51	120	289	1450	949	712	118
28	162	42	110	110	45	51	103	329	1470	824	740	144
29	162	42	110	110	---	51	103	341	1610	733	784	156
30	162	42	110	110	---	51	103	338	1830	673	814	171
31	162	---	110	110	---	51	---	377	---	621	814	---
TOTAL	6439	1821	2542	3599	3192	1268	3329	3752	32645	44990	17967	10536
MEAN	208	60.7	82.0	116	114	40.9	111	121	1088	1451	580	351
MAX	316	161	138	132	126	51	177	377	1830	2260	814	812
MIN	154	42	42	110	45	36	51	54	506	621	400	115
AC-FT	12770	3610	5040	7140	6330	2520	6600	7440	64750	89240	35640	20900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1995, BY WATER YEAR (WY)

	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	127	65.7	47.4	52.8	51.6	51.9	145	282	334	358	343	199																																																											
MAX	380	266	118	130	143	208	932	1716	1088	1451	984	431																																																											
(WY)	1985	1985	1991	1990	1990	1986	1942	1970	1995	1995	1984	1990																																																											
MIN	12.9	6.33	5.26	5.26	2.76	3.11	2.00	11.0	38.5	53.5	66.7	33.5																																																											
(WY)	1965	1960	1926	1926	1957	1957	1957	1938	1989	1967	1978	1978																																																											

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1925 - 1995
ANNUAL TOTAL	71500	132080	
ANNUAL MEAN	196	362	172
HIGHEST ANNUAL MEAN			450
LOWEST ANNUAL MEAN			60.1
HIGHEST DAILY MEAN	715	May 25	4580
LOWEST DAILY MEAN	^a 42	Nov 21	^c 1.6
ANNUAL SEVEN-DAY MINIMUM	42	Nov 21	1.6
INSTANTANEOUS PEAK FLOW		2310	4640
INSTANTANEOUS PEAK STAGE		8.60	13.40
INSTANTANEOUS LOW FLOW			1.6
ANNUAL RUNOFF (AC-FT)	141800	262000	124700
10 PERCENT EXCEEDS	374	1290	429
50 PERCENT EXCEEDS	138	126	92
90 PERCENT EXCEEDS	51	42	18

a-Also occurred Nov 22 to Dec 2, and Dec 4-13.

b-Also occurred Mar 6-16.

c-Also occurred Apr 9-14, 1957.

FRASER RIVER BASIN

06704500 DUCK CREEK NEAR GRANT, CO

LOCATION.--Lat 39°31'49", long 105°43'50", in SE¹/4SW¹/4 sec.12, T.6 S., R.75 W., Park County, Hydrologic Unit 10190002, on left bank 570 ft upstream from Geneva Creek Road, and 650 ft upstream from the confluence with Geneva Creek.

DRAINAGE AREA.--7.78 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to September 1995.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 10,000 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 13 to Jan. 31, Feb. 11-20, Mar. 6-10, and Apr. 1-4. Records fair except for estimated daily discharges, which are poor. Flow partially regulated by Duck Lake.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.95	1.4	.62	.60	.51	.65	.88	1.8	6.2	40	16	7.3
2	.91	1.3	.62	.60	.50	.64	.88	2.2	6.9	37	16	7.0
3	.90	1.4	.64	.58	.52	.63	.94	2.0	8.3	37	16	6.7
4	.96	1.4	.66	.56	.52	.64	1.0	1.8	8.9	35	15	6.4
5	1.0	1.3	.66	.54	.51	.60	1.1	2.0	10	33	15	6.2
6	.99	1.3	.68	.56	.52	.60	1.2	2.1	12	32	14	6.2
7	.97	1.3	.68	.58	.49	.62	1.2	1.7	13	32	13	6.1
8	1.0	1.4	.70	.62	.51	.60	1.4	1.5	13	32	13	6.1
9	1.0	1.3	.68	.62	.53	.62	1.3	1.4	14	32	13	6.2
10	1.0	1.3	.66	.61	.52	.62	1.1	1.7	14	32	12	5.9
11	1.1	1.1	.64	.57	.50	.63	.97	2.0	14	32	12	5.7
12	1.1	1.2	.62	.57	.46	.63	.88	2.3	16	32	11	5.3
13	1.2	1.2	.64	.58	.46	.59	1.1	2.4	18	32	11	5.0
14	1.2	1.3	.64	.61	.47	.67	1.1	3.4	22	33	11	5.0
15	1.2	1.2	.62	.62	.48	.88	.94	4.6	29	31	10	4.8
16	1.2	1.1	.60	.64	.49	1.0	1.0	4.2	33	30	10	4.7
17	1.1	1.1	.62	.62	.50	.89	.91	3.6	39	29	9.9	4.6
18	1.2	1.1	.64	.58	.50	.91	.89	3.5	51	28	9.9	4.7
19	1.2	1.0	.68	.58	.52	.88	.94	4.3	74	26	9.9	4.5
20	1.2	.92	.70	.58	.55	.75	.78	4.3	78	25	9.6	4.7
21	1.3	.88	.70	.56	.62	.92	.77	4.4	70	24	10	4.9
22	1.3	.82	.67	.54	.64	1.0	.73	4.8	70	23	10	4.7
23	1.2	.84	.66	.54	.66	1.0	.75	5.1	66	22	9.7	4.4
24	1.3	.88	.65	.54	.70	.91	.80	4.6	58	21	9.0	4.3
25	1.3	.94	.64	.54	.65	.87	.91	4.6	52	20	8.9	4.2
26	1.3	.92	.66	.56	.67	.87	1.1	4.4	49	19	8.6	4.1
27	1.3	.84	.65	.56	.63	.88	1.4	5.0	48	19	8.3	4.0
28	1.4	.78	.64	.54	.67	.94	1.7	4.8	49	18	8.3	4.0
29	1.3	.70	.65	.52	---	.93	1.8	4.8	47	18	8.0	4.0
30	1.3	.62	.67	.50	---	.92	1.6	5.0	44	18	7.7	3.8
31	1.4	---	.66	.50	---	.92	---	5.4	---	17	7.5	---
TOTAL	35.78	32.84	20.25	17.72	15.30	24.21	32.07	105.7	1033.3	859	343.3	155.5
MEAN	1.15	1.09	.65	.57	.55	.78	1.07	3.41	34.4	27.7	11.1	5.18
MAX	1.4	1.4	.70	.64	.70	1.0	1.8	5.4	78	40	16	7.3
MIN	.90	.62	.60	.50	.46	.59	.73	1.4	6.2	17	7.5	3.8
AC-FT	71	65	40	35	30	48	64	210	2050	1700	681	308

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

	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MEAN	1.15	1.09	.65	.57	.55	.78	1.07	3.41	34.4	27.7	11.1	5.18
MAX	1.15	1.09	.65	.57	.55	.78	1.07	3.41	34.4	27.7	11.1	5.18
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	1.15	1.09	.65	.57	.55	.78	1.07	3.41	34.4	27.7	11.1	5.18
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS

FOR 1995 WATER YEAR

ANNUAL TOTAL	2674.97
ANNUAL MEAN	7.33
HIGHEST DAILY MEAN	78 Jun 20
LOWEST DAILY MEAN	a .46 Feb 12
ANNUAL SEVEN-DAY MINIMUM	.48 Feb 11
INSTANTANEOUS PEAK FLOW	97 Jun 19
INSTANTANEOUS PEAK STAGE	1.97 Jun 19
ANNUAL RUNOFF (AC-FT)	5310
10 PERCENT EXCEEDS	24
50 PERCENT EXCEEDS	1.2
90 PERCENT EXCEEDS	.58

a-Also occurred Feb 13.

06704500 DUCK CREEK NEAR GRANT, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1995 to current year.

INSTRUMENTATION.--Water-quality monitor since May 1995. Values recorded every 15 minutes.

REMARKS.--Water temperature and specific conductance records are fair.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 65 microsiemens, June 4; minimum, 36 microsiemens June 22, 23, 27, 28, and July 8.

WATER TEMPERATURE: Maximum, 13.6°C, August 8; minimum, 0.2°C, on May 10, 17.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	59	39	41	48
2	---	---	---	---	---	---	---	---	60	39	41	48
3	---	---	---	---	---	---	---	---	60	39	41	47
4	---	---	---	---	---	---	---	---	63	39	41	47
5	---	---	---	---	---	---	---	---	63	40	41	46
6	---	---	---	---	---	---	---	---	63	40	41	47
7	---	---	---	---	---	---	---	---	61	39	41	47
8	---	---	---	---	---	---	---	---	60	38	41	46
9	---	---	---	---	---	---	---	---	61	39	41	46
10	---	---	---	---	---	---	---	---	61	38	43	47
11	---	---	---	---	---	---	---	---	62	38	44	46
12	---	---	---	---	---	---	---	58	60	38	43	47
13	---	---	---	---	---	---	---	57	57	39	43	49
14	---	---	---	---	---	---	---	56	56	39	42	49
15	---	---	---	---	---	---	---	52	51	39	42	48
16	---	---	---	---	---	---	---	53	51	39	42	47
17	---	---	---	---	---	---	---	55	47	40	43	48
18	---	---	---	---	---	---	---	56	45	41	44	49
19	---	---	---	---	---	---	---	57	42	40	44	50
20	---	---	---	---	---	---	---	55	40	39	45	50
21	---	---	---	---	---	---	---	56	39	40	46	50
22	---	---	---	---	---	---	---	56	37	40	46	47
23	---	---	---	---	---	---	---	56	37	40	46	46
24	---	---	---	---	---	---	---	56	38	40	45	47
25	---	---	---	---	---	---	---	57	39	40	44	47
26	---	---	---	---	---	---	---	58	39	41	45	47
27	---	---	---	---	---	---	---	59	38	41	45	47
28	---	---	---	---	---	---	---	58	37	42	45	47
29	---	---	---	---	---	---	---	58	37	42	45	46
30	---	---	---	---	---	---	---	59	38	42	45	47
31	---	---	---	---	---	---	---	60	---	42	47	---
MEAN	---	---	---	---	---	---	---	---	50	40	43	47

PLATTE RIVER BASIN

06704500 DUCK CREEK NEAR GRANT, CO--Continued

TEMPERATURE, WATER (DEG. C) WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
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	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	8.5	1.8	7.5	3.2	13.3	4.7	12.9	6.7
2	---	---	---	---	7.1	3.0	6.7	3.0	13.1	5.0	12.9	7.5
3	---	---	---	---	6.7	2.4	7.0	3.4	10.2	5.1	13.5	7.7
4	---	---	---	---	7.9	2.6	7.8	2.8	11.0	5.5	11.9	7.6
5	---	---	---	---	10.5	3.0	10.9	2.9	12.8	5.0	12.8	7.5
6	---	---	---	---	10.3	2.0	11.5	2.8	12.6	5.1	12.8	8.3
7	---	---	---	---	7.5	2.0	10.7	3.0	13.2	5.6	10.7	8.6
8	---	---	---	---	10.2	2.5	8.4	3.3	13.6	6.0	10.4	6.9
9	---	---	---	---	9.4	1.5	10.7	3.6	10.8	6.2	9.8	6.8
10	---	---	6.6	.2	9.6	1.7	9.1	3.7	12.2	5.8	11.8	6.2
11	---	---	3.9	.6	11.6	1.8	11.3	3.7	13.3	7.3	10.0	6.4
12	---	---	5.7	1.0	12.3	2.2	11.9	3.8	12.4	6.6	10.6	4.8
13	---	---	7.0	.4	10.4	2.3	11.0	3.9	13.2	7.1	10.1	5.6
14	---	---	8.3	1.2	12.3	2.2	6.7	4.3	10.6	6.9	9.6	6.2
15	---	---	8.0	.8	8.1	2.5	10.9	3.5	13.5	5.5	11.0	5.3
16	---	---	3.1	.9	10.1	2.3	11.8	3.8	12.0	6.0	9.6	5.8
17	---	---	1.8	.2	7.2	3.1	8.6	4.3	11.6	7.1	9.0	5.6
18	---	---	4.9	.6	10.2	2.0	7.9	5.0	13.5	6.5	8.8	6.4
19	---	---	7.8	1.1	9.8	2.7	10.4	4.5	10.5	8.1	9.1	6.1
20	---	---	5.0	1.3	9.4	2.8	9.2	4.1	10.5	6.6	9.7	5.1
21	---	---	6.3	1.3	9.8	2.8	9.9	4.2	11.4	7.1	5.3	2.7
22	---	---	5.8	1.6	9.6	3.0	11.0	4.0	9.9	7.2	6.4	1.8
23	---	---	3.4	1.0	7.1	2.8	11.4	4.2	10.4	7.2	5.9	2.4
24	---	---	4.5	.5	7.9	2.6	10.3	4.0	13.1	7.2	5.5	3.9
25	---	---	2.4	.6	9.2	2.4	12.5	4.1	10.4	7.6	7.4	2.4
26	---	---	4.5	.4	10.0	2.6	12.9	4.3	12.8	6.5	7.5	3.2
27	---	---	6.3	1.5	9.9	2.8	13.1	4.5	10.5	7.5	7.8	3.8
28	---	---	5.2	1.3	7.3	3.4	12.9	4.6	9.7	6.6	6.2	4.2
29	---	---	4.0	.9	4.2	3.2	10.5	5.4	13.1	6.6	7.0	4.1
30	---	---	4.6	1.3	6.0	3.0	10.6	5.3	11.0	6.7	6.8	4.2
31	---	---	7.1	2.0	---	---	13.0	5.3	12.8	6.2	---	---
MONTH	---	---	---	---	12.3	1.5	13.1	2.8	13.6	4.7	13.5	1.8

06704500 DUCK CREEK NEAR GRANT, CO--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--July to September 1995.

GAGE.--Tipping bucket rain gage (no wind vanes used) with satellite telemetry. Elevation of gage is 10,100 ft above sea level, from topographic map.

REMARKS.--Records poor. Data not published for periods of missing record.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 0.52 in., Aug. 23, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 0.52 in., Aug. 23, 1995.

PRECIPITATION INCHES, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	.00	---
2	---	---	---	---	---	---	---	---	---	---	.00	---
3	---	---	---	---	---	---	---	---	---	---	.29	.03
4	---	---	---	---	---	---	---	---	---	---	.01	.02
5	---	---	---	---	---	---	---	---	---	---	.00	.07
6	---	---	---	---	---	---	---	---	---	---	.00	.06
7	---	---	---	---	---	---	---	---	---	---	.00	.15
8	---	---	---	---	---	---	---	---	---	---	.00	.11
9	---	---	---	---	---	---	---	---	---	---	.02	.26
10	---	---	---	---	---	---	---	---	---	---	.00	.00
11	---	---	---	---	---	---	---	---	---	---	.00	.04
12	---	---	---	---	---	---	---	---	---	---	.11	.00
13	---	---	---	---	---	---	---	---	---	---	.00	.00
14	---	---	---	---	---	---	---	---	---	---	.10	.02
15	---	---	---	---	---	---	---	---	---	---	.00	.00
16	---	---	---	---	---	---	---	---	---	---	.00	.00
17	---	---	---	---	---	---	---	---	---	---	.01	.00
18	---	---	---	---	---	---	---	---	---	.02	.36	.09
19	---	---	---	---	---	---	---	---	---	.00	.03	.01
20	---	---	---	---	---	---	---	---	---	.02	.19	.16
21	---	---	---	---	---	---	---	---	---	.00	.39	.01
22	---	---	---	---	---	---	---	---	---	.00	.16	.00
23	---	---	---	---	---	---	---	---	---	.00	.52	.02
24	---	---	---	---	---	---	---	---	---	.00	.00	.09
25	---	---	---	---	---	---	---	---	---	.00	.15	.22
26	---	---	---	---	---	---	---	---	---	.00	.00	.03
27	---	---	---	---	---	---	---	---	---	.00	.05	.00
28	---	---	---	---	---	---	---	---	---	.00	.07	.04
29	---	---	---	---	---	---	---	---	---	.00	.01	.06
30	---	---	---	---	---	---	---	---	---	.39	.01	.00
31	---	---	---	---	---	---	---	---	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	---	---	---	2.48	---

FRASER RIVER BASIN

06705500 GENEVA CREEK AT GRANT, CO

LOCATION.--Lat 39°28'21", long 105°40'58", in NE¹/4NE¹/4 sec.5, T.7 S., R.74 W., Park County, Hydrologic Unit 10190002, on right bank 0.2 mi downstream from Geneva Creek Campground, and 1.5 mi upstream from Grant.

DRAINAGE AREA.--74.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1908 to March 1918, published in WSP 1310. Prior to 1911, published as "at Sullivan's Ranch, near Grant". October 1994 to September 1995.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,760 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1-7, Nov. 9 to Apr. 26, and Sept. 1-2, 11-12. Records fair except for estimated daily discharges, which are poor. Natural flow may be affected at times by Duck Lake.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	20	14	12	7.6	11	11	17	67	389	165	70
2	20	18	14	12	7.8	11	12	19	82	347	151	66
3	19	18	14	11	8.0	10	13	19	96	335	147	60
4	20	20	14	11	8.0	10	14	18	101	301	146	57
5	22	25	15	11	8.0	10	15	20	130	272	135	56
6	21	23	15	11	7.8	10	16	20	153	298	128	58
7	20	19	15	12	7.4	10	16	20	155	342	123	58
8	22	17	16	13	7.8	10	17	18	154	388	121	59
9	21	14	14	12	8.0	10	15	18	149	413	118	60
10	21	13	13	11	8.0	11	13	19	127	435	113	56
11	20	14	12	10	7.6	11	11	22	134	447	109	54
12	19	15	11	10	7.4	10	10	22	188	443	110	50
13	19	15	12	10	7.4	9.6	11	22	311	416	114	47
14	18	16	14	11	7.6	10	12	27	411	431	110	46
15	20	15	13	11	7.8	12	10	39	558	375	100	45
16	20	14	11	10	8.0	13	10	41	646	343	91	42
17	20	14	12	9.6	8.2	12	9.8	35	746	327	87	41
18	20	14	13	8.6	8.2	12	9.6	34	746	330	86	44
19	21	13	13	8.4	8.4	12	10	41	717	306	88	43
20	19	12	13	8.4	8.6	10	9.4	43	716	294	83	44
21	20	12	14	8.2	9.4	12	9.0	46	711	270	101	50
22	20	11	14	8.2	9.8	13	8.6	53	677	245	118	46
23	19	12	14	8.0	10	13	9.0	58	593	230	109	44
24	19	13	14	7.8	11	12	9.8	51	521	217	102	44
25	18	14	13	7.6	10	12	11	48	474	208	96	42
26	18	17	13	8.0	10	11	12	48	477	201	95	42
27	19	16	13	7.8	10	12	15	52	514	189	86	41
28	18	15	12	7.8	11	13	18	49	522	179	87	40
29	18	14	12	7.6	---	13	19	53	492	172	85	42
30	19	13	13	7.4	---	12	18	56	439	176	77	40
31	18	---	13	7.6	---	12	---	59	---	199	72	---
TOTAL	609	466	413	299.0	238.8	349.6	374.2	1087	11807	9518	3353	1487
MEAN	19.6	15.5	13.3	9.65	8.53	11.3	12.5	35.1	394	307	108	49.6
MAX	22	25	16	13	11	13	19	59	746	447	165	70
MIN	18	11	11	7.4	7.4	9.6	8.6	17	67	172	72	40
AC-FT	1210	924	819	593	474	693	742	2160	23420	18880	6650	2950

SUMMARY STATISTICS

FOR 1995 WATER YEAR

ANNUAL TOTAL	30001.6
ANNUAL MEAN	82.2
HIGHEST DAILY MEAN	a-746 Jun 17
LOWEST DAILY MEAN	b-7.4 Jan 30
ANNUAL SEVEN-DAY MINIMUM	7.7 Jan 27
INSTANTANEOUS PEAK FLOW	1070 Jun 17
INSTANTANEOUS PEAK STAGE	7.24 Jun 17
ANNUAL RUNOFF (AC-FT)	59510
10 PERCENT EXCEEDS	296
50 PERCENT EXCEEDS	18
90 PERCENT EXCEEDS	9.0

a-Also occurred Jun 18.

b-Also occurred Feb 7, 12, and 13.

06705500 GENEVA CREEK AT GRANT, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1995 to current year.

WATER TEMPERATURE: May 1995 to current year.

INSTRUMENTATION.--Water-quality monitor since May 1995. Values recorded at 15 minute intervals.

REMARKS.--Water temperature records are fair. Specific conductance records are good. Daily maximum and minimum specific conductance data available in District office. Turbidity data available in District office.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 110 microsiemens, May 11; minimum, 33 microsiemens June 21-23.

WATER TEMPERATURE: Maximum, 14.4°C, August 8; minimum, 0.0°C, on May 17, 18, and September 22.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	76	46	51	---
2	---	---	---	---	---	---	---	---	70	46	52	---
3	---	---	---	---	---	---	---	---	68	47	53	69
4	---	---	---	---	---	---	---	---	66	47	53	69
5	---	---	---	---	---	---	---	---	61	49	54	69
6	---	---	---	---	---	---	---	---	55	48	55	70
7	---	---	---	---	---	---	---	---	51	46	55	69
8	---	---	---	---	---	---	---	---	53	44	56	69
9	---	---	---	---	---	---	---	---	54	43	57	68
10	---	---	---	---	---	---	---	---	57	42	58	68
11	---	---	---	---	---	---	---	---	56	---	59	---
12	---	---	---	---	---	---	---	96	52	41	60	---
13	---	---	---	---	---	---	---	87	45	41	61	71
14	---	---	---	---	---	---	---	85	42	41	62	72
15	---	---	---	---	---	---	---	74	40	42	62	72
16	---	---	---	---	---	---	---	71	40	43	62	74
17	---	---	---	---	---	---	---	78	39	44	62	74
18	---	---	---	---	---	---	---	89	40	43	62	74
19	---	---	---	---	---	---	---	86	40	44	62	74
20	---	---	---	---	---	---	---	77	38	44	63	74
21	---	---	---	---	---	---	---	75	38	45	61	70
22	---	---	---	---	---	---	---	72	38	46	59	72
23	---	---	---	---	---	---	---	70	37	46	59	72
24	---	---	---	---	---	---	---	78	41	47	61	72
25	---	---	---	---	---	---	---	79	41	48	62	72
26	---	---	---	---	---	---	---	83	41	49	62	73
27	---	---	---	---	---	---	---	82	40	49	64	73
28	---	---	---	---	---	---	---	77	39	50	63	74
29	---	---	---	---	---	---	---	82	40	50	63	74
30	---	---	---	---	---	---	---	83	44	51	65	74
31	---	---	---	---	---	---	---	80	---	49	65	---
MEAN	---	---	---	---	---	---	---	---	48	---	59	---

06705500 GENEVA CREEK AT GRANT, CO--Continued

TEMPERATURE, WATER (DEG. C) WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
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	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	9.6	2.3	8.2	3.8	13.3	5.4	---	---
2	---	---	---	---	8.1	3.0	7.4	3.8	13.4	5.8	---	---
3	---	---	---	---	7.4	2.7	7.5	4.0	11.2	6.0	13.9	8.8
4	---	---	---	---	7.9	2.8	8.0	3.3	11.9	6.4	13.2	8.6
5	---	---	---	---	10.2	2.7	11.7	3.2	12.6	5.8	13.0	8.4
6	---	---	---	---	9.4	1.7	12.5	3.6	13.0	6.0	12.7	9.2
7	---	---	---	---	7.6	1.8	11.4	3.8	13.1	6.7	11.8	9.5
8	---	---	---	---	8.5	2.4	10.3	3.9	14.4	7.0	10.7	7.5
9	---	---	7.3	1.4	8.4	1.4	11.5	4.2	11.7	7.5	10.6	7.1
10	---	---	6.6	1.2	8.5	1.5	10.4	4.3	13.2	6.9	10.9	6.6
11	---	---	5.9	1.3	10.6	1.7	---	---	14.0	8.9	---	---
12	---	---	8.2	2.0	10.9	2.2	13.0	4.5	13.4	8.2	---	---
13	---	---	8.0	.2	9.1	2.3	11.8	4.6	13.7	8.6	10.3	5.5
14	---	---	10.6	2.3	9.8	2.1	8.0	5.1	11.5	8.5	9.8	6.4
15	---	---	10.3	1.5	7.2	2.5	11.9	3.9	13.8	6.4	10.5	5.0
16	---	---	4.5	1.4	8.7	2.3	12.0	4.7	13.7	7.3	9.5	5.6
17	---	---	2.2	.0	6.9	3.1	9.9	5.3	12.8	8.5	9.3	5.5
18	---	---	6.3	.0	9.0	1.8	9.2	6.2	14.2	7.5	8.7	6.7
19	---	---	8.7	1.5	9.6	1.9	11.5	5.2	12.2	9.7	8.5	6.0
20	---	---	6.9	1.9	9.8	2.1	10.3	4.8	11.9	7.8	8.1	3.9
21	---	---	7.9	1.7	10.3	2.3	10.8	4.9	12.4	8.4	3.9	1.3
22	---	---	7.0	2.1	10.6	2.6	11.3	4.6	12.3	8.4	4.6	.0
23	---	---	4.5	1.2	7.8	2.8	11.5	4.8	12.7	8.5	4.8	1.0
24	---	---	5.6	.7	8.5	2.6	10.8	4.5	13.4	8.2	4.3	2.7
25	---	---	3.1	.7	10.0	2.3	12.8	4.7	11.8	8.7	6.1	.9
26	---	---	5.8	.4	11.2	2.7	13.0	5.0	13.0	7.4	6.4	2.1
27	---	---	8.4	2.0	11.0	3.1	13.4	5.3	11.9	8.8	7.2	3.0
28	---	---	5.8	1.7	8.2	3.9	13.3	5.4	11.2	7.5	6.2	3.6
29	---	---	4.7	1.5	5.0	3.6	11.9	6.4	13.3	7.3	6.4	3.5
30	---	---	5.4	2.1	6.7	3.5	11.6	6.2	12.2	7.8	5.5	3.4
31	---	---	9.6	2.6	---	---	12.8	6.0	13.2	7.1	---	---
MONTH	---	---	---	---	11.2	1.4	---	---	14.4	5.4	---	---

06705500 GENEVA CREEK AT GRANT, CO--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--May to September 1995.

GAGE.--Tipping bucket rain gage (no wind vanes used) with satellite telemetry. Elevation of gage is 8,760 ft above sea level, from topographic map.

REMARKS.--Records poor. Data not published for periods of missing record.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 0.92 in., May 18, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 0.92 in., May 18, 1995.

PRECIPITATION INCHES, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.00	.02	.00	---
2	---	---	---	---	---	---	---	---	.16	.00	.00	---
3	---	---	---	---	---	---	---	---	.02	.02	.03	.00
4	---	---	---	---	---	---	---	---	.03	.01	.02	.00
5	---	---	---	---	---	---	---	---	.00	.00	.00	.22
6	---	---	---	---	---	---	---	---	.00	.00	.00	.06
7	---	---	---	---	---	---	---	---	.00	.00	.00	.03
8	---	---	---	---	---	---	---	---	.04	.00	.00	.07
9	---	---	---	---	---	---	---	.05	.28	.00	.20	.04
10	---	---	---	---	---	---	---	.12	.00	.00	.00	.00
11	---	---	---	---	---	---	---	.18	.00	---	.11	---
12	---	---	---	---	---	---	---	.00	.00	.00	.05	---
13	---	---	---	---	---	---	---	.00	.00	.05	.00	.00
14	---	---	---	---	---	---	---	.00	.00	.38	.05	.00
15	---	---	---	---	---	---	---	.00	.04	.00	.00	.00
16	---	---	---	---	---	---	---	.22	.00	.67	.00	.00
17	---	---	---	---	---	---	---	.15	.31	.04	.00	.00
18	---	---	---	---	---	---	---	.92	.00	.02	.00	.02
19	---	---	---	---	---	---	---	.22	.00	.00	.04	.00
20	---	---	---	---	---	---	---	.01	.00	.00	.15	.06
21	---	---	---	---	---	---	---	.00	.00	.00	.31	---
22	---	---	---	---	---	---	---	.01	.00	.00	.02	---
23	---	---	---	---	---	---	---	.02	.16	.08	.20	.31
24	---	---	---	---	---	---	---	.29	.02	.00	.10	.08
25	---	---	---	---	---	---	---	.35	.00	.00	.14	.02
26	---	---	---	---	---	---	---	.15	.00	.00	.00	.00
27	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
28	---	---	---	---	---	---	---	.04	.15	.00	.00	.00
29	---	---	---	---	---	---	---	.88	.34	.00	.00	.03
30	---	---	---	---	---	---	---	.20	.31	.27	.03	.00
31	---	---	---	---	---	---	---	.06	---	.00	.01	---
TOTAL	---	---	---	---	---	---	---	---	1.86	---	1.46	---

06706000 NORTH FORK SOUTH PLATTE RIVER BELOW GENEVA CREEK, AT GRANT, CO

LOCATION.--Lat 39°27'26", long 105°39'29", in NW¹/₄ sec.10, T.7 S., R.74 W., Park County, Hydrologic Unit 10190002, on left bank at Grant, 1,550 ft downstream from Geneva Creek, and 1.3 mi downstream from east portal of Harold D. Roberts tunnel.

DRAINAGE AREA.--127 mi².

PERIOD OF RECORD.--July 1908 to November 1913 (published as "at Cassells"), June 1942 to current year. Monthly discharge only for some periods, published in WSP 1310. December 1913 to March 1918, equivalent records may be obtained by summation of flow of North Fork South Platte River at Grant (above Geneva Creek) and Geneva Creek at Grant.

REVISED RECORDS.--WSP 956: Drainage area at site at Cassells. WSP 1116: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Datum of gage is 8,560.81 ft above sea level, adjustment of 1960. See WSP 1710 or 1730 for history of changes prior to July 23, 1948. July 23, 1948, to Nov. 15, 1968, water-stage recorder at site 50 ft downstream at datum 3.49 ft, lower.

REMARKS.--No estimated daily discharges. Records good. Small diversions upstream from station for irrigation of about 200 acres. Diversions from Colorado River basin to North Fork South Platte River upstream from station through Harold D. Roberts tunnel (see elsewhere in this report).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	30	145	99	102	127	245	261	158	511	224	270
2	34	30	195	99	105	138	248	266	184	459	204	182
3	34	33	195	99	106	138	249	264	217	438	196	179
4	37	38	195	100	105	135	248	217	231	397	193	172
5	35	45	195	99	103	134	249	162	288	359	185	172
6	33	34	195	99	102	141	265	104	351	379	176	174
7	34	30	194	99	102	128	286	100	360	421	170	124
8	34	35	164	99	102	114	287	96	345	467	167	87
9	34	46	111	99	102	114	285	94	339	498	168	87
10	33	47	109	99	102	106	256	100	295	524	158	81
11	32	42	106	99	106	93	240	106	300	530	155	78
12	31	32	105	99	108	93	244	108	366	537	158	75
13	30	44	106	98	106	93	251	107	464	516	162	68
14	30	43	105	98	105	97	254	117	549	524	157	67
15	33	75	105	99	105	102	251	169	719	467	147	66
16	32	100	105	99	104	114	253	205	765	437	131	62
17	32	106	108	99	103	139	250	129	846	421	124	61
18	31	105	108	99	102	146	249	73	973	412	121	65
19	32	106	112	99	102	147	248	87	872	386	124	66
20	31	107	107	99	98	145	248	93	897	374	117	69
21	32	106	104	99	104	150	247	99	870	343	167	77
22	32	100	105	99	105	150	249	113	852	318	219	70
23	31	100	105	99	102	147	250	119	767	300	203	70
24	30	130	105	97	101	163	251	108	659	280	204	69
25	103	144	106	99	100	186	250	106	619	270	194	65
26	163	143	103	100	100	185	256	107	614	260	190	65
27	31	139	102	100	129	155	258	115	636	248	178	62
28	29	133	102	99	148	110	261	112	651	234	217	62
29	28	108	100	99	---	240	262	121	622	225	286	64
30	31	110	99	100	---	239	262	128	575	228	333	62
31	32	---	99	101	---	232	---	138	---	252	318	---
TOTAL	1199	2341	3895	3071	2959	4401	7652	4124	16384	12015	5746	2871
MEAN	38.7	78.0	126	99.1	106	142	255	133	546	388	185	95.7
MAX	163	144	195	101	148	240	287	266	973	537	333	270
MIN	28	30	99	97	98	93	240	73	158	225	117	61
AC-FT	2380	4640	7730	6090	5870	8730	15180	8180	32500	23830	11400	5690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1995, BY WATER YEAR (WY)

MEAN	65.2	60.4	51.9	47.1	43.7	38.6	52.4	151	294	236	159	89.5
MAX	340	189	130	161	132	142	255	303	592	613	450	277
(WY)	1979	1979	1990	1981	1981	1995	1995	1970	1993	1993	1978	1993
MIN	20.5	19.6	11.4	8.57	8.43	10.6	18.2	67.4	74.0	49.5	34.6	26.0
(WY)	1945	1944	1944	1944	1944	1944	1944	1963	1963	1963	1954	1944

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1909 - 1995
ANNUAL TOTAL	52012	66658	
ANNUAL MEAN	142	183	^a 71.6
HIGHEST ANNUAL MEAN			239
LOWEST ANNUAL MEAN			35.9
HIGHEST DAILY MEAN	440	973	973
LOWEST DAILY MEAN	28	28	6.5
ANNUAL SEVEN-DAY MINIMUM	30	30	7.2
INSTANTANEOUS PEAK FLOW		1160	1160
INSTANTANEOUS PEAK STAGE		2.48	^b 2.48
INSTANTANEOUS LOW FLOW			6.5
ANNUAL RUNOFF (AC-FT)	103200	132200	^a 51870
10 PERCENT EXCEEDS	252	376	276
50 PERCENT EXCEEDS	108	114	61
90 PERCENT EXCEEDS	38	38	18

a-Adjusted for inflow from Harold D. Roberts tunnel since 1964.

b-Maximum gage height, 4.72 ft, Feb 11, 1952, site and datum then in use.

06709000 PLUM CREEK NEAR SEDALIA, CO

LOCATION.--Lat 39°26'18", long 104°58'57", in NE¹/4SE¹/4 sec.15, T.7 S., R.68 W., Douglas County, Hydrologic Unit 10190002, on right bank, on south side of County Road No. 20 bridge over Plum Creek, 1.0 mi west of Sedalia, and 1.4 mi downstream from the confluence of East and West Plum Creeks.

DRAINAGE AREA.--274 mi².

PERIOD OF RECORD.--June 1942 to September 1947. August 1990 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,720 ft above sea level, from topographic map. Aug. 1942 to Sept. 1947, water-stage recorder at site 150 ft upstream at different datum. Prior to Aug. 1942, nonrecording gage at bridge.

REMARKS.--Estimated daily discharges: Nov. 27 to Feb. 27, Apr. 6-25, May 2 to June 3, June 21-28, and Aug. 10-16. Records poor. Diversions upstream from station for irrigation. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

COOPERATION.--U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	3.5	9.3	7.7	7.7	9.5	5.0	40	250	116	16	3.8
2	.14	3.3	9.8	8.0	7.6	8.9	5.0	40	180	105	17	3.1
3	.15	3.5	10	7.6	7.5	9.9	5.0	38	150	95	14	3.0
4	.19	3.9	11	7.3	7.3	8.6	6.1	37	173	89	14	2.9
5	.74	4.4	11	7.6	7.4	7.2	14	38	130	89	13	2.5
6	1.0	4.1	9.4	7.9	7.2	10	16	50	106	81	9.6	2.5
7	1.1	4.4	8.0	7.3	7.1	12	15	62	93	72	10	3.4
8	1.5	4.7	7.0	7.0	7.5	9.9	17	74	93	64	10	4.4
9	.78	6.1	8.8	6.7	8.1	11	18	85	102	58	13	8.4
10	1.4	7.8	10	6.5	8.5	9.4	18	90	90	52	8.0	12
11	3.1	6.1	11	6.2	8.7	8.3	19	105	82	49	4.9	10
12	2.4	5.1	10	6.0	8.2	8.6	20	120	76	46	4.8	9.2
13	.55	6.0	10	6.2	8.3	8.1	23	133	68	43	4.4	5.6
14	1.3	6.1	9.3	6.6	8.5	6.9	24	149	62	42	4.1	4.1
15	2.8	7.7	9.6	6.7	8.7	5.8	23	170	53	57	4.1	3.7
16	.88	9.9	9.8	6.6	8.6	5.7	25	200	49	50	4.0	3.0
17	3.4	8.8	9.9	6.7	8.7	5.5	26	480	46	48	3.7	2.5
18	4.9	7.6	9.3	7.4	8.3	5.1	28	190	58	46	3.1	3.1
19	6.4	9.7	8.4	7.8	8.0	4.6	28	210	47	44	6.2	10
20	4.4	8.4	8.0	7.6	7.8	3.4	27	230	45	43	5.7	11
21	1.8	7.5	8.3	7.3	7.5	4.1	26	220	43	38	5.6	20
22	2.6	7.4	8.7	7.4	7.2	3.8	25	240	36	35	5.8	18
23	3.8	10	8.8	7.8	6.9	4.0	24	290	34	31	12	17
24	1.7	9.4	8.3	8.9	7.8	4.2	27	330	32	30	7.1	14
25	1.3	8.2	7.7	9.3	8.8	4.2	26	440	31	30	8.9	13
26	1.9	7.6	6.8	9.5	10	3.9	39	460	31	31	7.4	13
27	1.5	8.8	7.0	8.8	13	4.2	38	455	30	24	5.2	12
28	2.1	8.6	7.4	8.4	10	4.4	38	450	30	16	5.7	10
29	2.4	9.0	7.5	8.2	---	4.6	38	430	135	15	4.6	11
30	2.7	9.1	7.2	7.9	---	4.6	38	360	116	19	2.9	22
31	3.4	---	7.3	7.7	---	4.9	---	280	---	20	4.8	---
TOTAL	62.44	206.7	274.6	232.6	230.9	205.3	681.1	6496	2471	1578	239.6	258.2
MEAN	2.01	6.89	8.86	7.50	8.25	6.62	22.7	210	82.4	50.9	7.73	8.61
MAX	6.4	10	11	9.5	13	12	39	480	250	116	17	22
MIN	.11	3.3	6.8	6.0	6.9	3.4	5.0	37	30	15	2.9	2.5
AC-FT	124	410	545	461	458	407	1350	12880	4900	3130	475	512

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1995, BY WATER YEAR (WY)

	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955
MEAN	7.84	14.6	12.9	12.1	17.7	18.8	50.9	108	41.9	17.4	19.6	5.26		
MAX	31.8	30.6	29.1	23.0	27.8	37.5	112	332	134	71.2	147	13.6		
(WY)	1943	1943	1943	1943	1944	1944	1992	1944	1947	1947	1945	1947		
MIN	1.32	3.34	5.00	4.78	6.50	6.62	15.7	5.06	2.70	1.81	.29	.000		
(WY)	1945	1945	1944	1991	1991	1995	1943	1946	1946	1993	1943	1943		

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1942 - 1995

ANNUAL TOTAL	7082.77	12936.44	
ANNUAL MEAN	19.4	35.4	27.4
HIGHEST ANNUAL MEAN			58.3
LOWEST ANNUAL MEAN			10.6
HIGHEST DAILY MEAN	^a 112	Apr 23	480
LOWEST DAILY MEAN	^b .00	Jul 30	.11
ANNUAL SEVEN-DAY MINIMUM	.13	Sep 28	.49
INSTANTANEOUS PEAK FLOW			808
INSTANTANEOUS PEAK STAGE			5.05
ANNUAL RUNOFF (AC-FT)	14050	25660	19860
10 PERCENT EXCEEDS	58	90	56
50 PERCENT EXCEEDS	10	8.8	12
90 PERCENT EXCEEDS	.30	3.4	1.3

a-Also occurred Apr 25.

b-Also occurred Jul 31, Sep 11, 15, and 30.

c-No flow at times during 1943, 1944, 1946, 1993, and 1994.

d-Site and datum then in use, from rating curve extended about 350 ft³/s on basis of slope-area determination of peak flow.

e-Highest flood of actual record probably occurred Jun 16, 1965. Discharge computed at Plum Creek near Louviers was 154,000 cfs.

f-Maximum gage height, 7.07 ft, Jan 15, 1993, backwater from ice.

06709530 PLUM CREEK AT TITAN ROAD NEAR LOUVIERS, CO

LOCATION.--Lat 39°30'27", long 105°01'26", on line between sec.20 and sec.29, T.6 S., R.68 W., Douglas County, Hydrologic Unit 10190002, on upstream side of bridge on Titan Road, 2.4 mi north of Louviers.

DRAINAGE AREA.--315 mi².

PERIOD OF RECORD.--May 1, 1984 to current year.

REVISED RECORDS.--WDR CO-86-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,520 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 4-16, 28-30, Dec. 9-10, Jan. 2-10, and July 27 to Sept. 30. Records poor. Diversions upstream from station for irrigation. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	7.1	2.0	6.2	8.5	14	73	268	167	12	.85
2	.00	.00	7.5	7.1	4.8	7.7	19	72	250	169	10	.80
3	.00	.00	8.7	6.4	5.8	7.1	18	46	144	146	9.7	.76
4	.00	.10	10	5.3	5.0	5.7	14	32	187	110	10	.70
5	.00	.10	9.9	7.0	5.6	5.1	14	31	124	127	7.0	.68
6	.00	.10	9.2	9.9	4.6	4.8	18	47	176	136	3.2	.76
7	.00	.11	8.9	9.2	3.0	5.3	19	74	162	119	3.3	1.1
8	.00	.12	5.5	8.4	3.5	8.3	23	64	135	99	3.3	1.7
9	.00	.16	6.8	7.6	4.0	7.6	20	86	102	123	3.5	3.5
10	.00	.20	8.8	6.6	5.1	6.4	20	86	108	93	1.8	6.9
11	.00	.18	11	6.0	11	5.6	22	84	98	93	.90	6.4
12	.00	.17	6.5	4.5	3.1	6.4	23	91	57	64	.32	4.1
13	.00	.32	9.2	4.3	6.9	5.9	34	89	52	66	.00	3.4
14	.00	.55	3.7	6.5	12	5.1	32	70	59	55	.00	2.6
15	.00	1.0	1.6	7.5	8.3	4.8	31	54	45	79	.00	2.4
16	.00	1.5	3.4	6.1	6.4	4.8	43	54	33	51	.00	2.1
17	.00	1.4	8.8	4.5	8.1	4.9	44	175	37	51	.00	1.7
18	.00	.63	7.8	4.7	6.2	4.4	45	107	66	40	.00	2.3
19	.00	4.5	6.7	9.5	5.5	4.6	42	165	80	39	.60	3.0
20	.00	5.9	5.0	7.6	6.2	3.5	39	219	77	33	.57	5.5
21	.00	3.9	5.3	6.5	5.0	4.1	44	195	75	26	.58	7.9
22	.00	5.6	4.9	10	4.0	4.6	34	231	64	27	.66	7.1
23	.00	3.8	4.3	11	3.2	4.5	30	239	63	21	1.2	5.6
24	.00	4.2	7.5	15	2.5	4.6	40	379	52	22	1.0	4.0
25	.00	5.3	4.9	18	2.8	4.0	28	536	39	18	1.2	3.9
26	.00	6.0	3.2	20	4.4	5.7	36	596	37	16	.96	3.3
27	.00	4.2	4.2	15	5.6	8.9	39	589	27	15	.88	2.8
28	.00	4.4	3.9	10	6.2	9.2	52	524	201	14	.94	2.7
29	.00	4.8	5.1	7.3	---	11	50	556	92	13	.80	3.3
30	.00	5.2	4.7	8.8	---	14	57	384	123	14	.71	3.7
31	.00	---	3.9	8.5	---	16	---	367	---	15	.94	---
TOTAL	0.00	64.44	198.0	260.8	155.0	203.1	944	6315	3033	2061	76.06	95.55
MEAN	.000	2.15	6.39	8.41	5.54	6.55	31.5	204	101	66.5	2.45	3.18
MAX	.00	6.0	11	20	12	16	57	596	268	169	12	7.9
MIN	.00	.00	1.6	2.0	2.5	3.5	14	31	27	13	.00	.68
AC-FT	.00	128	393	517	307	403	1870	12530	6020	4090	151	190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

	1984	1985	1985	1985	1988	1988	1987	1984	1985	1985	1984	1984
MEAN	13.5	17.9	14.8	13.8	17.6	29.2	67.1	173	52.4	18.2	13.0	6.26
MAX	71.8	75.9	44.3	29.7	42.7	62.1	126	779	135	66.5	63.4	31.1
(WY)	1985	1985	1985	1985	1988	1988	1987	1984	1984	1995	1984	1984
MIN	.000	2.15	6.30	4.86	5.14	6.55	23.2	10.4	5.89	.002	.000	.000
(WY)	1995	1995	1991	1991	1990	1995	1989	1989	1990	1993	1993	1990

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1984 - 1995

ANNUAL TOTAL	6315.03	13405.95	
ANNUAL MEAN	17.3	36.7	30.4
HIGHEST ANNUAL MEAN			68.3
LOWEST ANNUAL MEAN			8.86
HIGHEST DAILY MEAN	98	Apr 24	1770
LOWEST DAILY MEAN	a .00	Jul 2	b .00
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 5	.00
INSTANTANEOUS PEAK FLOW			c 2850
INSTANTANEOUS PEAK STAGE			10.63
ANNUAL RUNOFF (AC-FT)	12530	26590	22060
10 PERCENT EXCEEDS	56	98	73
50 PERCENT EXCEEDS	8.4	6.5	15
90 PERCENT EXCEEDS	.00	.00	.00

a-No flow many days.

b-No flow many days, most years.

c-From rating curve extended above 450 ft³/s.

06709600 CHATFIELD LAKE NEAR LITTLETON, CO

LOCATION.--Lat 39°33'26", long 105°03'27", in NW¹/4SE¹/4 sec.1, T.6 S., R.69 W., Jefferson County, Hydrologic Unit 10190002, near left end of dam on South Platte River at mouth of Plum Creek and 4.7 mi southwest of courthouse in Littleton.

DRAINAGE AREA.--3,018 mi².

PERIOD OF RECORD.--Contents, May 1975 to current year. Water-quality data available, October 1976 to September 1981.

GAGE.--Water-stage recorder. Datum of gage is 5,500.00 ft above sea level, (levels by U.S. Army, Corps of Engineers); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by earthfill dam. Storage began May 29, 1975. Capacity, 235,000 acre-ft at elevation 5,500 ft, crest of spillway. No dead storage. Figures given represent total contents. Reservoir is for flood control and recreation.

COOPERATION.--Records provided by U.S. Army, Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 54,690 acre-ft, May 26, 1980, elevation, 5,447.58 ft; minimum since first filling in June 1979; 17,300 acre-ft, Nov. 17, 1986, elevation 5,424.46 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 52,570 acre-ft, July 4, elevation, 5,446.40 ft; minimum, 19,700 acre-ft, Sept. 12, elevation, 5,426.35 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	5,427.95	21,640	-
Oct. 31.	5,428.27	22,040	+400
Nov. 30.	5,428.10	21,830	-210
Dec. 31.	5,429.58	23,730	+1,900
CAL YR 1994	-	-	+1,370
Jan. 31.	5,430.84	25,430	+1,700
Feb. 28.	5,431.90	26,910	+1,480
Mar. 31.	5,432.03	27,090	+180
Apr. 30.	5,432.04	27,100	+10
May 31.	5,431.86	26,860	-240
June 30.	5,444.14	47,900	+21,040
July 31.	5,432.09	27,180	-20,720
Aug. 31.	5,426.83	20,270	-6,910
Sept. 30.	5,427.22	20,740	+470
WTR YR 1995.	-	-	-900

06710245 SOUTH PLATTE RIVER AT UNION AVENUE, AT ENGLEWOOD, CO

LOCATION.--Lat 39°37'52", long 105°00'50", in NW¹/4SW¹/4 sec.9, T.5 S., R.68 W., Arapahoe County, Hydrologic Unit 10190002, on right bank 280 ft downstream from Big Dry Creek, 285 ft upstream from Union Avenue bridge in Englewood, and 7.5 mi downstream from Chatfield Dam.

DRAINAGE AREA.--3,043 mi².

PERIOD OF RECORD.--April 11, 1989 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,300 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair except those for discharges less than 50 ft³/s or greater than 300 ft³/s, which are poor. Flow regulated by Chatfield Reservoir (station 06709600) 7.1 mi upstream. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	20	21	32	39	20	48	168	1420	2100	604	539
2	36	55	19	44	39	20	48	180	1580	2300	540	393
3	34	106	20	42	39	30	52	173	1700	2320	438	274
4	33	97	21	45	38	32	50	162	1810	2410	372	224
5	32	39	21	48	39	32	72	166	1760	2590	348	202
6	30	37	19	33	43	50	93	213	1640	2720	348	201
7	24	36	25	39	41	53	40	161	1520	2790	347	200
8	26	48	24	34	36	55	27	212	1220	2780	384	193
9	21	60	27	35	35	54	58	177	1440	2750	488	172
10	20	45	35	36	37	40	76	180	1200	2700	526	180
11	21	67	30	35	37	40	155	151	1200	2620	384	224
12	20	70	34	34	51	41	178	133	1350	2490	252	241
13	20	75	24	33	55	40	93	134	1810	2370	287	72
14	24	114	23	32	81	41	66	135	1950	2260	375	75
15	18	132	24	34	65	44	49	127	1690	2190	434	67
16	18	96	24	34	35	45	49	119	1630	2200	408	69
17	51	37	22	34	34	48	54	868	1760	2260	387	78
18	25	40	22	35	28	45	50	671	1570	2320	335	77
19	20	87	23	37	26	46	86	1010	1650	2410	294	96
20	21	89	23	35	26	47	65	1300	1910	2470	255	67
21	20	82	21	33	25	46	94	1510	2020	2260	252	206
22	19	25	23	33	24	46	97	1520	2060	2010	319	92
23	18	21	22	35	26	45	87	1080	2100	2010	473	71
24	18	21	23	32	31	46	111	1110	2100	1610	552	66
25	17	21	24	29	31	45	121	1220	2110	1090	510	57
26	16	20	24	25	30	51	197	1200	2150	836	424	57
27	16	19	24	29	30	50	177	1400	2260	707	417	48
28	17	21	33	35	22	65	160	1150	2350	611	453	44
29	20	20	32	39	---	54	168	1170	1970	610	515	62
30	25	20	35	38	---	51	173	1420	1820	612	603	97
31	22	---	34	38	---	49	---	1460	---	611	639	---
TOTAL	738	1620	776	1097	1043	1371	2794	20680	52750	62017	12963	4444
MEAN	23.8	54.0	25.0	35.4	37.2	44.2	93.1	667	1758	2001	418	148
MAX	51	132	35	48	81	65	197	1520	2350	2790	639	539
MIN	16	19	19	25	22	20	27	119	1200	610	252	44
AC-FT	1460	3210	1540	2180	2070	2720	5540	41020	104600	123000	25710	8810

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	44.0	70.7	40.6	38.7	42.6	65.2	139	256	466	460	195	78.5
MAX	80.7	125	113	64.3	73.7	133	203	667	1758	2001	418	148
(WY)	1991	1991	1990	1992	1992	1992	1992	1995	1995	1995	1995	1995
MIN	23.8	27.0	15.6	15.9	11.5	32.3	84.3	114	168	81.5	75.1	29.2
(WY)	1992	1990	1992	1991	1991	1991	1990	1991	1991	1994	1994	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1989 - 1995
ANNUAL TOTAL	34008	162293	
ANNUAL MEAN	93.2	445	159
HIGHEST ANNUAL MEAN			445
LOWEST ANNUAL MEAN			98.4
HIGHEST DAILY MEAN	696	2790	2790
LOWEST DAILY MEAN	^a 16	^a 16	9.7
ANNUAL SEVEN-DAY MINIMUM	17	17	10
INSTANTANEOUS PEAK FLOW		2840	2840
INSTANTANEOUS PEAK STAGE		8.35	8.35
ANNUAL RUNOFF (AC-FT)	67450	321900	115400
10 PERCENT EXCEEDS	244	1810	267
50 PERCENT EXCEEDS	47	60	71
90 PERCENT EXCEEDS	20	22	22

a-Also occurred Oct 27.

06710385 BEAR CREEK ABOVE EVERGREEN, CO

LOCATION.--Lat 39°37'58", long 105°19'59", in SE¹/4NE¹/4 sec.9, T.5 S.. R.71 W., Jefferson County, Hydrologic Unit 10190002, on right bank 0.6 mi upstream from Evergreen Lake dam at Evergreen.

DRAINAGE AREA.--104 mi².

PERIOD OF RECORD.--August 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage 7,076 ft above sea level, from topographic map. Prior to May 1, 1986, at site 200 ft downstream at present datum.

REMARKS.--Estimated daily discharges: Nov. 18, Dec. 1 to Apr. 4, and July 18 to Aug. 24. Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by small diversions for irrigation. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	17	11	8.0	10	8.2	11	78	277	211	78	45
2	17	15	10	8.0	10	8.2	11	82	279	193	70	43
3	16	14	10	8.0	10	8.2	11	92	324	185	68	43
4	17	12	10	8.0	10	8.2	11	89	297	177	66	41
5	17	23	10	8.0	10	8.2	15	98	282	171	65	40
6	16	17	9.0	8.0	10	7.8	14	105	290	174	64	46
7	16	17	9.0	8.0	10	8.0	14	104	278	181	60	48
8	19	16	9.0	8.5	10	9.0	16	100	258	186	58	49
9	19	16	8.0	9.0	10	10	18	90	298	193	56	47
10	18	17	8.0	9.0	10	10	13	92	254	200	54	55
11	17	15	8.0	9.0	9.0	10	15	98	243	194	52	54
12	17	17	8.0	9.0	9.0	10	15	106	249	188	56	48
13	16	14	8.0	9.0	9.0	10	19	107	276	185	60	42
14	16	13	8.0	9.0	9.0	10	21	112	296	163	62	39
15	16	16	8.0	9.0	10	10	17	128	334	149	62	39
16	17	16	8.0	9.0	10	10	15	137	362	139	62	37
17	18	17	8.0	9.0	10	10	17	187	398	127	60	36
18	16	14	8.0	9.0	10	10	17	189	421	120	58	36
19	17	15	8.0	9.0	10	10	18	217	300	110	60	38
20	15	15	8.0	8.0	11	10	19	243	283	100	64	38
21	17	14	8.0	8.5	11	10	19	240	285	92	63	43
22	16	13	8.0	9.0	11	10	17	226	287	86	65	42
23	15	14	8.0	10	11	10	17	210	271	80	67	44
24	14	15	8.5	10	11	10	18	179	233	76	68	43
25	13	15	9.0	10	11	10	24	177	217	73	63	40
26	14	14	9.0	10	11	10	29	183	210	70	58	39
27	15	12	9.0	10	10	10	30	202	208	68	53	38
28	15	12	9.0	10	9.0	10	41	202	226	66	56	37
29	14	12	9.0	10	---	10	52	235	233	66	60	37
30	15	11	9.0	10	---	10	76	298	219	66	51	36
31	12	---	8.4	10	---	11	---	297	---	74	48	---
TOTAL	496	448	268.9	279.0	282.0	296.8	630	4903	8388	4163	1887	1263
MEAN	16.0	14.9	8.67	9.00	10.1	9.57	21.0	158	280	134	60.9	42.1
MAX	19	23	11	10	11	11	76	298	421	211	78	55
MIN	12	11	8.0	8.0	9.0	7.8	11	78	208	66	48	36
AC-FT	984	889	533	553	559	589	1250	9730	16640	8260	3740	2510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1995, BY WATER YEAR (WY)

	1985	1985	1985	1985	1992	1992	1987	1987	1995	1995	1991	1991
MEAN	29.7	24.3	16.4	13.4	12.4	15.7	36.9	92.0	104	61.8	46.2	32.8
MAX	85.1	56.2	32.8	18.3	17.5	26.7	89.7	230	280	134	87.3	50.1
(WY)	1985	1985	1985	1985	1992	1992	1987	1987	1995	1995	1991	1991
MIN	16.0	9.65	8.67	9.00	8.68	9.57	13.9	44.1	46.7	27.5	20.1	17.2
(WY)	1995	1993	1995	1995	1994	1995	1991	1993	1994	1994	1994	1994

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1985 - 1995

ANNUAL TOTAL	8718.3	23304.7	
ANNUAL MEAN	23.9	63.8	40.6
HIGHEST ANNUAL MEAN			63.8
LOWEST ANNUAL MEAN			22.5
HIGHEST DAILY MEAN	104	421	421
LOWEST DAILY MEAN	^a 8.0	7.8	7.8
ANNUAL SEVEN-DAY MINIMUM	8.0	8.0	8.0
INSTANTANEOUS PEAK FLOW		573	573
INSTANTANEOUS PEAK STAGE		5.39	5.39
ANNUAL RUNOFF (AC-FT)	17290	46220	29420
10 PERCENT EXCEEDS	50	210	86
50 PERCENT EXCEEDS	16	17	25
90 PERCENT EXCEEDS	8.6	9.0	11

a-Also occurred Dec 10-23.

PLATTE RIVER BASIN

06710500 BEAR CREEK AT MORRISON, CO

LOCATION.--Lat 39°39'11", long 105°11'43", in SE¹/4SW¹/4 sec.35, T.4 S., R.70 W., Jefferson County, Hydrologic Unit 10190002, on left bank at Morrison, 180 ft upstream from bridge on State Highway 8 and 0.2 mi upstream from Mount Vernon Creek.

DRAINAGE AREA.--164 mi².

PERIOD OF RECORD.--Streamflow records, September 1887 to September 1891, May 1895 to December 1901, February 1902 (gage heights only), October 1919 to current year. No winter records for water years 1888-90, 1896, 1898, 1900. Monthly discharge only for some periods, published in WSP 1310. Published as "near Morrison" 1900-1902, as "at Starbuck" 1919-28, and as "at Idledale" 1929-34. Water-quality data available, October 1976 to September 1981.

REVISED RECORDS.--WSP 976: 1942. WSP 1310: 1888, 1890-91, 1898, 1935(M). WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,780.43 ft above sea level. See WSP 1710 or 1730 for history of changes prior to Oct. 1, 1934. Oct. 1, 1934, to Oct. 10, 1961, water-stage recorder at site 80 ft downstream at present datum.

REMARKS.--Estimated daily discharges: Nov. 23 to Feb. 7, Feb. 11-21, and Mar. 1-9. Records good except for estimated daily discharges, which are poor. Small diversions for irrigation of about 1,000 acres upstream from station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

Table with 13 columns (DAY, OCT, NOV, DEC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP) and 34 rows of daily mean discharge data, plus summary rows for TOTAL, MEAN, MAX, MIN, and AC-FT.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1900 - 1995, BY WATER YEAR (WY)

Table with 13 columns (MEAN, MAX, MIN) and 13 rows (WY) showing monthly mean statistics for water years 1900 through 1995.

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1900 - 1995

Table with 5 columns (Statistic, 1994 Calendar Year, 1995 Water Year, 1900-1995 Range, 1900-1995 Date) showing summary statistics for annual totals, means, extremes, and runoff.

a-Also occurred Dec 15-31.
b-Also occurred Jan 4 to Feb 13.
c-Result of freezep.
d-Estimated.

06710605 BEAR CREEK ABOVE BEAR CREEK LAKE NEAR MORRISON, CO

LOCATION.--Lat 39°39'08", long 105°10'23", in NW¹/4NE¹/4 sec.1, T.5 S. R.70 W., Jefferson County, Hydrologic Unit 10190002, on left bank, 0.9 mi downstream from Strain Gulch, 1.0 mi east of Morrison, and 1.1 mi downstream from Mt. Vernon Creek.

DRAINAGE AREA.--176 mi².

PERIOD OF RECORD.--May 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage 5,645 ft above sea level, from topographic map. Prior to Apr. 21, 1989, at datum 3.37 ft, higher.

REMARKS.--Estimated daily discharges: Feb. 24. Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions to Harriman Canal, and Ward Canal, 0.7 mi upstream from gage. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	6.9	14	4.1	.29	.18	1.9	129	483	380	95	34
2	6.1	8.4	13	5.5	.29	.20	3.7	123	464	335	90	29
3	6.4	8.7	13	6.8	.29	.21	3.4	145	474	314	78	29
4	6.2	6.3	13	5.8	.29	.22	3.0	137	455	301	75	27
5	7.2	3.7	11	6.1	.29	.20	3.2	145	451	268	73	23
6	8.2	6.3	13	4.7	.28	.22	2.6	167	497	256	74	23
7	7.8	4.3	12	4.1	.26	.21	1.2	166	469	260	72	29
8	12	3.9	11	4.4	.25	.22	.23	178	430	264	70	35
9	13	3.4	4.8	3.3	.26	.20	.25	153	672	263	67	36
10	11	1.9	7.3	.44	.27	.22	1.5	144	657	280	59	49
11	9.4	1.8	11	.40	.26	.26	13	145	599	260	50	44
12	8.5	1.0	12	.40	.25	.27	12	151	571	244	56	33
13	7.3	.91	11	.40	.25	.28	4.7	157	580	230	54	19
14	4.3	.92	9.7	.40	.25	.85	3.3	154	580	244	52	15
15	4.0	.92	8.2	.40	.25	1.7	1.8	162	618	283	53	14
16	4.0	1.0	8.9	.39	.25	.88	1.4	202	630	228	46	12
17	4.9	1.3	9.1	.37	.24	4.1	1.2	482	651	225	45	12
18	5.3	.92	7.8	.37	.23	6.1	2.4	457	684	231	48	11
19	4.1	8.2	8.0	.34	.21	6.1	5.0	563	548	238	48	12
20	3.7	15	8.0	.31	.21	4.3	9.0	537	542	209	49	14
21	3.5	15	8.8	.31	.22	2.8	13	493	520	189	50	32
22	3.4	13	8.3	.31	.12	2.8	18	470	515	172	48	30
23	3.9	9.6	8.1	.30	.10	2.8	20	401	492	157	60	40
24	4.3	13	8.8	.30	.10	1.7	21	332	428	143	70	36
25	4.0	15	8.5	.30	.19	.52	27	315	393	132	63	30
26	2.8	15	8.9	.30	.19	.34	53	348	377	116	58	27
27	2.0	8.5	8.9	.29	.20	.25	46	374	359	97	50	26
28	2.5	5.6	7.8	.29	.19	.27	66	348	391	94	43	25
29	3.4	7.8	8.1	.29	---	.23	87	466	427	91	53	25
30	2.8	13	6.5	.29	---	.22	130	534	410	90	43	26
31	3.0	---	6.1	.29	---	.20	---	504	---	99	40	---
TOTAL	173.2	201.27	294.6	52.29	6.48	39.05	555.78	9082	15367	6693	1832	797
MEAN	5.59	6.71	9.50	1.69	.23	1.26	18.5	293	512	216	59.1	26.6
MAX	13	15	14	6.8	.29	6.1	130	563	684	380	95	49
MIN	2.0	.91	4.8	.29	.10	.18	.23	123	359	90	40	11
AC-FT	344	399	584	104	13	77	1100	18010	30480	13280	3630	1580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1995, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995			
MEAN	11.8	14.4	16.1	13.6	14.3	19.3	47.0	122	117	46.7	26.7	16.9
MAX	20.4	32.1	29.5	23.1	23.4	44.8	158	377	512	216	66.8	33.0
(WY)	1991	1987	1987	1987	1987	1987	1987	1987	1995	1995	1991	1991
MIN	4.34	5.38	9.50	1.69	.23	1.26	2.83	6.95	14.9	5.23	2.80	4.17
(WY)	1990	1990	1995	1995	1995	1995	1989	1989	1989	1989	1989	1989

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1987 - 1995

ANNUAL TOTAL	6338.17	35093.67	
ANNUAL MEAN	17.4	96.1	38.9
HIGHEST ANNUAL MEAN			96.1
LOWEST ANNUAL MEAN			10.4
HIGHEST DAILY MEAN	144	684	684
LOWEST DAILY MEAN	.91	.10	.10
ANNUAL SEVEN-DAY MINIMUM	1.0	.16	.16
INSTANTANEOUS PEAK FLOW		841	841
INSTANTANEOUS PEAK STAGE		6.45	6.45
ANNUAL RUNOFF (AC-FT)	12570	69610	28210
10 PERCENT EXCEEDS	50	396	73
50 PERCENT EXCEEDS	9.1	11	17
90 PERCENT EXCEEDS	3.1	.26	3.1

a-Also occurred Feb 24.

PLATTE RIVER BASIN

06711500 BEAR CREEK AT MOUTH, AT SHERIDAN, CO

LOCATION.--Lat 39°39'08", long 105°01'57", in NW¹/4NW¹/4 sec.5, T.5 S., R.68 W., Arapahoe County, Hydrologic Unit 10190002, on left bank just downstream from bridge on road to Fort Logan Mental Health Center, at Highway Department maintenance building at northwest city limits of Sheridan, 1.3 mi upstream from mouth, and 2.1 mi west of city hall in Englewood.

DRAINAGE AREA.--260 mi².

PERIOD OF RECORD.--April to November 1914, March 1927 to current year. Monthly discharge only prior to October 1933, published in WSP 1310. Published as "at Sheridan Junction" 1934-41.

REVISED RECORDS.--WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,295 ft above sea level, from topographic map. See WSP 1710 or 1730 for history of changes prior to Oct. 9, 1953. Oct. 9, 1953, to Aug. 6, 1969, water-stage recorder at present site at datum 1.0 ft, higher.

REMARKS.--Estimated daily discharges: Nov. 29, Dec. 9-10, Jan. 1-4, 7, and May 1-3. Records good except for estimated daily discharges, which are fair. Flow regulated by Bear Creek Lake since July 1979. Storage and diversions upstream from station for irrigation of about 12,000 acres.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	11	17	15	8.6	5.4	13	166	731	492	88	42
2	14	14	17	14	9.1	5.3	12	201	731	413	80	34
3	13	18	18	13	12	5.9	11	231	740	288	74	33
4	14	18	18	13	13	6.6	8.7	238	942	244	68	32
5	15	14	17	11	15	5.7	7.2	255	800	239	64	30
6	14	13	16	10	14	9.6	7.5	263	764	229	61	27
7	13	13	21	10	9.6	6.0	9.4	255	747	228	62	31
8	14	16	20	11	11	5.7	11	256	436	220	59	37
9	16	15	20	11	9.8	5.6	18	228	194	213	57	46
10	16	14	20	9.8	9.1	5.2	22	201	237	217	57	51
11	17	12	14	10	9.9	5.4	25	178	314	199	50	61
12	18	11	18	14	13	5.3	30	167	510	182	49	48
13	18	11	20	14	13	5.1	25	184	634	178	51	34
14	18	19	19	11	15	5.1	22	177	536	206	47	28
15	18	18	24	9.1	13	5.1	23	234	540	246	50	24
16	18	15	24	8.4	9.3	5.7	24	299	540	210	43	20
17	25	16	23	6.1	11	5.6	28	889	549	195	39	19
18	16	16	21	7.0	12	5.5	40	799	551	202	144	19
19	14	14	18	14	10	7.0	56	760	550	211	122	32
20	12	15	15	13	10	7.5	44	735	547	183	85	30
21	11	24	15	11	10	4.8	47	719	544	154	81	55
22	12	26	15	14	8.4	4.4	39	652	580	129	80	43
23	11	24	16	13	8.0	6.6	39	669	699	114	86	43
24	11	22	17	13	7.8	6.2	39	607	789	117	92	50
25	11	22	17	10	7.6	5.6	49	652	756	113	93	45
26	11	23	16	11	7.6	7.6	79	660	731	107	84	39
27	9.4	24	16	11	6.6	8.4	129	811	698	88	77	36
28	7.9	16	16	9.1	6.4	8.8	125	747	718	82	67	34
29	7.9	15	16	9.2	---	10	124	765	662	81	73	36
30	9.6	15	16	7.4	---	11	155	733	515	81	70	38
31	11	---	16	8.3	---	11	---	732	---	85	59	---
TOTAL	427.8	504	556	341.4	289.8	202.7	1261.8	14463	18285	5946	2212	1097
MEAN	13.8	16.8	17.9	11.0	10.3	6.54	42.1	467	609	192	71.4	36.6
MAX	25	26	24	15	15	11	155	889	942	492	144	61
MIN	7.9	11	14	6.1	6.4	4.4	7.2	166	194	81	39	19
AC-FT	849	1000	1100	677	575	402	2500	28690	36270	11790	4390	2180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1995, BY WATER YEAR (WY)

	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	
MEAN	21.8	22.4	21.3	19.5	18.9	22.0	51.5	151	103	36.8	36.4	24.0																		
MAX	151	99.8	61.3	46.3	43.5	94.4	394	859	630	238	255	256																		
(WY)	1985	1985	1985	1970	1942	1960	1942	1973	1949	1983	1984	1938																		
MIN	1.52	3.53	8.21	3.85	5.09	5.35	3.33	1.16	1.67	1.77	3.05	1.82																		
(WY)	1955	1955	1951	1945	1945	1935	1935	1963	1966	1963	1954	1956																		

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1927 - 1995	
ANNUAL TOTAL	9770.3		45586.5			
ANNUAL MEAN	26.8		125		44.5	
HIGHEST ANNUAL MEAN					157	
LOWEST ANNUAL MEAN					6.53	
HIGHEST DAILY MEAN	145		942		4020	
LOWEST DAILY MEAN	4.9		4.4		.00	
ANNUAL SEVEN-DAY MINIMUM	6.1		5.3		.33	
INSTANTANEOUS PEAK FLOW			3550		a 8150	
INSTANTANEOUS PEAK STAGE			7.50		10.50	
ANNUAL RUNOFF (AC-FT)	19380		90420		32230	
10 PERCENT EXCEEDS	73		542		92	
50 PERCENT EXCEEDS	16		21		16	
90 PERCENT EXCEEDS	7.9		7.9		5.9	

a-Present datum, from floodmarks, from rating curve extended above 3400 ft³/s.

06711545 LITTLE DRY CREEK AT GREENWOOD VILLAGE, CO

LOCATION.--Lat 39°37'02", long 104°57'08" in SE¹/₄ NW¹/₄ sec.13, T.5 S., R.68 W., Arapahoe County, Hydrologic Unit 10190002, on right bank, 0.3 mi west of University Boulevard, and 0.5 mi south of East Belleview Avenue.

DRAINAGE AREA.--14.4 mi².

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

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,427 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Water year 1995, Jan. 1-5, Feb. 11-14, and July 2-11. Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions upstream from station. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	1.9	2.2	3.3
2	---	---	---	---	---	---	---	---	---	2.0	2.1	2.6
3	---	---	---	---	---	---	---	---	---	3.9	8.5	2.6
4	---	---	---	---	---	---	---	---	---	1.9	4.7	2.7
5	---	---	---	---	---	---	---	---	---	1.7	2.4	2.1
6	---	---	---	---	---	---	---	---	---	1.7	2.2	2.1
7	---	---	---	---	---	---	---	---	---	1.5	1.8	1.9
8	---	---	---	---	---	---	---	---	---	1.6	1.7	1.8
9	---	---	---	---	---	---	---	---	---	1.6	1.7	1.6
10	---	---	---	---	---	---	---	---	---	1.5	1.8	1.8
11	---	---	---	---	---	---	---	---	---	1.5	3.5	1.8
12	---	---	---	---	---	---	---	---	---	1.6	2.1	1.8
13	---	---	---	---	---	---	---	---	---	1.7	2.1	1.7
14	---	---	---	---	---	---	---	---	---	2.1	9.5	2.2
15	---	---	---	---	---	---	---	---	---	5.5	3.3	2.4
16	---	---	---	---	---	---	---	---	---	3.6	4.6	2.0
17	---	---	---	---	---	---	---	---	---	2.5	6.1	2.1
18	---	---	---	---	---	---	---	---	---	2.0	7.0	2.1
19	---	---	---	---	---	---	---	---	---	3.5	7.8	2.1
20	---	---	---	---	---	---	---	---	---	4.3	5.3	2.2
21	---	---	---	---	---	---	---	---	---	2.5	4.2	6.1
22	---	---	---	---	---	---	---	---	---	78 41	2.5 2.2	8.6
23	---	---	---	---	---	---	---	---	---	1.8	1.9	3.1
24	---	---	---	---	---	---	---	---	---	9.8	1.8	2.3
25	---	---	---	---	---	---	---	---	---	5.7	1.5	2.1
26	---	---	---	---	---	---	---	---	---	4.8	2.0	2.2
27	---	---	---	---	---	---	---	---	---	3.6	1.8	2.0
28	---	---	---	---	---	---	---	---	---	2.4	1.7	1.9
29	---	---	---	---	---	---	---	---	---	2.2	2.5	1.7
30	---	---	---	---	---	---	---	---	---	2.0	2.4	2.6
31	---	---	---	---	---	---	---	---	---	1.8	4.5	---
TOTAL	---	---	---	---	---	---	---	---	---	70.3	129.2	75.5
MEAN	---	---	---	---	---	---	---	---	---	2.27	4.17	2.52
MAX	---	---	---	---	---	---	---	---	---	5.5	21	8.6
MIN	---	---	---	---	---	---	---	---	---	1.5	1.5	1.6
AC-FT	---	---	---	---	---	---	---	---	---	139	256	150

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

	1994	1994	1994
MEAN	---	---	---
MAX	---	---	---
(WY)	---	---	---
MIN	---	---	---
(WY)	---	---	---

06711545 LITTLE DRY CREEK AT GREENWOOD VILLAGE, CO--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	2.8	2.2	1.9	2.1	1.8	2.3	5.7	12	18	6.0	4.0
2	6.6	2.9	2.0	1.8	2.0	2.0	2.0	7.3	9.2	8.0	4.9	4.1
3	2.6	2.9	2.0	1.8	1.9	2.1	1.9	22	39	7.0	4.2	4.6
4	3.7	5.7	2.0	1.8	1.9	1.6	1.8	5.9	56	6.0	5.0	4.0
5	4.0	2.9	1.9	1.8	1.8	1.5	1.9	6.7	24	8.0	4.8	4.2
6	3.1	2.3	2.6	2.0	1.6	10	2.1	7.7	12	7.0	4.2	5.4
7	2.2	2.3	2.2	2.3	1.6	6.1	2.2	17	11	7.0	4.6	6.8
8	5.4	6.1	2.4	2.5	1.6	2.8	2.1	13	67	8.0	4.0	7.2
9	2.7	4.9	2.3	2.4	1.6	2.6	25	5.2	138	6.0	4.2	5.8
10	2.6	2.9	2.0	2.4	1.9	2.2	22	4.3	13	5.8	4.6	7.4
11	2.5	2.4	2.0	2.2	1.6	2.1	10	9.0	9.5	7.2	4.4	5.1
12	4.4	2.3	2.2	2.0	1.4	2.0	12	4.1	8.9	5.4	13	7.7
13	2.7	2.2	2.2	2.0	1.4	1.9	14	4.0	9.0	6.5	4.8	6.2
14	2.6	20	2.3	2.0	13	1.7	6.7	3.5	8.9	26	5.3	4.9
15	2.8	5.1	2.2	2.1	6.5	1.7	8.0	3.6	8.3	14	6.4	4.4
16	2.8	3.8	2.1	2.1	4.1	1.7	6.1	7.7	8.1	53	4.2	4.7
17	21	3.8	2.1	2.1	2.4	2.1	8.1	287	12	8.2	4.1	4.3
18	5.5	2.3	2.2	2.0	2.0	1.9	19	82	17	6.7	12	4.0
19	3.0	2.1	2.0	2.0	1.9	2.2	33	9.9	8.2	7.2	49	42
20	2.7	2.1	2.0	2.1	1.8	1.8	8.1	7.9	7.6	6.8	6.0	12
21	2.5	2.0	2.0	2.0	1.7	2.0	11	7.3	7.8	7.3	8.1	67
22	2.5	1.9	1.8	1.8	1.6	1.8	8.2	6.8	8.5	7.1	20	18
23	2.4	1.8	1.9	2.0	1.6	1.5	9.3	8.9	10	5.1	5.7	10
24	2.4	1.8	1.8	2.1	1.6	1.5	18	7.6	8.4	5.3	5.0	6.9
25	2.4	1.8	1.8	2.6	1.6	1.5	6.0	7.0	8.3	4.5	7.1	5.1
26	2.4	1.8	1.8	2.6	1.6	4.2	44	46	8.1	5.9	5.0	4.0
27	2.3	1.7	1.8	3.1	1.7	2.6	13	209	7.8	4.6	4.8	3.6
28	2.4	1.5	1.9	2.0	1.8	9.7	6.8	41	62	4.2	4.6	3.4
29	2.2	1.7	2.0	4.1	---	6.1	24	46	106	4.9	4.8	14
30	4.6	2.2	1.8	2.9	---	4.0	16	18	39	4.8	5.6	42
31	3.6	---	1.8	2.2	---	3.2	---	19	---	6.4	4.3	---
TOTAL	116.8	100.0	63.3	68.7	67.3	89.9	344.6	930.1	744.6	281.9	230.7	322.8
MEAN	3.77	3.33	2.04	2.22	2.40	2.90	11.5	30.0	24.8	9.09	7.44	10.8
MAX	21	20	2.6	4.1	13	10	44	287	138	53	49	67
MIN	2.2	1.5	1.8	1.8	1.4	1.5	1.8	3.5	7.6	4.2	4.0	3.4
AC-FT	232	198	126	136	133	178	684	1840	1480	559	458	640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1994	1995	1994	1995	1994	1995	1994	1995	1994	1995
MEAN	3.77	3.33	2.04	2.22	2.40	2.90	11.5	30.0	24.8	5.68	5.80	6.64
MAX	3.77	3.33	2.04	2.22	2.40	2.90	11.5	30.0	24.8	9.09	7.44	10.8
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	3.77	3.33	2.04	2.22	2.40	2.90	11.5	30.0	24.8	2.27	4.17	2.52
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	3360.7	
ANNUAL MEAN	9.21	9.21
HIGHEST ANNUAL MEAN		9.21 1995
LOWEST ANNUAL MEAN		9.21 1995
HIGHEST DAILY MEAN	287	May 17 1995
LOWEST DAILY MEAN	^a 1.4	Feb 12 1995
ANNUAL SEVEN-DAY MINIMUM	1.6	Feb 7 1994
INSTANTANEOUS PEAK FLOW	495	May 17 1995
INSTANTANEOUS PEAK STAGE	8.87	May 17 1995
ANNUAL RUNOFF (AC-FT)	6670	6670
10 PERCENT EXCEEDS	17	13
50 PERCENT EXCEEDS	4.1	3.1
90 PERCENT EXCEEDS	1.8	1.8

a-Also occurred Feb 13.

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO

LOCATION.--Lat 39°39'54", long 105°00'13", in NW¹/₄NE¹/₄ sec.33, T.4 S., R.68 W., Arapahoe County, Hydrologic Unit 10190002, on right bank, 0.3 mi downstream from Dartmouth Ave bridge at Englewood, and 1.4 mi downstream from Bear Creek.

DRAINAGE AREA.--3,387 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1983 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,250 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 9, 10, Jan. 1-5, 7, 18, 19, 22, 23, and Feb. 11-17. Records good. Natural flow of stream affected by transmountain diversions, storage and flood control reservoirs, power developments, diversions for irrigation and municipal use, and return flow from irrigated areas. Flow regulated by Chatfield Dam since May 29, 1975 (station 06709600), and Bear Creek Dam since July 1979.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	31	45	62	56	30	67	319	1990	2790	605	561
2	54	62	45	60	55	31	66	336	2130	3070	545	431
3	49	121	47	58	58	42	64	366	2410	2890	458	316
4	48	133	45	56	57	45	57	343	3410	3070	410	258
5	49	67	51	54	59	46	79	338	2590	3420	375	227
6	48	61	46	53	62	79	104	414	2160	3650	371	221
7	45	60	54	55	57	74	54	357	2070	3810	370	232
8	54	70	53	57	53	72	41	519	1510	3740	389	234
9	51	88	54	60	49	71	93	399	1630	3660	468	215
10	45	64	53	57	49	55	123	388	1300	3540	503	224
11	41	80	52	55	49	54	195	351	1380	3300	394	269
12	44	84	59	59	49	56	230	329	1610	2940	279	301
13	41	86	53	58	48	55	128	333	2310	2640	297	91
14	48	160	48	53	48	55	95	345	2670	2450	375	73
15	42	182	47	51	48	56	81	344	2230	2360	432	62
16	42	126	44	52	48	59	82	364	2000	2370	413	61
17	105	66	45	47	47	64	93	2490	2220	2380	398	56
18	61	55	46	47	46	61	117	1350	1910	2470	441	55
19	48	98	44	48	42	62	189	1700	1980	2660	463	118
20	44	102	39	49	41	64	120	2010	2520	2770	355	82
21	45	110	40	47	38	56	170	2290	2860	2370	348	255
22	37	60	42	46	38	57	163	2370	2980	1900	396	128
23	41	46	44	43	36	61	145	1750	3260	1880	530	104
24	40	46	44	42	39	58	176	1750	3440	1480	615	111
25	38	44	47	43	41	58	176	1890	3320	990	587	103
26	36	44	45	43	41	74	359	1940	3410	783	509	90
27	33	42	47	42	44	68	273	2680	3620	668	489	83
28	31	42	56	53	36	93	251	1780	4010	589	509	79
29	33	42	56	59	---	77	303	1800	3170	591	562	101
30	43	37	60	53	---	74	326	2020	2280	598	626	173
31	44	---	64	54	---	70	---	2080	---	606	640	---
TOTAL	1425	2309	1515	1616	1334	1877	4420	35745	74380	72435	14152	5314
MEAN	46.0	77.0	48.9	52.1	47.6	60.5	147	1153	2479	2337	457	177
MAX	105	182	64	62	62	93	359	2680	4010	3810	640	561
MIN	31	31	39	42	36	30	41	319	1300	589	279	55
AC-FT	2830	4580	3010	3210	2650	3720	8770	70900	147500	143700	28070	10540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1995, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	166	175	94.8	83.4	88.2	142	404	951	815	614	436	167	
MAX	1050	733	268	216	166	261	1074	2576	2479	2337	1574	724	
(WY)	1985	1985	1985	1985	1985	1983	1984	1987	1995	1995	1984	1984	
MIN	44.8	39.3	48.9	45.4	35.5	51.7	123	209	243	79.0	98.8	43.7	
(WY)	1993	1990	1995	1991	1991	1991	1991	1989	1994	1994	1994	1992	

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1983 - 1995

ANNUAL TOTAL	45148	216522	
ANNUAL MEAN	124	593	313
HIGHEST ANNUAL MEAN			692
LOWEST ANNUAL MEAN			124
HIGHEST DAILY MEAN	794	May 11	4010
LOWEST DAILY MEAN	^a 20	Sep 13	30
ANNUAL SEVEN-DAY MINIMUM	24	Sep 13	36
INSTANTANEOUS PEAK FLOW			^c 9710
INSTANTANEOUS PEAK STAGE			7.21
INSTANTANEOUS LOW FLOW			20
ANNUAL RUNOFF (AC-FT)	89550	429500	226400
10 PERCENT EXCEEDS	315	2370	883
50 PERCENT EXCEEDS	67	81	142
90 PERCENT EXCEEDS	37	43	48

a-Also occurred Sep 18.

b-Also occurred Sep 18, 1994.

c-From rating curve extended above 3800 ft³/s.

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1985 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1985 to current year.

pH: March 1985 to current year.

WATER TEMPERATURE: March 1985 to current year.

DISSOLVED OXYGEN: March 1985 to current year.

INSTRUMENTATION.--Water-quality monitor since March 1985. Values recorded hourly.

REMARKS.--Water temperature and specific conductance records are good. Dissolved oxygen and pH are poor. Daily maximum and minimum specific conductance data available in District office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum mean, 995 microsiemens, Jan. 31, 1990; minimum mean, 223 microsiemens, May 16, 1987.

pH: Maximum, 9.9 units, July 14, 15, 18, 1987, June 8 and 11, 1993; minimum, 6.4 units, Oct. 18, 1989.

WATER TEMPERATURE: Maximum, 29.0°C, Aug. 17, 1986, July 30, 1987; minimum, 0.0°C, freezing point on many days during winter months.

DISSOLVED OXYGEN: Maximum, 17.4 mg/L, Mar. 14, 1985; minimum, 3.4 mg/L, July 31, 1987.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum mean, 952 microsiemens, Nov. 1; minimum mean, 197 microsiemens June 26.

pH: Maximum, 9.6 units, Sept. 6; minimum, 7.4 units, Mar. 14.

WATER TEMPERATURE: Maximum, 24.5°C, Aug. 22 ; minimum, 0.0°C, on many days during winter months.

DISSOLVED OXYGEN: Maximum, 19 mg/L, Feb. 7 and 9; minimum, 5.4 mg/L, Oct. 1.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	835	952	792	754	676	919	667	522	304	221	356	382
2	767	820	778	753	665	883	649	507	298	223	359	395
3	733	598	759	741	640	792	658	495	304	228	362	417
4	751	649	749	704	627	746	661	496	276	230	375	441
5	773	718	743	695	634	716	597	484	303	225	381	462
6	743	749	770	720	620	819	546	457	292	225	379	455
7	751	743	781	733	629	705	692	455	283	230	380	462
8	770	724	765	724	658	654	770	436	309	237	371	457
9	714	675	791	698	677	641	718	452	317	239	366	469
10	720	687	805	691	677	678	721	443	322	245	364	489
11	---	625	788	692	698	679	589	430	304	250	371	473
12	---	617	737	660	626	680	555	434	288	256	416	444
13	779	588	749	671	681	667	606	425	264	199	409	588
14	779	644	763	680	---	668	624	423	260	235	387	631
15	818	479	769	700	---	657	634	408	257	269	392	659
16	856	532	795	707	---	646	672	395	252	277	378	673
17	703	731	786	705	831	662	668	311	250	279	382	689
18	729	739	790	697	801	641	633	411	254	283	371	701
19	809	576	773	728	814	650	555	406	236	283	414	602
20	857	580	794	696	801	629	680	390	216	287	408	661
21	882	570	800	714	803	639	603	380	213	293	400	479
22	859	690	799	701	801	644	620	366	205	299	408	584
23	874	769	797	711	810	643	617	354	204	299	380	649
24	883	801	777	740	769	---	581	340	199	312	370	625
25	896	786	758	737	751	---	576	327	198	325	379	664
26	851	786	757	731	747	---	495	322	197	337	380	691
27	917	791	764	759	737	---	551	313	199	343	386	706
28	964	844	727	684	865	---	550	341	206	351	384	715
29	972	889	706	---	---	---	538	337	227	352	380	693
30	---	856	694	798	---	---	525	326	229	355	374	540
31	---	---	696	694	---	---	---	317	---	354	372	---
TOTAL	---	21208	23752	---	---	---	18551	12503	7666	8541	11834	16896
MEAN	---	707	766	---	---	---	618	403	256	276	382	563
MAX	---	952	805	---	---	---	770	522	322	355	416	715
MIN	---	479	694	---	---	---	495	311	197	199	356	382

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	8.9	8.1	8.6	7.9	---	---	9.2	8.2	8.5	8.3
2	---	---	8.9	8.2	8.5	7.9	---	---	9.3	8.4	8.6	8.3
3	---	---	8.6	8.3	8.6	7.9	8.3	8.0	9.4	8.5	8.7	8.3
4	8.5	7.9	9.0	8.3	8.6	7.9	8.2	7.9	9.4	8.4	8.8	8.2
5	8.5	7.8	8.8	8.3	8.6	8.0	8.2	7.9	9.4	8.4	8.7	8.1
6	8.5	7.8	8.8	8.3	8.3	7.9	8.3	8.0	9.2	8.4	8.8	8.2
7	8.5	7.8	8.7	8.2	8.5	7.9	8.4	8.0	9.3	8.1	8.8	7.9
8	8.4	7.8	8.2	7.9	8.3	7.9	8.2	8.0	9.2	8.1	8.8	7.8
9	8.4	7.7	8.7	7.9	8.4	7.9	---	---	9.2	8.1	8.9	7.7
10	---	---	8.6	7.8	8.4	7.9	---	---	9.1	8.1	8.6	7.6
11	---	---	8.8	7.9	8.3	7.9	---	---	8.8	8.1	8.6	7.6
12	8.5	7.8	8.8	7.8	8.4	7.9	---	---	8.7	8.0	9.2	7.6
13	8.6	7.8	8.8	7.9	8.5	8.0	---	---	8.5	7.9	8.8	7.6
14	---	---	8.7	7.9	8.5	8.0	---	---	8.3	8.0	9.2	7.4
15	---	---	8.9	7.9	---	---	---	---	8.3	8.1	9.1	7.8
16	---	---	9.1	7.9	---	---	---	---	8.2	8.0	9.3	8.0
17	---	---	8.7	7.9	---	---	---	---	---	---	9.2	8.1
18	---	---	8.7	7.9	---	---	---	---	---	---	9.0	8.0
19	---	---	9.0	8.0	---	---	---	---	8.5	8.2	9.2	7.8
20	8.5	7.9	8.9	7.9	8.6	8.0	8.7	8.1	8.7	8.1	9.1	8.3
21	8.6	7.9	9.1	8.0	8.5	8.0	8.6	8.1	8.5	7.8	9.0	8.0
22	8.6	7.9	8.8	7.9	8.6	8.0	8.6	8.0	8.8	7.7	9.2	7.6
23	8.7	7.9	8.6	7.9	8.4	8.0	8.6	8.0	8.8	8.2	9.1	8.2
24	8.7	7.9	8.8	7.9	8.7	8.0	8.6	8.0	8.9	8.2	---	---
25	8.6	7.9	8.7	7.9	8.7	8.0	8.7	8.1	8.9	8.3	---	---
26	8.7	7.9	8.7	7.9	8.8	8.0	8.8	8.1	9.0	8.2	---	---
27	8.7	7.8	8.7	7.9	8.8	8.0	8.9	8.2	8.9	8.3	---	---
28	8.8	7.8	8.4	7.9	---	---	8.8	8.2	8.7	8.2	---	---
29	8.7	8.0	8.5	7.9	---	---	8.8	8.3	---	---	---	---
30	8.6	8.0	8.6	7.9	---	---	8.9	8.3	---	---	---	---
31	8.7	8.1	---	---	---	---	9.1	8.3	---	---	---	---
MONTH	---	---	9.1	7.8	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.5	8.4	8.5	8.2	---	---	---	---	9.3	7.9	9.1	7.9
2	9.5	8.3	8.4	8.2	---	---	---	---	9.4	8.0	8.7	7.5
3	9.4	8.3	8.4	8.2	---	---	---	---	9.1	8.0	8.8	7.4
4	9.1	8.3	8.5	8.3	---	---	---	---	8.7	7.9	9.0	7.5
5	9.3	8.3	8.5	8.3	---	---	---	---	8.9	8.1	9.0	7.5
6	9.1	8.1	8.5	8.1	---	---	---	---	8.9	8.1	9.2	7.6
7	9.1	7.8	8.3	7.9	---	---	---	---	8.7	8.1	8.1	7.5
8	9.0	8.1	8.6	7.9	---	---	---	---	8.6	8.1	9.1	7.5
9	8.4	8.1	8.6	8.3	---	---	---	---	8.5	8.2	9.3	7.5
10	8.6	8.1	8.6	8.1	---	---	---	---	8.6	8.2	9.1	7.4
11	8.8	8.3	8.6	8.0	---	---	---	---	8.4	7.9	8.9	7.4
12	9.0	8.3	8.5	8.1	---	---	---	---	8.6	7.9	9.3	7.7
13	9.0	8.3	8.6	8.0	---	---	---	---	8.8	7.9	8.9	7.8
14	9.0	8.2	8.6	8.0	---	---	---	---	8.6	7.9	8.9	---
15	8.9	8.2	8.6	7.9	---	---	---	---	8.8	7.8	9.0	7.9
16	8.8	8.2	8.4	7.8	---	---	---	---	8.8	7.8	9.1	8.1
17	8.7	8.2	8.1	7.9	---	---	---	---	8.8	7.9	8.9	7.9
18	8.5	8.1	8.1	8.0	---	---	8.3	7.3	9.0	7.9	8.6	7.9
19	8.3	8.2	8.0	8.0	---	---	8.4	8.0	8.7	7.9	---	---
20	8.7	8.2	8.1	8.0	---	---	8.4	8.0	8.8	7.9	---	---
21	8.4	8.2	8.1	8.0	---	---	8.5	8.1	8.9	7.9	---	---
22	8.7	8.2	8.1	8.0	---	---	8.6	8.0	9.0	7.9	---	---
23	8.7	8.2	8.2	8.1	---	---	8.5	8.0	9.0	8.1	---	---
24	8.9	8.1	8.1	8.0	---	---	8.5	8.1	8.9	8.0	---	---
25	8.9	8.2	8.2	8.1	---	---	8.7	8.0	8.9	8.1	---	---
26	8.5	8.2	8.2	8.0	---	---	8.9	8.0	9.0	8.1	8.6	7.5
27	8.8	8.3	8.2	8.1	---	---	9.0	8.0	9.1	8.1	8.8	7.7
28	8.8	8.3	8.1	7.9	---	---	9.2	7.9	9.0	8.1	8.7	7.8
29	8.4	8.2	8.1	7.7	---	---	9.3	8.0	9.0	8.0	---	7.8
30	8.4	8.2	8.1	8.0	---	---	9.2	8.0	8.9	8.0	8.4	7.8
31	---	---	8.0	7.9	---	---	8.6	8.0	9.5	8.0	---	---
MONTH	9.5	7.8	8.6	7.7	---	---	---	---	9.5	7.8	---	---

06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO--Continued

TEMPERATURE, WATER (DEG. C) WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.8	14.0	12.4	7.6	7.5	2.0	1.7	.0	7.9	3.6	3.3	.8
2	18.3	12.8	10.3	7.8	7.1	2.2	.9	.0	7.6	3.5	6.7	.4
3	16.2	13.2	8.7	6.1	6.4	2.1	1.9	.0	6.5	2.4	9.3	1.8
4	17.0	12.8	10.0	5.7	7.4	2.4	.3	.0	7.9	2.6	10.2	4.0
5	16.9	13.4	10.2	5.9	4.8	2.0	1.2	.0	7.1	2.8	9.0	3.4
6	17.0	12.1	9.1	6.1	4.1	2.0	2.1	.0	7.3	3.0	7.0	2.2
7	14.5	10.8	---	7.1	5.1	1.3	2.9	.0	7.8	3.5	7.7	.0
8	15.9	10.5	10.3	5.8	3.3	.7	4.9	1.1	5.6	2.5	8.6	2.0
9	16.5	9.7	9.4	5.3	2.5	.0	4.9	1.1	8.8	3.1	11.5	3.3
10	16.8	10.2	10.5	7.0	2.4	.0	6.3	2.0	5.9	1.8	12.9	5.0
11	17.2	10.3	10.2	6.4	2.6	.3	6.0	2.1	1.9	.0	12.2	6.7
12	16.5	10.9	10.8	7.6	3.6	.0	4.8	1.6	.4	.0	11.1	7.0
13	15.8	10.2	8.5	4.8	4.6	.8	5.1	1.1	1.9	.0	12.2	5.0
14	14.5	9.9	5.8	2.8	4.2	.5	6.1	1.2	2.9	.0	13.2	6.0
15	12.6	9.4	8.2	3.9	3.3	.0	6.8	2.5	4.1	.0	14.3	6.4
16	15.6	9.9	7.9	4.1	4.0	.0	4.8	2.7	5.6	.0	14.0	7.9
17	11.5	8.7	6.9	4.0	4.5	1.2	3.8	.3	8.2	1.5	13.1	8.4
18	12.5	7.1	5.9	2.2	5.7	1.1	2.7	.0	9.6	3.2	13.4	7.5
19	14.9	9.1	6.1	2.2	4.6	1.4	3.7	.0	10.3	3.3	12.7	7.5
20	14.5	8.6	7.6	4.0	5.2	.4	4.8	.3	12.2	4.5	12.3	5.4
21	14.1	8.4	5.9	2.4	5.7	.9	3.6	.0	12.3	4.9	14.2	6.8
22	14.4	8.7	6.8	2.4	5.3	1.5	3.2	.0	12.4	5.2	14.1	8.0
23	14.5	7.0	6.8	1.8	3.7	1.4	3.1	.0	12.4	4.9	13.3	5.9
24	11.6	7.4	6.8	2.0	6.1	2.0	4.0	.0	12.6	5.0	---	---
25	13.1	6.6	6.8	2.2	7.0	2.0	5.3	.7	12.7	5.3	---	---
26	13.9	7.2	6.2	2.4	6.9	2.4	6.0	2.6	12.1	6.3	---	---
27	14.1	8.5	4.4	.9	5.8	1.9	6.3	3.8	10.6	5.5	---	---
28	15.3	9.2	2.4	.0	4.9	1.4	5.0	2.7	6.6	1.8	---	---
29	14.2	8.9	2.7	.0	3.5	1.5	5.1	1.6	---	---	---	---
30	10.3	6.8	7.1	1.5	3.2	1.1	5.1	.0	---	---	---	---
31	10.6	5.1	---	---	1.6	.0	6.2	2.2	---	---	---	---
MONTH	18.8	5.1	---	.0	7.5	.0	6.8	.0	12.7	.0	---	---
DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	5.0	13.2	7.2	14.1	10.5	16.2	14.2	22.0	16.4	24.7	18.6
2	12.6	6.6	13.0	7.7	14.0	11.4	15.6	14.4	22.4	17.2	22.6	18.3
3	15.2	6.9	10.0	8.5	13.5	11.7	15.5	14.2	20.5	16.9	23.2	18.0
4	16.9	7.5	14.0	7.3	13.4	11.2	15.5	14.1	21.5	17.2	22.8	17.6
5	13.2	8.3	12.8	9.0	14.4	11.8	16.4	14.2	22.2	16.9	22.8	17.1
6	14.0	7.8	14.9	8.4	15.6	12.2	16.7	14.6	23.8	16.8	21.9	17.1
7	16.7	8.2	11.8	9.3	14.6	12.0	16.8	14.7	22.6	17.4	18.9	16.7
8	19.5	10.2	11.3	7.0	13.2	12.2	16.8	15.0	22.2	17.5	19.5	15.9
9	11.6	4.6	12.3	8.4	14.8	11.4	17.7	15.3	20.0	17.5	20.2	16.3
10	4.6	1.4	15.1	9.0	14.1	12.0	17.3	15.3	23.1	17.7	21.1	16.2
11	12.0	2.8	15.6	9.7	15.9	12.1	17.9	15.7	22.6	18.3	18.7	15.8
12	14.4	5.3	13.8	10.2	15.6	12.5	18.5	16.1	23.1	17.2	21.0	15.6
13	13.8	7.1	15.9	9.2	16.4	12.0	18.7	16.5	23.9	17.8	20.7	15.0
14	14.1	7.7	15.8	9.5	16.3	13.4	18.3	16.7	21.4	18.1	20.4	16.2
15	12.0	7.2	17.0	10.6	16.1	14.0	19.0	16.7	23.6	17.7	21.4	15.2
16	13.1	7.4	13.5	11.7	17.1	14.2	19.1	17.0	23.6	18.1	20.9	15.8
17	10.5	7.1	12.2	9.1	16.7	14.5	19.0	17.2	22.8	18.7	21.1	15.4
18	12.8	5.5	13.7	8.6	17.5	14.4	19.3	17.4	23.9	18.4	19.4	16.3
19	9.4	4.5	13.5	10.2	17.3	13.9	19.2	17.0	23.0	18.8	16.6	14.4
20	11.8	6.5	13.6	10.8	16.8	14.1	19.5	17.0	23.8	18.6	14.8	7.3
21	8.7	6.6	14.3	10.9	16.7	14.2	19.7	17.7	24.2	18.9	9.0	6.1
22	9.6	6.0	12.0	10.8	16.6	13.9	20.0	17.4	24.5	19.1	14.2	7.0
23	11.5	5.4	10.8	10.1	16.6	14.6	19.7	17.4	24.2	19.6	15.3	10.8
24	15.7	5.3	11.1	10.0	16.3	14.3	20.1	17.3	23.9	19.6	13.6	10.9
25	14.7	7.5	11.4	10.1	16.6	14.4	20.9	17.0	23.5	19.8	15.4	9.2
26	9.5	4.7	12.7	9.9	17.0	14.4	21.9	17.1	23.9	19.2	16.5	10.8
27	15.1	6.0	11.1	10.2	17.0	14.9	22.2	16.9	24.3	18.9	17.8	12.0
28	13.2	8.1	12.6	10.1	16.4	15.1	22.6	17.0	23.7	18.9	16.1	12.0
29	10.0	8.5	11.7	10.3	15.6	14.4	22.3	17.1	23.9	19.1	15.5	11.8
30	12.1	7.8	11.7	10.5	15.4	14.3	21.2	17.8	22.9	19.1	14.3	11.5
31	---	---	12.5	10.4	---	---	18.0	16.9	23.3	18.9	---	---
MONTH	19.5	1.4	17.0	7.0	17.5	10.5	22.6	14.1	24.5	16.4	24.7	6.1

06712000 CHERRY CREEK NEAR FRANKTOWN, CO

LOCATION.--Lat 39°21'21", long 104°45'46", in NE1/4 sec.15, T.8 S., R.66 W., Douglas County, Hydrologic Unit 10190003, on right bank 1.5 mi upstream from Russellville Gulch, and 2.5 mi south of Franktown.

DRAINAGE AREA.--169 mi².

PERIOD OF RECORD.--November 1939 to current year.

REVISED RECORDS.--WSP 1730: Drainage area. WDR CO-87-1: 1983-85 (P).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,170 ft above sea level, from topographic map. See WSP 1730 for history of changes prior to Oct. 1, 1953.

REMARKS.--Estimated daily discharges: Nov. 15 to Feb. 17 and Apr. 10 to July 18. Records poor. Many small diversions upstream from station for irrigation of about 800 acres. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 3, 1933, caused by Castlewood Dam failure, exceeded all other observed floods at this location.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.8	2.0	2.7	4.9	10	6.2	10	6.0	90	2.3	1.7
2	1.7	2.9	1.9	2.7	6.0	11	6.5	9.8	6.6	60	2.2	1.8
3	1.7	3.0	1.9	2.6	5.7	6.4	6.8	9.2	6.2	35	2.2	1.9
4	1.9	3.0	1.8	2.5	5.8	5.0	6.6	8.4	13	20	2.5	1.9
5	2.5	3.0	1.8	2.5	6.2	5.3	6.4	7.4	10	15	2.4	1.9
6	2.2	3.0	1.7	2.6	6.3	5.8	6.1	8.0	9.2	8.0	2.2	1.9
7	2.1	3.1	1.8	2.6	6.5	19	5.7	8.8	8.0	9.0	2.2	2.0
8	2.4	3.0	1.7	2.7	7.8	4.6	4.9	9.2	7.0	10	2.7	2.1
9	2.4	3.1	1.6	2.7	6.9	4.8	5.2	8.4	5.8	12	3.1	3.7
10	2.3	3.1	1.7	2.8	7.1	5.9	10	7.0	9.0	10	2.5	2.4
11	2.3	3.1	1.7	2.8	7.1	6.4	11	6.0	8.0	9.0	2.2	2.5
12	2.3	3.1	1.8	2.9	6.5	6.2	10	5.6	7.4	8.6	2.1	2.1
13	2.2	3.1	1.9	3.0	5.7	5.8	12	5.2	7.2	8.0	2.1	1.9
14	2.2	3.2	1.9	3.0	6.0	5.3	13	4.8	7.0	15	2.1	1.8
15	2.3	3.4	1.9	3.0	8.5	4.8	12	4.4	6.6	35	14	1.8
16	2.3	3.5	2.0	3.1	7.4	4.6	11	4.0	6.8	20	2.9	1.8
17	2.8	3.0	2.1	3.1	7.8	4.6	12	100	7.0	15	2.2	1.8
18	3.0	2.7	2.1	3.1	8.3	4.6	13	60	7.6	11	2.0	1.8
19	2.8	2.5	2.4	3.2	9.5	4.7	15	50	7.0	7.5	2.0	4.7
20	2.7	2.4	2.8	3.2	11	4.7	17	40	6.0	6.8	1.8	3.1
21	2.6	2.4	2.8	3.2	14	4.7	14	25	5.4	5.6	1.8	4.8
22	2.5	2.5	2.5	3.2	15	4.5	15	19	5.2	5.3	1.8	3.7
23	2.5	2.4	2.8	3.3	16	4.2	16	17	6.0	5.2	1.7	3.7
24	2.5	2.5	2.9	3.4	16	4.0	17	15	5.6	4.8	1.7	3.7
25	2.5	2.6	2.8	3.5	15	4.5	18	12	5.0	4.5	1.8	3.7
26	2.6	2.5	2.8	3.6	19	4.3	16	10	4.5	4.0	1.8	3.7
27	2.6	2.4	2.9	3.7	7.8	4.5	15	8.4	4.0	2.8	1.8	3.6
28	2.6	2.2	2.9	3.8	6.4	5.0	13	9.4	3.5	2.4	1.8	3.5
29	2.6	2.2	2.9	3.9	---	5.6	12	13	200	2.3	1.7	3.7
30	2.8	2.2	2.8	3.9	---	5.8	11	11	110	2.2	1.8	5.1
31	2.8	---	2.8	4.1	---	6.0	---	9.0	---	2.2	1.8	---
TOTAL	74.4	83.9	69.4	96.4	250.2	182.6	337.4	515.0	500.6	446.2	77.2	83.8
MEAN	2.40	2.80	2.24	3.11	8.94	5.89	11.2	16.6	16.7	14.4	2.49	2.79
MAX	3.0	3.5	2.9	4.1	19	19	18	100	200	90	14	5.1
MIN	1.7	2.2	1.6	2.5	4.9	4.0	4.9	4.0	3.5	2.2	1.7	1.7
AC-FT	148	166	138	191	496	362	669	1020	993	885	153	166

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955
MEAN	4.36	5.50	4.98	5.02	8.59	22.8	19.8	15.7	8.60	7.12	8.40	3.38				
MAX (WY)	29.1	30.7	25.2	17.7	29.3	184	138	138	42.6	43.8	59.9	18.2				
MIN (WY)	1985	1985	1985	1985	1948	1960	1984	1973	1983	1957	1945	1984				
MIN (WY)	.97	1.32	1.41	1.57	1.99	2.36	1.70	1.43	1.12	.80	.76	.78				
MIN (WY)	1953	1955	1964	1951	1956	1972	1963	1963	1954	1981	1962	1950				

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1940 - 1995

ANNUAL TOTAL	1601.0		2717.1			
ANNUAL MEAN	4.39		7.44		9.53	
HIGHEST ANNUAL MEAN					31.9	
LOWEST ANNUAL MEAN					2.89	
HIGHEST DAILY MEAN	60	Feb 17	200	Jun 29	1400	May 6 1973
LOWEST DAILY MEAN	a 1.0	Jul 4	1.6	Dec 9	b .20	Jul 13 1946
ANNUAL SEVEN-DAY MINIMUM	1.0	Jul 3	1.7	Dec 5	c .29	Jul 10 1946
INSTANTANEOUS PEAK FLOW			Not determined		c 9170	
INSTANTANEOUS PEAK STAGE			d 6.72 Jun 28		e 4.91	
ANNUAL RUNOFF (AC-FT)	3180		5390		6900	
10 PERCENT EXCEEDS	9.5		13		17	
50 PERCENT EXCEEDS	2.8		3.8		4.3	
90 PERCENT EXCEEDS	1.1		1.9		1.3	

a-Also occurred Jul 5-9, and Aug 4-7.

b-Also occurred Sep 30 and Oct 1, 1950.

c-Site and datum then in use, by float measurement.

d-Backwater from beaver dam.

e-Maximum gage height, 6.72 ft, Jun 28, 1995, backwater from beaver dam.

393109104464500 CHERRY CREEK NEAR PARKER, CO

LOCATION.--Lat 39°31'09", long 104°46'45", in SE¹/4NW¹/4NE¹/4 sec.21, T.6 S., R.67 W., Douglas County, Hydrologic Unit 10190003, on right bank 200 ft upstream from Main Street, 0.8 mi west of City of Parker, and 1,100 ft downstream from mouth of Sulphur Gulch.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,805 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 23 to Dec. 2, and Jan. 18 to Apr. 7. Records poor. Several diversions upstream from station for irrigation. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	.78	.86	.89	1.4	1.7	5.2	15	23	90	3.7	.73
2	1.3	.74	.68	.93	1.3	1.5	5.4	14	22	52	3.6	.73
3	1.3	.73	.64	.97	1.3	1.8	6.0	19	43	36	3.7	.73
4	1.3	.76	.62	.92	1.3	1.7	6.4	15	52	25	3.7	.66
5	1.4	.70	.54	1.0	1.3	2.1	7.0	10	88	22	3.8	.67
6	1.5	.69	.56	1.1	1.6	3.0	6.2	12	41	16	3.7	.99
7	1.5	.76	.55	1.2	1.8	3.3	6.0	17	28	11	3.8	1.5
8	1.6	.69	.45	1.7	1.5	2.9	6.6	14	25	15	3.8	1.1
9	1.6	.69	.50	2.2	1.4	2.8	9.1	14	51	9.9	4.1	1.1
10	1.7	.70	.47	2.4	1.5	2.7	9.2	12	40	7.1	3.8	1.1
11	1.8	.80	.53	2.8	1.6	2.7	9.2	9.9	26	6.5	3.8	1.0
12	1.8	.77	.57	2.0	1.4	2.6	9.0	8.5	21	6.5	4.2	1.2
13	1.9	.71	.59	1.7	1.5	2.5	11	8.8	18	6.3	3.6	1.0
14	2.1	.71	.59	2.4	2.5	2.9	13	7.1	16	12	2.2	1.1
15	2.1	.73	.58	2.8	3.9	3.3	13	6.1	14	22	2.3	.87
16	2.1	.87	.62	2.7	3.0	3.8	12	5.2	12	31	2.1	.95
17	2.3	.80	.65	1.1	1.7	3.7	12	88	12	14	2.1	.83
18	2.4	.65	.69	1.3	1.8	3.6	11	144	14	5.7	2.1	1.1
19	2.4	.62	.72	1.2	1.9	4.2	11	57	10	5.0	1.5	1.1
20	2.5	.63	.77	.90	1.8	4.5	12	36	8.9	4.2	1.7	1.3
21	2.5	.53	.78	1.0	1.8	5.0	12	26	7.8	4.0	5.2	1.9
22	2.6	.51	.86	1.1	1.8	5.4	11	26	7.9	3.7	3.2	1.4
23	2.6	.81	.97	1.1	1.7	5.2	11	26	9.6	3.4	9.8	1.1
24	2.6	1.2	1.0	1.1	1.6	4.5	13	23	8.5	3.3	1.4	1.4
25	2.4	1.1	1.1	1.0	1.6	3.5	11	19	7.2	3.1	2.4	1.2
26	2.5	1.1	1.2	1.1	1.6	4.5	18	17	5.9	3.2	1.0	1.3
27	2.5	1.0	1.1	1.3	1.6	5.2	18	57	5.2	3.2	.97	1.5
28	2.3	1.0	1.2	1.4	1.6	6.0	16	59	10	3.3	.85	1.7
29	1.1	.93	1.2	1.5	---	7.0	21	29	229	3.4	.73	1.8
30	.81	.92	1.0	2.3	---	8.4	16	18	150	3.3	.74	1.8
31	.79	---	.87	1.6	---	6.4	---	19	---	3.8	.75	---
TOTAL	58.50	23.63	23.46	46.71	48.8	118.4	327.3	831.6	1006.0	434.9	90.34	34.86
MEAN	1.89	.79	.76	1.51	1.74	3.82	10.9	26.8	33.5	14.0	2.91	1.16
MAX	2.6	1.2	1.2	2.8	3.9	8.4	21	144	229	90	9.8	1.9
MIN	.79	.51	.45	.89	1.3	1.5	5.2	5.2	5.2	3.1	.73	.66
AC-FT	116	47	47	93	97	235	649	1650	2000	863	179	69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

	1992	1993	1994	1995	1992	1993	1994	1995	1992	1993	1994	1995
MEAN	1.78	2.41	3.14	4.64	9.99	19.0	15.7	11.9	13.2	5.25	2.04	1.21
MAX	2.23	4.04	5.92	7.78	14.1	42.8	21.7	26.8	33.5	14.0	3.51	1.74
(WY)	1994	1993	1993	1993	1993	1992	1993	1995	1995	1995	1992	1992
MIN	1.26	.79	.76	1.51	1.74	3.82	9.93	5.23	1.87	1.04	.58	.73
(WY)	1992	1995	1995	1995	1995	1995	1994	1992	1994	1994	1994	1994

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1992 - 1995

ANNUAL TOTAL	1743.01	3044.50		
ANNUAL MEAN	4.78	8.34	7.49	
HIGHEST ANNUAL MEAN			8.92	1992
LOWEST ANNUAL MEAN			5.36	1994
HIGHEST DAILY MEAN	50	Feb 18	229	Jun 29 1995
LOWEST DAILY MEAN	^a .43	Aug 24	.45	Dec 8
ANNUAL SEVEN-DAY MINIMUM	.45	Aug 21	.51	Dec 5
INSTANTANEOUS PEAK FLOW			^c 457	Jun 29 1995
INSTANTANEOUS PEAK STAGE			7.17	Jun 29 1995
ANNUAL RUNOFF (AC-FT)	3460	6040	5430	
10 PERCENT EXCEEDS	13	18	17	
50 PERCENT EXCEEDS	1.6	2.4	3.5	
90 PERCENT EXCEEDS	.59	.73	.95	

a-Also occurred Aug 25.
b-Also occurred Aug 25, 1994.
c-From rating curve extended above 140 ft /s.

PLATTE RIVER BASIN

06712990 CHERRY CREEK LAKE NEAR DENVER, CO

LOCATION.--Lat 39°39'03", long 104°51'13", in NW¹/4NE¹/4 sec.2, T.5 S., R.67 W., Arapahoe County, Hydrologic Unit 10190003, 0.2 mi from right end of dam, 0.8 mi southwest from intersection of Interstate Highway 225 and Parker Road, 1.6 mi northwest of intersection of Parker and Airline Roads, and 11.5 mi upstream from mouth.

DRAINAGE AREA.--385 mi².

PERIOD OF RECORD.--Contents, October 1960 to current year. Water-quality data available, October 1976 to September 1981.

GAGE.--Water-stage recorder. Datum of gage is 5,598.00 ft above sea level (levels by U.S. Army, Corps of Engineers); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by earthfill dam. Dam completed in June 1950; storage began May 15, 1957. Capacity, 92,820 acre-ft, at elevation 5,598.00 ft, crest of spillway. No dead storage. Figures given represent total contents. Reservoir is for flood control and recreation.

COOPERATION.--Records provided by U.S. Army, Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 31,120 acre-ft, June 3, 1973, elevation, 5,565.82 ft; minimum, 9,980 acre-ft, Nov. 23, 24, 1978, elevation, 5,545.90 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 13,660 acre-ft, May 19, elevation, 5,551.00 ft; minimum, 11,780 acre-ft, Oct. 1, 16, elevation, 5,548.76 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	5,548.75	11,780	-
Oct. 31.	5,548.78	11,800	+20
Nov. 30.	5,548.93	11,920	+120
Dec. 31.	5,548.96	11,940	+20
CAL YR 1994.	-	-	-730
Jan. 31.	5,548.98	11,960	+20
Feb. 28.	5,549.04	12,010	+50
Mar. 31.	5,549.03	12,000	-10
Apr. 30.	5,550.28	13,040	+1,040
May 31.	5,550.49	13,230	+190
June 30.	5,550.73	13,430	+200
July 31.	5,550.11	12,900	-530
Aug. 31.	5,550.04	12,840	-60
Sept. 30.	5,550.11	12,900	+60
WTR YR 1995.	-	-	+1,120

06713000 CHERRY CREEK BELOW CHERRY CREEK LAKE, CO

LOCATION.--Lat 39°39'10", long 104°51'40", in SW¹/4SW¹/4 sec.35, T.4 S., R.67 W., Denver County, Hydrologic Unit 10190003, on right bank 2,000 ft downstream from Cherry Creek Dam, 2.2 mi southeast of Sullivan, 9 mi southeast of Civic Center in Denver, and 11 mi upstream from mouth.

DRAINAGE AREA.--385 mi².

PERIOD OF RECORD.--June 1950 to current year.

REVISED RECORDS.--WSP 1730: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,490.51 ft above sea level, (Corps of Engineers bench mark).

REMARKS.--Estimated daily discharges: May 16. Records fair except for discharges less than 1 ft³/s, which are poor. Flow regulated by Cherry Creek Lake (see elsewhere in this report). Diversions upstream from station for irrigation of about 1,800 acres. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known, 34,000 ft³/s, Aug. 3, 1933, by slope-area measurement near present site (Castlewood Dam failure).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	2.2	2.3	1.5	1.8	4.9	68	23	.64	.21
2	.00	.00	.00	2.1	2.3	1.5	1.7	15	55	23	.60	.20
3	.00	.00	.00	2.0	2.3	1.5	1.7	14	35	23	.59	.20
4	.00	.00	.00	2.0	2.4	1.5	1.6	14	36	23	.59	.20
5	.00	.00	.00	2.0	2.2	1.4	1.5	9.9	36	11	.59	.20
6	.00	.00	1.0	2.4	2.3	1.4	1.5	.00	41	1.3	.61	.25
7	.00	.00	2.2	2.4	2.3	1.3	.95	.00	46	9.5	.65	.27
8	.00	.00	2.2	2.0	2.5	1.3	.00	.00	46	23	.64	.13
9	.00	.00	2.2	2.0	2.6	1.3	.00	14	46	23	.59	.00
10	.00	.00	2.2	2.0	2.6	1.3	.00	22	46	24	.59	.00
11	.00	.00	2.3	2.0	2.5	1.4	.00	102	45	24	.67	.00
12	.00	.00	2.4	2.0	2.4	1.3	.00	19	45	25	.50	.00
13	.00	.00	2.5	1.8	2.2	1.3	.00	19	45	26	.58	.00
14	.00	.00	2.2	1.8	2.3	1.9	.00	19	45	28	.49	.06
15	.00	.00	2.0	1.9	2.1	3.0	.00	5.4	33	29	.53	.10
16	.00	.00	2.0	1.8	2.0	3.0	.00	.10	13	30	.56	.00
17	.00	.00	1.8	1.9	2.1	2.9	.00	1.1	13	31	.47	.00
18	.00	.00	1.8	2.0	2.1	3.0	.00	20	4.5	32	1.9	.00
19	.00	.00	1.8	2.1	2.0	2.9	.00	78	.00	32	.32	.17
20	.00	.00	1.9	2.2	2.1	2.9	.00	110	.00	31	.22	.10
21	.00	.00	2.0	2.3	2.1	2.9	.00	110	.00	20	.20	.22
22	.00	.00	2.0	2.4	2.1	2.8	.00	110	.00	8.7	.20	.00
23	.00	.00	2.0	2.4	2.0	1.6	.00	88	.00	8.6	.20	.00
24	.00	.00	2.0	2.4	2.0	1.5	.00	44	.00	7.5	.12	.00
25	.00	.00	2.0	2.5	2.0	1.5	.00	33	.00	7.1	.19	.00
26	.00	.00	2.0	2.5	1.8	1.7	.00	29	.00	6.8	.20	.00
27	.00	.00	2.0	2.3	1.7	1.8	.00	23	.00	4.1	.20	.00
28	.00	.00	2.0	2.2	1.6	1.8	.00	48	.19	.20	.20	.00
29	.00	.00	2.1	2.3	---	1.8	.00	69	.00	.30	.20	.15
30	.00	.00	2.0	2.2	---	1.7	.00	69	14	.57	.20	.08
31	.00	---	2.1	2.2	---	1.8	---	68	---	.62	.20	---
TOTAL	0.00	0.00	52.70	66.3	60.9	58.5	10.75	1158.40	712.69	536.29	14.44	2.54
MEAN	.000	.000	1.70	2.14	2.17	1.89	.36	37.4	23.8	17.3	.47	.085
MAX	.00	.00	2.5	2.5	2.6	3.0	1.8	110	68	32	1.9	.27
MIN	.00	.00	.00	1.8	1.6	1.3	.00	.00	.00	.20	.12	.00
AC-FT	.00	.00	105	132	121	116	21	2300	1410	1060	29	5.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1995, BY WATER YEAR (WY)

	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995														
MEAN	1.54	1.62	2.38	1.87	6.73	12.2	16.2	10.3	9.63	4.98	10.6	2.77																																																
MAX	29.6	38.5	39.1	42.4	60.3	108	166	104	243	71.3	218	54.2																																																
(WY)	1985	1985	1985	1985	1984	1974	1984	1984	1973	1983	1965	1965																																																
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000																																																
(WY)	1958	1958	1958	1958	1958	1958	1958	1958	1961	1964	1957	1957																																																

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1950 - 1995

ANNUAL TOTAL		1658.50		2673.51		
ANNUAL MEAN		4.54		7.32		6.74
HIGHEST ANNUAL MEAN						38.8
LOWEST ANNUAL MEAN						.000
HIGHEST DAILY MEAN	62	Feb 24			a 110	May 20
LOWEST DAILY MEAN	.00	Jan 1			b .00	Oct 1
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1			c .00	Oct 1
INSTANTANEOUS PEAK FLOW				1200		May 11
INSTANTANEOUS PEAK STAGE			6.27	May 11		d 6.07
ANNUAL RUNOFF (AC-FT)		3290		5300		4880
10 PERCENT EXCEEDS		12		25		4.1
50 PERCENT EXCEEDS		.61		1.5		.00
90 PERCENT EXCEEDS		.00		.00		.00

a-Also occurred May 21, 22.

b-No flow many days.

c-No flow most of time since May 1957.

d-Maximum gage height, 6.27 ft, May 11, 1995.

PLATTE RIVER BASIN

06713300 CHERRY CREEK AT GLENDALE, CO

LOCATION.--Lat 39°42'22", long 104°56'13", in SW¹/4NW¹/4 sec.18, T.4 S., R.67 W., Denver County, Hydrologic Unit 10190003, on left bank 900 ft upstream from Colorado Boulevard, on Cherry Creek South Drive and Ash Court, in the City of Glendale, and 5 miles downstream from Cherry Creek Reservoir.

DRAINAGE AREA.--404 mi².

PERIOD OF RECORD.--January 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,320 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Aug. 16 to Sept. 20, and Sept. 26-28. Records poor. Flow regulated by Cherry Creek Lake (see elsewhere in this report). Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	3.6	2.1	2.0	3.0	2.7	3.8	12	101	51	31	36
2	9.0	3.3	2.2	2.1	2.9	3.1	4.1	33	103	60	29	37
3	4.0	3.8	2.1	2.2	2.9	3.2	4.4	54	114	61	30	38
4	3.4	6.7	2.0	1.9	2.9	3.6	4.8	30	168	52	30	42
5	3.7	3.3	1.9	2.1	2.8	2.8	4.0	30	117	50	30	39
6	3.7	2.9	2.3	2.3	5.6	25	4.0	15	87	41	33	38
7	3.2	3.3	1.9	3.3	3.1	5.8	3.9	26	91	38	32	42
8	4.4	7.7	1.8	3.3	3.0	3.9	3.6	56	168	51	31	45
9	3.1	3.7	1.8	2.8	3.1	3.2	23	25	221	57	31	50
10	3.2	2.7	1.8	2.7	3.3	2.9	30	40	74	55	29	54
11	3.1	2.6	1.8	2.6	3.0	2.8	18	100	82	52	31	48
12	2.9	2.4	1.7	2.2	2.8	2.6	10	42	90	52	45	50
13	2.7	2.5	1.6	3.1	3.2	2.5	8.8	39	85	55	29	47
14	3.5	34	1.9	3.3	39	2.4	11	40	87	76	30	46
15	3.5	9.6	1.7	3.2	13	3.2	6.9	31	88	108	31	43
16	2.9	5.6	1.8	3.1	5.5	3.3	5.8	25	64	117	40	42
17	25	4.3	1.8	3.1	4.7	3.9	6.4	461	66	112	35	45
18	6.3	2.9	1.8	2.9	4.9	3.6	16	104	66	60	32	43
19	4.3	2.5	1.9	2.0	4.9	3.7	39	82	36	130	34	50
20	4.3	2.6	2.0	2.2	4.5	3.4	13	122	35	64	35	56
21	4.0	2.5	1.8	2.3	4.1	3.5	29	121	32	44	36	59
22	3.9	2.3	1.9	2.3	4.3	3.6	13	112	32	38	36	57
23	3.7	2.3	1.8	2.4	3.4	3.2	37	104	34	35	34	31
24	3.8	2.3	1.8	2.3	3.5	2.8	29	82	55	38	35	30
25	3.5	2.4	2.0	2.4	3.4	2.7	21	64	46	38	36	24
26	3.5	2.3	2.1	3.1	3.2	5.2	85	111	40	31	37	30
27	3.4	2.1	2.2	5.2	3.1	4.2	19	313	34	33	36	28
28	3.3	2.2	2.4	5.9	3.7	10	24	115	131	31	36	35
29	3.4	2.0	2.1	7.9	---	5.6	50	150	153	37	36	56
30	3.5	2.1	2.1	3.7	---	4.5	51	104	60	35	35	48
31	3.6	---	1.9	3.3	---	3.8	---	101	---	32	35	---
TOTAL	144.3	132.5	60.0	93.2	146.8	136.7	578.5	2744	2560	1734	1040	1289
MEAN	4.65	4.42	1.94	3.01	5.24	4.41	19.3	88.5	85.3	55.9	33.5	43.0
MAX	25	34	2.4	7.9	39	25	85	461	221	130	45	59
MIN	2.7	2.0	1.6	1.9	2.8	2.4	3.6	12	32	31	29	24
AC-FT	286	263	119	185	291	271	1150	5440	5080	3440	2060	2560

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1995, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	12.8	10.0	9.48	11.4	17.9	30.3	38.1	38.4	38.2	24.0	23.9	18.8
MAX	38.0	22.2	29.8	45.7	53.2	75.2	74.5	88.5	85.3	55.9	42.9	43.0
(WY)	1986	1988	1988	1985	1988	1985	1986	1995	1995	1995	1991	1995
MIN	4.65	4.42	1.94	3.01	3.46	4.41	9.81	16.2	13.7	5.71	8.41	3.90
(WY)	1995	1995	1995	1995	1990	1995	1991	1993	1990	1994	1986	1994

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1985 - 1995	
ANNUAL TOTAL	3675.3		10659.0			
ANNUAL MEAN	10.1		29.2		21.6	
HIGHEST ANNUAL MEAN					36.2	
LOWEST ANNUAL MEAN					10.9	
HIGHEST DAILY MEAN	122	Aug 13	461	May 17	461	May 17 1995
LOWEST DAILY MEAN	1.6	Dec 13	1.6	Dec 13	1.1	Apr 1 1991
ANNUAL SEVEN-DAY MINIMUM	1.8	Dec 9	1.8	Dec 9	1.6	Sep 29 1993
INSTANTANEOUS PEAK FLOW			863	May 17	1970	Jul 20 1986
INSTANTANEOUS PEAK STAGE			6.76	May 17	a	6.74 Jul 20 1986
ANNUAL RUNOFF (AC-FT)	7290		21140		15670	
10 PERCENT EXCEEDS	20		78		60	
50 PERCENT EXCEEDS	5.9		7.7		11	
90 PERCENT EXCEEDS	2.3		2.2		3.8	

a-Maximum gage height, 7.54 ft, Jun 8, 1987.

06713500 CHERRY CREEK AT DENVER, CO

LOCATION (REVISED).--Lat 39°44'47", long 105°00'00", in NE¹/₄ sec.33, T.3 S., R.68 W., Denver County, Hydrologic Unit 10190003, on right bank 300 ft upstream from Market Street Bridge in Denver, and 0.7 mi upstream from mouth.

DRAINAGE AREA.--409 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1942 to September 1969, February 1980 to September 1983, and annual maximums 1984, 1985. April 1986 to current year.

REVISED RECORDS.--WSP 1710: Drainage area. WDR CO-82-1: 1982 (M).

GAGE.--Water-stage recorder. Elevation of gage is 5,180 ft above sea level, from topographic map. See WSP 1730 for history of changes prior to July 16, 1951. Prior to March 1, 1995, at site 0.2 mi downstream, on downstream side of Wazee Street Bridge, at different datum.

REMARKS.--Estimated daily discharges: Nov. 30, Dec. 2, and Feb. 18 to Mar. 27. Records good except for estimated daily discharges which are poor. Several diversions upstream from station for irrigation of about 1,900 acres. Floodflow regulated by Cherry Creek Reservoir 11 mi upstream, capacity, 95,960 acre-ft. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 26, 1885, reached a discharge of 20,000 ft³/s, by float measurement. Flood of May 19 and 20, 1864, reached a somewhat higher stage. Flood of Aug. 3, 1933, reached a discharge of about 15,000 ft³/s, as determined by rise of South Platte River at Denver.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	8.9	9.8	7.7	8.5	5.8	8.3	23	96	69	36	34
2	30	10	8.6	7.6	8.1	6.0	7.4	87	109	77	32	36
3	15	14	9.0	8.1	8.3	6.2	5.2	128	110	79	31	41
4	11	19	8.5	7.9	8.6	6.8	7.3	89	145	71	33	38
5	13	14	9.7	8.1	8.7	8.0	13	62	109	67	32	33
6	14	7.6	9.7	8.5	10	10	5.4	24	87	57	36	31
7	13	7.1	7.9	9.5	8.9	25	6.3	26	88	50	33	31
8	15	14	7.5	8.9	8.6	8.0	5.7	138	184	60	32	31
9	13	11	7.8	8.8	8.1	7.0	42	19	253	62	30	77
10	12	7.1	7.4	9.0	8.2	6.4	53	34	87	64	28	53
11	11	5.8	7.3	8.5	7.4	6.4	28	88	91	66	34	50
12	12	5.2	7.3	8.5	5.3	6.4	22	36	96	62	53	47
13	11	6.1	7.4	9.1	5.2	6.0	19	36	87	62	31	43
14	11	36	7.6	9.0	60	6.0	32	33	84	82	31	48
15	12	17	7.2	8.8	19	6.6	20	27	87	108	31	29
16	10	13	7.1	8.9	9.0	7.0	21	22	57	158	26	25
17	53	12	6.7	9.0	6.7	7.4	26	465	67	133	25	27
18	19	11	7.0	9.3	6.2	7.0	51	105	59	86	117	28
19	15	10	7.0	8.2	6.4	6.6	96	83	22	167	216	68
20	14	11	7.2	8.4	6.0	7.0	34	132	21	81	52	65
21	14	9.7	7.1	8.3	6.2	6.4	69	134	19	74	63	110
22	14	9.4	6.9	8.1	6.6	6.4	39	122	18	63	42	60
23	14	9.8	7.1	8.0	6.2	6.4	87	116	20	57	36	30
24	14	9.7	6.9	8.1	5.8	5.6	43	81	46	54	37	24
25	13	9.7	6.7	8.6	6.0	5.4	35	57	38	53	43	20
26	11	9.6	6.7	8.8	5.6	7.4	202	143	32	42	38	17
27	8.0	9.5	7.5	11	6.2	14	32	323	24	41	39	16
28	9.3	9.3	8.0	12	6.4	21	39	130	153	39	39	16
29	9.2	9.1	7.8	14	---	18	111	137	193	43	38	75
30	9.5	9.0	7.8	10	---	13	112	105	82	43	34	78
31	10	---	7.8	9.0	---	8.7	---	101	---	40	31	---
TOTAL	469.0	334.6	238.0	277.7	266.2	267.9	1271.6	3106	2564	2210	1379	1281
MEAN	15.1	11.2	7.68	8.96	9.51	8.64	42.4	100	85.5	71.3	44.5	42.7
MAX	53	36	9.8	14	60	25	202	465	253	167	216	110
MIN	8.0	5.2	6.7	7.6	5.2	5.4	5.2	19	18	39	25	16
AC-FT	930	664	472	551	528	531	2520	6160	5090	4380	2740	2540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1995, BY WATER YEAR (WY)

	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956
MEAN	13.4	10.8	9.16	8.81	14.8	23.9	25.8	35.1	29.6	23.4	37.6	16.2			
MAX	31.2	30.3	54.4	27.5	73.8	179	119	119	117	161	236	64.9			
(WY)	1943	1988	1988	1943	1948	1948	1983	1983	1944	1983	1945	1965			
MIN	3.66	3.61	3.39	3.17	4.18	3.25	3.28	6.10	3.17	3.74	4.05	4.03			
(WY)	1949	1955	1956	1956	1952	1955	1955	1966	1946	1948	1948	1948			

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1942 - 1995

ANNUAL TOTAL	6868.1	13665.0	
ANNUAL MEAN	18.8	37.4	
HIGHEST ANNUAL MEAN			20.7
LOWEST ANNUAL MEAN			70.7
HIGHEST DAILY MEAN	159	Aug 13	1983
LOWEST DAILY MEAN	5.2	Nov 12	6.00
ANNUAL SEVEN-DAY MINIMUM	6.9	Dec 20	1954
INSTANTANEOUS PEAK FLOW			1350
INSTANTANEOUS PEAK STAGE			Aug 8 1945
ANNUAL RUNOFF (AC-FT)	13620	27100	14980
10 PERCENT EXCEEDS	33	90	39
50 PERCENT EXCEEDS	14	18	9.8
90 PERCENT EXCEEDS	7.4	6.7	4.3

a-Also occurred Feb 13 and Apr 3.
b-Also occurred Jun 17-18, 1948.
c-Site and datum then in use.
d-Maximum gage height, 11.91 ft, Jun 17, 1965, backwater from South Platte River.

06713500 CHERRY CREEK AT DENVER, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1993 to July 1995 (Discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
OCT										
04...	1135	11	1160	8.3	16.5	7.9	350	110	18	100
17...	0945	87	391	7.8	10.0	8.4	110	33	5.6	32
NOV										
17...	1030	12	1110	8.2	7.5	10.9	320	100	17	100
DEC										
02...	0925	8.4	1160	8.3	7.0	10.2	320	100	17	100
JAN										
03...	1415	7.6	1340	8.4	7.5	11.0	380	120	19	120
FEB										
09...	1240	8.0	1320	8.7	12.5	10.8	380	120	20	130
MAR										
06...	1050	28	1380	8.1	4.5	10.7	280	83	17	150
APR										
05...	0820	24	937	8.2	10.0	9.9	280	86	15	82
MAY										
15...	1415	28	1090	8.5	21.0	7.1	330	100	20	93
JUN										
05...	1300	96	809	8.2	17.5	7.8	250	73	16	68
JUL										
07...	1440	43	759	8.0	24.5	7.4	220	68	13	62

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- A WAT DIS TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT										
04...	7.0	--	210	110	0.8	20	718	<0.01	3.7	<0.015
17...	5.7	66	61	31	0.4	6.4	231	0.04	1.2	0.33
NOV										
17...	6.7	187	200	110	0.7	17	704	0.03	3.4	0.04
DEC										
02...	6.5	--	210	100	0.8	17	675	0.03	4.0	0.03
JAN										
03...	8.8	228	230	130	0.7	19	862	0.04	4.8	0.04
FEB										
09...	8.0	227	240	150	0.7	19	880	0.11	3.8	0.05
MAR										
06...	15	141	160	230	0.6	11	800	0.06	1.8	0.43
APR										
05...	5.9	174	150	88	0.9	11	576	0.04	2.0	0.02
MAY										
15...	6.3	184	240	84	0.7	14	704	0.01	1.2	0.03
JUN										
05...	5.1	134	170	54	0.7	9.2	513	<0.01	0.65	0.02
JUL										
07...	4.2	139	130	64	0.7	14	491	<0.01	1.7	0.03

A-Total alkalinity, determined in field by fixed end-point titration method on filtered sample.

06713500 CHERRY CREEK AT DENVER, CO--Continued
(National Water-Quality Assessment Program station)

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT									
04...	0.30	0.20	0.26	0.24	0.28	6	17	3.5	0.2
17...	2.6	0.90	0.74	0.32	0.30	100	50	15	9.5
NOV									
17...	0.70	0.30	0.48	0.26	0.25	5	37	4.8	2.6
DEC									
02...	0.30	0.30	0.30	0.30	0.31	4	5	2.8	0.2
JAN									
03...	0.30	<0.20	0.33	0.32	0.33	12	6	2.7	0.4
FEB									
09...	0.30	0.30	0.35	0.32	0.34	3	6	3.1	0.4
MAR									
06...	2.9	1.7	0.78	0.29	0.25	15	26	8.4	7.7
APR									
05...	1.5	0.30	1.9	0.24	0.24	7	7	3.3	1.0
MAY									
15...	0.60	0.50	0.18	0.15	0.15	<3	4	4.6	0.6
JUN									
05...	0.80	0.30	0.25	0.07	0.08	15	4	5.4	2.6
JUL									
07...	0.40	0.30	0.16	0.14	0.14	18	3	4.3	0.8

06714000 SOUTH PLATTE RIVER AT DENVER, CO

LOCATION.--Lat 39°45'35", long 105°00'10", in NW¹/4SE¹/4 sec.28, T.3 S., R.68 W., Denver County, Hydrologic Unit 10190003, on right bank 90 ft upstream from Nineteenth Street Bridge in Denver and 0.4 mi downstream from Cherry Creek.

DRAINAGE AREA.--3,861 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to October 1889, June to October 1890, July 1895 to current year. Monthly discharge only for some periods, published in WSP 1310. Statistical summary computed for 1976 to current year.

REVISED RECORDS.--WSP 1310: 1934(M). WSP 1730: 1957(M). WDR CO-86-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,157.64 ft above sea level, adjustment of 1960. Prior to Aug. 12, 1909, nonrecording gages, and Aug. 12, 1909, to Aug. 28, 1931, water-stage recorder, at several sites within 0.5 mi of present site at various datums. Aug. 29, 1931, to June 28, 1965, water-stage recorder at site 70 ft downstream at datum 3.66 ft, lower. June 29, 1965, to Mar. 18, 1966, water-stage recorder at site 70 ft downstream at present datum.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 79,000 acres and municipal use, and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	70	98	93	84	62	103	407	2160	2900	756	635
2	129	95	100	94	89	61	99	443	2330	3180	696	517
3	94	182	101	95	89	70	96	512	2530	3040	592	408
4	104	229	97	91	91	78	90	465	3330	3150	542	345
5	118	142	98	93	87	81	103	460	2730	3390	489	307
6	112	117	102	85	95	188	145	512	2400	3560	483	298
7	102	110	98	97	84	133	91	487	2340	3690	466	317
8	125	147	96	99	83	115	77	1020	2120	3680	485	313
9	116	159	95	96	80	113	166	532	2500	3640	565	362
10	108	117	87	98	83	95	251	536	1620	3570	616	313
11	96	121	93	89	91	87	256	534	1700	3420	547	336
12	92	137	95	96	89	86	305	469	1900	3150	437	384
13	91	140	93	104	107	85	187	464	2500	2960	383	193
14	99	297	83	98	304	82	142	473	2710	2890	460	216
15	105	287	80	93	179	86	124	457	2390	2890	518	148
16	97	216	79	92	103	84	123	466	2180	2860	488	142
17	291	143	76	88	74	98	151	3530	2480	2880	469	132
18	150	105	76	90	77	90	252	1750	2210	2820	895	135
19	114	165	81	94	75	92	433	1820	2170	3220	848	298
20	105	181	73	89	70	96	188	2110	2540	3070	476	269
21	104	188	72	85	64	82	282	2220	2740	2730	478	531
22	93	139	75	85	59	80	297	2290	2820	2250	470	283
23	92	101	78	88	67	89	265	1910	2990	2210	595	203
24	93	115	82	82	67	83	303	1880	3150	1820	682	200
25	83	107	83	78	75	84	267	1980	3100	1230	680	177
26	78	111	79	76	73	120	731	2210	3150	953	595	154
27	77	106	81	84	72	100	377	3180	3300	821	565	142
28	70	100	88	91	101	144	352	2170	3980	721	588	129
29	79	96	92	123	---	123	530	2220	3610	734	626	279
30	85	101	102	102	---	113	555	2170	2550	741	680	348
31	96	---	100	86	---	106	---	2230	---	752	704	---
TOTAL	3398	4324	2733	2854	2612	3006	7341	41907	78230	78922	17874	8514
MEAN	110	144	88.2	92.1	93.3	97.0	245	1352	2608	2546	577	284
MAX	291	297	102	123	304	188	731	3530	3980	3690	895	635
MIN	70	70	72	76	59	61	77	407	1620	721	383	129
AC-FT	6740	8580	5420	5660	5180	5960	14560	83120	155200	156500	35450	16890

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

MEAN	202	195	139	126	143	199	444	965	867	608	488	234
MAX (WY)	1184	809	366	282	273	420	1377	2970	2759	2546	1774	911
MIN (WY)	1985	1985	1985	1985	1984	1983	1984	1980	1983	1995	1984	1984
MIN (WY)	66.8	94.4	84.1	64.9	80.7	94.9	99.1	218	164	139	177	76.5
(WY)	1978	1976	1978	1979	1977	1978	1982	1978	1981	1994	1981	1977

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1976 - 1995
ANNUAL TOTAL	70311	251715	
ANNUAL MEAN	193	690	^a 385
HIGHEST ANNUAL MEAN			961
LOWEST ANNUAL MEAN			138
HIGHEST DAILY MEAN	1240	3980	^b 4020
LOWEST DAILY MEAN	^c 70	59	^d 43
ANNUAL SEVEN-DAY MINIMUM	74	68	50
INSTANTANEOUS PEAK FLOW		8440	^e 12200
INSTANTANEOUS PEAK STAGE		9.42	^f 7.77
ANNUAL RUNOFF (AC-FT)	139500	499300	279300
10 PERCENT EXCEEDS	410	2540	778
50 PERCENT EXCEEDS	127	147	186
90 PERCENT EXCEEDS	81	81	84

a-Average discharge for 79 years (water years 1896-1974), 344 ft³/s; 249200 acre-ft/yr, prior to completion of Chatfield Dam.

b-Maximum daily discharge for period of record, 12000 ft³/s, Jun 17, 1965.

c-Also occurred Nov 1.

d-Minimum daily discharge for period of record, 8.8 ft³/s, Mar 25, 1951.

e-Maximum discharge and stage for period of record, 40300 ft³/s, Jun 17, 1965, gage height, 18.66 ft, from floodmarks, present datum, from rating curve extended above 2700 ft³/s, on basis of contracted-opening measurement of peak flow.

f-Maximum gage height for statistical period, 9.42 ft, Jun 4, 1995.

06714000 SOUTH PLATTE RIVER AT DENVER, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS, TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT										
04...	1440	106	925	8.1	17.0	7.8	260	77	16	85
17...	1030	370	657	7.7	11.5	7.9	180	53	11	60
NOV										
17...	1330	126	850	8.0	7.5	9.4	230	71	14	77
DEC										
02...	1310	82	970	8.2	9.0	11.1	260	79	16	89
JAN										
09...	1300	69	984	7.9	7.0	10.1	250	75	15	91
FEB										
06...	1430	114	958	8.0	8.5	10.4	260	77	16	87
MAR										
06...	1230	175	1170	7.8	6.0	11.5	240	65	19	130
APR										
05...	1320	90	896	7.9	15.5	9.6	240	72	15	85
MAY										
16...	1235	361	509	7.9	13.0	8.6	150	45	9.6	40
17...	1240	5800	204	8.0	10.0	8.8	58	18	3.1	14
JUN										
09...	0845	3350	265	7.8	11.0	9.5	81	24	5.1	18
27...	0910	3320	220	7.8	15.5	8.0	67	19	4.7	13
AUG										
04...	1310	536	451	8.0	20.5	7.9	140	41	10	35
SEP										
11...	1110	334	567	7.9	17.0	8.5	160	47	11	46

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-A LINITY WAT DIS TOT FET FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
OCT										
04...	6.7	--	160	72	0.9	12	593	0.09	6.5	0.24
17...	9.6	112	110	49	0.7	7.9	401	0.21	5.3	0.86
NOV										
17...	6.0	153	140	64	1.0	8.5	527	0.18	5.6	0.60
DEC										
02...	6.5	164	170	70	1.0	10	601	0.15	8.9	0.35
JAN										
09...	8.2	158	160	84	0.9	10	606	0.31	9.0	2.0
FEB										
06...	7.2	148	160	72	1.0	9.2	596	0.28	8.9	0.96
MAR										
06...	7.8	129	140	170	1.0	7.7	678	0.24	7.8	1.3
APR										
05...	7.3	127	150	73	1.0	2.8	559	0.20	11	0.28
MAY										
16...	3.0	101	79	41	0.7	11	306	0.03	1.9	0.09
17...	2.4	43	25	12	0.3	4.2	118	0.03	0.48	0.45
JUN										
09...	2.1	53	37	15	0.5	7.6	161	0.01	0.45	0.06
27...	1.6	51	25	13	0.6	11	128	0.01	0.21	0.02
AUG										
04...	2.7	96	60	32	0.7	10	272	<0.01	1.8	<0.01
SEP										
11...	3.2	118	91	39	0.8	8.7	342	0.02	1.9	<0.01

A-Total Alkalinity, determined in field by fixed end-point titration method on filtered sample.

06714000 SOUTH PLATTE RIVER AT DENVER, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT									
04...	1.1	0.90	1.3	1.2	1.2	46	98	5.2	1.4
17...	3.0	1.7	1.4	0.88	0.90	160	95	13	7.3
NOV									
17...	1.5	1.0	1.0	0.84	0.83	43	130	5.2	1.5
DEC									
02...	1.2	1.0	1.2	1.1	1.1	65	130	4.7	0.5
JAN									
09...	3.0	3.1	1.6	1.4	1.3	48	140	5.4	1.1
FEB									
06...	2.2	1.8	1.4	1.2	1.3	41	120	5.0	1.3
MAR									
06...	2.7	2.4	1.5	1.2	1.1	54	110	8.2	2.5
APR									
05...	1.2	1.5	1.8	1.9	1.3	78	180	6.0	1.3
MAY									
16...	0.70	0.50	0.43	0.32	0.24	110	51	5.4	1.3
17...	2.9	0.90	0.91	0.10	0.09	140	54	4.2	14
JUN									
09...	1.0	0.40	0.29	0.08	0.09	160	11	4.6	3.0
27...	0.40	0.30	0.12	0.03	<0.01	60	8	5.7	0.8
AUG									
04...	0.40	0.30	0.22	0.18	0.19	19	19	4.3	0.9
SEP									
11...	0.50	0.30	0.29	0.23	0.21	59	26	4.1	1.6

06714215 SOUTH PLATTE RIVER AT 64TH AVENUE AT COMMERCE CITY, CO

LOCATION.--Lat 39°48'44", long 104°57'28", in NW¹/4NW¹/4 sec.12, T.3 S., R.68 W., Adams County, Hydrologic Unit 10190003, on right bank 300 ft southeast of intersection of York Street and East 64th Avenue and 1,900 ft upstream from mouth of Sand Creek at northeast corner of Metro Denver Sewage Disposal plant at Commerce City.

DRAINAGE AREA.--3,884 mi².

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

REVISED RECORDS.--WDR CO-86-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,105 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 23, 24, 28, 29, and Dec. 10-26. Records fair. Natural flow of stream affected by transmountain diversions, storage and flood-control reservoirs, power developments, diversions for irrigation and municipal use, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	227	19	4.4	24	5.4	5.9	11	35	2310	3010	157	651
2	102	24	7.5	22	6.3	5.4	11	36	2470	3380	120	478
3	36	41	7.7	27	4.4	8.5	14	56	2840	3250	70	319
4	22	17	7.0	27	5.3	7.0	17	66	3600	3330	63	249
5	37	7.8	8.1	37	3.9	6.0	12	88	3040	3660	54	204
6	29	8.5	5.1	17	5.3	11	79	175	2420	3750	54	189
7	21	8.3	5.3	21	5.5	8.3	42	114	2400	3200	48	212
8	22	9.2	5.6	12	6.0	7.4	42	840	2250	3200	52	211
9	13	11	5.3	23	5.4	7.8	137	189	2940	3190	120	308
10	16	8.7	5.4	9.3	3.7	5.8	107	161	1720	3040	241	211
11	14	12	5.6	8.4	7.3	5.5	50	90	1810	2810	137	219
12	14	11	5.8	5.9	16	5.5	66	47	1960	2500	211	299
13	16	13	6.0	7.5	11	3.2	20	42	2640	2280	114	94
14	14	66	6.2	8.0	116	2.1	13	38	2870	2220	178	145
15	18	37	6.4	7.0	15	2.2	9.7	35	2350	2240	138	61
16	18	14	6.6	4.5	6.9	3.3	9.5	30	2090	2550	113	45
17	180	7.9	6.8	6.2	7.4	4.2	9.8	3970	2440	2340	150	39
18	18	8.1	7.0	6.7	7.5	7.7	23	1830	2190	2130	490	44
19	4.4	6.7	7.4	5.3	9.6	13	103	1590	2110	2520	922	202
20	27	7.1	7.8	3.7	8.4	8.2	20	2050	2450	2380	391	188
21	21	7.9	8.0	8.6	13	10	14	2330	2590	2110	393	569
22	22	6.0	8.4	8.4	8.3	8.4	14	2390	2490	1690	421	217
23	22	5.7	8.6	6.2	10	9.5	11	2000	2460	1670	562	120
24	23	5.4	9.0	5.9	7.1	9.8	26	1940	2620	1430	713	111
25	22	5.0	9.2	5.4	7.4	11	62	1990	2530	877	737	94
26	34	5.5	9.6	4.2	5.3	6.6	401	2070	2550	417	601	65
27	31	4.7	10	4.0	9.4	7.3	31	3900	2680	260	547	57
28	17	4.7	21	5.2	10	5.0	25	2300	3510	138	573	52
29	19	4.8	17	7.6	---	4.5	149	2580	3870	146	614	244
30	24	5.0	23	4.1	---	4.0	153	2350	2590	149	703	333
31	32	---	30	4.5	---	6.9	---	2440	---	152	746	---
TOTAL	1115.4	392.0	280.8	346.6	326.8	211.0	1682.0	37772	76790	66019	10433	6230
MEAN	36.0	13.1	9.06	11.2	11.7	6.81	56.1	1218	2560	2130	337	208
MAX	227	66	30	37	116	13	401	3970	3870	3750	922	651
MIN	4.4	4.7	4.4	3.7	3.7	2.1	9.5	30	1720	138	48	39
AC-FT	2210	778	557	687	648	419	3340	74920	152300	130900	20690	12360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1995, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	125	115	66.6	86.8	79.3	131	336	844	621	528	411	144		
MAX	1286	927	199	235	325	305	1335	2675	2560	2130	1410	755		
(WY)	1985	1985	1986	1984	1984	1984	1984	1987	1995	1995	1984	1984		
MIN	10.0	9.00	8.79	11.2	8.57	6.81	21.0	75.1	47.3	42.5	125	20.1		
(WY)	1989	1989	1991	1995	1982	1995	1991	1986	1990	1994	1994	1992		

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1982 - 1995

ANNUAL TOTAL	18637.8	201598.6		
ANNUAL MEAN	51.1	552		
HIGHEST ANNUAL MEAN			825	1983
LOWEST ANNUAL MEAN			50.5	1994
HIGHEST DAILY MEAN	784	Aug 11	3970	May 17
LOWEST DAILY MEAN	^a 4.4	Jan 12	2.1	Mar 14
ANNUAL SEVEN-DAY MINIMUM	4.9	Nov 25	3.7	Mar 11
INSTANTANEOUS PEAK FLOW			9900	May 17
INSTANTANEOUS PEAK STAGE			7.29	May 17
ANNUAL RUNOFF (AC-FT)	36970	399900	220700	
10 PERCENT EXCEEDS	135	2440	745	
50 PERCENT EXCEEDS	18	27	74	
90 PERCENT EXCEEDS	7.8	5.4	8.9	

a-Also occurred Oct 19 and Dec 1.

394115105525600 CLEAR CREEK NEAR LOVELAND PASS, CO

LOCATION.--Lat 39°41'15", long 105°52'56", in NW¹/4SE¹/4 sec.22, T.4 S., R.76 W., Clear Creek County, Hydrologic Unit 10190004, on left bank 0.25 mi downstream from Loveland Valley Ski Area lower parking lot and 2.0 mi north of Loveland Pass.

DRAINAGE AREA.--5.86 mi².

PERIOD OF RECORD.--May to September 1995.

GAGE.--Water-stage recorder. Elevation of gage is 10,615 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: May 1-9. Records are poor. No diversion or regulation upstream from gage. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 314 ft³/s, July 8, 1995, gage height, 1.66 ft.; minimum daily 1.4 ft³/s, May 1, and 5, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period May to September, 314 ft³/s, July 8, at 1730, gage height, 1.66 ft; minimum daily, 1.4 ft³/s, May 1 and 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	1.4	8.2	37	33	13
2	---	---	---	---	---	---	---	1.5	12	36	31	12
3	---	---	---	---	---	---	---	1.6	14	32	28	12
4	---	---	---	---	---	---	---	1.5	17	25	27	12
5	---	---	---	---	---	---	---	1.4	24	27	25	12
6	---	---	---	---	---	---	---	1.5	33	41	24	12
7	---	---	---	---	---	---	---	1.6	34	75	24	11
8	---	---	---	---	---	---	---	1.5	30	123	23	12
9	---	---	---	---	---	---	---	1.5	21	146	23	11
10	---	---	---	---	---	---	---	1.6	17	161	22	10
11	---	---	---	---	---	---	---	2.1	25	117	21	12
12	---	---	---	---	---	---	---	2.1	48	111	19	10
13	---	---	---	---	---	---	---	2.0	76	99	19	9.4
14	---	---	---	---	---	---	---	3.5	104	89	19	9.0
15	---	---	---	---	---	---	---	6.0	96	98	18	8.5
16	---	---	---	---	---	---	---	5.8	109	92	17	8.2
17	---	---	---	---	---	---	---	4.5	105	96	16	7.9
18	---	---	---	---	---	---	---	3.8	70	102	16	9.8
19	---	---	---	---	---	---	---	4.3	77	88	15	8.6
20	---	---	---	---	---	---	---	4.6	81	83	15	9.5
21	---	---	---	---	---	---	---	6.1	94	66	16	10
22	---	---	---	---	---	---	---	8.8	82	60	19	8.3
23	---	---	---	---	---	---	---	9.4	71	50	17	7.1
24	---	---	---	---	---	---	---	8.0	70	48	17	6.9
25	---	---	---	---	---	---	---	6.4	66	49	17	6.8
26	---	---	---	---	---	---	---	5.1	92	48	16	7.2
27	---	---	---	---	---	---	---	4.8	111	44	15	8.2
28	---	---	---	---	---	---	---	4.9	92	43	15	9.8
29	---	---	---	---	---	---	---	5.9	60	43	15	10
30	---	---	---	---	---	---	---	6.1	34	41	14	8.3
31	---	---	---	---	---	---	---	6.1	---	36	13	---
TOTAL	---	---	---	---	---	---	---	125.4	1773.2	2206	609	292.5
MEAN	---	---	---	---	---	---	---	4.05	59.1	71.2	19.6	9.75
MAX	---	---	---	---	---	---	---	9.4	111	161	33	13
MIN	---	---	---	---	---	---	---	1.4	8.2	25	13	6.8
AC-FT	---	---	---	---	---	---	---	249	3520	4380	1210	580

06714400 SOUTH CLEAR CREEK ABOVE LOWER CABIN CREEK RESERVOIR NEAR GEORGETOWN, CO

LOCATION.--Lat 39°39'09", long 105°42'25", in SE¹/4SE¹/4 sec.31, T.4 S., R.74 W., Clear Creek County, Hydrologic Unit 10190004, on left bank at security fence, 6.5 mi south of Georgetown.

DRAINAGE AREA.--11.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to September 1995.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 10,100 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 15-30, Dec. 9 to Mar. 14, Mar. 26 to Apr. 19, June 1, 2, Aug. 2-11, Sept. 1, 2, 11, and Sept. 12. Records poor. No known diversions upstream of station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	4.5	4.1	2.0	1.7	2.0	1.8	2.9	15	74	33	18
2	5.7	4.4	4.0	2.0	1.7	1.9	1.8	3.3	20	70	30	17
3	5.6	4.4	3.9	2.0	1.7	1.9	1.8	3.3	23	68	28	16
4	5.6	4.6	3.9	2.0	1.6	1.9	1.8	3.2	25	63	27	16
5	5.5	4.8	3.9	2.0	1.6	1.9	1.8	3.4	32	58	26	16
6	5.5	5.1	3.9	2.0	1.6	1.9	1.8	3.4	40	58	25	16
7	5.5	5.0	3.9	2.0	1.6	1.9	1.7	3.5	40	61	23	16
8	5.5	4.8	3.8	1.9	1.6	1.9	1.7	3.3	40	61	22	16
9	5.6	4.8	3.7	1.9	1.6	1.9	1.7	3.2	38	62	22	15
10	5.6	5.0	3.5	1.9	1.6	1.9	1.7	3.4	33	66	22	14
11	5.6	5.0	3.4	1.9	1.6	2.0	1.7	3.7	36	70	23	14
12	5.3	5.4	3.3	1.9	1.6	2.0	1.7	4.2	47	72	25	13
13	5.1	4.8	3.2	1.9	1.6	2.1	1.7	4.1	61	72	26	13
14	5.1	4.5	3.1	1.9	1.7	2.2	1.7	5.2	72	72	26	13
15	5.1	4.4	3.0	1.9	1.7	2.8	1.7	7.9	80	67	25	13
16	5.2	4.2	2.9	1.9	1.8	2.3	1.8	8.6	91	63	24	12
17	5.2	4.1	2.8	1.8	1.9	2.3	1.8	6.2	103	60	23	12
18	5.2	4.0	2.8	1.8	1.9	2.3	1.9	7.1	107	61	22	12
19	5.5	3.9	2.7	1.8	2.0	2.2	1.9	7.0	100	59	22	11
20	5.2	3.8	2.6	1.8	2.0	2.1	2.0	8.3	87	60	22	12
21	5.3	3.8	2.5	1.8	2.1	2.2	2.1	9.2	93	54	24	12
22	5.2	3.7	2.5	1.8	2.1	2.3	2.1	11	96	46	25	11
23	5.2	3.7	2.4	1.8	2.1	1.9	2.1	10	89	45	22	11
24	5.3	3.6	2.3	1.8	2.1	1.9	2.2	9.0	82	45	21	10
25	5.3	3.6	2.3	1.7	2.1	1.9	2.4	8.9	80	41	21	10
26	5.4	3.6	2.2	1.7	2.1	1.9	2.4	8.9	78	37	21	9.9
27	5.4	3.6	2.2	1.7	2.0	1.9	2.4	9.8	80	35	20	9.6
28	5.4	3.7	2.1	1.7	2.0	1.8	2.6	10	82	34	20	9.7
29	5.1	3.8	2.1	1.7	---	1.8	2.8	10	78	33	20	9.9
30	4.9	4.0	2.1	1.7	---	1.8	2.9	11	77	35	18	9.8
31	4.5	---	2.1	1.7	---	1.8	---	11	---	37	18	---
TOTAL	165.1	128.6	93.2	57.4	50.7	62.6	59.5	204.0	1925	1739	726	387.9
MEAN	5.33	4.29	3.01	1.85	1.81	2.02	1.98	6.58	64.2	56.1	23.4	12.9
MAX	5.7	5.4	4.1	2.0	2.1	2.8	2.9	11	107	74	33	18
MIN	4.5	3.6	2.1	1.7	1.6	1.8	1.7	2.9	15	33	18	9.6
AC-FT	327	255	185	114	101	124	118	405	3820	3450	1440	769

SUMMARY STATISTICS

FOR 1995 WATER YEAR

ANNUAL TOTAL	5599.0
ANNUAL MEAN	15.3
HIGHEST DAILY MEAN	107 Jun 18
LOWEST DAILY MEAN	^a 1.6 Feb 4
ANNUAL SEVEN-DAY MINIMUM	1.6 Feb 4
INSTANTANEOUS PEAK FLOW	Not determined
INSTANTANEOUS PEAK STAGE	3.43 Jun 19
ANNUAL RUNOFF (AC-FT)	11110
10 PERCENT EXCEEDS	58
50 PERCENT EXCEEDS	4.5
90 PERCENT EXCEEDS	1.8

a-Also occurred Feb 5-13.

06714400 SOUTH CLEAR CREEK ABOVE LOWER CABIN CREEK RESERVOIR NEAR GEORGETOWN, CO--Continued

TEMPERATURE, WATER (DEG. C) WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
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	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	7.9	.8	6.9	3.1	---	---	---	---
2	---	---	---	---	6.4	.7	5.9	3.1	---	---	---	---
3	---	---	---	---	6.1	.4	5.8	3.3	9.7	4.5	12.5	6.3
4	---	---	---	---	6.0	.7	6.9	2.8	10.3	4.9	13.0	6.0
5	---	---	---	---	7.5	.7	10.0	2.9	10.1	4.6	13.1	5.9
6	---	---	---	---	7.6	.4	10.8	3.1	11.3	4.5	11.4	6.6
7	---	---	---	---	6.4	.2	9.8	3.3	12.1	4.9	10.0	6.3
8	---	---	---	---	7.0	1.0	8.4	3.4	12.3	5.7	10.0	5.8
9	---	---	---	---	6.4	.0	9.6	4.0	9.9	5.3	10.0	5.2
10	---	---	---	---	7.5	.2	8.6	3.9	10.9	5.2	11.4	5.2
11	---	---	---	---	9.0	.0	---	---	13.2	6.6	---	---
12	---	---	---	---	8.7	.5	10.4	4.1	11.7	6.0	---	---
13	---	---	---	---	7.3	.6	8.5	4.1	12.7	6.1	10.8	3.9
14	---	---	---	---	7.7	.7	6.5	4.3	10.5	6.1	9.8	4.7
15	---	---	---	---	6.5	1.0	9.7	3.5	12.7	4.7	11.6	3.9
16	---	---	3.5	.5	6.6	1.1	8.2	3.7	12.2	5.1	9.7	3.9
17	---	---	.5	.0	4.1	1.4	8.2	4.3	11.1	6.3	9.3	4.2
18	---	---	1.1	.0	6.5	.5	7.4	4.8	12.8	5.6	9.1	4.9
19	---	---	6.1	.2	7.7	.8	8.8	4.3	10.4	6.9	9.3	5.1
20	---	---	5.3	.7	7.5	.9	8.8	3.8	9.9	5.7	9.0	1.5
21	---	---	4.8	.4	7.9	1.1	8.8	4.1	11.1	6.2	6.7	1.2
22	---	---	6.1	.7	7.9	1.3	10.0	3.7	9.5	6.2	7.2	.2
23	---	---	2.2	.0	5.9	1.4	7.7	3.7	9.4	6.3	6.5	1.2
24	---	---	5.3	.0	7.4	1.4	9.3	3.6	11.4	6.2	5.0	2.4
25	---	---	3.8	.0	8.3	1.4	10.4	3.7	10.0	6.2	8.4	.6
26	---	---	5.8	.0	8.7	1.9	11.2	3.8	11.9	5.6	8.0	1.5
27	---	---	5.7	.4	9.3	2.3	11.5	4.3	9.7	6.3	9.5	3.1
28	---	---	5.2	.0	6.2	3.1	11.7	4.0	9.9	5.8	6.9	3.1
29	---	---	5.8	.5	4.3	2.6	10.0	4.8	13.7	5.8	7.9	3.7
30	---	---	3.6	.7	5.8	2.4	10.0	5.0	12.3	5.5	7.3	2.9
31	---	---	7.0	.8	---	---	11.5	4.4	13.3	5.5	---	---
MONTH	---	---	---	---	9.3	.0	---	---	---	---	---	---

06714600 SOUTH CLEAR CREEK ABOVE LEAVENWORTH CREEK NEAR GEORGETOWN, CO

LOCATION.--Lat 39°41'43", long 105°41'56", in NE¹/4SW¹/4 sec.20, T.4 S., R.74 W., Clear Creek County, Hydrologic Unit 10190004, on right bank 240 ft upstream from the confluence of Leavenworth Creek, and 3.1 mi south of Georgetown.

DRAINAGE AREA.--16.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to September 1995.

GAGE.--Water-stage recorder. Elevation of gage is 9,280 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 30, and Sept. 1, 2. Records fair except for estimated daily discharges, which are poor. Flow is entirely regulated by Lower Cabin Creek reservoir.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	7.8	4.2	4.0	4.0	3.8	10	5.3	12	95	48	22
2	4.6	8.2	4.1	4.0	4.0	5.5	9.9	5.3	13	75	54	18
3	4.7	7.6	4.0	4.0	4.0	13	9.5	5.1	13	93	44	16
4	6.3	6.8	4.0	4.0	4.0	13	9.2	5.0	14	97	43	15
5	9.3	7.0	4.0	4.1	4.0	13	8.8	5.1	15	76	44	15
6	13	7.4	4.0	4.1	4.0	14	8.0	5.0	16	74	48	15
7	12	8.0	4.1	4.1	3.9	13	7.7	4.9	17	39	46	15
8	12	7.2	4.0	4.0	3.9	13	7.6	4.9	17	57	41	20
9	12	6.0	4.0	4.0	3.9	13	7.4	5.5	18	77	40	22
10	9.2	6.2	4.0	4.0	3.9	13	7.3	6.0	26	103	38	23
11	7.9	6.4	4.1	4.0	3.9	13	7.1	6.3	48	116	44	26
12	7.8	6.8	4.2	4.0	3.9	13	7.0	6.6	44	84	32	23
13	7.3	6.2	4.1	4.0	3.8	12	6.9	6.7	37	141	20	26
14	6.7	7.8	4.1	4.1	3.8	12	6.7	6.9	57	86	23	31
15	5.8	5.0	4.0	3.9	3.8	12	6.5	7.3	75	108	26	26
16	5.6	5.2	4.0	3.8	3.8	12	6.5	8.1	93	112	31	19
17	5.9	5.4	4.0	3.7	3.8	12	6.4	8.7	120	82	40	16
18	6.0	5.0	4.0	3.7	3.8	11	6.3	8.8	83	104	41	16
19	5.7	4.8	4.0	3.8	3.8	11	6.3	9.1	78	96	42	16
20	5.7	4.8	4.0	3.7	3.8	11	6.2	9.4	92	69	40	16
21	5.6	5.2	4.0	3.7	3.8	11	6.1	10	101	72	28	16
22	5.7	5.0	4.0	3.6	3.8	11	5.9	11	111	77	27	16
23	5.6	5.4	4.2	3.7	3.8	12	5.8	11	135	75	24	16
24	5.7	6.0	5.2	3.7	3.9	12	5.7	11	147	66	22	16
25	5.6	6.4	5.4	3.7	3.9	12	5.7	11	126	59	21	16
26	5.8	5.8	5.5	3.7	3.8	12	5.6	11	113	58	22	16
27	6.8	5.2	5.8	3.8	3.8	12	5.5	11	125	49	26	17
28	9.5	4.6	4.5	3.8	3.8	12	5.5	11	135	44	29	16
29	9.4	4.2	4.2	3.8	---	12	5.7	11	120	42	31	16
30	8.6	4.8	4.1	3.8	---	11	5.5	12	116	40	28	16
31	7.4	---	4.1	3.8	---	11	---	12	---	38	24	---
TOTAL	227.9	182.2	131.9	120.1	108.4	361.3	208.3	252.0	2117	2404	1067	557
MEAN	7.35	6.07	4.25	3.87	3.87	11.7	6.94	8.13	70.6	77.5	34.4	18.6
MAX	13	8.2	5.8	4.1	4.0	14	10	12	147	141	54	31
MIN	4.6	4.2	4.0	3.6	3.8	3.8	5.5	4.9	12	38	20	15
AC-FT	452	361	262	238	215	717	413	500	4200	4770	2120	1100

SUMMARY STATISTICS

FOR 1995 WATER YEAR

ANNUAL TOTAL	7737.1
ANNUAL MEAN	21.2
HIGHEST DAILY MEAN	147 Jun 24
LOWEST DAILY MEAN	3.6 Jan 22
ANNUAL SEVEN-DAY MINIMUM	3.7 Jan 20
INSTANTANEOUS PEAK FLOW	215 Jun 23
INSTANTANEOUS PEAK STAGE	^a 5.96 Jun 23
ANNUAL RUNOFF (AC-FT)	15350
10 PERCENT EXCEEDS	70
50 PERCENT EXCEEDS	8.0
90 PERCENT EXCEEDS	3.9

a-Maximum gage height, 6.78 ft, Jun 17, backwater from debris.

06714600 SOUTH CLEAR CREEK ABOVE LEAVENWORTH CREEK NEAR GEORGETOWN, CO--Continued

TEMPERATURE, WATER (DEG. C) WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
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	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	6.8	3.3	7.0	6.3	11.1	9.2	---	---
2	---	---	---	---	7.0	3.4	7.0	6.3	11.3	9.9	---	---
3	---	---	---	---	7.1	3.4	6.8	6.4	11.2	10.0	12.3	10.3
4	---	---	---	---	7.0	3.7	6.9	6.2	11.1	9.8	12.3	10.1
5	---	---	---	---	8.0	3.7	7.5	6.2	11.1	9.7	12.1	10.1
6	---	---	---	---	7.9	3.7	8.2	6.7	11.5	10.1	11.9	10.2
7	---	---	---	---	6.1	3.8	---	---	11.6	10.3	11.1	10.0
8	---	---	---	---	5.0	3.9	---	---	11.7	10.3	11.6	10.0
9	---	---	5.1	2.6	6.0	2.3	---	---	11.4	10.3	11.8	10.2
10	---	---	6.7	2.3	6.7	3.5	---	---	11.5	10.0	12.0	10.4
11	---	---	6.0	2.8	6.0	3.7	---	---	12.2	10.7	11.6	10.1
12	---	---	7.1	2.1	6.9	4.5	---	---	11.7	10.4	11.7	9.8
13	---	---	6.9	1.8	7.5	4.7	---	---	12.0	9.9	11.8	10.0
14	---	---	7.8	2.7	7.5	5.4	---	---	11.7	9.9	11.5	10.3
15	---	---	8.2	2.9	7.6	6.1	---	---	12.0	9.9	11.7	10.0
16	---	---	6.3	2.2	7.3	5.8	---	---	12.3	10.4	11.5	9.7
17	---	---	2.8	.3	6.7	5.1	---	---	12.0	11.1	11.5	9.5
18	---	---	6.0	2.4	6.5	4.4	---	---	12.5	11.1	11.1	9.4
19	---	---	6.4	2.7	---	---	9.7	8.3	12.2	11.3	10.9	9.3
20	---	---	6.6	2.6	---	---	9.4	8.1	12.0	11.1	10.7	7.2
21	---	---	6.7	2.7	8.2	6.5	9.6	8.0	12.2	10.8	8.8	7.5
22	---	---	7.4	2.9	7.9	6.4	9.8	8.3	11.8	10.8	9.6	7.4
23	---	---	3.9	1.4	7.0	6.3	9.6	8.5	11.4	10.7	9.3	7.8
24	---	---	5.4	1.6	6.9	6.1	9.8	8.6	11.8	10.6	8.6	7.6
25	---	---	5.5	2.4	6.8	6.0	10.1	8.4	11.9	10.5	9.6	7.3
26	---	---	6.9	2.4	7.3	6.2	10.5	8.8	12.4	10.3	9.4	7.3
27	---	---	6.1	3.0	7.4	6.6	10.4	8.7	12.5	10.8	9.5	7.8
28	---	---	5.3	1.9	7.0	6.6	10.8	8.8	12.0	10.9	8.9	7.7
29	---	---	5.7	2.7	6.8	6.4	10.5	9.0	12.5	10.9	9.1	7.6
30	---	---	5.2	3.1	6.8	6.3	10.8	9.1	12.3	10.9	8.9	7.2
31	---	---	7.4	3.4	---	---	10.9	8.8	12.6	10.7	---	---
MONTH	---	---	---	---	---	---	---	---	12.6	9.2	12.6	7.2

PLATTE RIVER BASIN

06714600 SOUTH CLEAR CREEK ABOVE LEAVENWORTH CREEK NEAR GEORGETOWN, CO--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--May to September 1995.

GAGE.--Tipping bucket rain gage (no wind vanes used) with satellite telemetry. Elevation of gage is 9,280 ft above sea level, from topographic map.

REMARKS.--Records poor. Data not published for periods of missing record.

ESTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 0.74 in., May 26, 1995.

ESTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 0.74 in., May 26, 1995.

PRECIPITATION INCHES, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.00	.41	.18	---
2	---	---	---	---	---	---	---	---	.20	.11	.00	---
3	---	---	---	---	---	---	---	---	.00	.12	.14	.00
4	---	---	---	---	---	---	---	---	.02	.06	.01	.01
5	---	---	---	---	---	---	---	---	.00	.00	.00	.03
6	---	---	---	---	---	---	---	---	.00	.00	.00	.00
7	---	---	---	---	---	---	---	---	.11	.00	.00	.37
8	---	---	---	---	---	---	---	---	.04	---	.00	.04
9	---	---	---	---	---	---	---	.08	.38	.00	.00	.05
10	---	---	---	---	---	---	---	.08	.00	.01	.01	.00
11	---	---	---	---	---	---	---	.11	.00	---	.00	.12
12	---	---	---	---	---	---	---	.01	.00	.00	.15	.01
13	---	---	---	---	---	---	---	.00	.00	.15	.00	.00
14	---	---	---	---	---	---	---	.00	.00	.16	.09	.00
15	---	---	---	---	---	---	---	.00	.02	.00	.00	.00
16	---	---	---	---	---	---	---	.28	.00	.06	.00	.00
17	---	---	---	---	---	---	---	.01	---	.25	.04	.00
18	---	---	---	---	---	---	---	.67	.00	---	.02	.13
19	---	---	---	---	---	---	---	.24	.00	---	.01	.01
20	---	---	---	---	---	---	---	.01	.00	---	.13	.05
21	---	---	---	---	---	---	---	.03	.00	---	.07	.00
22	---	---	---	---	---	---	---	.03	.00	---	.01	.02
23	---	---	---	---	---	---	---	.02	.03	---	.12	.24
24	---	---	---	---	---	---	---	.00	.00	---	.00	.09
25	---	---	---	---	---	---	---	.42	.01	---	.08	.19
26	---	---	---	---	---	---	---	.74	.00	---	.00	.00
27	---	---	---	---	---	---	---	.27	.00	---	.00	.00
28	---	---	---	---	---	---	---	.01	.09	---	.23	.00
29	---	---	---	---	---	---	---	.73	.29	---	.01	.08
30	---	---	---	---	---	---	---	.48	.20	---	.09	.00
31	---	---	---	---	---	---	---	.03	---	---	.00	---
TOTAL	---	---	---	---	---	---	---	---	---	---	1.39	---

06714800 LEAVENWORTH CREEK AT MOUTH NEAR GEORGETOWN, CO

LOCATION.--Lat 39°41'14", long 105°41'59", in NE¹/4SW¹/4 sec.20, T.4 S., R.74 W., Clear Creek County, Hydrologic Unit 10190004, on left bank 400 ft upstream from confluence of South Clear Creek, 0.3 mi south of Georgetown Reservoir, and 1.3 mi south of Georgetown.

DRAINAGE AREA.--12.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to September 1995.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,320 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 11-13, 15, 16, Oct. 18 to Apr. 11, and Apr. 15, 16, 19-22, 23-27. Records fair except those for estimated daily discharges, which are poor. Vidler tunnel (transmountain diversion) imports water from Peru Creek. There is seasonal diversion into Green Lake.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	4.7	2.6	1.8	1.6	1.3	1.5	1.7	12	92	41	16
2	6.7	4.2	2.3	1.8	1.5	1.3	1.5	1.9	16	86	37	15
3	6.5	4.2	2.3	1.7	1.4	1.4	1.4	1.9	19	82	35	15
4	8.1	4.0	2.3	1.7	1.4	1.4	1.4	1.8	20	77	35	14
5	7.4	3.5	2.3	1.7	1.4	1.5	1.5	1.9	26	74	33	12
6	7.0	3.6	2.3	1.7	1.4	1.5	1.6	1.7	31	79	31	12
7	6.8	3.6	2.3	1.7	1.4	1.3	1.6	1.7	32	86	30	12
8	6.8	3.6	2.4	1.7	1.4	1.4	1.7	1.6	30	90	31	13
9	6.6	3.5	2.2	1.7	1.5	1.4	2.0	1.6	26	98	30	13
10	6.3	3.5	2.2	1.7	1.4	1.3	1.7	1.7	24	105	29	12
11	6.2	3.6	2.2	1.7	1.3	1.4	1.5	2.0	28	96	29	12
12	6.0	3.6	2.2	1.7	1.2	1.5	1.6	2.2	36	111	28	11
13	5.8	3.5	2.2	1.7	1.3	1.2	1.8	2.3	46	104	28	11
14	5.6	3.0	2.2	1.6	1.3	1.3	1.8	3.1	63	102	28	10
15	5.6	3.3	2.2	1.6	1.3	1.4	1.6	5.4	88	97	25	9.6
16	5.4	3.1	2.2	1.6	1.3	1.5	1.8	6.9	104	100	23	9.3
17	5.3	3.1	2.2	1.5	1.3	1.6	2.0	7.4	112	101	22	9.1
18	5.3	3.1	2.2	1.5	1.3	1.5	1.6	5.3	115	109	22	9.9
19	5.2	3.2	2.2	1.5	1.3	1.4	1.8	5.2	116	87	21	9.5
20	5.2	3.0	1.9	1.5	1.3	1.3	1.6	5.6	118	90	20	9.6
21	5.3	3.0	1.9	1.5	1.3	1.3	1.5	6.3	125	90	21	10
22	5.2	2.9	1.9	1.5	1.3	1.6	1.4	8.8	122	85	23	9.4
23	5.0	2.8	1.9	1.5	1.3	1.4	1.3	10	108	75	22	9.1
24	4.8	3.0	1.7	1.5	1.3	1.6	1.5	9.3	104	61	21	9.0
25	4.7	2.8	1.8	1.5	1.3	1.3	1.5	8.5	101	56	20	9.1
26	4.6	2.7	1.8	1.7	1.3	1.5	1.6	8.0	102	54	20	9.2
27	4.7	2.6	1.8	1.6	1.3	1.4	1.6	8.3	108	52	19	9.0
28	4.9	2.6	1.7	1.6	1.3	1.5	1.5	8.7	107	49	20	8.7
29	4.5	2.6	1.7	1.6	---	1.4	1.8	8.8	100	48	19	8.9
30	4.8	2.6	1.7	1.5	---	1.6	1.7	9.0	93	50	17	8.5
31	4.3	---	1.8	1.5	---	1.4	---	9.5	---	48	16	---
TOTAL	177.5	98.5	64.6	50.1	37.7	43.9	48.4	158.1	2132	2534	796	325.9
MEAN	5.73	3.28	2.08	1.62	1.35	1.42	1.61	5.10	71.1	81.7	25.7	10.9
MAX	8.1	4.7	2.6	1.8	1.6	1.6	2.0	10	125	111	41	16
MIN	4.3	2.6	1.7	1.5	1.2	1.2	1.3	1.6	12	48	16	8.5
AC-FT	352	195	128	99	75	87	96	314	4230	5030	1580	646

SUMMARY STATISTICS

FOR 1995 WATER YEAR

ANNUAL TOTAL	6466.7	
ANNUAL MEAN	17.7	
HIGHEST ANNUAL MEAN		
LOWEST ANNUAL MEAN		
HIGHEST DAILY MEAN	125	Jun 21
LOWEST DAILY MEAN	a 1.2	Feb 12
ANNUAL SEVEN-DAY MINIMUM	1.3	Feb 11
INSTANTANEOUS PEAK FLOW	168	Jul 12
INSTANTANEOUS PEAK STAGE	b 4.79	Jul 12
ANNUAL RUNOFF (AC-FT)	12830	
10 PERCENT EXCEEDS	78	
50 PERCENT EXCEEDS	3.5	
90 PERCENT EXCEEDS	1.4	

a-Also occurred Mar 13.

b-Maximum gage height, 5.69 ft, Jun 17.

06714800 LEAVENWORTH CREEK AT MOUTH NEAR GEORGETOWN, CO--Continued
 TEMPERATURE, WATER (DEG. C) WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
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	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	6	1	5	2	11	3	---	---
2	---	---	---	---	5	1	5	2	10	4	---	---
3	---	---	---	---	5	1	5	2	9	4	---	---
4	---	---	---	---	5	1	5	2	9	5	---	---
5	---	---	---	---	5	1	8	2	10	4	---	---
6	---	---	---	---	5	.0	8	2	10	4	---	---
7	---	---	---	---	4	1	8	2	10	5	---	---
8	---	---	---	---	2	1	7	3	15	6	8	6
9	---	---	---	---	---	---	8	3	10	5	8	5
10	---	---	---	---	5	.0	7	3	11	5	8	5
11	---	---	4	.0	7	.0	---	---	12	7	7	5
12	---	---	5	.0	6	1	9	3	11	6	7	3
13	---	---	5	.0	5	1	7	3	11	7	8	4
14	---	---	6	.0	5	1	7	3	9	6	7	4
15	---	---	6	.0	4	1	7	3	11	5	8	4
16	---	---	4	.0	4	1	8	3	10	5	7	4
17	---	---	---	---	3	1	8	4	10	6	7	4
18	---	---	---	---	4	1	6	4	12	6	7	5
19	---	---	5	.0	5	1	8	4	10	7	7	5
20	---	---	5	.0	5	1	7	3	10	6	6	1
21	---	---	6	.0	5	1	8	4	10	6	2	.0
22	---	---	6	.0	5	1	9	3	9	7	2	.0
23	---	---	2	.0	4	1	7	3	9	7	3	1
24	---	---	3	.0	5	1	8	3	10	7	3	1
25	---	---	3	.0	5	1	9	3	10	7	4	.0
26	---	---	5	.0	6	1	10	3	11	6	4	1
27	---	---	4	1	6	2	10	4	9	7	6	2
28	---	---	3	.0	4	2	10	4	9	6	5	3
29	---	---	4	.0	3	2	9	5	11	6	5	3
30	---	---	3	1	4	2	9	5	10	6	4	2
31	---	---	6	1	---	---	10	4	11	6	---	---
MONTH	---	---	---	---	---	---	---	---	15.0	3.0	---	---

PLATTE RIVER BASIN

06714800 LEAVENWORTH CREEK AT MOUTH NEAR GEORGETOWN, CO--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--May to September 1995.

GAGE.--Tipping bucket rain gage with satellite telemetry. Elevation of gage is 9,320 ft above sea level, from topographic map.

REMARKS.--Records poor. Data not published for periods of missing record.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 0.77 in., May 29, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 0.77 in., May 29, 1995.

PRECIPITATION INCHES, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.00	.42	.00	---
2	---	---	---	---	---	---	---	---	.21	.13	.00	---
3	---	---	---	---	---	---	---	---	.00	.12	.13	.01
4	---	---	---	---	---	---	---	---	.02	.07	.01	.01
5	---	---	---	---	---	---	---	---	.00	.01	.00	.03
6	---	---	---	---	---	---	---	---	.00	.00	.00	.00
7	---	---	---	---	---	---	---	---	.11	.00	.00	.35
8	---	---	---	---	---	---	---	---	.04	.00	.00	.06
9	---	---	---	---	---	---	---	.05	---	.00	.00	.06
10	---	---	---	---	---	---	---	.12	.01	.01	.01	.00
11	---	---	---	---	---	---	---	.11	.00	---	.00	.20
12	---	---	---	---	---	---	---	.01	.00	.00	.15	.00
13	---	---	---	---	---	---	---	.00	.00	.20	.01	.00
14	---	---	---	---	---	---	---	.02	.00	.12	.10	.00
15	---	---	---	---	---	---	---	.00	.02	.01	.00	.00
16	---	---	---	---	---	---	---	.29	.00	.05	.00	.00
17	---	---	---	---	---	---	---	.00	.34	.23	.04	.00
18	---	---	---	---	---	---	---	---	.01	.13	.02	.17
19	---	---	---	---	---	---	---	.42	.00	.00	.01	.01
20	---	---	---	---	---	---	---	.03	.00	.04	.11	.08
21	---	---	---	---	---	---	---	.03	.00	.01	.08	.01
22	---	---	---	---	---	---	---	.03	.00	.04	.01	.39
23	---	---	---	---	---	---	---	.02	.03	.00	.13	.19
24	---	---	---	---	---	---	---	.44	.01	.00	.00	.05
25	---	---	---	---	---	---	---	.60	.01	.01	.08	.00
26	---	---	---	---	---	---	---	.38	.00	.00	.00	.00
27	---	---	---	---	---	---	---	.27	.00	.00	.00	.00
28	---	---	---	---	---	---	---	.01	.09	.00	.21	.00
29	---	---	---	---	---	---	---	.77	.31	.00	.01	.09
30	---	---	---	---	---	---	---	.52	.19	.11	.08	.01
31	---	---	---	---	---	---	---	.03	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	---	---	---	1.19	---

06715000 CLEAR CREEK ABOVE WEST FORK CLEAR CREEK NEAR EMPIRE, CO

LOCATION.--Lat 39°45'07", long 105°39'41", in NE¹/4NW¹/4 sec.34, T.3 S., R.74 W., Clear Creek County, Hydrologic Unit 10190004, on left bank, 1.1 mi west of exit 232 on I-70, and 2.1 mi west of Lawson.

DRAINAGE AREA.--86.1 mi².

PERIOD OF RECORD.--October 1994 to September 1995.

GAGE.--Water-stage recorder. Elevation of gage is 8,280 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 15 to Feb. 15, and Mar. 3-12. Records fair except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	28	16	14	13	16	20	20	87	556	302	106
2	30	22	16	14	13	17	20	22	114	484	291	98
3	29	22	16	13	13	17	20	23	139	510	272	94
4	33	19	16	13	13	18	20	21	152	481	273	90
5	36	19	16	13	13	18	21	23	177	423	263	88
6	37	20	16	13	13	18	20	23	218	452	255	86
7	36	20	16	13	13	19	20	23	231	506	245	85
8	35	20	16	13	14	19	23	22	229	591	240	93
9	35	19	16	13	14	20	24	21	204	700	236	93
10	33	19	16	13	14	20	20	21	176	791	221	90
11	31	20	16	13	14	21	19	26	204	860	231	92
12	30	20	16	13	14	22	20	29	246	814	221	89
13	29	19	16	13	14	22	20	24	306	848	210	82
14	28	15	16	12	14	22	22	27	407	773	199	84
15	26	19	16	12	14	24	18	40	565	719	185	78
16	25	20	16	11	15	25	20	53	655	702	176	69
17	27	20	16	12	15	26	21	62	782	669	177	62
18	24	20	16	12	15	24	19	53	840	731	173	66
19	27	20	16	12	15	24	21	56	703	637	172	67
20	23	20	15	12	15	22	19	60	760	566	167	66
21	25	20	15	13	16	21	20	61	822	521	157	73
22	23	19	15	13	17	24	19	74	886	494	179	64
23	24	19	15	13	17	21	18	87	857	464	164	63
24	22	19	15	13	18	24	19	84	795	419	155	62
25	22	18	15	13	18	21	18	84	732	396	147	58
26	22	18	14	13	17	22	19	77	729	392	142	60
27	23	17	14	13	17	21	19	75	815	365	136	60
28	26	17	14	13	17	21	21	73	799	346	136	60
29	23	16	14	13	---	21	22	76	709	340	136	64
30	27	16	14	13	---	22	23	85	579	332	125	60
31	22	---	14	13	---	20	---	82	---	322	114	---
TOTAL	864	580	478	397	415	652	605	1507	14918	17204	6100	2302
MEAN	27.9	19.3	15.4	12.8	14.8	21.0	20.2	48.6	497	555	197	76.7
MAX	37	28	16	14	18	26	24	87	886	860	302	106
MIN	22	15	14	11	13	16	18	20	87	322	114	58
AC-FT	1710	1150	948	787	823	1290	1200	2990	29590	34120	12100	4570

SUMMARY STATISTICS

FOR 1995 WATER YEAR

ANNUAL TOTAL	46022
ANNUAL MEAN	126
HIGHEST ANNUAL MEAN	
LOWEST ANNUAL MEAN	
HIGHEST DAILY MEAN	886 Jun 22
LOWEST DAILY MEAN	11 Jan 16
ANNUAL SEVEN-DAY MINIMUM	12 Jan 14
INSTANTANEOUS PEAK FLOW	1030 Jun 17
INSTANTANEOUS PEAK STAGE	6.63 Jun 17
ANNUAL RUNOFF (AC-FT)	91280
10 PERCENT EXCEEDS	471
50 PERCENT EXCEEDS	23
90 PERCENT EXCEEDS	14

06716100 WEST FORK CLEAR CREEK ABOVE MOUTH NEAR EMPIRE, CO

LOCATION.--Lat 39°45'32", long 105°39'34", in NE¹/4SW¹/4 sec.27, T.3 S., R.74 W., Clear Creek County, Hydrologic Unit 10190004, on left bank, 60 ft downstream from frontage road bridge and 1.2 mi east of Empire.

DRAINAGE AREA.--57.6 mi².

PERIOD OF RECORD.--October 1994 to September 1995.

GAGE.--Water-stage recorder. Elevation of gage is 8,235 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 19, 20, Nov. 15 to Feb. 22, Mar. 1, 2, 6, 7, Mar. 29 to Apr. 2, and Aug. 29, 30. Records fair except those for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report. Natural flow of stream affected by transbasin diversions.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	18	12	10	10	11	12	18	117	395	229	70
2	28	18	12	10	10	11	13	19	134	388	217	68
3	27	18	12	10	10	11	13	19	148	378	207	66
4	27	17	11	10	10	11	13	19	171	375	201	65
5	25	17	11	10	10	11	14	20	206	346	196	63
6	25	18	11	10	11	12	14	21	235	350	190	60
7	25	18	11	10	11	13	14	21	253	385	187	61
8	24	18	11	10	11	12	15	21	256	434	182	64
9	24	17	11	10	11	12	16	21	229	478	178	61
10	23	18	10	10	11	12	15	21	207	517	172	58
11	23	18	10	10	11	12	16	23	191	559	167	65
12	22	18	10	10	11	12	16	23	215	615	164	63
13	21	17	10	10	11	12	16	23	271	612	158	61
14	21	17	10	10	11	12	16	25	355	591	153	59
15	21	16	10	10	11	13	15	32	426	525	140	58
16	22	16	10	9.5	11	14	15	40	469	485	127	56
17	22	16	10	9.5	11	15	17	51	557	465	121	54
18	21	16	10	9.5	11	14	16	51	720	472	111	57
19	21	15	10	9.5	11	14	16	53	661	406	115	55
20	20	15	10	9.5	12	13	15	58	682	361	115	58
21	20	15	10	10	12	14	15	63	694	355	113	57
22	20	14	10	10	12	15	15	72	664	340	121	44
23	20	14	10	10	12	14	15	80	593	320	109	41
24	20	14	10	10	12	14	15	77	507	296	104	41
25	19	14	10	10	12	13	15	78	471	285	106	39
26	19	13	10	10	12	13	16	76	480	276	102	39
27	19	13	10	10	12	14	16	76	486	259	99	38
28	19	13	10	10	12	14	17	77	474	249	95	38
29	19	13	10	10	---	13	18	82	441	248	89	41
30	19	13	10	10	---	13	19	97	411	244	79	40
31	18	---	10	10	---	13	---	106	---	242	73	---
TOTAL	683	477	322	307.5	312	397	458	1463	11724	12251	4420	1640
MEAN	22.0	15.9	10.4	9.92	11.1	12.8	15.3	47.2	391	395	143	54.7
MAX	29	18	12	10	12	15	19	106	720	615	229	70
MIN	18	13	10	9.5	10	11	12	18	117	242	73	38
AC-FT	1350	946	639	610	619	787	908	2900	23250	24300	8770	3250

SUMMARY STATISTICS

FOR 1995 WATER YEAR

ANNUAL TOTAL	34454.5
ANNUAL MEAN	94.4
HIGHEST ANNUAL MEAN	
LOWEST ANNUAL MEAN	
HIGHEST DAILY MEAN	720 Jun 18
LOWEST DAILY MEAN	^a 9.5 Jan 16
ANNUAL SEVEN-DAY MINIMUM	9.6 Jan 14
INSTANTANEOUS PEAK FLOW	^b 774 Jun 18
INSTANTANEOUS PEAK STAGE	6.67 Jun 18
ANNUAL RUNOFF (AC-FT)	68340
10 PERCENT EXCEEDS	352
50 PERCENT EXCEEDS	19
90 PERCENT EXCEEDS	10

a-Also occurred Jan 17-20.
b-Also occurred Jun 20.

06716500 CLEAR CREEK NEAR LAWSON, CO

LOCATION.--Lat 39°45'57", long 105°37'32", in NW¹/4NW¹/4 sec.25, T.3 S., R.74 W., Clear Creek County, Hydrologic Unit 10190004, on left bank at east edge of Lawson, 30 ft downstream from private bridge, and 2.0 mi downstream from West Fork Clear Creek.

DRAINAGE AREA.--147 mi².

PERIOD OF RECORD.--March 1946 to September 1986; October 1994 to September 1995. Records prior to 1959 include inflow from August P. Gumlick Tunnel (formerly Jones Pass tunnel).

GAGE.--Water-stage recorder. Elevation of gage is 8,080 ft above sea level, from topographic map. Mar. 29, 1946 to Sept. 30, 1967, at site 1.5 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 16, 22, 23, Nov. 27 to Dec. 2, Dec. 9-23, Jan. 1-10, 17-25, 30, Feb. 11 to Mar. 7, and Aug. 17-30. Records fair except for estimated daily discharges, which are poor. Natural flow affected by minor transmountain diversion from Colorado River basin through Berthoud Pass ditch (see elsewhere in this report). No diversion upstream from station. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	39	27	24	22	21	28	35	174	924	530	210
2	52	34	26	24	22	22	28	37	229	846	506	192
3	50	34	26	23	21	23	27	38	282	867	481	185
4	53	32	26	23	21	24	28	37	316	821	472	174
5	53	31	26	23	21	25	29	38	381	728	460	166
6	53	32	26	23	21	26	29	39	447	762	445	159
7	52	32	26	23	21	26	30	39	481	854	433	155
8	51	32	28	23	21	28	31	38	487	975	422	156
9	51	31	26	23	22	28	33	37	441	1120	417	150
10	50	31	26	23	21	28	30	37	388	1220	398	143
11	47	32	26	23	21	29	27	42	399	1310	401	151
12	45	32	26	23	20	30	30	44	468	1310	392	149
13	44	30	26	23	21	28	30	43	591	1340	379	139
14	44	26	26	22	21	28	31	44	790	1270	367	138
15	42	31	26	22	21	30	29	60	1050	1170	359	133
16	42	30	26	22	21	31	30	81	1140	1130	354	122
17	43	31	26	21	21	33	33	103	1330	1100	350	113
18	40	31	26	21	21	32	31	90	1400	1140	347	117
19	42	33	26	21	21	31	32	94	1250	1070	345	119
20	39	30	25	21	21	29	31	103	1260	957	342	118
21	41	30	25	21	21	29	31	107	1350	887	338	131
22	39	29	25	21	21	32	30	130	1440	837	334	109
23	38	29	25	21	21	29	29	153	1380	778	320	103
24	37	32	24	21	21	32	31	146	1270	714	310	101
25	37	29	25	21	21	28	30	144	1160	685	295	96
26	36	28	25	23	21	30	32	132	1160	674	285	97
27	37	27	25	22	21	28	31	127	1250	639	270	95
28	39	27	24	22	21	29	33	124	1260	600	255	95
29	36	27	24	22	---	28	35	130	1150	596	245	100
30	39	27	24	21	---	29	37	155	994	580	235	97
31	33	---	25	22	---	27	---	158	---	561	230	---
TOTAL	1361	919	793	688	590	873	916	2585	25718	28465	11317	4013
MEAN	43.9	30.6	25.6	22.2	21.1	28.2	30.5	83.4	857	918	365	134
MAX	56	39	28	24	22	33	37	158	1440	1340	530	210
MIN	33	26	24	21	20	21	27	35	174	561	230	95
AC-FT	2700	1820	1570	1360	1170	1730	1820	5130	51010	56460	22450	7960

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1986, BY WATER YEAR (WY)

	60.1	42.9	33.5	28.7	27.4	27.3	42.2	190	595	396	166	87.4
MEAN	60.1	42.9	33.5	28.7	27.4	27.3	42.2	190	595	396	166	87.4
MAX	132	79.9	50.8	41.0	36.8	37.4	89.1	431	1000	943	404	193
(WY)	1962	1985	1985	1971	1970	1971	1962	1958	1952	1957	1984	1984
MIN	35.6	30.2	24.5	18.2	16.8	17.6	26.3	84.0	223	125	69.9	45.6
(WY)	1957	1961	1955	1955	1955	1951	1964	1981	1954	1954	1977	1954

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1946 - 1986

ANNUAL TOTAL	78238	
ANNUAL MEAN	214	142
HIGHEST ANNUAL MEAN		225
LOWEST ANNUAL MEAN		72.3
HIGHEST DAILY MEAN	1440	1660
LOWEST DAILY MEAN	20	13
ANNUAL SEVEN-DAY MINIMUM	21	15
INSTANTANEOUS PEAK FLOW	1580	6130
INSTANTANEOUS PEAK STAGE	7.11	7.41
INSTANTANEOUS LOW FLOW		13
ANNUAL RUNOFF (AC-FT)	155200	102900
10 PERCENT EXCEEDS	802	408
50 PERCENT EXCEEDS	36	50
90 PERCENT EXCEEDS	22	25

a-Site and datum then in use.

06717400 CHICAGO CREEK BELOW DEVILS CANYON, NEAR IDAHO SPRINGS, CO

LOCATION.--Lat 39°42'58", long 105°34'15", in NW¹/4SW¹/4 sec.9, T.4 S., R.73 W., Clear Creek County, Hydrologic Unit 10190004, on left bank 5.6 mi upstream from intersection of I-70 and Colorado Highway 103.

DRAINAGE AREA.--43.7 mi².

PERIOD OF RECORD.--October 1994 to September 1995.

GAGE.--Water-stage recorder. Elevation of gage is 8,040 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1-19, Nov. 1 to Apr. 2, and June 12 to July 7. Records poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	6.4	4.1	4.1	3.9	3.4	4.9	13	98	150	61	18
2	9.9	6.2	4.1	4.1	3.8	3.4	5.3	15	107	140	48	18
3	9.8	6.0	4.1	4.1	3.7	3.4	6.1	15	168	130	36	17
4	9.7	5.8	4.1	4.1	3.7	3.5	6.3	13	172	120	36	17
5	9.6	5.6	4.1	4.1	3.7	3.5	6.6	14	171	110	34	16
6	9.4	5.4	4.1	4.1	3.6	3.5	6.7	16	126	92	33	17
7	9.2	5.2	4.1	4.1	3.6	3.5	7.0	16	111	114	31	18
8	9.0	5.1	4.1	4.1	3.6	3.5	7.4	13	110	112	30	18
9	8.7	5.0	4.1	4.1	3.5	3.5	7.0	12	116	113	29	17
10	8.5	5.0	4.1	4.1	3.6	3.5	6.2	13	111	116	29	17
11	8.3	4.8	4.1	4.2	3.5	3.6	6.8	13	104	115	27	17
12	8.1	4.7	4.1	4.2	3.4	3.6	7.0	16	130	114	27	16
13	7.9	4.5	4.1	4.2	3.4	3.7	6.6	16	170	113	29	15
14	7.6	4.4	4.1	4.2	3.4	3.7	6.2	18	200	117	27	15
15	7.3	4.3	4.1	4.2	3.3	3.8	5.6	24	240	112	26	14
16	7.1	4.1	4.1	4.2	3.2	3.8	5.5	27	250	109	24	14
17	7.0	4.0	4.1	4.2	3.2	3.8	5.8	27	260	109	24	13
18	7.0	4.0	4.1	4.2	3.1	3.8	5.8	32	270	110	25	15
19	6.9	4.0	4.1	4.2	3.2	3.9	6.2	41	275	106	25	14
20	6.6	4.0	4.1	4.2	3.2	3.9	6.1	54	260	104	23	14
21	6.7	4.0	4.1	4.2	3.3	3.9	5.9	59	270	97	25	15
22	6.7	4.0	4.1	4.2	3.3	3.9	5.8	58	250	88	27	15
23	6.7	4.0	4.1	4.2	3.3	4.0	5.7	53	230	84	29	15
24	6.5	4.0	4.1	4.1	3.4	4.1	6.2	47	220	78	26	15
25	6.4	4.0	4.1	4.1	3.4	4.1	6.6	48	210	76	24	14
26	6.4	4.0	4.1	4.0	3.4	4.2	7.4	54	200	72	24	15
27	6.4	4.0	4.1	4.0	3.4	4.3	7.9	72	210	67	22	14
28	6.4	4.0	4.1	4.0	3.4	4.4	10	72	200	60	22	14
29	6.3	4.0	4.1	4.0	---	4.5	11	78	180	58	23	14
30	6.4	4.0	4.1	4.0	---	4.6	14	95	160	58	21	13
31	6.1	---	4.1	4.0	---	4.6	---	101	---	65	20	---
TOTAL	238.6	138.5	127.1	127.8	96.5	118.9	205.6	1145	5579	3109	887	464
MEAN	7.70	4.62	4.10	4.12	3.45	3.84	6.85	36.9	186	100	28.6	15.5
MAX	10	6.4	4.1	4.2	3.9	4.6	14	101	275	150	61	18
MIN	6.1	4.0	4.1	4.0	3.1	3.4	4.9	12	98	58	20	13
AC-FT	473	275	252	253	191	236	408	2270	11070	6170	1760	920

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	12237.0	
ANNUAL MEAN	33.5	
HIGHEST ANNUAL MEAN		33.5
LOWEST ANNUAL MEAN		33.5
HIGHEST DAILY MEAN	275	Jun 19
LOWEST DAILY MEAN	3.1	Feb 18
ANNUAL SEVEN-DAY MINIMUM	3.2	Feb 15
INSTANTANEOUS PEAK FLOW	Not determined	
INSTANTANEOUS PEAK STAGE	Not determined	
ANNUAL RUNOFF (AC-FT)	24270	24290
10 PERCENT EXCEEDS	112	112
50 PERCENT EXCEEDS	6.7	6.7
90 PERCENT EXCEEDS	3.7	3.7

06718300 CLEAR CREEK ABOVE JOHNSON GULCH NEAR IDAHO SPRINGS, CO

LOCATION.--Lat 39°44'47", long 105°26'08", in NE¹/4SW¹/4 sec.34, T.3 S., R.72 W., Clear Creek County, Hydrologic Unit 10190004, on left bank 150 ft downstream from I-70 exit 243 bridge over Clear Creek.

DRAINAGE AREA.--267 mi².

PERIOD OF RECORD.--October 1994 to September 1995.

GAGE.--Water-stage recorder. Elevation of gage is 7,210 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 14-16, Nov. 21 to Feb. 19, June 23 to July 5, and July 11-25. Records fair except for estimated daily discharges which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	64	45	38	31	33	42	73	520	1400	768	225
2	73	49	45	38	31	37	42	76	569	1250	701	215
3	71	53	45	37	31	41	42	80	627	1250	622	209
4	73	48	45	37	30	41	42	77	661	1150	610	212
5	76	46	45	37	30	39	45	76	739	1000	586	220
6	80	51	45	37	30	42	45	84	817	1160	566	214
7	76	51	45	37	29	39	46	83	850	1290	537	214
8	79	50	45	36	29	40	49	79	844	1470	524	228
9	75	49	45	36	29	41	53	75	845	1670	528	221
10	75	47	45	36	29	43	46	72	817	1700	499	211
11	70	49	45	36	28	44	44	81	811	1800	499	216
12	68	52	45	36	28	44	47	84	883	1850	498	214
13	67	48	45	35	28	42	49	87	1020	1900	476	197
14	63	49	45	34	28	42	51	88	1290	1800	454	193
15	63	50	45	33	28	44	46	114	1620	1700	416	187
16	64	52	45	33	27	47	46	155	1780	1650	389	175
17	67	51	44	33	27	51	52	220	1960	1560	378	166
18	64	47	43	33	27	49	51	203	1940	1540	366	173
19	65	52	43	32	27	49	52	258	1740	1550	363	180
20	58	56	43	32	29	44	50	326	1820	1600	367	177
21	61	51	43	32	33	45	51	339	1930	1520	371	198
22	58	49	42	32	33	49	48	356	2080	1420	398	171
23	58	49	42	32	35	43	47	376	2050	1360	370	164
24	55	51	41	32	36	49	49	352	1800	1300	354	162
25	54	48	41	32	36	43	50	364	1600	1260	331	153
26	54	46	41	32	36	45	55	375	1600	1240	321	154
27	55	46	40	32	34	41	54	427	1650	1140	297	150
28	58	45	39	32	34	43	61	426	1750	1030	296	150
29	52	45	39	32	---	42	66	438	1650	988	291	165
30	58	45	39	32	---	43	76	497	1500	919	266	153
31	47	---	40	32	---	40	---	516	---	868	240	---
TOTAL	2014	1489	1340	1058	853	1335	1497	6857	39763	43335	13682	5667
MEAN	65.0	49.6	43.2	34.1	30.5	43.1	49.9	221	1325	1398	441	189
MAX	80	64	45	38	36	51	76	516	2080	1900	768	228
MIN	47	45	39	32	27	33	42	72	520	868	240	150
AC-FT	3990	2950	2660	2100	1690	2650	2970	13600	78870	85950	27140	11240

SUMMARY STATISTICS

FOR 1995 WATER YEAR

ANNUAL TOTAL	118890	
ANNUAL MEAN	326	
HIGHEST ANNUAL MEAN		
LOWEST ANNUAL MEAN		
HIGHEST DAILY MEAN	2080	Jun 22
LOWEST DAILY MEAN	^a 27	Feb 16
ANNUAL SEVEN-DAY MINIMUM	27	Feb 13
INSTANTANEOUS PEAK FLOW	2250	Jun 21
INSTANTANEOUS PEAK STAGE	^b 7.46	Jun 21
ANNUAL RUNOFF (AC-FT)	235800	
10 PERCENT EXCEEDS	1270	
50 PERCENT EXCEEDS	56	
90 PERCENT EXCEEDS	33	

a-Also occurred Feb 17-19.

b-Maximum gage height, 8.23 ft, Jun 17.

06718550 NORTH CLEAR CREEK ABOVE MOUTH NEAR BLACKHAWK, CO

LOCATION.--Lat 39°44'56", long 105°23'57", in NE¹/4SW¹/4 sec.36, T.3 S., R.72 W., Clear Creek County, Hydrologic Unit 10190004, on left bank 150 ft upstream from intersection of Hwy 6 and Hwy 119 bridge over North Clear Creek and 6.5 mi southeast of Blackhawk.

DRAINAGE AREA.--59.4 mi².

PERIOD OF RECORD.--October 1994 to September 1995.

GAGE.--Water-stage recorder. Elevation of gage is 6,910 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 16 to Mar. 24. Records fair except those for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	2.7	2.0	1.3	1.3	1.4	2.8	29	297	103	18	5.8
2	2.5	2.5	2.0	1.3	1.3	1.4	2.9	34	378	93	15	5.6
3	2.3	3.1	2.0	1.3	1.3	1.4	2.8	39	289	90	15	5.8
4	2.3	2.9	2.0	1.3	1.3	1.4	3.3	40	275	82	15	5.4
5	2.6	3.0	2.0	1.3	1.3	1.4	4.0	47	271	74	14	5.4
6	3.1	3.2	2.0	1.3	1.4	1.4	4.0	52	258	71	13	5.9
7	3.2	3.1	2.0	1.3	1.4	1.5	4.5	52	206	69	12	6.2
8	4.3	3.1	2.0	1.3	1.4	1.5	5.4	49	196	65	11	7.4
9	3.8	3.5	1.9	1.3	1.4	1.6	6.3	44	307	64	11	8.0
10	3.4	3.1	1.9	1.3	1.4	1.7	4.8	43	256	66	10	9.0
11	3.2	3.2	1.8	1.3	1.4	1.7	5.8	46	215	62	9.8	7.5
12	3.1	3.6	1.8	1.3	1.4	1.8	4.8	48	239	58	11	6.9
13	2.9	3.3	1.8	1.3	1.4	1.8	5.7	49	287	56	9.2	5.7
14	3.0	3.1	1.7	1.3	1.4	1.9	7.0	53	325	62	9.5	5.3
15	3.0	2.8	1.7	1.3	1.4	2.0	5.9	62	361	53	8.8	5.6
16	3.1	2.6	1.7	1.3	1.4	2.1	5.4	77	344	45	7.9	5.0
17	3.9	2.5	1.6	1.3	1.4	2.2	6.4	108	310	42	7.7	4.9
18	3.3	2.4	1.6	1.2	1.4	2.3	6.7	106	267	43	8.1	5.8
19	3.3	2.4	1.6	1.3	1.4	2.4	7.7	120	227	40	12	5.8
20	3.3	2.4	1.5	1.3	1.4	2.6	6.9	139	201	37	9.1	6.2
21	3.3	2.3	1.5	1.3	1.4	2.7	7.5	144	174	34	11	9.0
22	3.2	2.3	1.5	1.3	1.4	2.8	7.4	137	170	32	11	8.1
23	3.1	2.3	1.5	1.3	1.4	2.9	7.0	134	150	30	9.5	8.2
24	3.0	2.2	1.4	1.3	1.4	3.0	8.1	134	136	27	9.9	8.0
25	2.8	2.2	1.4	1.3	1.4	3.1	10	138	123	25	8.4	7.4
26	2.8	2.2	1.4	1.3	1.4	3.1	12	150	118	22	7.9	7.4
27	2.9	2.1	1.4	1.3	1.4	3.0	11	198	110	20	7.4	7.1
28	3.1	2.1	1.4	1.3	1.4	2.6	15	218	127	19	7.5	6.9
29	3.1	2.1	1.4	1.3	---	2.6	20	227	118	18	7.4	7.1
30	3.3	2.1	1.4	1.3	---	3.4	27	352	110	20	6.5	6.8
31	2.7	---	1.3	1.3	---	3.7	---	415	---	20	6.2	---
TOTAL	95.6	80.4	52.2	40.2	38.7	68.4	228.1	3484	6845	1542	319.8	199.2
MEAN	3.08	2.68	1.68	1.30	1.38	2.21	7.60	112	228	49.7	10.3	6.64
MAX	4.3	3.6	2.0	1.3	1.4	3.7	27	415	378	103	18	9.0
MIN	2.3	2.1	1.3	1.2	1.3	1.4	2.8	29	110	18	6.2	4.9
AC-FT	190	159	104	80	77	136	452	6910	13580	3060	634	395

SUMMARY STATISTICS

FOR 1995 WATER YEAR

ANNUAL TOTAL	12993.6
ANNUAL MEAN	35.6
HIGHEST ANNUAL MEAN	
LOWEST ANNUAL MEAN	
HIGHEST DAILY MEAN	415
LOWEST DAILY MEAN	1.2
ANNUAL SEVEN-DAY MINIMUM	1.3
INSTANTANEOUS PEAK FLOW	a-759
INSTANTANEOUS PEAK STAGE	5.87
ANNUAL RUNOFF (AC-FT)	25770
10 PERCENT EXCEEDS	130
50 PERCENT EXCEEDS	3.7
90 PERCENT EXCEEDS	1.3

a-From rating curve extended above 300 ft³/s.

394839104570300 SAND CREEK AT MOUTH NEAR COMMERCE CITY, CO

LOCATION.--Lat 39°48'39", long 104°57'03", in SE¹/4NW¹/4NW¹/4 sec.12, T.3 S., R.68 W., Adams County, Hydrologic Unit 10190003, on left bank 0.1 mi downstream from confluence of ditch and Sand Creek in NE corner of Metro Sewer Plant.

DRAINAGE AREA.--191 mi².

PERIOD OF RECORD.--January 1992 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,120 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: May 17 to July 26. Records fair except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	11	11	15	12	12	14	36	73	126	139	114
2	56	12	14	14	11	12	12	43	78	105	147	108
3	26	15	11	14	11	11	11	72	218	110	141	109
4	22	22	12	14	10	11	9.4	49	146	113	130	121
5	27	14	13	15	10	13	28	39	143	163	120	121
6	34	11	13	14	11	35	40	38	73	155	112	115
7	29	11	13	17	12	25	37	58	74	155	106	132
8	27	18	13	16	12	21	22	278	181	160	110	140
9	24	21	13	15	11	17	28	75	546	163	112	217
10	22	18	14	12	13	15	49	54	93	155	130	166
11	20	15	13	10	12	12	41	50	102	155	158	145
12	19	12	14	12	11	11	27	49	87	155	154	145
13	19	12	15	13	13	11	23	51	72	159	139	148
14	16	52	14	12	47	11	17	48	55	226	135	144
15	17	36	14	12	36	9.9	19	48	55	239	134	112
16	20	24	15	12	23	14	13	51	50	253	151	94
17	78	21	13	11	20	11	13	786	114	259	173	100
18	79	15	13	10	16	11	21	236	169	170	161	101
19	47	14	13	11	14	11	64	62	105	225	224	115
20	15	15	13	12	14	11	28	55	106	247	85	126
21	13	15	13	10	12	9.6	35	50	105	173	88	174
22	16	13	13	9.8	11	7.2	26	50	108	167	105	135
23	11	14	13	10	11	7.4	20	50	107	169	83	120
24	11	13	13	11	13	9.7	34	50	147	170	80	100
25	11	13	13	11	12	9.9	26	90	111	158	95	103
26	11	12	14	12	8.7	14	144	110	105	155	90	116
27	11	14	14	11	6.8	11	51	593	105	185	106	117
28	11	14	14	12	16	17	32	291	208	168	113	117
29	12	15	14	18	---	18	77	218	439	178	111	131
30	11	13	13	18	---	18	100	95	138	157	112	188
31	11	---	14	15	---	16	---	74	---	152	112	---
TOTAL	806	505	412	398.8	409.5	422.7	1061.4	3849	4113	5325	3856	3874
MEAN	26.0	16.8	13.3	12.9	14.6	13.6	35.4	124	137	172	124	129
MAX	80	52	15	18	47	35	144	786	546	259	224	217
MIN	11	11	11	9.8	6.8	7.2	9.4	36	50	105	80	94
AC-FT	1600	1000	817	791	812	838	2110	7630	8160	10560	7650	7680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	24.8	19.8	15.4	14.4	17.8	30.5	40.1	84.9	83.6	103	86.2	53.5
MAX	30.6	23.5	17.4	15.2	21.7	71.8	56.0	124	137	172	124	129
(WY)	1994	1994	1993	1993	1993	1992	1994	1995	1995	1995	1995	1995
MIN	17.8	16.8	13.3	12.9	14.6	13.6	31.1	46.1	56.3	68.0	53.6	16.9
(WY)	1993	1995	1995	1995	1995	1995	1993	1993	1992	1994	1993	1992

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1992 - 1995
ANNUAL TOTAL	14844	25032.4	
ANNUAL MEAN	40.7	68.6	48.6
HIGHEST ANNUAL MEAN			68.6
LOWEST ANNUAL MEAN			35.5
HIGHEST DAILY MEAN	250	Aug 11	786
LOWEST DAILY MEAN	10	Mar 22	6.8
ANNUAL SEVEN-DAY MINIMUM	11	Oct 23	9.4
INSTANTANEOUS PEAK FLOW			Not Determined
INSTANTANEOUS PEAK STAGE			a 10.02
ANNUAL RUNOFF (AC-FT)	29440	49650	b 8.28
10 PERCENT EXCEEDS	89	159	110
50 PERCENT EXCEEDS	24	27	28
90 PERCENT EXCEEDS	13	11	13

a-Backwater from South Platte River.

b-Maximum gage height, 10.41 ft, Aug 24, 1992, backwater from South Platte River.

PLATTE RIVER BASIN

06719505 CLEAR CREEK AT GOLDEN, CO

LOCATION.--Lat 39°45'11", long 105°14'05", in NE¹/4NW¹/4 sec.33, T.3 S., R.70 W., Jefferson County, Hydrologic Unit 10190004, on left bank 100 ft downstream from U.S. Highway 6 bridge at west edge of Golden, 0.7 mi downstream from headgate of Church ditch, and 13.3 mi downstream from North Clear Creek.

DRAINAGE AREA.--400 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year. Records for station at site 0.8 mi upstream (October 1908 to December 1909, June 1911 to September 1974) are not equivalent due to diversions by Church ditch. Sediment data available April to September 1981.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,695 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 28-30, Dec. 9-13, 16-19, 22-25, 28-29, Dec. 31 to Jan. 1, Jan. 3 to Feb 3, Feb. 11-21, and June 15-18. Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by minor transmountain diversions from Colorado River basin through Berthoud Pass ditch (see elsewhere in this report) and several small reservoirs upstream from station. Diversion by Welch ditch 1.4 mi upstream from station and by Church Ditch 0.7 mi upstream from station for irrigation of about 5,200 acres downstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	55	56	35	27	25	32	98	644	1400	633	205
2	68	44	45	36	27	26	34	99	689	1290	579	198
3	62	51	39	35	27	39	33	109	823	1290	534	197
4	64	46	40	34	27	33	35	103	848	1220	508	196
5	67	43	43	33	28	30	37	102	929	1060	493	198
6	71	49	41	32	26	32	39	113	990	1060	476	194
7	70	47	40	31	24	28	42	119	1060	1170	451	195
8	72	47	38	30	24	37	43	118	1080	1310	454	215
9	66	46	39	30	23	35	55	107	1180	1440	450	214
10	66	44	39	30	25	33	50	102	1100	1580	419	208
11	62	48	38	30	24	37	41	109	1110	1680	420	194
12	60	48	38	30	24	39	43	110	1100	1620	425	206
13	59	48	38	30	24	34	47	116	1280	1660	401	182
14	59	40	40	30	24	33	51	117	1550	1710	392	175
15	57	25	37	29	24	38	45	143	1900	1530	364	169
16	60	41	38	28	24	39	44	185	2100	1430	332	154
17	63	56	38	27	24	48	55	326	2300	1360	308	146
18	63	43	38	27	25	47	56	338	2050	1440	303	146
19	59	50	38	27	25	45	60	362	2030	1350	309	166
20	54	56	40	27	26	40	49	395	2090	1240	309	163
21	54	50	38	27	27	40	54	402	2120	1150	312	217
22	54	56	39	27	29	43	51	402	2120	1080	328	210
23	52	49	39	27	29	37	48	409	2020	1020	310	204
24	51	54	39	27	28	38	55	387	1900	920	301	196
25	49	56	39	27	29	39	60	385	1830	856	281	170
26	48	55	41	27	29	39	65	408	1830	822	274	159
27	49	55	38	27	27	33	56	471	1790	780	255	153
28	50	56	38	27	26	38	65	486	1870	733	245	145
29	50	56	36	27	---	34	84	496	1810	706	256	148
30	52	56	36	27	---	33	98	593	1530	692	224	143
31	47	---	34	27	---	34	---	631	---	704	219	---
TOTAL	1829	1470	1220	908	726	1126	1527	8341	45673	37303	11565	5466
MEAN	59.0	49.0	39.4	29.3	25.9	36.3	50.9	269	1522	1203	373	182
MAX	72	56	56	36	29	48	98	631	2300	1710	633	217
MIN	47	25	34	27	23	25	32	98	644	692	219	143
AC-FT	3630	2920	2420	1800	1440	2230	3030	16540	90590	73990	22940	10840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

	83.3	60.6	48.5	42.3	40.8	41.8	70.3	292	769	479	205	125
MEAN	83.3	60.6	48.5	42.3	40.8	41.8	70.3	292	769	479	205	125
MAX	192	115	86.6	70.5	66.9	58.9	112	655	1522	1203	475	231
(WY)	1985	1985	1984	1984	1985	1984	1984	1984	1995	1995	1984	1984
MIN	54.3	39.2	33.5	29.3	25.9	31.2	39.0	123	382	161	100	78.8
(WY)	1982	1982	1990	1995	1995	1976	1982	1981	1977	1977	1977	1977

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1975 - 1995
ANNUAL TOTAL	47187	117154	
ANNUAL MEAN	129	321	188
HIGHEST ANNUAL MEAN			321
LOWEST ANNUAL MEAN			109
HIGHEST DAILY MEAN	683	Jun 4	2300
LOWEST DAILY MEAN	25	Nov 15	23
ANNUAL SEVEN-DAY MINIMUM	32	Feb 16	24
INSTANTANEOUS PEAK FLOW		Not determined	2370
INSTANTANEOUS PEAK STAGE		8.10	Jun 21
ANNUAL RUNOFF (AC-FT)	93600	232400	136500
10 PERCENT EXCEEDS	428	1170	529
50 PERCENT EXCEEDS	59	56	76
90 PERCENT EXCEEDS	35	27	36

a-Maximum gage height, 8.10 ft, Jun 21, 1995.

06719505 CLEAR CREEK AT GOLDEN, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1977 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1981 to current year.
 pH: March to September 1981.
 WATER TEMPERATURE: March 1981 to current year.
 DISSOLVED OXYGEN: March to September 1981.
 SUSPENDED-SEDIMENT DISCHARGE: March to September 1981.

INSTRUMENTATION.--Water-quality monitor since March 1981.

REMARKS.--Records rated fair. Daily maximum and minimum specific conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum mean, 597 microsiemens, Jan. 9, 1983; minimum mean, 38 microsiemens, July 1, 1983.
 pH: Maximum, 8.7 units, Mar. 27, April 10, 1981; minimum, 6.6 units, July 16, 1981.
 WATER TEMPERATURE: Maximum, 23.0°C, Aug. 4, 1981; minimum, freezing point on many days during winter months most years.
 DISSOLVED OXYGEN: Maximum, 14.2 mg/L, May 7, 1981; minimum, 5.2 mg/L, July 16, 1981.
 SEDIMENT CONCENTRATION: Maximum daily, 282 mg/L, May 29, 1981; minimum daily, 3 mg/L, Sept. 21-24, 1981.
 SEDIMENT LOAD: Maximum daily, 230 tons, June 3, 1981; minimum daily, 0.62 ton, Sept. 23-24, 1981.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 416 microsiemens, Dec. 11; minimum, 103 microsiemens, June 5.
 WATER TEMPERATURES: Maximum, 13.5°C, June 12; minimum, 0.0°C on many days during winter months.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 MEAN DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	225	260	287	344	332	343	333	349	256	---	---	---
2	222	255	283	364	326	356	335	360	275	---	---	---
3	227	266	290	392	335	343	334	345	225	---	---	---
4	229	261	295	392	341	326	334	347	166	---	---	---
5	226	285	295	382	336	326	332	341	141	---	---	---
6	227	268	292	368	335	327	327	328	---	---	---	---
7	228	267	301	348	328	329	328	321	162	---	---	---
8	231	263	304	340	335	327	324	324	147	---	---	---
9	232	265	323	332	340	325	310	329	153	---	---	---
10	233	280	348	321	339	322	304	328	134	---	---	---
11	234	272	391	321	358	311	333	316	132	---	---	---
12	235	272	357	327	380	312	342	309	---	---	---	---
13	237	270	328	331	397	311	340	297	---	---	---	---
14	236	270	320	339	390	313	332	291	---	---	---	---
15	238	330	340	328	343	313	329	276	---	---	---	---
16	239	344	344	332	356	306	332	---	---	---	---	---
17	239	279	335	341	365	301	324	---	---	---	---	---
18	241	290	323	375	352	300	---	---	---	---	---	---
19	248	301	322	368	338	304	---	---	---	---	---	---
20	249	289	330	351	333	306	365	---	---	---	---	---
21	251	283	336	349	333	310	347	---	---	---	---	---
22	249	282	333	363	329	309	356	---	---	---	---	---
23	254	297	326	376	327	303	375	---	---	---	---	---
24	254	300	320	377	326	313	373	---	---	---	---	---
25	257	288	312	363	323	311	377	---	---	---	---	---
26	257	292	309	351	322	312	358	271	---	---	---	---
27	260	308	316	343	326	323	379	246	---	---	---	---
28	257	350	325	343	332	326	368	201	---	---	---	---
29	254	370	326	347	---	337	352	189	---	---	---	---
30	260	318	326	351	---	331	346	176	---	---	---	---
31	253	---	329	359	---	331	---	198	---	---	---	---
MEAN	241	289	321	352	342	320	---	---	---	---	---	---

PLATTE RIVER BASIN

06719505 CLEAR CREEK AT GOLDEN, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH					
1	12.7	10.7	5.5	3.2	.2	.0	---	---	---	---	.1	.0				
2	12.5	9.8	5.2	3.6	.3	.0	---	---	.2	.0	.4	.0				
3	11.4	10.1	3.8	.5	.2	.0	---	---	.3	.0	.8	.0				
4	12.2	10.6	2.1	.0	.4	.0	---	---	.9	.0	2.2	.0				
5	12.3	10.6	3.0	.0	.1	.0	---	---	1.3	.0	3.3	.0				
6	11.0	8.8	4.3	2.0	.0	.0	---	---	1.3	.0	1.9	.0				
7	9.2	7.4	5.5	3.2	.2	.0	---	---	1.5	.0	1.5	.0				
8	9.7	7.0	4.3	1.8	.0	.0	---	---	1.2	.0	1.7	.0				
9	9.7	6.3	2.1	.2	.2	.0	---	---	2.0	.0	5.5	.0				
10	9.6	6.3	3.8	1.0	.6	.2	---	---	.3	.0	8.0	2.3				
11	10.3	6.9	3.9	1.8	.4	.0	---	---	.1	.0	6.5	3.6				
12	10.5	7.7	6.0	3.3	.0	.0	---	---	.0	.0	6.8	3.5				
13	9.5	6.9	4.1	.0	.5	.0	---	---	.0	.0	7.4	2.4				
14	9.7	6.8	1.1	.0	---	---	---	---	.0	.0	8.6	3.0				
15	8.8	7.9	.3	.0	---	---	---	---	.0	.0	9.5	3.5				
16	9.1	7.2	.2	.0	---	---	---	---	.0	.0	10.3	5.5				
17	8.1	5.5	.0	.0	---	---	---	---	.0	.0	9.2	5.4				
18	7.1	4.3	.0	.0	---	---	---	---	.1	.0	9.2	5.1				
19	7.7	5.2	.1	.0	---	---	---	---	.2	.0	8.7	4.7				
20	7.4	4.7	.1	.0	---	---	---	---	2.1	.2	7.2	3.2				
21	7.4	5.0	.2	.0	---	---	---	---	2.9	.0	11.0	4.7				
22	7.6	5.0	.1	.0	---	---	---	---	3.6	.2	10.5	5.2				
23	7.4	4.8	.0	.0	---	---	---	---	3.2	.0	9.1	2.8				
24	6.5	4.4	.0	.0	---	---	---	---	4.7	.1	9.6	4.3				
25	5.9	3.5	.1	.0	---	---	---	---	5.3	1.1	6.6	3.1				
26	6.6	3.8	.1	.0	---	---	---	---	5.7	2.2	4.3	.7				
27	---	---	.0	.0	---	---	---	---	4.0	.5	5.4	.0				
28	---	---	.1	.0	---	---	---	---	.7	.0	2.9	.0				
29	6.9	5.0	.0	.0	---	---	---	---	---	---	.7	.0				
30	5.3	2.8	.0	.0	---	---	---	---	---	---	4.0	.0				
31	3.8	1.3	---	---	---	---	---	---	---	---	5.8	.0				
MONTH	---	---	6.0	.0	---	---	---	---	---	---	11.0	.0				
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	9.5	1.3	9.3	4.4	12.2	6.5	9.4	7.4	---	---	---	---				
2	9.2	3.2	9.1	5.1	11.1	7.0	10.2	8.0	---	---	---	---				
3	10.6	3.4	7.9	5.6	10.3	7.0	9.8	8.1	---	---	---	---				
4	12.0	4.3	10.3	4.5	10.0	7.1	10.5	7.7	---	---	---	---				
5	10.0	6.2	9.9	6.3	13.0	6.4	12.2	7.8	---	---	---	---				
6	9.9	5.5	11.6	5.2	11.7	6.4	12.5	9.1	---	---	---	---				
7	12.6	5.9	9.6	5.1	9.8	7.0	12.3	9.2	---	---	---	---				
8	13.4	6.3	7.5	4.9	7.5	6.6	13.3	9.2	---	---	---	---				
9	8.5	3.1	9.9	5.4	10.2	5.2	11.2	7.5	---	---	---	---				
10	3.1	.0	12.2	6.0	9.0	5.3	11.7	8.7	---	---	---	---				
11	5.7	.0	11.0	6.8	12.8	6.3	11.8	9.2	---	---	---	---				
12	11.1	1.7	12.0	7.2	13.5	7.2	12.5	9.1	---	---	---	---				
13	11.2	5.3	11.6	5.4	12.3	7.4	11.5	9.4	---	---	---	---				
14	11.1	6.0	10.7	6.3	11.8	7.4	10.5	9.0	---	---	---	---				
15	7.3	4.2	15.1	7.6	10.7	7.6	12.3	8.8	---	---	---	---				
16	7.1	3.7	12.3	7.9	10.1	7.0	12.9	9.5	---	---	---	---				
17	5.2	3.0	8.7	3.1	9.9	7.1	12.1	9.9	---	---	---	---				
18	7.5	1.6	11.3	3.9	10.5	6.4	---	---	---	---	---	---				
19	5.7	1.7	12.0	5.7	11.6	6.7	---	---	---	---	---	---				
20	6.8	2.4	11.0	6.7	11.3	7.2	---	---	---	---	---	---				
21	4.5	.6	10.4	6.0	11.2	7.3	---	---	---	---	---	---				
22	6.1	.6	9.3	6.6	10.8	7.3	---	---	---	---	---	---				
23	7.7	2.3	7.1	5.0	9.5	6.5	---	---	---	---	---	---				
24	11.0	2.6	6.0	3.8	8.7	7.0	---	---	---	---	---	---				
25	8.8	4.7	6.5	4.7	10.0	6.0	---	---	---	---	---	---				
26	7.0	2.8	9.6	4.0	10.5	6.9	---	---	---	---	---	---				
27	10.9	1.6	8.7	6.0	10.1	8.2	---	---	---	---	---	---				
28	9.4	6.0	8.5	5.7	9.6	8.0	---	---	---	---	---	---				
29	8.2	6.4	8.0	5.6	9.0	7.9	---	---	---	---	---	---				
30	9.1	5.5	8.2	6.1	8.8	7.4	---	---	---	---	---	---				
31	---	---	12.0	5.9	---	---	---	---	---	---	---	---				
MONTH	13.4	.0	15.1	3.1	13.5	5.2	---	---	---	---	---	---				

06719505 CLEAR CREEK AT GOLDEN,CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1993 to August 1995 (Discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT 05...	1415	65	229	8.0	12.0	9.3	69	19	5.2	15
NOV 15...	1010	27	365	7.9	0.0	13.0	100	28	7.8	27
DEC 01...	1325	56	285	7.8	0.0	11.7	81	22	6.4	19
JAN 19...	1430	16	368	7.9	0.0	11.9	110	31	8.6	27
FEB 10...	1345	22	345	7.8	0.0	13.6	99	27	7.6	24
MAR 07...	1300	28	335	8.0	1.0	11.7	98	27	7.5	24
APR 12...	1030	41	350	8.0	4.5	11.9	95	26	7.3	25
MAY 04...	1010	101	348	7.6	9.5	11.2	110	30	8.7	19
MAY 17...	1025	387	233	7.5	3.5	12.0	66	18	5.2	14
JUN 14...	1030	1370	143	7.7	8.0	10.3	45	12	3.6	6.3
JUN 19...	1200	1890	107	7.4	8.5	9.8	36	9.6	2.8	4.6
JUN 27...	1220	1640	91	7.5	8.0	10.4	29	8.0	2.1	3.6
AUG 03...	1210	547	102	7.3	12.0	9.0	32	8.6	2.5	4.7

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-A LITY WAT DIS TOT FET FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
OCT 05...	2.3	38	49	7.4	0.7	7.4	140	<0.01	0.06	0.02
NOV 15...	3.2	52	84	18	1.0	10	222	<0.01	0.31	0.35
DEC 01...	2.7	47	64	10	0.9	9.2	176	<0.01	0.36	0.08
JAN 19...	3.3	55	90	14	0.9	12	231	<0.01	0.66	0.04
FEB 10...	3.2	50	83	13	0.9	10	211	<0.01	0.43	0.03
MAR 07...	3.1	50	72	15	1.0	9.6	202	<0.01	0.40	<0.015
APR 12...	3.8	47	72	23	0.8	9.2	209	<0.01	0.39	<0.015
MAY 04...	3.0	36	82	22	0.6	13	215	<0.01	0.48	0.02
MAY 17...	2.4	34	41	17	0.5	11	140	<0.01	0.24	0.05
JUN 14...	1.5	22	29	5.5	0.4	9.9	92	<0.01	0.15	0.02
JUN 19...	1.3	12	20	3.7	0.3	8.2	81	<0.01	0.14	0.02
JUN 27...	1.1	19	15	3.0	0.3	6.8	56	0.02	0.14	0.04
AUG 03...	0.9	19	17	3.1	0.4	6.8	61	<0.01	0.11	<0.015

A-Total alkalinity, determined in field by fixed end-point titration method on filtered sample.

06719505 CLEAR CREEK AT GOLDEN,CO--Continued
 (National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT 05...	<0.20	<0.20	0.02	0.01	<0.01	140	310	1.1	0.4
NOV 15...	0.50	0.40	0.03	<0.01	<0.01	140	800	1.2	0.9
DEC 01...	<0.20	<0.20	0.03	<0.01	<0.01	150	320	0.9	0.9
JAN 19...	<0.20	<0.20	<0.01	<0.01	<0.01	45	480	0.9	0.4
FEB 10...	<0.20	<0.20	<0.01	<0.01	0.01	34	710	0.8	0.7
MAR 07...	<0.20	<0.20	0.04	<0.01	<0.01	45	610	1.1	1.0
APR 12...	<0.20	<0.20	0.02	<0.01	<0.01	96	700	1.1	1.0
MAY 04...	0.40	<0.20	0.12	0.02	<0.01	110	1600	3.0	2.5
MAY 17...	3.0	0.20	1.3	0.02	<0.01	270	630	3.5	12
JUN 14...	<0.20	<0.20	0.02	<0.01	<0.01	360	480	3.9	4.5
JUN 19...	0.40	<0.20	0.16	<0.01	0.02	310	290	4.1	3.6
JUN 27...	<0.20	<0.20	0.09	<0.01	<0.01	210	220	3.1	0.8
AUG 03...	<0.20	<0.20	0.05	0.02	<0.01	97	280	1.5	0.4

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
MAY 04...	0955	105	92	26
MAY 17...	1050	379	836	855
JUN 14...	1000	1390	803	3010
JUN 19...	1125	1920	1040	5380

06720500 SOUTH PLATTE RIVER AT HENDERSON, CO

LOCATION.--Lat 39°55'19", long 104°52'00", in SE¹/4NE¹/4 sec.34, T.1 S., R.67 W., Adams County, Hydrologic Unit 10190003, on right bank 500 ft upstream from bridge on State Highway 22 and 0.2 mi northwest of Henderson.
DRAINAGE AREA.--4,713 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1926 to current year. Prior to October 1933, monthly discharge only, published in WSP 1310.
REVISED RECORDS.--WSP 1310: 1934-36(M). WSP 1730: Drainage area. WDR C0-88-1: 1986.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,003.12 ft above sea level. See WSP 1710 or 1730 for history of changes prior to June 1, 1960. June 1, 1960, to May 10, 1969, water-stage recorder at site 1,200 ft upstream at datum 2.00 ft, higher. May 11 to Oct. 2, 1969, nonrecording gage at site 500 ft downstream at present datum.

REMARKS.--Estimated daily discharges: Jan. 1-3. Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, ground-water withdrawals, diversions for irrigation of about 253,000 acres, and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	409	227	171	202	183	197	108	333	4330	4460	708	774
2	405	200	180	197	187	184	95	320	4520	4720	600	625
3	227	220	191	192	186	191	96	393	5270	4500	534	500
4	206	220	202	188	188	187	103	392	5400	4440	500	450
5	236	197	209	179	187	182	132	337	5630	4530	456	419
6	239	186	208	191	188	225	190	433	4800	4560	412	390
7	217	192	205	198	196	208	206	394	4760	4060	371	459
8	209	211	223	199	192	197	183	1460	4610	4100	337	509
9	202	225	211	191	199	166	240	514	6500	4240	384	742
10	209	205	201	188	204	151	400	444	3920	3990	531	813
11	203	199	198	191	209	141	283	335	3750	4190	449	589
12	201	199	206	193	196	133	242	292	3850	3940	561	674
13	205	202	204	191	202	135	172	281	4520	3860	391	446
14	203	329	221	196	406	138	164	261	4970	4040	453	434
15	210	317	197	192	271	128	165	258	4800	3880	422	445
16	231	222	194	195	211	115	132	244	4390	4330	367	324
17	497	204	197	197	200	119	164	4920	4870	3840	412	314
18	350	188	196	194	190	124	225	3420	5640	3490	456	340
19	297	183	194	196	186	120	509	2440	4710	3690	1540	611
20	257	188	191	200	192	105	229	2670	4580	3940	670	588
21	256	187	202	204	199	78	255	2760	4840	3330	679	1520
22	259	179	194	195	195	71	291	2950	4740	2520	759	918
23	253	185	197	200	191	55	197	2560	4700	2670	724	666
24	260	187	192	204	194	65	267	2830	4880	2240	809	575
25	257	165	179	193	206	65	255	2610	4600	1510	863	521
26	254	172	171	180	192	91	1220	2650	4480	1040	735	446
27	264	173	192	184	191	92	361	5770	4340	806	689	458
28	248	176	189	182	194	83	230	3430	4860	605	735	422
29	249	174	192	205	---	108	556	4130	6280	582	736	433
30	252	174	199	199	---	133	603	3820	4340	578	793	1050
31	264	---	206	191	---	115	---	4430	---	639	836	---
TOTAL	8029	6086	6112	6007	5735	4102	8273	58081	143880	99320	18912	17455
MEAN	259	203	197	194	205	132	276	1874	4796	3204	610	582
MAX	497	329	223	205	406	225	1220	5770	6500	4720	1540	1520
MIN	201	165	171	179	183	55	95	244	3750	578	337	314
AC-FT	15930	12070	12120	11910	11380	8140	16410	115200	285400	197000	37510	34620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	342	322	290	309	318	372	519	1158	1284	850	626	375									
MAX	1835	1268	554	592	642	842	1732	3923	4796	3204	2074	1141									
(WY)	1985	1985	1984	1984	1984	1983	1983	1980	1995	1995	1984	1984									
MIN	144	173	177	155	156	118	140	324	334	269	279	157									
(WY)	1978	1978	1976	1977	1977	1982	1982	1986	1981	1994	1977	1977									

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1976 - 1995

ANNUAL TOTAL	104611	381992	
ANNUAL MEAN	287	1047	a 565
HIGHEST ANNUAL MEAN			1379 1983
LOWEST ANNUAL MEAN			b 252 1981
HIGHEST DAILY MEAN	1370 Apr 25	6500 Jun 9	b 6500 Jun 9 1995
LOWEST DAILY MEAN	74 Apr 8	55 Mar 23	c 27 Apr 7 1977
ANNUAL SEVEN-DAY MINIMUM	97 Apr 2	74 Mar 21	d 69 Mar 13 1982
INSTANTANEOUS PEAK FLOW		11600 May 17	d 12300 Jun 27 1983
INSTANTANEOUS PEAK STAGE		9.91 May 17	e 7.58 Jun 27 1983
ANNUAL RUNOFF (AC-FT)	207500	757700	409300
10 PERCENT EXCEEDS	465	4330	1070
50 PERCENT EXCEEDS	248	249	329
90 PERCENT EXCEEDS	174	172	176

a-Average discharge for 48 years (water years 1927-74), 366 ft³/s; 265200 acre-ft/yr, prior to completion of Chatfield Dam.

b-Maximum daily discharge for period of record, 13200 ft³/s, May 7, 1973.

c-Minimum daily discharge for period of record, 4.4 ft³/s, Apr 1, 1950.

d-Maximum discharge and stage for period of record, 33000 ft³/s, May 6, 1973, gage height, 11.67 ft, from rating curve extended above 7200 ft³/s, partly on basis of flow-over-road measurement of peak flow; maximum gage height, 12.93 ft, Jun 17, 1965, site and datum then in use.

e-Maximum gage height for statistical period, 9.91 ft, May 17, 1995.

06720500 SOUTH PLATTE RIVER AT HENDERSON, CO--Continued
 (National Stream-Quality Accounting Network station and National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1955 to September 1957, June 1962 to September 1973.

NASQAN DATA: April 1988 to current year.

NAWQA DATA: October 1993 to current year.

REMARKS.--Samples collected Dec. 9, Jan. 18, and Mar. 21, are NASQAN samples. The remaining samples are NAWQA samples.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT												
07...	1400	250	954	7.8	18.0	--	7.6	--	--	220	66	14
NOV												
15...	1310	291	892	7.5	10.0	--	8.5	--	--	190	55	12
DEC												
08...	1330	197	1010	7.7	9.0	--	8.9	--	--	230	67	16
09...	1205	154	960	7.6	6.5	7.4	9.3	230	K63	220	65	15
JAN												
10...	0710	197	1040	7.7	9.0	--	7.6	--	--	230	65	16
18...	1130	145	1010	7.7	7.0	5.4	9.1	K33	K54	220	63	15
FEB												
14...	1300	126	1080	7.8	7.5	--	10.8	--	--	230	67	15
MAR												
07...	1145	141	1100	7.9	9.0	--	10.1	--	--	230	66	15
21...	1115	44	1060	8.0	13.0	4.3	10.9	K39	K23	250	70	18
APR												
17...	1350	54	1060	7.9	11.5	--	9.7	--	--	220	66	14
MAY												
02...	1150	270	977	7.7	13.5	--	7.7	--	--	240	71	15
JUN												
15...	1320	5040	317	7.7	15.0	--	8.6	--	--	90	26	6.2
21...	1330	4840	265	7.5	15.0	--	7.9	--	--	76	22	5.1
28...	1330	4190	276	7.5	15.5	--	8.1	--	--	73	21	5.0
AUG												
21...	1425	695	656	7.7	24.0	--	6.4	--	--	170	51	11
SEP												
06...	1100	308	788	7.7	21.5	--	6.9	--	--	200	58	13

K-Based on non-ideal colony count.

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR- ^A BONATE WATER DIS IT FIELD (MG/L AS HCO3)	CAR- ^B BONATE WATER DIS IT FIELD (MG/L AS CO3)	ALKA- ^C LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT												
07...	100	3	10	172	0	141	160	80	1.2	12	584	559
NOV												
15...	98	3	8.4	162	0	133	130	88	0.9	9.6	530	507
DEC												
08...	100	3	11	210	0	172	170	86	1.2	11	613	599
09...	100	3	9.8	163	0	134	160	81	1.1	12	584	559
JAN												
10...	100	3	11	216	0	177	170	87	1.1	11	627	599
18...	100	3	11	--	--	--	160	86	1.1	11	598	E568
FEB												
14...	110	3	12	226	0	185	170	100	1.1	11	632	630
MAR												
07...	120	3	11	194	0	159	170	120	1.2	9.7	656	637
21...	110	3	11	--	--	--	180	94	1.1	8.3	632	E616
APR												
17...	98	3	9.4	215	0	176	180	94	1.1	8.9	630	608
MAY												
02...	97	3	9.4	199	0	163	180	74	1.1	11	599	581
JUN												
15...	24	1	2.7	77	0	63	50	19	0.7	12	196	183
21...	20	1	2.5	65	0	53	40	15	0.6	9.9	169	151
28...	19	1	2.2	69	0	56	39	16	0.6	9.8	164	151
AUG												
21...	61	2	5.2	160	0	131	110	45	0.8	11	403	389
SEP												
06...	79	2	6.6	174	0	141	130	61	1.1	11	478	46

A-Dissolved bicarbonate, determined in field by incremental titration method on filtered sample
 B-Dissolved carbonate, determined in field by incremental titration method on filtered sample.
 C-Total alkalinity, determined in field by incremental titration method on filtered sample.
 E-Estimated.

06720500 SOUTH PLATTE RIVER AT HENDERSON, CO--Continued
 (National Stream-Quality Accounting Network station and National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 07...	0.79	394	0.65	5.1	2.8	1.1	3.9	3.8	9.0	1.7	1.7	1.6
NOV 15...	0.72	416	0.25	4.1	2.4	1.2	3.6	3.0	7.7	1.6	1.3	1.2
DEC 08...	0.83	326	0.35	5.1	4.1	1.4	5.5	4.9	11	1.9	1.6	1.6
09...	0.79	181	0.27	4.7	3.5	1.7	5.2	--	9.9	1.8	1.5	1.5
JAN 10...	0.85	334	0.42	4.7	4.6	1.3	5.9	5.7	11	2.1	1.9	1.6
18...	E0.81	E210	0.39	5.0	4.7	1.5	6.2	--	11	2.2	2.0	1.8
FEB 14...	0.86	215	0.35	4.0	7.2	1.3	8.5	8.0	12	1.9	1.9	1.7
MAR 07...	0.89	250	0.40	4.4	3.7	1.5	5.2	5.4	9.6	1.5	1.3	1.2
21...	E0.86	E107	0.47	4.3	3.9	1.5	5.4	--	9.7	1.9	1.6	1.4
APR 17...	0.86	92.0	0.44	4.4	5.4	1.4	6.8	6.2	11	1.7	1.5	1.5
MAY 02...	0.81	437	0.26	4.5	0.67	3.5	4.2	4.1	8.7	1.3	1.1	1.1
JUN 15...	0.27	2670	0.02	0.72	0.30	0.80	1.1	0.60	1.8	0.33	0.13	0.12
21...	0.23	2210	0.03	0.63	0.27	0.53	0.80	0.50	1.4	0.47	0.11	0.11
28...	0.22	1860	0.04	0.78	0.26	0.54	0.80	0.70	1.6	0.31	0.13	0.12
AUG 21...	0.55	756	0.17	2.8	0.50	1.1	1.6	1.1	4.4	0.85	0.61	0.60
SEP 06...	0.65	398	0.32	4.3	0.93	0.87	1.8	1.6	6.1	1.1	1.0	0.94

E-Estimated.

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
OCT 07...	1400	--	--	--	81	--	210	--
NOV 15...	1310	--	--	--	66	--	190	--
DEC 08...	1330	--	--	--	140	--	290	--
09...	1205	<10	29	<3	65	19	270	10
JAN 10...	0710	--	--	--	130	--	240	--
18...	1130	--	--	--	--	--	--	--
FEB 14...	1300	--	--	--	92	--	260	--
MAR 07...	1145	--	--	--	41	--	260	--
21...	1115	<10	29	<3	39	23	250	30
APR 17...	1350	--	--	--	72	--	260	--
MAY 02...	1150	--	--	--	40	--	210	--
JUN 15...	1320	--	--	--	230	--	140	--
21...	1330	--	--	--	76	--	110	--
28...	1330	--	--	--	78	--	73	--
AUG 21...	1425	--	--	--	18	--	120	--
SEP 06...	1100	--	--	--	45	--	200	--

PLATTE RIVER BASIN

06720500 SOUTH PLATTE RIVER AT HENDERSON, CO--Continued
 (National Stream-Quality Accounting Network station and National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDEED TOTAL (MG/L AS C)
OCT 07...	--	--	--	--	--	7.3	0.70
NOV 15...	--	--	--	--	--	7.0	1.4
DEC 08...	--	--	--	--	--	7.5	2.7
09...	4	<1	<1	540	<6	--	--
JAN 10...	--	--	--	--	--	7.2	2.0
18...	--	--	--	--	--	--	--
FEB 14...	--	--	--	--	--	8.3	3.0
MAR 07...	--	--	--	--	--	7.7	1.9
21...	6	2	<1	580	<6	--	--
APR 17...	--	--	--	--	--	7.1	0.80
MAY 02...	--	--	--	--	--	6.8	1.5
JUN 15...	--	--	--	--	--	5.2	4.5
21...	--	--	--	--	--	5.4	3.4
28...	--	--	--	--	--	5.1	1.3
AUG 21...	--	--	--	--	--	5.6	2.1
SEP 06...	--	--	--	--	--	5.4	1.3

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDEED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEED (T/DAY)
DEC 09...	1205	154	24	10
JAN 18...	1130	145	24	9.4
MAR 21...	1115	44	15	1.8
JUN 15...	1350	5050	456	6220
21...	1230	4860	590	7740

06720820 BIG DRY CREEK AT WESTMINSTER, CO

LOCATION.--Lat 39°54'20", long 105°02'04", NE¹/4SE¹/4 sec.6, T.2 S., R.68 W., Adams County, Hydrologic Unit 10190003, on left bank 0.75 mi upstream from bridge on 120th Ave and 5.2 mi downstream from outlet of Standley Lake.

DRAINAGE AREA.--43.8 mi².

PERIOD OF RECORD.--July 1987 to September 1995 (Discontinued).

REVISED RECORDS.--WDR CO-91-1: Drainage area.

GAGE.--Water-stage recorder and concrete and wooden control. Elevation of gage is 5,215 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 14-17, 28, 29, Dec. 14, 19, 22, Jan. 8-10, Feb. 3-9, 14-16, and Mar. 6,7. Records fair except for estimated daily discharges, which are poor. Flow affected by storage diversions, ground-water withdrawals and diversions for irrigation and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	3.3	1.5	.85	1.3	1.4	12	20	22	71	80	58
2	5.8	1.7	1.5	.88	.60	1.1	19	17	19	68	28	57
3	3.3	2.1	1.6	.95	1.1	1.1	2.0	16	54	67	28	55
4	3.4	4.9	1.4	.67	1.0	1.2	5.1	18	27	71	22	45
5	2.6	2.4	1.2	.31	1.0	1.1	1.5	12	21	57	23	42
6	3.2	2.0	1.7	.28	1.0	1.2	1.4	17	30	55	24	44
7	1.8	1.7	1.6	.52	1.0	1.4	1.3	19	45	56	26	42
8	3.1	4.0	1.8	.45	1.0	1.5	1.2	19	49	55	32	38
9	3.4	4.0	1.5	.45	1.0	1.4	1.7	17	146	55	34	45
10	2.9	2.0	1.4	.45	1.9	1.3	11	13	45	62	37	46
11	2.4	1.6	1.4	.29	1.5	1.4	11	9.6	26	70	42	39
12	3.1	1.5	1.6	.16	1.6	1.9	3.8	8.4	20	81	40	41
13	2.8	1.5	2.7	.41	1.7	1.9	2.2	7.8	15	90	33	53
14	2.8	1.6	2.7	.46	1.7	1.8	1.4	7.8	15	91	34	50
15	2.7	1.6	2.4	.59	1.8	1.3	1.7	7.8	32	83	31	47
16	2.9	1.6	1.8	.69	1.8	1.1	2.6	11	40	87	30	43
17	12	1.6	2.2	.43	1.7	1.9	5.2	164	44	85	32	46
18	3.9	1.7	2.8	.29	2.0	1.6	6.0	42	44	82	37	43
19	2.1	1.6	2.9	.84	1.6	1.2	18	11	38	95	40	43
20	2.1	1.7	2.5	1.0	1.5	1.1	6.1	7.8	42	98	39	36
21	1.9	1.7	2.3	1.2	1.3	.99	9.0	7.3	48	100	43	34
22	1.8	1.6	2.2	1.1	1.3	.98	6.6	10	53	98	38	19
23	1.9	1.5	1.8	.93	1.2	.93	6.8	8.1	55	94	33	6.7
24	1.6	1.5	1.4	.92	1.1	1.0	8.0	31	55	90	31	4.5
25	2.0	1.4	1.3	.98	1.2	.92	8.1	29	50	88	29	4.2
26	2.3	1.4	1.1	.99	1.1	1.4	41	32	50	87	29	3.6
27	3.0	1.4	.98	1.0	1.0	1.3	17	143	61	91	30	3.6
28	2.6	1.5	.96	1.0	1.6	1.2	14	92	70	90	34	3.6
29	2.3	1.6	1.3	1.6	---	1.7	35	133	98	89	52	5.0
30	3.6	1.6	1.4	1.6	---	1.9	32	77	76	87	54	20
31	4.0	---	.93	1.4	---	1.5	---	34	---	82	58	---
TOTAL	96.1	59.3	53.87	23.69	37.60	41.72	291.7	1041.6	1390	2475	1123	1017.2
MEAN	3.10	1.98	1.74	.76	1.34	1.35	9.72	33.6	46.3	79.8	36.2	33.9
MAX	12	4.9	2.9	1.6	2.0	1.9	41	164	146	100	80	58
MIN	1.6	1.4	.93	.16	.60	.92	1.2	7.3	15	55	22	3.6
AC-FT	191	118	107	47	75	83	579	2070	2760	4910	2230	2020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1995, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	3.94	2.53	1.52	1.55	1.70	4.97	6.87	22.0
MAX	9.95	4.54	2.02	3.16	3.85	16.2	12.6	33.6
(WY)	1988	1988	1993	1994	1993	1992	1992	1995
MIN	1.55	1.33	1.14	.76	1.00	1.30	1.52	9.98
(WY)	1989	1989	1991	1995	1988	1989	1989	1989

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1988 - 1995

ANNUAL TOTAL	4918.76	7650.78	
ANNUAL MEAN	13.5	21.0	14.6
HIGHEST ANNUAL MEAN			21.0
LOWEST ANNUAL MEAN			7.72
HIGHEST DAILY MEAN	65	164	164
LOWEST DAILY MEAN	.55	.16	.16
ANNUAL SEVEN-DAY MINIMUM	.63	.37	.37
INSTANTANEOUS PEAK FLOW		363	363
INSTANTANEOUS PEAK STAGE		a 4.61	b 4.61
ANNUAL RUNOFF (AC-FT)	9760	15180	10550
10 PERCENT EXCEEDS	41	61	44
50 PERCENT EXCEEDS	3.7	3.4	2.9
90 PERCENT EXCEEDS	1.4	1.0	1.1

a-Maximum gage height, 4.84 ft, May 17.

b-Maximum gage height, 4.95 ft, Jun 18, 1993, backwater from debris.

06720990 BIG DRY CREEK AT MOUTH NEAR FORT LUPTON, CO

LOCATION.--Lat 40°04'09", long 104°49'52", in NE¹/₄SE¹/₄ sec.12, T.1 N., R.67 W., Weld County, Hydrologic Unit 10190003, on left bank 1.0 mi west of State Highway 85, 1.1 mi south of State Highway 52, and 25 mi northeast of Denver.

DRAINAGE AREA.--107 mi².

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,900 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 18 to Dec. 16, Dec. 29 to Jan. 10, Feb. 9-17, May 4, 18, 27-30, and June 9-30. Records poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	53	31	10	9.9	18	45	64	86	210	68	41
2	116	37	27	12	9.6	18	48	47	65	216	62	37
3	91	38	23	11	8.5	19	54	46	103	204	44	29
4	76	39	21	11	8.8	19	37	44	99	176	31	26
5	81	40	18	13	8.8	18	36	37	115	179	28	28
6	88	37	18	14	9.2	20	41	38	77	157	27	51
7	86	37	19	14	8.3	24	36	37	80	111	22	65
8	83	37	15	20	7.6	20	43	41	142	101	19	78
9	85	38	14	20	7.4	20	69	33	270	113	25	81
10	85	39	13	22	7.0	20	72	28	200	96	35	101
11	86	30	19	22	6.0	19	56	28	140	109	37	83
12	85	31	18	20	5.4	19	48	32	120	102	49	64
13	82	32	20	17	4.7	17	34	28	100	116	45	66
14	74	34	19	16	6.8	10	47	25	92	207	44	50
15	74	30	18	16	7.5	4.0	61	27	88	185	49	41
16	79	29	18	16	15	2.3	51	30	84	143	46	31
17	80	28	23	14	27	1.9	48	112	130	69	38	27
18	74	22	25	13	23	11	62	200	92	64	30	22
19	49	21	25	12	24	24	69	82	86	65	51	31
20	43	26	28	12	23	24	68	57	80	138	43	57
21	42	24	30	12	22	27	52	51	76	112	35	105
22	40	23	31	13	21	45	54	44	72	91	39	102
23	39	24	31	15	20	43	40	41	108	80	32	88
24	39	27	29	13	14	46	49	67	110	64	27	78
25	38	25	28	11	9.3	46	50	81	115	52	25	80
26	39	23	26	11	5.8	60	139	70	110	49	38	58
27	38	15	25	11	5.3	67	82	190	98	47	37	55
28	38	17	24	10	12	57	61	260	145	38	42	56
29	37	18	18	11	---	57	107	240	200	40	43	54
30	36	24	15	11	---	54	98	250	220	55	45	66
31	40	---	11	11	---	48	---	188	---	61	44	---
TOTAL	1994	898	680	434	336.9	878.2	1757	2518	3503	3450	1200	1751
MEAN	64.3	29.9	21.9	14.0	12.0	28.3	58.6	81.2	117	111	38.7	58.4
MAX	116	53	31	22	27	67	139	260	270	216	68	105
MIN	36	15	11	10	4.7	1.9	34	25	65	38	19	22
AC-FT	3960	1780	1350	861	668	1740	3490	4990	6950	6840	2380	3470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

	1992	1993	1994	1995	1992	1993	1994	1995	1992	1993	1994	1995
MEAN	42.3	29.2	22.2	19.7	18.8	31.7	50.0	59.7	74.2	56.5	40.6	48.9
MAX	64.3	29.9	23.5	22.6	21.8	50.1	58.6	85.5	117	111	51.5	67.0
(WY)	1995	1992	1992	1992	1993	1992	1995	1994	1995	1995	1992	1993
MIN	30.2	26.9	19.6	14.0	12.0	18.4	39.2	26.4	35.8	30.9	27.4	27.1
(WY)	1992	1993	1994	1995	1995	1993	1993	1993	1993	1994	1994	1994

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1992 - 1995
ANNUAL TOTAL	15102.42	19400.1	
ANNUAL MEAN	41.4	53.2	41.2
HIGHEST ANNUAL MEAN			53.2
LOWEST ANNUAL MEAN			35.1
HIGHEST DAILY MEAN	194	270	338
LOWEST DAILY MEAN	.32	1.9	.32
ANNUAL SEVEN-DAY MINIMUM	12	6.4	3.6
INSTANTANEOUS PEAK FLOW		Not determined	341
INSTANTANEOUS PEAK STAGE		8.32	7.38
ANNUAL RUNOFF (AC-FT)	29960	38480	29850
10 PERCENT EXCEEDS	85	109	80
50 PERCENT EXCEEDS	27	39	28
90 PERCENT EXCEEDS	16	12	15

a-From high-water mark.

b-Maximum gage height, 8.32 ft, Jun 9, 1995.

06721500 NORTH ST VRAIN CREEK NEAR ALLENS PARK, CO

LOCATION.--Lat. 40°13'08", long 105°31'40", in SW¹/₄SE¹/₄ sec.14, T.3 N., R.73 W., Boulder County, Hydrologic Unit 10190005, on left bank 64 ft upstream from bridge on Colorado Highway 7, 0.8 mi upstream from Horse Creek, and 1.7 mi north of Allens Park.

DRAINAGE AREA.--32.6 mi².

PERIOD OF RECORD.--October 1925 to September 1930. October 1986 to current year.

REVISIONS.--WDR CO-91-1: 1987, 1988, 1989 (M).

GAGE.--Water stage recorder with satellite telemetry. Elevation of gage is 8,280 ft above sea level, from topographic map. Oct. 1, 1926 to June 6, 1929, water-stage recorder at present site at different datum. June 6, 1929 to Sept. 30, 1930 at site 300 ft downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 31 to Nov. 1, Nov. 4-5, 9-11, 13-16, 18-30, Dec. 9 to Jan. 10, Jan. 17 to Feb. 1, Feb. 3-5, 8-17, 19-21, 23-26, Feb. 28 to Mar. 10, Mar. 13-14, 20, 23, Mar. 25 to Apr. 4, and Apr. 11-12, 18, 22-24, 27. Records good except for estimated daily discharges, which are poor. No diversions upstream from station. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	10	8.7	6.0	5.0	4.9	5.9	11	84	254	158	54
2	14	10	8.5	6.0	5.2	4.9	5.8	11	104	270	144	57
3	14	10	8.4	5.9	4.9	4.9	5.7	13	122	306	134	57
4	14	10	8.3	5.9	4.9	4.9	5.7	13	141	251	131	52
5	15	10	8.3	5.9	4.9	4.9	6.1	16	204	228	131	48
6	16	10	8.2	5.9	5.1	4.9	6.3	19	238	281	124	48
7	16	9.9	7.9	5.9	5.0	5.0	7.2	18	230	322	122	48
8	16	9.7	7.4	5.9	4.8	5.0	7.9	16	187	344	132	53
9	16	9.8	7.4	5.8	4.8	5.0	8.3	15	154	383	137	48
10	15	9.8	7.4	5.8	4.8	5.0	7.8	16	114	423	127	43
11	14	9.7	7.4	5.9	4.8	5.4	7.6	21	115	434	128	41
12	14	9.7	7.4	5.9	4.8	5.3	7.4	24	165	460	137	37
13	14	9.5	7.4	5.6	4.8	5.1	7.3	25	227	397	129	33
14	13	9.6	7.3	5.6	4.9	5.2	7.9	27	304	389	117	31
15	13	9.6	7.2	5.5	4.9	5.6	7.6	42	418	345	100	30
16	14	9.6	7.2	5.2	4.9	5.9	7.3	56	448	308	96	29
17	13	9.6	7.0	5.1	4.9	6.2	7.2	62	413	291	91	29
18	13	9.6	7.0	5.1	5.2	6.1	7.2	53	428	289	94	29
19	15	9.5	6.8	5.1	4.9	6.4	7.4	53	368	297	94	34
20	13	9.4	6.7	5.1	4.9	6.4	7.3	57	387	307	90	38
21	13	9.2	6.6	5.1	4.9	6.3	6.8	64	410	269	87	39
22	13	9.1	6.6	5.1	5.1	6.2	6.9	76	419	228	94	33
23	12	9.0	6.4	5.1	4.9	6.2	7.1	68	391	202	92	30
24	12	8.8	6.4	5.1	4.9	6.0	7.2	55	346	180	86	29
25	12	8.6	6.4	5.1	4.9	6.1	7.4	48	311	171	91	27
26	12	8.5	6.3	5.1	4.8	6.1	7.3	45	327	179	81	27
27	11	8.3	6.3	5.1	5.1	6.1	7.7	47	326	180	75	25
28	11	8.2	6.3	5.1	4.9	6.1	8.4	44	338	173	70	24
29	11	8.1	6.2	5.1	---	6.2	9.5	48	371	171	68	24
30	11	8.0	6.2	5.2	---	6.2	10	57	288	177	66	24
31	10	---	6.1	5.2	---	6.0	---	61	---	177	59	---
TOTAL	414	280.8	221.7	169.4	137.9	174.5	219.2	1181	8378	8686	3285	1121
MEAN	13.4	9.36	7.15	5.46	4.92	5.63	7.31	38.1	279	280	106	37.4
MAX	16	10	8.7	6.0	5.2	6.4	10	76	448	460	158	57
MIN	10	8.0	6.1	5.1	4.8	4.9	5.7	11	84	171	59	24
AC-FT	821	557	440	336	274	346	435	2340	16620	17230	6520	2220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1995, BY WATER YEAR (WY)

MEAN	18.4	12.4	8.22	6.73	5.88	6.90	17.1	95.5	222	142	69.4	33.3
MAX	35.2	18.5	11.8	9.00	8.00	9.00	30.4	134	294	280	126	76.3
(WY)	1930	1930	1926	1926	1926	1929	1930	1926	1926	1995	1930	1929
MIN	10.7	8.16	6.69	5.46	4.00	5.45	7.31	38.1	141	66.3	34.0	15.9
(WY)	1989	1989	1989	1995	1930	1992	1995	1995	1987	1994	1988	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1926 - 1995	
ANNUAL TOTAL	15908.0		24268.5			
ANNUAL MEAN	43.6		66.5		53.3	
HIGHEST ANNUAL MEAN					67.9	
LOWEST ANNUAL MEAN					40.0	
HIGHEST DAILY MEAN	393	Jun 1	460	Jul 12	460	Jul 12 1995
LOWEST DAILY MEAN	^a 5.4	Feb 14	^b 4.8	Feb 8	4.0	Feb 1 1930
ANNUAL SEVEN-DAY MINIMUM	5.4	Feb 22	4.8	Feb 8	4.0	Feb 1 1930
INSTANTANEOUS PEAK FLOW			524	Jun 15	^c 1000	Jun 9 1929
INSTANTANEOUS PEAK STAGE			6.80	Jun 15	^d 6.80	Jun 15 1995
ANNUAL RUNOFF (AC-FT)	31550		48140		38590	
10 PERCENT EXCEEDS	152		252		164	
50 PERCENT EXCEEDS	13		11		15	
90 PERCENT EXCEEDS	5.7		5.1		6.0	

a-Also occurred Feb 15 and Feb 25-28.

b-Also occurred Feb 9-13, 26.

c-Maximum discharge, estimated, caused by failure of Copeland Dam 0.5 mi upstream, gage height not determined.

d-Maximum gage height recorded.

06725450 ST VRAIN CREEK BELOW LONGMONT, CO

LOCATION.--Lat 40°09'30", long 105°00'48", in NW¹/4NW¹/4 sec.9, T.2 N., R.68 W., Weld County, Hydrologic Unit 10190005, on left bank 1,750 ft upstream from mouth of Boulder Creek, 1.8 mi downstream from Spring Gulch, and 4.7 mi southeast of Longmont.

DRAINAGE AREA.--424 mi².

PERIOD OF RECORD.--October 1976 to September 1982, August 1984 to current year. Water-quality data available, October 1976 to February 1981.

GAGE.--Water-stage recorder. Elevation of gage is 4,852 ft, above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream affected by storage reservoirs, diversions for irrigation, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	60	56	50	49	46	42	188	1570	863	115	187
2	84	62	56	51	48	45	41	161	1420	842	91	187
3	87	64	54	50	46	46	41	105	1430	879	84	195
4	90	68	52	49	45	45	41	81	1260	812	77	188
5	82	64	52	49	45	44	43	74	1130	719	79	189
6	75	63	54	49	45	53	42	86	1330	701	77	190
7	69	64	54	49	45	48	44	111	1330	774	72	198
8	62	68	54	52	45	47	42	91	1400	798	67	204
9	62	69	51	49	45	46	42	69	1940	832	92	195
10	61	68	50	49	48	48	47	68	1660	924	140	199
11	63	69	50	49	45	45	47	71	1330	891	149	196
12	61	66	50	48	45	44	44	77	1260	850	155	170
13	61	63	50	48	47	44	44	72	1240	749	158	91
14	61	76	50	48	49	43	42	90	1240	693	163	84
15	65	70	49	48	49	42	41	135	1370	606	164	82
16	65	63	48	48	48	42	41	149	1450	489	156	82
17	81	62	48	49	49	42	49	897	1360	400	147	85
18	71	60	48	47	52	42	50	1270	1250	336	148	93
19	67	60	49	48	50	42	71	1170	1000	263	154	113
20	66	60	47	47	50	42	59	1270	825	288	155	122
21	64	61	51	46	49	42	66	1210	973	291	161	140
22	63	61	54	45	49	41	58	1000	1070	194	156	112
23	62	59	52	46	45	41	51	926	1040	142	159	105
24	62	59	55	47	46	41	50	950	1000	112	166	99
25	63	58	48	47	45	41	49	1040	976	97	176	94
26	64	58	48	47	44	42	71	1090	944	85	173	91
27	63	55	49	48	45	42	53	1400	947	75	173	86
28	61	53	48	46	45	42	62	1600	964	70	186	83
29	59	53	48	48	---	44	104	2000	1110	71	181	90
30	61	55	49	48	---	43	167	2580	1000	74	175	88
31	62	---	47	48	---	43	---	2120	---	122	171	---
TOTAL	2097	1871	1571	1493	1313	1358	1644	22151	36819	15042	4320	4038
MEAN	67.6	62.4	50.7	48.2	46.9	43.8	54.8	715	1227	485	139	135
MAX	90	76	56	52	52	53	167	2580	1940	924	186	204
MIN	59	53	47	45	44	41	41	68	825	70	67	82
AC-FT	4160	3710	3120	2960	2600	2690	3260	43940	73030	29840	8570	8010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	68.1	58.2	51.0	45.4	45.0	50.5	78.2	238	343	173	148	101								
MAX	159	126	91.5	92.8	94.0	111	259	1155	1227	485	185	152								
(WY)	1985	1985	1985	1980	1980	1980	1980	1980	1995	1995	1986	1982								
MIN	45.5	34.5	30.8	25.7	27.9	28.9	27.5	35.8	63.3	100	88.9	53.7								
(WY)	1990	1979	1979	1978	1978	1982	1982	1977	1981	1981	1977	1977								

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	FOR 1996 WATER YEAR	FOR 1997 WATER YEAR	FOR 1998 WATER YEAR	FOR 1999 WATER YEAR	FOR 2000 WATER YEAR	FOR 2001 WATER YEAR	FOR 2002 WATER YEAR	FOR 2003 WATER YEAR	FOR 2004 WATER YEAR	FOR 2005 WATER YEAR	FOR 2006 WATER YEAR	FOR 2007 WATER YEAR	FOR 2008 WATER YEAR	FOR 2009 WATER YEAR	FOR 2010 WATER YEAR	FOR 2011 WATER YEAR	FOR 2012 WATER YEAR	FOR 2013 WATER YEAR	FOR 2014 WATER YEAR	FOR 2015 WATER YEAR	FOR 2016 WATER YEAR	FOR 2017 WATER YEAR	FOR 2018 WATER YEAR	FOR 2019 WATER YEAR	FOR 2020 WATER YEAR
ANNUAL TOTAL	32216	93717																									
ANNUAL MEAN	88.3	257																									
HIGHEST ANNUAL MEAN																											
LOWEST ANNUAL MEAN																											
HIGHEST DAILY MEAN	459	Jun 2	2580	May 30	2580	May 30	2580	May 30	2580	May 30	2580	May 30	2580	May 30	2580	May 30	2580	May 30	2580	May 30	2580	May 30	2580	May 30	2580	May 30	2580
LOWEST DAILY MEAN	33	Apr 1	41	Mar 22	41	Mar 22	41	Mar 22	41	Mar 22	41	Mar 22	41	Mar 22	41	Mar 22	41	Mar 22	41	Mar 22	41	Mar 22	41	Mar 22	41	Mar 22	41
ANNUAL SEVEN-DAY MINIMUM	34	Mar 31	41	Mar 19	41	Mar 19	41	Mar 19	41	Mar 19	41	Mar 19	41	Mar 19	41	Mar 19	41	Mar 19	41	Mar 19	41	Mar 19	41	Mar 19	41	Mar 19	41
INSTANTANEOUS PEAK FLOW			2960	May 30	2960	May 30	2960	May 30	2960	May 30	2960	May 30	2960	May 30	2960	May 30	2960	May 30	2960	May 30	2960	May 30	2960	May 30	2960	May 30	2960
INSTANTANEOUS PEAK STAGE			6.53	May 30	6.53	May 30	6.53	May 30	6.53	May 30	6.53	May 30	6.53	May 30	6.53	May 30	6.53	May 30	6.53	May 30	6.53	May 30	6.53	May 30	6.53	May 30	6.53
ANNUAL RUNOFF (AC-FT)	63900	185900	84450																								
10 PERCENT EXCEEDS	150	986	195																								
50 PERCENT EXCEEDS	64	64	66																								
90 PERCENT EXCEEDS	41	45	35																								

a-Also occurred Mar 23-25, Apr 2-4, and 15, 16
b-Maximum gage height, 11.45 ft, Jan 13, 1993, backwater from ice.

PLATTE RIVER BASIN

06725500 MIDDLE BOULDER CREEK AT NEDERLAND, CO

LOCATION.--Lat 39°57'42", long 105°30'14", in NE¹/4SE¹/4 sec.13, T.1 S., R.73 W., Boulder County, Hydrologic Unit 10190005, on left bank at Nederland just downstream from North Beaver Creek and 1,000 ft upstream from Barker Reservoir.

DRAINAGE AREA.--36.2 mi².

PERIOD OF RECORD.--June 1907 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1730: Drainage area.

GAGE.--Water-stage recorder and compound sharp-crested weir. Datum of gage is 8,186.0 ft above sea level, Public Service Co. datum. Prior to Mar. 18, 1909, at datum 4.0 ft, lower. Mar. 18, 1909 to Apr. 23, 1952, at datum 2.5 ft, lower than present datum.

REMARKS.--Estimated daily discharges: Nov. 27-28, Dec. 12, Jan. 1-3, 8-9, 22-23, Feb. 27, Mar. 13, 27, Apr. 17-18, and May 8-9. Records good except for estimated daily discharges, which are fair. No diversion above station. Flow regulated at times by Jasper Lake, capacity, 326 acre-ft. North Beaver Creek entered Middle Boulder Creek downstream from station June 1 to Dec. 31, 1907, March 1911 to Dec. 31, 1916.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	9.5	6.5	3.2	4.5	4.3	6.5	20	158	315	171	50
2	13	9.8	6.7	3.4	4.5	4.1	6.3	25	185	305	151	47
3	12	8.5	6.5	3.5	4.3	4.2	6.5	29	230	315	143	46
4	12	7.5	6.5	3.7	4.3	4.1	7.9	27	242	266	139	44
5	12	8.2	6.3	3.5	4.1	4.1	8.3	30	307	234	141	43
6	14	8.9	6.3	3.7	4.3	4.1	9.1	33	391	286	139	52
7	14	8.3	6.1	4.5	4.3	4.3	10	34	388	350	136	69
8	16	8.1	5.5	4.5	4.3	4.3	13	31	338	375	142	69
9	15	7.7	5.7	4.5	4.3	4.3	13	27	274	398	147	62
10	14	8.7	7.9	4.7	3.7	4.5	11	29	222	431	130	54
11	14	8.5	5.9	4.9	4.5	5.5	9.8	33	215	446	132	53
12	14	8.3	5.1	4.7	5.5	5.3	11	37	279	460	139	46
13	13	7.5	4.9	4.7	4.5	4.9	12	40	364	439	134	42
14	12	5.3	4.9	4.7	4.7	5.3	14	42	431	434	118	40
15	12	5.3	4.9	4.9	4.9	6.1	12	56	556	396	102	36
16	12	7.9	4.5	4.8	4.5	6.9	11	74	516	362	95	30
17	12	6.7	4.3	4.7	3.9	7.3	12	80	480	351	92	28
18	11	6.9	4.5	4.5	3.5	7.5	13	77	493	331	97	28
19	14	6.9	4.6	4.3	3.4	7.1	11	93	452	312	111	31
20	14	6.9	4.5	4.1	3.9	7.3	11	102	456	328	110	31
21	12	7.1	4.5	3.9	4.3	7.5	10	110	488	325	104	34
22	12	6.1	4.5	3.7	4.7	8.5	10	127	474	295	104	30
23	11	6.7	4.7	3.2	4.9	7.9	10	114	419	252	95	28
24	11	6.8	4.9	3.0	4.7	7.3	10	93	384	229	90	28
25	10	6.5	5.1	3.0	4.7	6.7	9.5	85	355	233	93	26
26	10	6.1	5.1	3.2	4.7	6.3	9.8	82	365	234	79	26
27	10	5.5	5.3	3.4	4.5	6.7	11	82	385	222	74	26
28	9.8	5.1	5.5	3.5	4.5	6.1	14	78	425	209	69	26
29	9.7	4.9	5.3	3.7	---	5.9	18	89	420	194	65	28
30	9.8	5.9	5.3	4.1	---	6.1	20	118	349	194	61	29
31	6.3	---	5.5	4.3	---	6.2	---	132	---	192	54	---
TOTAL	373.6	216.1	167.8	124.5	122.9	180.7	330.7	2029	11041	9713	3457	1182
MEAN	12.1	7.20	5.41	4.02	4.39	5.83	11.0	65.5	368	313	112	39.4
MAX	16	9.8	7.9	4.9	5.5	8.5	20	132	556	460	171	69
MIN	6.3	4.9	4.3	3.0	3.4	4.1	6.3	20	158	192	54	26
AC-FT	741	429	333	247	244	358	656	4020	21900	19270	6860	2340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 1995, BY WATER YEAR (WY)

	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955
MEAN	17.7	11.4	7.11	5.41	5.04	6.44	23.0	124	240	135	53.0	25.0																																					
MAX	47.2	23.1	12.6	8.77	8.42	15.4	57.5	251	399	326	118	65.2																																					
(WY)	1962	1926	1962	1960	1962	1910	1946	1958	1918	1907	1947	1961																																					
MIN	7.74	5.43	3.97	2.00	2.75	3.46	6.67	62.0	68.6	26.4	14.0	10.1																																					
(WY)	1989	1953	1954	1937	1981	1944	1944	1908	1925	1934	1934	1944																																					

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1907 - 1995

ANNUAL TOTAL	16930.6	28938.3
ANNUAL MEAN	46.4	79.3
HIGHEST ANNUAL MEAN		83.2
LOWEST ANNUAL MEAN		26.2
HIGHEST DAILY MEAN	308 Jun 1	556 Jun 15
LOWEST DAILY MEAN	4.2 Feb 19	a 3.0 Jan 24
ANNUAL SEVEN-DAY MINIMUM	4.4 Feb 15	3.3 Jan 22
INSTANTANEOUS PEAK FLOW		593 Jun 15
INSTANTANEOUS PEAK STAGE		3.56 Jun 15
ANNUAL RUNOFF (AC-FT)	33580	57400
10 PERCENT EXCEEDS	185	315
50 PERCENT EXCEEDS	12	16
90 PERCENT EXCEEDS	5.1	4.3

a-Also occurred Jan 25.

b-Datum then in use, by computation of peak flow over compound weir.

06726900 BUMMERS GULCH NEAR EL VADO, CO

LOCATION.--Lat 40°00'42", long 105°20'53", in NE¹/4NW¹/4 sec.33, T.1 N., R.71 W., Boulder County, Hydrologic Unit 10190005, on left bank, 0.8 mi north of Highway 119 on Sugarloaf Road, 0.1 mi south of service road to Boulder Filtration Plant, 0.65 mi upstream from mouth, and 3.7 mi from Boulder County courthouse.

DRAINAGE AREA.--3.87 mi².

PERIOD OF RECORD.--July 1983 to March 1995 (Discontinued).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,270 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 8 to Jan. 10. Records fair except for estimated daily discharges which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 26 ft³/s, Aug. 11, 1990, gage height, 3.39 ft, no flow, July 26, 28, 1989, and Aug. 17, 18, 26, 27, 1994.

EXTREMES FOR CURRENT YEAR--Maximum discharge, 0.42 ft³/s at 1715 Mar. 10, gage height, 2.51 ft; minimum daily, .04 ft³/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.18	.20	.20	.16	.23	---	---	---	---	---	---
2	.08	.17	.20	.20	.16	.23	---	---	---	---	---	---
3	.09	.20	.20	.20	.15	.22	---	---	---	---	---	---
4	.11	.22	.20	.20	.14	.21	---	---	---	---	---	---
5	.12	.23	.20	.20	.14	.20	---	---	---	---	---	---
6	.13	.22	.20	.20	.16	.22	---	---	---	---	---	---
7	.14	.19	.20	.20	.17	.24	---	---	---	---	---	---
8	.16	.19	.20	.20	.17	.23	---	---	---	---	---	---
9	.14	.18	.20	.20	.16	.26	---	---	---	---	---	---
10	.13	.18	.20	.20	.17	.29	---	---	---	---	---	---
11	.12	.18	.20	.16	.17	.30	---	---	---	---	---	---
12	.11	.18	.19	.16	.17	.28	---	---	---	---	---	---
13	.11	.18	.18	.16	.17	.25	---	---	---	---	---	---
14	.13	.18	.18	.16	.23	.25	---	---	---	---	---	---
15	.13	.18	.17	.17	.25	.24	---	---	---	---	---	---
16	.16	.30	.17	.17	.19	.24	---	---	---	---	---	---
17	.19	.27	.17	.15	.18	.26	---	---	---	---	---	---
18	.18	.25	.17	.17	.19	.24	---	---	---	---	---	---
19	.16	.22	.17	.17	.20	.22	---	---	---	---	---	---
20	.16	.21	.17	.17	.22	.21	---	---	---	---	---	---
21	.15	.20	.17	.14	.22	.21	---	---	---	---	---	---
22	.15	.20	.17	.13	.22	.20	---	---	---	---	---	---
23	.15	.20	.17	.12	.22	.19	---	---	---	---	---	---
24	.13	.20	.17	.13	.22	.19	---	---	---	---	---	---
25	.15	.20	.17	.16	.22	.17	---	---	---	---	---	---
26	.16	.20	.18	.17	.21	.19	---	---	---	---	---	---
27	.16	.20	.19	.15	.22	.20	---	---	---	---	---	---
28	.17	.20	.20	.14	.23	.20	---	---	---	---	---	---
29	.19	.20	.20	.14	---	.23	---	---	---	---	---	---
30	.19	.20	.20	.15	---	.24	---	---	---	---	---	---
31	.17	---	.20	.16	---	.23	---	---	---	---	---	---
TOTAL	4.36	6.11	5.79	5.23	5.31	7.07	---	---	---	---	---	---
MEAN	.14	.20	.19	.17	.19	.23	---	---	---	---	---	---
MAX	.19	.30	.20	.20	.25	.30	---	---	---	---	---	---
MIN	.04	.17	.17	.12	.14	.17	---	---	---	---	---	---
AC-FT	8.6	12	11	10	11	14	---	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

MEAN	.30	.33	.29	.27	.29	.47	1.25	1.09	.67	.34	.22	.19
MAX	.98	.65	.43	.47	.45	.79	2.64	3.68	1.44	1.02	.56	.40
(WY)	1984	1985	1992	1985	1984	1992	1984	1984	1987	1987	1991	1987
MIN	.087	.14	.14	.17	.19	.23	.34	.35	.24	.019	.032	.034
(WY)	1990	1990	1990	1995	1995	1995	1991	1989	1989	1989	1989	1994

06727000 BOULDER CREEK NEAR ORODELL, CO

LOCATION.--Lat 40°00'23", long 105°19'49", in NE¹/4SW¹/4 sec.34, T.1 N., R.71 W., Boulder County, Hydrologic Unit 10190005, on left bank along State Highway 119, 0.7 mi southwest of old Orodell, 1.1 mi upstream from Fourmile Creek, and 2.9 mi southwest of courthouse in Boulder.

DRAINAGE AREA.--102 mi².

PERIOD OF RECORD.--August to October 1887, April to October 1888, October 1906 to November 1914, March 1916 to current year. Monthly discharge only for some periods, published in WSP 1310. Figures of daily discharge for Feb. 3-10, 17-25, 1912, published in WSP 326, have been found to be unreliable and should not be used. Published as North Boulder Creek, Colorado 1887-88 and as "at Orodell" March 1907 to December 1916.

REVISED RECORDS.--WSP 1310: 1941(M). WSP 1560: 1914(M). WSP 1730: Drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,826 ft above sea level, from topographic map. Prior to Sept. 1, 1907, nonrecording gage, and Sept. 1, 1907 to May 11, 1917, water-stage recorder, at sites 1.1 mi downstream, just upstream from Fourmile Creek, at different datums.

REMARKS.--Estimated daily discharges: Nov. 17, 20-28, Dec. 3, 5-7, 10-29, 31, Jan. 1-9, 12-25, 28-31, Feb. 3, 5-6, 8-21, 23-25, Mar. 1-9, and July 24. Records good except for estimated daily discharges, which are fair. Flow regulated by Barker Reservoir, capacity, 11,500 acre-ft. Low flow during non-irrigation season regulated by Orodell powerplant 1,500 ft upstream from station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Outstanding floods are known to have occurred in June 1864, May 1876, June 1894, and June 1914, stages and discharges unknown.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	42	9.4	17	15	16	18	80	269	461	213	81
2	33	6.2	35	15	13	10	19	90	244	421	208	75
3	33	20	22	17	14	16	18	114	245	441	192	72
4	41	15	23	10	14	15	20	100	220	383	183	69
5	42	21	28	14	14	16	22	116	216	306	180	64
6	38	17	22	14	9.2	16	18	128	217	330	180	69
7	41	18	25	16	12	16	6.2	124	232	416	170	71
8	50	26	26	14	13	16	13	112	257	468	170	76
9	45	18	25	16	3.9	15	19	100	290	503	168	78
10	47	19	26	15	23	11	27	98	250	582	160	83
11	41	25	21	15	18	20	29	101	239	590	154	83
12	34	19	21	15	18	14	27	99	241	606	155	70
13	34	18	21	16	17	12	32	93	239	580	163	63
14	36	18	16	15	17	17	37	90	233	601	156	54
15	37	21	16	15	18	18	29	95	258	521	135	43
16	38	16	26	14	17	19	28	126	560	480	110	29
17	38	17	14	15	14	21	28	166	624	444	96	29
18	36	15	15	15	7.6	15	28	188	618	435	87	41
19	37	15	21	15	18	13	32	221	574	389	108	53
20	44	15	20	11	17	17	30	220	596	394	116	56
21	41	16	17	15	16	16	28	206	735	421	150	65
22	39	17	16	9.6	17	21	27	192	770	370	176	72
23	28	19	15	13	16	20	25	175	671	330	175	61
24	25	21	20	13	13	17	26	161	599	257	159	57
25	20	23	15	13	18	13	29	185	526	253	148	55
26	20	22	16	12	17	17	38	202	534	264	146	59
27	19	29	18	14	4.2	17	33	246	518	243	146	56
28	18	3.1	15	15	23	17	40	248	571	213	137	49
29	18	2.4	16	15	---	13	53	274	689	207	121	47
30	23	2.0	16	13	---	20	69	328	573	236	102	41
31	19	---	16	14	---	19	---	310	---	215	87	---
TOTAL	1048	535.7	612.4	440.6	416.9	503	848.2	4988	12808	12360	4651	1821
MEAN	33.8	17.9	19.8	14.2	14.9	16.2	28.3	161	427	399	150	60.7
MAX	50	42	35	17	23	21	69	328	770	606	213	83
MIN	18	2.0	9.4	9.6	3.9	10	6.2	80	216	207	87	29
AC-FT	2080	1060	1210	874	827	998	1680	9890	25400	24520	9230	3610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 1995, BY WATER YEAR (WY)

	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
MEAN	27.5	26.1	28.4	26.1	25.4	29.0	51.3	150	317	217	91.8	46.3																																
MAX	83.4	96.0	83.8	62.4	60.4	84.2	158	307	813	566	210	126																																
(WY)	1924	1924	1924	1924	1924	1922	1926	1914	1921	1957	1965	1938																																
MIN	5.84	5.33	5.91	3.84	2.57	4.50	13.8	60.1	113	65.1	34.9	12.4																																
(WY)	1965	1935	1957	1911	1933	1911	1989	1981	1981	1934	1934	1964																																

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1907 - 1995

ANNUAL TOTAL	21880.9	41032.8	
ANNUAL MEAN	59.9	86.1	
HIGHEST ANNUAL MEAN		146	
LOWEST ANNUAL MEAN		38.9	
HIGHEST DAILY MEAN	262 Jun 2	770 Jun 22	1180 Jun 7 1921
LOWEST DAILY MEAN	2.0 Nov 30	2.0 Nov 30	a 1.0 Jan 29 1933
ANNUAL SEVEN-DAY MINIMUM	13 Nov 25	11 Feb 3	b 1.0 Feb 16 1933
INSTANTANEOUS PEAK FLOW		830 Jun 21	b 2500 Jun 6 1921
INSTANTANEOUS PEAK STAGE		c 3.64 Jun 21	4.31 Jun 6 1921
ANNUAL RUNOFF (AC-FT)	43400	81390	62390
10 PERCENT EXCEEDS	159	330	229
50 PERCENT EXCEEDS	34	32	43
90 PERCENT EXCEEDS	16	14	11

a-Also occurred Feb 1-3, 16-24, 1933.

b-From rating curve extended above 1200 ft³/s.

c-Maximum gage-height, 3.71 ft, occurred Jun 29.

06727500 FOURMILE CREEK AT ORODELL, CO

LOCATION.--Lat 40°01'08", long 105°19'32", in NW¹/4SE¹/4 sec.27, T.1 N., R.71 W., Boulder County, Hydrologic Unit 10190005, on right bank 30 ft downstream from private bridge, 0.3 mi upstream from Highway 119 and mouth, and 2.5 mi west of courthouse in Boulder.

DRAINAGE AREA.--24.1 mi².

PERIOD OF RECORD.--April 1947 to September 1953, April 1978 to September 1982 (peak stage and discharge only), July 1983 to March 1995 (Discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 5,760 ft above sea level, from topographic map. April 1, 1947 to September 30, 1953, water-stage recorder 500 feet downstream; April 1, 1978 to September 1982, crest-stage gage 200 feet downstream, at different datums.

REMARKS.--Estimated daily discharges: Dec. 4 to Feb. 21. Records fair except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--17 years (water years 1947-53, 1983-94), 6.15 ft³/s, 4,460 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 256 ft³/s, June 6, 1949, gage height, 3.66 ft, site and datum then in use, and June 1, 1991, gage height, 4.38 ft, present site and datum; maximum gage height, 4.62 ft, June 9, 1989 (backwater from debris); no flow, many days during 1948, 1988, and 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.4 ft³/s at 1315 Mar. 31, gage height, 2.46 ft; minimum daily, 0.28 ft³/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	.58	.76	.58	.54	.96	---	---	---	---	---	---
2	.46	.58	.70	.56	.54	.96	---	---	---	---	---	---
3	.50	.80	.64	.55	.54	1.0	---	---	---	---	---	---
4	.52	.75	.64	.55	.54	1.1	---	---	---	---	---	---
5	.59	.66	.64	.55	.54	1.0	---	---	---	---	---	---
6	.61	.71	.64	.55	.62	.94	---	---	---	---	---	---
7	.53	.68	.64	.59	.68	1.0	---	---	---	---	---	---
8	.58	.76	.64	.64	.72	1.2	---	---	---	---	---	---
9	.64	.77	.64	.64	.75	1.2	---	---	---	---	---	---
10	.61	.72	.64	.56	.78	1.4	---	---	---	---	---	---
11	.52	.70	.62	.54	.81	1.6	---	---	---	---	---	---
12	.51	.68	.62	.53	.84	1.7	---	---	---	---	---	---
13	.53	.70	.62	.52	.87	1.4	---	---	---	---	---	---
14	.53	.91	.62	.54	.92	1.2	---	---	---	---	---	---
15	.58	.74	.62	.55	1.0	1.3	---	---	---	---	---	---
16	.80	.73	.60	.56	1.1	1.4	---	---	---	---	---	---
17	1.1	.73	.60	.56	1.2	1.8	---	---	---	---	---	---
18	.99	.73	.60	.56	1.2	1.8	---	---	---	---	---	---
19	.84	.73	.60	.56	1.1	1.8	---	---	---	---	---	---
20	.78	.77	.60	.56	1.1	1.5	---	---	---	---	---	---
21	.72	.78	.58	.56	1.1	1.5	---	---	---	---	---	---
22	.77	.78	.58	.56	1.1	1.8	---	---	---	---	---	---
23	.83	.78	.58	.56	1.1	1.7	---	---	---	---	---	---
24	.76	.81	.58	.56	1.0	1.4	---	---	---	---	---	---
25	.70	.84	.58	.56	1.1	1.4	---	---	---	---	---	---
26	.65	.83	.58	.56	1.1	1.5	---	---	---	---	---	---
27	.55	.78	.58	.56	1.1	1.3	---	---	---	---	---	---
28	.54	.78	.58	.56	.98	1.4	---	---	---	---	---	---
29	.68	.78	.58	.56	---	1.2	---	---	---	---	---	---
30	.72	.78	.58	.56	---	1.3	---	---	---	---	---	---
31	.76	---	.58	.56	---	1.2	---	---	---	---	---	---
TOTAL	20.18	22.37	19.06	17.41	24.97	41.96	---	---	---	---	---	---
MEAN	.65	.75	.61	.56	.89	1.35	---	---	---	---	---	---
MAX	1.1	.91	.76	.64	1.2	1.8	---	---	---	---	---	---
MIN	.28	.58	.58	.52	.54	.94	---	---	---	---	---	---
AC-FT	40	44	38	35	50	83	---	---	---	---	---	---

06730200 BOULDER CREEK AT NORTH 75TH STREET NEAR BOULDER, CO

LOCATION.--Lat 40°03'06", long 105°10'42", in SE¹/₄NW¹/₄ sec.13, T.1 N., R.70 W., Boulder County, Hydrologic Unit 1019005, on left bank, 50 ft upstream from bridge on North 75th Street, 0.2 mi downstream from Boulder feeder ditch, and 6 mi northeast of Boulder.

DRAINAGE AREA.--304 mi².

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Elevation of gage is 5,106 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Flow is partially regulated by Barker Reservoir, and affected by Boulder feeder ditch, Boulder sewage treatment plant, and Public Service power plant. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	43	27	26	37	48	35	131	881	854	162	91
2	54	55	51	36	35	40	34	135	734	761	149	147
3	49	46	58	40	35	40	36	189	706	764	163	145
4	49	49	56	73	33	34	36	199	595	668	151	143
5	47	51	53	35	36	40	35	228	535	525	144	145
6	43	47	54	36	35	50	35	266	492	476	144	146
7	38	43	50	39	34	41	36	269	457	528	138	151
8	40	48	55	36	40	39	27	226	613	570	140	158
9	44	47	54	44	36	37	31	183	958	576	140	149
10	47	49	48	47	44	35	49	166	711	664	139	142
11	44	48	57	42	45	36	42	171	600	707	141	131
12	37	42	51	41	38	34	38	175	541	730	146	113
13	36	55	59	41	42	36	35	164	494	676	160	109
14	34	62	52	39	47	34	34	157	444	712	160	101
15	38	58	53	38	48	34	30	149	523	622	152	87
16	37	53	54	38	46	34	30	198	1060	577	140	77
17	50	53	49	40	56	36	53	1040	1290	513	143	74
18	40	50	48	39	43	34	51	701	1420	497	136	75
19	36	54	44	40	38	32	75	611	1340	441	143	80
20	41	52	44	39	44	32	49	594	1310	451	97	89
21	42	49	47	38	39	32	69	519	1270	461	117	112
22	37	41	40	36	38	32	67	443	1250	399	157	113
23	34	44	38	37	37	33	52	433	1140	343	162	106
24	34	41	28	37	39	31	52	476	981	260	159	97
25	33	47	46	31	39	29	52	538	876	222	133	94
26	40	48	36	35	41	31	111	617	834	214	111	94
27	37	51	38	32	38	30	70	986	835	197	106	90
28	35	35	39	33	37	29	67	918	888	191	101	84
29	32	27	38	36	---	30	96	1020	1240	221	86	88
30	39	26	34	36	---	32	157	1380	1030	248	72	88
31	40	---	32	37	---	34	---	1130	---	198	64	---
TOTAL	1254	1414	1433	1197	1120	1089	1584	14412	26048	15266	4156	3319
MEAN	40.5	47.1	46.2	38.6	40.0	35.1	52.8	465	868	492	134	111
MAX	54	62	59	73	56	50	157	1380	1420	854	163	158
MIN	32	26	27	26	33	29	27	131	444	191	64	74
AC-FT	2490	2800	2840	2370	2220	2160	3140	28590	51670	30280	8240	6580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1995, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
MEAN	41.4	52.7	49.8	47.0	45.8	50.3	75.0	182	266	234	130	72.4
MAX	53.9	78.8	74.9	68.3	59.0	76.8	145	465	868	492	170	111
(WY)	1988	1992	1989	1987	1987	1987	1987	1995	1995	1995	1993	1995
MIN	31.5	37.7	36.1	37.6	34.3	31.2	37.4	114	127	154	95.5	50.8
(WY)	1987	1993	1988	1988	1992	1989	1989	1991	1992	1988	1991	1992

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1987 - 1995
ANNUAL TOTAL	36849.0	72292	
ANNUAL MEAN	101	198	104
HIGHEST ANNUAL MEAN			198
LOWEST ANNUAL MEAN			85.5
HIGHEST DAILY MEAN	354	1420	1420
LOWEST DAILY MEAN	26	^a 26	20
ANNUAL SEVEN-DAY MINIMUM	35	30	23
INSTANTANEOUS PEAK FLOW		1950	1950
INSTANTANEOUS PEAK STAGE		7.85	7.85
ANNUAL RUNOFF (AC-FT)	73090	143400	75400
10 PERCENT EXCEEDS	235	639	214
50 PERCENT EXCEEDS	59	52	59
90 PERCENT EXCEEDS	41	34	35

a-Also occurred Jan 1.

06730500 BOULDER CREEK AT MOUTH NEAR LONGMONT, CO

LOCATION.--Lat 40°09'08", long 105°00'52", in NW¹/4SW¹/4 sec.9, T.2 N., R.68 W., Weld County, Hydrologic Unit 10190005, on left bank 0.6 mi upstream from mouth, 1.0 mi downstream from State Highway 254, and 4.8 mi southeast of Longmont.

DRAINAGE AREA.--439 mi².

PERIOD OF RECORD.--March 1927 to September 1949, May 1951 to September 1955, October 1978 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,860 ft above sea level, from topographic map. Prior to June 10, 1939, at site 0.8 mi upstream at different datum. June 10, 1939, to Sept. 30, 1949, at site 1.0 mi upstream, at different datum. May 1, 1951, to Sept. 30, 1955, at site 1.4 mi upstream, at different datum.

REMARKS.--Estimated daily discharge: Dec. 31 to Jan. 2, Jan. 10-20, Mar. 13 to May 2, May 18-31, and Sept. 22-30. Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain, transbasin, and storage diversions, diversions for irrigation, water-treatment plants, and return flows from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	23	53	63	50	59	46	123	945	891	23	6.8
2	3.4	39	54	63	52	57	46	110	766	791	14	6.4
3	2.1	33	82	65	47	49	46	140	800	770	14	6.6
4	2.5	54	73	59	47	51	46	186	786	722	13	6.7
5	9.5	46	71	58	47	49	46	182	706	531	9.8	6.0
6	21	55	73	58	50	56	46	208	547	456	8.8	6.5
7	47	41	72	55	47	64	46	214	443	480	9.2	7.1
8	65	39	71	55	48	55	47	190	589	452	9.1	7.9
9	68	52	73	56	55	54	49	145	1210	408	7.9	9.1
10	74	46	70	56	45	50	50	127	972	448	7.2	10
11	75	53	71	56	71	47	50	134	791	496	5.7	10
12	68	47	70	54	72	47	49	148	663	496	1.9	8.7
13	64	48	74	54	70	46	48	137	481	429	2.0	7.9
14	64	64	71	54	78	46	46	129	408	449	5.6	6.5
15	58	73	70	54	95	46	44	108	497	424	10	4.4
16	43	54	71	52	76	46	45	118	911	366	5.2	5.6
17	49	50	75	52	60	46	46	1010	1150	302	3.0	13
18	66	60	64	50	65	46	47	880	1260	282	4.1	25
19	46	78	70	49	54	46	64	700	1280	241	13	40
20	35	76	65	49	57	46	54	640	1250	231	5.1	56
21	41	80	68	53	55	46	60	600	1220	240	5.1	117
22	40	71	63	54	49	46	58	520	1180	192	33	115
23	25	68	63	58	49	46	56	460	1130	147	39	100
24	23	68	63	53	49	46	52	520	996	80	10	94
25	22	71	63	51	47	46	52	560	880	43	8.0	90
26	23	71	59	49	49	47	60	720	808	28	4.7	90
27	23	69	63	47	55	48	73	980	762	21	7.8	84
28	21	72	65	49	45	48	62	1050	772	6.0	5.6	78
29	22	55	62	51	---	48	64	1150	1040	4.5	6.8	80
30	22	51	64	52	---	48	76	1500	1030	15	7.3	80
31	23	---	62	53	---	48	---	1200	---	9.8	7.2	---
TOTAL	1147.4	1707	2088	1682	1584	1523	1574	14889	26273	10451.3	306.1	1178.2
MEAN	37.0	56.9	67.4	54.3	56.6	49.1	52.5	480	876	337	9.87	39.3
MAX	75	80	82	65	95	64	76	1500	1280	891	39	117
MIN	1.9	23	53	47	45	46	44	108	408	4.5	1.9	4.4
AC-FT	2280	3390	4140	3340	3140	3020	3120	29530	52110	20730	607	2340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1995, BY WATER YEAR (WY)

MEAN	30.6	39.7	46.0	49.8	48.8	49.7	93.1	178	184	46.0	21.3	23.4
MAX	127	99.8	93.8	104	120	148	581	1101	976	367	143	440
(WY)	1985	1994	1939	1980	1980	1983	1942	1942	1947	1983	1979	1938
MIN	.70	.48	1.16	2.94	2.75	2.58	1.15	1.06	1.22	1.09	.55	.54
(WY)	1955	1955	1940	1935	1935	1935	1954	1955	1954	1954	1954	1954

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1927 - 1995

ANNUAL TOTAL	21034.31	64403.0										
ANNUAL MEAN	57.6	176								67.8		
HIGHEST ANNUAL MEAN										220		1983
LOWEST ANNUAL MEAN										3.93		1954
HIGHEST DAILY MEAN	297	Jun 3	1500	May 30	2300						Sep 3	1938
LOWEST DAILY MEAN	.91	Aug 18	a 1.9	Oct 1	b .00						Dec 9	1934
ANNUAL SEVEN-DAY MINIMUM	2.1	Sep 28	4.5	Aug 12	c .00						Apr 11	1935
INSTANTANEOUS PEAK FLOW			2300	May 17	4410						Sep 3	1938
INSTANTANEOUS PEAK STAGE			5.29	May 17	6.94						Sep 3	1938
ANNUAL RUNOFF (AC-FT)	41720	127700	49130									
10 PERCENT EXCEEDS	100	678	127									
50 PERCENT EXCEEDS	63	55	31									
90 PERCENT EXCEEDS	7.7	8.4	1.9									

a-Also occurred Aug 12.

b-No flow at times many years.

c-Site and datum then in use, from rating curve extended above 340 ft³/s, on basis of slope-area measurement of peak flow.

06731000 ST. VRAIN CREEK AT MOUTH, NEAR PLATTEVILLE, CO

LOCATION.--Lat 40°15'29", long 104°52'45", in SE¹/₄NW¹/₄ sec.3, T.3 N., R.67 W., Weld County, Hydrologic Unit 10190005, on right bank 140 ft downstream from bridge on county road, 1.3 mi upstream from mouth, and 4.2 mi northwest of Platteville.

DRAINAGE AREA.--976 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1904 to December 1906, April to December 1915, March 1927 to current year. Prior to October 1933, monthly discharge only, published in WSP 1310.

REVISED RECORDS.--WSP 956: 1938(M). WSP 1440: 1934, 1935(M). WSP 1730: 1958, drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,740 ft above sea level, from topographic map. See WSP 1730 for history of changes prior to Apr. 25, 1960.

REMARKS.--Estimated daily discharges: Jan. 3-10, and Feb. 13-17. Records good. Diversions upstream from station for irrigation of about 177,000 acres. Flow partly regulated by many small reservoirs upstream from station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	91	114	83	107	114	95	372	3680	1810	335	289
2	136	96	117	106	108	113	95	340	2990	1630	292	298
3	135	99	131	122	106	109	96	289	2810	1600	258	309
4	139	111	129	124	104	109	100	316	2450	1570	255	297
5	141	108	126	125	100	107	97	288	2100	1400	254	292
6	139	107	126	126	105	117	92	309	2060	1260	246	293
7	145	102	128	126	104	126	92	360	2010	1280	232	309
8	135	102	127	128	102	118	89	362	2200	1320	218	331
9	130	114	124	131	104	119	83	297	3070	1300	209	350
10	134	111	130	131	102	114	99	255	3590	1400	292	369
11	138	112	127	129	108	110	116	252	2600	1470	299	377
12	131	109	126	120	96	108	108	265	2200	1430	309	358
13	127	108	128	117	110	108	101	272	1970	1350	293	272
14	126	123	129	116	116	106	94	250	1850	1290	313	227
15	130	129	124	112	118	104	87	301	1910	1270	344	219
16	122	122	129	112	120	103	83	312	2280	1120	326	210
17	128	114	129	112	124	103	92	720	2680	998	294	202
18	141	112	122	108	133	102	113	2390	2790	902	298	189
19	124	125	128	106	128	101	127	1880	2590	809	318	239
20	113	128	122	112	126	98	119	1910	2100	768	319	283
21	112	131	126	107	119	100	117	1830	2140	795	310	400
22	114	128	126	105	114	96	124	1530	2210	667	351	376
23	105	122	123	105	111	94	105	1300	2220	557	375	342
24	100	126	127	109	109	93	97	1340	2020	435	370	294
25	96	126	121	103	104	91	93	1480	1770	342	366	274
26	94	127	115	104	108	92	122	1680	1680	288	338	246
27	93	125	116	103	110	90	145	2160	1610	242	361	223
28	91	122	119	104	102	93	117	2980	1660	187	340	213
29	89	118	115	110	---	93	159	3170	2040	171	329	202
30	88	114	119	107	---	99	294	4350	2210	203	312	205
31	90	---	116	112	---	101	---	4820	---	258	294	---
TOTAL	3708	3462	3839	3515	3098	3231	3351	38380	69490	30122	9450	8488
MEAN	120	115	124	113	111	104	112	1238	2316	972	305	283
MAX	145	131	131	131	133	126	294	4820	3680	1810	375	400
MIN	88	91	114	83	96	90	83	250	1610	171	209	189
AC-FT	7350	6870	7610	6970	6140	6410	6650	76130	137800	59750	18740	16840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1995, BY WATER YEAR (WY)

	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	
MEAN	135	129	119	112	118	120	180	464	595	266	201	161																		
MAX	397	320	255	223	298	326	1100	2362	2619	972	653	1062																		
(WY)	1985	1970	1970	1980	1962	1983	1942	1980	1949	1995	1965	1938																		
MIN	25.5	31.2	27.9	24.4	30.2	28.3	25.1	43.8	56.7	50.4	41.0	22.7																		
(WY)	1935	1935	1935	1935	1935	1935	1935	1955	1954	1934	1940	1934																		

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1927 - 1995

ANNUAL TOTAL	66917	180134		
ANNUAL MEAN	183	494		218
HIGHEST ANNUAL MEAN				569
LOWEST ANNUAL MEAN				55.1
HIGHEST DAILY MEAN	772	Jun 3	4820	May 31
LOWEST DAILY MEAN	88	Oct 30	^a 83	Jan 1
ANNUAL SEVEN-DAY MINIMUM	91	Oct 26	91	Oct 26
INSTANTANEOUS PEAK FLOW			5190	May 30
INSTANTANEOUS PEAK STAGE			8.41	May 30
ANNUAL RUNOFF (AC-FT)	132700	357300		157600
10 PERCENT EXCEEDS	281	1790		351
50 PERCENT EXCEEDS	147	128		131
90 PERCENT EXCEEDS	117	99		56

a-Also occurred Apr 9, 16.

b-Site and datum then in use, from rating curve extended above 4700 ft³/s.

06731000 ST. VRAIN CREEK AT MOUTH, NEAR PLATTEVILLE, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS, TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT 03...	1120	134	1240	8.1	13.5	8.0	440	84	55	97
NOV 14...	1145	129	1300	8.4	5.5	13.2	460	86	60	110
DEC 09...	1330	164	1200	8.2	1.0	11.9	390	73	51	90
JAN 11...	1000	116	1250	8.1	2.5	11.1	420	79	55	95
FEB 14...	1125	83	1240	8.1	0.5	11.0	420	77	55	93
MAR 13...	1400	117	1270	8.3	12.5	10.2	430	77	57	100
APR 07...	1130	81	1250	8.2	12.5	9.7	400	76	52	100
MAY 04...	1200	337	823	7.9	10.5	8.8	270	56	32	62
18...	1045	2440	484	7.8	8.0	10.9	160	34	18	31
JUN 15...	0910	2360	381	7.9	14.5	8.6	130	28	15	23
28...	0915	1940	261	7.8	14.0	8.1	86	19	9.3	15
JUL 31...	1400	251	1090	7.9	17.0	7.2	390	78	48	84

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA ^A LINITY WAT DIS TOT FET FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
OCT 03...	6.0	--	360	37	1.1	7.9	818	0.08	4.1	0.13
NOV 14...	5.0	230	400	37	1.2	4.4	921	0.09	4.2	0.14
DEC 09...	7.9	219	320	49	1.2	8.0	810	0.09	4.6	2.5
JAN 11...	6.9	215	350	46	1.1	7.8	851	0.09	3.8	1.8
FEB 14...	7.4	215	350	38	1.0	8.2	830	0.07	3.9	2.0
MAR 13...	10	199	350	51	1.1	4.4	864	0.21	5.3	0.79
APR 07...	9.3	195	330	58	1.2	1.8	826	0.31	5.3	0.49
MAY 04...	4.9	139	210	28	0.8	9.2	539	0.08	2.6	0.49
18...	5.2	79	120	14	0.6	8.7	307	0.04	0.76	0.27
JUN 15...	2.2	68	94	9.1	0.4	11	247	0.03	0.59	0.15
28...	1.4	49	57	6.9	0.3	7.0	158	0.04	0.52	0.12
JUL 31...	4.2	151	350	26	0.8	11	756	0.10	3.0	0.12

A-Total Alkalinity, determined in field by fixed end-point titration method on filtered sample.

06731000 ST. VRAIN CREEK AT MOUTH, NEAR PLATTEVILLE, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT 03...	0.80	0.50	0.47	0.45	0.48	17	46	4.5	1.0
NOV 14...	0.90	0.50	0.63	0.56	0.55	30	62	4.6	1.2
DEC 09...	3.8	2.9	1.10	0.83	0.83	33	59	4.4	2.9
JAN 11...	3.1	2.5	0.87	0.68	0.67	38	85	4.7	1.1
FEB 14...	2.8	2.7	0.63	0.63	0.58	21	93	4.4	1.8
MAR 13...	1.9	1.4	1.2	0.92	0.87	48	86	4.9	1.9
APR 07...	1.8	1.2	1.0	0.88	0.84	41	120	5.1	3.8
MAY 04...	1.7	1.0	0.82	0.42	0.43	33	45	5.4	4.8
18...	1.8	0.90	0.47	0.09	0.07	150	49	8.3	7.3
JUN 15...	0.80	0.40	0.24	0.10	0.09	160	28	6.4	2.1
28...	0.60	0.30	0.22	0.06	0.06	46	20	4.7	1.4
JUL 31...	0.90	0.50	0.40	0.23	0.23	5	58	4.8	2.1

06733000 BIG THOMPSON RIVER AT ESTES PARK, CO

LOCATION.--Lat 40°22'42", long 105°30'48", in NW¹/₄NW¹/₄ sec.30, T.5 N., R.72 W., Larimer County, Hydrologic Unit 10190006, on right bank in Estes Park, 600 ft downstream from bridge on State Highways 7 and 66, 900 ft downstream from Black Canyon Creek, and 0.3 mi northwest of Estes powerplant. Station is upstream from Lake Estes.

DRAINAGE AREA.--137 mi².

PERIOD OF RECORD.--October 1946 to current year. Prior to October 1947, published as Thompson River at Estes Park.

GAGE.--Water-stage recorder with satellite telemetry, and Parshall flume with overflow weirs. Datum of gage is 7,492.5 ft above sea level (levels by U.S. Bureau of Reclamation). Prior to May 18, 1949, at site 740 ft downstream at different datum. May 18, 1949 to Mar. 22, 1951, at site 60 ft upstream at datum 1.2 ft, higher.

REMARKS.--Estimated daily discharges: Oct. 31 to Nov. 1, Nov. 5, 9-11, 14-15, Dec. 17 to Feb. 22, Mar. 5-10, 13, 20, 23, Mar. 27 to Apr. 1, June 14-16, and Aug. 30. Records good except for estimated daily discharges, which are poor. Diversion from Colorado River basin passed this station from Aug. 10, 1947 to Aug. 2, 1950. Small power developments and small diversions for irrigation and municipal use above station. Diversions upstream from station from Wind River to Lake Estes (bypassing this station), were 1,200 acre-ft during current year.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	21	12	13	10	12	14	38	333	681	312	114
2	30	23	13	13	10	6.4	10	44	410	754	274	107
3	31	22	12	13	10	7.6	11	50	507	769	256	109
4	32	22	12	12	10	8.7	11	42	642	637	253	104
5	32	31	11	12	10	12	11	47	709	569	252	99
6	37	22	12	12	10	9.1	12	54	828	676	238	106
7	36	21	11	12	10	11	13	52	802	823	236	104
8	35	22	11	12	10	13	15	50	703	845	243	104
9	34	20	7.2	12	11	14	17	44	678	878	253	99
10	34	19	7.1	12	11	13	15	44	508	945	241	93
11	33	19	7.3	11	11	13	13	51	438	1000	241	85
12	32	21	7.5	11	11	12	14	60	552	1010	260	77
13	31	19	7.7	11	11	11	14	61	842	957	243	70
14	30	15	9.7	11	11	11	16	66	1080	951	222	66
15	31	12	10	11	11	12	15	86	1340	770	189	61
16	31	21	10	11	11	13	16	126	1490	671	173	57
17	31	17	10	10	11	14	18	173	1390	639	163	54
18	30	15	10	10	11	14	17	159	1500	637	165	55
19	33	16	11	10	10	15	19	177	1090	634	167	68
20	30	16	11	10	10	12	17	193	1120	710	162	92
21	28	16	11	10	10	14	19	198	1200	564	159	100
22	27	13	12	10	10	14	17	221	1190	500	232	83
23	26	13	12	10	9.9	11	16	218	1090	473	212	72
24	25	14	12	10	10	12	18	196	941	412	194	75
25	24	15	12	10	11	9.6	19	183	840	380	186	68
26	25	13	12	10	10	11	20	178	835	374	170	63
27	25	7.2	13	10	9.9	11	20	188	838	364	154	59
28	23	8.1	13	10	9.6	10	25	181	950	347	148	57
29	23	8.5	13	10	---	10	33	229	1000	335	145	62
30	25	8.9	13	10	---	12	41	308	763	341	138	64
31	19	---	13	10	---	12	---	294	---	353	126	---
TOTAL	913	510.7	338.5	339	290.4	360.4	516	4011	26609	19999	6407	2427
MEAN	29.5	17.0	10.9	10.9	10.4	11.6	17.2	129	887	645	207	80.9
MAX	37	31	13	13	11	15	41	308	1500	1010	312	114
MIN	19	7.2	7.1	10	9.6	6.4	10	38	333	335	126	54
AC-FT	1810	1010	671	672	576	715	1020	7960	52780	39670	12710	4810

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1995, BY WATER YEAR (WY)

	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	42.2	27.1	16.6	12.3	11.9	14.6	40.3	242	563	330	145	68.7																																					
MAX	112	52.7	35.1	25.1	22.7	25.5	103	479	947	739	273	143																																					
(WY)	1962	1962	1948	1948	1962	1986	1962	1958	1949	1957	1983	1961																																					
MIN	22.2	15.6	9.68	4.89	5.77	8.39	17.2	112	191	112	66.7	37.4																																					
(WY)	1989	1965	1977	1977	1977	1977	1995	1968	1954	1977	1954	1988																																					

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1947 - 1995	
ANNUAL TOTAL	34420.2		62721.0			
ANNUAL MEAN	94.3		172		126	
HIGHEST ANNUAL MEAN					189	
LOWEST ANNUAL MEAN					63.3	
HIGHEST DAILY MEAN	634	Jun 1	1500	Jun 18	1520	Jun 17 1965
LOWEST DAILY MEAN	7.1	Dec 10	6.4	Mar 2	a 3.0	Jan 13 1977
ANNUAL SEVEN-DAY MINIMUM	8.1	Dec 9	8.1	Dec 9	b 3.2	Jan 10 1977
INSTANTANEOUS PEAK FLOW			1870		5500	
INSTANTANEOUS PEAK STAGE			6.80		6.89	
ANNUAL RUNOFF (AC-FT)	68270		124400		91640	
10 PERCENT EXCEEDS	333		677		387	
50 PERCENT EXCEEDS	30		25		36	
90 PERCENT EXCEEDS	12		10		11	

a-Also occurred Jan 14-16, 1977.

b-Caused by failure of Lawn Lake Dam, gage height, indeterminate; maximum natural discharge, 1870 ft³/s, Jun 18, 1995, gage height, 6.80 ft.

06734900 OLYMPUS TUNNEL AT LAKE ESTES, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°22'30", long 105°29'13", in SE¹/4NW¹/4 sec.29, T.5 N., R.72 W., Larimer County, Hydrologic Unit 10190006, at tunnel entrance at south end of Olympus Dam on Lake Estes, 1.9 mi east of Estes Park.

PERIOD OF RECORD.--September 1970 to current year.

REMARKS.--Tunnel is part of Colorado-Big Thompson project. Field data collected prior to 1974 water year available in district office. Records of discharge are estimated values.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
NOV 30...	0948	406	55	8.1	0.5	10.4	21	6.6	1.2	2.2
MAR 28...	1451	345	61	7.8	3.0	10.2	23	7.2	1.3	2.4
JUL 24...	1631	429	21	7.6	11.0	8.8	7	2.2	0.44	1.1

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
NOV 30...	0.2	0.7	24	2.7	0.5	0.1	6.2	38	35	0.05
MAR 28...	0.2	0.8	26	2.9	0.6	0.1	6.6	44	38	0.06
JUL 24...	0.2	0.3	8.1	1.4	0.3	0.1	4.0	12	15	0.02

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
NOV 30...	41.7	<0.01	0.07	<0.02	0.30	0.30	<0.01	<0.01	<0.01
MAR 28...	41.0	<0.01	0.07	0.03	--	<0.20	<0.01	<0.01	<0.01
JUL 24...	13.9	<0.01	0.08	0.03	--	<0.20	0.01	<0.01	<0.01

DATE	TIME	BARIIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM, DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
NOV 30...	0948	6	<0.5	10	2	<5	<3	<10	17
MAR 28...	1451	7	<0.5	<10	<1	<5	<3	<10	22
JUL 24...	1631	3	<0.5	10	<1	<5	<3	<10	77

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM, DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 30...	<10	<4	1	<10	<10	<1	37	<6	6
MAR 28...	<10	<4	<1	10	<10	1	43	<6	<3
JUL 24...	10	<4	9	<10	10	<1	11	<6	7

06735500 BIG THOMPSON RIVER NEAR ESTES PARK, CO

LOCATION.--Lat 40°22'35", long 105°29'06", in NE¹/4NE¹/4 sec.29, T.5 N., R.72 W., Larimer County, Hydrologic Unit 10190006, on right bank 100 ft upstream from Dry Gulch, 600 ft downstream from Olympus Dam, and 2.0 mi east of Estes Park.

DRAINAGE AREA.--155 mi². Area at site used Jan. 29, 1934, to Mar. 21, 1951, 162 mi².

PERIOD OF RECORD.--July 1930 to current year. Prior to October 1933, monthly discharges only, published in WSP 1310. Published as Thompson River near Estes Park 1934-47.

REVISED RECORDS.--WDR CO-76-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and Parshall flume. Datum of gage is 7,422.5 ft above sea level, (levels by U.S. Bureau of Reclamation). Prior to Jan. 29, 1934, nonrecording gage on highway bridge 1.5 mi downstream at different datum. Jan. 29, 1934, to Mar. 21, 1951, water-stage recorder at site 0.4 mi downstream at datum 10.5 ft, lower.

REMARKS.--Estimated daily discharges: Jan. 6 to Feb. 3. Records good. Low flow regulated by Lake Estes since Nov. 30, 1948. Diversion from Colorado River basin to Big Thompson River basin upstream from station through Alva B. Adams tunnel began Aug. 10, 1947 (see station 09013000 in Volume 2 for diversion during current year); since Apr. 15, 1953, this imported water has been diverted from Lake Estes through Olympus tunnel bypassing this station. Since May 17, 1955, part of the natural flow of Big Thompson River (292,000 acre-ft during current year) has also been diverted through Olympus tunnel and returned to the river downstream from the station at mouth of canyon, near Drake. Small power developments and small diversions for irrigation and municipal use upstream from station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 2,800 ft³/s, June 20, 1933, gage height, 4.0 ft, site and datum then in use, from rating curve extended above 460 ft³/s; no flow, Aug. 1 to Sept. 30, 1976 (all flow into Lake Estes diverted through Olympus tunnel after flood of July 31, 1976).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,030 ft³/s, July 13, gage height, 5.73 ft; minimum daily, 16 ft³/s, Jan. 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	27	27	23	17	22	25	27	126	238	392	74
2	50	27	28	23	17	20	24	52	125	178	348	74
3	54	28	27	23	17	20	25	56	126	227	299	73
4	66	27	27	22	19	20	24	52	184	239	284	76
5	65	26	29	22	20	19	24	52	196	133	283	74
6	65	26	27	24	21	19	24	78	224	132	283	77
7	63	26	27	22	20	19	24	77	416	160	264	76
8	65	28	28	22	20	20	24	78	309	270	263	73
9	62	26	28	21	19	20	24	77	210	293	267	76
10	62	27	23	21	20	19	25	78	244	320	286	75
11	62	27	23	19	20	19	26	78	134	418	123	74
12	63	27	23	20	21	19	24	78	130	985	123	75
13	62	27	25	21	21	19	24	77	234	1010	124	74
14	43	26	24	22	19	19	25	76	283	969	123	75
15	42	26	24	23	20	22	24	76	734	904	123	55
16	41	26	23	24	19	22	32	109	856	811	97	50
17	42	27	23	25	19	24	47	125	848	693	98	50
18	42	26	22	25	19	23	51	126	802	633	99	50
19	41	27	24	26	20	24	52	124	745	669	100	52
20	40	27	23	24	20	23	51	125	424	656	98	52
21	41	27	23	22	20	23	51	125	618	736	99	55
22	38	27	23	20	20	22	50	127	635	607	99	51
23	40	26	23	18	20	24	51	126	588	529	98	46
24	41	25	22	16	21	24	51	127	375	497	99	50
25	42	26	22	19	22	24	22	126	396	434	101	48
26	41	24	22	19	22	24	22	126	312	409	101	48
27	40	27	22	20	22	24	22	124	301	404	102	45
28	41	28	22	19	22	24	23	123	381	394	101	48
29	41	51	23	18	---	24	23	126	478	375	101	48
30	41	27	22	17	---	24	24	128	450	364	101	48
31	42	---	23	17	---	24	---	127	---	364	102	---
TOTAL	1529	822	752	657	557	673	938	3006	11884	15051	5181	1842
MEAN	49.3	27.4	24.3	21.2	19.9	21.7	31.3	97.0	396	486	167	61.4
MAX	66	51	29	26	22	24	52	128	856	1010	392	77
MIN	38	24	22	16	17	19	22	27	125	132	97	45
AC-FT	3030	1630	1490	1300	1100	1330	1860	5960	23570	29850	10280	3650
CAL YR 1994	TOTAL	20424.7	MEAN	56.0	MAX	136	MIN	9.7	AC-FT	40510		
WTR YR 1995	TOTAL	42892	MEAN	118	MAX	1010	MIN	16	AC-FT	85080		

06737500 HORSETOOTH RESERVOIR NEAR FORT COLLINS, CO

LOCATION.--Lat 40°36'00", long 105°10'06", in NW¹/4SW¹/4 sec.6, T.7 N., R.69 W., Larimer County, Hydrologic Unit 10190007, on right bank near abutment of Horsetooth Dam on tributaries to Cache la Poudre River, 4.8 mi west of city hall in Fort Collins.

RESERVOIR ELEVATIONS AND CONTENTS RECORDS

PERIOD OF RECORD.--April 1951 to current year.

GAGE.--Nonrecording gage read at irregular intervals from 1 to 10 days. Datum of gage is 5,430.00 ft above sea level, (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by an earth and rockfill dike and dams closing openings in subsequent valleys between hogbacks; storage began Jan. 10, 1951; dams completed July 21, 1949. Usable capacity, 143,500 acre-ft above elevations 5,320 ft, invert of channel from Spring Canyon Dam, 5,310 ft, invert of channel from Dixon Canyon Dam, 5,270 ft, trashrack sill of outlet at Soldier Canyon Dam, and below maximum water-surface elevation, 5,430 ft, 6 ft below crest of Satanka Dike. Dead storage, 7,003 acre ft. Figures given represent usable contents. Water is diverted from Colorado River basin through Alva B. Adams tunnel for supplemental irrigation supply to Cache la Poudre River. Water-quality sampling at three sites in reservoir.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 148,400 acre-ft, June 26-27, 1995, elevation, 5,429.36 ft; minimum observed, 9 acre-ft, Nov. 16-30, 1977, elevation, 5,270.25 ft; no storage prior to Apr. 18, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum contents, observed, 148,400 acre-ft, June 26-27, elevation, 5,429.36 ft; minimum, observed, 62,130 acre-ft, Oct. 25-26, elevation, 5,377.89 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	5,380.34	65,450	-
Oct. 31.	5,377.97	62,230	-3,220
Nov. 30.	5,380.29	65,380	+3,150
Dec. 31.	5,398.09	91,820	+26,440
CAL YR 1994	-	-	-17,380
Jan. 31.	5,415.00	120,800	+28,980
Feb. 28.	5,419.84	129,800	+9,000
Mar. 31.	5,421.67	133,200	+3,400
Apr. 30.	5,421.30	132,500	-700
May 31.	5,428.69	147,100	+14,600
June 30.	5,429.34	148,400	+1,300
July 31.	5,420.17	130,400	-18,000
Aug. 31.	5,412.97	117,100	-13,300
Sept. 30.	5,405.61	104,200	-12,900
WTR YR 1995	-	-	+38,750

06737500 HORSETOOTH RESERVOIR NEAR FORT COLLINS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1969 to current year.

REMARKS.--Samples collected at various depths near north end of reservoir near Soldier Canyon Dam.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT						
07...	0930	0.1	62	7.7	16.0	6.7
07...	0931	5.0	62	7.7	16.0	6.5
07...	0932	10	62	7.6	16.0	6.5
07...	0933	15	62	7.6	16.0	6.4
07...	0934	20	62	7.6	16.0	6.4
07...	0935	25	62	7.6	16.0	6.4
07...	0936	30	62	7.6	16.0	6.4
07...	0937	40	62	7.5	16.0	6.4
07...	0938	50	62	7.5	16.0	6.4
07...	0939	60	62	7.5	16.0	6.3
07...	0940	70	62	7.5	16.0	6.3
07...	0941	80	62	7.5	16.0	6.2
07...	0942	90	63	7.5	16.0	6.2
07...	0943	100	62	7.1	14.5	0.6
07...	0944	105	62	7.0	14.0	0.4
JUN						
15...	1042	0.1	70	8.3	20.0	8.8
15...	1043	5.0	70	8.4	19.0	9.0
15...	1044	10	69	8.4	15.0	9.5
15...	1045	15	68	8.0	13.0	8.8
15...	1046	20	70	7.9	12.0	8.4
15...	1047	25	70	7.9	11.5	8.3
15...	1048	30	70	7.8	10.5	8.3
15...	1049	40	70	7.8	9.0	8.4
15...	1050	50	66	7.8	8.0	8.4
15...	1051	60	66	7.7	7.5	8.3
15...	1052	70	66	7.7	7.5	8.4
15...	1053	80	66	7.6	7.5	8.4
15...	1054	90	66	7.6	7.0	8.3
15...	1055	100	65	7.5	7.0	8.3
15...	1056	110	65	7.5	7.0	8.3
15...	1057	120	65	7.5	7.0	8.2
15...	1058	130	65	7.5	7.0	8.2
AUG						
10...	1035	0.1	73	8.1	22.5	7.2
10...	1036	5.0	72	8.1	22.0	6.8
10...	1037	10	72	8.0	22.0	6.6
10...	1038	15	71	7.5	20.0	5.0
10...	1039	20	63	7.2	18.5	4.5
10...	1040	25	59	7.1	17.5	4.2
10...	1041	30	58	7.0	16.0	4.2
10...	1042	40	67	7.0	14.0	4.4
10...	1043	50	68	7.0	13.0	4.7
10...	1044	60	69	7.1	9.5	5.4
10...	1045	70	69	7.1	9.0	5.6
10...	1046	80	68	7.1	9.0	5.7
10...	1047	90	68	7.1	8.5	5.7
10...	1048	100	68	7.1	8.5	5.6
10...	1049	110	68	7.1	8.0	5.6
10...	1050	120	67	7.1	7.5	5.4
10...	1051	130	67	7.1	7.5	5.4

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK (IN)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT										
07...	0945	0.1	62	7.7	16.0	113	6.7	K2	26	8.3
07...	1000	105	62	7.0	14.0	--	0.4	--	27	8.5
JUN										
15...	1120	0.1	70	8.3	20.0	69.0	8.8	<1	29	9.1
15...	1135	130	65	7.5	7.0	--	8.2	--	28	9.0
AUG										
10...	1100	0.1	73	8.1	22.5	114	7.2	<1	29	9.3
10...	1115	130	67	7.1	7.5	--	5.4	--	29	9.3

K-Based on non-ideal colony counts.

06737500 HORSETOOTH RESERVOIR NEAR FORT COLLINS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 07...	1.3	2.0	0.2	0.5	29	2.8	0.6	0.1	2.7	34
OCT 07...	1.3	2.0	0.2	0.5	29	2.8	0.6	0.1	2.8	32
JUN 15...	1.5	2.4	0.2	0.8	31	3.3	0.7	0.2	2.0	38
JUN 15...	1.4	2.4	0.2	0.7	30	3.1	0.6	0.2	2.9	44
AUG 10...	1.5	2.4	0.2	0.7	31	3.3	0.9	0.1	2.0	34
AUG 10...	1.5	2.4	0.2	0.7	30	3.2	0.7	0.2	3.7	46

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOSPHORUS, DIS-SOLVED (MG/L AS P)	CHLOR-A PHYTO-PLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANKTON CHROMO FLUOROM (UG/L)
OCT 07...	36	<0.01	<0.05	<0.02	<0.20	<0.01	<0.01	<0.01	1.9	<0.1
OCT 07...	36	<0.01	<0.05	0.02	<0.20	0.02	<0.01	<0.01	--	--
JUN 15...	39	<0.01	<0.05	0.02	0.20	0.02	<0.01	<0.01	1.7	0.1
JUN 15...	38	<0.01	<0.05	0.06	0.20	0.01	<0.01	<0.01	--	--
AUG 10...	39	<0.01	<0.05	0.02	<0.20	<0.01	<0.01	<0.01	2.7	<0.1
AUG 10...	40	<0.01	0.11	<0.02	<0.20	<0.01	<0.01	<0.01	--	--

DATE	TIME	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYLLIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM, DIS-SOLVED (UG/L AS CD)	CHROMIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
OCT 07...	0945	20	<0.5	<10	<1	<5	<3	<10	9
OCT 07...	1000	21	<0.5	<10	<1	<5	<3	<10	12
JUN 15...	1120	19	<0.5	<10	<1	<5	4	<10	110
JUN 15...	1135	18	<0.5	<10	<1	<5	<3	<10	40
AUG 10...	1100	21	0.5	<10	2	<5	<3	<10	29
AUG 10...	1115	18	<0.5	<10	<1	<5	5	<10	56

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM, DIS-SOLVED (UG/L AS LI)	MANGANESE, DIS-SOLVED (UG/L AS MN)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SILVER, DIS-SOLVED (UG/L AS AG)	STRONTIUM, DIS-SOLVED (UG/L AS SR)	VANADIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 07...	<10	<4	2	<10	<10	<0.2	36	<6	3
OCT 07...	<10	4	27	<10	<10	<0.2	37	<6	<3
JUN 15...	<10	<4	3	<10	<10	<0.2	43	<6	<3
JUN 15...	<10	<4	<1	<10	<10	<0.2	43	<6	<3
AUG 10...	<10	<4	<1	<10	<10	<0.2	41	<6	3
AUG 10...	<10	4	2	<10	<10	<0.2	44	<6	3

PLATTE RIVER BASIN

403147105083800 HORSETOOTH RESERVOIR NEAR FORT COLLINS, CO

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1983 to current year.

REMARKS.--Samples were collected near surface and near bottom, near south end of reservoir near Spring Canyon Dam.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT						
07...	1055	0.1	67	7.7	16.0	7.2
07...	1056	5.0	67	7.7	16.0	7.2
07...	1057	10	67	7.7	16.0	7.1
07...	1058	15	67	7.7	16.0	7.0
07...	1059	20	67	7.7	16.0	7.0
07...	1100	25	67	7.7	16.0	7.0
07...	1101	30	67	7.7	16.0	7.0
07...	1102	40	67	7.7	16.0	7.0
07...	1103	50	67	7.6	16.0	6.9
07...	1104	60	69	7.5	15.5	5.9
07...	1105	70	67	7.0	9.0	1.0
07...	1106	80	68	7.1	8.0	0.8
07...	1107	90	72	7.1	7.5	0.1
07...	1108	100	80	7.0	7.5	0.1
JUN						
15...	1245	0.1	71	8.1	18.0	8.7
15...	1246	5.0	71	8.1	18.0	8.7
15...	1247	10	71	8.2	16.5	9.0
15...	1248	15	69	8.3	14.0	9.6
15...	1249	20	68	8.0	13.0	8.9
15...	1250	25	70	7.9	12.5	8.4
15...	1251	30	72	7.8	11.5	8.1
15...	1252	40	69	7.7	9.0	8.1
15...	1253	50	67	7.7	8.0	8.2
15...	1254	60	67	7.6	8.0	8.1
15...	1255	70	67	7.6	7.5	8.0
15...	1256	80	66	7.5	7.5	8.0
15...	1257	90	66	7.5	7.5	8.0
15...	1258	100	66	7.5	7.0	8.0
15...	1259	110	66	7.4	7.0	8.0
15...	1300	120	66	7.4	7.0	7.9
15...	1301	130	66	7.4	7.0	7.8
15...	1302	140	66	7.4	7.0	7.5
AUG						
10...	0855	0.1	67	8.0	21.0	7.0
10...	0856	5.0	69	8.0	21.0	7.0
10...	0857	10	69	8.0	21.0	6.8
10...	0858	15	69	8.0	21.0	6.2
10...	0859	20	56	8.0	20.0	5.7
10...	0900	25	45	7.5	18.5	6.4
10...	0901	30	41	7.4	17.5	6.0
10...	0902	40	44	7.3	16.0	5.6
10...	0903	50	54	7.2	13.5	5.2
10...	0904	60	64	7.2	12.0	4.9
10...	0905	70	68	7.2	9.5	5.4
10...	0906	80	68	7.2	8.5	5.4
10...	0907	90	68	7.2	8.0	5.4
10...	0908	100	68	7.2	8.0	5.1
10...	0909	110	68	7.1	8.0	5.0
10...	0910	120	68	7.1	8.0	4.7
10...	0911	130	69	7.1	7.5	4.3
10...	0912	140	69	7.1	7.5	4.1

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT										
07...	1110	0.1	67	7.7	16.0	78.0	7.2	K12	28	9.2
07...	1120	100	80	7.0	7.5	--	0.1	--	30	9.4
JUN										
15...	1315	0.1	71	8.1	18.0	65.0	8.7	K1	29	9.3
15...	1325	140	66	7.4	7.0	--	7.5	--	28	9.0
AUG										
10...	0930	0.1	67	8.0	21.0	78.0	7.0	K1	29	9.0
10...	0945	140	69	7.1	7.5	--	4.1	--	29	9.2

K-Based on non-ideal colony counts.

403147105083800 HORSETOOTH RESERVOIR NEAR FORT COLLINS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT										
07...	1.3	2.1	0.2	0.5	30	3.8	0.6	0.1	2.7	28
07...	1.5	2.2	0.2	0.6	32	2.8	0.8	0.1	2.6	38
JUN										
15...	1.5	2.6	0.2	0.8	31	3.5	0.8	0.2	2.4	46
15...	1.4	2.4	0.2	0.8	30	3.1	0.6	0.2	3.1	44
AUG										
10...	1.5	2.3	0.2	0.6	30	3.0	0.8	<0.1	2.3	48
10...	1.5	2.3	0.2	0.7	30	3.2	0.9	0.2	3.9	42

DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT										
07...	38	<0.01	<0.05	<0.02	0.30	0.02	<0.01	<0.01	4.3	0.1
07...	40	<0.01	<0.05	<0.02	<0.20	0.03	0.03	0.04	--	--
JUN										
15...	40	<0.01	<0.05	0.02	0.20	0.01	<0.01	<0.01	1.1	<0.1
15...	39	<0.01	<0.05	0.08	0.20	0.03	<0.01	<0.01	--	--
AUG										
10...	38	<0.01	<0.05	<0.02	<0.20	<0.01	<0.01	<0.01	2.4	0.1
10...	41	<0.01	0.14	0.02	<0.20	<0.01	<0.01	<0.01	--	--

DATE	TIME	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
OCT									
07...	1110	22	<0.5	<10	<1	<5	<3	<10	4
07...	1120	18	<0.5	<10	<1	<5	<3	<10	13
JUN									
15...	1315	19	<0.5	<10	<1	<5	<3	<10	72
15...	1325	18	<0.5	<10	<1	<5	<3	<10	51
AUG									
10...	0930	21	<0.5	<10	<1	<5	3	<10	29
10...	0945	18	<0.5	<10	<1	<5	<3	<10	79

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT									
07...	<10	<4	4	<10	<10	<0.2	41	<6	<3
07...	<10	<4	170	<10	<10	<0.2	41	<6	<3
JUN									
15...	<10	<4	1	<10	<10	<0.2	45	<6	3
15...	<10	<4	3	<10	<10	<0.2	43	<6	<3
AUG									
10...	<10	<4	<1	<10	<10	<0.2	39	<6	5
10...	10	<4	73	10	<10	<0.2	43	<6	<3

06738000 BIG THOMPSON RIVER AT MOUTH OF CANYON, NEAR DRAKE, CO

LOCATION.--Lat 40°25'18", long 105°13'34", in SW¹/4SW¹/4 sec.3, T.5 N., R.70 W., Larimer County, Hydrologic Unit 10190006, on right bank at mouth of canyon, 400 ft upstream from Handy Ditch diversion dam, and 6.0 mi east of Drake.

DRAINAGE AREA.--305 mi².

PERIOD OF RECORD.--August 1887 to September 1892, May 1895 to September 1903, October 1926 to September 1933 (no winter records prior to October 1932, except water years 1927-28), April 1938 to September 1949, March 1951 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as Big Thompson Creek at Arkins 1887-92, Big Thompson Creek near Arkins 1901-3, and as Thompson River at mouth of canyon, near Drake 1927-30, 1938-47.

REVISED RECORDS.--WSP 1310: 1891, 1927. WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,305.47 ft above sea level (levels by U.S. Bureau of Reclamation). Oct. 1, 1949, to Sept. 18, 1977, at present site, datum 8.00 ft lower, Sept. 19, 1977 to July 27, 1980, at present site, datum 7.37 ft, lower. See WSP 1710 or 1730 for history of changes prior to Oct. 1, 1949.

REMARKS.--Estimated daily discharges: Nov. 15-16, and Nov. 18 to Feb. 22. Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation. Diversions from Colorado River basin to Big Thompson River basin upstream from station through Alva B. Adams tunnel began Aug. 10, 1947 (see station 09013000 in Volume 2 for diversion during current year); since Apr. 15, 1953, this imported water has been diverted from Lake Estes through Olympus tunnel bypassing this station. Part of the natural flow of the Big Thompson River has also been diverted through Olympus tunnel since May 17, 1955, 292,000 acre-ft diverted during current year; and Dille tunnel since Apr. 20, 1959, 33,820 acre-ft, diverted during current year, and returned to the river just downstream from this station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,200 ft³/s, July 31, 1976, gage height, 19.86 ft, from floodmarks, from slope-area measurements of peak flow; no flow at times in 1976 (all flow above station diverted through Olympus and Dille tunnels after flood of July 31, 1976), 1979-80 (all flow above station diverted through Dille tunnel).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,740 ft³/s, May 30, gage height, 5.54 ft; minimum daily, 20 ft³/s, Mar. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	45	28	26	36	20	28	82	1050	529	120	63
2	60	37	28	26	36	21	29	90	894	438	129	59
3	60	37	27	26	36	30	28	122	809	463	75	61
4	66	36	27	26	36	25	32	124	794	449	60	61
5	55	33	27	27	36	23	29	122	803	338	66	59
6	50	36	26	27	36	26	29	152	784	309	61	71
7	50	36	26	27	36	25	28	161	921	337	59	62
8	49	38	26	28	35	25	28	176	984	450	63	57
9	50	34	25	28	35	27	28	162	1130	500	66	61
10	48	35	25	28	35	26	28	91	947	538	60	57
11	48	36	25	29	35	27	27	67	763	314	80	55
12	47	35	25	29	35	27	28	67	660	731	83	60
13	48	34	25	29	35	25	27	66	711	771	77	60
14	55	33	25	30	35	26	28	66	790	736	104	62
15	54	32	25	30	35	23	29	65	1090	652	68	67
16	54	37	25	30	35	31	30	82	1230	569	55	59
17	53	37	25	31	34	29	51	220	1200	441	54	60
18	52	36	25	31	33	30	57	201	1280	431	51	46
19	52	37	24	32	32	30	66	141	1150	409	52	52
20	51	38	24	32	30	30	58	135	913	383	51	65
21	51	38	24	33	29	29	62	131	959	429	50	72
22	50	38	24	33	28	29	63	122	767	318	59	48
23	49	38	24	34	25	27	60	135	632	230	96	37
24	49	38	24	34	24	28	60	111	387	180	80	37
25	51	38	24	35	26	27	50	117	323	312	62	37
26	50	38	24	35	27	29	38	121	239	328	59	64
27	51	33	24	36	27	27	34	118	196	326	62	74
28	48	33	24	36	25	29	35	122	258	407	61	72
29	48	29	25	37	---	29	42	854	600	422	59	75
30	50	29	25	37	---	28	72	2070	705	409	56	49
31	47	---	25	36	---	29	---	1350	---	158	64	---
TOTAL	1605	1074	780	958	907	837	1204	7643	23969	13307	2142	1762
MEAN	51.8	35.8	25.2	30.9	32.4	27.0	40.1	247	799	429	69.1	58.7
MAX	66	45	28	37	36	31	72	2070	1280	771	129	75
MIN	47	29	24	26	24	20	27	65	196	158	50	37
AC-FT	3180	2130	1550	1900	1800	1660	2390	15160	47540	26390	4250	3490
CAL YR 1994	TOTAL	25996	MEAN	71.2	MAX	237	MIN	15	AC-FT	51560		
WTR YR 1995	TOTAL	56188	MEAN	154	MAX	2070	MIN	20	AC-FT	111400		

06741510 BIG THOMPSON RIVER AT LOVELAND, CO

LOCATION.--Lat 40°22'43", long 105°03'38", in SE¹/4SE¹/4 sec.24, T.5 N., R.69 W., Larimer County, Hydrologic Unit 10190006, on right bank 690 ft downstream from county road bridge C-13, 1.7 mi south of sugar refinery in Loveland, and 1.9 mi downstream from Farmers Ditch diversion.

DRAINAGE AREA.--535 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1979 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,906 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 28-29, Dec. 31 to Jan. 9, Feb. 16-17, and Mar. 6-7. Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	6.6	5.9	6.6	6.6	5.5	4.2	7.8	1650	932	98	78
2	10	6.6	5.9	6.6	6.0	5.5	4.2	6.5	1100	867	71	70
3	9.9	6.9	5.9	6.6	6.1	5.0	4.2	7.6	889	867	46	68
4	11	6.6	5.9	6.6	6.4	4.7	4.2	8.2	855	848	29	65
5	12	6.4	5.9	6.6	6.6	4.5	4.2	5.7	948	724	29	67
6	11	6.3	6.3	6.6	6.9	4.8	4.2	5.4	853	589	28	73
7	9.7	6.2	6.3	6.6	7.1	5.1	4.2	5.4	945	568	28	67
8	10	159	7.1	6.6	7.1	5.1	4.2	8.7	1350	641	30	59
9	10	338	7.4	6.3	6.7	4.9	4.2	5.4	2300	690	29	56
10	10	335	12	5.8	6.6	4.6	4.6	5.2	1880	712	32	56
11	10	332	6.9	5.9	6.6	4.5	4.7	5.5	1400	456	38	45
12	9.7	330	6.1	5.5	6.5	4.3	4.5	7.3	961	565	38	27
13	9.5	322	6.6	5.5	6.5	4.3	4.2	7.4	858	602	42	20
14	10	172	6.1	5.8	6.4	4.5	4.1	7.4	956	545	47	21
15	11	16	5.5	6.4	6.2	4.2	12	7.4	1310	496	45	34
16	10	14	6.3	5.5	6.0	4.2	40	9.2	1620	435	39	46
17	12	12	5.7	5.5	5.8	4.2	35	106	1790	341	33	31
18	11	11	6.5	5.5	5.6	4.2	13	69	2070	296	33	39
19	10	10	6.3	5.9	5.3	3.8	12	50	1930	209	35	41
20	6.7	9.8	5.7	6.5	5.0	4.2	7.4	9.3	1600	165	39	46
21	6.4	9.3	6.2	5.5	5.1	4.5	6.8	7.6	1470	159	46	51
22	6.2	8.8	6.0	5.7	5.5	4.1	6.9	7.0	1160	89	44	23
23	6.2	9.2	5.9	7.7	5.5	3.9	6.9	7.8	910	71	40	14
24	6.2	10	6.2	12	5.2	4.0	6.5	19	744	98	45	14
25	6.4	9.1	6.4	5.2	4.9	4.0	6.8	98	659	148	50	10
26	6.6	10	6.5	6.8	4.9	4.0	7.6	42	585	149	48	9.8
27	6.0	8.2	6.6	7.1	4.2	4.0	6.4	12	534	137	47	9.2
28	6.3	8.3	6.6	7.1	5.9	4.2	6.3	7.0	565	159	52	9.1
29	6.5	8.5	6.6	7.1	---	4.2	8.5	718	846	141	50	9.8
30	6.5	5.9	6.6	7.0	---	4.2	14	3520	978	135	59	9.2
31	6.4	---	6.6	7.1	---	4.2	---	2550	---	128	82	---
TOTAL	271.6	2193.7	200.5	201.2	167.2	137.4	256.0	7332.8	35716	12962	1372	1168.1
MEAN	8.76	73.1	6.47	6.49	5.97	4.43	8.53	237	1191	418	44.3	38.9
MAX	12	338	12	12	7.1	5.5	40	3520	2300	932	98	78
MIN	6.0	5.9	5.5	5.2	4.2	3.8	4.1	5.2	534	71	28	9.1
AC-FT	539	4350	398	399	332	273	508	14540	70840	25710	2720	2320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1995, BY WATER YEAR (WY)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	29.0	22.8	10.3	13.6	12.1	11.9	43.1	260	307	131	85.4	37.6					
MAX	66.0	95.8	36.4	62.8	59.9	49.3	292	2078	1493	418	153	83.9					
(WY)	1990	1985	1985	1980	1980	1980	1980	1980	1983	1995	1981	1982					
MIN	6.15	3.96	2.86	2.55	2.42	3.22	4.49	4.07	25.0	29.9	44.3	16.6					
(WY)	1988	1982	1993	1994	1993	1991	1981	1981	1982	1987	1995	1990					

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1979 - 1995

ANNUAL TOTAL	13382.7	61978.5		
ANNUAL MEAN	36.7	170		
HIGHEST ANNUAL MEAN			80.7	1980
LOWEST ANNUAL MEAN			321	1990
HIGHEST DAILY MEAN	388	May 11	28.4	May 1 1980
LOWEST DAILY MEAN	^a 1.6	Jan 11	4240	May 11 1981
ANNUAL SEVEN-DAY MINIMUM	1.6	Jan 10	.80	May 10 1981
INSTANTANEOUS PEAK FLOW			.89	Apr 30 1980
INSTANTANEOUS PEAK STAGE			6970	Apr 30 1980
ANNUAL RUNOFF (AC-FT)	26540	122900	^b 9.73	10.10
10 PERCENT EXCEEDS	90	671		
50 PERCENT EXCEEDS	9.9	8.4		
90 PERCENT EXCEEDS	3.0	4.6		3.4

a-Also occurred Jan 13-15.
b-From high-water mark.

06741510 BIG THOMPSON RIVER AT LOVELAND, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1979 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT 27...	0947	6.1	1430	8.0	10.0	9.0	680	170	61	--
NOV 29...	0942	5.4	1270	8.1	0.5	11.4	620	160	53	--
DEC 28...	0937	6.6	1480	8.3	2.0	12.4	680	160	67	--
JAN 31...	1006	7.2	1330	8.2	3.0	12.7	620	160	54	53
FEB 28...	0922	6.1	1460	8.3	3.5	11.6	690	170	64	--
MAR 28...	0920	4.4	1340	8.2	6.5	12.5	660	170	57	--
APR 25...	0915	6.8	1160	8.2	9.5	9.8	530	140	45	--
MAY 16...	1059	7.3	697	--	15.0	10.1	290	68	28	--
JUN 20...	1520	1720	136	8.0	14.5	--	39	9.7	3.7	--
JUL 25...	1136	168	236	8.1	16.5	8.2	93	25	7.3	7.7
AUG 28...	1534	51	661	8.7	24.0	8.2	270	56	32	--
SEP 19...	1106	42	734	8.0	15.5	8.3	310	75	30	--

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)
OCT 27...	191	--	--	--	--	--	<0.01	0.18	<0.02	<0.01
NOV 29...	195	--	--	--	--	--	<0.01	0.37	0.02	<0.01
DEC 28...	181	--	--	--	--	--	<0.01	0.32	0.02	<0.01
JAN 31...	178	540	12	0.5	6.2	1020	<0.01	0.40	0.03	<0.01
FEB 28...	178	--	--	--	--	--	<0.01	0.30	0.04	<0.01
MAR 28...	167	--	--	--	--	--	<0.01	0.15	<0.02	<0.01
APR 25...	165	--	--	--	--	--	<0.01	0.16	0.02	0.03
MAY 16...	111	--	--	--	--	--	<0.01	0.02	0.02	<0.01
JUN 20...	26	--	--	--	--	--	<0.01	0.16	<0.02	0.05
JUL 25...	45	58	2.5	0.2	5.4	142	<0.01	0.16	0.02	<0.01
AUG 28...	81	--	--	--	--	--	<0.01	0.08	<0.02	0.01
SEP 19...	109	--	--	--	--	--	<0.01	0.29	0.04	0.02

06741510 BIG THOMPSON RIVER AT LOVELAND, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT 27...	<0.01	--	--	<1	--	--	--	1	1	140
NOV 29...	0.01	--	--	<1	--	--	--	<1	<1	140
DEC 28...	<0.01	--	--	<1	--	--	--	<1	<1	90
JAN 31...	<0.01	<10	<1	<1	<1	<1	<1	<1	1	80
FEB 28...	<0.01	--	--	<1	--	--	--	2	1	140
MAR 28...	<0.01	--	--	<1	--	--	--	1	<1	120
APR 25...	<0.01	--	--	<1	--	--	--	<1	<1	140
MAY 16...	<0.01	--	--	<1	--	--	--	2	1	280
JUN 20...	0.01	--	--	<1	--	--	--	9	4	4000
JUL 25...	<0.01	50	<1	<1	<1	2	<1	4	2	1700
AUG 28...	<0.01	--	--	<1	--	--	--	2	2	460
SEP 19...	0.01	--	--	<1	--	--	--	3	1	640

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 27...	<1	--	--	--	--	--	--	<1	<0.2	--
NOV 29...	<1	--	--	--	--	--	--	<1	<0.2	--
DEC 28...	<1	--	--	--	--	--	--	<1	<0.2	--
JAN 31...	<1	<1	50	<0.1	<0.1	1	7	<1	<0.2	5
FEB 28...	<1	--	--	--	--	--	--	<1	<0.2	--
MAR 28...	<1	--	--	--	--	--	--	<1	<0.2	--
APR 25...	<1	--	--	--	--	--	--	<1	<0.2	--
MAY 16...	2	--	--	--	--	--	--	<1	<0.2	--
JUN 20...	11	--	--	--	--	--	--	<1	<0.2	--
JUL 25...	2	<1	80	<0.1	<0.1	<1	<1	<1	<0.2	10
AUG 28...	<1	--	--	--	--	--	--	<1	<0.2	--
SEP 19...	<1	--	--	--	--	--	--	<1	<0.2	--

PLATTE RIVER BASIN

06742500 CARTER LAKE NEAR BERTHOUD, CO

LOCATION.--Lat 40°19'28", long 105°12'41", in SE¹/₄ sec.10, T.4 N., R.70 W., Larimer County, Hydrologic Unit 10190006, in hoist house 293 ft from right abutment of Carter Lake Dam on Dry Creek, 7.0 mi west of Berthoud, and 8.9 mi upstream from mouth. Water-quality sampling site near center of reservoir.

RESERVOIR ELEVATIONS AND CONTENTS RECORDS

PERIOD OF RECORD.--March 1954 to current year.

GAGE.--Nonrecording gage read at irregular intervals from 1 to 13 days. Datum of gage is 5,763.00 ft above sea level, (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by an earth and rockfill dam and dikes enlarging the natural basin of Carter Lake. Storage began in February 1954. Usable capacity, 113,500 acre-ft between elevations 5,618.00 ft, trashrack sill at outlet, and 5,763.00 ft, maximum water surface, 6 ft below crest of dam. Dead storage, 3,306 acre-ft. Figures given represent usable contents. Water diverted from Colorado River basin through Alva B. Adams tunnel is pumped from Flatiron Reservoir into Carter Lake for supplemental irrigation supply to Little Thompson River and St. Vrain and Boulder Creek basins. Water above elevation 5,620 ft may be released for return to Flatiron Reservoir where pump turbines can operate in reverse to generate power and water can be used for irrigation in Big Thompson or Cache la Poudre River basins.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 109,100 acre-ft, Apr. 27-29, 1971, elevation, 5,759.12 ft; minimum observed since appreciable storage was attained, 960 acre-ft, Oct. 25, 1954, elevation, 5,621.40 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 108,100 acre-ft, July 15-16, elevation, 5,758.28 ft; minimum contents, 45,800 acre-ft, Oct. 1, elevation, 5,696.42 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	5,695.69	45,170	-
Oct. 31.	5,717.57	65,090	+19,920
Nov. 30.	5,732.22	79,770	+14,680
Dec. 31.	5,731.29	78,810	-960
CAL YR 1994.	-	-	-2,790
Jan. 31.	5,730.41	77,900	-910
Feb. 28.	5,742.37	90,470	+12,570
Mar. 31.	5,757.35	107,000	+16,530
Apr. 30.	5,753.39	102,600	-4,400
May 31.	5,755.22	104,600	+2,000
June 30.	5,758.04	107,800	+3,200
July 31.	5,751.05	99,960	-7,840
Aug. 31.	5,735.34	83,010	-16,950
Sept. 30.	5,723.75	71,160	-11,850
WTR YR 1995.	-	-	+25,990

06742500 CARTER LAKE NEAR BERTHOUD, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1970 to current year.

REMARKS.--Samples were collected near surface and near bottom, near south end of reservoir.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT						
06...	1250	0.1	67	8.0	15.0	7.8
06...	1251	5.0	67	8.0	15.0	7.7
06...	1252	10	67	8.0	15.0	7.7
06...	1253	15	67	7.9	15.0	7.6
06...	1254	20	67	7.9	15.0	7.5
06...	1255	25	67	7.9	15.0	7.5
06...	1256	30	67	7.9	15.0	7.5
06...	1257	40	64	7.6	15.0	5.9
06...	1258	50	60	7.5	14.5	5.4
06...	1259	60	60	7.4	14.5	5.4
06...	1300	70	60	7.4	14.5	5.4
06...	1301	75	60	7.4	14.5	5.4
JUN						
16...	0900	0.1	64	8.9	16.5	9.4
16...	0901	5.0	64	8.7	16.0	9.4
16...	0902	10	64	8.7	15.5	9.7
16...	0903	15	63	8.8	13.0	10.2
16...	0904	20	63	8.8	12.0	10.3
16...	0905	25	63	8.6	10.5	10.2
16...	0906	30	63	8.3	9.0	9.7
16...	0907	40	63	8.1	7.5	9.1
16...	0908	50	63	8.0	7.0	8.7
16...	0909	60	62	7.9	6.5	8.6
16...	0910	70	62	7.9	6.5	8.4
16...	0911	80	62	7.8	6.5	8.3
16...	0912	90	62	7.7	6.0	8.2
16...	0913	100	62	7.7	6.0	8.2
16...	0914	110	62	7.7	6.0	8.1
16...	0915	120	63	7.6	6.0	8.0
16...	0916	130	63	7.6	6.0	7.9
16...	0917	140	63	7.6	6.0	7.9
16...	0918	150	63	7.6	6.0	7.8
AUG						
11...	0940	0.1	72	8.3	22.5	7.0
11...	0941	5.0	72	8.3	22.5	6.8
11...	0942	10	71	8.4	22.0	6.9
11...	0943	15	71	8.3	21.5	6.9
11...	0944	20	70	8.1	20.5	6.7
11...	0945	25	66	7.8	15.0	6.5
11...	0946	30	63	7.6	11.0	6.5
11...	0947	40	60	7.5	8.0	6.4
11...	0948	50	59	7.5	8.0	6.1
11...	0949	60	59	7.4	7.5	6.1
11...	0950	70	59	7.3	7.5	6.0
11...	0951	80	59	7.3	7.5	6.0
11...	0952	90	59	7.3	7.0	6.0
11...	0953	100	60	7.2	7.0	5.8
11...	0954	110	60	7.2	7.0	5.5
11...	0955	120	61	7.2	7.0	5.2
11...	0956	130	61	7.1	6.5	4.9
11...	0957	140	62	7.1	6.5	4.7

06742500 CARTER LAKE NEAR BERTHOUD, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	(STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (IN)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, UM-MF (COLS./100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT										
06...	1315	0.1	67	8.0	15.0	88.0	7.8	K1	28	9.4
06...	1330	75	60	7.4	14.5	--	5.4	--	25	8.2
JUN										
16...	0935	0.1	64	8.9	16.5	107	9.4	<1	27	8.7
16...	0945	150	63	7.6	6.0	--	7.8	--	27	8.8
AUG										
11...	1015	0.1	72	8.3	22.5	108	7.0	<1	30	9.8
11...	1030	140	62	7.1	6.5	--	4.7	--	27	8.5

K-Based on non-ideal colony count.

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT										
06...	1.2	2.1	0.2	0.6	31	2.8	0.5	0.1	4.3	50
06...	1.2	2.1	0.2	0.6	28	2.7	0.6	0.1	4.7	36
JUN										
16...	1.3	2.2	0.2	0.7	29	2.6	0.6	0.2	3.3	44
16...	1.3	2.3	0.2	0.7	29	2.7	0.7	0.2	4.2	46
AUG										
11...	1.4	2.2	0.2	0.7	32	2.6	0.6	0.2	2.8	40
11...	1.3	2.2	0.2	0.6	28	2.6	0.7	0.1	4.9	38

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)
OCT										
06...	40	<0.01	<0.05	<0.02	<0.20	0.01	<0.01	<0.01	4.2	0.2
06...	37	<0.01	<0.05	0.02	<0.20	<0.01	<0.01	<0.01	--	--
JUN										
16...	37	<0.01	<0.05	0.02	0.20	0.01	<0.01	<0.01	1.2	<0.1
16...	38	<0.01	<0.05	0.06	0.20	0.01	<0.01	<0.01	--	--
AUG										
11...	40	<0.01	<0.05	<0.02	<0.20	<0.01	<0.01	<0.01	1.2	0.1
11...	38	<0.01	0.09	<0.02	<0.20	<0.01	<0.01	<0.01	--	--

DATE	TIME	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM, DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
OCT									
06...	1315	22	<0.5	<10	<1	<5	<3	<10	4
06...	1330	17	<0.5	<10	1	<5	<3	<10	6
JUN									
16...	0935	18	<0.5	<10	<1	<5	<3	<10	13
16...	0945	16	<0.5	<10	<1	<5	<3	<10	12
AUG									
11...	1015	24	<0.5	<10	2	<5	<3	<10	28
11...	1030	15	<0.5	<10	<1	<5	<3	<10	5

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM, DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT									
06...	10	4	<1	<10	<10	<0.2	40	<6	3
06...	<10	4	2	<10	<10	<0.2	39	<6	14
JUN									
16...	<10	<4	<1	<10	<10	<0.2	41	<6	13
16...	<10	<4	<1	<10	<10	<0.2	42	<6	<3
AUG									
11...	<10	<4	<1	<10	<10	<0.2	42	<6	5
11...	20	<4	6	10	<10	<0.2	40	<6	<3

06746095 JOE WRIGHT CREEK ABOVE JOE WRIGHT RESERVOIR, CO

LOCATION.--Lat 40°32'24", long 105°52'56", in SE¹/4SE¹/4 sec.26, T.7 N., R.76 W., Larimer County, Hydrologic Unit 10190007, on left bank 150 ft downstream from unnamed tributary and Colorado Highway 14 culvert crossing, 1.5 mi northeast of Cameron Pass, 1.5 mi southwest of Joe Wright Dam, and 8 mi east of Gould.

DRAINAGE AREA.--3.01 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 9,990 ft above sea level, from topographic map. Prior to Aug. 7, 1989, at datum 3.40 ft, higher.

REMARKS.--Estimated daily discharges: Oct. 17 to June 20. Records good except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	1.0	.70	.70	.60	.45	.54	.60	12	110	40	10
2	2.7	1.0	.70	.70	.60	.45	.54	.60	16	113	36	9.7
3	2.6	1.0	.70	.70	.60	.44	.54	.60	21	110	34	9.7
4	2.6	1.0	.70	.70	.60	.43	.55	.58	30	100	31	9.1
5	2.8	1.0	.70	.70	.60	.44	.56	.56	40	104	29	9.0
6	2.8	1.0	.70	.70	.60	.45	.58	.55	37	111	28	8.9
7	2.6	1.0	.70	.70	.60	.45	.60	.53	31	123	27	8.6
8	3.1	1.0	.70	.70	.60	.45	.60	.52	25	131	27	9.0
9	3.0	1.0	.70	.70	.60	.45	.60	.52	21	139	27	8.2
10	2.7	1.0	.70	.70	.57	.45	.60	.52	19	145	26	7.9
11	2.5	1.0	.70	.70	.55	.45	.60	.52	19	150	26	7.8
12	2.3	.96	.70	.70	.53	.45	.60	.52	18	148	26	7.1
13	2.3	.94	.70	.70	.52	.45	.60	.52	25	148	24	6.6
14	2.2	.90	.70	.70	.50	.45	.60	.52	37	142	27	6.2
15	2.3	.87	.70	.70	.48	.46	.60	.52	62	109	20	5.8
16	2.5	.85	.70	.70	.46	.47	.60	.52	100	45	19	5.6
17	2.9	.82	.70	.68	.45	.48	.60	.52	140	36	18	5.3
18	2.9	.78	.70	.64	.45	.50	.60	.52	120	33	17	6.4
19	2.9	.76	.70	.62	.45	.52	.60	.52	80	51	16	6.2
20	3.0	.74	.70	.60	.45	.54	.60	.52	85	96	16	9.0
21	2.8	.71	.70	.60	.45	.54	.60	1.4	111	86	15	7.1
22	1.8	.70	.70	.60	.45	.54	.60	3.2	140	79	16	6.5
23	1.1	.70	.70	.60	.45	.54	.60	8.0	130	75	17	5.9
24	1.1	.70	.70	.60	.45	.54	.60	15	121	68	16	5.6
25	1.0	.70	.70	.60	.45	.54	.60	14	115	62	15	5.8
26	1.0	.70	.70	.60	.45	.54	.60	13	117	58	14	5.7
27	1.0	.70	.70	.60	.45	.54	.60	13	124	54	13	5.8
28	1.0	.70	.70	.60	.45	.54	.60	12	129	51	13	5.8
29	1.0	.70	.70	.60	---	.54	.60	12	122	48	12	7.3
30	1.0	.70	.70	.60	---	.54	.60	11	111	46	11	7.0
31	1.0	---	.70	.60	---	.54	---	10	---	44	11	---
TOTAL	67.1	25.63	21.70	20.34	14.41	15.17	17.71	123.38	2158	2815	667	218.6
MEAN	2.16	.85	.70	.66	.51	.49	.59	3.98	71.9	90.8	21.5	7.29
MAX	3.1	1.0	.70	.70	.60	.54	.60	15	140	150	40	10
MIN	1.0	.70	.70	.60	.45	.43	.54	.52	12	33	11	5.3
AC-FT	133	51	43	40	29	30	35	245	4280	5580	1320	434

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1995, BY WATER YEAR (WY)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	2.17	1.24	.82	.64	.58	.62	1.04	13.0	49.8	26.8	7.93	3.60					
MAX	4.96	3.20	1.85	1.28	1.20	1.50	3.39	34.6	88.5	90.8	21.5	7.30					
(WY)	1994	1991	1994	1994	1994	1994	1994	1988	1995	1995	1995	1993					
MIN	.54	.36	.28	.25	.20	.20	.39	3.58	25.5	6.75	1.88	1.06					
(WY)	1981	1979	1981	1981	1979	1979	1979	1982	1989	1989	1985	1980					

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1979 - 1995	
ANNUAL TOTAL	3657.33		6164.04			
ANNUAL MEAN	10.0		16.9		9.04	
HIGHEST ANNUAL MEAN					16.9	
LOWEST ANNUAL MEAN					5.40	
HIGHEST DAILY MEAN	108	Jun 1	150	Jul 11	150	Jul 11 1995
LOWEST DAILY MEAN	a .70	Nov 22	.43	Mar 4	b .20	Jan 30 1979
ANNUAL SEVEN-DAY MINIMUM	.70	Nov 22	.44	Feb 27	.20	Jan 30 1979
INSTANTANEOUS PEAK FLOW			177		238	
INSTANTANEOUS PEAK STAGE			5.87		c 5.60	
ANNUAL RUNOFF (AC-FT)	7250		12230		6550	
10 PERCENT EXCEEDS	34		62		29	
50 PERCENT EXCEEDS	2.4		.76		1.3	
90 PERCENT EXCEEDS	.70		.52		.44	

a-Also occurred Nov 23 to Dec 31.

b-Also occurred Jan 31 to Apr 4, 1979, and Feb 9 to Apr 9, 1981.

c-Maximum gage height, 10.64 ft, May 15, 1993, present datum, backwater from ice.

06746110 JOE WRIGHT CREEK BELOW JOE WRIGHT RESERVOIR, CO

LOCATION.--Lat 40°33'43", long 105°51'48", in SE¹/4NE¹/4 sec.24, T.7 N., R.76 W., Larimer County, Hydrologic Unit 10190007, on left bank 500 ft downstream from unnamed tributary, 2,000 ft downstream from Joe Wright Dam, and 3 mi southwest of Chambers Lake.

DRAINAGE AREA.--6.90 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 9,710 ft above sea level, from topographic map. Prior to Aug. 7, 1989, at datum 0.50 ft, higher.

REMARKS.--Estimated daily discharges: Oct. 16 to May 3, June 6-20, and Aug. 16-22. Records good except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	.41	.30	.28	.22	.22	.25	.37	9.1	93	27	56
2	7.9	.41	.30	.28	.22	.22	.25	.38	11	95	63	63
3	7.1	.40	.30	.27	.22	.21	.25	.40	12	95	63	62
4	53	.40	.30	.27	.22	.22	.26	.42	12	97	57	59
5	62	.40	.30	.26	.22	.22	.28	.43	14	96	45	59
6	63	.40	.30	.26	.22	.22	.29	.50	11	92	53	60
7	62	.40	.30	.26	.22	.22	.30	.52	9.0	99	68	61
8	61	.40	.30	.25	.22	.22	.30	.48	7.0	120	57	60
9	63	.40	.30	.25	.22	.22	.31	.48	7.6	125	51	60
10	66	.39	.30	.25	.22	.22	.32	.52	9.3	134	50	59
11	69	.38	.30	.25	.22	.22	.33	.65	9.7	130	48	59
12	71	.37	.30	.25	.22	.22	.34	.61	9.2	109	16	59
13	43	.36	.30	.25	.22	.22	.35	.57	10	96	15	58
14	.71	.35	.30	.25	.22	.22	.35	.66	12	95	17	58
15	.64	.34	.30	.25	.22	.22	.35	1.1	17	88	17	58
16	.62	.32	.30	.25	.22	.22	.35	1.3	21	83	17	57
17	.50	.31	.30	.25	.22	.23	.35	1.1	29	84	16	57
18	.56	.30	.30	.24	.22	.23	.35	.85	32	79	16	57
19	.54	.30	.30	.23	.22	.24	.35	1.2	30	71	16	58
20	.53	.30	.30	.22	.22	.24	.35	1.4	35	107	16	63
21	.52	.30	.30	.22	.22	.25	.35	1.8	68	129	15	64
22	.52	.30	.30	.22	.22	.25	.35	2.2	128	124	16	68
23	.50	.30	.30	.22	.22	.25	.35	1.8	143	89	16	68
24	.48	.30	.30	.22	.22	.25	.35	1.3	144	67	21	67
25	.47	.30	.30	.22	.22	.25	.35	2.6	141	49	24	66
26	.46	.30	.30	.22	.22	.25	.35	6.4	116	48	21	66
27	.45	.30	.30	.22	.22	.25	.35	4.6	96	47	17	69
28	.44	.30	.30	.22	.22	.25	.35	4.5	87	41	15	69
29	.43	.30	.30	.22	---	.25	.35	4.8	79	30	14	68
30	.42	---	.29	.22	---	.25	.35	5.0	85	19	14	67
31	.41	---	.29	.22	---	.25	---	6.6	---	19	26	---
TOTAL	645.20	10.34	9.28	7.49	6.16	7.20	9.78	55.54	1393.9	2650	927	1855
MEAN	20.8	.34	.30	.24	.22	.23	.33	1.79	46.5	85.5	29.9	61.8
MAX	71	.41	.30	.28	.22	.25	.35	6.6	144	134	68	69
MIN	.41	.30	.29	.22	.22	.21	.25	.37	7.0	19	14	56
AC-FT	1280	21	18	15	12	14	19	110	2760	5260	1840	3680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1995, BY WATER YEAR (WY)

MEAN	3.37	1.02	.62	.52	.46	.44	.53	10.3	60.2	38.2	27.5	29.8
MAX	20.8	3.01	1.96	1.40	1.30	1.38	.79	32.1	96.0	90.8	84.7	61.8
(WY)	1995	1982	1983	1983	1983	1983	1994	1988	1988	1993	1991	1995
MIN	.54	.34	.21	.24	.22	.23	.29	1.21	12.6	2.49	6.44	1.13
(WY)	1989	1995	1993	1993	1995	1995	1991	1980	1980	1989	1981	1991

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1979 - 1995

ANNUAL TOTAL	5989.80	7576.89		
ANNUAL MEAN	16.4	20.8	14.4	
HIGHEST ANNUAL MEAN			23.9	1993
LOWEST ANNUAL MEAN			3.69	1980
HIGHEST DAILY MEAN	112	Jun 2	144	Jun 24
LOWEST DAILY MEAN	^a .29	Dec 30	.21	Mar 3
ANNUAL SEVEN-DAY MINIMUM	.30	Dec 25	.22	Feb 25
INSTANTANEOUS PEAK FLOW			159	Jun 23
INSTANTANEOUS PEAK STAGE			2.23	Jun 23
ANNUAL RUNOFF (AC-FT)	11880	15030	10450	
10 PERCENT EXCEEDS	56	68	55	
50 PERCENT EXCEEDS	.72	.41	.99	
90 PERCENT EXCEEDS	.30	.22	.31	

a-Also occurred Dec 31.

b-Also occurred Apr 4, 1991.

06751490 NORTH FORK CACHE LA POUDE RIVER AT LIVERMORE, CO

LOCATION.--Lat 40°47'15", long 105°15'06", in SW¹/4SE¹/4 sec.32, T.10 N., R.70 W., Larimer County, Hydrologic Unit 10190007, on left bank 60 ft downstream from bridge on Colorado State Highway 200, 2.0 mi west of Livermore, and 2.9 mi downstream from Stonewall Creek.

DRAINAGE AREA.--539 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1986 to current year. May 1929 to September 1931, May 1947 to September 1960, published as near Livermore; records are not considered equivalent.

GAGE.--Water-stage recorder. Elevation of gage is 5,715 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 17-24, 27-29, Dec. 8-11, 14-16, 18-21, 23, 25, 27-29, Dec. 31 to Jan. 26, Jan. 30, and Feb. 10-17. Records good except for estimated daily discharges, which are poor. Natural flow affected by transbasin diversions, storage reservoirs, and irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	7.1	7.4	3.9	4.8	5.4	4.0	12	1420	433	13	9.8
2	19	7.1	7.3	3.9	4.8	5.6	4.1	14	1240	405	12	8.5
3	15	7.3	6.9	3.9	4.5	5.5	3.9	20	1160	374	12	8.2
4	6.3	7.5	6.8	3.8	4.5	5.5	3.9	27	1110	316	13	7.9
5	5.6	7.4	6.5	3.9	4.6	5.4	4.1	32	1120	280	13	8.0
6	5.2	7.6	6.2	3.9	4.6	5.4	4.0	36	1070	252	13	8.1
7	5.1	7.8	6.3	3.9	4.6	5.1	3.9	41	1010	224	12	9.2
8	5.1	8.0	5.9	3.9	4.6	4.8	4.0	71	1020	204	12	10
9	5.0	8.2	5.9	4.0	4.7	4.5	4.0	85	1240	169	12	9.8
10	4.8	8.2	5.9	4.0	4.7	4.6	4.1	86	1150	153	12	9.8
11	4.5	11	5.9	4.1	4.7	4.6	4.0	79	1040	139	13	10
12	4.6	12	6.3	4.2	4.7	4.9	3.9	66	962	114	14	8.6
13	4.5	8.7	6.0	4.1	4.7	4.9	3.9	57	922	80	13	7.7
14	4.9	8.5	5.7	4.2	4.7	4.7	4.0	49	890	71	12	7.7
15	5.8	8.2	5.1	4.2	4.7	4.7	4.0	43	917	126	12	7.9
16	6.3	8.4	4.9	4.3	4.9	4.7	4.1	32	893	112	11	7.7
17	6.5	8.6	4.9	4.3	5.2	4.7	4.7	69	847	84	11	7.4
18	7.4	8.4	4.7	4.3	5.5	4.8	4.8	195	955	80	11	8.0
19	6.9	8.2	4.6	4.3	5.6	4.9	4.8	177	845	75	10	9.5
20	7.0	8.2	4.6	4.3	5.5	5.1	4.6	154	751	73	10	12
21	6.8	8.2	4.6	4.3	5.6	5.1	5.0	155	680	66	11	12
22	7.7	8.2	4.6	4.4	5.4	26	5.3	139	629	56	11	12
23	7.3	8.1	4.1	4.4	5.3	33	5.7	322	569	47	11	14
24	7.3	8.1	4.0	4.5	5.4	4.7	5.8	566	537	41	13	15
25	7.4	8.1	4.1	4.6	5.3	4.2	5.0	736	496	33	13	15
26	7.3	7.2	4.1	4.6	5.4	4.1	5.1	1060	471	24	12	15
27	7.1	7.2	4.2	4.7	5.4	4.1	5.0	1140	427	21	11	14
28	7.0	7.2	4.1	4.7	5.6	4.1	4.7	1040	406	15	10	14
29	6.8	7.2	4.0	4.6	---	4.1	5.3	1130	461	14	9.9	15
30	6.8	7.4	4.0	4.6	---	3.9	7.5	1910	472	13	8.9	15
31	6.9	---	3.9	4.7	---	3.9	---	1780	---	14	9.2	---
TOTAL	226.9	243.3	163.5	131.5	140.0	197.0	137.2	11323	25710	4108	361.0	316.8
MEAN	7.32	8.11	5.27	4.24	5.00	6.35	4.57	365	857	133	11.6	10.6
MAX	19	12	7.4	4.7	5.6	33	7.5	1910	1420	433	14	15
MIN	4.5	7.1	3.9	3.8	4.5	3.9	3.9	12	406	13	8.9	7.4
AC-FT	450	483	324	261	278	391	272	22460	51000	8150	716	628

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1995, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	9.75	10.2	7.74	6.54	7.37	16.0	51.4	122	220
MAX	17.8	14.7	11.6	10.8	11.6	55.5	244	365	857
(WY)	1991	1987	1994	1993	1993	1990	1990	1995	1995
MIN	4.85	6.62	3.58	3.60	5.00	6.35	4.57	10.3	20.3
(WY)	1989	1988	1988	1988	1995	1995	1995	1989	1987

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1987 - 1995

ANNUAL TOTAL	6354.0	43058.2	
ANNUAL MEAN	17.4	118	42.6
HIGHEST ANNUAL MEAN			118
LOWEST ANNUAL MEAN			8.06
HIGHEST DAILY MEAN	258	May 14	1910
LOWEST DAILY MEAN	2.8	Sep 17	3.8
ANNUAL SEVEN-DAY MINIMUM	3.1	Sep 14	3.9
INSTANTANEOUS PEAK FLOW			2170
INSTANTANEOUS PEAK STAGE			13.17
ANNUAL RUNOFF (AC-FT)	12600	85410	30890
10 PERCENT EXCEEDS	30	444	80
50 PERCENT EXCEEDS	7.8	7.4	9.2
90 PERCENT EXCEEDS	4.7	4.1	4.6

a-Also occurred Sep 3, 1988, and Apr 27, 1989.

06751490 NORTH FORK CACHE LA POUVRE RIVER AT LIVERMORE, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1986 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
OCT 19...	1140	7.2	436	8.3	8.0	9.2	210	57	16	12	11
NOV 16...	1150	8.5	428	8.2	1.0	13.1	210	58	16	13	12
DEC 14...	1150	5.9	463	8.1	0.5	12.5	220	62	16	15	13
JAN 11...	1115	4.1	431	8.1	0.5	12.4	200	54	16	14	13
FEB 14...	1340	4.7	456	8.1	0.5	14.5	210	57	17	16	14
MAR 14...	1130	4.6	440	8.5	9.0	11.8	190	53	15	17	16
APR 27...	1615	5.0	381	8.7	14.0	11.3	170	46	13	14	15
MAY 18...	1545	198	133	--	11.0	8.8	51	15	3.2	6.5	21
JUN 23...	1327	391	109	8.2	16.0	--	43	13	2.6	4.2	17
JUL 28...	1105	16	344	8.6	18.0	9.6	160	44	11	12	14
AUG 29...	1224	11	397	8.6	20.5	8.6	180	50	13	12	13
SEP 20...	1114	12	448	8.4	10.5	9.3	200	55	16	14	13

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT 19...	0.4	2.0	218	13	7.2	1.1	15	244	255	0.33
NOV 16...	0.4	1.6	211	14	9.2	1.1	13	262	253	0.36
DEC 14...	0.4	1.5	223	16	11	1.0	13	280	270	0.38
JAN 11...	0.4	1.6	202	16	12	1.0	11	252	248	0.34
FEB 14...	0.5	1.6	209	17	14	1.1	12	276	262	0.38
MAR 14...	0.5	1.7	191	17	15	1.0	11	246	246	0.33
APR 27...	0.5	1.7	170	15	12	1.1	11	224	216	0.30
MAY 18...	0.4	1.9	48	8.5	4.3	0.7	16	114	86	0.16
JUN 23...	0.3	1.0	43	5.1	1.9	0.6	14	92	69	0.13
JUL 28...	0.4	1.8	160	12	7.3	1.2	14	208	200	0.28
AUG 29...	0.4	1.9	194	11	7.4	1.3	14	230	227	0.31
SEP 20...	0.4	2.2	215	14	8.5	0.8	15	252	255	0.34

06751490 NORTH FORK CACHE LA POUUDRE RIVER AT LIVERMORE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 19...	4.77	<0.01	0.06	0.05	--	<0.20	--	<0.01	<0.01	0.01
NOV 16...	6.05	<0.01	<0.05	<0.02	--	<0.20	--	0.02	0.01	<0.01
DEC 14...	4.46	<0.01	<0.05	<0.02	--	<0.20	--	0.03	<0.01	<0.01
JAN 11...	2.80	<0.01	0.15	0.02	--	<0.20	--	0.02	0.03	<0.01
FEB 14...	3.50	<0.01	0.13	<0.02	--	<0.20	--	0.02	0.02	0.03
MAR 14...	3.08	<0.01	0.05	<0.02	0.30	0.30	0.35	0.02	<0.01	<0.01
APR 27...	3.03	--	--	--	0.20	0.20	0.20	0.03	--	--
MAY 18...	60.9	<0.01	0.22	0.02	1.2	1.2	1.4	0.18	0.02	0.02
JUN 23...	97.1	<0.01	<0.02	<0.02	0.40	0.40	0.40	0.04	0.03	<0.01
JUL 28...	8.76	<0.01	<0.05	0.02	0.28	0.30	0.30	<0.01	<0.01	<0.01
AUG 29...	6.64	<0.01	<0.05	<0.02	0.30	0.30	0.30	0.02	0.01	<0.01
SEP 20...	8.44	<0.01	<0.05	<0.02	0.20	0.20	0.20	<0.01	<0.01	<0.01

DATE	TIME	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 19...	1140	120	<0.5	40	--	--	<3	11	43
NOV 16...	1150	120	<0.5	40	1	<5	<3	<10	7
DEC 14...	1150	130	<0.5	50	<1	<5	<3	<10	7
JAN 11...	1115	120	<0.5	30	<1	<5	<3	<10	14
FEB 14...	1340	120	<0.5	40	<1	<5	<3	<10	12
MAR 14...	1130	120	<0.5	50	1	<5	<3	<10	16
APR 27...	1615	100	<0.5	--	<1	<5	<3	<10	42
MAY 18...	1545	40	<0.5	10	<1	<5	<3	<10	68
JUN 23...	1327	31	<0.5	10	<1	<5	<3	<10	240
JUL 28...	1105	100	<0.5	50	<1	<5	<3	<10	53
AUG 29...	1224	120	<0.5	40	<1	<5	<3	<10	35
SEP 20...	1114	130	<0.5	50	<1	<5	<3	<10	14

06751490 NORTH FORK CACHE LA POUFRE RIVER AT LIVERMORE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 19...	<10	--	16	<10	--	--	320	<6	--
NOV 16...	<10	14	9	<10	<10	<1	340	<6	<3
DEC 14...	<10	18	10	10	<10	<1	350	<6	<3
JAN 11...	<10	10	9	<10	<10	<1	330	<6	23
FEB 14...	10	13	11	<10	<10	<1	340	<6	<3
MAR 14...	10	9	20	20	<10	<1	330	<6	9
APR 27...	<10	13	9	<10	<10	<1	280	<6	8
MAY 18...	<10	6	22	<10	<10	<1	78	<6	7
JUN 23...	10	<4	15	<10	<10	<1	63	<6	10
JUL 28...	<10	11	11	<10	<10	<1	240	<6	5
AUG 29...	10	13	8	<10	<10	<1	280	<6	6
SEP 20...	<10	12	8	<10	<10	<1	330	<6	<3

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, DIS- SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI- MENT, DIS- SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 19...	1209	7.2	47	0.91	100
NOV 16...	1225	8.5	48	1.1	100
DEC 14...	1215	5.9	64	1.0	100
JAN 11...	1148	4.1	51	0.56	100
FEB 14...	1415	4.7	46	0.58	100
MAR 14...	1154	4.6	16	0.20	100
APR 27...	1644	5.0	10	0.14	100
MAY 18...	1606	198	645	345	100
JUN 23...	1442	380	116	119	--
JUL 28...	1225	16	11	0.46	100
AUG 29...	1259	11	121	3.5	100
SEP 20...	1232	12	138	4.6	100

06752000 CACHE LA POUVRE RIVER AT MOUTH OF CANYON, NEAR FORT COLLINS, CO

LOCATION.--Lat 40°39'52", long 105°13'26", in NW¹/₄ sec.15, T.8 N., R.70 W., Larimer County, Hydrologic Unit 10190007, on left bank at mouth of canyon, 0.5 mi downstream from headgate of Poudre Valley Canal, 1.2 mi upstream from Lewstone Creek, and 9.3 mi northwest of courthouse in Fort Collins.

DRAINAGE AREA.--1,056 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Streamflow records, June to August 1881, May to July 1883, October 1883 to current year. Monthly discharge only for some periods, published in WSP 1310. Records for Mar. 23 to Apr. 30 and July 4 to Aug. 20, 1883, published in WSP 9, have been found to be unreliable and should not be used. Prior to 1902, published as Cache la Poudre Creek or River at or near Fort Collins. Water-quality data available, June 1962 to October 1965, October 1971 to September 1982.

REVISED RECORDS.--WSP 1310: 1885-87, 1889, 1892, 1894-96, 1934. WSP 1730: 1960, drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,220 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 17 to Feb. 21, and Apr. 13-18. Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by transbasin and transmountain diversions (see elsewhere in this report), diversions upstream from station for irrigation of about 50,000 acres, most of which is downstream from station, 88,520 acre-ft diverted during current year, and diversions for municipal use, 14,250 acre-ft diverted during current year.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	21	28	22	23	25	30	43	2060	1920	585	359
2	27	17	60	21	24	20	27	37	1880	1750	542	313
3	28	22	62	22	24	21	31	44	1960	1730	526	307
4	33	23	36	21	29	38	30	49	2150	1470	508	290
5	27	13	22	22	26	30	34	43	2060	1280	546	276
6	23	25	31	20	23	38	35	49	2330	1320	499	290
7	31	30	23	23	23	26	36	57	2340	1420	571	279
8	28	32	25	23	24	28	36	70	2160	1550	583	310
9	24	25	12	19	23	28	33	70	2330	1640	581	313
10	21	15	15	24	24	29	34	68	2300	1930	572	302
11	21	18	24	31	21	30	22	111	2040	2010	592	325
12	21	22	24	26	18	29	20	161	2100	1970	604	267
13	21	28	31	24	20	25	21	167	2590	1790	582	231
14	18	21	35	22	23	21	21	168	3110	1660	555	224
15	18	6.8	34	23	27	22	22	176	3330	1580	586	224
16	18	6.0	37	30	31	24	22	153	3360	1430	556	214
17	26	15	32	26	28	27	25	220	3590	1090	523	219
18	27	18	21	22	27	26	30	240	4000	1020	545	240
19	19	23	21	21	26	25	27	234	3280	1010	518	198
20	12	28	22	21	26	26	26	251	2990	1140	506	128
21	15	34	22	18	27	20	26	269	2890	1170	515	171
22	13	36	22	19	33	21	29	278	2800	1120	569	96
23	17	21	19	18	22	25	24	493	2480	1060	610	90
24	21	13	21	18	27	21	26	558	2200	905	538	104
25	17	23	22	20	32	30	24	602	2040	669	509	97
26	18	37	22	22	34	34	29	1040	2000	629	456	93
27	17	29	23	26	37	36	28	1250	1790	622	434	92
28	18	10	23	24	29	23	22	1230	1780	636	437	118
29	22	11	22	23	---	34	20	1310	2090	564	423	93
30	24	15	26	24	---	16	35	1810	1910	471	415	91
31	28	---	22	21	---	24	---	2690	---	590	410	---
TOTAL	673	637.8	839	696	731	822	825	13941	73940	39146	16396	6354
MEAN	21.7	21.3	27.1	22.5	26.1	26.5	27.5	450	2465	1263	529	212
MAX	33	37	62	31	37	38	36	2690	4000	2010	610	359
MIN	12	6.0	12	18	18	16	20	37	1780	471	410	90
AC-FT	1330	1270	1660	1380	1450	1630	1640	27650	146700	77650	32520	12600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1881 - 1995, BY WATER YEAR (WY)

	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	90.8	60.8	44.4	40.3	42.5	52.7	149	931	1843	792	327	166																																																																																																							
MAX	270	148	125	158	138	149	743	2807	4811	2225	792	443																																																																																																							
(WY)	1943	1916	1984	1984	1984	1980	1900	1900	1884	1983	1884	1938																																																																																																							
MIN	21.7	8.14	12.6	9.00	10.2	10.6	19.5	204	442	158	61.2	37.3																																																																																																							
(WY)	1995	1939	1965	1930	1967	1939	1991	1977	1934	1966	1954	1962																																																																																																							

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1881 - 1995

ANNUAL TOTAL	75883.8	155000.8		
ANNUAL MEAN	208	425		
HIGHEST ANNUAL MEAN			891	1983
LOWEST ANNUAL MEAN			129	1977
HIGHEST DAILY MEAN	1590	Jun 1	4000	Jun 18
LOWEST DAILY MEAN	6.0	Nov 16	6.0	Nov 16
ANNUAL SEVEN-DAY MINIMUM	16	Oct 20	16	Oct 20
INSTANTANEOUS PEAK FLOW			4730	Jun 18
INSTANTANEOUS PEAK STAGE			7.03	Jun 18
ANNUAL RUNOFF (AC-FT)	150500	307400		
10 PERCENT EXCEEDS	734	1780	1200	
50 PERCENT EXCEEDS	46	31	90	
90 PERCENT EXCEEDS	21	20	24	

a-Also occurred Nov 28, 1948, caused by diversion of Poudre Valley Canal, 0.5 mi upstream.

b-Maximum discharge determined, caused by failure of Chambers Lake Dam, from reports of State Engineers Office.

c-Maximum discharge not determined, occurred May 20, 1904.

06752000 CACHE LA POUVRE RIVER AT MOUTH OF CANYON, NEAR FORT COLLINS, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

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

REMARKS.--Samples obtained on June 13, 20, 30 were collected off a bridge, 2.5 miles upstream from the gage. A diversion is located between the bridge and the gage. Diversion amounts were 280 ft³/s on June 13, 313 ft³/s on June 20, and 315 ft³/s on June 30. The published discharges are for the gage location.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT										
11...	1430	21	91	8.4	12.0	10.7	36	10	2.7	3.8
NOV										
22...	1315	34	119	7.8	0.0	14.2	50	14	3.6	4.7
DEC										
13...	0845	37	200	7.8	0.0	12.1	86	24	6.3	7.5
JAN										
05...	0940	21	174	7.8	0.0	13.0	71	20	5.0	6.1
FEB										
21...	1240	42	72	7.9	2.5	12.8	27	7.7	2.0	3.3
MAR										
16...	1330	25	117	8.1	11.5	9.9	46	13	3.4	4.9
APR										
10...	1300	41	165	8.2	4.5	12.9	68	19	4.9	6.4
MAY										
11...	1630	147	231	8.2	13.5	--	98	27	7.4	8.7
JUN										
13...	0900	3050	76	7.6	10.5	10.2	30	8.6	2.0	3.2
20...	1130	3100	45	7.4	9.5	9.1	17	4.9	1.1	2.0
30...	1015	2050	48	7.4	9.0	9.9	17	4.9	1.2	2.1
AUG										
10...	1145	584	39	7.4	17.0	8.5	15	4.3	0.9	1.5

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS TOT FET FIELD (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
OCT										
11...	0.9	36	3.4	1.6	0.3	9.1	57	<0.01	<0.05	<0.01
NOV										
22...	1.1	47	4.3	2.1	0.3	9.8	76	<0.01	0.13	0.02
DEC										
13...	6.0	86	6.6	3.8	0.5	13	122	<0.01	0.29	0.13
JAN										
05...	1.1	75	5.6	3.6	0.4	11	105	<0.01	0.21	0.02
FEB										
21...	0.7	28	2.3	1.6	0.2	8.4	43	<0.01	0.07	<0.01
MAR										
16...	1.0	43	4.6	2.5	0.3	8.4	64	<0.01	<0.05	<0.01
APR										
10...	1.2	62	5.7	3.5	0.5	9.3	104	<0.01	<0.05	<0.01
MAY										
11...	1.4	97	8.0	5.6	0.7	11	137	<0.01	0.07	0.04
JUN										
13...	0.8	27	4.8	1.3	0.3	13	68	<0.01	0.07	0.02
20...	0.7	16	2.3	0.7	0.2	8.7	51	<0.01	<0.05	0.02
30...	0.3	17	2.7	0.7	0.2	8.6	43	<0.01	0.08	<0.01
AUG										
10...	0.5	14	2.1	0.4	0.1	6.9	30	<0.01	<0.05	<0.01

A-Total Alkalinity, determined in field by fixed end-point titration method on filtered sample.

06752000 CACHE LA POUFRE RIVER AT MOUTH OF CANYON, NEAR FORT COLLINS, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDEDED TOTAL (MG/L AS C)
OCT 18...	1.4	0.50	0.57	0.22	0.22	54	14	5.0	2.5
OCT 11...	<0.20	<0.20	<0.01	0.01	<0.01	36	4	2.0	0.1
NOV 22...	<0.20	0.30	0.02	0.01	<0.01	50	3	2.6	0.2
DEC 13...	0.30	0.40	0.02	0.03	0.03	28	6	3.0	0.2
JAN 05...	<0.20	<0.20	<0.01	<0.01	<0.01	26	3	2.2	0.1
FEB 21...	<0.20	<0.20	<0.01	<0.01	<0.01	16	2	1.5	0.2
MAR 16...	<0.20	<0.20	<0.01	<0.01	<0.01	7	6	1.9	0.2
APR 10...	0.20	<0.20	<0.01	<0.01	<0.01	10	5	2.2	0.3
MAY 11...	0.50	0.30	0.04	0.02	<0.01	42	27	3.8	1.4
JUN 13...	0.40	0.30	0.01	0.02	0.01	260	10	8.4	2.1
JUN 20...	0.30	0.20	0.05	<0.01	<0.01	160	9	7.8	0.9
JUN 30...	0.30	<0.20	<0.01	<0.01	<0.01	92	3	6.3	0.6
AUG 10...	0.20	<0.20	0.03	<0.01	<0.01	39	3	2.3	0.3

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)
JUN 13...	0930	3300	68	606
JUN 20...	1100	3440	78	724

06752258 CACHE LA POUVRE RIVER AT SHIELDS STREET, AT FORT COLLINS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°36'11", long 105°05'43", in NE¹/4SE¹/4 sec.3, T.7 N., R.69 W., Larimer County, Hydrologic Unit 10190007, at Shields Street bridge, 0.8 mi downstream from Larimer-Weld Canal, and 1.0 mi northwest of Fort Collins.

PERIOD OF RECORD.--October 1979 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	ALKA-LINITY LAB (MG/L AS CACO3)
OCT 19...	1345	6.4	441	8.4	12.5	10.1	200	56	15	--	174
NOV 16...	1600	9.7	477	8.0	6.5	11.5	230	65	17	--	187
DEC 14...	1500	3.2	444	8.1	3.0	13.4	220	66	14	10	171
JAN 12...	1410	3.4	375	8.0	2.5	13.2	180	51	12	--	141
FEB 15...	1600	3.2	504	8.3	0.0	13.5	220	61	17	--	189
MAR 14...	1515	3.3	431	8.3	14.0	11.4	200	55	15	--	162
APR 26...	1540	5.1	432	8.5	14.0	10.3	200	52	16	--	169
MAY 11...	1519	9.6	359	--	12.5	9.6	160	44	13	--	128
JUL 27...	1714	465	70	8.0	15.0	8.7	29	8.8	1.6	2.4	28
AUG 24...	1030	83	94	7.8	16.0	8.0	32	9.5	2.1	--	34
SEP 20...	1506	17	192	8.2	11.0	10.0	81	23	5.6	--	73
SEP 29...	1137	10	316	8.5	13.5	13.0	130	38	9.6	--	--

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
OCT 19...	--	--	--	--	--	<0.01	0.83	0.05	<0.01	<0.01
NOV 16...	--	--	--	--	--	<0.01	0.92	0.02	<0.01	<0.01
DEC 14...	59	3.5	0.3	9.1	276	<0.01	0.60	<0.02	0.02	<0.01
JAN 12...	--	--	--	--	--	<0.01	0.37	<0.02	<0.01	<0.01
FEB 15...	--	--	--	--	--	0.01	1.0	0.04	<0.01	<0.01
MAR 14...	--	--	--	--	--	<0.01	0.55	<0.02	0.03	<0.01
APR 26...	--	--	--	--	--	0.02	0.99	0.04	<0.01	<0.01
MAY 11...	--	--	--	--	--	0.02	0.43	0.04	<0.01	<0.01
JUL 27...	4.4	0.7	0.2	4.6	42	<0.01	0.05	0.02	<0.01	<0.01
AUG 24...	--	--	--	--	--	<0.01	0.05	<0.02	<0.01	<0.01
SEP 20...	--	--	--	--	--	<0.01	0.23	0.02	<0.01	<0.01
SEP 29...	--	--	--	--	--	<0.01	0.34	<0.02	0.01	<0.01

06752258 CACHE LA POUVRE RIVER AT SHIELDS STREET, AT FORT COLLINS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT							
19...	1345	--	--	--	--	22	90
NOV							
16...	1600	--	--	--	--	1	170
DEC							
14...	1500	10	<1	<1	<1	<1	100
JAN							
12...	1410	--	--	--	--	<1	90
FEB							
15...	1600	--	--	--	--	2	170
MAR							
14...	1515	--	--	--	--	2	190
APR							
26...	1540	--	--	--	--	1	120
MAY							
11...	1519	--	--	--	--	<1	600
JUL							
27...	1714	80	<1	<1	<1	2	230
AUG							
24...	1030	--	--	--	--	2	180
SEP							
20...	1506	--	--	--	--	2	150
29...	1137	--	--	--	--	1	90

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT							
19...	--	--	--	--	--	<0.2	--
NOV							
16...	--	--	--	--	--	<0.2	--
DEC							
14...	<1	20	<0.1	<1	<1	<0.2	8
JAN							
12...	--	--	--	--	--	<0.2	--
FEB							
15...	--	--	--	--	--	<0.2	--
MAR							
14...	--	--	--	--	--	<0.2	--
APR							
26...	--	--	--	--	--	<0.2	--
MAY							
11...	--	--	--	--	--	<0.2	--
JUL							
27...	<1	20	<0.1	<1	<1	<0.2	8
AUG							
24...	--	--	--	--	--	<0.2	--
SEP							
20...	--	--	--	--	--	<0.2	--
29...	--	--	--	--	--	<0.2	--

06752260 CACHE LA POUDDRE RIVER AT FORT COLLINS, CO

LOCATION.--Lat 40°35'21", long 105°04'09", in SE¹/4NW¹/4 sec.12, T.7 N., R.69 W., Larimer County, Hydrologic Unit 10190007, on left bank 200 ft upstream from Lincoln Street Bridge in Fort Collins.

DRAINAGE AREA.--1,127 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1975 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,940 ft above sea level, from topographic map. Prior to Nov. 10, 1988 at site 4,300 ft upstream, at different datum. Prior to May 22, 1987, at site 300 ft downstream, at different datum.

REMARKS.--Estimated daily discharges: Oct. 19, 20, May 23 to June 1, June 15-21, and Sept. 23-26. Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, diversion for municipal supply, diversions upstream from station for irrigation, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	8.1	7.6	6.3	4.4	2.0	1.6	6.5	2000	1220	180	34
2	2.3	7.6	10	7.1	4.3	2.1	1.7	5.4	1640	1140	102	22
3	4.3	7.2	9.8	8.2	5.0	2.4	1.8	5.4	1580	1120	97	32
4	5.2	8.3	9.3	5.3	4.9	3.1	2.2	4.9	1730	793	109	50
5	5.3	8.3	6.9	7.3	4.9	2.5	2.3	11	1720	587	116	18
6	6.0	8.5	8.1	8.6	5.0	3.9	2.5	7.6	1850	501	57	38
7	2.9	7.5	6.5	7.6	7.2	3.0	2.9	7.9	1950	455	66	38
8	4.0	9.6	5.3	7.6	6.9	3.9	3.7	12	1940	426	67	116
9	4.5	9.9	4.6	5.9	7.4	3.3	2.1	5.5	2110	445	54	75
10	5.3	10	5.4	5.8	7.0	3.0	2.1	5.2	1800	545	56	22
11	4.0	11	7.6	6.3	5.8	3.0	2.4	4.6	1620	553	60	39
12	6.0	9.2	7.9	5.4	5.1	3.4	2.7	5.0	1650	480	59	41
13	4.7	9.1	5.5	5.7	4.2	3.5	2.7	3.7	1970	438	45	30
14	4.9	9.6	7.0	6.5	5.4	3.1	2.2	3.0	2420	386	30	29
15	6.9	9.6	12	7.4	5.0	2.8	1.6	3.1	2800	404	68	45
16	7.1	9.0	12	6.6	5.3	2.1	1.8	5.7	3100	390	46	65
17	8.7	8.8	11	7.3	5.9	1.8	5.5	23	3300	286	50	56
18	7.4	8.2	9.5	6.8	7.6	1.9	2.7	8.9	3500	355	69	61
19	7.0	9.0	8.8	5.2	5.0	2.2	4.4	6.8	3300	433	50	95
20	6.5	9.4	8.2	6.1	5.3	2.1	1.8	12	3100	472	25	45
21	6.1	9.4	7.9	5.5	5.6	1.6	1.6	14	2900	450	46	24
22	5.7	8.9	7.9	5.2	5.0	2.4	1.9	9.6	2670	361	70	14
23	5.5	7.5	7.7	5.0	5.2	1.1	2.8	18	2370	335	111	13
24	5.0	8.2	7.7	5.2	4.8	1.7	3.2	60	2090	206	77	14
25	7.2	8.4	7.6	5.3	4.5	1.9	2.2	180	1900	87	53	11
26	8.7	8.1	7.4	5.9	4.6	1.5	5.5	640	1810	142	75	3.0
27	9.3	6.7	7.5	5.1	3.2	1.2	4.4	1280	1490	238	51	2.6
28	7.4	4.9	7.7	4.5	1.8	1.4	9.6	1320	1300	348	32	1.3
29	7.5	6.8	7.2	5.4	---	1.6	12	1700	1430	388	32	7.0
30	7.4	7.2	7.6	3.9	---	1.7	17	2300	1240	363	23	4.9
31	7.1	---	7.4	5.6	---	1.8	---	2700	---	353	22	---
TOTAL	181.6	254.0	246.6	189.6	146.3	73.0	110.9	10368.8	64280	14700	1998	1045.8
MEAN	5.86	8.47	7.95	6.12	5.22	2.35	3.70	334	2143	474	64.5	34.9
MAX	9.3	11	12	8.6	7.6	3.9	17	2700	3500	1220	180	116
MIN	1.7	4.9	4.6	3.9	1.8	1.1	1.6	3.0	1240	87	22	1.3
AC-FT	360	504	489	376	290	145	220	20570	127500	29160	3960	2070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	20.7	22.0	19.7	26.0	26.9	30.7	109	442	935	260	62.7	26.5										
MAX	94.1	122	97.3	123	135	136	652	2720	4771	1450	290	105										
(WY)	1985	1985	1985	1984	1984	1980	1983	1980	1983	1983	1983	1983										
MIN	2.45	1.79	1.91	2.29	1.30	1.91	.37	14.9	158	39.2	12.8	4.79										
(WY)	1978	1978	1978	1978	1987	1988	1988	1976	1989	1988	1988	1987										

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1975 - 1995

ANNUAL TOTAL	23228.2	93594.6	
ANNUAL MEAN	63.6	256	168
HIGHEST ANNUAL MEAN			779
LOWEST ANNUAL MEAN			41.8
HIGHEST DAILY MEAN	937	Jun 1	3500
LOWEST DAILY MEAN	1.6	Sep 30	1.1
ANNUAL SEVEN-DAY MINIMUM	2.6	Sep 26	1.5
INSTANTANEOUS PEAK FLOW			not determined
INSTANTANEOUS PEAK STAGE			not determined
ANNUAL RUNOFF (AC-FT)	46070	185600	121500
10 PERCENT EXCEEDS	207	1170	345
50 PERCENT EXCEEDS	23	7.6	18
90 PERCENT EXCEEDS	5.1	2.4	2.7

a-Also occurred Aug 19, Sep 4, 18-19, 1987, and many days in 1988.
b-Site and datum then in use.
c-Maximum gage height, 9.15 ft, Jun 2, 1991, present site and datum.

06752260 CACHE LA POUVRE RIVER AT FORT COLLINS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1987 to current year.

pH: October 1987 to current year.

WATER TEMPERATURE: October 1987 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1987. Values recorded each 30 minutes.

REMARKS.--Unpublished maximum and minimum specific conductance data for period of daily record available in district office. Temperature, specific conductance and pH record rated poor.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 713 microsiemens, April 17, 1995; minimum, 40 microsiemens, July 11, 1995.

WATER TEMPERATURE: Maximum, 22.9 August 27, 1995; minimum 0.0°C many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	(STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS TOTAL (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	ALKA-LINITY LAB (MG/L AS CACO3)
OCT 20...	1030	7.6	524	8.0	8.0	9.9	220	60	17	--	193
NOV 15...	1300	9.6	545	8.0	5.0	12.1	260	72	20	--	212
DEC 13...	1310	5.1	556	8.1	1.5	12.6	270	76	19	19	201
JAN 10...	1400	5.6	565	8.1	1.5	12.3	250	70	19	--	200
FEB 15...	1240	6.3	580	8.0	2.0	12.5	250	67	19	--	203
MAR 15...	1110	3.1	562	8.3	10.5	10.6	240	64	20	--	191
APR 28...	1316	4.1	512	8.5	16.5	11.3	230	59	19	--	172
MAY 19...	1012	8.4	462	--	15.5	10.1	200	55	16	--	157
JUN 22...	1800	2430	55	7.8	11.5	--	22	6.4	1.5	--	20
JUL 26...	1315	178	87	8.1	16.0	8.5	34	10	2.1	3.0	33
AUG 24...	1115	71	110	7.8	16.0	--	--	--	--	--	--
SEP 21...	1148	29	241	8.1	7.5	10.3	98	28	6.8	--	83

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT 20...	--	--	--	--	--	<0.01	0.54	0.04	<0.01	0.01
NOV 15...	--	--	--	--	--	0.01	0.81	<0.02	0.02	<0.01
DEC 13...	83	10	0.4	10	353	<0.01	0.63	<0.02	<0.01	<0.01
JAN 10...	--	--	--	--	--	<0.01	0.65	0.02	<0.01	<0.01
FEB 15...	--	--	--	--	--	<0.01	0.83	0.02	<0.01	<0.01
MAR 15...	--	--	--	--	--	<0.01	0.44	0.02	0.02	<0.01
APR 28...	--	--	--	--	--	0.01	0.50	<0.02	0.01	<0.01
MAY 19...	--	--	--	--	--	0.01	0.30	0.02	<0.01	<0.01
JUN 22...	--	--	--	--	--	<0.01	0.03	0.02	0.01	<0.01
JUL 26...	6.9	1.0	0.2	5.2	48	<0.01	0.06	0.03	<0.01	0.01
AUG 24...	--	--	--	--	--	<0.01	0.08	<0.02	0.02	0.01
SEP 21...	--	--	--	--	--	<0.01	0.19	<0.02	0.01	<0.01

06752260 CACHE LA POUDE RIVER AT FORT COLLINS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT							
20...	1030	--	--	--	--	15	210
NOV							
15...	1300	--	--	--	--	1	290
DEC							
13...	1310	<10	<1	<1	<1	<1	230
JAN							
10...	1400	--	--	--	--	2	180
FEB							
15...	1240	--	--	--	--	1	250
MAR							
15...	1110	--	--	--	--	2	370
APR							
28...	1316	--	--	--	--	1	270
MAY							
19...	1012	--	--	--	--	<1	370
JUN							
22...	1800	--	--	--	--	4	1500
JUL							
26...	1315	80	<1	<1	<1	2	410
AUG							
24...	1115	--	--	--	--	1	180
SEP							
21...	1148	--	--	--	--	<1	230

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT							
20...	--	--	--	--	--	<0.2	--
NOV							
15...	--	--	--	--	--	<0.2	--
DEC							
13...	<1	50	<0.1	<1	<1	<0.2	8
JAN							
10...	--	--	--	--	--	<0.2	--
FEB							
15...	--	--	--	--	--	<0.2	--
MAR							
15...	--	--	--	--	--	<0.2	--
APR							
28...	--	--	--	--	--	<0.2	--
MAY							
19...	--	--	--	--	--	<0.2	--
JUN							
22...	--	--	--	--	--	<0.2	--
JUL							
26...	4	30	<0.1	<1	<1	<0.2	<3
AUG							
24...	--	--	--	--	--	<0.2	--
SEP							
21...	--	--	--	--	--	<0.2	--

06752260 CACHE LA POUVRE RIVER AT FORT COLLINS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	542	---	---	---	517	604	618	495	---	59	88	142
2	552	---	---	---	529	596	609	530	109	57	109	164
3	491	---	---	---	514	582	597	468	107	57	110	162
4	430	---	---	---	522	558	595	516	97	62	99	127
5	466	---	---	---	510	531	584	449	96	63	102	189
6	445	---	---	---	505	549	563	375	87	60	126	149
7	479	---	---	---	492	523	542	400	84	48	133	166
8	495	---	---	---	453	500	536	360	85	42	116	143
9	486	---	---	---	452	499	577	444	81	46	130	166
10	479	---	---	---	448	508	607	459	68	44	130	244
11	475	---	---	567	448	517	600	475	80	40	128	177
12	470	---	---	573	483	542	559	494	87	44	128	145
13	473	---	---	---	495	530	602	496	83	46	133	161
14	485	---	---	---	558	---	590	519	74	47	165	184
15	430	---	---	---	571	---	603	520	---	51	120	157
16	432	---	---	540	559	---	623	493	---	62	124	174
17	405	---	---	546	536	---	713	337	---	75	121	221
18	450	---	---	548	487	---	570	458	---	79	114	148
19	452	---	---	570	480	---	669	474	---	75	158	---
20	493	---	---	543	483	---	564	413	---	69	239	---
21	487	---	---	558	474	633	593	426	---	69	128	---
22	484	---	---	564	473	599	605	506	56	78	117	205
23	---	---	---	568	484	682	624	---	49	71	93	328
24	---	---	---	563	484	674	569	---	48	81	109	305
25	---	---	---	543	488	618	578	---	53	118	128	293
26	---	---	---	538	490	648	495	---	57	99	119	422
27	---	---	---	534	504	655	496	---	57	98	129	471
28	---	---	---	535	601	633	508	---	55	77	139	573
29	---	---	---	531	---	644	546	---	48	74	133	522
30	---	---	---	543	---	629	383	---	55	78	153	405
31	---	---	---	534	---	622	---	---	---	77	160	---
TOTAL	---	---	---	---	14040	---	17318	---	---	2046	3981	---
MEAN	---	---	---	---	501	---	577	---	---	66	128	---
MAX	---	---	---	---	601	---	713	---	---	118	239	---
MIN	---	---	---	---	448	---	383	---	---	40	88	---

06752260 CACHE LA POUVRE RIVER AT FORT COLLINS, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH					
1	17.1	14.2	10.7	6.8	6.0	2.0	1.5	.8	6.7	4.1	4.3	2.8				
2	18.2	12.8	10.3	7.5	5.8	2.1	1.6	.8	6.5	4.7	5.3	2.5				
3	14.5	13.1	7.9	5.6	5.7	2.1	1.2	.8	5.6	3.0	6.4	2.7				
4	13.7	13.0	7.0	5.2	5.5	2.8	1.5	.9	5.7	2.8	7.1	3.5				
5	15.8	13.1	9.8	5.4	3.9	1.7	1.6	.9	5.4	3.0	7.8	3.9				
6	16.5	12.4	9.0	5.8	3.4	1.9	1.5	.9	5.9	3.3	6.9	4.5				
7	15.6	11.3	10.6	6.0	3.3	1.1	1.5	.9	6.1	4.5	7.2	3.5				
8	16.5	10.7	8.8	6.6	3.9	1.2	2.3	.9	4.8	3.0	7.5	3.0				
9	16.2	9.8	8.1	6.2	2.7	.8	2.6	1.2	5.4	2.9	9.3	4.2				
10	16.5	10.1	9.2	6.1	2.7	.5	6.8	1.4	4.3	1.4	10.7	5.6				
11	17.0	10.3	10.2	5.6	1.6	.5	3.9	1.3	1.5	.9	11.7	7.2				
12	17.3	12.0	10.3	7.4	1.8	.5	3.7	1.5	1.2	.8	10.5	8.5				
13	13.9	11.3	10.1	7.0	2.7	.5	3.9	1.5	1.6	.8	11.0	6.5				
14	14.3	9.8	9.1	5.4	3.1	.4	3.9	1.2	1.4	.8	---	---				
15	11.9	10.4	7.4	3.5	1.2	.4	4.5	1.5	1.7	.8	---	---				
16	13.3	10.0	6.6	3.3	1.4	.5	3.5	2.0	2.0	.8	---	---				
17	11.1	8.8	6.2	2.6	3.0	.5	3.9	1.4	2.8	.8	---	---				
18	11.9	8.2	4.9	1.9	3.3	.5	2.8	1.2	4.1	1.3	---	---				
19	13.8	9.8	5.7	2.0	2.1	.8	3.7	1.3	5.6	1.8	---	---				
20	13.3	8.7	6.9	2.8	2.7	.5	4.7	2.0	7.0	2.9	---	---				
21	13.1	8.1	5.3	2.7	3.7	.6	3.6	1.4	7.8	3.9	13.9	8.5				
22	12.6	8.3	5.6	2.4	4.1	1.0	2.8	1.3	9.0	5.0	14.0	9.3				
23	12.9	7.7	5.5	1.5	2.4	.7	2.7	1.2	8.7	5.0	13.7	7.5				
24	11.1	7.3	4.6	1.7	4.1	1.1	2.0	1.2	9.1	4.9	14.4	8.1				
25	11.3	6.1	6.0	1.9	4.4	1.7	3.7	1.0	9.6	5.3	11.2	8.1				
26	12.0	6.8	6.5	2.7	5.4	2.3	4.0	1.8	9.7	6.4	9.1	6.2				
27	12.4	8.6	4.4	1.1	4.3	1.2	4.2	2.9	8.1	5.9	11.2	5.2				
28	13.7	8.9	3.6	1.3	3.8	.9	4.5	3.2	5.9	3.6	8.8	6.0				
29	11.8	7.6	3.1	1.0	3.4	1.2	4.7	2.4	---	---	6.9	5.1				
30	9.6	7.6	4.8	1.5	2.9	1.4	4.2	1.7	---	---	10.5	4.2				
31	10.4	5.8	---	---	1.8	.8	5.0	2.5	---	---	11.2	5.3				
MONTH	18.2	5.8	10.7	1.0	6.0	.4	6.8	.8	9.7	.8	---	---				
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	13.8	6.3	16.0	7.3	---	---	13.8	10.2	---	---	20.7	15.8				
2	12.6	7.9	18.6	10.0	13.0	10.1	13.3	11.3	---	---	21.1	17.0				
3	14.9	7.9	12.4	10.3	12.6	10.9	12.6	11.1	---	---	21.1	17.1				
4	15.8	8.7	17.6	8.7	11.9	10.9	13.9	10.4	---	---	20.4	15.6				
5	15.7	9.9	14.6	11.4	13.6	10.8	---	---	---	---	20.0	17.3				
6	14.7	10.1	18.3	12.0	13.4	10.9	---	---	---	---	19.1	14.5				
7	17.4	10.3	---	---	12.7	---	---	---	---	---	17.1	13.7				
8	17.1	11.7	---	---	11.7	9.3	17.0	13.1	---	---	16.4	12.7				
9	11.7	9.3	---	---	---	---	15.4	12.7	19.7	15.1	17.0	13.7				
10	9.8	6.2	---	---	---	---	16.5	13.6	20.4	14.2	17.9	15.6				
11	7.8	5.9	20.3	11.5	---	---	16.8	13.5	21.4	---	17.1	14.2				
12	13.6	4.9	17.6	13.3	---	---	17.5	14.0	21.5	15.9	17.6	12.9				
13	14.0	8.8	20.3	11.2	13.2	12.1	17.1	14.0	---	---	18.1	13.9				
14	14.2	9.3	18.5	11.2	12.9	11.5	14.5	12.4	---	---	19.2	15.6				
15	11.8	8.4	22.1	12.5	---	---	16.4	11.7	---	---	18.6	14.5				
16	12.5	8.2	18.0	14.0	---	---	16.1	12.9	---	---	17.5	14.3				
17	8.2	7.0	14.5	11.7	---	---	17.1	11.2	19.5	15.7	17.8	15.7				
18	12.4	6.1	16.4	10.2	---	---	14.6	12.2	20.4	15.1	16.7	10.8				
19	9.6	7.0	19.5	12.8	---	---	13.4	10.8	20.0	15.8	---	---				
20	12.0	6.9	16.4	10.4	---	---	15.2	10.8	22.7	17.9	---	---				
21	10.6	8.8	21.0	11.9	---	---	15.8	11.9	21.1	15.3	---	---				
22	9.5	8.0	15.8	11.9	12.3	10.9	---	---	20.8	16.3	---	---				
23	8.9	6.4	---	---	12.2	9.9	---	---	19.6	14.9	---	---				
24	15.0	6.3	---	---	12.2	10.6	---	---	---	15.4	---	---				
25	11.4	9.2	---	---	13.0	10.0	---	---	---	---	---	---				
26	12.2	6.9	---	---	14.6	10.8	---	---	21.3	15.9	---	---				
27	15.7	8.0	---	---	13.4	11.4	18.2	11.0	22.9	16.8	17.9	11.0				
28	16.9	10.9	---	---	12.3	10.7	17.7	10.9	---	---	14.2	10.0				
29	12.4	9.3	---	---	10.8	9.5	---	---	---	---	15.9	11.7				
30	13.4	8.3	---	---	10.4	9.3	14.6	10.1	21.8	15.9	14.6	11.2				
31	---	---	---	---	---	---	---	---	21.3	15.3	---	---				
MONTH	17.4	4.9	---	---	---	---	---	---	---	---	---	---				

06752270 CACHE LA POUDDRE RIVER BELOW FORT COLLINS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°34'01", long 105°01'36", in NW¹/4NE¹/4 sec.20, T.7 N., R.68 W., Larimer County, Hydrologic Unit 10190007, 1.4 mi west of Interstate 25 on Prospect Street in Fort Collins.

DRAINAGE AREA.--1,240 mi².

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	ALKA-LINITY LAB (MG/L AS CACO3)
OCT 20...	1535	11	642	8.5	12.0	13.0	300	85	22	--	226
NOV 17...	1450	6.1	767	8.5	5.5	15.8	380	100	32	--	250
DEC 15...	1515	6.3	813	8.1	3.0	13.8	410	110	32	32	277
JAN 11...	1445	8.6	816	8.1	6.0	13.8	370	98	30	--	271
FEB 16...	1510	4.1	904	8.2	3.5	--	380	100	31	--	271
MAR 16...	1030	7.0	809	8.3	10.5	12.4	360	92	32	--	244
APR 26...	1110	11	704	8.4	9.0	13.8	300	78	26	--	229
MAY 19...	1300	5.6	539	--	19.0	10.3	230	62	19	--	146
JUN 22...	1343	2640	59	7.7	12.5	--	24	6.8	1.6	--	21
JUL 21...	1125	608	88	8.0	13.5	8.9	34	10	2.3	3.1	32
AUG 24...	1100	92	199	8.2	17.5	8.5	--	--	--	--	--
SEP 19...	1517	170	160	8.1	13.5	9.8	63	18	4.3	--	57

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
OCT 20...	--	--	--	--	--	<0.01	1.5	0.08	0.04	0.04
NOV 17...	--	--	--	--	--	0.01	1.8	0.02	<0.01	<0.01
DEC 15...	160	14	0.7	11	515	0.01	2.1	0.05	0.01	<0.01
JAN 11...	--	--	--	--	--	0.02	2.0	0.10	0.01	<0.01
FEB 16...	--	--	--	--	--	0.02	2.4	0.23	0.02	0.03
MAR 16...	--	--	--	--	--	0.03	1.1	0.12	0.04	0.02
APR 26...	--	--	--	--	--	0.03	1.5	0.05	0.05	0.04
MAY 19...	--	--	--	--	--	0.03	0.58	0.10	0.03	0.04
JUN 22...	--	--	--	--	--	<0.01	0.03	0.02	0.02	<0.01
JUL 21...	8.5	1.1	0.20	6.4	56	<0.01	0.07	0.02	<0.01	<0.01
AUG 24...	--	--	--	--	--	<0.01	0.12	<0.02	<0.01	<0.01
SEP 19...	--	--	--	--	--	<0.01	0.14	<0.02	<0.01	<0.01

06752270 CACHE LA POUDDRE RIVER BELOW FORT COLLINS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT							
20...	1535	--	--	--	--	12	310
NOV							
17...	1450	--	--	--	--	<1	320
DEC							
15...	1515	<10	<1	<1	2	<1	280
JAN							
11...	1445	--	--	--	--	<1	280
FEB							
16...	1510	--	--	--	--	<1	360
MAR							
16...	1030	--	--	--	--	1	360
APR							
26...	1110	--	--	--	--	<1	490
MAY							
19...	1300	--	--	--	--	<1	530
JUN							
22...	1343	--	--	--	--	2	1000
JUL							
21...	1125	60	<1	<1	<1	1	410
AUG							
24...	1100	--	--	--	--	1	230
SEP							
19...	1517	--	--	--	--	1	330

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT							
20...	--	--	--	--	--	<0.2	--
NOV							
17...	--	--	--	--	--	<0.2	--
DEC							
15...	<1	50	<0.1	<1	2	<0.2	9
JAN							
11...	--	--	--	--	--	<0.2	--
FEB							
16...	--	--	--	--	--	<0.2	--
MAR							
16...	--	--	--	--	--	<0.2	--
APR							
26...	--	--	--	--	--	<0.2	--
MAY							
19...	--	--	--	--	--	<0.2	--
JUN							
22...	--	--	--	--	--	<0.2	--
JUL							
21...	2	20	<0.1	<1	<1	<0.2	<3
AUG							
24...	--	--	--	--	--	<0.2	--
SEP							
19...	--	--	--	--	--	<0.2	--

06752280 CACHE LA POUFRE RIVER ABOVE BOX ELDER CREEK, NEAR TIMNATH, CO

LOCATION.--Lat 40°33'07", long 105°00'39", in NE¹/₄NW¹/₄ sec.28, T.7 N., R.68 W., Larimer County, Hydrologic Unit 10190007, on right bank 4,000 ft upstream from Box Elder Creek, 2.0 mi upstream from Interstate Highway 25 bridge, and 3.8 mi southeast of intersection of College Avenue and Prospect Street in Fort Collins.

DRAINAGE AREA.--1,245 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,860 ft above sea level, from topographic map. Prior to March 24, 1994, at site 1,900 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, diversion for municipal supply, diversions upstream from station for irrigation, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	5.6	4.2	4.0	3.7	9.3	3.8	12	2220	1270	149	8.5
2	3.5	4.7	4.5	3.7	3.7	9.3	4.2	3.9	1960	1170	68	11
3	3.6	5.9	4.6	3.8	3.5	9.3	3.8	4.9	1980	1200	52	8.2
4	7.2	6.3	4.6	3.8	4.0	8.9	2.6	3.3	2060	955	62	22
5	4.5	5.2	4.6	3.6	3.8	8.7	2.5	2.3	2050	677	79	17
6	5.5	4.7	4.6	3.5	3.8	11	2.4	3.4	2150	557	39	7.5
7	4.3	4.6	4.4	3.4	4.0	11	2.4	2.2	2200	471	29	18
8	4.5	4.7	3.9	3.4	3.7	9.2	2.3	16	2310	335	38	11
9	4.5	5.7	3.8	3.2	3.3	9.5	2.1	5.2	2560	364	25	136
10	4.3	4.8	3.8	3.1	3.5	9.5	2.4	3.3	2650	456	23	21
11	4.0	4.6	3.8	3.1	4.0	8.9	2.1	2.7	2380	478	19	7.9
12	4.0	4.3	3.8	3.4	3.7	8.1	2.4	2.6	2290	387	31	23
13	5.0	4.6	3.8	3.2	3.5	8.5	2.4	2.7	2520	351	22	20
14	5.2	4.6	3.9	3.1	3.5	8.4	2.3	2.6	2840	283	13	10
15	8.4	4.3	3.8	3.0	3.5	8.4	2.1	2.8	3000	306	31	12
16	6.0	4.2	3.8	2.9	3.5	8.2	2.4	2.5	2980	288	20	31
17	12	4.2	3.8	2.9	3.5	8.5	4.7	46	3150	222	24	32
18	6.4	4.4	3.8	3.1	4.2	8.9	7.0	15	3390	243	31	34
19	4.7	4.8	3.8	3.0	5.1	8.3	13	9.2	2990	335	28	50
20	4.3	5.1	3.8	2.9	3.9	8.4	11	26	2630	379	11	77
21	4.6	5.1	3.8	3.5	3.8	8.0	8.7	29	2450	368	16	41
22	4.3	4.8	3.8	3.4	5.0	7.6	8.0	25	2420	297	20	13
23	4.3	4.4	4.1	3.4	9.9	7.4	7.6	31	2180	276	65	11
24	4.5	4.0	4.2	3.5	9.6	7.3	11	134	1950	176	44	15
25	4.9	3.8	4.2	3.4	9.6	7.7	7.4	264	1800	67	25	11
26	5.3	3.9	4.0	3.5	9.2	7.3	4.2	764	1680	85	35	6.8
27	5.8	3.6	4.0	3.6	9.2	7.2	3.8	1210	1470	181	17	5.8
28	6.1	3.9	4.1	3.5	10	8.0	2.8	1190	1320	279	15	5.6
29	6.4	3.9	4.4	3.7	---	8.9	7.7	1320	1440	330	11	5.8
30	5.6	4.2	4.5	3.7	---	8.4	28	1920	1280	305	9.1	7.4
31	6.1	---	4.5	3.8	---	3.5	---	2650	---	307	8.1	---
TOTAL	163.2	138.9	126.7	105.1	141.7	261.6	167.1	9705.6	68300	13398	1059.2	679.5
MEAN	5.26	4.63	4.09	3.39	5.06	8.44	5.57	313	2277	432	34.2	22.6
MAX	12	6.3	4.6	4.0	10	11	28	2650	3390	1270	149	136
MIN	3.4	3.6	3.8	2.9	3.3	3.5	2.1	2.2	1280	67	8.1	5.6
AC-FT	324	276	251	208	281	519	331	19250	135500	26570	2100	1350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1995, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	14.2	24.2	21.8	25.0	26.2	33.0	123	448	931	236	39.3	24.1				
MAX	55.0	122	114	139	156	159	633	2729	4430	1288	248	121				
(WY)	1985	1985	1985	1984	1984	1980	1980	1980	1983	1983	1983	1983				
MIN	3.55	4.45	3.99	3.39	3.76	4.38	3.45	8.66	85.8	5.94	4.27	3.61				
(WY)	1992	1991	1991	1995	1992	1991	1991	1982	1989	1987	1987	1988				

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1980 - 1995

ANNUAL TOTAL	11057.2	94246.6		
ANNUAL MEAN	30.3	258		
HIGHEST ANNUAL MEAN			700	1983
LOWEST ANNUAL MEAN			19.4	1989
HIGHEST DAILY MEAN	544	Jun 1	3390	Jun 18
LOWEST DAILY MEAN	2.7	Sep 27	^a 2.1	Apr 9
ANNUAL SEVEN-DAY MINIMUM	3.0	Sep 24	2.3	Apr 9
INSTANTANEOUS PEAK FLOW			3720	Jun 18
INSTANTANEOUS PEAK STAGE			10.25	Jun 18
ANNUAL RUNOFF (AC-FT)	21930	186900		
10 PERCENT EXCEEDS	98	1190		301
50 PERCENT EXCEEDS	5.0	7.2		8.6
90 PERCENT EXCEEDS	3.6	3.4		4.0

a-Also occurred Apr 11, 15.
b-Maximum gage height, 10.25 ft, Jun 18, 1995.

06752280 CACHE LA POUUDRE RIVER ABOVE BOX ELDER CREEK NEAR TIMNATH, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1979 to current year.

WATER-QUALITY DATA WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	ALKA-LINITY LAB (MG/L AS CACO3)
OCT											
19...	1540	4.6	2360	8.1	11.5	10.6	1200	300	100	--	223
NOV											
17...	1050	4.2	2470	8.0	3.0	11.9	1400	360	120	--	238
DEC											
15...	1130	3.7	2540	8.0	3.0	14.6	1400	350	120	120	258
JAN											
12...	1030	3.5	2390	7.7	2.5	11.8	1300	330	110	--	240
FEB											
16...	1120	3.5	2490	7.8	0.5	101	1200	330	100	--	235
MAR											
15...	1450	8.5	1300	8.3	11.0	11.2	610	150	57	--	219
APR											
27...	1108	3.9	2080	8.3	10.0	12.8	1000	260	89	--	176
MAY											
18...	1048	14	1220	--	11.5	8.2	550	140	48	--	152
JUN											
27...	1127	1600	95	7.9	12.5	--	34	9.9	2.3	--	28
JUL											
27...	1250	156	201	8.1	16.0	8.7	79	22	5.8	7.2	48
AUG											
24...	1115	58	399	8.1	19.0	7.2	--	--	--	--	--
SEP											
29...	1641	5.6	1640	8.1	17.0	9.8	800	210	66	--	206

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
OCT										
19...	--	--	--	--	--	<0.01	1.6	0.27	0.01	<0.01
NOV										
17...	--	--	--	--	--	0.03	1.8	0.20	0.01	<0.01
DEC										
15...	1300	24	1.1	13	2260	0.03	2.5	0.15	<0.01	<0.01
JAN										
12...	--	--	--	--	--	0.03	2.4	0.14	<0.01	<0.01
FEB										
16...	--	--	--	--	--	0.02	2.2	0.06	<0.01	<0.01
MAR										
15...	--	--	--	--	--	0.02	0.79	0.02	0.01	<0.01
APR										
27...	--	--	--	--	--	0.02	0.86	0.03	0.02	<0.01
MAY										
18...	--	--	--	--	--	0.02	0.50	0.10	<0.01	<0.01
JUN										
27...	--	--	--	--	--	<0.01	0.03	0.02	<0.01	0.01
JUL										
27...	41	2.2	0.2	5.3	120	<0.01	0.14	0.03	<0.01	<0.01
AUG										
24...	--	--	--	--	--	0.01	0.21	0.02	<0.01	<0.01
SEP										
29...	--	--	--	--	--	0.03	2.1	0.04	<0.01	<0.01

06752280 CACHE LA POUFRE RIVER ABOVE BOX ELDER CREEK NEAR TIMNATH, CO--Continued

WATER-QUALITY DATA WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT							
19...	1540	--	--	--	--	15	210
NOV							
17...	1050	--	--	--	--	1	190
DEC							
15...	1130	<10	<1	<1	1	<1	130
JAN							
12...	1030	--	--	--	--	<1	130
FEB							
16...	1120	--	--	--	--	<1	250
MAR							
15...	1450	--	--	--	--	<1	230
APR							
27...	1108	--	--	--	--	<1	250
MAY							
18...	1048	--	--	--	--	<1	490
JUN							
27...	1127	--	--	--	--	4	1800
JUL							
27...	1250	40	<1	<1	<1	2	300
AUG							
24...	1115	--	--	--	--	1	450
SEP							
29...	1641	--	--	--	--	<1	370

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT							
19...	--	--	--	--	--	<0.2	--
NOV							
17...	--	--	--	--	--	<0.2	--
DEC							
15...	<1	40	<0.1	<1	11	<0.2	<10
JAN							
12...	--	--	--	--	--	<0.2	--
FEB							
16...	--	--	--	--	--	<0.2	--
MAR							
15...	--	--	--	--	--	<0.2	--
APR							
27...	--	--	--	--	--	<0.2	--
MAY							
18...	--	--	--	--	--	<0.2	--
JUN							
27...	--	--	--	--	--	<0.2	--
JUL							
27...	3	30	<0.1	<1	<1	<0.2	4
AUG							
24...	--	--	--	--	--	<0.2	--
SEP							
29...	--	--	--	--	--	<0.2	--
XX24...	--	--	--	--	--	<0.2	--
SEP							
29...	--	--	--	--	--	<0.2	--

06752500 CACHE LA POUDDRE RIVER NEAR GREELEY, CO

LOCATION.--Lat 40°25'04", long 104°38'22", in NW¹/₄ sec.11, T.5 N., R.65 W., Weld County, Hydrologic Unit 10190007, on right bank 25 ft downstream from highway bridge, 2.9 mi east of courthouse in Greeley, and 3.0 mi upstream from mouth.

DRAINAGE AREA.--1,877 mi².

PERIOD OF RECORD.--Streamflow records, March to October 1903, August to November 1904, January 1914 to December 1919, June 1924 to current year. Monthly discharge only for some periods, published in WSP 1310. Water-quality data available, November 1951 to September 1952, August 1954 to August 1956, December 1963 to September 1966, October 1967 to September 1968, October 1970 to September 1982.

REVISED RECORDS.--WSP 1440: 1935, 1938(M), 1942-43. WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,610 ft above sea level, from topographic map. See WSP 1710 or 1730 for history of changes prior to Dec. 14, 1933.

REMARKS.--Estimated daily discharges: Mar. 23-27, Aug. 13,14, 26-28. Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, diversion for municipal supply, diversions upstream from station for irrigation of about 250,000 acres, and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	96	89	83	85	77	95	78	2630	1590	111	79
2	39	96	89	91	84	77	87	82	2340	1490	106	77
3	47	99	88	93	79	78	90	88	2180	1500	108	74
4	66	103	92	89	77	78	90	75	2010	1450	105	72
5	97	97	96	90	77	78	87	54	2060	1000	103	80
6	127	94	95	92	80	79	79	54	1990	643	87	82
7	106	94	95	93	77	78	79	51	2190	428	75	89
8	104	97	94	92	77	77	76	48	2480	285	73	102
9	101	95	93	93	77	78	71	43	2770	200	93	116
10	100	96	93	94	75	79	74	47	3050	310	85	124
11	100	96	92	96	75	78	78	33	3090	391	79	98
12	105	96	92	96	72	78	89	30	2610	297	71	113
13	106	90	93	94	71	78	90	28	2220	190	66	124
14	108	92	93	92	71	79	90	25	2470	172	66	119
15	123	94	91	91	70	80	81	22	2950	190	78	116
16	114	94	92	91	71	81	73	19	3180	157	76	110
17	132	93	93	89	72	81	74	38	3190	136	74	104
18	132	94	92	90	73	81	83	66	3510	129	77	108
19	124	94	93	88	74	81	90	68	3850	166	73	156
20	114	90	91	89	74	87	91	85	3550	267	66	170
21	119	92	93	87	75	89	68	187	3030	339	65	166
22	115	94	94	85	76	81	48	120	2950	332	73	162
23	108	92	93	85	76	80	47	94	2820	219	72	130
24	105	89	93	85	77	80	43	86	2450	195	72	114
25	101	91	91	84	78	80	46	181	2050	155	71	108
26	103	91	91	83	77	78	49	388	1870	134	64	108
27	106	86	93	82	77	90	47	1120	1780	131	62	102
28	107	86	92	80	77	94	49	1270	1640	118	73	102
29	97	84	92	79	---	95	48	1290	1700	113	73	139
30	99	91	94	78	---	95	62	1440	1780	99	72	146
31	96	---	94	84	---	94	---	1990	---	97	74	---
TOTAL	3140	2796	2866	2738	2124	2539	2174	9200	76390	12923	2443	3390
MEAN	101	93.2	92.5	88.3	75.9	81.9	72.5	297	2546	417	78.8	113
MAX	132	103	96	96	85	95	95	1990	3850	1590	111	170
MIN	39	84	88	78	70	77	43	19	1640	97	62	72
AC-FT	6230	5550	5680	5430	4210	5040	4310	18250	151500	25630	4850	6720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1995, BY WATER YEAR (WY)

MEAN	95.1	113	105	95.0	102	104	114	220	472	102	49.5	55.2
MAX	337	368	237	249	311	343	836	3045	4786	1475	329	187
(WY)	1962	1962	1985	1984	1984	1980	1983	1980	1983	1983	1983	1984
MIN	7.13	6.63	34.5	37.4	38.1	33.9	7.77	9.58	9.45	13.0	5.43	9.53
(WY)	1935	1935	1935	1935	1935	1935	1935	1954	1977	1954	1940	1948

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1903 - 1995
ANNUAL TOTAL	32215.4	122723	
ANNUAL MEAN	88.3	336	134
HIGHEST ANNUAL MEAN			872
LOWEST ANNUAL MEAN			27.9
HIGHEST DAILY MEAN	453	3850	6090
LOWEST DAILY MEAN	7.4	19	.80
ANNUAL SEVEN-DAY MINIMUM	10	28	1.5
INSTANTANEOUS PEAK FLOW		4050	6360
INSTANTANEOUS PEAK STAGE		8.30	a8.92
ANNUAL RUNOFF (AC-FT)	63900	243400	97040
10 PERCENT EXCEEDS	156	1350	189
50 PERCENT EXCEEDS	92	92	75
90 PERCENT EXCEEDS	20	71	15

a-Maximum gage height, 8.95 ft, Jun 22, 1983.

PLATTE RIVER BASIN

06753400 LONETREE CREEK AT CARR, CO
(National Water-Quality Assessment Program station)

LOCATION.--Lat 40°53'54", long 104°52'03", in NE¹/4NE¹/4 sec.27, T.11 N., R.67 W., Weld County, Hydrologic Unit 10190008, on left bank upstream from bridge on Weld County Road 126, at the east end of Carr.

DRAINAGE AREA.--167 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1993 to September 1995 (Discontinued).

GAGE.--Water-stage recorder. Concrete control since Sept. 2, 1993. Elevation of gage is 5,670 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 9 to Feb. 23, Mar. 2-8, and Aug. 21 to Sept. 12. Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	.44	.32	.29	.31	.42	.46	.71	1.4	1.4	.77	.31
2	.37	.62	.31	.30	.31	.42	.43	.56	1.4	1.3	.68	.32
3	.51	.62	.31	.29	.30	.43	.44	.81	1.9	1.2	.58	.33
4	4.7	.66	.30	.30	.30	.43	.43	.72	1.7	1.3	.59	.34
5	1.3	.68	.31	.28	.27	.42	.42	.55	2.7	1.3	.66	.31
6	.74	.68	.30	.30	.27	.42	.40	.57	1.6	1.2	.76	.29
7	.46	.68	.30	.33	.26	.42	.41	.71	1.4	1.1	.62	.26
8	.37	.67	.30	.36	.26	.45	.39	.97	1.9	1.0	.53	.28
9	.32	.64	.29	.39	.27	.48	.37	.79	3.2	1.0	.46	.30
10	.27	.60	.29	.41	.27	.48	.39	.61	4.4	1.0	.46	.33
11	.27	.53	.29	.42	.28	.48	.44	.60	5.0	.93	.45	.34
12	.25	.50	.29	.38	.28	.46	.48	.59	3.0	.83	.44	.32
13	.24	.45	.29	.34	.29	.42	.46	.59	2.1	.83	.44	.27
14	.25	.40	.30	.33	.30	.42	.43	.54	1.6	2.8	.40	.25
15	.38	.37	.33	.32	.31	.42	.42	.55	1.3	3.6	.41	.24
16	.58	.35	.32	.32	.32	.42	.42	.54	1.2	1.4	.41	.22
17	.64	.34	.32	.32	.34	.42	.54	1.8	1.1	1.2	.37	.21
18	.66	.34	.32	.31	.39	.43	.60	1.4	1.5	1.3	.35	.28
19	.54	.34	.31	.32	.60	.43	.55	1.2	1.2	1.2	.32	.74
20	.47	.34	.29	.34	.58	.41	.55	1.4	1.1	1.4	.34	.78
21	.43	.34	.27	.33	.50	.44	.52	1.2	1.0	1.4	.35	.68
22	.39	.34	.27	.33	.46	.42	.49	1.0	1.1	1.4	.35	.72
23	.39	.34	.28	.33	.45	.36	.48	.98	1.3	1.1	.36	.61
24	.42	.33	.30	.34	.44	.39	.48	1.1	1.4	1.0	.37	.54
25	.42	.33	.29	.32	.44	.37	.48	1.3	1.4	.88	.37	.54
26	.43	.34	.29	.32	.44	.37	.46	1.7	1.1	.80	.35	.53
27	.45	.33	.28	.32	.42	.34	.48	1.5	1.0	.70	.35	.49
28	.42	.32	.28	.32	.42	.42	.49	1.2	1.1	.64	.33	.48
29	.37	.32	.29	.32	---	.42	.54	1.4	1.5	.60	.33	.52
30	.37	.31	.30	.33	---	.46	.78	2.2	1.4	.57	.32	.54
31	.42	---	.30	.34	---	.48	---	1.9	---	.69	.31	---
TOTAL	18.09	13.55	9.24	10.25	10.08	13.15	14.23	31.69	53.0	37.07	13.83	12.37
MEAN	.58	.45	.30	.33	.36	.42	.47	1.02	1.77	1.20	.45	.41
MAX	4.7	.68	.33	.42	.60	.48	.78	2.2	5.0	3.6	.77	.78
MIN	.24	.31	.27	.28	.26	.34	.37	.54	1.0	.57	.31	.21
AC-FT	36	27	18	20	20	26	28	63	105	74	27	25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995, BY WATER YEAR (WY)

	1993	1994	1995	1994	1995	1994	1995	1995	1995	1995	1995	1995
MEAN	.57	.49	.38	.36	.44	.61	.68	.72	.99	.56	.25	.30
MAX	.58	.53	.45	.38	.52	.80	.81	1.02	1.77	1.20	.45	.41
(WY)	1995	1994	1994	1994	1994	1994	1993	1995	1995	1995	1995	1995
MIN	.56	.45	.30	.33	.36	.42	.47	.46	.47	.11	.15	.14
(WY)	1994	1995	1995	1995	1995	1995	1995	1993	1994	1994	1994	1994

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1993 - 1995
ANNUAL TOTAL	162.16	236.55	
ANNUAL MEAN	.44	.65	.55
HIGHEST ANNUAL MEAN			.65
LOWEST ANNUAL MEAN			.46
HIGHEST DAILY MEAN	4.7 Oct 4	5.0 Jun 11	5.0 Jun 11 1995
LOWEST DAILY MEAN	.02 Jul 11	.21 Sep 17	.02 Jul 31 1993
ANNUAL SEVEN-DAY MINIMUM	.04 Jul 7	.26 Sep 12	.03 Jul 28 1993
INSTANTANEOUS PEAK FLOW	14 Oct 4	14 Oct 4	14 Oct 4 1994
INSTANTANEOUS PEAK STAGE	5.46 Oct 4	5.46 Oct 4	5.46 Oct 4 1994
ANNUAL RUNOFF (AC-FT)	322	469	402
10 PERCENT EXCEEDS	.79	1.3	.95
50 PERCENT EXCEEDS	.38	.43	.43
90 PERCENT EXCEEDS	.10	.29	.15

a-Also occurred Jul 11, 1994.

06753400 LONETREE CREEK AT CARR,CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1993 to September 1995 (Discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS, TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT										
12...	1130	0.27	469	8.0	10.5	10.4	200	61	11	19
NOV										
23...	0900	0.34	679	8.1	1.0	10.5	260	80	15	29
DEC										
13...	1410	0.31	610	8.2	3.0	10.9	250	77	15	26
JAN										
05...	1400	0.28	572	8.0	0.5	11.2	240	73	13	24
FEB										
16...	1110	0.32	555	8.1	1.0	11.7	230	71	13	25
MAR										
16...	0845	0.42	519	8.0	7.5	9.1	220	66	13	25
APR										
10...	1500	0.37	512	8.2	4.0	11.2	210	64	13	24
MAY										
08...	1210	0.98	523	8.0	9.5	9.7	220	67	13	27
JUN										
06...	1100	1.6	575	8.0	18.5	7.6	230	68	15	29
JUL										
05...	1030	1.4	602	8.1	15.5	7.5	240	72	15	28

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-A LINITY WAT DIS TOT FET FIELD (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
OCT										
12...	6.8	193	32	10	0.7	22	299	<0.01	0.30	0.03
NOV										
23...	6.3	240	31	16	0.8	28	384	<0.01	0.33	0.02
DEC										
13...	9.3	259	27	14	0.8	26	353	0.01	0.49	<0.01
JAN										
05...	5.4	259	23	13	0.7	26	347	<0.01	0.49	0.02
FEB										
16...	5.4	250	22	13	0.7	23	335	<0.01	0.46	0.02
MAR										
16...	5.2	225	22	13	0.7	20	306	<0.01	0.16	<0.01
APR										
10...	5.3	220	20	12	0.8	21	310	0.01	0.21	0.02
MAY										
08...	6.0	224	18	14	0.7	22	316	<0.01	0.08	0.03
JUN										
06...	6.8	249	20	16	0.7	26	354	<0.01	0.05	0.02
JUL										
05...	6.3	251	21	18	0.7	26	373	<0.01	0.09	0.02

A-Total alkalinity, determined in field by fixed end-point titration method on filtered sample.

PLATTE RIVER BASIN

06753400 LONETREE CREEK AT CARR,CO--Continued
 (National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT 12...	0.30	0.30	0.02	<0.01	<0.01	48	15	4.7	0.3
NOV 23...	0.20	<0.20	<0.01	<0.01	<0.01	37	17	2.9	0.2
DEC 13...	<0.20	<0.20	<0.01	0.02	<0.01	35	23	2.7	0.2
JAN 05...	<0.20	<0.20	<0.01	<0.01	<0.01	29	24	2.1	0.1
FEB 16...	<0.20	<0.20	<0.01	<0.01	0.01	40	24	2.2	0.2
MAR 16...	0.20	<0.20	<0.01	<0.01	<0.01	31	12	2.6	0.3
APR 10...	0.30	<0.20	0.01	<0.01	<0.01	40	21	2.6	0.5
MAY 08...	0.30	0.30	0.01	<0.01	<0.01	47	24	4.4	0.3
JUN 06...	0.40	0.20	<0.01	<0.01	<0.01	59	28	6.1	0.4
JUL 05...	0.50	0.30	<0.01	<0.01	<0.01	12	15	5.6	0.4

06753990 LONETREE CREEK NEAR GREELEY, CO

LOCATION.--Lat 40°26'33", long 104°35'18", in NE1/4 NW1/4 sec.31, T.6N, R.64W, Weld County, Hydrologic Unit 10190008 on right bank 50 ft downstream from bridge on Weld County Rd. 62 1/2, 5.5 mi east of Greeley.

DRAINAGE AREA.--567 mi².

PERIOD OF RECORD.--March 1993 to September 1995 (Discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 4,630 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 6 to Feb. 2, Feb. 10-19, Mar. 1-3, and July 26 to Aug. 9. Records good except those for flows above 80 ft³/s and estimated daily discharges, which are poor.

REVISIONS.--The maximum discharge for the water year 1994 has been revised to 274 ft³/s, June 1, 1994, gage height, 9.06 ft; revised daily discharge, in cubic feet per second, for high-water period in this year, is given below. These figures supersede those published in the report for 1994.

June 1...158

	TOTAL	MEAN	MAX	MIN	AC-FT
June 1994	498.9	16.6	158	1.5	990
Wtr Yr 1994	3505.6	9.60	158	1.5	6950
Cal Yr 1994	3186.4	8.73	158	1.5	6320

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	5.3	6.2	5.2	4.5	9.0	2.8	3.8	56	114	26	11
2	4.3	5.8	6.2	5.0	4.3	7.0	2.7	2.8	54	114	23	9.6
3	4.1	8.8	6.1	5.1	4.0	5.2	2.0	3.8	41	110	21	8.9
4	3.9	9.0	6.0	5.1	4.3	4.5	3.2	3.8	56	106	20	8.4
5	4.0	9.3	5.8	5.0	4.1	4.0	2.1	3.7	56	94	21	12
6	4.3	10	5.7	5.1	4.1	4.0	2.7	3.6	37	94	19	11
7	4.2	9.9	5.6	5.2	3.9	4.1	2.4	6.5	31	89	19	9.6
8	4.0	10	5.6	5.7	3.8	4.1	2.3	11	36	65	19	8.7
9	4.0	11	9.0	5.7	4.0	3.8	2.3	6.2	46	93	20	8.6
10	4.0	10	8.0	5.9	3.6	3.7	2.0	5.0	25	54	15	7.8
11	4.0	10	7.0	6.5	11	3.6	3.5	4.9	20	36	12	7.7
12	4.1	11	6.4	6.5	7.5	3.7	2.8	4.9	17	36	10	8.8
13	4.0	12	4.8	6.6	4.5	3.6	2.2	4.5	33	34	7.1	10
14	4.0	12	4.7	6.2	4.2	3.5	2.1	3.7	36	44	7.3	10
15	4.4	11	7.0	5.8	3.8	3.4	2.9	3.7	57	75	7.8	7.9
16	4.5	9.9	7.2	5.4	8.0	3.4	4.4	3.5	77	63	8.0	9.0
17	4.6	8.6	5.8	5.6	9.5	4.0	3.5	9.4	82	91	9.3	10
18	4.7	7.3	5.7	5.7	6.9	3.7	2.7	9.9	83	103	7.6	8.2
19	4.5	7.4	5.8	4.9	6.0	4.3	1.9	6.3	64	83	5.2	32
20	4.7	7.9	6.4	4.5	5.0	4.2	1.8	5.5	69	116	5.7	66
21	4.7	6.6	5.6	5.8	5.1	4.3	3.4	46	42	102	5.9	67
22	4.9	6.8	6.1	6.1	4.5	4.1	2.6	16	25	88	7.9	60
23	4.7	8.1	6.4	6.2	4.2	3.6	4.4	14	34	90	9.1	55
24	4.7	7.1	5.5	5.4	3.9	3.4	3.8	14	52	73	8.7	56
25	4.7	6.2	5.5	5.0	3.8	3.5	4.8	16	62	57	10	61
26	4.7	6.3	5.7	4.7	3.7	3.4	4.7	47	72	43	8.9	49
27	4.8	8.0	6.4	4.7	3.7	3.7	3.1	57	59	35	8.9	60
28	4.9	13	6.8	4.7	4.0	3.5	2.4	28	56	29	9.8	60
29	4.8	14	6.9	4.5	---	3.1	3.7	28	95	23	12	52
30	4.9	7.5	5.4	5.2	---	3.3	4.8	42	108	28	16	79
31	4.9	---	5.8	4.8	---	3.3	---	22	---	25	14	---
TOTAL	137.3	269.8	191.1	167.8	139.9	126.0	90.0	436.5	1581	2207	394.2	864.2
MEAN	4.43	8.99	6.16	5.41	5.00	4.06	3.00	14.1	52.7	71.2	12.7	28.8
MAX	4.9	14	9.0	6.6	11	9.0	4.8	57	108	116	26	79
MIN	3.9	5.3	4.7	4.5	3.6	3.1	1.8	2.8	17	23	5.2	7.7
AC-FT	272	535	379	333	277	250	179	866	3140	4380	782	1710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995, BY WATER YEAR (WY)

	1993	1994	1995	1993	1994	1995	1993	1994	1995	1993	1994	1995
MEAN	8.14	9.48	7.13	6.10	5.76	5.67	4.67	25.9	34.2	29.3	9.52	17.7
MAX	11.8	9.97	8.10	6.79	6.52	7.27	5.63	35.0	52.7	71.2	12.7	28.8
(WY)	1994	1994	1994	1994	1994	1994	1993	1993	1995	1995	1995	1995
MIN	4.43	8.99	6.16	5.41	5.00	4.06	3.00	14.1	16.6	4.37	3.84	5.61
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1993 - 1995

ANNUAL TOTAL	3186.4	6604.8	
ANNUAL MEAN	8.73	18.1	13.8
HIGHEST ANNUAL MEAN			18.1
LOWEST ANNUAL MEAN			9.60
HIGHEST DAILY MEAN	158	116	250
LOWEST DAILY MEAN	1.5	1.8	1.5
ANNUAL SEVEN-DAY MINIMUM	2.2	2.4	2.2
INSTANTANEOUS PEAK FLOW		293	^a 429
INSTANTANEOUS PEAK STAGE		9.30	^a 10.85
ANNUAL RUNOFF (AC-FT)	6320	13100	10030
10 PERCENT EXCEEDS	11	58	36
50 PERCENT EXCEEDS	6.2	6.3	7.1
90 PERCENT EXCEEDS	3.7	3.6	3.8

a-Result of indirect measurement of peak flow.

PLATTE RIVER BASIN

06753990 LONETREE CREEK NEAR GREELEY, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1993 to September 1995 (Discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS, TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT 06...	1150	4.5	2670	8.2	15.0	10.6	1100	240	120	260
NOV 16...	1350	9.2	2390	8.3	6.5	10.7	980	210	110	180
DEC 12...	1330	7.0	2490	8.2	3.0	11.9	980	210	110	180
JAN 12...	1430	6.8	2420	8.3	4.0	12.5	980	210	110	180
FEB 15...	1445	4.0	2750	8.1	0.0	16.0	1100	240	110	240
MAR 15...	1305	3.3	2560	8.6	15.0	16.6	940	210	100	240
APR 13...	1500	2.2	2310	8.7	15.0	18.8	820	180	90	210
MAY 09...	1245	5.4	2260	8.4	10.5	11.5	830	190	86	200
JUN 06...	1505	32	1790	8.6	23.5	8.5	700	130	92	130
JUL 07...	1000	80	678	7.9	22.0	7.7	240	53	25	37

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-A LITY WAT DIS TOT FET FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
OCT 06...	12	--	1100	61	1.2	27	2200	0.15	9.4	0.02
NOV 16...	10	309	950	55	1.1	19	1890	0.09	12.0	0.97
DEC 12...	11	345	970	60	1.2	20	2050	0.08	13.0	0.11
JAN 12...	9.2	328	940	54	1.2	19	1950	0.07	11.0	0.13
FEB 15...	12	326	1100	71	1.0	25	2210	0.12	12.0	0.19
MAR 15...	11	262	1100	68	0.9	13	2090	0.12	9.0	0.15
APR 13...	12	216	960	65	0.8	16	1850	0.16	11.0	0.03
MAY 09...	14	264	890	59	0.7	18	1790	0.18	6.2	0.29
JUN 06...	12	206	720	43	1.0	7.7	1390	0.08	3.4	0.02
JUL 07...	3.9	98	210	12	0.5	10	467	0.05	1.7	0.07

A-Total Alkalinity, determined in field by fixed end-point titration method on filtered sample.

06753990 LONETREE CREEK NEAR GREELEY, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT 06...	1.1	0.90	0.05	0.04	0.03	<9	190	10	1.5
NOV 16...	2.7	1.6	0.26	0.01	<0.01	6	140	8.4	3.8
DEC 12...	1.2	1.2	0.12	0.05	0.05	14	160	7.8	1.6
JAN 12...	1.4	0.90	0.28	0.20	0.18	13	150	8.6	1.7
FEB 15...	1.3	1.0	0.04	0.02	0.04	10	190	6.1	3.4
MAR 15...	1.4	1.3	0.06	0.05	0.03	<9	120	9.3	0.8
APR 13...	1.0	0.80	0.03	<0.01	<0.01	<9	52	7.4	1.4
MAY 09...	2.2	1.3	0.26	0.08	0.06	<9	290	10	2.5
JUN 06...	2.3	0.70	0.40	0.06	0.05	13	29	9.3	>5.0
JUL 07...	1.0	0.50	0.15	0.07	0.07	10	9	6.5	1.6

06754000 SOUTH PLATTE RIVER NEAR KERSEY, CO

LOCATION.--Lat 40°24'44", long 104°33'46", in NW¹/4SW¹/4 sec.9, T.5 N., R.64W., Weld County, Hydrologic Unit 10190003, on downstream side of bridge on State Highway 37, 1.9 mi north of railroad in Kersey, and 2.5 mi downstream from Cache la Poudre River.

DRAINAGE AREA.--9,598 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1901 to December 1903, March 1905 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "at Kersey" 1901-3. Statistical summary computed for 1976 to current year.

REVISED RECORDS.--WSP 1310: 1902, 1906, 1935(M). WSP 1730: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,575.77 ft above sea level. See WSP 1710 or 1730 for history of changes prior to July 3, 1935.

REMARKS.--Estimated daily discharges: Apr. 25-26. Records fair. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 888,000 acres, and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	384	573	678	594	628	575	372	1010	18600	10200	705	795
2	418	550	667	551	610	595	340	797	15400	9550	757	797
3	704	540	666	614	595	591	356	686	14000	9520	683	730
4	597	551	691	611	590	595	349	696	13500	9310	622	677
5	576	572	709	583	582	590	335	660	13200	8880	564	664
6	636	534	708	632	587	608	303	655	13200	7900	519	610
7	607	523	710	631	597	641	248	710	12900	7320	481	604
8	610	515	707	615	587	658	241	783	14200	7110	461	677
9	592	672	692	645	580	628	225	1480	14600	6790	429	773
10	583	837	688	661	596	610	221	962	17100	7000	382	991
11	582	830	665	676	585	580	338	825	15200	6750	400	1180
12	589	825	672	652	578	496	428	586	12800	6390	425	1120
13	574	795	684	635	559	459	337	505	11300	6200	422	1090
14	573	787	685	622	585	458	274	381	11600	6200	417	908
15	610	693	678	609	640	463	233	315	11900	6430	481	805
16	639	691	662	615	775	468	198	253	12600	6120	501	772
17	652	604	665	620	689	456	188	262	12900	5860	453	702
18	753	551	648	621	695	447	220	5750	13900	5240	415	688
19	852	539	649	608	665	437	247	6810	15000	5030	399	864
20	722	549	656	608	643	440	306	5670	13400	5700	1030	1180
21	642	637	671	613	641	442	235	6260	12200	5900	745	1670
22	621	717	685	592	632	416	168	5960	12100	5160	713	2530
23	606	715	673	578	606	403	164	5530	11300	4150	793	2130
24	584	706	676	604	599	397	157	5270	10800	3770	781	1840
25	574	717	662	609	582	372	149	6170	10100	2970	807	1610
26	593	713	648	603	566	363	232	7060	9330	1920	849	1540
27	605	701	632	601	555	362	764	9390	8860	1250	808	1440
28	611	691	648	588	576	358	437	13300	8470	910	776	1340
29	576	680	655	587	---	360	243	13000	9900	711	778	1320
30	567	695	666	610	---	378	568	16100	11700	601	755	1410
31	547	---	679	638	---	374	---	21500	---	616	755	---
TOTAL	18779	19703	20875	19026	17123	15020	8876	139336	382060	171458	19106	33457
MEAN	606	657	673	614	612	485	296	4495	12740	5531	616	1115
MAX	852	837	710	676	775	658	764	21500	18600	10200	1030	2530
MIN	384	515	632	551	555	358	149	253	8470	601	382	604
AC-FT	37250	39080	41410	37740	33960	29790	17610	276400	757800	340100	37900	66360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	850	922	844	818	855	971	1122	2588	3281	1128	773	785									
MAX	3388	2585	1337	1434	1641	1852	3894	13060	14520	5784	2783	2079									
(WY)	1985	1985	1985	1984	1984	1983	1983	1980	1983	1983	1984	1984									
MIN	415	488	568	503	540	473	144	251	113	183	304	259									
(WY)	1978	1978	1982	1982	1978	1982	1982	1977	1977	1994	1981	1977									

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1976 - 1995	
ANNUAL TOTAL	212761		864819			
ANNUAL MEAN	583		2369		a ₁₂₄₅	
HIGHEST ANNUAL MEAN					3631	
LOWEST ANNUAL MEAN					456	
HIGHEST DAILY MEAN	1740	Jun 3	21500	May 31	b ₂₁₅₀₀	May 31 1995
LOWEST DAILY MEAN	137	Jun 17	149	Apr 25	c ₆₁	Apr 26 1982
ANNUAL SEVEN-DAY MINIMUM	166	Jul 8	202	Apr 20	d ₆₃	Apr 25 1982
INSTANTANEOUS PEAK FLOW			22900		d ₂₂₉₀₀ May 31	
INSTANTANEOUS PEAK STAGE			11.00		May 31 1995	
ANNUAL RUNOFF (AC-FT)	422000		1715000		901600	
10 PERCENT EXCEEDS	838		9320		2060	
50 PERCENT EXCEEDS	610		652		756	
90 PERCENT EXCEEDS	202		380		307	

a-Average discharge for 71 years (water years 1902-03, 1906-74), 777 ft³/s; 562900 acre-ft/yr, prior to completion of Chatfield Dam.

b-Maximum daily discharge for period of record, 31000 ft³/s, Jun 7, 1921.

c-Minimum daily discharge for period of record, 28 ft³/s, Apr 30, 1955.

d-Maximum discharge and stage for period of record, 31500 ft³/s, May 8, 1973, gage height, 11.73 ft.

06754000 SOUTH PLATTE RIVER NEAR KERSEY, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS, TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT 06...	1410	611	1450	8.0	16.0	7.8	530	120	57	120
NOV 06...	1200	717	1370	8.0	4.0	11.1	440	100	47	120
DEC 16...	1200	659	1420	8.1	2.5	11.4	470	110	47	120
JAN 12...	1715	646	1450	7.9	5.0	10.7	470	110	47	120
FEB 13...	1200	535	1430	8.0	0.5	12.0	440	100	46	120
MAR 15...	1435	462	1530	8.2	14.5	9.4	530	120	55	130
APR 13...	1320	384	1520	8.2	11.0	11.1	520	120	54	120
MAY 01...	1240	1080	1000	7.8	11.5	7.9	310	73	30	83
MAY 31...	1145	19000	499	7.8	12.0	8.8	160	39	16	33
JUN 22...	1030	12400	315	7.9	16.0	8.0	100	26	8.9	21
JUL 06...	1130	8080	402	7.8	17.5	8.1	120	30	11	27
AUG 09...	1455	430	1380	8.1	24.5	7.2	530	120	55	100
SEP 08...	1130	722	1360	7.9	16.5	7.8	500	110	54	110

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-A LINITY WAT DIS TOT FET FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
OCT 06...	7.6	--	440	56	1.1	13	1050	0.07	5.7	0.33
NOV 16...	7.3	212	370	68	1.0	10	928	0.05	5.6	0.72
DEC 16...	9.9	222	380	77	1.1	12	962	0.10	6.7	1.4
JAN 12...	9.1	230	390	76	1.1	11	981	0.12	7.1	1.1
FEB 13...	9.7	219	360	80	1.1	11	956	0.08	7.3	1.9
MAR 15...	8.0	230	420	75	1.1	8.7	1060	0.08	7.5	0.40
APR 13...	7.9	226	440	79	1.1	7.9	1060	0.11	7.1	0.51
MAY 01...	7.7	150	260	51	0.9	9.0	657	0.07	4.8	0.19
MAY 31...	4.8	85	120	17	0.6	13	332	0.03	0.99	0.10
JUN 22...	2.4	56	63	13	0.5	8.9	202	0.02	0.75	0.05
JUL 06...	2.4	70	81	17	0.6	9.4	253	0.02	1.4	0.04
AUG 09...	6.2	216	440	49	0.9	13	994	0.06	4.9	0.12
SEP 08...	5.8	221	430	47	1.0	11	950	0.05	4.9	0.08

A-Total Alkalinity, determined in field by fixed end-point titration method on filtered sample.

PLATTE RIVER BASIN

06754000 SOUTH PLATTE RIVER NEAR KERSEY, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDEDED TOTAL (MG/L AS C)
OCT 06...	0.80	0.80	0.41	0.40	0.42	10	26	4.6	1.8
NOV 16...	1.7	1.2	0.68	0.54	0.53	20	20	5.6	1.8
DEC 16...	2.2	2.0	1.0	0.85	0.83	21	30	4.7	1.6
JAN 12...	1.8	1.9	0.93	0.90	0.85	23	37	4.9	1.4
FEB 13...	2.9	2.7	1.1	1.0	0.92	27	41	5.1	2.3
MAR 15...	1.3	0.90	0.88	0.75	0.72	14	29	4.1	1.3
APR 13...	1.5	1.0	0.66	0.65	0.65	8	34	4.6	2.1
MAY 01...	1.7	0.80	1.1	0.45	0.43	21	27	5.6	5.6
31...	1.3	0.60	0.44	0.14	0.15	260	50	12	6.7
JUN 22...	0.80	0.60	0.53	0.11	0.09	47	18	6.3	3.3
JUL 06...	0.80	0.30	0.35	0.13	0.13	25	12	5.0	2.5
AUG 09...	1.2	0.50	0.38	0.26	0.25	<3	59	5.1	2.5
SEP 08...	1.0	0.50	0.44	0.29	0.27	<3	28	4.9	3.4

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)
MAY 31...	1225	19000	572	29300
JUN 22...	0945	12400	547	18300

06758500 SOUTH PLATTE RIVER NEAR WELDONA, CO

LOCATION.--Lat 40°19'19", long 103°55'17", in SW¹/4SW¹/4 sec.7, T.4 N., R.58 W., Morgan County, Hydrologic Unit 10190003, on left bank 400 ft downstream from bridge on State Highway 144, 2.8 mi southeast of Weldona, and 4.2 mi upstream from Bijou Creek.

DRAINAGE AREA.--13,245 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1952 to current year. Statistical summary computed for 1976 to current year.

REVISED RECORDS.--WSP 1710: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,307.80 ft above sea level.

REMARKS.--Estimated daily discharges: May 19 to July 26. Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	269	172	35	160	259	451	70	14300	10600	530	411
2	163	292	172	86	182	266	444	65	15900	9400	446	439
3	157	290	155	314	218	265	455	61	13900	8930	435	457
4	324	286	146	379	200	269	426	46	12500	8870	401	412
5	253	283	150	373	195	296	415	74	11900	8500	361	367
6	249	284	154	402	192	301	414	174	11600	7800	335	349
7	234	266	149	507	190	304	392	194	11600	6930	321	315
8	215	251	150	527	191	315	354	438	13300	6400	305	361
9	215	144	152	480	188	329	352	613	13700	6030	307	459
10	204	128	151	422	187	319	385	1000	13600	5850	328	595
11	194	167	152	409	190	324	396	742	16300	5870	306	855
12	184	330	149	404	247	317	443	623	14200	5600	320	873
13	196	355	134	363	313	296	329	516	11900	5470	361	810
14	250	355	124	293	425	275	225	486	10700	5300	409	813
15	271	356	106	220	465	265	186	434	10900	5340	409	722
16	299	316	100	191	523	287	174	358	11300	5340	431	709
17	344	277	96	173	605	292	145	310	12000	5290	450	586
18	366	217	95	206	511	283	103	317	12400	4990	421	531
19	399	179	94	199	450	260	103	3650	13400	4720	389	565
20	340	149	88	197	334	247	163	5110	14100	4720	405	768
21	182	138	87	188	239	240	165	4660	12500	4980	787	1170
22	222	147	85	189	210	229	105	5000	11400	4740	546	1640
23	257	199	81	179	210	223	83	4760	11300	3900	432	1960
24	248	206	83	168	199	220	68	4590	10800	3300	470	1660
25	235	200	81	174	188	212	59	4800	10100	2930	466	1510
26	256	203	80	168	182	209	57	5340	9390	2170	454	1380
27	268	200	79	169	188	188	52	5900	8810	1390	494	1440
28	281	191	77	166	216	206	39	7660	8480	1050	458	1240
29	284	173	74	148	---	288	44	9480	8420	872	427	1100
30	288	168	77	142	---	402	59	9650	9280	767	416	1200
31	258	---	78	145	---	433	---	10700	---	699	400	---
TOTAL	7772	7019	3571	8016	7598	8619	7086	87821	359980	158748	13020	25697
MEAN	251	234	115	259	271	278	236	2833	12000	5121	420	857
MAX	399	356	172	527	605	433	455	10700	16300	10600	787	1960
MIN	136	128	74	35	160	188	39	46	8420	699	305	315
AC-FT	15420	13920	7080	15900	15070	17100	14060	174200	714000	314900	25830	50970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	526	501	585	709	665	551	831	1889	2440	869	604	637									
MAX	3119	2298	1266	1443	1562	1494	3226	10130	12310	5121	2208	2118									
(WY)	1985	1985	1986	1984	1984	1983	1983	1980	1983	1995	1984	1984									
MIN	134	100	115	259	231	132	119	183	101	191	237	123									
(WY)	1977	1977	1995	1995	1978	1978	1982	1981	1977	1981	1981	1977									

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1976 - 1995

ANNUAL TOTAL	126629	694947	
ANNUAL MEAN	347	1904	a900
HIGHEST ANNUAL MEAN			2995
LOWEST ANNUAL MEAN			231
HIGHEST DAILY MEAN	862	Apr 28	b16300 Jun 11
LOWEST DAILY MEAN	70	Apr 5	35 Jan 1
ANNUAL SEVEN-DAY MINIMUM	78	Dec 25	54 Apr 24
INSTANTANEOUS PEAK FLOW			Not determined
INSTANTANEOUS PEAK STAGE			Not determined
ANNUAL RUNOFF (AC-FT)	251200	1378000	652100
10 PERCENT EXCEEDS	631	8490	1640
50 PERCENT EXCEEDS	283	320	448
90 PERCENT EXCEEDS	134	126	157

a-Average discharge for 22 years (water years 1953-74), 572 ft³/s; 414400 acre-ft/yr, prior to completion of Chatfield Dam.

b-Estimated daily discharge.

c-Maximum daily discharge for period of record, 20800 ft³/s, May 9, 1973.

d-Maximum discharge and stage for period of record, 26800 ft³/s, May 8, 1973, gage height, 11.68 ft, from rating curve extended above 16000 ft³/s.

06758500 SOUTH PLATTE RIVER NEAR WELDONA, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1967 to September 1968, October 1971 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
NOV 08...	1150	251	1810	8.3	7.5	10.4	K60	K60	630	150
FEB 23...	1150	210	1750	8.3	7.0	11.2	K23	K22	600	150
AUG 04...	1109	401	1280	8.3	21.0	8.5	--	--	430	100
SEP 27...	1324	1440	1410	8.3	17.0	8.4	170	--	470	110

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
NOV 08...	62	160	3	7.8	272	570	82	1.1	14	1270	
FEB 23...	55	140	2	6.9	259	510	83	1.0	15	1230	
AUG 04...	44	110	2	6.4	207	380	52	0.9	13	906	
SEP 27...	48	120	2	7.1	224	400	64	0.9	14	984	

DATE	TIME	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
NOV 08...	1230	1.73	861	0.01	0.60	4.8	<0.02	0.20	0.18	0.17	
FEB 23...	1140	1.67	697	0.02	0.40	4.8	0.02	0.25	0.21	0.20	
AUG 04...	832	1.23	981	--	--	--	--	--	--	--	
SEP 27...	928	1.34	3830	0.02	0.90	6.0	<0.02	0.51	0.34	0.31	

DATE	TIME	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM, DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV 08...	1150	42	0.8	310	--	--	<3	<10	<3	<10
FEB 23...	1150	40	<0.5	280	1	<5	<3	<10	<3	<10
AUG 04...	1109	66	<0.5	220	<1	<5	<3	<10	6	<10
SEP 27...	1324	55	<0.5	290	<1	6	<3	<10	<3	<10

DATE	TIME	LITHIUM, DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 08...	--	--	10	<10	--	3	--	1700	<6	--
FEB 23...	35	35	13	<10	<10	4	<1	1500	<6	5
AUG 04...	27	27	20	<10	<10	3	<1	1200	<6	6
SEP 27...	35	35	10	<10	<10	3	<1	1400	8	<3

K-Based on non-ideal colony count.

06759910 SOUTH PLATTE RIVER AT COOPER BRIDGE, NEAR BALZAC, CO

LOCATION.--Lat 40°21'23", long 103°31'39", in SW¹/4NE¹/4 sec.33, T.5 N., R.55 W., Morgan County, Hydrologic Unit 10190012, on left bank 0.7 mi downstream from North Sterling Canal, 1.3 mi downstream from Beaver Creek, and 4.3 mi northeast of Snyder.

DRAINAGE AREA.--16,852 mi² (Area at downstream site used prior to October 1987).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1987 to current year. Records prior to water year 1993 can be obtained from the Colorado Division of Water Resources. Statistical summary computed for 1993 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,140 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 13, Dec. 20, Jan.11, Mar. 2-3, 31, Apr. 14, 24, May 8, and May 20. Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by transmountain and transbasin diversions, storage reservoirs, ground-water withdrawals and diversions above station for irrigation.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	14	119	5.0	13	35	461	72	10200	9740	668	288
2	221	20	123	7.3	14	50	460	75	14100	9870	439	323
3	204	20	123	36	15	150	236	72	13900	8830	361	372
4	300	19	115	81	14	166	52	68	13000	8520	350	392
5	235	19	108	270	13	109	40	62	11800	8440	312	343
6	91	18	99	293	13	36	30	65	11200	7910	291	300
7	59	18	92	299	13	32	27	101	11100	7020	273	273
8	50	18	89	321	15	35	23	59	13300	6150	245	276
9	44	18	91	341	18	38	24	56	13700	5700	241	375
10	40	17	87	353	15	28	28	97	13400	5290	240	542
11	37	17	87	326	15	24	34	185	13700	5220	238	724
12	30	19	92	313	17	24	192	97	15800	5130	232	959
13	22	26	91	299	97	277	317	73	13200	4890	230	895
14	19	22	85	277	261	404	206	31	11200	4870	259	923
15	18	23	84	184	378	379	198	21	10300	4730	271	898
16	18	24	86	137	338	374	182	19	10600	4790	268	870
17	21	21	86	126	360	389	176	17	11000	4630	289	843
18	23	19	78	111	374	383	185	15	11800	4820	323	773
19	22	19	65	110	280	357	160	333	12200	4470	290	757
20	24	19	24	100	176	348	148	3410	13100	4450	300	828
21	18	23	5.8	87	162	366	137	3720	13600	4590	426	1180
22	16	23	5.5	80	107	336	123	4080	11900	4540	552	1610
23	15	25	5.6	66	83	323	102	4030	10800	3990	432	2160
24	17	28	4.9	54	66	333	81	3950	10800	3070	376	2200
25	16	23	4.4	50	59	336	69	4120	10400	2800	379	2010
26	16	23	4.0	55	51	330	66	4700	9680	2410	353	1790
27	16	23	4.0	43	44	326	74	5220	8900	1690	371	1760
28	18	26	4.0	17	38	316	69	5730	8490	1210	389	1710
29	18	20	3.7	13	---	294	65	6900	8260	865	354	1530
30	17	78	4.1	13	---	353	73	8050	8360	724	323	1600
31	14	---	3.7	13	---	420	---	8510	---	720	287	---
TOTAL	1824	682	1873.7	4480.3	3049	7371	4038	63938	349790	152079	10362	29504
MEAN	58.8	22.7	60.4	145	109	238	135	2063	11660	4906	334	983
MAX	300	78	123	353	378	420	461	8510	15800	9870	668	2200
MIN	14	14	3.7	5.0	13	24	23	15	8260	720	230	273
AC-FT	3620	1350	3720	8890	6050	14620	8010	126800	693800	301600	20550	58520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995, BY WATER YEAR (WY)

	1993	1994	1995	1993	1994	1995	1993	1994	1995	1993	1994	1995
MEAN	115	131	343	477	470	467	250	891	4069	1809	292	738
MAX	159	274	700	812	715	727	425	2063	11660	4906	334	983
(WY)	1994	1994	1993	1993	1993	1993	1993	1995	1995	1995	1995	1995
MIN	58.8	22.7	60.4	145	109	238	135	276	203	195	264	317
(WY)	1995	1995	1995	1995	1995	1995	1995	1993	1994	1994	1993	1994

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1993 - 1995	
ANNUAL TOTAL	95384.7		628991.0			
ANNUAL MEAN	261		1723		836	
HIGHEST ANNUAL MEAN					1723	
LOWEST ANNUAL MEAN					308	
HIGHEST DAILY MEAN	806	Feb 12	15800	Jun 12	15800	Jun 12 1995
LOWEST DAILY MEAN	^a 3.7	Dec 29	^a 3.7	Dec 29	^a 3.7	Dec 29 1994
ANNUAL SEVEN-DAY MINIMUM	4.0	Dec 25	4.0	Dec 25	4.0	Dec 25 1994
INSTANTANEOUS PEAK FLOW			16500		16500	
INSTANTANEOUS PEAK STAGE			9.43		9.43	
ANNUAL RUNOFF (AC-FT)	189200		1248000		605400	
10 PERCENT EXCEEDS	568		8130		966	
50 PERCENT EXCEEDS	221		185		277	
90 PERCENT EXCEEDS	19		17		27	

a-Also occurred Dec 31, 1994.

PLATTE RIVER BASIN

06759910 SOUTH PLATTE RIVER AT COOPER BRIDGE, NEAR BALZAC, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT 13...	1425	20	1850	8.2	15.5	10.5	680	170	61	160
NOV 21...	1220	25	1900	8.2	7.5	11.6	670	170	60	160
DEC 14...	0855	83	1940	8.4	2.5	11.3	700	180	62	160
JAN 15...	0720	215	1750	8.5	1.5	15.0	630	160	55	150
FEB 07...	1125	13	1860	8.0	9.0	10.5	670	170	59	150
MAR 14...	1335	398	1830	8.2	14.0	10.8	630	160	57	160
APR 18...	1340	188	1930	8.2	12.5	9.7	690	180	58	160
MAY 10...	1030	140	1550	8.2	17.0	--	520	130	48	130
20...	1015	3740	700	8.0	14.5	7.0	220	56	20	55
JUN 02...	1155	14700	649	7.8	17.5	5.6	220	54	20	46
26...	1245	9520	542	8.0	20.0	7.4	160	41	14	36
AUG 28...	1330	395	1540	8.4	26.0	10.1	540	130	53	130
SEP 28...	1200	1710	1440	8.3	16.0	8.0	470	110	47	120

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA ^A LINITY WAT DIS TOT FET FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
OCT 13...	10	248	620	80	1.0	15	1350	0.02	3.3	0.02
NOV 21...	10	256	640	85	0.9	15	1420	0.03	3.7	0.06
DEC 14...	1.3	269	650	87	1.0	16	1470	0.04	4.9	0.25
JAN 15...	9.8	261	560	80	0.9	15	1190	0.04	4.9	0.36
FEB 07...	11	247	620	86	0.9	15	1370	0.07	3.5	0.05
MAR 14...	9.4	259	590	86	1.0	14	1340	0.02	4.9	0.02
APR 18...	10	257	640	87	0.9	15	1430	0.03	4.2	0.06
MAY 10...	8.9	214	420	79	1.0	13	1100	0.02	4.3	<0.015
20...	6.8	100	170	31	0.7	9.4	450	0.02	2.1	0.04
JUN 02...	7.8	101	160	25	0.7	15	438	0.02	0.98	0.03
26...	3.2	85	130	21	0.6	7.6	346	0.02	0.84	0.06
AUG 28...	9.0	228	510	66	1.0	12	1130	0.02	3.0	<0.015
SEP 28...	7.9	223	420	66	0.9	14	982	0.02	5.2	<0.015

A-Total alkalinity, determined in field by fixed end-point titration method on filtered sample.

06759910 SOUTH PLATTE RIVER AT COOPER BRIDGE, NEAR BALZAC, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT 13...	0.30	0.30	0.18	0.14	0.17	<3	170	3.4	0.40
NOV 21...	0.50	0.30	0.21	0.14	0.15	6	120	3.4	1.6
DEC 14...	0.60	0.70	0.21	0.15	0.17	10	39	3.4	0.50
JAN 15...	0.80	0.70	0.28	0.30	0.26	5	30	3.7	1.5
FEB 07...	0.30	0.30	0.15	0.14	0.14	<3	130	3.2	0.20
MAR 14...	0.70	0.30	0.35	0.26	0.24	<3	16	3.4	1.4
APR 18...	0.40	0.30	0.22	0.18	0.20	<3	18	3.3	0.50
MAY 10...	0.90	0.40	0.34	0.25	0.24	3	19	4.2	1.3
20...	2.9	0.50	1.2	0.18	0.17	38	19	6.3	11
JUN 02...	1.2	0.60	0.43	0.18	0.18	140	21	12	4.3
26...	0.80	0.30	0.37	0.14	0.14	16	22	5.8	2.7
AUG 28...	1.1	0.50	0.34	0.15	0.13	<3	7	4.6	3.6
SEP 28...	1.1	0.40	0.52	0.31	0.30	8	6	4.0	3.0

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
MAY 20...	1115	3740	1560	15700
JUN 02...	1055	14500	604	23600

06764000 SOUTH PLATTE RIVER AT JULESBURG, CO--Continued
 (Irrigation network station)
 (National stream-quality accounting network station)

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1945 to September 1981 (Discontinued).
 WATER TEMPERATURES: Water years 1945-49, October 1950 to September 1981 (Discontinued).

INSTRUMENTATION.--Water-quality monitor from July 1973 to September 1979.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 3,270 microsiemens, Jan. 12, 1971; minimum daily, 348 microsiemens, Aug. 15, 1968.
 WATER TEMPERATURES: Maximum, 36.0°C, July 17, 19, 1977, July 16, 1978; minimum, freezing point on many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CaCO3)
NOV 09...	1000	88	2270	8.1	4.5	2.4	13.0	K33	K34	890
FEB 22...	1050	293	2240	8.5	5.5	2.2	13.0	K35	K28	790

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY, WATER TOT IT FIELD (MG/L AS CaCO3)	BICARBONATE, DIS IT FIELD (MG/L AS HCO3)	CARBONATE, DIS IT FIELD (MG/L AS CO3)	SULFATE, DIS-SOLVED (MG/L AS SO4)
NOV 09...	230	75	230	3	18	217	264	0	870
FEB 22...	200	69	210	3	15	--	--	--	780

DATE	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITROGEN, NITRATE, DIS-SOLVED (MG/L AS N)	NITROGEN, NITRITE, DIS-SOLVED (MG/L AS N)
NOV 09...	110	0.70	25	1760	1720	2.39	418	2.78	0.02
FEB 22...	99	0.80	21	1650	1570	2.24	1310	2.97	0.03

A-Field total dissolved alkalinity, determined by incremental titration method.
 B-Field dissolved bicarbonate, determined by incremental titration method.
 C-Field dissolved carbonate, determined by incremental titration method.
 K-Based on non-ideal colony count.

PLATTE RIVER BASIN

06764000 SOUTH PLATTE RIVER AT JULESBURG, CO--Continued
 (Irrigation network station)
 (National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
NOV 09...	0.07	2.8	0.02	0.03	0.50	0.04	0.03	0.03	0.09
FEB 22...	0.10	3.0	0.04	0.05	0.50	0.08	0.06	0.03	0.09

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
NOV 09...	1000	10	100	<1	<10	60	30
FEB 22...	1050	20	<100	<1	30	50	20

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
NOV 09...	3	2	3	<1	2400	6
FEB 22...	5	2	4	<1	2000	7

DATE	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)
NOV 09...	0.06
FEB 22...	--

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 09...	1140	82	142	32	100
FEB 22...	1121	284	112	86	100

06823000 NORTH FORK REPUBLICAN RIVER AT COLORADO-NEBRASKA STATE LINE

LOCATION.--Lat 40°04'10", long 102°03'05", in SE¹/4NW¹/4 sec.10, T.1 N., R.42 W., Dundy County, Nebraska, Hydrologic Unit 10250002, on right bank 100 ft east of Colorado-Nebraska State line, 9.5 mi upstream from confluence with Arikaree River, and at mile 448.

DRAINAGE AREA.--2,370 mi², of which about 174 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--October 1930 to current year. Prior to October 1932, published as North Fork of Arikaree River at Colorado-Nebraska State line. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1240: 1947(M). WSP 1390: 1934. WDR-CO-94-1: Drainage area.

GAGE.--Water-stage recorder. Steel piling control since January 1965. Datum of gage is 3,336.09 ft above sea level. Prior to Oct. 17, 1934, nonrecording gage at present site and datum.

REMARKS.--Records fair. Natural flow affected by diversion in Haigler Canal for irrigation of about 2,700 acres in Colorado and Nebraska.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	56	47	e49	48	46	52	61	57	23	9.3	8.5
2	19	56	48	e48	48	45	50	55	33	21	8.4	8.2
3	22	55	48	e47	46	44	48	56	26	21	7.7	8.3
4	22	54	46	e46	46	43	48	55	68	23	9.3	8.1
5	28	54	44	e45	46	42	46	55	67	25	10	8.2
6	37	53	42	e47	46	42	45	55	59	26	9.1	7.9
7	39	52	e40	e48	46	48	43	55	51	14	7.9	7.2
8	35	52	e40	e49	44	58	43	59	58	12	7.0	7.2
9	32	51	e41	50	43	57	45	63	63	11	7.3	7.4
10	29	50	e42	50	43	57	49	59	58	10	7.0	7.8
11	28	50	e42	51	43	57	51	57	55	14	7.0	7.8
12	32	49	42	51	42	57	50	54	51	15	6.6	7.8
13	35	49	48	48	e44	56	53	52	45	9.7	6.4	7.1
14	35	48	48	46	e46	56	49	51	44	9.5	6.4	7.0
15	47	48	47	46	e48	57	46	51	44	24	6.8	6.7
16	54	47	48	45	50	57	46	52	42	17	7.1	7.0
17	52	47	48	44	53	57	48	50	42	30	7.4	7.4
18	52	47	49	43	53	55	51	52	41	54	8.4	7.0
19	47	47	49	43	54	53	55	53	37	50	8.6	7.7
20	59	49	50	42	53	51	62	54	36	65	7.5	9.1
21	62	50	50	42	54	51	59	52	34	63	6.6	14
22	61	49	50	42	52	51	55	52	33	51	9.4	27
23	60	49	51	41	50	53	52	54	32	46	11	15
24	60	48	51	41	49	54	50	53	32	44	9.0	19
25	59	48	51	40	48	56	48	51	33	29	11	20
26	58	48	51	40	48	59	54	51	34	21	13	22
27	57	47	51	e43	48	51	53	65	33	20	10	26
28	56	46	52	e45	47	59	49	63	28	18	16	27
29	56	45	53	e48	---	56	49	56	27	12	15	29
30	57	45	51	49	---	53	56	57	26	9.4	12	32
31	57	---	e50	49	---	52	---	60	---	8.8	10	---
TOTAL	1365	1489	1470	1418	1338	1633	1505	1713	1289	796.4	278.2	384.4
MEAN	44.0	49.6	47.4	45.7	47.8	52.7	50.2	55.3	43.0	25.7	8.97	12.8
MAX	62	56	53	51	54	59	62	65	68	65	16	32
MIN	18	45	40	40	42	42	43	50	26	8.8	6.4	6.7
AC-FT	2710	2950	2920	2810	2650	3240	2990	3400	2560	1580	552	762

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1995, BY WATER YEAR (WY)

MEAN	37.2	57.3	61.4	60.9	62.8	65.6	58.6	43.1	35.7	19.2	18.9	26.8
MAX	67.1	83.5	74.7	73.4	76.8	85.8	85.7	104	113	93.8	72.4	128
(WY)	1963	1957	1954	1953	1960	1960	1980	1951	1962	1962	1950	1951
MIN	11.1	27.0	40.5	39.4	45.0	50.7	23.5	11.0	12.2	5.36	4.12	5.78
(WY)	1979	1989	1993	1979	1993	1980	1972	1992	1952	1978	1940	1978

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1935 - 1995	
ANNUAL TOTAL	13003.5		14679.0			
ANNUAL MEAN	35.6		40.2		45.4	
HIGHEST ANNUAL MEAN					65.3	
LOWEST ANNUAL MEAN					30.0	
HIGHEST DAILY MEAN	68	Apr 11	68	Jun 4	761	May 15 1951
LOWEST DAILY MEAN	7.3	Aug 27	a 6.4	Aug 13	1.7	Jul 11 1938
ANNUAL SEVEN-DAY MINIMUM	8.0	Jul 1	6.8	Aug 10	2.3	Aug 5 1940
INSTANTANEOUS PEAK FLOW			99		2110	Apr 28 1947
INSTANTANEOUS PEAK STAGE			*1.92		5.92	Apr 28 1947
ANNUAL RUNOFF (AC-FT)	25790		29120		32900	
10 PERCENT EXCEEDS	55		57		73	
50 PERCENT EXCEEDS	45		47		51	
90 PERCENT EXCEEDS	10		8.7		9.0	

a-Also occurred Aug 14.
e-Estimated.
*-Backwater from ice.

06826000 BONNY RESERVOIR NEAR HALE, CO

LOCATION.--Lat 39°37'24", long 102°10'26", in SE¹/4SE¹/4 sec.9, T.5 S., R.43 W., Yuma County, Hydrologic Unit 10250003, in stair well to outlet conduit of Bonny Dam on South Fork Republican River, 1.7 mi west of Hale, and 3.0 mi downstream from Landsman Creek.

DRAINAGE AREA.--1,820 mi², approximately.

PERIOD OF RECORD.--October 1950 to September 1995 (Discontinued).

REVISED RECORDS.--WSP 1710: 1955.

GAGE.--Water-stage recorder. Datum of gage is 3,710.00 ft above sea level, (levels by U.S. Bureau of Reclamation) Prior to Oct. 1, 1967, nonrecording gage at present site and datum.

REMARKS.--Reservoir is formed by an earthfill dam. Storage began July 6, 1950; dam completed May 4, 1951. Capacity of reservoir, 170,200 acre-ft, below elevation 3,710 ft, crest of spillway, of which 128,800 acre-ft is for flood control and 39,900 acre-ft is for irrigation. Dead storage, 1,420 acre-ft below elevation 3,635.0 ft, sill of trashrack at outlet conduit. Figures given represent total contents.

COOPERATION.--Capacity tables provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 55,030 acre-ft, May 17, 1957, elevation, 3,678.10 ft; minimum observed since appreciable contents were attained, 22,520 acre-ft, Oct. 6-14, 1952, elevation 3,661.20 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 45,200 acre-ft, June 13, elevation, 3,673.84 ft; minimum, 36,300 acre-ft, Oct. 14, elevation, 3,669.43.

Capacity table (elevation, in feet, and total contents, in acre-feet)

3,669.4	36,300
3,673.9	45,300

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36800	36400	36800	37400	38300	38800	39600	40800	42400	44300	41000	39600
2	36700	36400	36800	37500	38300	38800	39600	40800	42400	44400	40900	39600
3	36700	36400	36800	37500	38300	38900	39600	41000	42500	44300	40900	39500
4	36700	36400	36800	37500	38300	38800	39700	41000	43100	44300	40900	39400
5	36700	36500	36800	37500	38300	38900	39700	41100	44600	44200	40800	39300
6	36700	36400	36900	37500	38300	38900	39700	41200	44900	44100	40800	39200
7	36700	36500	36900	37600	38300	38900	39700	41200	45000	43800	40700	39200
8	36600	36400	36900	37600	38400	39000	39700	41300	45000	43700	40700	39100
9	36600	36400	37000	37600	38400	39100	39700	41300	45100	43500	40700	39100
10	36600	36500	37000	37600	38300	39000	39800	41400	45100	43300	40600	39000
11	36500	36500	37000	37700	38400	39100	39800	41300	45100	43100	40600	39000
12	36500	36500	37000	37700	38400	39100	39800	41500	45200	42900	40500	39000
13	36400	36500	37000	37800	38400	39100	39900	41500	45100	42700	40500	38900
14	36400	36500	37100	37800	38400	39100	39900	41400	45100	42700	40400	38800
15	36500	36500	37000	37800	38500	39100	39900	41500	45100	42500	40400	38700
16	36400	36600	37100	37800	38500	39100	39900	41600	45000	42400	40300	38600
17	36500	36500	37100	37800	38500	39200	40000	41700	44900	42400	40300	38600
18	36500	36500	37100	37800	38600	39200	40100	41700	44800	42300	40200	38500
19	36500	36500	37200	37900	38600	39200	40200	41800	44800	42200	40100	38400
20	36500	36600	37200	37900	38600	39200	40300	41900	44700	42300	40100	38400
21	36500	36600	37200	37900	38600	39200	40300	41900	44600	42200	40000	38400
22	36500	36700	37200	37900	38700	39200	40300	41900	44600	42000	40000	38300
23	36500	36700	37200	37900	38700	39200	40400	41900	44600	41900	39900	38300
24	36400	36600	37200	38000	38700	39100	40400	41900	44600	41600	39900	38300
25	36400	36700	37300	38000	38700	39200	40500	42000	44600	41400	39900	38200
26	36500	36800	37300	38100	38700	39400	40500	42000	44600	41300	39900	38200
27	36500	36700	37300	38200	38600	39500	40600	42100	44600	41300	39900	38200
28	36400	36800	37300	38200	38800	39500	40600	42100	44500	41200	39800	38100
29	36400	36800	37400	38200	---	39500	40700	42100	44400	41200	39800	38100
30	36400	36700	37400	38200	---	39600	40800	42200	44400	41000	39700	38000
31	36400	---	37400	38200	---	39600	---	42300	---	41000	39600	---
MAX	36800	36800	37400	38200	38800	39600	40800	42300	45200	44400	41000	39600
MIN	36400	36400	36800	37400	38300	38800	39600	40800	42400	41000	39600	38000

07079300 EAST FORK ARKANSAS RIVER AT HIGHWAY 24 NEAR LEADVILLE, CO

LOCATION.--Lat 39°16'21", long 106°18'21", in NW¹/4NW¹/4 sec. 14, T.9 S., R.80 W., Lake County, Hydrologic Unit 11020001, on right bank 20 ft downstream from U.S. Highway 24, 0.35 mi downstream from Leadville Mine Drainage Tunnel, 1.5 mi northwest of Leadville, and 2.2 mi upstream from mouth of Tennessee Creek.

DRAINAGE AREA.--49.9 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 9,900 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 31 to Mar. 10 and Mar. 25 to Apr. 2. Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions (see elsewhere in this report).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	13	12	8.0	12	9.0	7.0	14	78	457	113	49
2	17	13	10	8.0	12	9.2	8.0	16	101	409	104	46
3	16	13	10	9.4	10	9.1	9.1	16	113	406	97	45
4	16	13	12	8.0	9.0	9.1	9.3	16	127	377	91	41
5	16	13	12	9.0	10	9.0	9.7	18	147	344	89	38
6	17	14	12	9.8	10	9.2	10	18	190	360	85	38
7	17	13	10	10	10	7.0	11	19	210	385	79	39
8	16	13	8.0	10	9.0	7.0	11	18	225	382	78	45
9	16	13	6.0	12	9.0	8.0	11	19	229	407	76	42
10	16	12	7.0	12	9.0	9.0	10	21	201	414	71	40
11	16	13	9.0	13	7.0	9.1	9.0	23	195	399	68	37
12	16	13	8.0	9.0	7.0	9.1	10	23	235	404	71	33
13	15	13	10	9.0	8.0	9.1	11	23	280	333	79	32
14	15	12	12	10	8.0	9.1	11	25	379	273	71	30
15	16	10	10	10	6.5	9.1	11	29	341	241	63	29
16	15	12	12	9.0	7.0	9.2	11	37	265	223	55	28
17	15	12	12	8.0	6.5	9.4	12	40	256	213	50	27
18	15	13	10	8.0	7.0	9.4	12	39	424	198	49	27
19	15	12	12	9.0	7.0	9.5	12	41	446	192	55	27
20	15	12	10	8.0	8.0	9.3	12	44	486	187	57	26
21	14	12	10	8.0	9.0	9.3	12	48	480	191	72	26
22	14	12	10	8.0	10	9.4	12	56	533	186	92	25
23	14	11	12	8.0	9.0	9.2	11	66	540	173	77	25
24	14	10	10	9.0	8.0	9.1	10	67	611	158	103	24
25	14	11	11	9.0	9.0	8.0	12	66	524	148	76	23
26	14	12	10	10	9.0	9.0	13	62	509	147	82	23
27	14	10	12	9.0	9.0	8.0	13	62	506	137	76	23
28	14	12	11	8.0	10	9.0	14	62	520	128	68	24
29	13	10	10	8.0	---	8.0	14	67	507	125	67	27
30	14	10	11	8.0	---	7.0	14	67	473	119	59	27
31	12	---	9.6	10	---	7.0	---	67	---	124	54	---
TOTAL	468	362	320.6	284.2	245.0	270.9	332.1	1189	10131	8240	2327	966
MEAN	15.1	12.1	10.3	9.17	8.75	8.74	11.1	38.4	338	266	75.1	32.2
MAX	17	14	12	13	12	9.5	14	67	611	457	113	49
MIN	12	10	6.0	8.0	6.5	7.0	7.0	14	78	119	49	23
AC-FT	928	718	636	564	486	537	659	2360	20090	16340	4620	1920

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1990	1991	1992	1993	1994	1995
MEAN	17.2	12.8	10.8	10.1	9.42	9.60	12.2	75.7	204	98.9	39.3	24.0
MAX	21.0	15.1	11.5	11.3	11.0	10.5	14.4	98.3	338	266	75.1	32.2
(WY)	1991	1991	1993	1992	1991	1994	1994	1992	1995	1995	1995	1995
MIN	15.1	10.8	10.1	9.17	7.10	8.74	10.5	38.4	146	42.2	23.5	19.3
(WY)	1995	1992	1992	1995	1993	1995	1993	1995	1992	1994	1994	1994

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1990 - 1995

ANNUAL TOTAL	12523.8	25135.8	
ANNUAL MEAN	34.3	68.9	45.1
HIGHEST ANNUAL MEAN			68.9
LOWEST ANNUAL MEAN			34.5
HIGHEST DAILY MEAN	299	611	611
LOWEST DAILY MEAN	6.0	6.0	6.0
ANNUAL SEVEN-DAY MINIMUM	8.3	7.1	6.7
INSTANTANEOUS PEAK FLOW		853	853
INSTANTANEOUS PEAK STAGE		4.11	4.11
ANNUAL RUNOFF (AC-FT)	24840	49860	32690
10 PERCENT EXCEEDS	116	224	136
50 PERCENT EXCEEDS	15	14	17
90 PERCENT EXCEEDS	9.8	8.0	9.2

07079300 EAST FORK ARKANSAS RIVER AT HIGHWAY 24 NEAR LEADVILLE, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1990 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1990 to current year.

WATER TEMPERATURE: May 1990 to current year.

pH: May 1990 to current year.

INSTRUMENTATION: Water-quality monitor.

REMARKS.--Records for water temperature are good except June 18 to Sept. 14, which are poor. Records for specific conductance are good except Oct. 21 to Apr. 1, which are fair, and July 1 to Sept. 14, which are poor. Records for pH are good except for Oct. 1 to Nov. 10, Jan. 13 to Feb. 8, which are fair, and Aug. 1 to Sept. 30, which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,010 microsiemens, Sept. 21, 1993; minimum, 66 microsiemens, June 12, 1993.

WATER TEMPERATURE: Maximum, 18.3°C, Aug. 16, 1993; minimum, 0.0°C, many days.

pH: Maximum, 8.9 units, Mar. 17-18, 1992; minimum, 7.1 units, June 28, 1993.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 417 microsiemens, Mar. 6; minimum, 88 microsiemens, June 17.

WATER TEMPERATURE: Maximum, 15.7°C, Sept. 1; minimum, 0.0°C, many days.

pH: Maximum, 8.6 units, Sept. 4; minimum, 7.5 units, Oct. 7, Dec. 20, 29, and Mar. 30.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	291	274	283	305	259	279	336	315	327	401	347	374
2	290	274	281	304	258	275	348	288	317	383	353	365
3	290	275	282	320	303	313	362	305	333	381	352	363
4	290	276	284	326	297	309	341	305	327	393	359	377
5	291	272	283	319	282	303	335	319	328	380	358	370
6	291	271	279	316	296	307	335	317	328	377	355	363
7	287	273	279	316	301	310	347	310	325	371	352	363
8	291	274	284	315	296	308	347	320	335	365	348	359
9	296	276	285	316	288	305	386	330	358	365	344	357
10	294	278	287	334	281	306	369	337	349	366	350	358
11	296	279	288	339	277	306	353	331	342	366	351	359
12	296	281	290	316	296	307	356	333	342	371	350	360
13	302	285	293	325	297	308	349	328	339	382	353	364
14	302	289	295	331	287	306	345	328	339	372	351	361
15	300	281	289	315	254	282	373	344	354	367	352	360
16	300	284	294	325	258	287	368	339	353	371	349	361
17	299	281	291	328	295	312	358	334	346	393	357	372
18	303	284	295	331	291	308	361	334	346	391	355	373
19	302	286	294	334	305	320	362	337	348	381	354	366
20	306	288	298	332	309	320	380	350	362	387	353	368
21	306	266	287	331	309	318	373	330	352	396	325	372
22	309	292	304	330	310	320	359	343	353	398	325	359
23	311	294	304	332	290	307	360	337	352	397	362	380
24	311	294	303	359	294	326	353	333	345	389	364	375
25	313	293	303	348	290	327	352	334	344	378	359	370
26	311	294	302	340	320	330	368	331	347	382	359	370
27	313	296	305	362	309	338	391	312	357	377	360	369
28	312	296	305	347	322	338	386	338	354	385	360	372
29	315	298	306	346	323	334	369	343	352	393	360	374
30	311	281	294	331	310	323	356	332	347	408	366	387
31	314	280	294	---	---	---	368	342	354	383	361	372
MONTH	315	266	292	362	254	311	391	288	344	408	325	368

07079300 EAST FORK ARKANSAS RIVER AT HIGHWAY 24 NEAR LEADVILLE, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	383	360	371	388	369	381	414	340	382	396	330	357
2	382	361	372	390	369	382	403	370	384	363	323	345
3	402	353	379	387	366	376	401	373	386	358	325	343
4	407	349	378	402	369	382	391	358	377	359	327	345
5	390	356	375	404	347	380	385	351	368	377	336	353
6	383	361	373	417	365	382	375	339	362	373	338	357
7	387	359	373	407	329	376	368	339	356	370	330	353
8	390	361	382	402	331	365	370	338	357	365	333	350
9	384	359	373	400	333	376	367	341	357	381	345	363
10	384	365	374	407	342	378	388	359	373	369	331	351
11	391	351	376	388	364	378	410	349	380	358	326	342
12	408	359	385	389	371	380	390	360	376	344	315	333
13	378	354	365	407	367	386	381	340	366	360	321	345
14	387	359	371	397	369	382	372	350	362	366	309	344
15	402	342	372	394	360	380	379	359	371	345	267	318
16	392	356	374	385	355	371	384	353	369	287	258	272
17	408	344	380	382	355	369	374	354	365	280	260	271
18	399	361	378	389	356	375	379	352	367	306	273	292
19	403	349	376	381	358	370	374	352	363	311	278	292
20	392	358	376	390	352	372	377	355	364	293	260	279
21	404	351	376	386	329	366	376	354	367	295	248	274
22	394	328	374	385	356	370	380	354	368	276	230	257
23	401	347	375	405	349	377	380	354	365	259	231	241
24	400	347	379	391	364	379	388	360	370	251	228	237
25	392	342	376	390	349	375	384	356	369	250	232	242
26	396	361	378	393	367	381	367	320	350	262	239	250
27	392	368	378	395	355	376	372	344	362	265	244	255
28	387	368	378	398	371	382	371	341	358	270	245	256
29	---	---	---	413	365	389	363	338	349	266	232	255
30	---	---	---	391	345	376	367	340	353	263	228	243
31	---	---	---	402	341	370	---	---	---	274	230	250
MONTH	408	328	376	417	329	377	414	320	367	396	228	302
		JUNE			JULY			AUGUST			SEPTEMBER	
1	260	223	250	132	120	127	139	128	133	192	178	186
2	226	195	210	135	126	131	140	126	132	193	183	187
3	196	176	191	136	130	132	143	135	138	195	184	190
4	184	168	174	138	130	136	142	136	138	198	186	192
5	176	151	169	139	124	135	140	131	136	199	190	195
6	152	136	145	129	114	123	141	132	136	212	180	196
7	142	128	138	124	112	118	142	134	137	211	193	202
8	151	129	136	121	107	114	145	135	139	206	187	195
9	140	128	135	115	103	109	144	132	139	200	189	194
10	144	136	140	113	101	108	151	139	143	204	195	198
11	149	133	143	116	101	109	154	143	148	207	198	202
12	135	122	130	114	100	106	151	141	144	213	202	207
13	133	113	127	119	97	110	143	133	139	214	206	209
14	121	104	115	114	102	109	144	137	140	219	201	210
15	120	106	115	112	92	103	155	141	146	220	206	213
16	119	107	114	---	---	---	156	143	150	222	210	217
17	108	88	99	---	---	---	151	144	147	226	215	220
18	135	102	123	---	---	---	151	142	147	226	212	219
19	128	114	121	---	---	---	153	141	146	224	200	217
20	136	117	127	---	---	---	149	141	145	239	217	228
21	139	122	131	---	---	---	143	131	137	246	208	227
22	133	119	127	---	---	---	138	131	133	232	220	227
23	132	119	125	---	---	---	149	134	141	234	222	228
24	135	123	129	---	---	---	171	130	148	236	224	231
25	137	123	130	---	---	---	173	159	166	240	228	234
26	136	119	127	137	131	132	165	158	161	244	230	237
27	130	115	123	133	123	128	165	153	158	246	233	239
28	126	115	121	135	125	129	160	153	157	246	230	237
29	122	112	118	134	126	130	171	152	160	242	223	232
30	126	119	123	135	124	130	178	168	172	238	226	231
31	---	---	---	136	124	129	187	175	180	---	---	---
MONTH	260	88	139	---	---	---	187	126	146	246	178	213

07079300 EAST FORK ARKANSAS RIVER AT HIGHWAY 24 NEAR LEADVILLE, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.2	7.8	8.0	8.3	7.9	8.1	---	---	---	8.1	7.6	7.8
2	8.2	7.8	8.0	8.3	8.1	8.2	8.3	8.2	8.3	---	---	---
3	8.3	7.8	8.0	8.3	8.1	8.2	8.3	8.0	8.2	---	---	---
4	8.3	7.9	8.1	8.3	8.1	8.2	8.3	8.1	8.2	---	---	---
5	8.2	7.8	8.0	8.3	8.0	8.1	8.3	8.1	8.2	---	---	---
6	8.2	7.7	7.8	8.3	8.1	8.2	8.2	8.1	8.1	---	---	---
7	8.0	7.5	7.7	8.4	8.1	8.0	8.1	7.9	8.0	---	---	---
8	8.1	7.6	7.8	8.3	8.2	8.3	8.2	8.0	8.1	---	---	---
9	8.2	7.6	7.8	8.3	8.0	8.2	8.1	7.8	7.9	---	---	---
10	8.1	7.6	7.9	8.3	7.8	8.0	8.0	7.9	8.0	---	---	---
11	8.2	7.7	7.9	8.1	7.6	8.0	8.1	7.8	7.9	---	---	---
12	8.2	7.7	7.9	8.1	7.9	8.0	8.0	7.7	7.9	---	---	---
13	8.2	7.7	7.9	8.2	7.9	8.0	8.0	7.8	7.9	8.3	8.0	8.2
14	8.1	7.7	7.9	8.1	7.7	7.9	8.1	7.8	8.0	8.3	8.2	8.2
15	8.2	7.8	8.0	---	---	---	8.1	7.6	7.8	8.3	8.1	8.2
16	8.2	7.8	8.0	8.0	7.6	7.9	8.0	7.7	7.9	8.3	8.0	8.1
17	8.1	7.8	7.9	8.0	7.8	7.9	8.0	7.7	7.9	8.1	7.9	8.0
18	8.1	7.6	7.8	8.0	7.7	7.8	8.1	7.7	7.9	8.1	7.8	8.0
19	8.1	7.7	7.9	8.0	7.7	7.9	8.1	7.7	7.9	8.1	7.9	8.0
20	8.1	7.7	7.9	8.0	7.8	7.9	8.0	7.5	7.8	8.1	7.8	8.0
21	8.2	7.8	8.0	8.1	7.9	8.0	8.1	7.6	7.8	8.1	7.8	8.0
22	8.4	7.9	8.1	8.1	7.9	7.9	8.1	7.6	7.9	8.1	7.8	7.9
23	8.3	7.9	8.1	8.0	7.7	7.9	8.1	7.8	7.9	7.9	7.6	7.8
24	8.3	7.9	8.1	8.0	7.7	7.9	8.2	7.9	8.0	8.0	7.6	7.8
25	8.3	7.6	8.0	8.0	7.8	7.9	8.2	7.9	8.1	8.0	7.7	7.9
26	8.3	7.9	8.1	8.0	7.9	7.9	8.1	7.8	8.0	8.0	7.8	7.9
27	8.4	8.0	8.2	8.0	7.8	7.9	8.1	7.7	7.9	8.1	7.8	7.9
28	8.4	8.0	8.2	7.9	7.7	7.8	8.1	7.6	7.9	8.1	7.8	7.9
29	8.4	8.0	8.2	7.8	7.6	7.7	8.1	7.5	7.8	8.1	7.7	7.9
30	8.2	8.0	8.1	---	---	---	8.2	8.0	8.1	7.9	7.6	7.7
31	8.0	7.6	7.8	---	---	---	8.1	7.9	8.0	8.0	7.7	7.8
MONTH	8.4	7.5	8.0	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.0	7.7	7.8	8.3	8.2	8.2	8.2	7.6	8.0	8.2	7.7	8.0
2	8.1	7.7	7.8	8.3	8.2	8.2	8.2	8.0	8.1	8.2	7.8	8.0
3	8.0	7.6	7.8	8.3	8.2	8.2	8.2	7.9	8.0	8.2	7.7	7.9
4	8.1	7.6	7.8	8.3	8.2	8.2	8.2	7.8	8.0	8.0	7.8	7.9
5	8.4	7.6	8.0	8.3	8.2	8.2	8.2	7.8	8.0	8.0	7.8	7.9
6	8.5	8.0	8.3	8.3	8.2	8.2	8.2	7.7	8.0	8.1	7.9	8.0
7	8.5	8.3	8.4	8.3	8.1	8.2	8.1	7.8	8.0	8.1	7.9	8.0
8	8.4	8.2	8.3	8.3	8.1	8.2	8.1	7.8	8.0	8.1	7.9	8.0
9	8.4	8.2	8.3	8.3	8.1	8.2	7.9	7.8	7.9	8.1	7.9	8.0
10	8.4	8.2	8.3	8.3	8.1	8.2	8.0	7.7	7.8	8.1	8.0	8.0
11	8.3	8.2	8.2	8.3	8.1	8.2	8.0	7.6	7.8	8.2	7.9	8.0
12	8.2	8.1	8.2	8.3	8.2	8.2	8.1	7.7	7.9	8.2	8.0	8.1
13	8.3	8.1	8.2	8.3	8.2	8.2	8.1	7.8	7.9	8.2	8.0	8.1
14	8.3	8.2	8.2	8.3	8.2	8.2	8.1	7.8	7.9	8.2	8.0	8.1
15	8.3	8.0	8.2	8.3	8.2	8.2	8.1	7.7	7.9	8.2	8.0	8.1
16	8.3	8.1	8.2	8.4	8.1	8.2	8.2	7.8	7.9	8.2	8.0	8.1
17	8.3	8.0	8.2	8.3	8.1	8.2	8.1	7.8	7.9	8.2	8.0	8.1
18	8.3	8.1	8.2	8.4	8.0	8.1	8.1	7.7	7.9	8.2	8.1	8.1
19	8.3	8.1	8.2	8.3	7.8	8.0	8.2	7.8	7.9	8.2	8.1	8.1
20	8.3	8.1	8.2	8.3	7.7	8.0	8.2	7.7	7.9	8.2	8.1	8.1
21	8.3	8.1	8.2	8.5	7.7	8.0	8.2	7.8	8.0	8.2	8.1	8.1
22	8.3	8.1	8.2	8.2	7.7	7.9	8.2	7.7	7.9	8.2	8.0	8.1
23	8.3	8.1	8.2	8.2	7.6	7.9	8.1	7.7	7.9	8.2	8.0	8.1
24	8.3	8.1	8.2	8.2	7.7	7.9	8.2	7.7	8.0	8.2	8.1	8.1
25	8.3	8.2	8.2	8.1	7.7	7.9	8.2	7.7	8.0	8.2	8.1	8.2
26	8.3	8.2	8.2	8.1	7.7	7.9	8.2	7.8	8.0	8.3	8.1	8.2
27	8.3	8.2	8.2	8.1	7.6	7.8	8.3	7.8	8.0	8.3	8.1	8.2
28	8.4	8.2	8.2	8.1	7.7	7.8	8.3	7.8	8.0	8.3	8.2	8.2
29	---	---	---	8.0	7.6	7.8	8.2	7.8	8.0	8.3	8.2	8.2
30	---	---	---	8.1	7.5	7.8	8.1	7.8	7.9	8.4	8.2	8.3
31	---	---	---	8.1	7.6	7.8	---	---	---	8.4	8.2	8.3
MONTH	8.5	7.6	8.2	8.5	7.5	8.1	8.3	7.6	7.9	8.4	7.7	8.1

07079300 EAST FORK ARKANSAS RIVER AT HIGHWAY 24 NEAR LEADVILLE, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.4	8.2	8.3	---	---	---	8.4	7.7	8.2	8.4	8.2	8.3
2	8.4	8.2	8.3	---	---	---	8.4	8.3	8.3	8.4	8.2	8.3
3	8.3	8.1	8.2	---	---	---	8.3	8.3	8.3	8.3	8.2	8.2
4	8.3	8.1	8.2	---	---	---	8.3	8.2	8.3	8.6	8.1	8.2
5	8.3	8.1	8.2	---	---	---	8.3	8.2	8.2	8.3	8.2	8.2
6	8.2	8.1	8.2	---	---	---	8.3	8.2	8.2	8.3	8.2	8.2
7	8.2	8.1	8.1	---	---	---	8.2	8.1	8.2	8.3	8.2	8.2
8	8.2	8.1	8.1	---	---	---	8.3	8.1	8.2	8.3	8.2	8.2
9	8.2	8.1	8.1	---	---	---	8.2	8.1	8.1	8.3	8.1	8.2
10	8.3	8.1	8.2	---	---	---	8.2	8.1	8.2	8.3	8.1	8.2
11	8.3	8.2	8.2	---	---	---	8.3	8.1	8.2	8.3	8.1	8.2
12	8.3	8.1	8.2	---	---	---	8.2	8.1	8.2	8.3	8.1	8.2
13	8.3	8.1	8.2	---	---	---	8.2	8.1	8.1	8.2	8.0	8.1
14	8.2	7.9	8.1	8.0	7.8	7.9	8.2	8.1	8.1	8.3	7.9	8.1
15	8.1	7.9	8.0	8.0	7.8	7.9	8.3	8.0	8.1	8.2	8.0	8.1
16	8.1	8.0	8.0	8.1	7.8	7.9	8.2	8.1	8.1	8.2	8.0	8.1
17	---	---	---	8.1	7.9	8.0	8.3	8.1	8.1	8.3	8.0	8.1
18	---	---	---	8.1	7.9	8.0	8.3	8.1	8.2	8.2	8.0	8.1
19	---	---	---	8.1	8.0	8.0	8.2	8.1	8.1	8.2	8.0	8.1
20	---	---	---	8.1	8.0	8.0	8.3	8.1	8.2	8.2	8.0	8.1
21	---	---	---	8.0	7.9	8.0	8.2	8.1	8.1	8.2	8.0	8.1
22	---	---	---	8.0	7.8	7.9	8.2	8.1	8.1	8.1	7.7	8.0
23	---	---	---	8.0	7.8	7.9	8.3	8.1	8.2	8.1	7.7	7.9
24	---	---	---	8.0	7.8	7.9	8.2	8.1	8.1	8.1	7.8	8.0
25	---	---	---	7.9	7.9	7.9	8.2	8.1	8.1	8.2	7.7	8.0
26	---	---	---	8.1	7.9	8.0	8.2	8.1	8.1	8.1	7.8	8.0
27	---	---	---	8.1	7.8	8.0	8.2	8.1	8.1	8.2	7.8	8.0
28	---	---	---	8.1	7.9	8.0	8.2	8.0	8.1	8.1	7.9	8.0
29	---	---	---	8.1	7.9	8.0	8.2	7.9	8.1	8.1	7.8	8.0
30	---	---	---	8.0	7.8	7.9	8.2	8.0	8.1	8.1	7.8	8.0
31	---	---	---	8.0	7.8	7.9	8.4	8.0	8.2	---	---	---
MONTH	---	---	---	---	---	---	8.4	7.7	8.2	8.6	7.7	8.1

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.4	5.1	6.7	3.8	.1	1.7	1.5	.0	.4	.1	.0	.1
2	7.8	4.5	6.0	4.9	.2	2.3	1.3	.0	.3	.1	.0	.1
3	7.4	3.0	5.2	3.1	1.1	2.0	1.4	.0	.3	.5	.0	.2
4	9.0	4.9	6.5	3.8	.2	1.6	1.4	.0	.5	.2	.0	.1
5	7.7	4.2	5.9	3.5	.0	1.6	1.2	.2	.6	.7	.0	.3
6	7.7	3.0	5.0	6.3	.4	3.1	1.4	.0	.6	.7	.2	.3
7	6.6	3.6	5.0	5.4	.6	3.0	1.0	.0	.2	.7	.1	.3
8	9.0	2.4	5.3	2.9	1.2	1.9	1.2	.0	.2	1.4	.1	.6
9	8.7	1.8	5.2	3.2	.0	1.3	.1	.0	.1	1.5	.0	.6
10	9.3	1.7	5.3	3.2	.0	1.2	.1	.0	.1	1.1	.0	.5
11	9.7	2.2	5.8	3.0	.0	1.3	.3	.0	.1	1.4	.1	.5
12	9.5	2.3	5.7	3.3	1.1	1.8	.3	.0	.1	1.4	.0	.4
13	9.1	2.1	5.3	2.7	.0	1.1	.8	.0	.3	1.2	.0	.4
14	7.5	1.6	4.6	1.4	.0	.3	.7	.0	.3	1.9	.3	.8
15	8.0	3.4	5.1	.7	.0	.1	.3	.0	.1	1.7	.1	.7
16	7.5	2.7	4.8	1.5	.0	.5	.3	.0	.1	1.5	.0	.5
17	5.2	2.1	3.4	.7	.0	.2	.8	.0	.2	1.0	.0	.2
18	5.8	1.9	3.6	1.0	.0	.3	1.0	.0	.2	.3	.0	.1
19	6.8	2.1	3.9	1.6	.0	.5	.5	.0	.1	1.0	.0	.3
20	6.3	.4	3.2	1.7	.0	.5	.3	.0	.1	1.0	.0	.3
21	6.8	1.1	3.6	1.7	.1	.6	.8	.0	.2	.7	.0	.2
22	7.2	1.1	3.9	1.7	.0	.5	1.0	.0	.2	.5	.0	.1
23	7.0	1.0	3.7	.2	.0	.1	.8	.0	.4	.3	.0	.1
24	5.9	.7	3.2	1.1	.0	.2	1.5	.2	.7	1.1	.0	.4
25	6.9	.4	3.3	1.9	.0	.4	1.6	.0	.6	1.5	.3	.7
26	5.8	.6	3.0	.9	.0	.2	1.2	.0	.3	1.7	.2	.7
27	5.5	.7	2.9	.1	.0	.0	1.3	.0	.3	1.3	.2	.7
28	6.4	.6	3.3	.1	.0	.0	1.3	.0	.4	1.4	.0	.5
29	6.4	.5	3.4	.3	.0	.1	1.2	.0	.5	1.5	.1	.5
30	3.9	.1	2.1	1.4	.1	.6	1.9	.4	.8	1.3	.0	.4
31	2.6	.0	1.1	---	---	---	.8	.0	.3	1.6	.1	.8
MONTH	9.7	.0	4.4	6.3	.0	1.0	1.9	.0	.3	1.9	.0	.4

07080980 ST. KEVIN GULCH ABOVE TEMPLE GULCH, NEAR LEADVILLE, CO

LOCATION.--Lat 39°17'29", long 106°22'07", in SE¹/4SE¹/4 sec.6, T.9 S., R.80 W., Lake County, Hydrologic Unit 11020001, on left bank 0.15 mi upstream from fork in access road, 0.85 mi upstream from mouth, 2.7 mi from turn-off from Mountain View Drive, and 6.1 mi northwest of Leadville.

DRAINAGE AREA.--1.84 mi².

PERIOD OF RECORD.--April 1993 to current year (seasonal only).

GAGE.--Water-stage recorder. Elevation of gage is 9,900 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1. Records good. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge during period of seasonal operation, 31 ft³/s, June 17, 1995, gage height, 4.64 ft; minimum daily, 0.25 ft³/s, Sept. 28 and Oct. 6-7, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 31 ft³/s, June 17, gage height, 4.64 ft; minimum daily, 0.25 ft³/s, Oct. 6-7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	---	---	---	---	---	---	---	5.7	9.8	1.2	.67
2	.30	---	---	---	---	---	---	---	8.9	9.6	1.2	.64
3	.30	---	---	---	---	---	---	---	11	9.7	1.0	.63
4	.32	---	---	---	---	---	---	---	13	8.6	1.0	.60
5	.29	---	---	---	---	---	---	.67	15	7.3	.98	.58
6	.25	---	---	---	---	---	---	.69	18	6.6	.90	.60
7	.25	---	---	---	---	---	---	.72	18	6.3	.89	.66
8	.27	---	---	---	---	---	---	.68	16	6.2	.87	.80
9	.28	---	---	---	---	---	---	.59	14	6.2	.82	.64
10	.29	---	---	---	---	---	---	.67	13	5.9	.80	.57
11	.27	---	---	---	---	---	---	.80	13	5.4	.78	.51
12	.27	---	---	---	---	---	---	.92	15	5.1	.77	.51
13	.26	---	---	---	---	---	---	.89	19	4.8	.80	.48
14	.28	---	---	---	---	---	---	1.2	21	4.7	.75	.51
15	.29	---	---	---	---	---	---	1.9	24	3.9	.72	.46
16	.30	---	---	---	---	---	---	2.4	20	3.5	.67	.45
17	.35	---	---	---	---	---	---	2.2	23	3.4	.64	.45
18	.35	---	---	---	---	---	---	2.2	23	3.2	.63	.53
19	.31	---	---	---	---	---	---	2.6	21	2.8	.65	.48
20	.30	---	---	---	---	---	---	2.9	18	2.5	.65	.55
21	.31	---	---	---	---	---	---	3.4	18	2.3	1.1	.63
22	.30	---	---	---	---	---	---	4.6	17	2.1	.99	.56
23	.29	---	---	---	---	---	---	6.3	15	2.0	3.5	.54
24	.29	---	---	---	---	---	---	6.6	14	1.9	12	.54
25	.29	---	---	---	---	---	---	6.0	13	1.7	7.6	.54
26	.32	---	---	---	---	---	---	5.0	13	1.6	2.1	.54
27	.36	---	---	---	---	---	---	4.3	12	1.4	1.4	.51
28	.33	---	---	---	---	---	---	4.2	12	1.3	1.2	.64
29	.33	---	---	---	---	---	---	4.2	11	1.0	1.0	.97
30	.36	---	---	---	---	---	---	3.9	11	.72	.90	.70
31	.36	---	---	---	---	---	---	4.2	---	1.1	.71	---
TOTAL	9.39	---	---	---	---	---	---	---	465.6	132.62	49.22	17.49
MEAN	.30	---	---	---	---	---	---	---	15.5	4.28	1.59	.58
MAX	.36	---	---	---	---	---	---	---	24	9.8	12	.97
MIN	.25	---	---	---	---	---	---	---	5.7	.72	.63	.45
AC-FT	19	---	---	---	---	---	---	---	924	263	98	35

07081200 ARKANSAS RIVER NEAR LEADVILLE, CO

LOCATION.--Lat 39°15'26", long 106°20'35", in NW¹/₄NW¹/₄ sec. 21, T.9 S, R.80 W., Lake County, Hydrologic Unit 11020001, on right bank, 500 ft downstream from confluence of East Fork Arkansas River and Tennessee Creek, 0.5 mi downstream from highway bridge, and 2.8 mi northwest of Leadville.

DRAINAGE AREA.--98.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1967 to September 1983. April 1990 to current year.

REVISED RECORDS.--WDR CO-91-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,730 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 31 to May 2. Records good except for estimated daily discharges, which are fair. Transmountain diversions from Colorado River Basin enters above this station (see elsewhere in this report). Small diversions upstream for irrigation and municipal use, amounts unknown.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	19	18	14	13	15	18	24	204	550	178	74
2	24	19	16	14	13	14	15	28	233	516	164	71
3	23	20	16	14	12	14	15	29	247	511	154	68
4	23	19	18	12	10	14	15	29	271	459	147	65
5	24	19	18	12	13	15	18	35	292	386	147	59
6	26	20	18	13	13	14	20	33	357	390	139	57
7	25	20	16	13	12	12	21	34	381	443	131	60
8	24	20	14	12	13	12	23	32	351	479	128	72
9	24	19	12	13	13	12	23	30	339	517	117	72
10	23	18	14	13	13	15	20	35	288	546	110	64
11	23	19	16	14	12	15	20	45	281	545	103	58
12	22	20	14	12	10	15	18	48	358	558	105	54
13	22	19	16	12	10	14	20	45	452	525	119	51
14	21	18	18	14	10	14	22	51	558	499	109	52
15	23	16	16	14	12	14	21	72	663	434	97	49
16	24	18	18	14	12	16	20	89	707	404	87	47
17	23	20	17	12	10	17	22	88	907	404	81	45
18	23	23	16	12	10	17	20	91	1010	388	78	45
19	22	23	18	14	10	18	21	111	717	356	79	46
20	21	24	16	12	12	16	21	129	724	344	81	45
21	21	24	16	12	12	17	21	152	745	309	92	49
22	21	22	16	12	14	17	20	204	772	287	122	45
23	20	20	14	12	15	16	21	236	720	268	110	42
24	20	16	14	14	14	16	20	226	644	248	161	40
25	20	18	14	14	15	17	20	195	602	235	118	39
26	20	20	12	16	15	16	21	173	588	229	132	38
27	20	18	14	14	15	16	22	184	623	220	112	37
28	19	20	12	12	16	16	25	162	627	209	103	39
29	19	18	14	12	---	16	26	160	606	203	98	48
30	21	16	14	12	---	16	26	153	563	198	87	49
31	19	---	15	14	---	17	---	169	---	197	81	---
TOTAL	684	585	480	404	349	473	615	3092	15830	11857	3570	1580
MEAN	22.1	19.5	15.5	13.0	12.5	15.3	20.5	99.7	528	382	115	52.7
MAX	26	24	18	16	16	18	26	236	1010	558	178	74
MIN	19	16	12	12	10	12	15	24	204	197	78	37
AC-FT	1360	1160	952	801	692	938	1220	6130	31400	23520	7080	3130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1995, BY WATER YEAR (WY)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	25.7	20.5	16.1	14.3	13.9	14.6	28.7	155	340	138	59.0	33.9																
MAX	38.3	28.9	21.7	18.1	20.5	20.8	52.9	334	634	382	130	55.8																
(WY)	1971	1971	1983	1983	1973	1971	1989	1970	1980	1995	1983	1982																
MIN	16.5	11.6	11.6	9.15	7.93	8.82	12.7	55.3	114	35.9	23.8	16.7																
(WY)	1978	1977	1978	1977	1978	1974	1970	1981	1977	1977	1977	1974																

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1968 - 1995	
ANNUAL TOTAL	22044		39519			
ANNUAL MEAN	60.4		108		72.7	
HIGHEST ANNUAL MEAN					108	
LOWEST ANNUAL MEAN					32.4	
HIGHEST DAILY MEAN	563	Jun 2	1010	Jun 18	1010	Jun 18 1995
LOWEST DAILY MEAN	12	Dec 9	^a 10	Feb 4	^b 7.0	Feb 3 1978
ANNUAL SEVEN-DAY MINIMUM	13	Dec 23	11	Feb 12	7.0	Feb 3 1978
INSTANTANEOUS PEAK FLOW			1280	Jun 18	^c 1280	Jun 18 1995
INSTANTANEOUS PEAK STAGE			4.38	Jun 18	4.38	Jun 18 1995
ANNUAL RUNOFF (AC-FT)	43720		78390		52660	
10 PERCENT EXCEEDS	207		383		212	
50 PERCENT EXCEEDS	22		22		26	
90 PERCENT EXCEEDS	15		13		13	

a-Also occurred Feb 12-14, 17-19.

b-Also occurred Feb 4-20, 1978.

c-From rating curve extended above 730 ft³/s.

07081200 ARKANSAS RIVER NEAR LEADVILLE, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1990 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1990 to current year.
 WATER TEMPERATURE: May 1990 to current year.
 pH: May 1990 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for daily specific conductance are good except Nov. 2 to Apr. 1, which are fair. Records for water temperature are good. Records for daily pH are good except July 26 to Aug. 30 which are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 384 microsiemens, Sept. 12, 1993; minimum, 47 microsiemens, May 21, 1993.
 WATER TEMPERATURE: Maximum, 19.3°C, Aug. 11, 1994; minimum, 0.0°C, many days.
 pH: Maximum, 8.7 units, several days 1991 and 1992; minimum, 6.2 units, June 11, 1990.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 327 microsiemens, Mar. 8; minimum, 49 microsiemens, June 15.
 WATER TEMPERATURE: Maximum, 17.6°C, Aug. 11; minimum, 0.0°C, on many days.
 pH: Maximum, 8.4 units, Apr. 27, and May 10; minimum, 7.3 units, Nov. 15, Dec. 27, and May 22.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	226	222	223	242	207	218	249	241	244	290	260	274
2	225	221	223	217	201	207	258	216	242	283	257	269
3	225	222	222	228	217	225	263	241	253	280	272	277
4	230	220	223	231	216	223	254	246	249	288	260	282
5	223	201	218	256	209	222	249	239	246	285	277	281
6	220	203	214	236	215	221	245	242	244	282	272	277
7	220	201	215	226	215	219	260	223	242	275	270	272
8	231	202	217	222	218	220	256	228	245	274	266	271
9	264	248	257	245	219	224	278	221	263	273	265	270
10	271	252	264	276	218	231	267	228	255	273	263	267
11	275	256	267	266	216	232	261	222	246	273	260	269
12	262	242	256	232	222	227	269	243	259	274	254	268
13	241	226	234	239	221	227	262	255	259	277	247	269
14	219	200	215	276	231	248	256	246	253	274	262	270
15	220	201	214	301	235	268	272	238	254	273	260	269
16	215	201	211	278	231	249	267	257	263	271	259	265
17	218	208	214	246	224	234	267	252	261	281	253	267
18	219	204	214	257	224	242	271	244	259	288	255	274
19	224	210	218	250	233	239	263	240	259	283	250	271
20	230	220	224	249	234	240	279	238	260	287	254	274
21	224	207	220	241	235	237	275	249	267	291	251	272
22	229	222	227	241	227	238	272	261	266	304	253	276
23	231	228	229	290	256	278	272	262	267	299	256	283
24	235	227	230	273	228	258	265	255	259	287	268	277
25	241	227	230	264	237	243	263	255	259	278	269	274
26	237	228	231	251	239	245	268	249	260	279	267	273
27	234	231	233	264	235	244	279	241	262	275	264	273
28	237	231	233	255	239	248	274	252	264	278	262	273
29	238	231	233	251	241	248	271	262	267	272	266	270
30	235	218	227	250	242	246	265	255	262	300	270	280
31	266	201	219	---	---	---	265	255	262	271	263	269
MONTH	275	200	228	301	201	237	279	216	256	304	247	273

07081200 ARKANSAS RIVER NEAR LEADVILLE, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.9	7.6	7.8	7.9	7.5	7.6	7.7	7.5	7.6	7.9	7.4	7.6
2	7.9	7.5	7.7	7.9	7.5	7.6	7.7	7.5	7.6	7.9	7.7	7.8
3	7.9	7.5	7.6	7.8	7.5	7.6	7.7	7.5	7.6	7.9	7.7	7.8
4	7.9	7.5	7.8	7.9	7.5	7.6	7.7	7.5	7.6	7.9	7.7	7.7
5	8.1	7.6	7.8	7.8	7.5	7.6	7.7	7.6	7.6	7.7	7.6	7.7
6	7.9	7.6	7.7	7.9	7.5	7.6	7.7	7.6	7.6	7.7	7.6	7.6
7	7.9	7.6	7.7	7.9	7.5	7.6	7.7	7.6	7.6	7.7	7.5	7.6
8	8.0	7.6	7.8	7.8	7.5	7.6	7.7	7.5	7.6	7.9	7.5	7.6
9	8.0	7.5	7.8	7.9	7.4	7.6	7.6	7.5	7.5	8.0	7.8	7.9
10	8.0	7.6	7.7	7.9	7.5	7.7	7.6	7.5	7.5	8.0	7.9	7.9
11	8.0	7.6	7.8	7.9	7.6	7.7	7.6	7.5	7.5	7.9	7.7	7.8
12	8.0	7.5	7.7	7.9	7.5	7.7	7.9	7.4	7.7	7.8	7.6	7.7
13	8.1	7.5	7.8	7.9	7.5	7.7	7.8	7.6	7.7	7.8	7.6	7.7
14	8.0	7.6	7.8	7.9	7.5	7.6	7.7	7.6	7.6	7.7	7.6	7.6
15	8.0	7.6	7.7	7.8	7.3	7.6	7.8	7.5	7.6	7.8	7.6	7.6
16	7.9	7.5	7.7	7.9	7.5	7.7	7.9	7.8	7.8	7.7	7.5	7.6
17	7.8	7.5	7.6	7.8	7.5	7.6	7.9	7.7	7.8	7.8	7.5	7.6
18	7.8	7.5	7.6	7.7	7.5	7.6	7.9	7.7	7.8	7.7	7.4	7.6
19	7.9	7.4	7.6	7.7	7.5	7.6	7.9	7.7	7.8	7.8	7.5	7.6
20	8.0	7.4	7.7	7.8	7.5	7.6	7.9	7.6	7.7	7.8	7.5	7.6
21	8.0	7.5	7.7	7.8	7.5	7.6	7.9	7.6	7.8	7.8	7.4	7.6
22	7.9	7.5	7.6	7.8	7.5	7.6	7.8	7.6	7.7	8.0	7.4	7.7
23	8.0	7.4	7.6	7.7	7.4	7.5	7.7	7.6	7.6	8.0	7.8	7.9
24	8.1	7.4	7.7	7.8	7.4	7.6	7.7	7.6	7.6	8.0	7.8	7.9
25	8.0	7.5	7.7	7.8	7.5	7.6	7.7	7.6	7.6	7.9	7.7	7.8
26	8.0	7.4	7.6	7.7	7.5	7.6	7.7	7.4	7.6	7.8	7.6	7.7
27	8.0	7.4	7.6	7.9	7.4	7.6	7.7	7.3	7.5	7.9	7.6	7.7
28	8.0	7.4	7.6	7.7	7.5	7.6	7.7	7.4	7.5	7.8	7.6	7.7
29	8.0	7.4	7.6	7.7	7.5	7.6	7.7	7.5	7.6	7.8	7.6	7.7
30	7.9	7.5	7.6	7.7	7.5	7.5	7.7	7.5	7.5	7.8	7.5	7.6
31	7.9	7.5	7.7	---	---	---	7.7	7.5	7.5	7.8	7.5	7.6
MONTH	8.1	7.4	7.7	7.9	7.3	7.6	7.9	7.3	7.6	8.0	7.4	7.7
	FEBRUARY			MARCH			APRIL			MAY		
1	7.8	7.5	7.6	8.0	7.7	7.8	8.2	7.7	7.9	8.3	7.7	8.0
2	8.0	7.5	7.8	8.0	7.7	7.9	8.1	7.8	7.9	8.3	7.8	8.1
3	7.9	7.6	7.7	7.9	7.7	7.8	8.2	7.8	8.0	8.2	7.8	8.0
4	8.0	7.6	7.7	8.0	7.7	7.8	8.1	7.8	8.0	8.2	7.7	8.0
5	7.9	7.6	7.7	7.8	7.6	7.7	8.2	7.8	8.0	8.2	7.8	8.0
6	7.8	7.6	7.7	7.9	7.6	7.7	8.2	7.8	8.0	8.3	7.7	8.0
7	7.9	7.6	7.7	8.0	7.6	7.8	8.2	7.8	8.0	8.2	7.7	8.0
8	8.1	7.6	7.8	7.9	7.5	7.7	8.2	8.1	8.1	8.2	7.7	7.9
9	8.1	7.9	8.0	8.0	7.5	7.7	8.1	7.9	8.0	8.2	7.7	7.9
10	8.1	7.8	7.9	8.0	7.6	7.8	8.2	7.9	8.1	8.4	7.7	8.1
11	8.0	7.7	7.8	7.9	7.6	7.8	8.2	7.9	8.1	8.3	8.0	8.2
12	7.7	7.5	7.6	8.0	7.7	7.9	8.3	8.1	8.2	8.2	7.8	8.0
13	8.0	7.5	7.8	8.0	7.6	7.8	8.3	8.0	8.1	8.1	7.7	7.9
14	7.9	7.7	7.8	8.0	7.7	7.8	8.3	8.0	8.2	8.2	7.7	7.9
15	8.0	7.7	7.8	8.0	7.6	7.8	8.2	8.0	8.1	8.0	7.5	7.7
16	7.9	7.7	7.8	8.0	7.6	7.8	8.3	7.9	8.1	7.8	7.4	7.6
17	7.9	7.6	7.7	8.0	7.6	7.8	8.2	7.9	8.1	8.0	7.5	7.8
18	7.9	7.6	7.8	8.0	7.6	7.8	8.3	7.9	8.1	7.9	7.4	7.6
19	7.9	7.6	7.8	7.9	7.7	7.8	8.3	7.9	8.1	7.9	7.4	7.6
20	7.9	7.7	7.8	8.0	7.6	7.8	8.3	7.8	8.0	7.7	7.4	7.6
21	7.9	7.6	7.7	8.0	7.7	7.9	8.2	7.8	8.0	7.7	7.4	7.5
22	7.9	7.6	7.7	8.1	7.7	7.9	8.2	7.8	8.0	7.7	7.3	7.5
23	7.9	7.6	7.7	8.1	8.0	8.1	8.2	7.8	8.0	7.7	7.6	7.6
24	7.9	7.6	7.7	8.1	7.9	8.0	8.2	7.8	8.0	7.7	7.6	7.7
25	7.9	7.6	7.8	8.1	7.8	7.9	8.2	7.8	8.0	7.7	7.6	7.7
26	7.9	7.7	7.8	8.0	7.8	7.9	8.3	7.8	8.1	7.8	7.5	7.7
27	7.9	7.6	7.7	8.1	7.8	7.9	8.4	7.8	8.1	7.8	7.7	7.7
28	8.0	7.6	7.8	8.1	7.8	7.9	8.3	7.9	8.1	7.8	7.7	7.8
29	---	---	---	8.0	7.8	7.9	8.3	7.8	8.0	7.9	7.7	7.8
30	---	---	---	8.1	7.7	7.9	8.2	7.8	8.0	7.9	7.7	7.8
31	---	---	---	8.1	7.7	7.9	---	---	---	7.9	7.6	7.8
MONTH	8.1	7.5	7.8	8.1	7.5	7.8	8.4	7.7	8.0	8.4	7.3	7.8

07081200 ARKANSAS RIVER NEAR LEADVILLE, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.8	7.5	7.7	7.9	7.8	7.9	7.7	7.7	7.7	8.2	7.9	8.1
2	7.8	7.5	7.7	7.9	7.8	7.9	7.8	7.7	7.8	8.2	7.9	8.1
3	7.8	7.6	7.7	7.9	7.8	7.9	7.8	7.8	7.8	8.2	7.9	8.1
4	7.7	7.6	7.7	7.9	7.8	7.9	7.8	7.8	7.8	8.2	7.9	8.1
5	7.7	7.5	7.6	7.9	7.9	7.9	7.9	7.8	7.9	8.3	8.0	8.1
6	7.6	7.5	7.5	7.9	7.9	7.9	8.0	7.8	7.9	8.3	8.0	8.1
7	7.6	7.5	7.5	7.9	7.9	7.9	7.9	7.9	7.9	8.3	8.0	8.1
8	7.7	7.5	7.6	7.9	7.8	7.9	7.9	7.9	7.9	8.2	8.0	8.1
9	7.7	7.6	7.6	7.9	7.8	7.8	8.0	7.9	7.9	8.2	7.9	8.1
10	7.8	7.6	7.7	7.8	7.8	7.8	7.9	7.9	7.9	8.3	8.0	8.1
11	7.8	7.8	7.8	7.9	7.7	7.8	8.0	7.9	7.9	8.3	8.0	8.1
12	7.8	7.7	7.8	7.8	7.7	7.8	7.9	7.8	7.8	8.3	8.0	8.1
13	7.7	7.6	7.7	7.9	7.7	7.8	7.8	7.7	7.8	8.3	8.0	8.1
14	7.7	7.6	7.6	7.9	7.8	7.8	7.8	7.7	7.8	8.3	8.0	8.1
15	7.7	7.5	7.6	7.9	7.8	7.9	7.8	7.7	7.8	8.3	8.0	8.1
16	7.7	7.4	7.5	7.9	7.8	7.9	7.8	7.7	7.8	8.3	8.0	8.1
17	7.7	7.4	7.5	7.9	7.8	7.9	7.8	7.7	7.8	8.3	8.0	8.1
18	7.7	7.4	7.5	7.9	7.8	7.8	7.8	7.7	7.7	8.3	8.0	8.2
19	7.8	7.6	7.7	7.8	7.7	7.8	7.8	7.7	7.8	8.3	8.1	8.2
20	7.8	7.6	7.7	7.8	7.7	7.7	7.8	7.7	7.7	8.3	8.0	8.1
21	7.8	7.7	7.7	7.8	7.7	7.8	7.8	7.7	7.7	8.2	8.0	8.1
22	7.8	7.7	7.7	7.8	7.8	7.8	7.8	7.7	7.8	8.2	8.0	8.1
23	7.8	7.7	7.7	7.8	7.8	7.8	7.9	7.8	7.8	8.3	8.0	8.1
24	7.8	7.7	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.3	8.1	8.1
25	7.8	7.7	7.8	7.8	7.8	7.8	7.9	7.8	7.9	8.3	8.0	8.1
26	7.9	7.7	7.8	7.8	7.6	7.8	7.9	7.8	7.9	8.3	8.1	8.2
27	7.9	7.7	7.8	7.9	7.6	7.7	7.9	7.9	7.9	8.3	8.1	8.1
28	7.9	7.7	7.8	7.8	7.6	7.7	8.0	7.9	8.0	8.3	8.1	8.1
29	7.9	7.7	7.8	7.8	7.7	7.7	8.0	7.9	7.9	8.2	8.0	8.1
30	7.9	7.8	7.8	7.8	7.7	7.7	8.1	7.9	8.0	8.2	8.0	8.1
31	---	---	---	7.7	7.7	7.7	8.2	7.9	8.1	---	---	---
MONTH	7.9	7.4	7.7	7.9	7.6	7.8	8.2	7.7	7.8	8.3	7.9	8.1
YEAR	8.4	7.3	7.8									

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.3	6.0	7.5	4.4	.4	1.7	1.6	.1	.5	.7	.0	.1
2	9.4	5.3	6.9	4.9	.5	2.2	1.5	.1	.4	.3	.0	.1
3	7.5	3.8	5.6	3.0	.7	1.9	1.5	.1	.5	1.0	.0	.3
4	9.3	5.5	6.9	3.7	.0	1.3	1.5	.2	.6	.6	.0	.2
5	8.1	5.3	6.6	3.4	.1	1.3	1.0	.4	.6	.9	.2	.4
6	6.7	3.6	5.0	5.9	.3	2.6	1.2	.2	.6	.8	.3	.4
7	6.6	3.7	4.9	5.6	.5	2.8	1.1	.1	.4	.8	.1	.4
8	9.0	2.5	5.3	3.0	1.2	1.9	1.2	.0	.3	1.3	.2	.5
9	9.3	2.0	5.3	3.3	.2	1.2	.3	.0	.1	1.4	.2	.6
10	9.2	1.8	5.2	2.6	.1	1.0	.8	.1	.2	1.5	.1	.5
11	9.7	2.3	5.6	2.3	.1	1.1	.9	.1	.3	1.3	.3	.6
12	9.4	2.5	5.7	2.9	.6	1.4	1.1	.0	.3	1.2	.0	.4
13	9.2	2.5	5.5	2.2	.2	.8	1.1	.0	.4	1.0	.1	.4
14	7.3	2.3	4.8	1.2	.1	.3	.8	.1	.4	1.3	.2	.6
15	7.5	3.7	5.0	1.6	.1	.2	.9	.1	.3	1.4	.1	.5
16	7.6	2.7	4.6	1.3	.1	.4	.7	.0	.3	1.1	.1	.4
17	4.6	2.0	3.2	1.0	.0	.3	1.2	.0	.4	1.0	.0	.3
18	5.8	2.1	3.6	1.0	.1	.4	1.2	.0	.3	.6	.0	.2
19	6.6	2.3	4.0	1.3	.1	.5	1.1	.0	.3	1.0	.0	.3
20	6.7	.6	3.2	1.4	.0	.5	1.0	.0	.2	1.0	.0	.2
21	7.1	1.0	3.6	1.3	.3	.6	1.2	.0	.4	.7	.0	.2
22	7.3	1.7	3.9	1.3	.1	.5	1.2	.0	.3	.4	.0	.1
23	6.9	1.1	3.5	1.3	.0	.2	.9	.0	.4	.4	.0	.1
24	6.0	.7	2.9	1.5	.1	.3	1.4	.2	.6	1.0	.0	.3
25	6.6	.5	3.0	1.8	.1	.5	1.3	.1	.5	1.2	.2	.5
26	6.9	.5	3.0	.8	.1	.3	1.2	.0	.4	1.2	.1	.5
27	5.9	1.0	2.9	1.1	.0	.3	1.3	.0	.4	.8	.1	.4
28	6.9	.7	3.4	.5	.1	.2	1.3	.0	.4	1.1	.0	.3
29	6.5	.7	3.3	1.1	.0	.4	1.2	.1	.5	1.1	.0	.3
30	3.6	.3	2.0	1.5	.2	.6	1.4	.2	.6	1.0	.0	.2
31	1.9	.1	1.0	---	---	---	.8	.0	.3	1.2	.1	.6
MONTH	9.7	.1	4.4	5.9	.0	.9	1.6	.0	.4	1.5	.0	.4

07082400 TURQUOISE LAKE NEAR LEADVILLE, CO

LOCATION.--Lat 39°15'10", long 106°22'26", in SW¹/4NE¹/4 sec.19, T.9 S., R.80 W., Lake County, Hydrologic Unit 11020001, in control house of Sugar Loaf Dam on Lake Fork, 4.0 mi west of Leadville and 4.6 mi upstream from mouth.

DRAINAGE AREA.--28.1 mi².

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

GAGE.--Nonrecording gage read once daily. Datum of gage is 9,869.40 ft above sea level, (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir formed by earthfill dam completed in 1909, capacity,17,400 acre-ft. Enlargement of dam began Dec. 8, 1965, and closure was made Apr. 15, 1968. Enlarged capacity, 129,400 acre-ft at elevation 9,869.4 ft, crest of spillway. Dead storage, 2,770 acre-ft below elevation 9,765.90 ft, sill of lowest outlet. Figures given are total contents. Since Apr. 15,1968, Turquoise Lake has been a regulatory reservoir for the Fryingpan-Arkansas project and stores water imported from the Colorado River basin through Charles H. Boustead Tunnel for irrigation, municipal water supply, and power development. It also stores water for industrial use, and water imported from the Colorado River basin through Busk-Ivanhoe tunnel for irrigation and through Homestake tunnel for municipal water supply.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

EXTREMES (at 0800 of following day) FOR PERIOD OF RECORD.--Maximum contents, 131,820 acre-ft, July 10, 1983, elevation, 9,870.73 ft; minimum since appreciable storage was attained, 14,510 acre-ft, Oct. 1, 1968, elevation, 9,782.85 ft.

EXTREMES (at 0800 of the following day) FOR CURRENT YEAR.--Maximum contents, 129,700 acre-ft, Aug. 14, elevation, 9,869.57 ft; minimum, 32,080 acre-ft, June 1, elevation, 9,803.11 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	9,864.73	121,130	-
Oct. 31.	9,863.90	119,680	-1,450
Nov. 30.	9,855.34	104,990	-14,690
Dec. 31.	9,846.34	90,150	-14,840
CAL YR 1994.	-	-	-10,940
Jan. 31.	9,841.71	82,780	-7,370
Feb. 28.	9,835.64	73,460	-9,320
Mar. 31.	9,820.49	52,330	-21,130
Apr. 30.	9,816.85	47,710	-4,620
May 31.	9,803.14	32,110	-15,600
June 30.	9,848.46	93,580	+61,470
July 31.	9,868.77	128,270	+34,690
Aug. 31.	9,868.56	127,900	-370
Sept. 30.	9,868.45	127,700	-200
WTR YR 1995.	-	-	+6,570

07083000 HALFMOON CREEK NEAR MALTA, CO
(Hydrologic bench-mark station)

LOCATION.--Lat 39°10'20", long 106°23'19", in SE¹/4SE¹/4 sec.13, T.10 S., R.81 W., Lake County, Hydrologic Unit 11020001, on right bank 1.4 mi upstream from culvert on Halfmoon Campground road, 3.3 mi upstream from mouth, and 4.3 mi southwest of Malta.

DRAINAGE AREA.--23.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1946 to current year.

REVISED RECORDS.--WSP 2121: Drainage area at site 1.4 mi downstream. WRD Colo. 1968: 1967 (M). WDR CO-79-1: 1976 (M). WDR CO-80-1: 1954 (M).

GAGE.--Water-stage recorder with satellite telemetry. Concrete control since 1966. Elevation of gage is 9,830 ft above sea level, from topographic map. Prior to Oct. 19, 1966, at sites 1.4 mi downstream at different datums.

REMARKS.--Estimated daily discharges: Nov. 12 to Apr. 15. Records good except those for estimated daily discharges, which are poor. No regulation or diversion upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	8.4	4.8	2.4	2.5	3.6	2.5	5.5	31	225	177	69
2	12	7.1	4.8	2.4	2.6	3.6	2.5	5.3	43	206	160	64
3	11	7.2	4.6	2.3	2.6	3.6	2.5	5.0	46	188	151	60
4	12	6.8	4.5	2.2	2.6	3.6	2.5	5.3	62	156	152	56
5	12	7.7	4.4	2.2	2.5	3.6	2.5	5.7	87	135	151	53
6	12	7.7	4.3	2.1	2.4	3.5	2.5	5.4	112	160	143	50
7	11	7.3	4.0	2.1	2.4	3.0	2.5	5.7	107	221	132	52
8	11	6.7	3.5	2.1	2.4	3.0	2.5	5.8	97	272	134	57
9	11	6.9	3.0	2.1	2.3	3.0	2.5	5.6	91	330	131	50
10	11	7.0	3.0	2.1	2.3	2.8	2.4	6.4	78	371	121	45
11	11	6.5	3.2	2.1	2.2	2.8	2.2	7.9	89	396	139	42
12	10	6.5	3.0	2.1	2.2	2.8	2.3	8.0	134	410	134	39
13	9.8	6.5	3.1	2.1	2.2	2.8	2.3	6.8	183	384	132	36
14	9.8	6.5	3.2	2.1	2.1	2.8	2.3	8.3	236	337	120	34
15	11	7.0	3.0	2.1	2.1	3.0	2.4	14	258	296	100	32
16	10	7.5	3.2	2.1	2.2	3.0	2.8	17	278	296	88	31
17	9.7	7.8	3.3	2.1	2.3	2.9	2.8	19	308	291	81	30
18	9.4	8.4	3.3	2.1	2.4	2.9	3.5	18	291	247	80	32
19	9.4	7.6	3.2	2.1	2.5	2.9	3.7	18	238	249	123	30
20	10	7.6	3.0	2.2	2.7	2.9	3.6	19	256	256	112	28
21	9.6	7.6	3.0	2.2	2.9	2.9	3.7	21	286	230	153	27
22	8.8	7.6	2.9	2.2	3.0	2.8	3.6	30	290	214	148	25
23	8.9	7.6	2.9	2.2	3.1	2.8	3.7	39	282	201	152	24
24	9.0	7.2	2.9	2.2	3.2	2.7	4.0	43	278	194	153	23
25	8.8	6.6	2.8	2.2	3.4	2.7	3.9	42	268	197	155	23
26	8.6	6.0	2.8	2.3	3.5	2.7	4.1	36	278	206	159	22
27	8.0	5.8	2.8	2.3	3.5	2.6	4.1	36	314	205	126	21
28	7.6	5.6	2.8	2.4	3.7	2.6	4.5	30	342	204	108	23
29	7.7	5.2	2.8	2.4	---	2.6	4.5	28	300	202	96	26
30	7.8	5.0	2.7	2.4	---	2.6	4.7	26	255	193	85	22
31	8.4	---	2.6	2.5	---	2.6	---	26	---	189	75	---
TOTAL	308.3	208.9	103.4	68.4	73.8	91.7	93.6	548.7	5918	7661	3971	1126
MEAN	9.95	6.96	3.34	2.21	2.64	2.96	3.12	17.7	197	247	128	37.5
MAX	12	8.4	4.8	2.5	3.7	3.6	4.7	43	342	410	177	69
MIN	7.6	5.0	2.6	2.1	2.1	2.6	2.2	5.0	31	135	75	21
AC-FT	612	414	205	136	146	182	186	1090	11740	15200	7880	2230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
MEAN	10.9	7.32	5.04	3.95	3.67	3.70	6.80	43.9	128	85.0	35.8	17.8																		
MAX	24.5	16.6	8.33	7.00	7.90	10.8	13.8	76.5	208	247	128	44.3																		
(WY)	1962	1962	1986	1960	1986	1947	1989	1958	1980	1995	1995	1961																		
MIN	6.23	4.40	3.19	1.65	1.70	1.20	2.70	17.7	61.2	22.9	14.3	8.03																		
(WY)	1956	1992	1993	1977	1948	1948	1973	1995	1977	1977	1950	1974																		

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1946 - 1995

ANNUAL TOTAL	9420.2	20172.8	
ANNUAL MEAN	25.8	55.3	29.4
HIGHEST ANNUAL MEAN			55.3
LOWEST ANNUAL MEAN			14.3
HIGHEST DAILY MEAN	187	Jun 21	410
LOWEST DAILY MEAN	2.6	Dec 31	2.1
ANNUAL SEVEN-DAY MINIMUM	2.8	Dec 25	2.1
INSTANTANEOUS PEAK FLOW			546
INSTANTANEOUS PEAK STAGE			3.82
ANNUAL RUNOFF (AC-FT)	18680	40010	21320
10 PERCENT EXCEEDS	83	205	88
50 PERCENT EXCEEDS	9.6	7.6	8.8
90 PERCENT EXCEEDS	3.4	2.3	3.0

a-Also occurred Jan 7-19, Feb 14-15.
b-Also occurred Apr 2, 1948.
c-From rating curve extended above 300 ft³/s.

ARKANSAS RIVER BASIN
07083000 HALFMOON CREEK NEAR MALTA, CO--Continued
(Hydrologic Bench-mark station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- November 1966 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: May 1967 to September 1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 26.0°C, Aug. 16, 1980; minimum, 0.0°C, on many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, UM-MF (COLS./100 ML)	STREP-TOCOC CI, FECAL, KF AGAR (COLS. PER 100 ML)
NOV 18...	1245	8.5	--	8.0	0.0	0.4	9.8	K1	K1
DEC 22...	1315	5.0	94	7.4	0.0	0.5	10.0	K2	K1
FEB 28...	1530	3.7	96	7.5	0.0	0.3	9.8	<1	<1
APR 28...	1215	4.2	99	7.9	3.5	0.3	8.9	<1	<1
JUN 30...	1230	240	48	7.5	3.5	2.1	10.1	K1	K3
AUG 31...	1020	76	66	8.0	6.5	0.5	7.9	K15	K4

DATE	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-A-BONATE WATER DIS IT (MG/L AS HCO3)	CAR-B-BONATE WATER DIS IT FIELD (MG/L AS CO3)	
NOV 18...	43	11	3.8	1.5	7	0.1	0.60	51	0
DEC 22...	45	11	4.3	1.7	7	0.1	0.60	51	0
FEB 28...	42	10	4.0	1.6	8	0.1	0.70	48	0
APR 28...	41	10	4.0	1.6	8	0.1	0.60	33	0
JUN 30...	23	5.8	2.1	0.80	7	0.1	0.50	--	--
AUG 31...	30	7.5	2.6	0.90	6	0.1	0.50	37	0

DATE	ALKA-C-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)
NOV 18...	41	5.1	0.2	<0.10	5.9	50	54	1.15
DEC 22...	42	5.2	0.2	<0.10	6.6	58	55	0.78
FEB 28...	39	4.7	0.8	0.10	6.6	52	53	0.52
APR 28...	27	5.0	0.3	0.10	6.2	52	45	0.59
JUN 30...	--	2.6	0.2	<0.18	3.9	27	30	17.5
AUG 31...	30	3.7	<0.1	<0.10	4.0	32	--	--

A-Field dissolved bicarbonate, determined by incremental titration method.
B-Field dissolved carbonate, determined by incremental titration method.
C-Field total dissolved alkalinity, determined by incremental titration method.
K-Based on non-ideal colony counts.

07083000 HALFMOON CREEK NEAR MALTA, CO--Continued
(Hydrologic bench-mark station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
NOV 18...	<0.01	0.13	<0.015	<0.2	<0.01	<0.01	<0.01
DEC 22...	<0.01	0.12	0.020	<0.2	<0.01	<0.01	<0.01
FEB 28...	<0.01	0.12	<0.015	<0.2	<0.01	<0.01	<0.01
APR 28...	<0.01	0.11	<0.015	<0.2	<0.01	<0.01	<0.01
JUN 30...	<0.01	0.11	<0.015	<0.2	<0.01	<0.01	0.02
AUG 31...	<0.01	0.09	<0.015	<0.2	<0.01	<0.01	<0.01

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
NOV 18...	<10	22	<3	48	<4	5	<10	<1	<1	<1	76	<6
FEB 28...	<10	21	<3	45	<4	4	10	<1	<1	<1	77	<6
JUN 30...	20	21	<3	33	<4	2	<10	<1	<1	<1	40	<6
AUG 31...	<10	18	<3	41	<4	7	<10	<1	<1	<1	52	<6

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L)	RA-226 2 SIGMA WATER, DISS, (PCI/L)
DEC 22...	1315	0.19	0.08	<1	0.04
JUN 30...	1230	0.02	0.07	0.0	0.01

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 1994 05...	1025	12	85	5.0	JUN 1995 16...	1540	244	51	7.5
NOV 09...	1015	6.3	--	0.0	JUL 26...	1120	187	52	6.0
JAN 1995 11...	1500	2.1	105	0.0	AUG 31...	0930	76	--	5.5
MAY 25...	1515	43	75	3.5					

ARKANSAS RIVER BASIN
07083000 HALFMOON CREEK NEAR MALTA, CO--Continued
(Hydrologic bench-mark station)

CROSS-SECTION DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WILL BE PUBLISHED IN A SUBSEQUENT REPORT

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WILL BE PUBLISHED IN A SUBSEQUENT REPORT

07084500 LAKE CREEK ABOVE TWIN LAKES RESERVOIR, CO

LOCATION.--Lat 39°03'47", long 106°24'26", Lake County, Hydrologic Unit 11020001, on left bank 1.2 mi upstream from water line of Twin Lakes Reservoir at elevation 9,200 ft and 1.9 mi southwest of village of Twin Lakes.

DRAINAGE AREA.--75 mi².

PERIOD OF RECORD.--April 1946 to September 1962, October 1963 to current year. Monthly discharge only for some periods, published in WSP 1241, 1311, and 1731.

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1711: 1951(M), 1952.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,310 ft above sea level, from topographic map. Prior to May 20, 1950, at site 190 ft downstream, at different datum. May 20, 1950, to Apr. 7, 1953, at site 10 ft upstream, at present datum.

REMARKS.--Estimated daily discharges: Nov. 10 to May 10. Records fair except for estimated daily discharges, which are poor. No diversion upstream from station. Records include inflow from Roaring Fork River in Colorado River basin through Twin Lakes tunnel.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	28	17	12	8.2	8.8	12	18	180	845	484	241
2	37	26	18	11	8.4	8.6	13	20	206	780	439	271
3	32	25	18	11	8.6	8.6	13	20	306	682	412	216
4	33	34	17	10	8.7	8.4	13	18	377	570	389	210
5	39	34	16	9.6	8.9	8.4	14	21	526	483	384	170
6	38	31	16	9.4	9.0	8.2	14	21	629	554	359	156
7	38	27	15	9.4	9.0	8.2	14	23	584	727	322	216
8	37	30	15	9.4	9.2	8.0	14	22	530	898	373	236
9	36	39	15	9.6	9.0	8.4	15	22	458	1100	682	252
10	36	28	14	9.7	8.9	9.0	15	22	421	1260	622	190
11	36	26	13	9.7	8.7	9.6	14	28	451	1330	456	143
12	35	25	13	9.6	8.6	10	13	31	720	1330	662	132
13	34	25	13	9.4	8.4	11	12	28	1080	1200	515	122
14	33	24	14	9.4	8.2	12	15	30	1210	1110	424	132
15	36	22	14	9.6	8.0	13	13	48	1420	965	534	110
16	35	22	13	9.8	7.8	14	14	67	1620	952	390	128
17	70	21	13	9.8	7.6	14	14	74	2280	927	293	121
18	81	20	13	9.6	7.4	13	13	69	2290	826	336	122
19	35	20	14	9.4	7.6	13	14	191	2130	788	482	108
20	29	20	14	9.2	7.8	12	14	132	2260	818	513	111
21	33	20	13	9.0	8.0	12	12	105	2270	746	478	75
22	32	19	13	8.6	8.0	12	13	200	2310	689	574	79
23	32	18	14	8.4	8.2	11	13	232	2290	649	405	115
24	120	18	14	8.0	8.2	11	13	196	2030	608	500	110
25	38	19	13	8.2	8.4	11	12	205	1080	616	523	85
26	31	20	12	8.3	8.4	11	14	211	1100	610	453	85
27	29	20	12	8.6	8.6	11	13	197	1140	584	420	84
28	27	19	12	8.8	8.6	12	16	186	1150	566	372	85
29	28	18	13	8.6	---	13	16	132	989	556	350	84
30	29	17	13	8.3	---	13	17	102	906	531	321	81
31	28	---	12	8.2	---	12	---	175	---	521	292	---
TOTAL	1216	715	436	289.6	234.4	335.2	412	2846	34943	24821	13759	4270
MEAN	39.2	23.8	14.1	9.34	8.37	10.8	13.7	91.8	1165	801	444	142
MAX	120	39	18	12	9.2	14	17	232	2310	1330	682	271
MIN	27	17	12	8.0	7.4	8.0	12	18	180	483	292	75
AC-FT	2410	1420	865	574	465	665	817	5650	69310	49230	27290	8470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

	MEAN	42.9	27.4	19.3	14.9	13.3	13.2	30.6	317	870	415	134	66.6
MAX	185	90.0	60.0	35.0	35.0	40.0	104	704	1579	939	444	258	
(WY)	1962	1962	1962	1962	1962	1962	1962	1970	1978	1957	1995	1961	
MIN	18.8	12.4	10.3	8.68	7.00	5.00	10.1	91.8	415	81.3	41.8	23.5	
(WY)	1957	1989	1989	1981	1948	1948	1983	1995	1954	1977	1994	1974	

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1946 - 1995

ANNUAL TOTAL		50852.9		84277.2									
ANNUAL MEAN		139		231						164			
HIGHEST ANNUAL MEAN										258			1970
LOWEST ANNUAL MEAN										78.6			1977
HIGHEST DAILY MEAN				^a 1280	Jun 5		2310	Jun 22		2570	Jun 15		1978
LOWEST DAILY MEAN				^b 8.0	Feb 15		7.4	Feb 18		^c 5.0	Mar 1		1948
ANNUAL SEVEN-DAY MINIMUM				8.2	Feb 15		7.7	Feb 15		^d 5.0	Mar 1		1948
INSTANTANEOUS PEAK FLOW							2900	Jun 18		^d 3270	Jun 15		1978
INSTANTANEOUS PEAK STAGE							^e 5.06	Jun 18		5.08	Jun 15		1978
ANNUAL RUNOFF (AC-FT)		100900		167200						118800			
10 PERCENT EXCEEDS		599		701						550			
50 PERCENT EXCEEDS		32		26						33			
90 PERCENT EXCEEDS		9.1		8.6						11			

a-Also occurred Jun 6.

b-Also occurred Feb 16, 23-24, and Mar 10-11.

c-Also occurred Mar 2-31, 1948.

d-From rating curve extended above 1400 ft³/s.

e-Maximum gage height, 5.26 ft, Jun 17.

07086000 ARKANSAS RIVER AT GRANITE, CO

LOCATION.--Lat 39°02'34", long 106°15'55", in SE¹/4SW¹/4 sec.31, T.11 S., R.79 W., Chaffee County, Hydrologic Unit 11020001, on right bank at Granite, 100 ft east of U.S. Highway 24, 100 ft downstream from county bridge, and 200 ft upstream from Cache Creek.

DRAINAGE AREA.--427 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April to October 1895, May to December 1897, August to September 1898, March to October 1899, April to May 1901 (gage heights and discharge measurements only in 1895, 1899, and 1901), April 1910 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1711: 1952, 1956(M).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,914.86 ft above sea level, supplementary adjustment of 1960. Prior to Apr. 6, 1910, nonrecording gages near present site at different datums. Apr. 6, 1910 to Oct. 25, 1917, water-stage recorder or nonrecording gage at site 832 ft upstream, at different datum. Oct. 26, 1917 to Oct. 26, 1960, water-stage recorder at site 168 ft downstream, at present datum.

REMARKS.--Estimated daily discharges: Jan. 30, Feb. 16-19, 21, and Mar. 7-9. Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 6,700 acres. Turquoise Lake and Twin Lakes Reservoir, on tributaries upstream from station, have a combined capacity of 269,700 acre-ft. Transmountain diversions from Colorado River basin to Arkansas River basin enter upstream from this station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	194	296	306	245	206	323	391	771	1710	1640	732
2	110	205	279	305	253	203	324	412	671	1620	1440	714
3	109	191	278	305	243	206	322	423	712	1580	1210	690
4	108	179	284	292	247	201	335	407	816	1490	1100	684
5	112	174	286	257	253	200	338	416	881	1350	1060	570
6	145	178	289	260	250	206	322	428	1020	1180	1050	368
7	163	177	280	260	250	199	320	430	1130	1190	1130	338
8	127	178	280	265	256	199	332	429	1160	1380	1170	364
9	119	178	280	269	253	219	328	437	1100	1540	965	354
10	120	174	285	269	227	259	300	475	977	1780	801	334
11	124	173	271	269	199	259	293	502	930	2060	892	318
12	125	178	274	274	197	261	297	506	1080	2860	1100	310
13	124	174	294	271	193	255	319	488	1280	3040	1120	302
14	132	164	323	276	199	256	322	486	1520	2920	1090	318
15	152	221	315	277	199	258	304	548	1830	2620	1090	322
16	156	270	312	277	196	292	297	609	1920	2510	1120	314
17	145	267	316	271	196	333	302	698	2130	2430	1170	310
18	136	258	314	276	196	342	302	645	2570	2350	1010	286
19	134	264	313	286	196	343	308	803	2020	2140	950	263
20	126	260	309	287	199	326	305	1290	1880	1990	958	252
21	143	258	312	292	197	346	314	1290	1890	1990	950	232
22	157	257	316	292	200	356	321	1370	2100	1940	1030	207
23	156	248	324	289	201	338	321	1510	2600	1840	1150	173
24	154	248	330	289	202	336	321	1670	1300	1680	1270	170
25	153	250	325	292	202	330	336	1670	1200	1470	1180	167
26	153	244	320	274	202	326	357	1640	1150	1380	1230	167
27	160	248	319	253	202	322	366	1590	1530	1500	1130	179
28	169	302	320	241	206	320	376	1470	1880	1690	1070	197
29	169	322	323	238	---	325	385	975	1870	1620	871	246
30	175	321	330	237	---	328	391	1100	1760	1640	774	238
31	169	---	323	238	---	323	---	1280	---	1700	762	---
TOTAL	4339	6755	9420	8487	6059	8673	9781	26388	43678	58190	33483	10119
MEAN	140	225	304	274	216	280	326	851	1456	1877	1080	337
MAX	175	322	330	306	256	356	391	1670	2600	3040	1640	732
MIN	108	164	271	237	193	199	293	391	671	1180	762	167
AC-FT	8610	13400	18680	16830	12020	17200	19400	52340	86640	115400	66410	20070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1995, BY WATER YEAR (WY)

MEAN	156	129	105	101	106	124	240	691	1266	903	543	248
MAX	356	337	448	419	526	500	667	1711	2146	2367	1239	546
(WY)	1977	1983	1983	1983	1985	1985	1962	1984	1984	1983	1984	1961
MIN	82.4	64.3	48.5	39.8	45.0	55.0	97.1	191	432	217	151	104
(WY)	1932	1945	1977	1918	1919	1919	1933	1935	1934	1934	1934	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR
ANNUAL TOTAL	137338	225372				
ANNUAL MEAN	376	617				
HIGHEST ANNUAL MEAN					386	
LOWEST ANNUAL MEAN					687	1984
HIGHEST DAILY MEAN	1710	3040	Jul 13	4990	Jun 30	1957
LOWEST DAILY MEAN	92	108	Oct 4	11	Mar 15	1918
ANNUAL SEVEN-DAY MINIMUM	96	123	Oct 1	31	Jan 10	1918
INSTANTANEOUS PEAK FLOW		3140	Jul 13	5360	Jun 28	1957
INSTANTANEOUS PEAK STAGE		6.01	Jul 13	7.20	Jun 28	1957
ANNUAL RUNOFF (AC-FT)	272400	447000			279700	
10 PERCENT EXCEEDS	833	1620			1040	
50 PERCENT EXCEEDS	286	318			168	
90 PERCENT EXCEEDS	126	174			74	

07086000 ARKANSAS RIVER AT GRANITE, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1993 to current year.
 WATER TEMPERATURE: October 1993 to current year.

INSTRUMENTATION.--Water-quality monitor with electronic data logger.

REMARKS.--Records for specific conductance and water temperature are good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 221 microsiemens, Sept. 15-16, 1994; minimum, 72 microsiemens,
 May 23-24, 26-27, 1995.
 WATER TEMPERATURE: Maximum, 18.7°C, Aug. 17, 1994; minimum, 0.0°C, many days during the winter.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 218 microsiemens, Oct. 1; minimum, 72 microsiemens, May 23-24, 26-27.
 WATER TEMPERATURE: Maximum, 16.2°C, Aug. 11, 13, and Sept. 5; minimum, 0.0°C, many days during the winter.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	218	210	214	149	137	143	122	90	101	92	86	89
2	212	204	209	140	134	137	126	95	104	92	85	88
3	209	199	206	144	137	140	122	94	103	93	90	91
4	209	206	208	149	144	145	117	97	103	97	90	93
5	211	203	207	147	138	142	108	101	104	101	97	100
6	212	159	190	148	141	143	107	103	105	101	100	100
7	193	157	167	147	141	142	116	100	104	100	99	99
8	195	189	192	146	142	144	111	102	105	101	99	100
9	193	188	191	148	140	143	112	102	107	101	99	100
10	194	188	190	158	137	143	112	100	105	102	99	100
11	195	190	192	160	138	144	106	97	100	104	101	102
12	195	190	192	151	141	144	113	95	101	104	100	102
13	196	190	192	148	137	142	105	91	97	103	98	100
14	194	172	186	145	133	137	100	93	96	102	99	100
15	176	171	173	147	102	129	107	89	95	101	99	100
16	178	171	174	122	106	111	106	85	94	100	99	100
17	185	170	176	118	111	115	107	85	95	99	97	98
18	188	182	185	115	108	111	104	83	92	101	94	97
19	184	179	181	122	108	111	102	83	92	100	94	97
20	190	180	183	118	107	111	107	81	93	99	93	96
21	187	160	172	116	111	112	106	88	97	98	92	95
22	162	155	158	116	107	112	105	89	96	95	90	92
23	157	152	155	118	103	108	101	92	96	97	89	92
24	158	151	154	124	103	109	100	95	97	98	90	94
25	163	153	157	126	102	108	98	92	95	100	94	97
26	164	154	158	113	103	107	99	90	93	104	96	100
27	160	150	155	119	104	111	98	89	93	106	101	104
28	153	149	151	114	97	105	97	89	92	105	100	103
29	150	144	147	102	94	97	97	90	93	105	99	103
30	147	142	145	108	93	98	95	93	93	105	97	100
31	151	140	144	---	---	---	93	91	92	109	97	104
MONTH	218	140	178	160	93	125	126	81	98	109	85	98

07086000 ARKANSAS RIVER AT GRANITE, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	13.3	7.4	9.9	6.5	1.8	4.0	2.9	.7	1.3	2.4	.0	.8
2	10.9	5.9	8.6	7.1	3.2	4.9	2.9	.5	1.2	2.3	.3	1.0
3	9.0	5.0	7.0	4.6	3.0	3.9	3.0	.4	1.2	2.4	.5	1.1
4	10.7	6.7	8.5	5.9	1.4	3.2	3.1	.7	1.4	2.2	.5	1.1
5	9.5	7.1	8.3	5.6	1.1	3.3	1.9	1.0	1.3	2.3	1.0	1.4
6	8.8	4.7	6.7	7.4	1.8	4.4	2.5	.5	1.3	2.1	.8	1.2
7	8.6	4.9	6.6	7.6	2.5	4.9	1.4	.0	.5	2.5	.7	1.4
8	10.7	3.5	6.8	5.3	3.1	4.0	1.3	.0	.5	2.9	.6	1.4
9	10.7	2.7	6.6	5.4	1.1	3.2	1.0	.0	.1	3.1	.7	1.4
10	10.8	2.4	6.6	5.0	.9	2.9	1.6	.0	.3	3.3	.6	1.5
11	11.1	3.2	7.2	4.9	1.1	3.1	2.0	.0	.5	3.0	1.0	1.6
12	10.9	3.7	7.3	4.4	2.4	3.4	2.1	.0	.6	3.0	.4	1.3
13	9.7	3.8	6.6	4.1	1.2	2.4	2.4	.4	1.1	3.1	.4	1.4
14	7.4	3.4	5.5	3.5	.0	1.2	2.3	.1	1.0	3.3	1.0	1.7
15	8.1	4.0	5.5	3.2	.0	1.0	2.3	.0	.7	2.8	1.1	1.6
16	8.5	3.0	5.6	3.8	1.0	2.1	2.5	.3	.9	2.7	.4	1.2
17	5.6	3.3	4.4	2.7	1.2	1.8	2.7	.6	1.2	2.9	.0	.9
18	5.4	1.9	3.7	1.9	1.0	1.4	2.7	.4	1.1	2.0	.0	.7
19	7.6	2.3	4.7	3.7	1.2	2.0	2.2	.4	.9	2.6	.2	1.0
20	8.1	.9	4.3	3.1	.8	1.7	2.6	.2	1.0	2.8	.2	1.0
21	8.3	1.6	4.8	3.0	1.8	2.2	2.7	.4	1.1	2.6	.2	.9
22	9.0	2.9	5.6	3.0	.1	1.6	2.7	.5	1.2	2.2	.0	.7
23	8.3	2.5	5.3	3.1	.0	.8	2.2	.8	1.4	2.5	.0	.8
24	7.7	2.4	5.0	3.0	.0	1.0	2.8	1.0	1.5	2.8	.3	1.2
25	7.9	1.9	4.8	3.2	.8	1.5	2.9	.8	1.4	2.7	.7	1.4
26	8.1	2.0	4.7	2.0	.0	1.2	2.9	.6	1.3	2.8	.9	1.5
27	7.2	2.7	4.7	.4	.0	.0	3.0	.6	1.3	2.4	.3	1.1
28	8.7	2.9	5.5	.0	.0	.0	2.9	.7	1.4	2.6	.1	1.0
29	8.0	2.7	5.2	.8	.0	.2	2.9	.9	1.6	2.9	.0	1.1
30	6.5	2.5	4.7	2.3	.8	1.2	2.9	1.3	1.7	3.1	.0	.9
31	5.3	.2	2.8	---	---	---	2.3	.4	1.2	2.8	.4	1.3
MONTH	13.3	.2	5.9	7.6	.0	2.3	3.1	.0	1.1	3.3	.0	1.2
	FEBRUARY			MARCH			APRIL			MAY		
1	3.5	.8	1.6	1.6	.2	.6	5.8	.0	2.6	7.2	1.0	4.2
2	3.4	.7	1.6	3.1	.1	1.2	6.1	.5	2.7	7.8	2.8	5.0
3	3.2	.3	1.3	4.7	.0	1.7	6.5	.6	3.1	7.0	2.2	4.4
4	3.9	.3	1.6	4.6	.1	1.6	6.8	.8	3.5	7.4	1.7	4.6
5	3.5	.6	1.7	2.7	.0	.9	5.9	1.1	3.2	6.4	3.7	4.9
6	3.7	.8	1.7	4.0	.0	1.2	7.1	1.1	3.8	8.0	1.8	4.8
7	3.6	.8	1.8	3.3	.0	.8	7.2	1.1	3.9	7.1	2.6	4.4
8	3.1	.9	1.6	3.9	.0	.9	7.2	1.6	4.3	7.1	2.3	4.3
9	3.9	.6	1.6	4.2	.0	1.3	3.7	1.5	2.1	6.1	2.4	4.1
10	2.9	.7	1.4	4.6	.0	1.7	5.2	.8	2.5	7.7	2.5	5.2
11	1.1	.0	.3	3.6	.5	1.8	4.7	.0	2.0	8.1	3.7	5.9
12	1.5	.0	.5	3.5	.6	1.7	7.4	1.0	3.8	6.3	3.6	5.1
13	3.6	.6	1.6	4.4	.0	1.9	7.9	1.5	4.5	6.6	2.2	4.6
14	1.5	.0	.7	5.3	.2	2.5	6.4	1.7	3.9	9.7	3.6	6.6
15	3.0	.0	.8	5.6	.4	2.8	3.5	1.3	2.5	10.0	3.8	7.0
16	3.7	.0	1.0	6.1	1.2	3.1	7.2	1.0	3.8	7.2	3.9	5.6
17	3.3	.0	.9	5.1	1.8	2.9	4.1	1.5	2.7	5.9	2.2	4.3
18	3.5	.0	1.2	5.8	.8	2.9	6.8	1.1	3.5	8.7	2.9	5.7
19	3.9	.0	1.3	3.5	1.3	2.1	5.4	.7	2.9	9.6	3.7	6.2
20	4.5	.0	1.5	4.8	.1	2.4	6.8	.9	3.5	6.6	3.9	5.2
21	3.7	.0	1.3	6.1	1.4	3.4	4.7	1.8	3.1	7.1	3.4	5.2
22	4.6	.1	1.7	5.5	1.4	3.0	6.2	.9	3.1	8.2	3.7	5.7
23	4.5	.0	1.5	5.4	.1	2.5	4.8	1.2	2.9	7.4	3.2	5.3
24	4.6	.0	1.5	4.7	1.1	2.4	6.7	.5	3.3	7.3	3.8	5.4
25	3.9	.0	1.4	2.9	.5	1.4	7.1	1.4	3.8	6.2	4.0	5.2
26	3.6	.0	1.4	3.9	.5	1.8	7.6	1.9	4.3	7.8	4.3	5.9
27	3.7	.3	1.5	4.8	.0	2.0	7.9	1.8	4.8	7.8	4.8	6.2
28	3.4	.6	1.5	3.4	.2	1.4	7.5	3.1	5.1	7.1	4.4	5.7
29	---	---	---	2.7	.0	.9	5.4	2.9	4.2	8.5	4.8	6.3
30	---	---	---	4.8	.0	2.0	4.8	2.2	3.5	7.2	4.1	5.8
31	---	---	---	4.4	.0	1.8	---	---	---	8.5	5.4	6.9
MONTH	4.6	.0	1.3	6.1	.0	1.9	7.9	.0	3.4	10.0	1.0	5.3

07086500 CLEAR CREEK ABOVE CLEAR CREEK RESERVOIR, CO

LOCATION.--Lat 39°01'05", long 106°16'38", in SE¹/₄ sec.12, T.12 S., R.80 W., Chaffee County, Hydrologic Unit 11020001, on right bank 0.5 mi upstream from water line of Clear Creek Reservoir at elevation 8,875 ft, 1.5 mi downstream from unnamed tributary, and 1.9 mi southwest of Granite.

DRAINAGE AREA.--67.1 mi².

PERIOD OF RECORD.--May 1946 to current year. Monthly discharge only for some periods, published in WSP 1241, and 1311.

REVISED RECORDS.--WSP 2121: Drainage area. WDR CO-91-1: 1990 (M).

GAGE.--Water-stage recorder. Elevation of gage is 8,885 ft above sea level, from topographic map. May 7, 1946, to Apr. 20, 1954, water-stage recorder at site 133 ft upstream at different datum. Apr. 21 1954 to May 28, 1958, water-stage recorder 333 ft upstream at different datum. Datum raised 2.19 ft, Apr. 21, 1954.

REMARKS.--Estimated daily discharges: Oct. 31, Nov. 5, 9-11, Nov. 14 to Mar. 15, Mar. 20, 23, Mar. 25 to Apr. 3, Apr. 11, 20, and Apr. 24. Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 250 acres upstream from station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	28	18	14	12	12	11	21	88	522	311	144
2	47	28	19	13	13	12	12	25	113	477	287	135
3	44	28	19	13	13	12	10	24	122	456	274	130
4	43	28	18	13	13	13	12	23	150	376	256	122
5	45	27	18	13	13	14	13	25	169	337	251	117
6	47	27	17	13	13	13	16	24	222	401	239	113
7	46	27	17	13	13	13	18	25	234	530	226	127
8	44	27	16	13	13	12	19	28	222	682	230	144
9	43	27	15	14	12	12	18	28	207	820	226	127
10	42	26	15	14	12	12	14	28	189	875	200	113
11	42	25	15	14	12	13	13	32	196	897	215	104
12	42	26	15	14	11	14	16	36	269	1030	215	94
13	41	24	15	13	11	13	19	32	359	954	196	88
14	41	23	16	13	11	12	19	31	463	908	196	88
15	43	22	16	14	11	13	16	40	561	780	169	82
16	41	21	16	14	11	13	16	49	617	770	162	79
17	40	20	15	14	10	14	17	56	692	790	147	76
18	38	20	15	13	10	15	16	54	635	617	147	74
19	37	21	16	12	11	15	17	56	515	585	200	74
20	35	21	15	13	12	15	15	61	593	553	189	70
21	34	22	15	13	13	17	15	69	701	492	182	69
22	34	22	16	12	14	16	15	90	720	441	179	64
23	33	21	16	12	14	13	14	104	692	408	200	61
24	33	20	15	12	14	14	13	106	635	348	193	59
25	32	20	15	13	13	13	15	102	663	359	226	58
26	31	21	15	13	13	12	18	96	682	370	222	56
27	30	21	15	13	13	21	19	100	790	389	186	55
28	30	20	15	13	12	11	21	98	864	389	226	55
29	29	19	15	12	---	12	22	92	701	376	222	61
30	29	18	15	12	---	11	24	84	644	364	182	58
31	28	---	14	12	---	11	---	80	---	332	159	---
TOTAL	1192	700	492	404	343	413	483	1719	13708	17628	6513	2697
MEAN	38.5	23.3	15.9	13.0	12.2	13.3	16.1	55.5	457	569	210	89.9
MAX	48	28	19	14	14	21	24	106	864	1030	311	144
MIN	28	18	14	12	10	11	10	21	88	332	147	55
AC-FT	2360	1390	976	801	680	819	958	3410	27190	34970	12920	5350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

MEAN	29.8	19.7	15.1	12.2	11.2	11.1	18.6	109	302	177	73.0	43.4
MAX	71.2	33.7	25.0	22.0	25.0	28.0	65.0	203	531	771	210	97.7
(WY)	1962	1987	1962	1962	1962	1962	1962	1984	1952	1957	1995	1970
MIN	15.5	7.77	8.50	5.50	5.00	5.00	6.50	40.2	89.4	41.8	30.6	17.8
(WY)	1979	1956	1956	1964	1964	1948	1964	1975	1977	1977	1974	1974

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1946 - 1995

ANNUAL TOTAL	22980.4	46292	
ANNUAL MEAN	63.0	127	68.8
HIGHEST ANNUAL MEAN			134
LOWEST ANNUAL MEAN			29.3
HIGHEST DAILY MEAN	492	1030	1300
LOWEST DAILY MEAN	^a 7.8	^b 10	^c 5.0
ANNUAL SEVEN-DAY MINIMUM	8.1	11	5.0
INSTANTANEOUS PEAK FLOW		1300	1300
INSTANTANEOUS PEAK STAGE		5.29	5.29
ANNUAL RUNOFF (AC-FT)	45580	91820	49820
10 PERCENT EXCEEDS	186	421	195
50 PERCENT EXCEEDS	30	27	24
90 PERCENT EXCEEDS	9.0	12	10

a-Also occurred Mar 11.

b-Also occurred Feb 18 and Apr 3.

c-Many days some years.

07091200 ARKANSAS RIVER NEAR NATHROP, CO

LOCATION.--Lat 38°39'08", long 106°03'02", in SE¹/4SW¹/4 sec.23, T.51 N., R.8 E., Chaffee County, Hydrologic Unit 11020001, on right bank 300 ft upstream from end of Chaffee County Road 194 in Browns Canyon, 3.7 mi downstream from Browns Creek, 6.7 mi south of Nathrop, and 9 mi north of Salida.

DRAINAGE AREA.--1,060 mi².

PERIOD OF RECORD.--October 1964 to September 1982. April 1989 to September 1993. October 1993 to current year (seasonal record only). Water-quality data available April 1989 to September 1993.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,350 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Sept. 23-30. Records good. Natural flow of stream affected by transmountain diversions (see elsewhere in this report), storage reservoirs, power development, diversions for irrigation of about 15,000 acres, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,540 ft³/s, July 14, 1995, gage height, 8.63 ft, maximum gage height, 9.94 ft, Aug. 31, 1978, backwater from unnamed tributary; minimum daily discharge, 95 ft³/s, Feb. 25-27, 1977.

EXTREMES FOR CURRENT SEASON.--Maximum discharge, 5,540 ft³/s, July 14, gage height, 8.63 ft; minimum daily discharge, 268 ft³/s, Oct. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	274	378	---	---	---	---	397	513	1000	3440	2630	1250
2	272	415	---	---	---	---	406	522	800	3300	2450	1250
3	268	396	---	---	---	---	411	544	902	3160	2170	1240
4	282	379	---	---	---	---	432	514	1080	2920	1940	1220
5	293	357	---	---	---	---	450	520	1220	2600	1870	1120
6	323	374	---	---	---	---	410	533	1590	2500	1830	830
7	401	372	---	---	---	---	420	515	1820	2660	1840	779
8	373	369	---	---	---	---	424	519	1820	3030	1930	866
9	345	364	---	---	---	---	464	522	1770	3410	1800	867
10	332	356	---	---	---	---	405	568	1530	3800	1490	815
11	330	360	---	---	---	---	378	632	1410	4090	1480	777
12	330	370	---	---	---	---	383	653	1740	5040	1760	748
13	331	369	---	---	---	---	405	633	2390	5320	1780	711
14	331	353	---	---	---	---	437	606	2800	5300	1780	706
15	381	327	---	---	---	---	396	664	3300	4780	1710	711
16	384	---	---	---	---	---	380	768	3570	4550	1790	689
17	384	---	---	---	---	418	394	1000	3930	4490	1750	664
18	366	---	---	---	---	418	387	903	4850	4290	1580	646
19	358	---	---	---	---	450	428	788	4220	3950	1500	614
20	354	---	---	---	---	415	404	1360	4110	3780	1630	591
21	341	---	---	---	---	431	401	1360	4300	3530	1560	553
22	379	---	---	---	---	468	424	1580	4750	3480	1610	546
23	370	---	---	---	---	427	418	1990	5470	3250	1840	520
24	369	---	---	---	---	427	412	2170	3690	2980	1890	480
25	369	---	---	---	---	415	427	2090	3370	2720	1910	480
26	365	---	---	---	---	411	496	2080	3250	2600	2020	470
27	359	---	---	---	---	394	481	2040	3600	2570	1850	450
28	374	---	---	---	---	408	483	1870	4120	2730	1790	450
29	369	---	---	---	---	395	500	1640	3910	2710	1630	470
30	367	---	---	---	---	396	521	1170	3590	2630	1430	520
31	367	---	---	---	---	398	---	1580	---	2720	1380	---
TOTAL	10741	---	---	---	---	---	12774	32847	85902	108330	55620	22033
MEAN	346	---	---	---	---	---	426	1060	2863	3495	1794	734
MAX	401	---	---	---	---	---	521	2170	5470	5320	2630	1250
MIN	268	---	---	---	---	---	378	513	800	2500	1380	450
AC-FT	21300	---	---	---	---	---	25340	65150	170400	214900	110300	43700

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO

LOCATION.--Lat 38°39'32", long 105°48'48", in SE¹/4SE¹/4 sec.13, T.51 N., R.75 W., Fremont County, Hydrologic Unit 11020001, on left bank 0.1 mi downstream from County Road 2, 1.0 mi upstream from Steer Creek, 14.3 mi north of Howard, and 14.6 mi upstream from mouth.

DRAINAGE AREA.--106 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1980 to September 1986, October 1986 to October 1988 (seasonal only), at site 0.2 mi downstream. March 1989 to June 1994, at site 0.1 mi downstream (seasonal only). Not equivalent because of seepage at previous site. July 1994 to current year (seasonal only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,790 ft above sea level, from topographic map. Prior to October 28, 1988 at site 0.2 mi downstream, at different datum. Prior to July 1, 1994, at site 0.1 mi downstream, at different datum.

REMARKS.--Estimated daily discharges: October 31, April 1 to June 20, July 28-31, and August 27. Records fair except those for estimated daily discharges, and those below 0.50 ft³/s, which are poor.

AVERAGE DISCHARGE.--5 years (water years 1981-86), 5.89 ft³/s; 4,270 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,360 ft³/s, Aug. 14, 1983, gage height, 8.22 ft, result of indirect determination of peak flow; no flow, July 17-23, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 7.6 ft³/s, Aug. 26, gage height, 1.81 ft; minimum daily, 0.22 ft³/s, Aug. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.66	---	---	---	---	---	1.8	2.2	5.5	2.9	.31	.51
2	.74	---	---	---	---	---	1.6	2.3	5.5	2.9	.23	.53
3	.78	---	---	---	---	---	1.4	2.5	6.0	2.7	.22	.61
4	.73	---	---	---	---	---	1.5	3.0	6.0	2.6	.25	.56
5	.82	---	---	---	---	---	1.6	3.5	5.5	2.3	.29	.52
6	1.0	---	---	---	---	---	1.6	3.5	5.0	2.2	.24	.45
7	.98	---	---	---	---	---	1.6	3.5	5.0	1.9	.25	.72
8	1.0	---	---	---	---	---	1.7	3.5	5.5	1.8	.26	.91
9	1.0	---	---	---	---	---	1.7	4.0	5.0	1.6	.26	.91
10	.97	---	---	---	---	---	1.7	4.5	4.5	1.5	.32	.93
11	.91	---	---	---	---	---	1.8	5.0	3.5	1.2	.31	.98
12	.91	---	---	---	---	---	1.6	5.3	3.0	1.0	.33	.87
13	.91	---	---	---	---	---	1.8	5.2	2.5	.90	.42	.82
14	.91	---	---	---	---	---	1.8	5.8	2.0	.87	.40	.82
15	1.0	---	---	---	---	---	1.5	5.8	1.8	1.0	.34	.82
16	1.1	---	---	---	---	---	1.8	6.0	2.0	.91	.34	.78
17	.93	---	---	---	---	---	1.6	6.2	2.1	.86	.31	.81
18	.90	---	---	---	---	---	1.8	6.4	1.9	.88	.23	.82
19	.91	---	---	---	---	---	1.8	6.4	1.8	.82	.25	.86
20	.86	---	---	---	---	---	1.8	6.4	1.8	.77	.34	.91
21	.84	---	---	---	---	---	1.8	6.4	2.0	.58	.43	.91
22	.69	---	---	---	---	---	1.6	6.3	1.9	.58	.46	.91
23	.64	---	---	---	---	---	1.6	5.7	1.6	.54	.45	.98
24	.65	---	---	---	---	---	1.6	5.5	1.6	.52	.50	.91
25	.58	---	---	---	---	---	1.8	6.0	1.7	.47	.63	.91
26	.55	---	---	---	---	---	1.8	5.5	1.8	.39	1.0	.91
27	.53	---	---	---	---	---	1.9	5.0	1.8	.35	.60	.91
28	.49	---	---	---	---	---	1.8	5.5	1.8	.33	.59	.97
29	.44	---	---	---	---	---	1.8	6.0	2.5	.33	.65	1.0
30	.50	---	---	---	---	---	2.0	6.5	2.8	.33	.65	1.0
31	.42	---	---	---	---	---	---	6.0	---	.34	.58	---
TOTAL	24.35	---	---	---	---	---	51.2	155.4	95.4	36.37	12.44	24.55
MEAN	.79	---	---	---	---	---	1.71	5.01	3.18	1.17	.40	.82
MAX	1.1	---	---	---	---	---	2.0	6.5	6.0	2.9	1.0	1.0
MIN	.42	---	---	---	---	---	1.4	2.2	1.6	.33	.22	.45
AC-FT	48	---	---	---	---	---	102	308	189	72	25	49

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1989 to current year (seasonal record only). Daily water temperature record March 21, 1995 to current year (seasonal record only). February 1981 to October 1988 (seasonal record only) and at site 1,000 ft downstream, not equivalent because of seepage at previous site.

PERIOD OF DAILY RECORD.--Suspended sediment discharge March 1989 to current year (seasonal only). June 1981 to October 1988 (seasonal only) and at site 1,000 ft downstream, not equivalent because of seepage at previous site. Daily water temperature record March to September 1995 (seasonal record only).

INSTRUMENTATION.--Pumping sediment sampler since June 1981. Water temperature probe since March 1995.

REMARKS.--Records for water temperature are good. Daily water temperature data that are not published during period of seasonal operation are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 30.7 C, July 28, 1995; minimum, 0.1 degrees Celsius, many days.
 SEDIMENT CONCENTRATIONS: Maximum daily, 25,800 mg/L, Aug. 20, 1982; minimum daily, 0 mg/L, many days.
 SEDIMENT LOADS: Maximum daily, 15,600 tons, Aug. 14, 1983; minimum daily, 0 tons, many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 30.7 C, July 28; minimum, 0.1 degrees Celsius, many days.
 SEDIMENT CONCENTRATIONS: Will be published in a subsequent report.
 SEDIMENT LOADS: Will be published in a subsequent report.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	13.5	.1	4.7	11.8	1.3	6.1
2	---	---	---	---	---	---	9.8	.1	3.9	12.6	3.3	7.5
3	---	---	---	---	---	---	14.2	.1	5.5	9.9	2.8	6.5
4	---	---	---	---	---	---	16.1	.1	6.4	9.6	2.8	6.3
5	---	---	---	---	---	---	11.2	.1	4.4	7.7	4.6	6.1
6	---	---	---	---	---	---	13.7	.1	5.1	9.7	2.8	6.1
7	---	---	---	---	---	---	15.8	.2	6.6	7.9	3.3	5.7
8	---	---	---	---	---	---	15.4	.2	6.8	8.3	2.8	5.4
9	---	---	---	---	---	---	4.5	.2	1.0	10.6	3.4	6.6
10	---	---	---	---	---	---	7.4	.1	1.2	9.9	4.2	7.1
11	---	---	---	---	---	---	2.6	.2	.7	13.9	5.4	8.9
12	---	---	---	---	---	---	6.0	.2	1.2	12.0	3.2	7.5
13	---	---	---	---	---	---	13.0	.2	5.3	15.1	.8	7.1
14	---	---	---	---	---	---	12.0	.2	5.1	17.6	1.9	8.8
15	---	---	---	---	---	---	2.9	.2	1.5	18.5	4.2	10.1
16	---	---	---	---	---	---	14.1	.2	4.9	11.0	2.1	7.4
17	---	---	---	---	---	---	6.5	.2	2.0	8.0	1.8	5.1
18	---	---	---	---	---	---	12.8	.2	3.9	17.3	.3	7.8
19	---	---	---	---	---	---	8.4	.2	2.0	18.2	3.0	10.1
20	---	---	---	---	---	---	9.6	.2	3.5	15.6	5.9	10.5
21	---	---	---	10.0	---	---	8.1	.2	3.2	15.5	4.5	10.4
22	---	---	---	9.8	.2	3.4	7.8	.3	2.7	17.8	6.3	11.0
23	---	---	---	8.9	.2	3.0	10.9	.3	3.4	14.5	5.3	8.4
24	---	---	---	9.4	.2	3.3	15.4	.3	5.9	15.6	3.2	8.3
25	---	---	---	2.6	.2	.6	13.0	.5	5.9	9.3	4.1	6.2
26	---	---	---	5.1	.2	1.4	13.1	.5	5.4	15.3	3.1	8.5
27	---	---	---	9.8	.2	2.9	15.7	1.9	7.8	15.4	3.8	8.6
28	---	---	---	1.8	.2	.4	13.3	2.0	7.3	11.9	2.2	7.2
29	---	---	---	3.1	.2	.6	12.6	1.7	6.6	9.3	4.0	6.6
30	---	---	---	6.7	.2	2.0	10.9	3.8	6.7	15.1	4.0	8.7
31	---	---	---	10.1	.2	3.1	---	---	---	16.2	5.3	10.1
MONTH	---	---	---	---	---	---	16.1	.1	4.4	18.5	.3	7.8

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	20.4	4.9	11.0	18.4	7.4	12.6	30.0	10.3	17.5	25.7	5.7	16.0
2	16.0	5.7	10.8	20.4	7.4	13.3	26.1	7.3	15.6	25.3	9.1	15.4
3	21.0	7.3	12.2	15.1	7.3	10.3	27.4	6.4	15.2	24.7	8.0	15.4
4	18.3	3.5	10.6	19.5	4.9	11.3	23.3	7.8	14.3	24.9	8.5	15.6
5	21.5	5.5	13.0	23.8	5.5	13.9	26.6	6.8	15.4	24.8	7.5	15.3
6	19.9	7.1	12.6	25.5	6.8	15.2	25.0	6.0	14.9	22.5	10.4	14.6
7	17.8	4.8	10.8	24.5	7.2	15.3	28.1	6.6	15.1	16.1	10.4	12.7
8	18.7	5.3	10.6	23.5	7.4	14.9	26.5	8.1	16.2	21.0	9.5	13.8
9	20.2	4.1	11.5	26.1	7.9	15.9	19.5	9.1	14.4	18.3	10.6	13.4
10	16.9	6.2	11.2	25.3	7.7	15.3	26.9	4.2	16.0	21.4	8.2	13.3
11	24.2	6.8	14.1	28.5	7.2	16.6	25.9	11.2	17.2	17.2	6.2	11.4
12	25.3	6.3	15.0	28.0	7.6	16.6	24.1	8.1	15.2	22.0	3.9	11.7
13	23.5	7.5	14.7	22.9	7.5	14.4	25.1	10.1	16.6	21.0	5.8	11.9
14	20.5	7.8	14.4	18.3	7.2	12.7	17.8	10.2	13.7	20.8	7.7	12.3
15	18.8	9.1	13.4	25.9	8.6	15.8	27.5	7.7	16.2	21.2	4.6	12.0
16	19.6	8.2	13.1	23.3	9.5	15.8	22.8	7.6	14.9	22.3	4.8	12.0
17	16.3	8.2	10.9	21.3	10.8	13.9	28.5	10.4	17.5	18.4	4.6	11.1
18	21.7	4.6	12.2	19.8	9.1	14.2	28.5	8.7	17.0	16.4	5.6	9.7
19	22.3	6.4	13.6	21.8	9.4	14.6	22.0	12.4	15.6	14.6	4.3	8.8
20	24.2	6.3	14.4	24.1	7.1	14.9	27.2	9.3	16.8	15.2	4.9	9.1
21	23.5	6.2	14.3	23.3	6.4	13.9	26.0	9.2	15.2	7.4	.7	4.4
22	24.8	6.1	13.6	23.6	6.2	13.8	20.2	8.6	14.1	15.7	.6	6.6
23	21.5	6.1	12.6	17.6	5.7	11.9	24.6	10.4	16.4	14.9	.2	6.2
24	21.3	6.8	13.0	25.3	4.9	13.7	23.4	9.8	15.6	9.3	3.3	5.9
25	24.8	8.1	14.2	26.2	4.9	14.7	19.8	9.0	14.2	17.1	2.9	8.2
26	24.8	5.6	14.1	27.4	5.2	15.1	25.5	9.6	13.6	14.3	2.0	7.4
27	24.0	6.0	13.6	29.2	4.5	15.9	24.5	9.2	14.8	17.7	2.7	8.9
28	21.2	6.4	12.3	30.7	6.0	16.8	24.6	8.6	15.7	12.2	3.6	7.4
29	11.5	7.3	9.3	28.7	7.4	16.8	25.5	9.3	16.5	12.4	4.1	7.0
30	14.7	6.9	10.2	28.3	8.0	16.0	20.8	7.9	14.1	12.9	1.1	6.4
31	---	---	---	21.7	8.2	14.1	27.4	7.1	15.7	---	---	---
MONTH	25.3	3.5	12.6	30.7	4.5	14.5	30.0	4.2	15.5	25.7	.2	10.8

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WILL BE PUBLISHED IN A SUBSEQUENT REPORT

07093775 BADGER CREEK, LOWER STATION, NEAR HOWARD, CO

LOCATION.--Lat 38°28'02", long 105°51'34", in SW¹/4SW¹/4 sec.27, T.49 N., R.10 E., Fremont County, Hydrologic Unit 11020001, on left bank 660 ft upstream from Denver and Rio Grande Railroad bridge, 960 ft upstream from mouth, and 1.9 mi northwest of Howard.

DRAINAGE AREA.--211 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1980 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,780 ft above sea level, from topographic map. Prior to May 19, 1983, at site 360 ft downstream, at datum 5.07 ft, lower.

REMARKS.--Estimated daily discharges: Nov. 19 to Feb. 19. Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	6.4	4.9	3.1	5.0	8.0	8.9	13	29	28	9.8	6.2
2	6.4	6.2	5.0	3.1	4.6	9.5	8.7	14	28	26	9.2	6.2
3	6.2	6.2	5.1	3.1	4.8	7.8	8.9	15	29	23	8.9	6.2
4	6.5	6.5	5.2	3.1	5.4	7.4	9.3	15	31	21	8.4	6.1
5	5.6	6.6	5.3	3.1	5.4	7.6	10	16	31	20	8.8	5.7
6	6.1	7.0	5.2	3.1	5.7	8.1	9.9	17	30	18	8.7	5.8
7	5.5	6.6	5.3	3.0	5.4	8.1	11	17	29	18	8.7	6.6
8	5.4	6.6	5.3	3.7	6.1	8.2	11	17	29	18	8.8	7.7
9	5.2	6.6	5.3	3.7	5.5	7.8	12	17	31	17	8.6	7.6
10	5.2	6.4	5.4	3.4	5.8	7.8	11	17	30	16	8.3	7.5
11	5.2	6.5	5.5	3.9	6.0	9.3	10	18	28	16	8.4	6.7
12	5.2	6.8	5.6	4.5	6.0	15	9.7	18	27	15	8.3	6.4
13	5.2	6.5	5.8	4.7	6.2	11	11	19	26	15	8.3	6.2
14	5.2	6.4	5.9	4.6	6.4	11	13	18	24	16	8.4	6.2
15	6.1	6.3	6.0	4.7	6.4	11	12	20	24	17	8.7	6.2
16	5.8	6.2	6.0	4.5	6.6	12	11	23	24	17	7.9	6.1
17	5.8	6.5	6.2	4.5	6.6	12	12	29	24	17	7.7	5.4
18	5.8	6.0	6.2	4.5	6.6	12	11	27	28	18	7.4	5.4
19	5.8	6.0	6.3	4.6	6.6	12	13	30	25	17	7.0	5.4
20	6.1	5.9	6.2	4.7	6.6	11	12	31	23	16	7.0	5.4
21	6.2	5.9	5.9	4.8	6.6	11	13	29	22	15	7.0	5.4
22	6.2	5.8	5.8	4.8	6.6	12	13	28	21	15	7.8	5.8
23	6.2	5.8	4.7	4.7	6.7	10	12	29	20	15	8.8	6.2
24	6.2	5.7	3.5	4.6	7.1	10	12	28	21	15	8.1	6.2
25	6.2	5.6	3.3	4.6	7.2	9.6	12	28	20	13	9.7	6.2
26	6.2	5.5	3.2	4.6	7.3	9.5	13	29	19	12	8.8	6.2
27	6.2	5.4	3.2	4.6	7.5	9.1	13	26	19	11	10	6.2
28	6.2	5.2	3.1	4.6	7.4	9.2	13	25	18	11	8.5	6.2
29	6.2	5.0	3.2	4.5	---	8.9	12	29	21	9.6	7.3	6.2
30	6.2	4.8	3.2	4.7	---	10	13	33	26	9.2	6.8	6.5
31	6.2	---	3.0	4.8	---	9.8	---	32	---	9.3	6.5	---
TOTAL	183.1	182.9	153.8	128.9	174.1	305.7	341.4	707	757	504.1	256.6	186.1
MEAN	5.91	6.10	4.96	4.16	6.22	9.86	11.4	22.8	25.2	16.3	8.28	6.20
MAX	6.6	7.0	6.3	4.8	7.5	15	13	33	31	28	10	7.7
MIN	5.2	4.8	3.0	3.0	4.6	7.4	8.7	13	18	9.2	6.5	5.4
AC-FT	363	363	305	256	345	606	677	1400	1500	1000	509	369

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1995, BY WATER YEAR (WY)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	6.95	7.23	5.67	5.36	5.68	8.60	17.2	16.9	11.5	8.45	8.46	5.85			
MAX	10.6	11.2	9.13	8.78	11.2	17.3	57.1	58.1	25.2	16.3	13.2	8.97			
(WY)	1988	1988	1988	1986	1986	1986	1987	1987	1995	1995	1984	1987			
MIN	3.78	5.37	3.50	3.44	3.61	4.79	5.69	6.63	4.97	5.06	5.00	2.46			
(WY)	1982	1982	1983	1982	1982	1982	1982	1981	1981	1993	1993	1981			

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1981 - 1995

ANNUAL TOTAL	2753.3	3880.7		
ANNUAL MEAN	7.54	10.6	9.20	
HIGHEST ANNUAL MEAN			18.5	1987
LOWEST ANNUAL MEAN			5.31	1982
HIGHEST DAILY MEAN	20	May 11	33	May 30
LOWEST DAILY MEAN	3.0	Dec 31	3.0	Dec 31
ANNUAL SEVEN-DAY MINIMUM	3.2	Dec 25	3.1	Dec 31
INSTANTANEOUS PEAK FLOW			36	May 19
INSTANTANEOUS PEAK STAGE			4.60	May 19
ANNUAL RUNOFF (AC-FT)	5460	7700	6670	Jul 28 1984
10 PERCENT EXCEEDS	14	24	14	
50 PERCENT EXCEEDS	6.1	7.4	6.9	
90 PERCENT EXCEEDS	4.8	4.7	4.5	

a-From rating curve extended above 1950 ft³/s.
b-From floodmark.

07093775 BADGER CREEK, LOWER STATION, NEAR HOWARD, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1981 to current year (seasonal record only). Water temperature record March 1995 to current year.

PERIOD OF DAILY RECORD.--Suspended sediment discharge May 1981 to current year (seasonal record only). Daily water temperature record March 1995 to current year.

INSTRUMENTATION.--Pumping sediment sampler since May 1981. Water temperature probe with satellite telemetry since March 1995.

REMARKS.--Records for daily water temperature are fair. Daily data not published is either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum 27.4 C, Aug. 18, 1995; minimum, 0.5 degrees Celsius, many days.
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 18,200 mg/L, Apr. 18, 1987; minimum daily mean, 1 mg/L, Sept. 22, 1981, many days in water year 1986, Oct. 16, 1986, Oct. 19, 1989 and Oct. 3-15, 1989.
 SEDIMENT LOADS: Maximum daily mean, 31,500 tons/day (estimated), July 28, 1984; minimum daily mean, no load Sept. 12-30, 1981.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 27.4 C, Aug. 18; minimum 0.5 degrees Celsius, many days.
 SEDIMENT CONCENTRATIONS: Will be published in a subsequent report.
 SEDIMENT LOADS: Will be published in a subsequent report.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	15.0	.5	6.3	17.3	3.0	8.3
2	---	---	---	---	---	---	15.0	1.5	6.5	15.0	5.3	9.2
3	---	---	---	---	---	---	15.8	2.2	7.4	16.6	3.8	9.1
4	---	---	---	---	---	---	17.9	2.2	8.2	17.1	3.8	9.4
5	---	---	---	---	---	---	16.4	3.0	7.8	12.0	6.8	8.5
6	---	---	---	---	---	---	15.6	3.0	8.1	15.0	3.0	8.1
7	---	---	---	---	---	---	17.1	3.0	8.7	14.3	4.5	7.9
8	---	---	---	11.2	.5	5.0	17.9	3.0	8.7	15.0	4.5	8.8
9	---	---	---	13.4	.5	4.8	6.8	.5	3.1	16.4	4.5	9.5
10	---	---	---	14.9	.5	6.1	9.7	.5	3.7	15.8	4.5	9.2
11	---	---	---	11.2	2.2	5.8	14.3	.5	5.4	15.0	6.0	9.7
12	---	---	---	11.2	2.2	5.7	17.9	1.5	7.8	13.5	6.0	9.1
13	---	---	---	12.8	.5	5.6	17.1	3.0	9.2	16.6	3.8	9.4
14	---	---	---	14.9	1.5	6.5	15.0	3.8	8.0	19.4	5.3	11.1
15	---	---	---	15.0	2.2	7.1	9.0	3.0	5.5	20.9	6.0	12.2
16	---	---	---	11.2	3.8	6.7	15.0	2.2	7.4	16.6	6.8	10.7
17	---	---	---	12.8	3.8	6.8	7.4	1.5	4.3	8.3	3.0	6.3
18	---	---	---	15.6	2.2	7.5	13.5	.5	5.6	16.6	3.8	9.3
19	---	---	---	12.8	3.8	7.2	7.4	.5	3.7	17.3	5.3	10.8
20	---	---	---	14.3	1.5	6.6	14.3	.5	6.2	16.4	6.8	11.1
21	---	---	---	16.4	3.0	8.1	7.4	3.0	4.8	14.3	7.6	11.0
22	---	---	---	13.5	3.0	7.2	9.0	2.2	4.4	17.1	7.6	11.9
23	---	---	---	14.9	.5	6.3	9.0	2.2	4.4	15.8	7.6	10.4
24	---	---	---	13.5	3.0	6.5	16.6	.5	7.5	14.3	6.0	9.2
25	---	---	---	---	---	---	15.8	3.0	8.4	9.7	6.8	8.0
26	---	---	---	10.5	.5	4.5	16.6	4.5	9.1	14.3	5.3	9.3
27	---	---	---	13.5	.5	5.0	17.3	4.5	9.8	17.9	6.0	10.4
28	---	---	---	3.8	.5	1.7	15.0	5.3	9.5	15.8	5.3	9.6
29	---	---	---	4.5	.5	1.7	15.8	4.5	8.6	10.5	6.8	8.5
30	---	---	---	12.8	.5	4.1	15.0	6.0	9.2	14.3	6.8	9.6
31	---	---	---	13.5	.5	4.9	---	---	---	18.1	6.8	10.7
MONTH	---	---	---	---	---	---	17.9	.5	6.9	20.9	3.0	9.6

07093775 BADGER CREEK, LOWER STATION, NEAR HOWARD, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.4	6.0	12.2	18.1	9.1	13.0	26.2	11.4	17.5	26.6	11.0	17.7
2	16.6	7.6	11.7	21.7	9.1	14.3	26.2	11.4	17.2	24.3	12.4	17.0
3	20.9	8.3	13.3	16.6	9.1	12.0	25.5	10.6	16.8	26.5	10.9	17.2
4	17.3	8.3	12.4	19.4	7.6	12.3	24.7	12.0	16.9	25.8	11.7	17.6
5	20.9	7.6	13.5	23.2	7.6	14.4	25.5	10.6	17.2	25.7	10.9	17.1
6	20.2	8.3	13.1	24.7	9.1	15.9	23.2	10.6	16.5	24.2	13.7	16.5
7	17.9	6.8	11.8	24.0	9.9	16.1	23.2	11.2	16.3	16.8	13.1	14.6
8	17.3	8.3	12.2	21.7	9.9	15.4	26.2	12.8	18.4	22.6	11.5	15.7
9	16.6	6.8	11.6	25.5	9.9	16.8	21.7	13.5	16.5	21.8	13.0	15.6
10	18.7	7.6	12.2	26.2	11.2	17.5	26.2	11.4	18.0	22.6	10.7	15.4
11	21.7	8.3	14.0	25.5	11.2	17.3	26.2	15.0	19.1	20.9	9.1	14.1
12	23.2	8.3	14.7	24.7	11.2	17.2	24.7	13.5	18.0	22.5	8.4	14.2
13	22.4	9.1	14.7	23.2	11.2	16.1	26.2	13.5	18.7	23.2	9.1	14.8
14	18.7	9.1	13.9	20.2	10.6	14.6	19.6	14.3	16.6	22.5	10.6	15.0
15	16.6	11.2	13.4	24.7	9.9	16.1	26.9	11.3	18.1	22.5	8.4	14.6
16	15.6	9.1	12.5	23.2	12.1	16.9	20.8	12.0	16.8	23.2	9.1	14.8
17	15.6	9.9	12.4	22.4	12.8	16.2	26.8	14.1	18.8	21.7	9.1	14.6
18	20.9	7.6	13.1	20.4	12.1	16.0	27.4	13.2	18.8	20.4	9.9	13.7
19	21.7	7.6	13.7	23.2	11.4	16.4	22.9	15.5	18.0	20.9	8.4	13.2
20	22.4	8.3	14.6	22.4	10.6	16.1	25.1	13.1	18.0	21.7	8.4	13.0
21	21.7	8.3	14.2	24.7	9.9	15.6	25.7	12.4	17.7	10.6	6.1	8.3
22	22.4	8.3	13.8	24.0	9.9	15.9	25.7	13.8	18.0	18.1	4.5	9.5
23	18.7	8.3	12.3	21.7	9.9	15.1	25.6	14.4	18.5	19.4	4.5	10.5
24	21.7	8.3	13.8	24.7	8.3	15.5	25.5	13.6	17.6	13.5	8.4	10.2
25	21.7	8.3	14.0	24.7	9.1	15.9	26.3	12.2	17.0	19.4	5.3	10.7
26	20.9	8.3	13.7	24.7	9.1	16.2	26.2	12.9	17.6	18.7	6.8	11.3
27	24.7	8.3	14.7	26.2	9.1	16.6	24.6	12.0	17.1	20.2	7.6	12.7
28	20.9	9.1	14.1	26.2	10.5	17.5	24.6	11.2	16.9	13.5	8.4	10.9
29	14.3	10.6	12.0	26.2	12.0	17.8	26.7	12.5	18.1	15.8	8.4	10.6
30	16.6	9.9	11.8	24.7	12.0	17.2	23.0	11.1	16.2	17.3	6.8	10.8
31	---	---	---	22.4	12.0	16.0	26.6	11.0	17.3	---	---	---
MONTH	24.7	6.0	13.2	26.2	7.6	15.8	27.4	10.6	17.6	26.6	4.5	13.7

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WILL BE PUBLISHED IN A SUBSEQUENT REPORT

07094500 ARKANSAS RIVER AT PARKDALE, CO

LOCATION.--Lat 38°29'14", long 105°22'23", in NE¹/4NW¹/4 sec.18, T.18 S., R.71 W., Fremont County, Hydrologic Unit 11020001, on left bank at Parkdale, 100 ft upstream from Bumback Gulch, 300 ft upstream from bridge on U.S. Highway 50, and 0.9 mi upstream from Copper Gulch.

DRAINAGE AREA.--2,548 mi².

PERIOD OF RECORD.--October 1945 to September 1955, October 1964 to September 1994, April 1995 to current year (seasonal record only). Monthly discharge only for October 1945 to May 1946, published in WSP 1311. Water-quality data available November 1986 to September 1993.

REVISED RECORDS.--WSP 1117: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,720 ft above sea level, from topographic map. Prior to Oct. 1, 1964, at site 600 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, diversions for irrigation of about 35,000 acres upstream from station, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,830 ft³/s, June 18, 1995, gage height 8.82 ft; minimum daily, 199 ft³/s, Mar. 17, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 6,830 ft³/s at 1315 June 18, gage height, 8.82 ft; minimum daily, 527 ft³/s, Apr. 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	595	654	1600	4570	2960	1560
2	---	---	---	---	---	---	595	623	1290	4350	2790	1460
3	---	---	---	---	---	---	599	627	1320	4190	2460	1480
4	---	---	---	---	---	---	613	604	1440	3990	2200	1450
5	---	---	---	---	---	---	629	594	1640	3640	2090	1390
6	---	---	---	---	---	---	622	620	1930	3470	2040	1220
7	---	---	---	---	---	---	598	602	2300	3440	1990	1080
8	---	---	---	---	---	---	599	588	2370	3700	2040	1120
9	---	---	---	---	---	---	616	572	2350	4060	2020	1170
10	---	---	---	---	---	---	640	580	2150	4460	1770	1140
11	---	---	---	---	---	---	567	634	1960	4770	1650	1060
12	---	---	---	---	---	---	553	668	2040	5250	1740	1000
13	---	---	---	---	---	---	576	693	2780	5920	1860	952
14	---	---	---	---	---	---	633	662	3550	6020	1870	925
15	---	---	---	---	---	---	611	657	4060	5440	1860	930
16	---	---	---	---	---	---	556	742	4610	4940	1840	895
17	---	---	---	---	---	---	527	1000	4840	4800	1860	867
18	---	---	---	---	---	---	545	1170	6180	4720	1750	850
19	---	---	---	---	---	---	577	1070	5400	4510	1640	831
20	---	---	---	---	---	---	577	1250	4830	4210	1750	802
21	---	---	---	---	---	---	577	1560	4970	4000	1710	769
22	---	---	---	---	---	---	564	1650	5180	3910	1710	759
23	---	---	---	---	---	---	557	2070	6200	3750	1870	727
24	---	---	---	---	---	---	563	2250	5020	3590	1980	672
25	---	---	---	---	---	---	565	2280	4120	3230	2070	668
26	---	---	---	---	---	---	620	2230	3970	2960	2180	652
27	---	---	---	---	---	---	633	2180	4060	2830	2090	630
28	---	---	---	---	---	---	612	2060	4590	2930	1980	627
29	---	---	---	---	---	---	599	2080	4720	3010	1940	648
30	---	---	---	---	---	---	622	1640	4540	2870	1750	696
31	---	---	---	---	---	---	---	1770	---	2980	1610	---
TOTAL	---	---	---	---	---	---	17740	36380	106010	126510	61070	29030
MEAN	---	---	---	---	---	---	591	1174	3534	4081	1970	968
MAX	---	---	---	---	---	---	640	2280	6200	6020	2960	1560
MIN	---	---	---	---	---	---	527	572	1290	2830	1610	627
AC-FT	---	---	---	---	---	---	35190	72160	210300	250900	121100	57580

07095000 GRAPE CREEK NEAR WESTCLIFFE, CO

LOCATION.--Lat 38°11'10", long 105°28'59", in NW¹/4NW¹/4 sec.31, T.21 S., R.72 W., Custer County, Hydrologic Unit 11020001, on left bank 0.5 mi upstream from water line of De Weese Reservoir at elevation 7,665 ft, 0.5 mi downstream from Swift Creek, and 3.6 mi northwest of Westcliffe.

DRAINAGE AREA.--320 mi².

PERIOD OF RECORD.--October 1924 to September 1961, October 1962 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1241: 1950 (M). WSP 1311: 1927 (M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,690 ft above sea level, from topographic map. Prior to Mar. 17, 1939, at site 30 ft upstream at present datum.

REMARKS.--Estimated daily discharges: Nov. 13-21, Nov. 23 to Dec. 23, Dec. 25 to Feb. 21, 23-27, Mar. 1-2, 5-9, Mar. 26 to Apr. 2, and Apr. 10-12. Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 250 acres upstream from station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	20	17	12	30	22	38	48	86	758	80	45
2	11	19	19	12	28	26	44	52	79	630	71	41
3	11	20	20	13	26	28	66	63	96	457	64	49
4	13	23	21	13	25	31	137	50	124	396	58	39
5	16	21	21	14	25	27	146	50	132	306	55	34
6	28	22	20	14	26	25	131	56	144	260	51	33
7	18	21	20	14	26	22	98	49	167	274	48	41
8	25	21	19	15	24	21	59	46	189	311	43	54
9	24	22	17	15	25	29	42	41	185	314	43	62
10	19	21	16	16	23	50	40	41	161	300	43	72
11	18	21	15	16	24	61	43	57	142	290	36	55
12	17	21	14	16	25	51	52	56	133	262	37	46
13	17	20	13	15	25	35	176	58	161	264	41	43
14	17	19	13	15	25	34	214	49	230	250	42	39
15	20	18	14	16	24	33	79	42	291	234	46	38
16	23	19	13	16	20	33	54	50	368	256	37	37
17	26	17	12	17	19	34	48	102	451	236	33	33
18	26	18	12	16	20	32	47	244	771	217	31	33
19	25	19	13	16	22	31	50	260	688	207	33	34
20	23	19	12	17	24	29	97	132	546	191	42	34
21	21	19	12	19	25	29	135	132	501	178	35	36
22	21	19	13	21	26	27	116	135	459	163	57	36
23	21	18	14	20	26	26	122	140	429	143	107	33
24	21	18	14	21	26	30	127	162	390	129	99	32
25	21	19	15	22	27	29	107	228	330	110	114	37
26	21	20	15	23	26	30	87	170	280	102	104	34
27	21	20	14	24	26	34	63	128	290	90	87	31
28	20	19	14	26	25	34	52	101	327	83	72	30
29	20	19	13	26	---	34	46	107	409	72	66	33
30	21	18	13	27	---	36	48	131	639	74	56	37
31	21	---	12	29	---	37	---	106	---	78	52	---
TOTAL	618	590	470	556	693	1000	2564	3086	9198	7635	1783	1201
MEAN	19.9	19.7	15.2	17.9	24.7	32.3	85.5	99.5	307	246	57.5	40.0
MAX	28	23	21	29	30	61	214	260	771	758	114	72
MIN	11	17	12	12	19	21	38	41	79	72	31	30
AC-FT	1230	1170	932	1100	1370	1980	5090	6120	18240	15140	3540	2380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1995, BY WATER YEAR (WY)

	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955				
MEAN	17.4	19.1	15.0	13.5	16.6	32.4	52.7	58.9	89.5	50.3	36.4	19.6																							
MAX	79.6	54.5	28.2	23.5	32.3	105	332	383	374	356	177	95.6																							
(WY)	1971	1971	1926	1980	1992	1992	1942	1987	1957	1957	1968	1982																							
MIN	3.16	4.80	5.00	3.54	3.30	6.31	9.48	2.81	1.83	1.25	4.45	3.75																							
(WY)	1964	1964	1935	1959	1959	1959	1963	1963	1934	1946	1956	1956																							

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1925 - 1995
ANNUAL TOTAL	15624.9	29394	
ANNUAL MEAN	42.8	80.5	35.3
HIGHEST ANNUAL MEAN			109 1942
LOWEST ANNUAL MEAN			7.07 1963
HIGHEST DAILY MEAN	355 May 27	771 Jun 18	^a 1740 _d Apr 23 1942
LOWEST DAILY MEAN	^b 7.2 Jul 10	^c 11 Oct 2	^d .10 Jun 19 1936
ANNUAL SEVEN-DAY MINIMUM	7.8 Jul 7	12 Dec 16	.56 Jun 16 1936
INSTANTANEOUS PEAK FLOW		867 Jun 18	7460 Aug 2 1966
INSTANTANEOUS PEAK STAGE		3.55 Jun 18	8.45 Aug 2 1966
ANNUAL RUNOFF (AC-FT)	30990	58300	25570
10 PERCENT EXCEEDS	117	229	74
50 PERCENT EXCEEDS	21	34	17
90 PERCENT EXCEEDS	11	16	5.8

a-From rating curve extended above 320 ft³/s, on basis of slope-area measurement of peak flow.
b-Also occurred Jul 23.
c-Also occurred Oct 3.
d-Also occurred Jun 20-22, 1936.

07096000 ARKANSAS RIVER AT CANON CITY, CO

LOCATION.--Lat 38°26'02", long 105°15'24", in SE¹/₄SE¹/₄ sec.31, T.18 S., R.72 W., Fremont County, Hydrologic Unit 11020002, on right bank 800 ft upstream from Sand Creek, 0.7 mi downstream from Grape Creek, and 0.7 mi upstream from First Street Bridge in Canon City.

DRAINAGE AREA.--3,117 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1888 to current year. Monthly discharge only for some periods, published in WSP 1311. Published as "near Canyon" 1900-1906.

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1311: 1897-98.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,342.13 ft above sea level. See WSP 1711 or 1731 for history of changes prior to Oct. 1, 1957. Oct. 1, 1957 to Nov. 15, 1962, water-stage recorder at present site at datum 1.49 ft, higher.

REMARKS.--Estimated daily discharges: Dec. 25 to Mar. 31. Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 250 acres upstream from station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	287	386	663	575	460	415	540	716	1780	5320	2800	1410
2	285	402	641	575	470	420	537	681	1380	5010	2660	1310
3	278	421	590	570	470	420	572	681	1360	4660	2390	1340
4	278	425	583	570	470	425	602	811	1480	4340	2130	1290
5	292	407	589	560	470	415	668	735	1700	3850	2000	1230
6	338	388	595	540	470	430	674	583	2030	3610	1930	1050
7	364	397	604	540	470	420	650	560	2450	3590	1850	902
8	442	395	585	530	470	410	623	557	2540	3940	1950	949
9	399	397	548	530	470	415	610	517	2530	4360	1920	1010
10	380	390	520	530	460	475	640	487	2330	4710	1600	1040
11	372	385	537	530	440	485	576	567	2090	4980	1480	951
12	362	392	551	525	430	485	566	641	2160	5470	1610	886
13	359	411	552	520	420	480	603	572	2800	6080	1750	839
14	366	398	599	520	420	470	762	552	3450	6160	1760	810
15	398	379	618	520	420	470	730	594	3970	5720	1730	822
16	434	372	591	520	420	495	618	659	4620	5280	1740	792
17	451	505	608	515	430	520	567	1000	5060	5090	1760	769
18	540	505	620	510	430	530	576	1230	6580	4980	1620	751
19	518	502	610	525	425	560	607	1100	6300	4680	1510	734
20	482	536	595	550	425	550	595	1250	5500	4280	1630	705
21	397	540	602	540	425	540	646	1640	5560	4040	1580	679
22	397	556	586	530	425	580	665	1680	5730	3920	1580	667
23	411	535	572	530	425	555	646	2120	6540	3720	1790	634
24	393	532	580	530	420	550	653	2430	5580	3510	1930	576
25	395	549	600	540	415	550	640	2510	4520	3160	2020	570
26	423	549	595	540	415	550	695	2470	4260	2910	2120	559
27	400	539	580	525	415	550	766	2390	4340	2760	2030	529
28	386	532	585	520	415	550	709	2240	5010	2830	1910	521
29	392	543	595	500	---	550	661	2290	5190	2860	1860	543
30	386	620	580	485	---	550	683	1890	5150	2760	1620	596
31	396	---	590	470	---	540	---	1970	---	2830	1480	---
TOTAL	12001	13888	18264	16465	12295	15355	19080	38123	113990	131410	57740	25464
MEAN	387	463	589	531	439	495	636	1230	3800	4239	1863	849
MAX	540	620	663	575	470	580	766	2510	6580	6160	2800	1410
MIN	278	372	520	470	415	410	537	487	1360	2760	1480	521
AC-FT	23800	27550	36230	32660	24390	30460	37850	75620	226100	260700	114500	50510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1889 - 1995, BY WATER YEAR (WY)

	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	373	375	367	343	339	348	427	1107	2284	1486	858	454																																																																																															
MAX	1195	620	623	609	781	711	1120	2667	4286	5541	2134	1411																																																																																															
(WY)	1912	1924	1983	1983	1985	1989	1942	1984	1980	1957	1957	1909																																																																																															
MIN	167	180	204	195	217	176	108	243	481	230	217	188																																																																																															
(WY)	1978	1940	1940	1979	1978	1904	1940	1977	1902	1902	1977	1931																																																																																															

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1889 - 1995
ANNUAL TOTAL	253307	474075	
ANNUAL MEAN	694	1299	732
HIGHEST ANNUAL MEAN			1299
LOWEST ANNUAL MEAN			329
HIGHEST DAILY MEAN	3600	Jun 2	9480
LOWEST DAILY MEAN	206	Sep 10	69
ANNUAL SEVEN-DAY MINIMUM	219	Sep 8	87
INSTANTANEOUS PEAK FLOW			6900
INSTANTANEOUS PEAK STAGE		10.90	Jun 18
ANNUAL RUNOFF (AC-FT)	502400	940300	530600
10 PERCENT EXCEEDS	1520	3770	1720
50 PERCENT EXCEEDS	530	585	412
90 PERCENT EXCEEDS	298	409	240

a-Also occurred Oct 4.

b-Site and datum then in use, from rating curve extended above 5000 ft³/s.

c-From floodmark.

d-Maximum gage height, 10.90, Jun 18, 1995.

07096000 ARKANSAS RIVER AT CANON CITY, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1993 to current year.

WATER TEMPERATURE: October 1993 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1993.

REMARKS.--Daily data that are not published are either missing or of unacceptable quality. Records for water temperature and specific conductance are good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 348 microsiemens, Oct. 4, 1994; minimum, 129 microsiemens, July 13, 1995.

WATER TEMPERATURE: Maximum, 22.5°C, Aug. 27, 1994; minimum, 0.0°C, Jan. 24, 1995.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 348 microsiemens, Oct. 4; minimum, 129 microsiemens, July 13.

WATER TEMPERATURE: Maximum, 20.0°C, Aug. 19, and 23; minimum, 0.0°C, Jan. 24.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	330	325	328	294	290	292	237	229	232	217	213	215
2	330	328	329	293	291	292	230	218	223	221	214	217
3	333	329	330	291	287	289	236	224	227	229	221	225
4	348	333	337	288	281	283	240	233	235	---	229	---
5	346	331	339	286	282	284	241	231	235	---	---	---
6	342	330	335	290	285	287	239	232	235	---	---	---
7	347	332	338	292	289	291	236	232	234	---	---	---
8	---	---	---	290	289	289	233	230	232	---	---	---
9	---	---	---	291	289	290	237	232	235	---	---	---
10	---	---	---	290	287	288	248	237	242	---	---	---
11	---	---	---	290	287	288	254	248	252	---	221	---
12	---	299	---	293	289	291	250	246	249	224	218	222
13	304	299	303	293	290	292	248	245	247	222	217	220
14	310	304	306	292	289	291	246	239	243	225	216	220
15	308	302	305	290	288	289	239	230	235	230	221	223
16	305	301	303	293	287	288	230	229	230	225	219	222
17	305	294	299	293	274	287	230	226	229	220	216	218
18	---	301	---	274	255	260	229	225	227	227	216	221
19	---	---	---	265	253	256	226	218	224	234	224	229
20	---	---	---	258	251	254	225	218	222	231	214	226
21	---	---	---	253	251	252	229	224	226	224	214	220
22	---	---	---	257	252	254	227	223	226	229	216	224
23	---	---	---	255	252	253	224	220	223	235	227	229
24	---	287	---	258	251	253	222	214	218	232	226	229
25	291	288	289	258	254	255	220	214	216	228	218	225
26	294	290	293	256	250	253	216	214	215	221	215	217
27	294	291	292	254	249	252	216	213	215	218	215	217
28	295	292	294	258	253	255	214	213	213	226	218	223
29	295	291	293	267	258	264	217	211	214	243	224	229
30	292	291	292	258	237	247	217	215	216	261	243	253
31	294	291	293	---	---	---	216	213	215	267	234	250
MONTH	---	---	---	294	237	274	254	211	229	---	---	---

07096000 ARKANSAS RIVER AT CANON CITY, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	238	234	236	275	266	269	236	228	232	265	259	262
2	237	231	234	278	261	271	239	231	236	266	261	263
3	245	235	240	266	256	261	240	233	237	287	263	268
4	---	237	---	271	265	268	249	236	243	316	287	309
5	---	---	---	273	267	270	268	243	260	318	264	302
6	---	---	---	272	265	267	281	265	275	264	255	259
7	---	---	---	266	263	264	285	275	280	258	253	255
8	---	---	---	267	259	262	281	270	276	258	254	255
9	230	224	227	270	261	265	272	255	265	256	252	254
10	230	222	225	274	260	267	256	249	252	260	251	255
11	231	220	224	276	266	271	261	250	257	261	242	254
12	249	231	240	278	270	274	270	261	265	252	246	248
13	255	249	252	295	278	285	276	266	272	250	231	236
14	260	232	246	302	294	298	311	274	296	236	229	232
15	242	218	233	303	297	300	296	279	289	247	232	239
16	246	236	241	298	285	288	283	270	278	243	236	238
17	253	241	246	288	281	285	275	256	262	249	229	241
18	257	240	246	284	270	276	257	246	254	255	241	249
19	269	247	253	270	261	265	254	246	250	275	255	265
20	265	251	256	263	255	260	253	249	251	295	259	279
21	266	252	257	260	254	257	281	251	271	259	228	238
22	266	255	259	255	250	252	291	281	286	235	224	229
23	271	258	263	252	243	248	289	282	285	227	206	215
24	275	265	268	249	243	246	289	281	285	213	203	208
25	280	274	277	247	234	241	294	284	288	219	205	213
26	285	279	282	236	230	233	291	280	284	222	211	217
27	284	280	281	233	230	232	295	278	285	222	206	213
28	281	275	278	233	229	231	279	267	275	207	202	205
29	---	---	---	229	222	226	288	264	270	235	202	211
30	---	---	---	229	224	227	269	265	267	277	233	260
31	---	---	---	233	226	229	---	---	---	286	232	261
MONTH	---	---	---	303	222	261	311	228	268	318	202	246
	JUNE			JULY			AUGUST			SEPTEMBER		
1	246	229	236	199	185	191	145	140	143	198	190	194
2	271	245	260	200	195	197	145	141	143	202	192	197
3	278	263	272	197	188	192	153	142	148	200	193	196
4	266	254	262	193	189	191	162	150	156	199	192	194
5	254	242	248	196	190	193	165	159	162	198	192	194
6	242	221	233	194	185	190	167	162	164	207	193	199
7	222	207	214	189	178	184	167	162	165	230	207	221
8	224	207	214	180	168	175	165	155	161	241	229	237
9	228	221	224	172	155	163	159	154	157	237	228	233
10	231	221	224	158	148	153	176	156	166	243	227	236
11	230	225	227	150	143	146	180	175	177	241	238	240
12	226	209	220	144	133	139	180	166	174	241	239	240
13	209	183	196	136	129	132	166	160	162	243	241	242
14	185	175	180	133	130	131	164	160	162	246	241	243
15	179	169	174	136	130	134	171	160	165	246	243	244
16	176	171	173	138	134	136	172	161	168	245	241	244
17	182	173	175	141	133	138	164	160	162	244	243	244
18	190	180	185	142	135	140	168	160	164	246	243	244
19	192	183	187	152	140	144	185	167	174	253	243	245
20	186	177	181	154	144	148	183	173	178	258	245	249
21	181	172	176	155	145	148	185	176	181	253	242	245
22	174	163	168	155	144	147	190	179	183	260	253	257
23	166	151	158	151	145	148	205	172	181	266	260	262
24	173	153	162	153	147	150	205	169	178	267	263	265
25	174	170	172	154	147	151	187	170	177	270	267	268
26	173	168	171	158	150	154	188	172	180	270	265	268
27	171	163	167	156	151	153	187	173	179	273	268	270
28	164	152	157	152	144	149	184	174	179	280	269	275
29	164	154	159	145	140	143	185	176	181	275	262	265
30	187	163	177	148	139	143	192	181	186	264	259	262
31	---	---	---	143	139	142	195	188	192	---	---	---
MONTH	278	151	198	200	129	156	205	140	169	280	190	239

07096000 ARKANSAS RIVER AT CANON CITY, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.1	13.8	14.3	7.1	5.9	6.6	1.3	.1	.7	.3	.1	.2
2	14.5	12.6	13.6	7.3	6.0	6.8	2.0	1.2	1.6	.2	.2	.2
3	13.9	11.7	12.9	7.1	5.1	6.3	2.1	1.2	1.7	.2	.1	.2
4	13.8	12.6	13.3	6.1	4.7	5.4	3.0	2.0	2.5	.2	.1	.2
5	14.7	13.5	14.0	6.7	4.8	5.9	3.1	2.0	2.6	.2	.1	.2
6	13.8	11.9	12.7	6.9	5.6	6.4	3.7	2.8	3.2	.4	.1	.2
7	12.3	10.6	11.4	8.7	6.6	7.7	3.6	2.6	3.1	.3	.1	.2
8	12.6	10.9	11.7	8.3	6.5	7.3	3.1	.7	1.8	.7	.2	.4
9	12.4	10.6	11.6	6.9	5.3	6.3	.7	.1	.2	2.3	.5	1.3
10	12.6	10.7	11.7	6.5	5.2	5.8	.2	.1	.1	3.0	2.2	2.6
11	12.8	11.1	12.0	6.5	5.1	5.8	.1	.1	.1	3.6	2.8	3.1
12	12.5	11.2	11.8	7.4	6.1	6.8	.1	.1	.1	3.0	2.2	2.5
13	12.0	9.9	10.9	6.8	4.4	5.3	.1	.1	.1	2.4	1.3	1.7
14	11.1	9.3	10.2	4.4	3.7	4.1	.3	.1	.1	1.9	.8	1.4
15	10.8	9.3	10.0	3.8	2.2	2.8	.1	.1	.1	3.5	1.8	2.6
16	10.3	8.5	9.7	3.2	1.6	2.5	.1	.1	.1	3.5	2.0	2.9
17	10.2	8.6	9.5	4.0	2.4	3.5	.4	.1	.1	2.0	.5	1.1
18	9.1	6.8	8.2	2.4	1.4	1.7	.5	.1	.2	.6	.1	.2
19	10.0	7.9	9.1	1.8	.7	1.4	.6	.1	.2	.2	.1	.1
20	9.6	7.4	8.7	2.8	1.5	2.1	.2	.1	.1	.2	.1	.1
21	9.4	7.8	8.7	3.1	2.3	2.7	.4	.1	.1	.4	.1	.2
22	9.6	8.0	8.8	3.1	2.5	2.9	.5	.1	.2	.2	.1	.2
23	9.6	8.1	9.0	3.0	1.2	1.7	.7	.1	.4	.2	.1	.2
24	9.3	7.7	8.5	1.5	.5	1.0	2.0	.6	1.3	.2	.0	.1
25	8.2	6.2	7.3	1.8	.6	1.2	2.2	1.7	1.9	.2	.1	.1
26	8.6	6.4	7.5	2.4	1.3	2.0	2.1	1.7	1.9	1.0	.1	.5
27	8.5	6.8	7.9	2.1	.1	.7	2.1	.7	1.2	2.9	1.0	2.3
28	9.5	7.6	8.6	.1	.1	.1	.9	.2	.5	2.9	2.2	2.6
29	8.9	7.3	7.9	.1	.1	.1	1.0	.1	.4	2.5	1.6	2.1
30	7.3	6.0	6.6	.4	.1	.2	1.7	.8	1.2	2.1	.7	1.3
31	7.1	5.2	6.3	---	---	---	1.7	.3	1.0	2.7	1.1	1.9
MONTH	15.1	5.2	10.1	8.7	.1	3.8	3.7	.1	.9	3.6	.0	1.1
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.1	2.7	3.4	2.9	.1	1.5	9.3	4.8	7.1	12.3	9.0	10.7
2	4.8	3.5	4.2	.8	.1	.2	9.0	6.0	7.5	12.5	9.2	10.8
3	4.5	3.4	3.9	4.3	.1	2.1	11.0	6.7	8.7	11.8	8.6	10.4
4	4.1	2.7	3.5	7.2	4.3	5.6	11.3	7.3	9.4	14.2	10.1	12.0
5	4.2	3.1	3.8	6.3	4.6	5.6	10.8	8.2	9.5	12.7	10.2	11.5
6	4.3	2.9	3.8	6.1	3.3	4.9	11.4	7.4	9.5	12.8	9.2	11.1
7	4.2	3.4	3.8	5.0	1.5	3.3	12.4	7.5	10.2	11.4	9.6	10.4
8	3.6	2.5	3.2	4.5	2.0	3.3	13.0	8.8	11.0	11.6	9.2	10.2
9	4.0	2.5	3.4	6.9	2.7	4.8	11.6	4.1	7.7	13.9	9.2	11.3
10	3.8	2.5	3.1	8.8	5.0	6.9	5.4	2.9	4.2	14.9	10.7	12.7
11	2.6	.1	.9	8.3	6.8	7.8	7.5	3.2	5.2	13.6	11.4	12.6
12	.2	.1	.1	8.5	6.4	7.5	10.6	5.6	8.0	13.5	10.8	12.0
13	.2	.1	.1	9.3	6.1	7.6	11.8	8.4	10.1	13.3	9.1	11.3
14	.6	.1	.2	9.8	6.6	8.2	11.7	9.0	10.4	14.4	10.5	12.4
15	3.0	.1	1.4	10.1	6.7	8.4	9.8	7.4	8.2	16.9	11.7	14.3
16	3.8	1.9	2.8	10.2	7.6	8.9	10.6	6.3	8.5	16.2	13.3	14.6
17	3.9	1.7	2.7	10.8	8.7	9.4	9.1	6.2	7.1	13.3	8.4	10.6
18	3.9	2.1	3.0	10.0	6.9	8.7	9.0	4.8	6.9	12.8	7.2	10.0
19	5.0	2.7	4.0	11.4	8.5	9.7	6.8	5.0	5.5	14.4	10.7	12.6
20	6.5	4.1	5.3	10.0	7.3	8.8	9.1	4.1	6.7	15.5	11.7	13.6
21	7.0	5.0	6.1	10.9	7.8	9.3	8.5	5.9	6.8	14.0	11.9	13.3
22	7.1	5.2	6.2	11.2	8.8	9.8	6.1	4.8	5.6	14.2	11.1	12.8
23	7.3	5.0	6.1	9.8	7.2	8.6	8.6	4.9	6.8	13.7	10.3	11.2
24	7.7	4.9	6.3	10.8	7.9	9.1	11.2	6.2	8.5	10.4	8.7	9.4
25	8.1	5.3	6.7	8.4	6.1	7.0	12.2	7.9	10.1	9.9	8.9	9.2
26	8.3	6.0	7.0	6.1	4.1	4.7	11.0	8.7	9.9	12.1	8.7	10.4
27	8.0	5.8	6.8	7.1	3.8	5.5	12.5	8.5	10.5	12.4	9.2	10.7
28	6.8	2.9	4.6	6.1	3.0	4.2	12.8	9.9	11.4	11.7	9.8	10.8
29	---	---	---	4.2	1.4	3.0	11.8	10.5	11.1	11.0	9.7	10.2
30	---	---	---	5.8	2.8	4.3	13.0	9.9	11.3	12.4	9.1	10.6
31	---	---	---	7.5	3.4	5.5	---	---	---	13.6	10.3	11.9
MONTH	8.3	.1	3.8	11.4	.1	6.3	13.0	2.9	8.4	16.9	7.2	11.5

07096250 FOURMILE CREEK BELOW CRIPPLE CREEK NEAR VICTOR, CO

LOCATION.--Lat 38°39'52", long 105°13'37", in SW¹/4SE¹/4 sec.9, T.16 S., R.70 W., Teller County, Hydrologic Unit 11020002, on left bank 500 ft from Teller County Route 88 and 0.2 mi downstream from Cripple Creek.

DRAINAGE AREA.--272 mi².

PERIOD OF RECORD.--September 1992 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,870 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 9 to Feb. 4. Records good except those for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	78	11	5.0	4.0	2.5	12	52	176	99	48	34
2	13	80	6.9	6.0	3.9	4.6	14	55	166	101	49	41
3	11	79	7.9	6.2	3.9	5.6	14	55	180	94	46	38
4	11	75	6.5	6.5	3.9	4.9	14	54	172	89	46	32
5	12	72	5.8	6.5	3.9	4.6	16	57	176	86	46	29
6	13	58	5.1	7.0	3.8	4.7	15	59	157	81	41	27
7	12	17	4.7	7.5	3.3	4.2	15	56	146	80	39	32
8	13	14	5.2	8.0	3.3	4.6	17	56	151	81	39	38
9	13	12	6.2	7.5	3.2	5.6	19	54	155	81	38	48
10	12	10	6.2	6.5	3.2	7.3	18	51	145	81	40	47
11	12	9.6	6.5	5.0	2.9	8.2	19	51	137	78	39	42
12	11	9.3	7.0	5.5	4.2	7.7	20	56	130	72	40	36
13	11	8.6	7.0	5.0	4.1	6.3	20	57	117	71	41	33
14	12	7.4	7.0	5.0	3.8	6.3	21	55	108	69	40	30
15	13	6.3	7.5	5.5	3.3	6.5	18	53	108	67	40	28
16	13	8.1	7.5	6.0	4.0	7.7	18	55	103	74	36	27
17	15	7.3	8.0	5.0	3.7	11	20	86	139	79	28	25
18	13	4.8	8.5	5.0	3.7	12	20	93	146	86	25	24
19	12	6.8	8.5	5.5	3.7	11	22	95	103	88	38	25
20	12	6.3	8.0	6.0	3.9	8.7	23	87	90	90	33	25
21	12	7.0	7.0	6.0	4.1	7.5	24	94	94	84	31	26
22	12	6.7	6.5	6.0	3.9	7.5	24	111	107	82	33	26
23	12	5.7	6.0	5.5	4.1	7.4	23	127	110	75	31	25
24	11	7.7	5.5	6.0	4.0	7.8	27	142	114	70	30	25
25	11	9.1	5.0	7.0	4.1	7.8	30	191	124	66	31	25
26	11	9.0	4.5	7.0	4.2	7.9	38	179	106	64	37	24
27	26	8.8	4.0	6.5	4.0	7.9	45	176	92	59	36	23
28	78	7.7	4.0	6.2	3.9	8.1	48	161	95	56	37	23
29	81	8.5	3.5	7.0	---	8.0	52	157	96	54	42	24
30	76	13	3.5	6.0	---	8.2	57	176	94	46	35	24
31	77	---	5.0	4.0	---	8.9	---	195	---	47	34	---
TOTAL	654	652.7	195.5	187.4	106.0	221.0	723	2946	3837	2350	1169	906
MEAN	21.1	21.8	6.31	6.05	3.79	7.13	24.1	95.0	128	75.8	37.7	30.2
MAX	81	80	11	8.0	4.2	12	57	195	180	101	49	48
MIN	11	4.8	3.5	4.0	2.9	2.5	12	51	90	46	25	23
AC-FT	1300	1290	388	372	210	438	1430	5840	7610	4660	2320	1800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995, BY WATER YEAR (WY)

	1993	1994	1995	1993	1994	1995	1993	1994	1995	1993	1994	1995
MEAN	14.3	12.3	6.25	6.51	5.84	7.75	26.7	91.2	76.1	34.0	22.9	17.1
MAX	21.1	21.8	6.79	7.26	7.62	8.91	40.2	149	128	75.8	37.7	30.2
(WY)	1995	1995	1993	1993	1993	1993	1994	1994	1995	1995	1995	1995
MIN	6.65	7.57	5.66	6.05	3.79	7.13	15.7	29.0	31.5	11.2	4.95	5.19
(WY)	1994	1994	1994	1995	1995	1995	1993	1993	1993	1993	1993	1993

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1993 - 1995	
ANNUAL TOTAL	11738.2		13947.6			
ANNUAL MEAN	32.2		38.2		26.8	
HIGHEST ANNUAL MEAN					38.2	
LOWEST ANNUAL MEAN					12.6	
HIGHEST DAILY MEAN	373	May 11	195	May 31	373	May 11 1994
LOWEST DAILY MEAN	a 3.5	Dec 29	2.5	Mar 1	2.5	Mar 1 1995
ANNUAL SEVEN-DAY MINIMUM	4.2	Dec 25	3.4	Feb 5	3.4	Feb 5 1995
INSTANTANEOUS PEAK FLOW			647	Jun 17	b 647	Jun 17 1995
INSTANTANEOUS PEAK STAGE			4.62	Jun 17	4.62	Jun 17 1995
ANNUAL RUNOFF (AC-FT)	23280		27670		19450	
10 PERCENT EXCEEDS	78		97		72	
50 PERCENT EXCEEDS	14		19		10	
90 PERCENT EXCEEDS	6.0		4.6		5.4	

a-Also occurred Dec. 30, 1994.

b-From rating curve extended above 127 ft³/s.

07097000 ARKANSAS RIVER AT PORTLAND, CO

LOCATION.--Lat 38°23'18", long 105°00'56", in NE¹/4NE¹/4 sec.20, T.19 S., R.68 W., Fremont County, Hydrologic Unit 11020002, on right bank at bridge on State Highway 120 at Portland and 1 mi downstream from Hardscrabble Creek.

DRAINAGE AREA.--4,024 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1939 to September 1952, October 1974 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,021.59 ft above sea level. Prior to Oct. 1, 1974, at site 400 ft downstream at datum 0.03 ft, lower.

REMARKS.--Estimated daily discharges: Jan. 2-6, Feb. 12-14, and July 8-19. Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, diversions upstream from station for irrigation of about 60,000 acres and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	289	533	617	519	400	372	637	847	2410	5560	2940	1550
2	293	544	608	490	400	369	566	804	1880	5340	2800	1410
3	282	570	570	480	404	388	517	813	1810	4970	2480	1450
4	312	579	551	485	391	396	535	995	1850	4630	2210	1400
5	314	552	559	486	393	389	600	963	2040	4090	2030	1320
6	347	528	565	485	399	428	642	805	2290	3850	1960	1160
7	387	500	585	480	398	410	606	750	2690	3830	1910	990
8	479	480	555	478	395	439	572	714	2870	4160	1970	1050
9	454	481	525	486	398	465	572	662	3060	4590	1950	1170
10	423	476	480	486	397	391	631	632	2780	4890	1750	1260
11	406	463	503	483	394	470	529	687	2450	5180	1570	1170
12	384	478	529	477	345	499	510	762	2430	5540	1650	1020
13	400	496	513	469	340	484	527	732	3010	6230	1840	974
14	409	477	534	466	360	450	680	680	3700	6340	1870	925
15	443	455	554	480	386	446	703	669	4200	6100	1880	923
16	488	425	553	476	352	455	580	733	4990	5480	1850	884
17	517	541	564	451	337	479	522	2080	5280	5280	1880	850
18	591	550	564	412	333	504	517	1770	6830	5130	1750	831
19	580	529	566	421	346	489	568	1610	6710	5060	1720	838
20	556	563	547	463	363	524	560	1750	5590	4810	1740	819
21	466	549	541	474	372	474	650	2160	5640	4490	1710	817
22	455	550	555	453	374	497	779	2140	5910	4250	1710	796
23	490	536	555	421	377	524	694	2570	6590	3940	1880	759
24	474	512	561	441	383	479	639	2910	6100	3660	2180	695
25	465	536	569	472	371	478	650	3170	4720	3350	2270	679
26	477	539	559	478	359	528	732	3130	4390	3080	2410	645
27	454	529	546	461	363	606	806	3050	4320	2940	2320	620
28	479	481	540	422	367	638	789	2710	4840	2970	2140	614
29	512	485	541	414	---	647	774	2750	5220	3040	2100	631
30	523	573	553	386	---	634	792	2990	5290	2910	1870	682
31	536	---	553	400	---	632	---	2690	---	2950	1640	---
TOTAL	13685	15510	17115	14295	10497	14984	18879	49728	121890	138640	61980	28932
MEAN	441	517	552	461	375	483	629	1604	4063	4472	1999	964
MAX	591	579	617	519	404	647	806	3170	6830	6340	2940	1550
MIN	282	425	480	386	333	369	510	632	1810	2910	1570	614
AC-FT	27140	30760	33950	28350	20820	29720	37450	98640	241800	275000	122900	57390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

MEAN	389	413	374	349	342	359	514	1178	2507	1630	954	459
MAX	1083	748	693	626	774	683	1869	2680	4429	4472	2380	1008
(WY)	1985	1985	1983	1983	1985	1989	1942	1984	1980	1995	1984	1982
MIN	136	191	212	199	162	147	135	245	581	242	201	172
(WY)	1978	1978	1978	1979	1978	1978	1981	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1939 - 1995	
ANNUAL TOTAL	273767		506135			
ANNUAL MEAN	750		1387		797	
HIGHEST ANNUAL MEAN					1387	
LOWEST ANNUAL MEAN					315	
HIGHEST DAILY MEAN	3850		6830		7460	
LOWEST DAILY MEAN	282		282		66	
ANNUAL SEVEN-DAY MINIMUM	289		318		76	
INSTANTANEOUS PEAK FLOW			7470		a 21100	
INSTANTANEOUS PEAK STAGE			8.51		12.18	
ANNUAL RUNOFF (AC-FT)	543000		1004000		577200	
10 PERCENT EXCEEDS	1900		4000		1900	
50 PERCENT EXCEEDS	513		573		456	
90 PERCENT EXCEEDS	350		397		220	

a-From rating curve extended above 5300 ft³/s.

07097000 ARKANSAS RIVER AT PORTLAND, CO--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1977 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1979 to current year.
WATER TEMPERATURE: October 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1982.

REMARKS.--Water temperature records good except Jan 1 to Mar 31, which are fair, and July 1-28 which are poor. Specific conductance records good except Feb. 11-14, Mar. 1-3, May 17 to June 1, July 4-15 which are fair, and Jan. 29, Mar. 11, May 23-24, and Sept. 22 which are poor. Specific conductance data may not be representative of the cross section at the site during flash floods.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily observed, 1,380 microsiemens, Sept. 30, 1981; minimum, 163 microsiemens, July 17, 1995.
WATER TEMPERATURES: Maximum, 26.0°C, July 27, 1987; minimum, 0.0°C, many days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 835 microsiemens, Oct 4; minimum, 163 microsiemens, July 17.
WATER TEMPERATURES: Maximum, 22.4°C, Sept 4; minimum, 0.0°C, many days during the winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLIFORM, FECEAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECEAL, KF AGAR (COLS. PER 100 ML)
DEC 21...	1115	535	355	7.6	1.5	2.9	12.1	K11	K24
MAR 31...	1430	636	351	8.6	10.0	1.9	9.9	K10	K7
APR 27...	1230	833	397	8.4	12.0	17	8.9	88	210
JUN 29...	1615	4970	186	8.1	13.0	54	--	200	390
AUG 15...	1245	1860	227	8.4	19.0	4.8	7.8	200	110
SEP 08...	1315	1060	352	8.5	17.0	6.8	8.5	--	140

DATE	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE, WATER DIS IT FIELD (MG/L AS HCO3)	CARBONATE, WATER DIS IT FIELD (MG/L AS CO3)	
DEC 21...	150	41	11	15	18	0.5	1.6	113	0
MAR 31...	140	38	11	16	20	0.6	1.6	101	0
APR 27...	170	45	13	19	20	0.6	2.0	129	0
JUN 29...	77	22	5.3	6.2	15	0.3	1.5	--	--
AUG 15...	94	27	6.3	9.1	17	0.4	1.3	71	4
SEP 08...	140	39	10	15	19	0.6	2.4	115	3

DATE	ALKALINITY, WAT DIS TOT IT FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)
DEC 21...	92	70	5.9	0.4	9.8	220	212	318
MAR 31...	83	68	6.3	0.4	9.1	219	201	376
APR 27...	106	72	6.8	0.5	11	226	234	508
JUN 29...	--	26	2.1	0.3	8.4	114	111	1530
AUG 15...	65	36	3.2	0.4	8.1	137	131	688
SEP 08...	100	62	5.8	0.5	11	219	207	627

A-Field dissolved bicarbonate, determined by incremental titration method.
B-Field dissolved carbonate, determined by incremental titration method.
C-Field total dissolved alkalinity, determined by incremental titration method.
K-Based on non-ideal colony counts.

07097000 ARKANSAS RIVER AT PORTLAND, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
DEC 21...	<0.01	0.19	0.02	<0.2	1.1	0.02	<0.01
MAR 31...	<0.01	0.19	0.02	0.4	0.04	0.02	<0.01
APR 27...	<0.01	0.17	<0.015	0.3	0.04	0.02	0.02
JUN 29...	<0.01	0.12	<0.015	0.3	0.08	0.02	0.03
AUG 15...	<0.01	0.15	0.04	<0.2	0.01	<0.01	0.01
SEP 08...	<0.01	0.23	<0.015	<0.2	0.06	0.02	0.03

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
DEC 21...	<10	40	<3	20	15	17	20	<1	1	<1	390	<6
MAR 31...	--	41	<3	15	9	18	20	<1	1	<1	330	<6
APR 27...	20	54	<3	33	10	17	<10	<1	1	<1	390	<6
JUN 29...	100	37	<3	96	4	23	<10	<1	<1	<1	170	<6
AUG 15...	40	35	<3	41	11	13	<10	<1	<1	<1	240	<6
SEP 08...	30	46	<3	21	10	16	10	1	1	<1	360	<6

CROSS-SECTION DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WILL BE PUBLISHED IN A SUBSEQUENT REPORT

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WILL BE PUBLISHED IN A SUBSEQUENT REPORT

07097000 ARKANSAS RIVER AT PORTLAND, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	595	543	564	456	429	442	370	351	359	378	301	339
2	565	535	549	457	436	446	369	349	356	385	341	362
3	569	540	551	448	433	438	396	356	371	384	324	358
4	835	524	586	438	421	432	386	363	379	455	315	337
5	649	547	579	436	415	430	388	369	380	396	317	339
6	548	492	526	450	429	436	386	371	379	383	354	369
7	527	483	506	450	432	442	391	357	376	433	349	372
8	506	453	477	451	442	447	389	374	380	383	361	372
9	479	455	467	450	428	441	419	329	375	379	366	372
10	487	458	475	450	433	443	459	386	405	383	365	372
11	483	467	473	464	433	448	482	381	401	385	365	376
12	491	465	477	466	439	448	480	377	392	385	367	374
13	489	471	479	458	423	446	402	363	380	375	363	369
14	506	463	488	466	439	449	377	359	370	378	360	369
15	503	464	483	463	438	448	372	348	357	378	363	370
16	472	454	462	478	457	465	399	340	358	379	363	371
17	492	463	480	470	418	437	359	342	349	396	350	375
18	481	426	444	422	396	406	367	341	348	417	329	377
19	447	430	437	404	386	395	353	340	347	411	364	384
20	449	434	443	405	383	398	372	341	353	402	355	375
21	489	446	456	402	388	394	358	345	352	378	354	366
22	473	447	459	399	379	388	369	339	348	393	351	369
23	458	434	447	399	381	389	384	341	352	439	347	377
24	470	434	447	400	379	392	354	343	349	430	345	377
25	455	437	447	403	371	390	359	341	348	405	344	370
26	452	421	442	399	379	388	356	342	347	---	---	---
27	454	435	442	406	376	390	380	345	352	---	---	---
28	476	434	452	411	369	391	372	340	350	---	---	---
29	456	432	445	422	387	401	363	338	351	400	---	---
30	461	435	445	395	368	375	355	342	351	428	391	404
31	458	436	446	---	---	---	353	339	349	421	396	405
MONTH	835	421	480	478	368	421	482	329	363	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	411	384	405	455	412	428	371	354	362	427	363	382
2	407	385	394	469	415	431	390	355	370	391	360	377
3	400	383	392	457	376	420	386	369	377	408	373	386
4	393	378	387	431	412	424	487	371	381	402	372	388
5	397	373	390	431	393	417	374	359	366	412	392	398
6	401	386	393	438	418	426	388	355	369	405	385	389
7	396	366	386	445	411	427	---	---	---	400	381	389
8	399	383	391	442	401	421	395	367	383	409	383	393
9	394	378	387	444	406	420	394	379	387	453	375	396
10	522	375	396	453	421	435	407	367	379	410	392	401
11	486	375	407	438	399	413	431	391	406	414	394	403
12	457	379	410	---	---	---	449	423	434	394	365	381
13	461	389	422	---	---	---	446	404	422	420	375	383
14	459	394	428	---	---	---	412	377	393	388	377	383
15	433	392	418	405	398	401	394	363	383	390	375	384
16	442	403	421	471	389	403	398	381	389	390	367	374
17	437	418	428	463	387	417	431	390	405	783	354	587
18	434	418	427	416	384	395	428	394	405	562	444	473
19	423	414	419	389	369	378	470	401	439	454	414	431
20	423	405	413	381	351	369	462	414	432	440	383	419
21	418	401	408	---	---	---	606	434	497	383	338	353
22	428	396	411	393	359	374	592	506	537	346	328	338
23	416	401	406	455	357	371	540	477	497	333	298	312
24	412	397	405	394	360	373	483	438	459	312	291	302
25	411	394	403	---	---	---	445	429	436	316	289	298
26	408	391	399	382	346	364	478	420	445	340	301	309
27	412	397	402	412	337	354	431	401	412	455	306	339
28	430	403	422	363	343	353	422	385	396	311	303	307
29	---	---	---	364	334	354	392	372	383	395	306	322
30	---	---	---	---	---	---	379	365	374	393	354	362
31	---	---	---	372	360	365	---	---	---	366	305	339
MONTH	522	366	406	---	---	---	---	---	---	783	289	377

07097000 ARKANSAS RIVER AT PORTLAND, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	319	287	301	257	204	223	189	179	186	269	229	262
2	372	319	340	228	214	221	192	184	189	279	268	273
3	371	346	362	221	206	215	206	187	199	281	268	273
4	351	338	346	219	---	202	222	206	214	274	268	271
5	338	312	325	222	---	203	231	221	225	277	271	274
6	319	282	302	224	---	204	232	222	227	322	277	295
7	283	264	273	220	---	197	233	224	228	367	322	337
8	275	264	269	208	---	184	230	217	223	371	356	363
9	285	271	278	194	---	---	222	217	219	396	348	364
10	292	273	282	184	---	---	242	217	232	382	296	347
11	300	287	294	178	---	---	250	238	246	---	---	---
12	299	276	290	191	---	---	253	233	245	---	---	---
13	276	235	256	196	---	---	233	221	225	---	---	---
14	237	217	228	202	---	---	230	221	225	---	---	---
15	219	202	212	199	---	183	233	226	229	---	---	---
16	206	194	203	281	174	189	236	222	229	366	361	363
17	213	195	202	199	163	183	225	215	221	371	360	366
18	229	197	216	200	167	182	230	218	224	395	360	378
19	199	155	184	195	171	183	337	222	273	400	379	389
20	195	183	188	211	173	187	275	243	257	415	396	400
21	225	191	207	183	164	179	258	243	250	---	---	---
22	228	219	225	185	171	178	261	249	256	425	364	404
23	221	197	205	180	167	177	264	243	256	445	422	434
24	201	186	196	184	175	181	246	---	---	448	422	436
25	195	189	193	190	181	187	---	---	---	454	445	448
26	225	195	203	197	188	192	---	---	---	454	440	447
27	200	197	198	197	189	192	---	---	---	456	432	449
28	199	194	197	194	185	190	---	---	---	463	438	450
29	200	175	190	188	180	184	246	---	---	455	432	447
30	220	188	207	189	181	185	256	198	234	454	423	440
31	---	---	---	190	181	186	264	220	253	---	---	---
MONTH	372	155	246	281	---	---	---	---	---	---	---	---

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.4	14.4	16.5	9.5	6.6	7.9	4.5	.9	2.3	1.5	.0	.3
2	18.1	12.8	15.4	9.6	6.8	8.0	4.9	1.4	2.8	.2	.0	.0
3	17.0	12.0	14.6	7.9	6.1	7.2	4.8	1.6	2.9	.1	.0	.0
4	16.7	14.4	15.4	8.4	5.7	6.8	5.5	2.1	3.5	.0	.0	.0
5	17.8	14.7	15.9	9.6	5.4	7.3	3.6	2.7	3.1	.2	.0	.0
6	15.9	12.0	13.8	9.7	5.9	7.7	4.1	2.8	3.3	1.8	.0	.7
7	14.9	10.7	12.6	11.1	6.4	8.7	4.5	2.4	3.3	3.5	.0	1.3
8	15.3	11.4	13.0	9.1	7.0	8.0	2.7	1.0	2.2	4.0	.7	2.1
9	15.5	10.5	12.7	9.2	6.2	7.4	1.6	.0	.4	4.7	1.0	2.6
10	15.7	10.6	12.9	9.5	5.0	7.0	.2	.0	.0	6.0	2.3	3.9
11	16.2	10.9	13.2	8.3	4.9	6.8	.6	.0	.1	6.2	3.1	4.4
12	15.8	11.0	13.1	9.6	6.8	7.9	1.5	.0	.4	5.1	2.4	3.6
13	15.0	10.0	12.4	7.4	4.7	6.3	2.6	.0	.8	5.1	1.8	3.1
14	13.2	9.7	11.5	5.6	4.0	4.8	2.8	.0	1.0	4.4	.5	2.3
15	13.3	10.3	11.6	5.8	2.7	4.1	2.3	.0	.7	5.0	1.5	3.3
16	13.8	10.1	11.6	6.1	1.6	3.7	2.3	.0	.7	5.4	2.5	4.1
17	12.8	9.3	10.9	5.5	2.3	4.0	3.4	.1	1.4	3.2	.8	1.9
18	11.7	8.1	9.7	4.0	1.2	2.4	3.7	.0	1.5	2.7	.0	1.0
19	12.9	8.7	10.5	3.9	.6	2.2	3.1	.3	1.4	2.6	.0	.7
20	12.4	8.6	10.2	5.5	1.9	3.5	3.1	.0	1.1	2.3	.0	.8
21	12.6	8.2	10.1	4.8	2.7	3.9	3.6	.0	1.5	2.2	.0	1.0
22	12.7	8.2	10.2	4.1	2.9	3.6	3.6	.3	1.6	2.7	.0	.8
23	12.7	7.9	10.1	4.8	1.7	3.0	2.9	.1	1.4	1.6	.0	.4
24	11.4	8.2	9.6	4.8	1.1	2.6	4.6	1.1	2.6	1.8	.0	.5
25	11.2	6.7	8.8	4.6	.5	2.3	5.2	1.9	3.2	2.6	.0	.9
26	11.7	7.1	9.1	4.6	1.1	2.8	5.0	1.7	3.0	---	.2	---
27	11.3	7.8	9.4	3.1	.0	1.6	4.4	1.3	2.6	---	---	---
28	12.4	8.5	10.2	1.1	.0	.2	3.7	.4	1.7	---	---	---
29	10.3	8.0	9.1	.4	.0	.0	2.7	.0	1.2	5.4	---	---
30	8.1	6.4	7.4	3.4	.0	1.3	2.4	1.3	1.9	5.4	.6	2.7
31	9.7	5.8	7.7	---	---	---	1.9	.3	1.3	6.2	1.7	3.7
MONTH	19.4	5.8	11.6	11.1	.0	4.8	5.5	.0	1.8	---	---	---

07097000 ARKANSAS RIVER AT PORTLAND, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.8	3.1	5.1	4.7	.7	2.7	12.0	5.6	8.6	13.7	9.1	11.3
2	8.0	3.5	5.5	4.2	.0	1.4	12.5	7.1	9.4	13.4	9.3	11.3
3	7.3	3.0	4.9	6.6	.0	2.9	13.6	7.3	10.3	13.4	9.9	11.5
4	8.1	3.1	5.2	10.4	3.4	6.4	14.5	8.2	11.1	15.7	10.5	12.8
5	7.7	2.7	5.0	8.9	5.6	6.9	13.9	9.2	11.2	13.8	11.2	12.5
6	8.0	2.6	5.1	6.7	4.3	5.6	13.5	8.6	11.0	15.0	10.4	12.5
7	6.4	3.0	4.6	7.9	2.6	5.1	14.9	---	---	12.1	10.4	11.0
8	5.3	2.2	3.9	7.0	2.0	4.4	15.8	10.1	12.6	13.3	9.1	10.9
9	7.0	2.4	4.5	10.1	3.3	6.5	12.4	4.9	8.9	15.1	9.3	12.3
10	6.8	2.5	4.2	12.4	5.6	8.7	8.3	3.5	5.5	17.2	10.6	13.7
11	3.3	.0	1.7	11.4	6.9	9.1	10.4	2.9	6.3	16.9	12.1	14.4
12	.0	.0	.0	---	---	---	13.1	5.2	8.8	15.0	11.4	13.2
13	.0	.0	.0	---	---	---	14.7	8.4	11.2	15.8	10.0	12.8
14	3.2	.0	1.2	13.1	---	---	13.9	9.8	11.7	17.3	10.7	13.9
15	4.6	.3	2.2	13.4	6.9	10.0	10.6	8.6	9.6	19.9	12.6	15.9
16	6.5	1.0	3.4	12.1	8.0	10.0	13.1	7.4	10.0	18.2	14.1	16.0
17	6.9	1.6	4.0	13.5	8.4	10.8	10.1	6.9	8.2	15.2	9.4	11.4
18	8.2	2.4	4.9	13.2	8.2	10.6	11.6	5.4	8.2	14.7	7.8	11.0
19	8.8	2.6	5.6	14.0	9.0	11.1	7.8	5.5	6.6	16.5	11.1	13.5
20	10.3	4.8	7.2	13.4	7.8	10.4	12.1	5.0	8.1	16.9	11.9	14.1
21	10.4	5.3	7.6	12.9	9.0	10.7	9.2	6.1	7.7	16.1	12.9	14.3
22	10.7	6.1	8.1	13.5	9.5	11.1	7.5	5.3	6.3	14.6	12.1	13.5
23	10.9	5.0	7.7	13.2	7.5	10.2	10.5	5.6	7.8	13.5	10.7	11.7
24	11.3	5.1	7.9	14.1	8.8	10.9	13.6	7.3	10.1	10.3	9.4	9.9
25	11.7	5.9	8.5	---	---	---	14.3	8.5	11.2	9.7	9.4	9.5
26	11.7	6.8	9.0	8.1	5.2	6.7	13.3	9.5	11.1	13.1	9.0	10.9
27	11.4	6.2	8.6	10.4	3.9	6.9	14.4	8.8	11.3	12.7	10.0	11.5
28	7.8	3.5	5.5	8.0	4.2	5.7	14.2	10.4	12.3	13.0	10.5	11.6
29	---	---	---	7.8	3.3	5.0	12.3	10.7	11.4	11.4	10.3	10.9
30	---	---	---	8.2	---	---	14.2	10.5	11.8	13.5	9.4	11.1
31	---	---	---	10.4	4.0	6.9	---	---	---	15.0	10.0	12.5
MONTH	11.7	.0	5.0	---	---	---	15.8	---	---	19.9	7.8	12.4
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.8	11.7	14.2	14.1	11.7	12.9	18.9	15.2	17.0	22.3	18.3	20.3
2	16.7	13.1	14.9	15.3	11.1	13.6	19.2	16.7	18.0	22.2	19.3	20.3
3	17.1	14.0	15.1	14.7	11.4	13.0	18.8	16.3	17.5	22.0	18.4	19.8
4	17.4	13.8	15.3	12.8	10.0	11.5	18.9	16.5	17.6	22.4	18.8	20.4
5	17.7	13.0	15.4	15.7	10.5	13.7	19.2	16.4	17.6	21.8	18.7	20.2
6	18.1	14.1	16.1	17.4	13.5	15.4	19.7	16.5	18.1	22.0	18.9	20.0
7	15.8	13.4	14.8	17.3	14.0	15.8	19.6	16.9	18.2	18.9	16.5	17.9
8	14.6	12.8	13.2	17.1	12.7	15.1	20.1	17.1	18.5	18.6	16.0	17.1
9	15.8	11.7	13.7	16.8	12.7	14.9	19.3	17.4	18.5	18.6	17.0	17.6
10	14.7	12.6	13.8	15.7	12.6	14.5	20.9	17.0	18.8	20.0	16.2	17.9
11	17.4	12.9	14.9	16.9	12.6	14.7	21.5	18.5	19.6	19.6	15.8	17.7
12	18.3	14.3	16.3	16.8	13.2	15.0	21.6	18.5	19.8	19.1	15.1	17.1
13	17.7	15.0	16.3	16.8	13.3	14.8	20.3	18.4	19.4	19.5	14.7	17.1
14	16.5	14.5	15.5	15.1	12.2	14.0	19.2	17.7	18.4	19.6	15.6	17.3
15	15.8	13.8	14.6	16.5	12.4	14.7	20.4	16.6	18.4	19.5	14.7	17.2
16	14.5	12.4	13.7	17.2	14.2	15.6	20.7	17.7	19.0	19.5	15.5	17.3
17	14.1	12.7	13.4	17.1	14.4	16.0	20.9	17.7	19.2	19.5	15.0	17.2
18	13.8	11.5	12.7	16.7	13.9	15.4	21.4	18.3	19.8	18.2	15.1	16.6
19	15.0	12.0	13.6	17.0	14.5	15.7	21.6	18.6	20.0	16.0	14.7	15.3
20	15.5	12.6	14.3	17.5	14.1	15.8	20.8	18.3	19.5	17.4	14.6	15.6
21	15.8	13.2	14.6	17.4	13.7	15.7	21.0	18.3	19.4	---	---	---
22	15.6	12.8	14.3	17.2	14.0	15.9	21.6	18.0	19.5	13.2	---	---
23	15.4	13.0	14.0	16.8	14.4	16.0	21.5	18.3	19.8	14.4	9.2	11.8
24	15.7	12.6	14.1	17.9	13.9	15.8	21.2	18.7	19.9	12.3	10.9	11.4
25	15.5	12.8	14.3	17.9	14.5	16.4	21.2	18.5	19.7	14.4	9.4	11.8
26	15.2	12.6	14.2	19.2	15.4	17.2	21.1	18.1	19.5	15.2	10.2	12.6
27	16.0	13.4	14.6	19.2	15.5	17.3	21.6	18.5	20.0	16.6	11.4	14.0
28	15.1	12.9	14.3	18.9	16.2	17.7	21.6	18.0	19.7	15.5	12.9	14.1
29	14.3	12.5	13.2	18.6	16.7	17.7	21.9	18.1	19.9	14.1	12.3	13.0
30	12.6	11.5	12.1	18.6	16.7	17.5	21.5	18.1	19.8	15.4	11.2	13.1
31	---	---	---	17.6	16.2	16.9	21.6	17.7	19.6	---	---	---
MONTH	18.3	11.5	14.4	19.2	10.0	15.4	21.9	15.2	19.0	---	---	---

07099050 BEAVER CREEK ABOVE UPPER BEAVER CEMETERY, NEAR PENROSE, CO

LOCATION.--Lat 38°33'42", long 105°01'17", in SE¹/4NW¹/4NE¹/4 sec.20, T.17 S., R.68 W., Fremont County, Hydrologic Unit 11020002, on left bank 40 ft upstream from bridge on Fremont County Road 132, 1 mi downstream from Banta Gulch, 1.3 mi northeast of Upper Beaver Cemetery, and 9.2 mi north of Penrose.

DRAINAGE AREA.--122 mi².

PERIOD OF RECORD.--March 1991 to current year (seasonal record). Water-quality data available, March 1991 to September 1994.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,020 ft above sea level, from topographic map.

REMARKS.--Records good. Natural flow of creek affected by storage reservoirs and diversions for municipal use by the City of Colorado Springs.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge during period of seasonal operation, 633 ft³/s, May 12, 1994, gage height, 6.45 ft, from floodmark, from rating curve extended above 410 ft³/s, on basis of slope-area measurement of peak flow; minimum daily, 5.5 ft³/s, Aug. 17, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 453 ft³/s at 0200 May 30, gage height, 5.34 ft, from rating curve extended above 410 ft³/s, on basis of slope-area measurement of peak flow; minimum daily, 10 ft³/s, Nov. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	21	---	---	---	---	13	112	269	237	84	34
2	19	21	---	---	---	---	15	124	239	235	80	44
3	17	20	---	---	---	---	16	132	233	224	75	38
4	23	20	---	---	---	---	14	125	235	221	71	29
5	23	18	---	---	---	---	18	146	249	218	61	25
6	25	18	---	---	---	---	16	163	254	214	54	22
7	20	18	---	---	---	---	18	165	232	211	48	27
8	23	18	---	---	---	---	21	154	242	208	44	28
9	23	16	---	---	---	---	27	151	253	198	38	35
10	22	17	---	---	---	---	17	157	288	191	34	55
11	21	17	---	---	---	---	13	163	303	179	30	40
12	20	17	---	---	---	---	15	168	315	170	33	29
13	19	16	---	---	---	---	22	166	326	155	55	25
14	18	12	---	---	---	---	15	29	174	330	151	36
15	26	10	---	---	---	---	19	25	188	330	166	27
16	27	---	---	---	---	25	20	206	332	164	24	26
17	30	---	---	---	---	25	26	256	318	163	22	25
18	27	---	---	---	---	21	22	249	322	172	20	27
19	26	---	---	---	---	22	28	299	296	152	44	26
20	25	---	---	---	---	22	23	360	284	170	39	27
21	26	---	---	---	---	24	30	366	281	159	45	30
22	26	---	---	---	---	33	28	380	273	156	55	28
23	26	---	---	---	---	21	23	398	267	150	56	26
24	25	---	---	---	---	20	29	403	259	138	43	26
25	24	---	---	---	---	17	30	382	255	128	50	26
26	23	---	---	---	---	15	46	311	244	116	70	31
27	21	---	---	---	---	12	46	279	238	107	62	32
28	20	---	---	---	---	16	67	273	235	114	60	31
29	20	---	---	---	---	14	89	323	235	110	67	33
30	20	---	---	---	---	13	104	341	236	87	62	35
31	21	---	---	---	---	12	---	231	---	83	42	---
TOTAL	702	---	---	---	---	---	890	7345	8173	5147	1537	913
MEAN	22.6	---	---	---	---	---	29.7	237	272	166	49.6	30.4
MAX	30	---	---	---	---	---	104	403	332	237	84	55
MIN	16	---	---	---	---	---	13	112	232	83	20	22
AC-FT	1390	---	---	---	---	---	1770	14570	16210	10210	3050	1810

07099060 BEAVER CREEK ABOVE HIGHWAY 115, NEAR PENROSE, CO

LOCATION.--Lat 38°29'21", long 104°59'49", in NE¹/4NE¹/4 sec.16, T.18 S., R.68 W., Fremont County, Hydrologic Unit 11020002, on left bank 300 ft downstream from Beaver Park Irrigation Company diversion dam, 1.8 mi upstream from Highway 115, and 4.7 mi north of Penrose.

DRAINAGE AREA.--138 mi².

PERIOD OF RECORD.--March 1991 to current year (seasonal record).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,659.08 ft above sea level.

REMARKS.--No estimated daily discharges. Records fair except for discharges below 1.5 ft³/s and above 125 ft³/s, which are poor. Natural flow of creek is affected by storage reservoirs, diversions for municipal use by Colorado Springs, and diversions for irrigation, mainly by the Beaver Park Irrigation Company. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge during period of seasonal operation, 611 ft³/s, May 30, 1995, gage height, 6.55 ft, from rating curve extended above 325 ft³/s; no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 611 ft³/s at 0515 May 30, gage height, 6.55 ft, from rating curve extended above 325 ft³/s; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	2.9	84	414	175	16	.93
2	4.5	.00	---	---	---	---	3.0	98	377	182	16	8.3
3	3.3	.00	---	---	---	---	3.0	106	373	144	12	8.6
4	13	.00	---	---	---	---	3.2	96	357	145	11	1.5
5	16	.00	---	---	---	---	3.4	114	347	129	8.6	.29
6	13	.00	---	---	---	---	3.7	120	336	111	7.6	.00
7	3.0	.00	---	---	---	---	3.7	118	352	104	6.6	.00
8	5.2	.00	---	---	---	---	3.8	94	350	102	5.4	.10
9	6.2	.00	---	---	---	---	3.9	85	335	85	3.7	4.3
10	2.3	.00	---	---	---	---	4.0	91	309	69	3.4	22
11	.15	.00	---	---	---	---	4.2	95	267	56	3.7	7.3
12	10	.00	---	---	---	---	4.2	95	261	49	2.8	.14
13	10	.00	---	---	---	---	4.4	85	268	42	15	.11
14	.03	.00	---	---	---	---	5.6	88	276	40	6.8	.10
15	.01	26	---	---	---	18	11	95	281	52	5.4	.28
16	.09	---	---	---	---	18	5.3	138	295	53	4.5	.74
17	.14	---	---	---	---	16	6.7	238	318	57	2.7	.92
18	.16	---	---	---	---	14	9.0	229	396	77	4.6	1.6
19	.19	---	---	---	---	13	15	286	305	48	14	2.7
20	.22	---	---	---	---	11	10	341	271	78	20	4.4
21	.29	---	---	---	---	6.0	38	390	250	61	7.6	4.2
22	.34	---	---	---	---	2.3	36	392	223	58	2.4	4.3
23	.34	---	---	---	---	2.5	31	401	212	54	4.3	4.8
24	.36	---	---	---	---	2.6	34	396	204	48	1.5	5.2
25	.27	---	---	---	---	2.5	36	363	199	43	1.2	7.3
26	.21	---	---	---	---	2.6	46	337	169	41	17	9.2
27	.15	---	---	---	---	2.6	45	312	159	37	12	8.6
28	.04	---	---	---	---	2.8	53	284	139	38	6.0	10
29	.00	---	---	---	---	2.8	65	314	152	38	13	12
30	.00	---	---	---	---	2.9	76	520	181	29	8.3	12
31	.00	---	---	---	---	2.8	---	454	---	16	2.0	---
TOTAL	89.49	---	---	---	---	---	570.0	6859	8376	2261	245.1	141.91
MEAN	2.89	---	---	---	---	---	19.0	221	279	72.9	7.91	4.73
MAX	16	---	---	---	---	---	76	520	414	182	20	22
MIN	.00	---	---	---	---	---	2.9	84	139	16	1.2	.00
AC-FT	178	---	---	---	---	---	1130	13600	16610	4480	486	281

07099215 TURKEY CREEK NEAR FOUNTAIN, CO

LOCATION.--Lat 38°36'42", long 104°53'39", in NW¹/4SE¹/4 sec. 33, T.16 S., R.67 W., El Paso County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, on right bank 100 ft downstream from State Highway 115 bridge, 0.7 mi downstream from Turkey Canyon, 0.8 mi upstream from Turkey Creek Ranch, and 9.4 mi southwest of Fountain.

DRAINAGE AREA.--13.0 mi².

PERIOD OF RECORD.--Streamflow records, May 1978 to September 1988, May to September 1995. Water-quality data available, May 1978 to September 1982.

REVISED RECORDS.--WDR CO-95-1: 1980 (M), 1982 (M), 1983 (M), 1984 (M), 1985 (M), 1986 (M).

GAGE.--Water-stage recorder. Elevation of gage is 6,420 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: July 18-19, and Sept. 10, 11. Records fair except for estimated daily discharges and discharges above 190 ft³/s, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period May to September, 227 ft³/s, May 30, gage height, 4.52 ft, no flow, Sept. 21-25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	83	11	1.3	.26
2	---	---	---	---	---	---	---	---	70	13	.94	.24
3	---	---	---	---	---	---	---	---	64	12	1.0	.25
4	---	---	---	---	---	---	---	---	64	12	1.2	.25
5	---	---	---	---	---	---	---	---	51	10	1.5	.13
6	---	---	---	---	---	---	---	---	38	8.7	1.3	7.3
7	---	---	---	---	---	---	---	---	30	7.7	1.0	3.1
8	---	---	---	---	---	---	---	---	32	6.6	.88	1.5
9	---	---	---	---	---	---	---	---	41	5.6	.79	.39
10	---	---	---	---	---	---	---	7.4	44	4.9	.66	.30
11	---	---	---	---	---	---	---	7.7	49	4.1	.58	.20
12	---	---	---	---	---	---	---	8.4	35	3.4	.66	.12
13	---	---	---	---	---	---	---	7.7	18	3.0	1.0	.20
14	---	---	---	---	---	---	---	7.1	17	2.9	.76	.21
15	---	---	---	---	---	---	---	7.7	17	6.5	.68	.19
16	---	---	---	---	---	---	---	8.1	13	5.0	.51	.25
17	---	---	---	---	---	---	---	26	11	4.3	.39	.32
18	---	---	---	---	---	---	---	21	9.2	3.7	.34	.27
19	---	---	---	---	---	---	---	30	7.8	3.2	3.1	.11
20	---	---	---	---	---	---	---	50	7.4	2.6	1.1	.12
21	---	---	---	---	---	---	---	52	6.9	3.7	.72	.00
22	---	---	---	---	---	---	---	34	6.5	2.9	.65	.00
23	---	---	---	---	---	---	---	22	6.1	3.4	1.1	.00
24	---	---	---	---	---	---	---	15	5.9	3.0	.65	.00
25	---	---	---	---	---	---	---	13	5.9	2.5	.64	.00
26	---	---	---	---	---	---	---	15	5.9	4.1	.62	.06
27	---	---	---	---	---	---	---	14	5.9	2.9	.66	.16
28	---	---	---	---	---	---	---	12	7.0	2.1	.52	.21
29	---	---	---	---	---	---	---	65	8.1	1.1	.44	.15
30	---	---	---	---	---	---	---	189	9.0	1.2	.37	.15
31	---	---	---	---	---	---	---	133	---	1.3	.31	---
TOTAL	---	---	---	---	---	---	---	---	768.6	158.4	26.37	16.44
MEAN	---	---	---	---	---	---	---	---	25.6	5.11	.85	.55
MAX	---	---	---	---	---	---	---	---	83	13	3.1	7.3
MIN	---	---	---	---	---	---	---	---	5.9	1.1	.31	.00
AC-FT	---	---	---	---	---	---	---	---	1520	314	52	33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1995, BY WATER YEAR (WY)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1.65	.92	.37	.19	.17	.38	1.58	7.19	5.05	1.32	2.05	.84						
MAX	14.6	7.06	2.34	1.17	.82	1.41	8.01	36.6	25.6	5.11	13.8	6.38						
(WY)	1985	1985	1985	1985	1985	1987	1985	1980	1995	1995	1982	1982						
MIN	.000	.000	.000	.000	.000	.000	.000	.057	.006	.002	.000	.000						
(WY)	1979	1979	1979	1979	1979	1980	1981	1981	1978	1989	1989	1978						

SUMMARY STATISTICS

WATER YEARS 1978 - 1995

ANNUAL MEAN	1.72
HIGHEST ANNUAL MEAN	5.53
LOWEST ANNUAL MEAN	.083
HIGHEST DAILY MEAN	189
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
INSTANTANEOUS PEAK FLOW	450
INSTANTANEOUS PEAK STAGE	4.70
ANNUAL RUNOFF (AC-FT)	1240
10 PERCENT EXCEEDS	4.4
50 PERCENT EXCEEDS	.16
90 PERCENT EXCEEDS	.00

07099230 TURKEY CREEK ABOVE TELLER RESERVOIR, NEAR STONE CITY, CO

LOCATION.--Lat 38°27'54", long 104°49'33", in NE¹/4SW¹/4 sec.19, T.18 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, on left bank, 0.7 mi northwest of intersection of military roads 9, and 1, 2.2 mi upstream from Teller Reservoir Dam, and 2.2 mi northeast of Stone City.

DRAINAGE AREA.--62.3 mi².

REVISED RECORDS.--WDR CO-89-1: Drainage area.

PERIOD OF RECORD.--Streamflow records, May 1978 to current year. Water-quality data available, May 1978 to September 1981. Prior to July 20, 1989, at site 0.6 mi downstream, at different datum.

GAGE.--Water-stage recorder with satellite telemetry and concrete control with V-notch sharp-crested weir. Elevation of gage is 5,520 ft above sea level, from topographic map. Prior to July 20, 1989, at site 0.6 mi downstream, at different datum.

REMARKS.--No estimated daily discharges. Records fair except for daily discharges above 190 ft³/s, and winter period, which are poor. Diversions upstream from gage for irrigation, amount unknown. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.17	.18	.19	.20	.22	.16	.12	.50	158	15	3.2	.85
2	.10	.17	.20	.20	.23	.17	.11	.34	131	15	2.9	.84
3	.22	.12	.20	.22	.25	.17	.11	1.4	116	16	2.3	.88
4	.20	.12	.20	.22	.25	.17	.10	2.0	117	16	2.2	.99
5	.25	.14	.20	.25	.24	.16	.10	2.8	111	12	2.3	.90
6	.24	.14	.20	.30	.23	.17	.10	4.4	91	9.2	1.9	.82
7	.19	.15	.20	.27	.23	.16	.09	6.8	72	8.4	1.6	.81
8	.19	.15	.22	.25	.22	.15	.09	9.6	60	7.4	1.4	.96
9	.19	.15	.22	.24	.22	.15	.08	11	57	7.9	1.2	1.2
10	.14	.16	.21	.23	.22	.15	.08	11	52	7.8	1.1	1.0
11	.11	.16	.24	.22	.22	.15	.08	11	49	5.9	.89	1.0
12	.12	.16	.25	.23	.22	.15	.09	13	45	5.2	.89	1.0
13	.11	.16	.27	.23	.22	.14	.07	14	43	5.0	.84	.91
14	.14	.16	.26	.23	.23	.14	.10	14	39	4.9	.81	.82
15	.11	.16	.26	.22	.22	.13	.10	16	34	4.9	.97	.84
16	.12	.16	.27	.21	.22	.13	.10	17	31	12	.76	.81
17	.16	.15	.25	.20	.22	.12	.11	39	27	6.2	.62	.81
18	.14	.14	.25	.20	.22	.12	.25	62	31	8.2	.50	.82
19	.13	.15	.24	.23	.22	.12	.27	66	26	6.7	.78	.88
20	.11	.14	.26	.25	.23	.11	.28	69	27	12	1.3	.94
21	.12	.14	.29	.24	.32	.12	.37	73	24	9.2	.93	1.0
22	.12	.14	.27	.25	.19	.12	.35	72	21	8.3	.89	1.1
23	.13	.14	.26	.29	.20	.13	.34	66	19	6.6	1.1	1.1
24	.14	.16	.23	.33	.19	.13	.33	61	18	6.3	1.0	.96
25	.15	.18	.22	.33	.19	.12	.34	55	18	5.4	.98	1.1
26	.15	.19	.22	.27	.18	.12	.34	56	15	5.2	.99	1.0
27	.16	.19	.22	.23	.17	.12	.34	56	14	4.7	.98	.92
28	.17	.22	.22	.23	.17	.11	.47	55	13	4.2	.89	.87
29	.16	.23	.22	.22	---	.11	.49	59	15	3.5	.85	.94
30	.16	.27	.22	.23	---	.12	.51	286	15	3.0	.85	.95
31	.18	---	.21	.22	---	.12	---	197	---	3.0	.83	---
TOTAL	4.78	4.88	7.17	7.44	6.14	4.24	6.31	1406.84	1489	245.1	38.75	28.02
MEAN	.15	.16	.23	.24	.22	.14	.21	45.4	49.6	7.91	1.25	.93
MAX	.25	.27	.29	.33	.32	.17	.51	286	158	16	3.2	1.2
MIN	.10	.12	.19	.20	.17	.11	.07	.34	13	3.0	.50	.81
AC-FT	9.5	9.7	14	15	12	8.4	13	2790	2950	486	77	56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1995, BY WATER YEAR (WY)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	3.27	2.12	.86	.64	.61	.59	1.28	12.7	9.49	3.13	3.91	1.62						
MAX	44.6	26.7	6.47	2.69	2.58	2.75	12.9	73.6	49.6	17.1	40.9	18.1						
(WY)	1985	1985	1985	1985	1985	1985	1985	1980	1995	1985	1982	1982						
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
(WY)	1979	1979	1979	1979	1979	1979	1979	1979	1989	1978	1990	1978						

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1978 - 1995	
ANNUAL TOTAL	823.31		3248.67			
ANNUAL MEAN	2.26		8.90		3.45	
HIGHEST ANNUAL MEAN					13.1	
LOWEST ANNUAL MEAN					.000	
HIGHEST DAILY MEAN	65	May 11	286	May 30	353	Aug 20 1982
LOWEST DAILY MEAN	.00	Jan 24	.07	Apr 13	a	.00 May 18 1978
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 27	.08	Apr 7	b	.00 May 18 1978
INSTANTANEOUS PEAK FLOW			415	May 30	b	3640 Aug 20 1982
INSTANTANEOUS PEAK STAGE			8.50	May 30	c	11.51 Aug 20 1982
ANNUAL RUNOFF (AC-FT)	1630		6440		2500	
10 PERCENT EXCEEDS	2.8		22		5.3	
50 PERCENT EXCEEDS	.17		.25		.38	
90 PERCENT EXCEEDS	.00		.12		.00	

a-No flow many days during most years.

b-From rating curve extended above 100 ft³/s, on the basis of slope-area measurements at gage heights 8.04 ft and 11.27 ft.

c-Maximum gage height, 11.88 ft, Jun 8, 1987, site and datum then in use.

07099233 TELLER RESERVOIR NEAR STONE CITY, CO

LOCATION.--Lat 38°26'33", long 104°49'31", in SE¹/4NW¹/4 sec.31, T.18 S., R.66 W., in Pueblo County, Hydrologic Unit 11020002, at left upstream end of dam on Turkey Creek on Fort Carson Military Reservation, 1.4 mi upstream from Booth Gulch, and 2.0 mi east of Stone City.

DRAINAGE AREA.--71.5 mi².

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

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,453 ft above sea level, from topographic map.

REMARKS.--Estimated days (at 2400): Mar. 24, Sept. 5, 6, and 13-18. Records good except for estimated days, which are poor. Reservoir is formed by an earthfill dam completed around 1908. Maximum capacity of reservoir is 1,780 acre-ft at an uncontrolled spillway elevation of about 88 ft, 1980 survey. There is a controlled outlet from reservoir, however, considerable leakage occurs. Reservoir is used for recreation and for amphibious training for Fort Carson.

EXTREMES (at 2400) FOR PERIOD OF RECORD.--Maximum contents, 2,210 acre-ft, June 21, 1980, elevation, 90.15 ft, from capacity curve extended above 88 ft; no contents during 1979, 1991-94 water years.

EXTREMES (at 2400) FOR CURRENT YEAR.--Maximum contents, 1,730 acre-ft, May 30, elevation, 87.69 ft; minimum contents, 280 acre-ft, April 16.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	469	416	385	355	335	315	292	305	1530	1270	1090	782
2	469	416	385	355	334	315	292	305	1510	1270	1080	771
3	469	413	384	353	332	316	290	304	1530	1270	1070	761
4	471	413	382	352	332	316	289	303	1540	1270	1070	751
5	469	411	382	352	332	316	289	303	1540	1270	1070	746
6	467	409	381	349	331	316	286	302	1520	1260	1070	727
7	465	411	380	351	330	315	286	302	1470	1250	1060	718
8	462	409	378	352	329	315	284	312	1440	1240	1060	716
9	462	406	377	351	329	314	284	329	1430	1230	1050	710
10	459	406	376	351	328	314	285	350	1410	1220	1050	703
11	457	405	374	349	327	313	283	377	1400	1210	1040	696
12	454	403	373	348	326	311	283	405	1380	1190	1020	687
13	452	401	373	347	326	310	283	433	1370	1170	1010	686
14	450	401	372	346	327	308	282	460	1360	1160	991	670
15	447	399	371	346	325	308	281	489	1340	1150	979	660
16	447	400	370	345	325	307	280	526	1340	1160	968	650
17	447	397	369	343	325	307	281	675	1330	1160	953	645
18	447	395	369	342	324	307	283	811	1330	1160	936	638
19	444	395	366	341	323	304	286	940	1330	1160	927	634
20	441	397	365	341	323	303	287	1080	1320	1180	914	628
21	441	397	365	340	322	302	298	1220	1300	1190	901	621
22	437	395	363	338	322	300	304	1350	1290	1200	889	614
23	433	394	363	337	321	298	304	1450	1280	1200	879	611
24	430	394	361	337	321	298	306	1510	1280	1200	869	603
25	428	394	361	337	319	296	306	1500	1280	1190	858	597
26	429	392	361	337	319	293	307	1470	1270	1190	849	592
27	428	390	359	337	318	291	307	1460	1260	1170	838	586
28	426	388	359	336	316	293	305	1460	1260	1160	827	580
29	422	386	359	335	---	294	305	1470	1260	1140	816	574
30	420	386	358	335	---	293	305	1730	1260	1120	804	569
31	419	---	357	335	---	292	---	1590	---	1100	793	---
TOTAL	13861	12019	11478	10673	9121	9480	8753	25521	41160	37110	29731	19926
MEAN	447	401	370	344	326	306	292	823	1370	1200	959	664
MAX	471	416	385	355	335	316	307	1730	1540	1270	1090	782
MIN	419	386	357	335	316	291	280	302	1260	1100	793	569

07099235 TURKEY CREEK NEAR STONE CITY, CO

LOCATION.--Lat 38°26'22", long 104°9'34", in SW¹/₄SW¹/₄ sec.31, T.18 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, on right bank, 0.2 mi downstream from Teller Reservoir Dam, 1.1 mi upstream from military road No. 11, and 2.0 mi southeast of Stone City.

DRAINAGE AREA.--71.5 mi².

PERIOD OF RECORD.--May 1978 to November 1984; June 12, 1987 to current year.

REVISED RECORDS.--WDR CO-80-1: 1979(M).

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir since Dec. 6, 1989. Elevation of gage is 5,395 ft above sea level, from topographic map. Prior to June 12, 1987, at site 0.1 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Feb. 11-15. Records fair except those above about 65 ft³/s, which are poor. Flow regulated by Teller Reservoir 0.2 mi upstream. Gage records seepage and releases from reservoir. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	.17	.16	.15	.15	.14	.13	.16	59	10	8.9	4.3
2	.35	.17	.16	.15	.14	.14	.13	.20	43	10	8.8	4.3
3	.31	.17	.16	.15	.14	.14	.13	.18	47	10	4.7	4.3
4	.34	.17	.16	.15	.14	.13	.13	.18	54	10	1.5	4.2
5	.28	.16	.16	.15	.14	.13	.13	.18	57	10	1.5	4.1
6	.22	.17	.16	.15	.14	.13	.13	.15	48	10	1.5	4.1
7	.22	.18	.16	.15	.14	.13	.13	.16	36	10	1.5	3.9
8	.23	.16	.16	.14	.14	.13	.13	.16	19	10	1.5	3.9
9	.23	.16	.16	.16	.14	.13	.13	.16	13	10	1.5	3.8
10	.23	.17	.15	.16	.14	.14	.13	.16	12	10	1.4	3.6
11	.24	.17	.16	.17	.14	.14	.13	.17	12	10	3.7	3.5
12	.24	.17	.15	.16	.14	.14	.13	.19	12	9.9	5.7	3.4
13	.24	.16	.16	.16	.13	.14	.13	.20	12	9.8	5.6	3.2
14	.25	.17	.17	.16	.13	.14	.13	.21	12	9.7	5.6	3.1
15	.26	.16	.19	.16	.13	.14	.13	.24	12	9.7	5.5	3.0
16	.25	.17	.18	.16	.13	.14	.13	.29	12	9.7	5.4	2.9
17	.27	.16	.16	.16	.13	.14	.13	.49	12	9.7	5.4	2.8
18	.24	.16	.19	.15	.14	.13	.13	.51	12	9.7	5.2	2.7
19	.24	.16	.15	.15	.14	.13	.15	.90	11	9.7	5.2	2.6
20	.22	.18	.15	.15	.14	.13	.15	1.1	11	9.7	5.2	2.5
21	.19	.16	.15	.15	.14	.13	.16	1.2	11	9.7	5.1	2.4
22	.19	.16	.15	.15	.14	.14	.16	4.0	11	9.7	4.9	2.3
23	.19	.16	.15	.14	.14	.14	.16	9.4	11	9.8	4.9	2.2
24	.18	.17	.15	.14	.14	.14	.16	20	10	9.8	4.8	2.2
25	.17	.17	.15	.15	.14	.14	.17	26	10	9.7	4.8	2.1
26	.17	.17	.15	.15	.14	.14	.17	19	10	9.7	4.7	2.0
27	.17	.17	.15	.15	.14	.13	.16	17	10	9.7	4.7	2.0
28	.18	.16	.15	.15	.14	.15	.16	16	10	9.6	4.7	1.9
29	.17	.16	.15	.15	---	.15	.15	16	10	9.5	4.6	1.8
30	.17	.16	.15	.15	---	.14	.16	55	10	9.4	4.5	1.8
31	.17	---	.15	.15	---	.13	---	70	---	9.1	4.4	---
TOTAL	7.17	4.98	4.90	4.72	3.88	4.24	4.25	259.59	609	303.3	137.4	90.9
MEAN	.23	.17	.16	.15	.14	.14	.14	8.37	20.3	9.78	4.43	3.03
MAX	.36	.18	.19	.17	.15	.15	.17	70	59	10	8.9	4.3
MIN	.17	.16	.15	.14	.13	.13	.13	.15	10	9.1	1.4	1.8
AC-FT	14	9.9	9.7	9.4	7.7	8.4	8.4	515	1210	602	273	180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1995, BY WATER YEAR (WY)

MEAN	.32	.32	.26	.24	.25	.24	.20	1.19	2.22	1.31	.78	.60
MAX	1.64	1.57	1.47	1.49	1.54	1.36	.92	8.37	20.3	9.78	4.43	3.03
(WY)	1983	1983	1983	1983	1983	1983	1983	1995	1995	1995	1995	1995
MIN	.010	.010	.010	.010	.010	.015	.015	.011	.010	.010	.010	.010
(WY)	1992	1992	1992	1979	1979	1992	1979	1979	1978	1991	1991	1991

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1978 - 1995

ANNUAL TOTAL	253.10		1434.33		
ANNUAL MEAN	.69		3.93		.67
HIGHEST ANNUAL MEAN					3.93
LOWEST ANNUAL MEAN					.024
HIGHEST DAILY MEAN	11	May 18	70	May 31	70
LOWEST DAILY MEAN	a .03	Jan 1	b .13	Feb 13	.00
ANNUAL SEVEN-DAY MINIMUM	.03	Jan 1	.13	Mar 31	.01
INSTANTANEOUS PEAK FLOW			83	May 30	83
INSTANTANEOUS PEAK STAGE			6.29	May 30	6.29
ANNUAL RUNOFF (AC-FT)	502		2840		487
10 PERCENT EXCEEDS	2.7		10		1.6
50 PERCENT EXCEEDS	.17		.17		.10
90 PERCENT EXCEEDS	.03		.14		.01

a-Also occurred Jan 2 to Mar 22.

b-Also occurred Feb 14-17, Mar 4-9, 18-21, 27, and Mar 31 to Apr 18.

ARKANSAS RIVER BASIN

07099350 PUEBLO RESERVOIR NEAR PUEBLO, CO

LOCATION.--Lat 38°16'15", long 104°43'30", in NE¹/₄ sec.36, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, at dam on Arkansas River, 7 mi west of Pueblo.

DRAINAGE AREA.--4,669 mi².

PERIOD OF RECORD.--January 1974 to current year.

GAGE.--Nonrecording gage. Datum of gage is 4,898.70 ft above sea level, (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level.

REMARKS.--Reservoir is formed by concrete and earthfill dam. Storage began Jan. 9, 1974; dam completed in August 1975. Capacity, 357,700 acre-ft at elevation 4,898.70 ft, crest of spillway. Dead storage, 3,730 acre-ft, below elevation 4,764.00 ft, invert of river outlet. Reservoir is terminal reservoir of the Fryingpan-Arkansas project and is used to provide flood control, municipal and industrial supplies, and to fulfill irrigation requirements in the Arkansas River valley. Figures given are total contents.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 295,480 acre-ft, Feb. 12, 1985, elevation, 4,886.94 ft; minimum since appreciable storage was attained, 22,680 acre-ft, Nov. 13, 1974, elevation, 4,790.50 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 261,490 acre-ft, July 3 and July 20, elevation, 4,881.47 ft; minimum contents, 96,820 acre-ft, Oct. 2, elevation, 4,834.15 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	4,834.45	97,580	-
Oct. 31.	4,835.03	99,070	+1,490
Nov. 30.	4,841.25	115,730	+16,660
Dec. 31.	4,846.70	131,400	+15,670
CAL YR 1994.	-	-	-23,080
Jan. 31.	4,855.05	157,530	+26,130
Feb. 28.	4,860.18	175,080	+17,550
Mar. 31.	4,863.33	186,450	+11,370
Apr. 30.	4,863.70	187,820	+1,370
May 31.	4,872.07	220,430	+32,610
June 30.	4,879.30	251,500	+31,070
July 31.	4,880.58	257,360	+5,860
Aug. 31.	4,880.18	255,520	-1,840
Sept. 30.	4,879.75	253,550	-1,970
WTR YR 1995.	-	-	+155,970

07099350 PUEBLO RESERVOIR NEAR PUEBLO CO--Continued

WATER-QUALITY RECORDS

REMARKS.--Samples and field measurements were collected at a number of transects located along the length of the reservoir.

381754104504000 PUEBLO RESERVOIR SITE 2B

LOCATION.--Lat 38°17'54", long 104°50'40", in SW¹/4NW¹/4, sec.24, T.20 S., R.67 W., Pueblo County, Hydrologic Unit 11020002, at approximate center of transect, approximately 1.1 mi downstream from Rush Creek, 1.1 mi upstream from Turkey Creek, and 7.8 mi upstream from Pueblo Dam.

PERIOD OF RECORD.--June 1988 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (M)	OXYGEN, DIS- SOLVED (MG/L)
MAY 1995							
16...	1120	--	--	--	--	0.6	--
16...	1121	0.0	419	8.3	16.5	--	7.1
16...	1122	3.0	419	8.3	15.5	--	7.0
16...	1123	6.0	419	8.2	14.5	--	7.0
16...	1124	9.0	418	8.1	13.5	--	7.0
16...	1125	12.0	418	8.0	13.0	--	6.8
16...	1126	14.0	419	7.9	12.5	--	6.1
JUN							
28...	1210	--	--	--	--	0.6	--
28...	1211	0.0	279	8.3	20.0	--	7.9
28...	1212	3.0	276	8.3	19.5	--	7.8
28...	1213	6.0	233	8.0	16.5	--	7.2
28...	1214	9.0	228	8.0	16.0	--	7.5
28...	1215	12.0	221	8.0	15.0	--	7.7
28...	1216	15.0	213	8.0	14.5	--	7.8
28...	1217	18.0	213	8.0	14.5	--	7.8
28...	1218	21.0	214	8.0	14.0	--	7.8
28...	1219	23.0	213	7.9	14.0	--	7.7
AUG							
11...	1235	--	--	--	--	2.1	--
11...	1236	0.0	284	8.5	23.5	--	E7.1
11...	1237	6.0	283	8.5	23.5	--	E7.1
11...	1238	12.0	283	8.5	23.0	--	E7.3
11...	1239	18.0	285	8.5	23.0	--	E7.2
11...	1240	24.0	286	8.4	23.0	--	E7.2
11...	1241	30.0	272	7.8	19.5	--	E4.4
SEP							
28...	1210	--	--	--	--	1.5	--
28...	1211	0.0	318	8.8	18.5	--	8.9
28...	1212	6.0	320	8.8	18.0	--	9.2
28...	1213	12.0	321	8.8	18.0	--	9.3
28...	1214	18.0	325	8.8	18.0	--	9.4
28...	1215	24.0	433	8.7	16.5	--	8.8
28...	1216	28.0	467	8.1	15.0	--	6.9

E-Estimated.

07099350 PUEBLO RESERVOIR NEAR PUEBLO CO--Continued

WATER-QUALITY RECORDS

381725104494400 PUEBLO RESERVOIR SITE 3B

LOCATION.--Lat 38°17'25", long 104°49'44", in SW¹/4SW¹/4, sec.19, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, at approximate center of transect, approximately 100 ft downstream from Turkey Creek, and 6.7 mi upstream from Pueblo Dam.

PERIOD OF RECORD.--June 1988 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (M)	OXYGEN, DIS- SOLVED (MG/L)
MAY 1995							
16...	1055	--	--	--	--	0.9	--
16...	1056	0.0	420	8.4	17.5	--	8.4
16...	1057	3.0	418	8.4	16.0	--	8.1
16...	1058	6.0	421	8.4	15.5	--	8.0
16...	1059	9.0	455	8.2	13.0	--	7.9
16...	1100	12.0	465	8.2	13.0	--	8.0
16...	1101	15.0	468	8.2	12.5	--	8.2
16...	1102	18.0	470	8.2	12.5	--	8.1
16...	1103	21.0	470	8.2	12.0	--	7.9
16...	1104	24.0	472	8.0	12.0	--	6.4
16...	1105	26.0	468	8.0	12.0	--	6.1
JUN							
28...	1155	--	--	--	--	1.1	--
28...	1156	0.0	318	8.5	21.5	--	8.3
28...	1157	3.0	320	8.5	21.5	--	8.3
28...	1158	6.0	316	8.5	20.5	--	8.3
28...	1159	9.0	284	8.2	19.5	--	7.8
28...	1200	12.0	256	8.1	18.0	--	7.6
28...	1201	15.0	241	8.0	17.5	--	7.5
28...	1202	18.0	221	7.9	15.5	--	7.5
28...	1203	21.0	219	7.9	15.5	--	7.4
28...	1204	24.0	219	7.9	15.5	--	7.4
28...	1205	27.0	219	7.9	15.5	--	7.3
28...	1206	30.0	219	7.9	15.5	--	7.3
28...	1207	33.0	220	7.9	15.5	--	7.3
28...	1208	36.0	220	7.9	15.0	--	7.3
28...	1209	37.0	220	7.9	15.0	--	7.3
AUG							
11...	1200	--	--	--	--	2.1	--
11...	1201	0.0	293	8.5	23.5	--	E7.1
11...	1202	3.0	292	8.5	23.5	--	E7.2
11...	1203	6.0	292	8.5	23.0	--	E7.1
11...	1204	9.0	293	8.4	23.0	--	E7.0
11...	1205	12.0	293	8.4	23.0	--	E7.0
11...	1206	15.0	292	8.4	23.0	--	E6.9
11...	1207	18.0	277	8.2	22.0	--	E6.5
11...	1208	21.0	274	8.2	21.5	--	E6.4
11...	1209	24.0	263	8.0	20.5	--	E5.8
11...	1210	27.0	262	7.9	20.0	--	E5.8
11...	1211	30.0	258	7.9	19.5	--	E5.9
11...	1212	33.0	256	7.9	19.5	--	E5.7
11...	1213	36.0	253	7.8	19.0	--	E5.3
11...	1214	39.0	254	7.8	19.0	--	E5.0
11...	1215	41.0	256	7.8	19.0	--	E5.0
SEP							
28...	1140	--	--	--	--	1.8	--
28...	1141	0.0	316	8.4	19.0	--	7.4
28...	1142	3.0	316	8.5	18.5	--	7.3
28...	1143	6.0	316	8.5	18.5	--	7.4
28...	1144	9.0	317	8.4	18.5	--	7.2
28...	1145	12.0	317	8.4	18.5	--	7.3
28...	1146	15.0	318	8.4	18.5	--	7.4
28...	1147	18.0	317	8.4	18.5	--	7.5
28...	1148	21.0	317	8.4	18.5	--	7.6
28...	1149	24.0	317	8.4	18.5	--	7.1
28...	1150	27.0	320	8.4	18.5	--	7.0
28...	1151	30.0	322	8.4	18.0	--	7.1
28...	1152	33.0	335	8.6	17.5	--	7.5
28...	1153	36.0	470	8.3	14.5	--	7.0
28...	1154	39.0	476	8.3	14.5	--	6.8

E-Estimated.

07099350 PUEBLO RESERVOIR NEAR PUEBLO CO--Continued

WATER-QUALITY RECORDS

381647104475300 PUEBLO RESERVOIR SITE 4B

LOCATION.--Lat 38°16'47", long 104°47'53", in NW¹/4SE¹/4, sec.29, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, at approximate center of transect, approximately 1.3 mi upstream from Peck Creek, 2.2 mi downstream from Turkey Creek, and 4.5 mi upstream from Pueblo Dam.

PERIOD OF RECORD.--June 1988 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (M)	OXYGEN, DIS- SOLVED (MG/L)
MAY 1995							
16...	1155	--	--	--	--	1.5	--
16...	1156	0.0	444	8.4	15.0	--	8.9
16...	1157	6.0	444	8.4	15.0	--	8.9
16...	1158	12.0	473	8.4	13.0	--	9.1
16...	1159	18.0	492	8.3	12.5	--	8.8
16...	1200	24.0	491	8.2	11.5	--	8.3
16...	1201	30.0	498	8.2	11.0	--	8.4
16...	1202	36.0	503	8.2	11.0	--	8.5
16...	1203	42.0	503	8.2	10.5	--	8.4
16...	1204	48.0	502	8.2	10.5	--	8.2
16...	1205	49.0	502	8.2	10.5	--	8.2
JUN							
28...	1135	--	--	--	--	1.2	--
28...	1136	0.0	334	8.4	21.5	--	7.9
28...	1137	6.0	332	8.5	20.5	--	8.0
28...	1138	12.0	344	8.3	20.5	--	8.1
28...	1139	18.0	353	8.1	19.5	--	7.4
28...	1140	24.0	351	7.9	18.5	--	6.1
28...	1141	30.0	303	7.8	17.5	--	6.2
28...	1142	36.0	262	7.8	17.0	--	6.4
28...	1143	42.0	244	7.9	16.0	--	6.8
28...	1144	48.0	242	7.8	16.0	--	7.0
28...	1145	56.0	237	7.8	15.5	--	6.8
28...	1146	60.0	237	7.8	15.0	--	6.8
AUG							
11...	1255	--	--	--	--	2.3	--
11...	1256	0.0	307	8.4	24.0	--	E6.8
11...	1257	6.0	307	8.4	23.5	--	E6.7
11...	1258	12.0	296	8.3	23.0	--	E6.6
11...	1259	18.0	274	8.0	21.0	--	E6.1
11...	1300	24.0	262	8.0	20.0	--	E5.6
11...	1301	30.0	261	7.8	19.5	--	E5.2
11...	1302	36.0	258	7.8	19.0	--	E4.7
11...	1303	42.0	258	7.8	18.5	--	E4.4
11...	1304	48.0	255	7.7	18.0	--	E4.0
11...	1305	54.0	256	7.7	18.0	--	E3.9
11...	1306	59.0	251	7.7	18.0	--	E3.7
SEP							
28...	1300	--	--	--	--	1.8	--
28...	1301	0.0	314	8.6	19.0	--	7.8
28...	1302	6.0	315	8.5	18.5	--	7.5
28...	1303	12.0	316	8.4	18.5	--	6.9
28...	1304	17.0	316	8.4	18.5	--	6.7

E-Estimated.

07099350 PUEBLO RESERVOIR NEAR PUEBLO CO--Continued

WATER-QUALITY RECORDS

381559104465500 PUEBLO RESERVOIR SITE 5C

LOCATION.--Lat 38°15'59", long 104°46'55", in SW¹/4NE¹/4, sec.33, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, at approximate center of transect, approximately 0.1 mi upstream from Peck Creek, 1.2 mi upstream from Rock Creek, and 3.2 mi upstream from Pueblo Dam.

PERIOD OF RECORD.--June 1988 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (M)	OXYGEN, DIS- SOLVED (MG/L)
MAY 1995							
16...	1025	--	--	--	--	2.1	--
16...	1026	0.0	468	8.4	14.5	--	9.0
16...	1027	3.0	472	8.4	14.0	--	9.0
16...	1028	6.0	482	8.4	13.5	--	9.1
16...	1029	9.0	495	8.4	13.0	--	9.2
16...	1030	12.0	496	8.4	12.5	--	9.1
16...	1031	15.0	496	8.4	12.5	--	9.0
16...	1032	18.0	496	8.4	12.5	--	9.0
16...	1033	21.0	493	8.3	12.5	--	8.7
16...	1034	24.0	494	8.3	12.0	--	8.6
16...	1035	27.0	494	8.3	12.0	--	8.6
16...	1036	30.0	494	8.3	12.0	--	8.5
16...	1037	33.0	498	8.3	11.5	--	8.5
16...	1038	36.0	496	8.2	11.5	--	8.4
16...	1039	39.0	497	8.2	11.5	--	8.4
16...	1040	42.0	501	8.2	11.0	--	8.4
16...	1041	45.0	503	8.2	11.0	--	8.4
16...	1042	48.0	502	8.2	10.5	--	8.4
16...	1043	51.0	502	8.2	10.5	--	8.2
16...	1044	54.0	506	8.1	10.5	--	7.9
16...	1045	57.0	507	8.1	10.0	--	7.9
16...	1046	58.0	507	8.1	10.0	--	7.9
JUN							
28...	1125	--	--	--	--	1.2	--
28...	1126	0.0	345	8.4	21.0	--	8.3
28...	1127	3.0	345	8.4	21.0	--	8.3
28...	1128	6.0	345	8.4	20.5	--	8.3
28...	1129	9.0	346	8.4	20.5	--	8.2
28...	1130	12.0	356	8.3	20.5	--	8.0
28...	1131	15.0	371	8.2	19.5	--	7.7
28...	1132	18.0	367	8.0	19.0	--	6.8
28...	1133	21.0	327	7.8	18.0	--	6.2
28...	1134	24.0	285	7.7	17.5	--	6.2
28...	1135	27.0	264	7.8	17.0	--	6.5
28...	1136	30.0	267	7.8	17.0	--	6.7
28...	1137	33.0	264	7.8	16.5	--	6.7
28...	1138	36.0	259	7.8	16.5	--	6.8
28...	1139	39.0	251	7.8	16.5	--	6.9
28...	1140	42.0	246	7.8	16.0	--	7.0
28...	1141	45.0	242	7.8	16.0	--	7.0
28...	1142	48.0	241	7.8	16.0	--	7.0
28...	1143	51.0	240	7.8	16.0	--	7.0
28...	1144	54.0	239	7.8	16.0	--	6.9
28...	1145	57.0	238	7.8	16.0	--	6.8
28...	1146	60.0	238	7.8	15.5	--	6.9
28...	1147	63.0	238	7.8	15.5	--	6.8
28...	1148	66.0	239	7.8	15.5	--	6.7
28...	1149	69.0	238	7.8	15.5	--	6.7
28...	1150	72.0	237	7.8	15.5	--	6.7
28...	1151	74.0	237	7.8	15.5	--	6.6

07099350 PUEBLO RESERVOIR NEAR PUEBLO CO--Continued

WATER-QUALITY RECORDS

381559104465500 PUEBLO RESERVOIR SITE 5C--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (M)	OXYGEN, DIS- SOLVED (MG/L)
AUG							
11...	1055	--	--	--	--	4.0	--
11...	1056	0.0	309	8.4	23.5	--	E6.8
11...	1057	3.0	308	8.4	23.5	--	E6.8
11...	1058	6.0	309	8.4	23.5	--	E6.7
11...	1059	9.0	309	8.4	23.5	--	E6.7
11...	1100	12.0	310	8.4	23.5	--	E6.5
11...	1101	15.0	308	8.3	23.0	--	E5.8
11...	1102	18.0	308	8.1	22.0	--	E5.0
11...	1103	21.0	293	8.0	21.5	--	E4.7
11...	1104	24.0	274	7.8	20.5	--	E4.2
11...	1105	26.0	261	7.8	19.5	--	E4.5
SEP							
28...	1100	--	--	--	--	1.8	--
28...	1101	0.0	317	8.3	19.0	--	6.9
28...	1102	3.0	317	8.3	18.5	--	6.7
28...	1103	6.0	316	8.3	18.5	--	6.7
28...	1104	9.0	317	8.3	18.5	--	6.8
28...	1105	12.0	317	8.2	18.5	--	6.8
28...	1106	15.0	317	8.2	18.5	--	6.9
28...	1107	18.0	317	8.2	18.5	--	6.9
28...	1108	21.0	317	8.2	18.5	--	6.8
28...	1109	24.0	317	8.2	18.5	--	6.7
28...	1110	27.0	317	8.2	18.5	--	6.6
28...	1111	30.0	317	8.2	18.5	--	6.6
28...	1112	33.0	317	8.2	18.5	--	6.7
28...	1113	36.0	317	8.2	18.5	--	6.7
28...	1114	39.0	317	8.2	18.5	--	6.4
28...	1115	42.0	317	8.3	18.5	--	6.3
28...	1116	45.0	319	8.2	18.5	--	5.9
28...	1117	48.0	322	8.2	18.5	--	6.0
28...	1118	51.0	322	8.2	18.5	--	6.0
28...	1119	54.0	322	8.2	18.5	--	6.1
28...	1120	56.0	323	8.2	18.5	--	6.0

E-Estimated.

07099350 PUEBLO RESERVOIR NEAR PUEBLO CO--Continued

WATER-QUALITY RECORDS

381548104453300 PUEBLO RESERVOIR SITE 6C

LOCATION.--Lat 38°15'48", long 104°45'33", in NE¹/4SE¹/4, sec.34, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, at approximate center of transect, approximately 0.2 mi downstream from Rock Creek, and 1.2 mi downstream from Peck Creek, and 2.0 mi upstream from Pueblo Dam.

PERIOD OF RECORD.--June 1988 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (M)	OXYGEN, DIS- SOLVED (MG/L)
MAY 1995							
16...	1215	--	--	--	--	4.9	--
16...	1216	0.0	500	8.4	14.0	--	9.1
16...	1217	6.0	500	8.4	13.5	--	9.1
16...	1218	12.0	499	8.4	13.0	--	9.2
16...	1219	18.0	499	8.4	12.5	--	9.1
16...	1220	24.0	500	8.3	12.0	--	9.0
16...	1221	30.0	500	8.3	12.0	--	8.8
16...	1222	36.0	500	8.3	12.0	--	8.6
16...	1223	42.0	500	8.3	11.5	--	8.6
16...	1224	48.0	497	8.2	11.5	--	8.6
16...	1225	54.0	501	8.2	11.0	--	8.5
16...	1226	60.0	502	8.2	11.0	--	8.5
16...	1227	66.0	503	8.2	10.5	--	8.4
16...	1228	72.0	504	8.2	10.5	--	8.4
16...	1229	78.0	507	8.1	10.0	--	8.2
16...	1230	84.0	507	8.1	10.0	--	8.1
16...	1231	89.0	508	8.1	10.0	--	8.0
JUN							
28...	1300	--	--	--	--	1.8	--
28...	1301	0.0	357	8.5	22.5	--	8.0
28...	1302	6.0	358	8.5	20.5	--	8.2
28...	1303	12.0	363	8.4	20.5	--	7.8
28...	1304	18.0	369	7.9	18.5	--	6.2
28...	1305	24.0	340	7.7	17.5	--	5.7
28...	1306	30.0	319	7.8	16.5	--	6.0
28...	1307	36.0	251	7.8	16.0	--	6.5
28...	1308	42.0	241	7.8	16.0	--	6.5
28...	1309	48.0	284	7.8	16.0	--	6.3
28...	1310	54.0	283	7.8	15.5	--	6.2
28...	1311	60.0	274	7.8	15.5	--	6.2
28...	1312	66.0	261	7.8	15.5	--	6.3
28...	1313	72.0	257	7.8	15.5	--	6.2
28...	1314	80.0	241	7.8	15.0	--	6.3
28...	1315	86.0	258	7.7	15.0	--	6.1
28...	1316	92.0	273	7.7	14.5	--	5.8
28...	1317	98.0	286	7.7	14.5	--	5.8
28...	1318	102	326	7.6	13.5	--	5.0

07099350 PUEBLO RESERVOIR NEAR PUEBLO CO--Continued

WATER-QUALITY RECORDS

381548104453300 PUEBLO RESERVOIR SITE 6C--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (M)	OXYGEN, DIS- SOLVED (MG/L)
AUG							
11...	1325	--	--	--	--	3.2	--
11...	1326	0.0	316	8.4	24.0	--	E6.8
11...	1327	6.0	312	8.4	23.5	--	E6.8
11...	1328	12.0	311	8.4	23.5	--	E6.7
11...	1329	18.0	305	8.2	22.5	--	E6.3
11...	1330	24.0	295	8.0	21.5	--	E5.4
11...	1331	30.0	262	7.8	19.5	--	E4.8
11...	1332	36.0	258	7.7	19.0	--	E4.6
11...	1333	42.0	250	7.7	19.0	--	E4.4
11...	1334	48.0	253	7.7	18.5	--	E4.2
11...	1335	54.0	258	7.6	18.5	--	E3.9
11...	1336	60.0	242	7.7	18.0	--	E4.4
11...	1337	66.0	244	7.7	18.0	--	E4.4
11...	1338	72.0	247	7.7	17.5	--	E4.2
11...	1339	78.0	253	7.7	17.5	--	E4.0
11...	1340	84.0	247	7.7	17.5	--	E4.2
11...	1341	90.0	248	7.7	17.5	--	E3.0
11...	1342	96.0	250	7.7	17.0	--	E3.4
11...	1343	102	255	7.7	17.0	--	E2.9
11...	1344	106	255	7.6	17.0	--	E2.4
SEP							
28...	1320	--	--	--	--	1.5	--
28...	1321	0.0	315	8.3	19.5	--	7.0
28...	1322	6.0	317	8.2	19.0	--	6.4
28...	1323	12.0	317	8.1	18.5	--	5.8
28...	1324	18.0	317	8.1	18.5	--	5.6
28...	1325	24.0	318	8.1	18.5	--	5.4
28...	1326	30.0	318	8.1	18.5	--	5.4
28...	1327	36.0	318	8.0	18.5	--	5.3
28...	1328	42.0	318	8.0	18.5	--	5.1
28...	1329	48.0	317	8.0	18.5	--	5.0
28...	1330	54.0	317	8.0	18.5	--	5.1
28...	1331	60.0	318	8.0	18.5	--	4.9
28...	1332	66.0	320	8.0	18.5	--	4.9
28...	1333	72.0	330	8.0	18.5	--	4.8
28...	1334	78.0	328	8.0	18.5	--	4.6
28...	1335	84.0	341	8.0	18.0	--	4.6
28...	1336	90.0	346	8.1	17.5	--	5.0
28...	1337	96.0	363	8.1	17.0	--	5.5
28...	1338	100	371	8.2	17.0	--	5.7

E-Estimated.

ARKANSAS RIVER BASIN

07099350 PUEBLO RESERVOIR NEAR PUEBLO CO--Continued

WATER-QUALITY RECORDS

381602104435200 PUEBLO RESERVOIR SITE 7B

LOCATION.--Lat 38°16'02", long 104°43'52", in SW¹/4NE¹/4, sec.36, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, at approximate center of transect, approximately 0.3 mi downstream from Boggs Creek, and 0.4 mi upstream from Pueblo Dam.

PERIOD OF RECORD.--June 1988 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (M)	OXYGEN, DIS- SOLVED (MG/L)
MAY 1995							
16...	0930	--	--	--	--	6.4	--
16...	0931	0.0	502	8.4	14.0	--	8.7
16...	0932	3.0	502	8.4	13.5	--	8.7
16...	0933	6.0	502	8.4	13.5	--	8.8
16...	0934	9.0	501	8.4	13.5	--	8.8
16...	0935	12.0	502	8.4	13.0	--	8.8
16...	0936	15.0	502	8.3	13.0	--	8.8
16...	0937	18.0	503	8.3	13.0	--	8.8
16...	0938	21.0	503	8.3	13.0	--	8.8
16...	0939	24.0	503	8.3	13.0	--	8.7
16...	0940	27.0	502	8.3	12.5	--	8.7
16...	0941	30.0	502	8.3	12.0	--	8.7
16...	0942	33.0	502	8.3	12.0	--	8.6
16...	0943	36.0	501	8.3	11.5	--	8.6
16...	0944	39.0	502	8.2	11.5	--	8.5
16...	0945	42.0	501	8.2	11.5	--	8.5
16...	0946	45.0	501	8.2	11.5	--	8.5
16...	0947	48.0	501	8.2	11.0	--	8.5
16...	0948	51.0	501	8.2	11.0	--	8.5
16...	0949	54.0	502	8.2	11.0	--	8.5
16...	0950	57.0	503	8.2	11.0	--	8.5
16...	0951	60.0	503	8.2	11.0	--	8.4
16...	0952	63.0	505	8.2	11.0	--	8.4
16...	0953	66.0	506	8.2	10.5	--	8.4
16...	0954	69.0	508	8.2	10.5	--	8.4
16...	0955	72.0	510	8.2	10.0	--	8.3
16...	0956	75.0	510	8.2	10.0	--	8.3
16...	0957	78.0	510	8.2	10.0	--	8.2
16...	0958	81.0	511	8.2	9.5	--	8.2
16...	0959	84.0	511	8.2	9.5	--	8.2
16...	1000	87.0	511	8.2	9.5	--	8.2
16...	1001	90.0	511	8.2	9.5	--	8.2
16...	1002	93.0	512	8.1	9.5	--	8.2
16...	1003	96.0	512	8.1	9.5	--	8.1
16...	1004	99.0	512	8.1	9.0	--	8.0
16...	1005	102	513	8.1	9.0	--	7.8
16...	1006	105	512	8.1	9.0	--	7.6
16...	1007	108	513	8.1	9.0	--	7.6
16...	1008	111	513	8.1	9.0	--	7.6
16...	1009	114	514	8.1	9.0	--	7.6
16...	1010	117	513	8.1	9.0	--	7.6
JUN 1995							
28...	1020	--	--	--	--	1.5	--
28...	1021	0.0	369	8.4	20.5	--	8.1
28...	1022	3.0	368	8.4	20.5	--	8.1
28...	1023	6.0	367	8.4	20.5	--	8.1
28...	1024	9.0	368	8.3	20.5	--	8.0
28...	1025	12.0	368	8.3	20.0	--	8.0
28...	1026	15.0	371	8.2	20.0	--	7.5
28...	1027	18.0	377	7.9	18.0	--	6.1
28...	1028	21.0	377	7.7	17.5	--	5.9
28...	1029	24.0	379	7.7	17.5	--	5.9
28...	1030	27.0	380	7.7	17.0	--	6.0
28...	1031	30.0	380	7.7	17.0	--	6.0
28...	1032	33.0	380	7.7	17.0	--	6.1
28...	1033	36.0	374	7.8	16.5	--	6.3
28...	1034	39.0	374	7.8	16.5	--	6.4
28...	1035	42.0	379	7.8	16.5	--	6.4
28...	1036	45.0	377	7.8	16.5	--	6.4
28...	1037	48.0	370	7.8	16.5	--	6.4
28...	1038	51.0	369	7.8	16.0	--	6.4
28...	1039	54.0	356	7.8	16.0	--	6.4
28...	1040	57.0	345	7.7	16.0	--	6.4
28...	1041	60.0	322	7.7	16.0	--	6.4
28...	1042	63.0	306	7.7	16.0	--	5.7
28...	1043	66.0	295	7.7	15.5	--	5.5
28...	1044	69.0	267	7.7	15.5	--	5.9
28...	1045	72.0	271	7.7	15.5	--	6.0
28...	1046	75.0	269	7.7	15.5	--	6.0
28...	1047	78.0	256	7.7	15.0	--	6.1
28...	1048	81.0	249	7.7	15.0	--	6.0

07099350 PUEBLO RESERVOIR NEAR PUEBLO CO--Continued

WATER-QUALITY RECORDS

381602104435200 PUEBLO RESERVOIR SITE 7B--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (M)	OXYGEN, DIS- SOLVED (MG/L)
JUN 1995							
28...	1049	84.0	245	7.7	15.0	--	6.2
28...	1050	87.0	240	7.7	15.0	--	6.2
28...	1051	90.0	255	7.7	15.0	--	5.9
28...	1052	93.0	286	7.7	15.0	--	5.9
28...	1053	96.0	292	7.6	14.5	--	6.0
28...	1054	99.0	304	7.6	14.0	--	5.5
28...	1055	102	327	7.6	14.0	--	5.4
28...	1056	105	352	7.6	13.5	--	5.5
28...	1057	108	368	7.6	13.5	--	5.2
28...	1058	111	417	7.6	12.5	--	4.9
28...	1059	114	427	7.6	12.0	--	4.6
AUG							
11...	0955	--	--	--	--	3.4	--
11...	0956	0.0	318	8.4	23.0	--	E7.0
11...	0957	3.0	318	8.4	23.0	--	E7.0
11...	0958	6.0	317	8.4	23.0	--	E6.9
11...	0959	9.0	318	8.4	23.0	--	E6.9
11...	1000	12.0	318	8.4	23.0	--	E6.8
11...	1001	15.0	318	8.4	23.0	--	E6.8
11...	1002	18.0	318	8.4	23.0	--	E6.8
11...	1003	21.0	317	8.4	23.0	--	E6.7
11...	1004	24.0	315	8.3	23.0	--	E6.5
11...	1005	27.0	305	8.2	22.5	--	E5.9
11...	1006	30.0	282	7.9	21.0	--	E5.0
11...	1007	33.0	278	7.8	20.5	--	E4.7
11...	1008	36.0	255	7.8	19.5	--	E4.8
11...	1009	39.0	267	7.7	19.5	--	E3.9
11...	1010	42.0	266	7.7	19.0	--	E3.9
11...	1011	45.0	267	7.6	19.0	--	E3.8
11...	1012	48.0	262	7.6	18.5	--	E3.9
11...	1013	51.0	254	7.7	18.5	--	E4.2
11...	1014	54.0	257	7.7	18.5	--	E4.1
11...	1015	57.0	258	7.7	18.0	--	E4.0
11...	1016	60.0	256	7.7	18.0	--	E4.1
11...	1017	63.0	256	7.7	18.0	--	E4.1
11...	1018	66.0	260	7.7	18.0	--	E4.0
11...	1019	69.0	269	7.6	18.0	--	E3.8
11...	1020	72.0	270	7.6	18.0	--	E3.7
11...	1021	75.0	274	7.6	18.0	--	E3.6
11...	1022	78.0	279	7.6	17.5	--	E3.4
11...	1023	81.0	278	7.6	17.5	--	E3.4
11...	1024	84.0	265	7.6	17.5	--	E3.8
11...	1025	87.0	253	7.7	17.5	--	E4.2
11...	1026	90.0	252	7.7	17.5	--	E4.4
11...	1027	93.0	247	7.8	17.0	--	E4.4
11...	1028	96.0	245	7.8	17.0	--	E4.4
11...	1029	99.0	252	7.8	17.0	--	E4.2
11...	1030	102	253	7.8	17.0	--	E4.0
11...	1031	105	255	7.8	17.0	--	E3.8
11...	1032	108	254	7.8	16.5	--	E3.7
11...	1033	111	259	7.8	16.5	--	E3.3
11...	1034	114	264	7.8	16.0	--	E3.2
11...	1035	117	272	7.7	15.5	--	E2.5
11...	1036	120	280	7.7	15.5	--	E1.8
11...	1037	123	282	7.7	15.5	--	E1.4
SEP 1995							
28...	0950	--	--	--	--	1.8	--
28...	0951	0.0	315	8.0	18.5	--	6.2
28...	0952	3.0	315	8.0	18.5	--	6.2
28...	0953	6.0	315	8.0	18.5	--	5.9
28...	0954	9.0	316	8.0	18.5	--	5.8
28...	0955	12.0	316	8.0	18.5	--	5.9
28...	0956	15.0	316	8.0	18.5	--	6.0
28...	0957	18.0	316	8.0	18.5	--	6.1
28...	0958	21.0	316	8.0	18.5	--	6.1
28...	0959	24.0	316	8.0	18.5	--	5.6
28...	1000	27.0	316	8.0	18.5	--	5.7
28...	1001	30.0	316	8.0	18.5	--	5.7
28...	1002	33.0	316	8.0	18.5	--	5.7
28...	1003	36.0	316	8.0	18.5	--	5.6
28...	1004	39.0	316	8.0	18.5	--	5.6
28...	1005	42.0	316	8.0	18.5	--	5.4
28...	1006	45.0	316	8.0	18.5	--	5.4
28...	1007	48.0	316	8.0	18.5	--	5.3

E-Estimated.

ARKANSAS RIVER BASIN

07099350 PUEBLO RESERVOIR NEAR PUEBLO CO--Continued

WATER-QUALITY RECORDS

381602104435200 PUEBLO RESERVOIR SITE 7B--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TRANS- PAR- ENCY (SECCHI DISK) (M)	OXYGEN, DIS- SOLVED (MG/L)
SEP 1995							
28...	1008	51.0	316	8.0	18.5	--	5.2
28...	1009	54.0	316	8.0	18.5	--	5.3
28...	1010	57.0	316	8.0	18.5	--	5.2
28...	1011	60.0	316	8.0	18.5	--	5.3
28...	1012	63.0	317	8.0	18.5	--	5.3
28...	1013	66.0	316	8.0	18.5	--	5.3
28...	1014	69.0	317	8.0	18.5	--	5.3
28...	1015	72.0	317	8.0	18.5	--	5.3
28...	1016	75.0	317	8.0	18.5	--	5.2
28...	1017	78.0	321	8.0	18.5	--	4.7
28...	1018	81.0	326	7.9	18.5	--	3.8
28...	1019	84.0	333	7.9	18.0	--	3.4
28...	1020	87.0	335	7.9	18.0	--	3.2
28...	1021	90.0	341	7.9	18.0	--	3.6
28...	1022	93.0	348	7.9	17.5	--	4.0
28...	1023	96.0	353	8.0	17.5	--	4.4
28...	1024	99.0	354	8.0	17.5	--	4.4
28...	1025	102	356	8.0	17.5	--	4.5
28...	1026	105	357	7.9	17.5	--	4.4
28...	1027	108	359	7.9	17.5	--	4.4
28...	1028	111	365	7.9	17.0	--	4.5
28...	1029	114	367	8.0	17.0	--	4.8
28...	1030	117	370	8.0	17.0	--	4.6
28...	1031	120	376	8.0	16.5	--	5.0
28...	1032	123	382	8.1	16.5	--	5.3

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO

LOCATION.--Lat 38°16'18", long 104°43'03", in SE¹/4NE¹/4 sec.36, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on left bank 200 ft downstream from NE corner of Arkansas River bridge, 0.4 mi downstream from Pueblo Dam, and 7 mi west of Pueblo.

DRAINAGE AREA.--4,670 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Streamflow records, October 1965 to current year. Water-quality data available, October 1965 to September 1970, Dec. 1985 to current year. Sediment data available October 1965 to September 1970. Statistical summary computed for 1975 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,740 ft above sea level, from topographic map. Prior to Mar. 23, 1967, at site 730 ft upstream at datum 1.23 ft, higher. May 24, 1974 to Feb. 24, 1975, at site 1,500 ft downstream, at different datum. Since Feb. 25, 1975, at or within 50 ft of present location at present datum.

REMARKS.--Estimated daily discharges: Nov. 14-17. Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, diversions upstream from station for irrigation of about 88,000 acres and return flow from irrigated areas. Flow completely regulated by Pueblo Reservoir (station 07099350) since Jan. 9, 1974.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	484	346	419	114	77	305	460	734	2100	2640	2580	1030
2	272	338	418	114	78	272	446	736	2210	3650	2620	931
3	178	352	415	114	79	256	436	736	1750	4690	2500	871
4	182	380	415	115	79	256	435	742	1610	4970	2100	834
5	310	392	415	102	79	256	435	741	1870	5150	1720	848
6	515	392	413	94	79	222	448	741	2400	4570	1650	894
7	338	392	412	94	79	205	479	700	2960	3540	1490	868
8	305	392	413	94	80	207	487	689	3460	3450	1410	769
9	342	393	411	83	81	269	489	629	3700	3710	1520	794
10	364	393	410	73	82	241	507	520	3710	4560	1510	914
11	355	365	409	73	82	207	568	503	3470	5250	1400	1100
12	340	351	409	73	82	205	545	524	3110	5150	1400	1360
13	343	351	407	74	82	207	444	484	2950	5420	1400	1040
14	344	258	407	74	82	207	427	539	3200	5530	1430	944
15	344	104	407	73	81	261	468	723	3620	5520	1510	880
16	344	104	408	73	82	282	486	755	4340	5130	1540	825
17	376	104	409	74	96	255	486	609	4780	4910	1540	701
18	420	103	405	74	131	253	534	2480	4780	5140	1510	699
19	500	104	405	75	131	315	570	3690	4790	4440	1460	692
20	528	105	406	76	131	355	607	2010	4950	4350	1390	692
21	453	106	408	76	131	349	698	1260	5270	4810	1330	650
22	386	107	190	76	147	339	864	1360	5390	4910	1310	564
23	386	107	112	76	182	340	910	1490	5170	4420	1440	486
24	396	107	112	76	205	356	844	1620	4690	3510	1670	431
25	414	107	112	76	216	364	718	2130	4680	2940	1800	385
26	411	107	112	77	219	346	695	2600	4930	2600	2110	369
27	408	107	113	77	238	358	604	2700	5310	2520	2190	395
28	408	168	114	77	292	379	664	2200	4770	2470	1970	446
29	378	448	114	77	---	418	713	1600	2620	2470	1800	468
30	363	419	114	77	---	437	734	1040	2250	2480	1590	468
31	364	---	114	77	---	455	---	1380	---	2510	1290	---
TOTAL	11551	7502	9828	2578	3403	9177	17201	38665	110840	127410	52180	22348
MEAN	373	250	317	83.2	122	296	573	1247	3695	4110	1683	745
MAX	528	448	419	115	292	455	910	3690	5390	5530	2620	1360
MIN	178	103	112	73	77	205	427	484	1610	2470	1290	369
AC-FT	22910	14880	19490	5110	6750	18200	34120	76690	219900	252700	103500	44330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	367	250	158	182	223	290	559	1155	2404	1754	1058	478										
MAX	1103	505	553	558	837	718	1389	2564	4219	4110	2716	1040										
(WY)	1985	1985	1987	1985	1985	1985	1985	1984	1980	1995	1984	1982										
MIN	121	77.0	58.8	55.6	55.9	81.1	125	374	645	428	200	118										
(WY)	1979	1979	1980	1980	1979	1978	1978	1978	1977	1977	1977	1977										

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1975 - 1995	
ANNUAL TOTAL	271296		412683			
ANNUAL MEAN	743		1131		a 742	
HIGHEST ANNUAL MEAN					1227	
LOWEST ANNUAL MEAN					265	
HIGHEST DAILY MEAN	5000		5530		b 5640	
LOWEST DAILY MEAN	c 103		d 73		e 47	
ANNUAL SEVEN-DAY MINIMUM	104		73		f 49	
INSTANTANEOUS PEAK FLOW			5620		g 10100	
INSTANTANEOUS PEAK STAGE			7.10		g 40	
ANNUAL RUNOFF (AC-FT)	538100		818600		537300	
10 PERCENT EXCEEDS	1920		3630		1910	
50 PERCENT EXCEEDS	412		437		388	
90 PERCENT EXCEEDS	107		82		89	

a-Average discharge for 8 years (water years 1966-73), 643 ft³/s; 465900 acre-ft/yr, prior to completion of Pueblo Dam.

b-Also the maximum daily discharge for period of record.

c-Also occurred Nov 18.

d-Also occurred Jan 11-12 and Jan 15-16.

e-Minimum daily discharge for period of record, 28 ft³/s, May 11, 1967.

f-Present site and datum, from rating curve extended above 1600 ft³/s, on basis of slope-area measurement of peak flow.

g-From floodmarks.

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1985 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1985 to current year.

WATER TEMPERATURE: December 1985 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for daily specific conductance are good except Nov. 14 to Dec 1, Jan. 9-11, April 14, 18, 24-25, and Sept. 14-15, which are poor. Records for daily water temperature are good except May 12 to Sept 14, which are poor. Daily data not published is either missing or of unacceptable quality. Specific conductance data may not be representative of the river at the site during periods of transient hydrologic conditions caused by abrupt flow changes from Pueblo Reservoir.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 814 microsiemens, Nov. 14, 1990; minimum, 223 microsiemens, July 13, 1986.

WATER TEMPERATURE: Maximum, 23.1°C, Aug. 13, 15, 17, 1994; minimum, 1.1°C, Jan. 30, 1995.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 588 microsiemens, Jan. 12; minimum, 238 microsiemens, July 23.

WATER TEMPERATURE: Maximum, 19.0°C, Sept. 17, Sept. 20; minimum, 1.1°C, Jan. 30.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	486	471	477	519	513	516	529	509	523	558	534	543
2	---	---	---	519	514	516	529	525	527	549	531	540
3	---	---	---	520	516	518	529	525	527	547	528	539
4	---	---	---	520	512	517	529	525	527	536	526	532
5	---	---	---	521	516	519	529	524	525	555	533	543
6	---	---	---	521	516	519	529	522	524	545	535	539
7	---	---	---	521	517	519	528	522	525	544	533	539
8	---	---	---	522	518	520	526	522	523	540	524	536
9	---	---	---	522	519	520	529	522	525	---	---	---
10	---	---	---	522	517	520	529	522	525	---	---	---
11	---	---	---	523	519	520	530	513	524	---	---	---
12	---	---	---	522	519	521	521	509	516	588	540	566
13	---	---	---	523	519	521	524	510	515	585	537	550
14	---	---	---	548	519	529	522	509	515	578	534	554
15	---	---	---	542	510	533	521	510	516	557	534	546
16	---	---	---	540	529	534	520	511	515	553	524	536
17	---	---	---	535	526	533	523	511	517	527	520	524
18	---	---	---	539	507	526	524	510	515	527	518	523
19	---	---	---	540	503	529	519	510	513	531	520	524
20	---	---	---	541	522	528	519	508	511	531	521	526
21	---	---	---	537	517	526	520	502	513	533	520	526
22	521	512	515	538	516	524	549	516	530	529	520	525
23	517	509	513	537	510	520	531	522	526	532	520	526
24	517	511	514	533	507	520	526	520	523	530	521	526
25	515	511	513	556	515	524	527	518	522	535	521	526
26	517	511	513	542	507	522	526	519	522	535	524	528
27	516	510	513	544	515	525	525	513	520	540	522	528
28	515	511	513	536	515	525	528	516	521	533	521	525
29	518	512	514	527	501	513	560	517	534	527	521	523
30	515	511	513	523	506	516	569	539	551	528	519	523
31	518	511	515	---	---	---	568	541	553	523	519	521
MONTH	---	---	---	556	501	522	569	502	523	---	---	---

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	524	518	521	509	503	506	509	506	507	511	504	507
2	524	519	521	510	503	507	508	505	507	509	504	507
3	521	515	518	510	504	508	509	504	507	509	503	506
4	523	518	520	509	503	506	512	504	509	510	503	507
5	520	516	518	508	503	506	512	508	510	511	500	505
6	520	516	518	510	505	508	512	508	510	506	500	502
7	520	516	518	509	505	507	511	507	509	506	502	503
8	522	517	519	508	503	506	510	507	509	506	500	503
9	522	517	519	506	500	503	510	507	509	506	500	503
10	520	514	517	511	502	506	508	502	506	506	502	504
11	519	513	516	509	505	507	507	500	503	506	502	504
12	522	514	518	508	505	506	509	501	505	513	502	507
13	520	512	517	507	504	506	510	503	508	515	508	512
14	520	514	517	512	505	508	508	501	506	515	507	511
15	517	512	514	512	506	509	---	---	---	510	505	508
16	518	513	516	511	507	509	---	---	---	511	506	509
17	530	509	513	512	508	510	---	---	---	560	502	525
18	512	510	511	511	506	510	504	501	503	537	496	509
19	511	509	510	509	506	507	505	501	503	504	496	500
20	511	508	510	509	505	507	504	501	502	510	501	505
21	511	508	510	510	506	508	525	501	505	511	505	508
22	511	506	509	509	505	507	505	499	502	512	507	509
23	509	504	506	509	505	508	508	500	503	516	508	510
24	507	504	506	510	505	507	507	504	505	515	508	512
25	507	504	505	---	---	---	516	508	511	515	505	511
26	507	504	506	511	507	509	529	511	515	518	507	513
27	507	502	505	509	505	507	525	509	515	518	508	511
28	504	501	503	508	505	506	513	505	509	511	487	502
29	---	---	---	507	503	505	511	495	507	509	482	499
30	---	---	---	508	503	505	511	505	508	509	468	490
31	---	---	---	508	502	506	---	---	---	501	477	491
MONTH	530	501	514	---	---	---	---	---	---	560	468	506
	JUNE			JULY			AUGUST			SEPTEMBER		
1	492	472	479	299	290	295	257	243	252	274	267	270
2	488	470	478	300	275	283	257	248	252	271	269	270
3	490	462	478	291	270	279	254	246	250	276	269	272
4	494	456	475	286	270	276	261	246	253	274	270	272
5	490	455	471	279	272	276	264	251	257	275	272	273
6	477	457	464	280	271	275	260	253	256	275	271	273
7	479	443	458	278	269	272	261	252	257	275	272	273
8	464	448	457	275	269	271	259	251	256	277	273	274
9	464	447	456	274	268	271	264	256	259	277	274	275
10	456	440	445	277	268	273	265	257	260	278	275	277
11	460	444	452	281	270	276	263	255	259	280	275	276
12	456	441	449	290	275	282	266	253	259	282	277	279
13	453	439	445	301	274	287	264	258	261	283	280	281
14	454	441	448	298	280	290	264	257	260	---	---	---
15	450	440	445	299	289	294	261	257	259	---	---	---
16	446	436	440	298	286	293	262	258	259	330	309	316
17	441	429	434	293	273	284	260	256	259	326	319	323
18	434	417	427	281	268	274	263	255	260	329	317	323
19	428	399	417	275	251	264	262	258	261	327	312	321
20	413	337	372	265	252	259	261	258	260	330	322	326
21	369	333	352	270	249	260	262	259	260	338	329	335
22	369	332	348	267	246	259	262	259	260	342	329	336
23	369	322	339	263	238	250	262	258	260	336	325	330
24	343	315	330	261	247	253	265	260	262	340	328	334
25	343	322	332	254	247	250	261	259	260	355	337	345
26	328	287	311	253	250	251	262	259	260	364	354	357
27	317	288	305	252	243	247	262	260	261	372	364	368
28	318	286	296	251	241	244	263	261	262	375	369	372
29	324	283	302	250	242	247	265	262	264	376	367	373
30	322	289	304	253	242	248	266	264	265	380	368	378
31	---	---	---	254	242	248	270	264	267	---	---	---
MONTH	494	283	407	301	238	269	270	243	259	---	---	---

07099969 ARKANSAS RIVER AT ST CHARLES MESA DIVERSION AT PUEBLO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°15'13", long 104°36'20", in SW¹/4NW¹/4 sec.6, T.21 S., R.64 W., Pueblo County, Hydrologic Unit 11020002, on right bank 10 ft upstream from intake of Saint Charles Mesa Water Association, 150 ft downstream from Santa Fe Avenue bridge, and 1.1 mi upstream from Fountain Creek.

DRAINAGE AREA.--4,778 mi².

PERIOD OF RECORD.--October 1988 to current year. Prior to October 1989, published as Arkansas River at Moffat Street at Pueblo (07099970).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1988 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Records good. Daily data not published is either missing or of poor quality. Specific conductance data is not representative of the cross section at the site. Specific conductance data representative of the cross section at the site is published as Arkansas River at Moffat Street at Pueblo (07099970) for water year 1991.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,980 microsiemens, Nov. 24, 1988; minimum, 225 microsiemens, Aug 25, 1995.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1220 microsiemens, Jan 18; minimum, 225 microsiemens, Aug 25.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	646	594	614	709	685	699	694	667	682	836	793	821
2	810	619	683	720	675	701	697	669	681	833	765	800
3	825	705	756	722	645	696	688	663	678	832	775	803
4	825	548	713	712	665	692	696	659	679	833	780	812
5	1130	602	821	703	670	690	693	666	677	850	787	817
6	725	576	637	703	680	691	694	662	677	862	808	840
7	692	639	662	710	677	691	692	662	676	930	829	860
8	724	630	678	707	685	694	692	662	676	919	831	855
9	702	628	674	704	667	690	734	668	690	840	809	820
10	696	646	675	711	670	690	692	668	679	897	836	871
11	704	628	673	725	683	699	689	672	679	---	---	---
12	707	651	681	725	675	703	688	660	675	---	---	---
13	692	640	672	720	681	701	687	656	673	---	---	---
14	696	624	666	784	684	708	685	659	675	---	---	---
15	687	639	666	875	784	839	687	657	674	1020	909	922
16	690	632	671	907	836	875	687	649	672	970	898	933
17	699	447	629	975	852	899	687	657	670	1030	932	985
18	693	652	674	894	846	866	683	647	668	1220	909	1000
19	674	628	655	928	814	882	691	654	673	1060	911	977
20	667	635	651	925	605	837	680	655	668	935	879	905
21	701	643	661	860	812	832	683	655	666	1030	858	899
22	709	639	678	865	839	851	819	663	726	962	843	891
23	709	656	684	873	844	859	835	815	825	914	867	897
24	709	657	683	906	853	870	829	794	817	916	857	897
25	699	660	676	880	851	865	820	803	813	920	867	889
26	698	654	677	924	844	874	815	798	810	927	827	882
27	701	655	681	1000	856	910	811	803	807	910	825	869
28	713	666	688	955	855	888	818	765	803	907	791	861
29	701	658	681	875	658	692	821	797	809	919	877	892
30	736	634	689	689	669	679	822	780	807	918	871	893
31	709	673	689	---	---	---	808	777	789	902	850	872
MONTH	1130	447	679	1000	605	775	835	647	716	---	---	---

07099969 ARKANSAS RIVER AT ST CHARLES MESA DIVERSION AT PUEBLO, CO--continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	886	845	861	710	666	682	661	632	645	633	595	617
2	943	811	856	814	677	714	658	637	647	633	612	625
3	903	810	839	723	699	713	660	629	649	636	604	620
4	908	811	852	745	701	717	666	634	654	632	594	616
5	1040	793	876	718	699	707	674	647	664	641	603	622
6	924	818	841	753	678	712	675	632	657	629	597	616
7	895	791	836	735	706	726	668	630	654	636	609	623
8	899	800	835	747	719	731	663	634	651	640	617	628
9	890	810	840	759	686	720	668	612	645	654	622	635
10	856	797	818	782	689	722	650	610	629	682	635	650
11	819	765	794	780	710	741	640	604	622	690	642	666
12	924	763	826	782	722	754	645	599	620	679	648	666
13	860	763	808	761	719	738	673	644	654	690	650	667
14	---	---	---	771	717	736	680	647	665	691	630	662
15	---	---	---	754	678	715	681	631	655	640	601	620
16	---	---	---	730	651	695	660	615	641	667	503	610
17	893	775	832	755	690	712	687	486	618	870	324	558
18	862	749	810	737	708	724	661	582	633	931	539	675
19	831	781	797	729	668	696	652	582	622	549	540	545
20	840	765	799	693	655	673	639	600	623	613	544	582
21	844	796	812	691	658	672	653	465	553	614	600	606
22	832	762	804	698	665	679	635	551	594	612	584	600
23	836	738	768	695	651	671	609	574	596	596	582	589
24	770	724	741	691	661	674	627	581	600	595	575	584
25	758	707	729	684	652	671	635	597	620	591	460	563
26	771	703	719	691	657	673	642	486	604	567	512	558
27	754	689	710	720	641	674	662	620	641	572	468	551
28	700	670	682	681	534	634	654	614	634	580	538	562
29	---	---	---	683	613	660	645	604	621	613	509	577
30	---	---	---	658	635	648	632	604	619	733	562	621
31	---	---	---	662	632	650	---	---	---	613	559	592
MONTH	---	---	---	814	534	698	687	465	631	931	324	610
	JUNE			JULY			AUGUST			SEPTEMBER		
1	569	524	545	369	336	353	320	308	314	434	388	409
2	545	525	535	360	305	329	321	305	312	448	417	427
3	578	291	525	335	304	314	322	305	312	507	396	429
4	588	545	567	331	316	321	340	286	319	447	428	437
5	580	520	547	324	314	320	343	326	332	447	419	433
6	544	505	524	344	316	323	341	327	334	440	412	430
7	524	490	506	335	324	329	361	332	344	455	416	440
8	509	496	502	333	324	329	364	335	351	459	253	433
9	507	490	501	330	318	324	354	337	344	527	387	459
10	505	487	495	326	312	318	363	334	348	487	407	449
11	510	493	500	325	312	319	363	340	354	450	385	423
12	507	495	501	331	319	325	366	345	356	415	365	382
13	509	492	499	336	306	326	363	346	354	447	407	424
14	508	486	498	336	321	329	387	343	358	487	426	455
15	500	482	491	373	259	331	358	341	350	506	467	486
16	497	473	481	347	326	336	354	343	349	523	473	492
17	505	413	471	340	257	322	354	339	346	527	496	513
18	476	455	466	328	309	314	366	341	349	521	491	503
19	468	439	457	334	282	308	370	289	354	521	493	510
20	444	371	409	385	287	302	372	350	361	564	482	503
21	396	371	382	313	285	299	376	360	368	536	435	515
22	394	362	377	304	284	296	413	360	374	530	514	523
23	389	352	368	308	275	289	372	345	360	523	489	508
24	375	338	360	314	292	302	356	333	343	536	494	515
25	373	351	361	319	297	306	359	225	326	563	521	538
26	359	320	342	318	306	312	342	326	331	570	544	558
27	342	315	329	315	302	308	335	328	332	571	543	558
28	385	307	328	313	298	307	347	332	338	568	527	551
29	385	319	357	316	306	310	353	341	347	561	533	544
30	470	338	373	319	303	310	367	344	356	553	531	541
31	---	---	---	323	304	312	406	354	377	---	---	---
MONTH	588	291	453	385	257	317	413	225	345	571	253	480

ARKANSAS RIVER BASIN

07099970 ARKANSAS RIVER AT MOFFAT STREET, AT PUEBLO, CO

LOCATION.--Lat 38°15'13", long 104°36'20", in SW¹/4NW¹/4 sec.6, T.21 S., R.64 W., Pueblo County, Hydrologic Unit 11020002, on right bank 10 ft upstream from intake of Saint Charles Mesa Water Association, 150 ft downstream from Santa Fe Avenue bridge, and 1.1 mi upstream from Fountain Creek.

DRAINAGE AREA.--4,778 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1988 to current year.

REVISED RECORDS: WDR CO-90-1: 1989(M).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 4,653 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 17. Records good except for estimated daily discharges, which are poor. Records do not include diversion for municipal supply of Saint Charles Mesa Water Association. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, and diversions for irrigation and municipal use. Flow almost completely regulated by Pueblo Reservoir.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	445	310	359	69	30	239	390	699	1980	2790	2620	959
2	269	296	372	70	30	231	388	696	2160	3760	2680	855
3	95	311	361	70	30	192	371	696	1940	4930	2550	814
4	258	335	358	69	30	191	368	698	1540	5140	2140	767
5	225	338	361	70	30	188	357	694	1750	5300	1680	770
6	470	332	357	51	30	182	363	722	2290	4860	1600	814
7	310	332	353	47	30	150	393	718	2950	3860	1420	821
8	259	335	355	50	30	147	405	689	3540	3760	1290	760
9	275	336	358	55	31	184	430	640	3800	4000	1440	760
10	304	337	354	35	31	188	461	523	3840	4710	1440	883
11	299	312	353	31	31	143	513	485	3580	5350	1310	1040
12	279	285	354	30	31	143	507	511	3170	5290	1310	1310
13	285	283	355	30	31	139	398	476	2950	5520	1310	1010
14	287	239	355	30	31	134	372	501	3190	5600	1330	896
15	298	63	358	30	31	169	406	701	3660	5630	1400	830
16	292	53	358	30	31	207	433	734	4300	5370	1420	787
17	338	50	355	30	40	187	464	892	4820	5100	1420	646
18	358	45	359	30	78	167	489	2220	4840	5300	1400	638
19	436	40	352	30	79	228	539	3860	4830	4770	1410	649
20	480	67	349	30	76	266	562	2150	4970	4620	1310	657
21	421	56	352	30	75	272	700	1160	5220	5000	1220	633
22	326	55	199	30	76	265	841	1230	5360	5100	1190	547
23	323	54	73	30	105	256	868	1390	5240	4730	1320	472
24	329	52	71	30	130	272	809	1500	4850	3850	1550	414
25	359	54	71	30	149	274	688	2030	4840	3180	1760	356
26	357	54	70	30	148	268	696	2590	5010	2700	2050	324
27	367	53	71	30	147	272	575	2740	5330	2590	2160	339
28	340	53	72	30	206	320	630	2190	5030	2530	1930	388
29	338	379	70	30	---	337	682	1550	2790	2540	1720	420
30	326	352	70	30	---	363	705	986	2370	2540	1510	423
31	322	---	71	30	---	377	---	1250	---	2570	1210	---
TOTAL	10070	5861	8326	1217	1797	6951	15803	37921	112140	132990	50100	20982
MEAN	325	195	269	39.3	64.2	224	527	1223	3738	4290	1616	699
MAX	480	379	372	70	206	377	868	3860	5360	5630	2680	1310
MIN	95	40	70	30	30	134	357	476	1540	2530	1190	324
AC-FT	19970	11630	16510	2410	3560	13790	31350	75220	222400	263800	99370	41620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995
MEAN	229	171	78.1	81.8	135	227	456
MAX	375	265	269	161	178	409	658
(WY)	1991	1991	1995	1991	1990	1989	1994
MIN	125	87.9	16.1	16.7	64.2	159	217
(WY)	1990	1989	1990	1989	1995	1990	1991

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1989 - 1995
ANNUAL TOTAL	248723	404158	
ANNUAL MEAN	681	1107	647
HIGHEST ANNUAL MEAN			1107
LOWEST ANNUAL MEAN			444
HIGHEST DAILY MEAN	5140	5630	5630
LOWEST DAILY MEAN	36	30	3.6
ANNUAL SEVEN-DAY MINIMUM	39	30	8.2
INSTANTANEOUS PEAK FLOW		6210	^a 10400
INSTANTANEOUS PEAK STAGE		12.75	14.18
ANNUAL RUNOFF (AC-FT)	493300	801600	468400
10 PERCENT EXCEEDS	1900	3820	1710
50 PERCENT EXCEEDS	355	372	295
90 PERCENT EXCEEDS	56	31	38

a-From rating curve extended above 3900 ft³/s.

07099970 ARKANSAS RIVER AT MOFFAT STREET, AT PUEBLO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1988 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1988 to current year.
 WATER TEMPERATURE: October 1988 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Records for water temperature and specific conductance are good. Daily data not published are either during periods of estimated daily discharge, or are missing or unrepresentative of the river for the day. Specific conductance data computed by using discharge-related coefficients, the discharge record at the site, and the daily mean specific conductance from Arkansas River at St Charles Mesa Diversion at Pueblo (07099969). Prior to October 1989, published specific conductance data was not representative of the cross section at the site.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily mean, 1,140 microsiemens, Dec. 31, 1989; minimum daily mean, 252 microsiemens, June 29, 1993.
 WATER TEMPERATURE: Maximum, 26.3°C, Aug. 31, 1990; minimum, 0.0°C, on many days during winter.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily mean, 846 microsiemens, Nov. 27, minimum daily mean, 273 microsiemens, July 28.
 WATER TEMPERATURE: Maximum, 22.2°C, Sept. 3; minimum, 0.4°C, Jan. 4, 5, 22, 27.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	522	608	587	755	---	600	555	506	469	321	283	323
2	---	610	586	736	---	---	556	512	465	316	281	342
3	688	606	583	739	---	635	558	508	---	314	278	---
4	---	602	584	747	---	638	562	505	465	324	---	354
5	---	600	582	752	---	629	571	510	459	323	276	351
6	---	601	582	781	---	634	565	505	461	323	274	344
7	576	601	581	808	---	646	562	511	466	316	275	352
8	590	604	581	795	---	651	560	515	477	316	277	---
9	586	600	593	763	---	641	555	527	481	314	275	---
10	587	600	584	827	---	643	535	552	475	315	278	359
11	586	608	584	---	---	667	529	566	475	322	280	330
12	592	612	580	---	---	679	527	566	466	328	281	302
13	585	610	579	---	---	664	562	567	459	333	280	331
14	579	---	580	---	---	662	572	563	463	336	283	364
15	579	780	580	---	---	636	563	508	466	---	280	389
16	584	814	578	---	---	612	551	---	471	339	279	399
17	---	836	576	---	---	634	---	---	---	---	277	426
18	580	814	574	---	745	644	538	---	466	317	279	417
19	563	---	579	---	733	612	529	523	457	305	---	423
20	553	---	574	---	735	586	530	506	409	---	285	---
21	568	774	573	---	747	585	---	467	386	299	287	---
22	590	791	---	---	740	591	475	468	381	296	---	445
23	595	799	759	---	699	584	477	471	372	286	284	432
24	594	809	752	---	667	586	486	473	360	290	281	443
25	581	804	748	---	649	584	508	484	361	285	---	463
26	582	813	745	---	640	586	---	502	342	281	285	485
27	586	846	742	---	639	586	545	---	332	277	289	485
28	599	826	739	---	600	---	533	489	---	273	287	474
29	592	---	744	---	---	574	509	---	---	276	288	468
30	599	584	742	---	---	557	508	---	---	276	288	465
31	599	---	726	---	---	559	---	462	---	281	294	---

07099970 ARKANSAS RIVER AT MOFFAT STREET, AT PUEBLO, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.7	17.4	18.6	13.4	10.9	12.0	8.4	5.4	6.7	3.7	.6	1.8
2	20.8	16.2	18.0	13.0	10.8	11.8	7.7	5.0	6.3	3.2	1.0	2.0
3	19.4	14.9	17.2	11.4	10.2	10.6	7.8	4.9	6.2	3.2	.8	1.7
4	19.4	7.8	16.0	12.5	10.0	11.0	7.8	5.7	6.6	2.2	.4	1.1
5	19.3	12.3	15.9	13.1	10.0	11.3	6.2	5.6	5.8	2.7	.4	1.5
6	18.5	15.1	16.5	12.3	9.6	11.0	6.3	5.2	5.7	5.0	1.9	3.0
7	18.5	15.0	16.4	13.7	9.6	11.5	7.4	4.7	5.9	4.7	.5	2.4
8	18.8	15.0	16.6	11.1	9.6	10.1	5.6	4.0	4.8	6.7	2.4	4.0
9	18.9	13.8	16.3	12.0	9.4	10.5	5.8	3.0	4.3	5.7	2.4	3.9
10	19.1	14.1	16.4	12.1	8.5	10.2	5.6	2.8	4.0	7.1	2.7	4.5
11	18.9	14.0	16.4	12.1	8.9	10.5	5.7	3.4	4.4	---	2.6	---
12	18.4	13.9	16.1	12.6	9.6	10.8	5.9	3.4	4.5	---	---	---
13	17.9	13.7	15.7	11.6	8.8	10.0	5.8	3.3	4.5	---	---	---
14	16.4	13.4	14.8	9.5	8.1	8.9	5.6	3.4	4.4	---	---	---
15	17.1	13.5	15.1	10.6	7.0	8.4	5.4	2.8	4.0	5.7	3.0	4.0
16	17.2	13.5	15.2	9.8	6.0	7.8	5.7	2.9	4.2	6.7	1.3	3.5
17	16.9	13.0	14.9	8.4	5.2	7.2	5.8	3.4	4.4	6.7	1.3	3.6
18	16.7	12.9	14.6	8.4	3.7	5.6	5.9	2.9	4.2	6.2	1.9	3.9
19	17.2	13.6	15.1	8.8	4.0	5.9	5.2	3.1	4.0	6.6	2.9	4.3
20	16.9	13.1	14.6	7.5	2.8	5.1	5.4	2.4	3.8	3.5	.8	2.1
21	16.5	12.8	14.4	7.4	5.6	6.4	5.5	2.5	3.9	4.1	.5	1.8
22	15.8	12.3	14.0	6.9	4.8	6.2	6.0	2.6	4.1	4.4	.4	1.9
23	16.2	12.1	14.0	8.1	3.4	5.4	5.1	2.5	3.9	3.4	.7	2.0
24	14.7	12.0	13.3	8.4	3.0	5.5	6.3	3.0	4.5	5.0	1.0	2.7
25	15.3	11.3	13.2	8.7	4.0	6.1	6.2	2.5	4.2	5.0	.6	2.4
26	15.6	11.3	13.3	9.1	4.8	6.6	6.8	3.4	4.7	3.3	.5	1.5
27	14.9	11.6	13.1	5.9	2.7	4.3	5.8	2.3	3.9	4.7	.4	2.0
28	15.2	12.0	13.4	4.9	1.3	2.8	5.3	1.9	3.5	4.6	.7	2.4
29	14.2	11.5	12.7	6.3	2.0	4.5	4.1	1.8	3.1	5.4	1.7	3.2
30	12.7	10.9	11.8	8.1	4.0	6.2	4.0	3.2	3.5	6.1	3.5	4.5
31	14.1	10.8	12.3	---	---	---	3.2	1.5	2.4	6.1	3.5	4.6
MONTH	20.8	7.8	15.0	13.7	1.3	8.1	8.4	1.5	4.5	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.7	2.8	3.7	4.7	1.7	2.9	12.2	5.6	8.5	13.2	8.1	10.1
2	6.0	1.4	3.1	5.7	1.5	3.3	11.5	5.8	8.3	12.8	8.0	10.1
3	7.0	1.7	4.0	7.4	1.3	4.4	12.7	6.3	8.9	13.3	8.7	10.4
4	8.9	3.1	5.4	8.8	3.1	5.8	13.0	6.0	9.1	13.6	8.5	10.6
5	9.6	3.8	5.9	8.2	4.0	5.9	12.8	6.3	9.2	12.2	8.6	10.1
6	8.3	2.7	5.0	5.6	3.8	4.7	12.8	6.6	9.3	13.5	8.7	10.7
7	8.9	2.3	5.0	8.1	2.4	5.1	12.8	6.7	9.2	12.9	8.8	10.5
8	7.7	2.6	4.9	6.5	2.1	4.7	13.2	6.8	9.5	12.6	8.8	10.3
9	8.1	1.8	4.6	9.7	2.7	6.2	8.0	5.7	6.9	13.3	8.5	10.5
10	6.1	2.9	4.2	10.9	4.0	7.4	9.0	5.0	6.9	15.5	8.7	11.6
11	5.3	1.4	3.4	10.2	4.9	7.9	11.0	5.7	7.9	15.2	9.0	11.8
12	8.0	1.7	4.3	10.3	5.3	7.8	12.4	6.0	8.8	15.0	9.1	11.5
13	7.4	2.2	4.1	11.0	4.3	7.7	11.5	6.5	8.8	15.6	9.3	12.1
14	---	---	---	11.2	4.1	7.8	12.9	6.8	9.6	15.8	9.3	12.1
15	---	---	---	10.8	4.3	7.8	11.4	7.3	9.2	16.1	9.9	12.3
16	---	---	---	10.8	4.8	7.9	13.5	7.6	9.9	15.3	10.1	12.1
17	6.8	1.4	4.1	10.5	5.2	8.0	8.5	6.4	7.6	11.3	9.4	10.2
18	8.4	2.6	5.1	11.4	5.1	8.4	12.9	6.8	9.3	13.4	8.9	10.9
19	8.5	3.0	5.8	11.2	5.4	8.1	8.3	7.1	7.7	12.5	10.5	11.3
20	9.6	3.9	6.6	11.0	5.1	7.9	12.6	7.0	9.1	13.6	10.8	11.9
21	9.5	3.8	6.6	11.2	5.4	8.1	8.1	6.0	7.1	14.6	10.9	12.2
22	9.4	4.4	6.8	11.5	6.2	8.6	9.1	7.0	7.9	13.8	10.8	11.8
23	8.8	3.4	6.2	11.8	5.5	8.5	11.7	7.3	8.8	11.6	10.5	11.0
24	9.0	3.0	6.2	12.0	6.6	8.9	12.4	7.6	9.5	11.5	10.6	11.0
25	9.3	3.0	6.5	10.1	6.2	7.8	12.8	7.4	9.6	11.4	10.6	11.0
26	9.5	4.3	6.8	8.5	5.7	7.1	10.4	6.9	8.5	13.1	11.0	11.8
27	9.2	3.9	6.5	11.2	5.3	7.9	13.2	7.8	10.0	13.1	10.9	11.8
28	5.6	2.6	3.7	8.8	4.0	6.3	12.7	8.1	10.0	12.9	11.0	11.7
29	---	---	---	8.0	5.5	6.5	10.9	8.5	9.5	12.6	11.1	11.7
30	---	---	---	10.3	5.6	7.5	12.2	8.6	9.9	15.8	10.9	12.7
31	---	---	---	11.7	5.0	7.9	---	---	---	14.6	11.0	12.4
MONTH	---	---	---	12.0	1.3	6.9	13.5	5.0	8.8	16.1	8.0	11.3

07099970 ARKANSAS RIVER AT MOFFAT STREET, AT PUEBLO, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	11.0	12.2	16.9	14.9	15.5	18.9	16.5	17.4	21.8	17.7	19.3
2	13.5	11.4	12.3	16.4	14.8	15.3	19.1	16.6	17.5	21.9	17.6	19.2
3	14.0	8.9	11.7	15.6	14.6	15.0	18.9	16.7	17.5	22.2	17.6	19.4
4	14.4	11.5	12.5	16.1	14.5	15.0	21.2	16.6	17.7	21.7	17.7	19.4
5	14.3	11.2	12.6	16.3	14.7	15.3	19.7	16.6	17.7	22.1	17.6	19.4
6	14.3	11.6	12.6	16.3	14.7	15.3	19.9	16.5	17.8	21.7	17.5	19.0
7	14.1	11.6	12.5	16.6	14.6	15.3	20.2	16.6	17.9	18.6	17.6	18.1
8	12.5	12.0	12.2	16.6	14.6	15.4	19.9	16.6	18.0	20.2	17.6	18.7
9	13.9	12.0	12.7	16.5	14.7	15.4	18.2	16.7	17.4	19.5	17.6	18.4
10	13.4	11.9	12.4	16.5	14.7	15.5	20.2	16.9	18.1	21.1	17.6	19.0
11	14.4	12.2	13.0	16.7	15.0	15.7	20.4	16.9	18.1	20.8	17.3	18.8
12	14.6	12.2	13.1	16.8	15.2	15.8	20.3	17.2	18.2	21.0	17.9	19.0
13	14.8	12.2	13.3	17.1	15.1	16.0	20.2	17.1	18.2	21.5	17.7	19.1
14	15.0	12.4	13.4	16.8	15.3	16.0	19.4	17.0	17.8	21.4	17.7	19.1
15	14.5	12.4	13.2	18.3	15.8	16.4	20.4	17.0	18.2	21.4	17.5	19.1
16	14.4	12.7	13.4	17.5	15.9	16.4	20.4	16.9	18.2	21.0	17.7	19.0
17	14.7	13.0	13.7	18.6	16.0	16.6	20.4	17.2	18.4	21.8	17.3	19.1
18	15.6	13.3	14.3	17.3	16.1	16.6	20.6	17.2	18.5	20.2	17.5	18.7
19	15.6	13.5	14.4	17.7	16.3	16.8	20.2	17.5	18.6	19.2	17.5	18.1
20	15.9	14.0	14.7	17.7	16.2	16.9	20.9	17.3	18.6	20.3	15.5	18.1
21	15.7	14.1	14.7	17.7	16.4	16.9	20.9	17.4	18.7	17.3	15.4	16.3
22	15.9	14.1	14.9	17.9	16.4	17.0	21.0	17.5	18.8	20.1	15.9	17.6
23	15.8	14.5	15.0	17.9	16.3	17.0	20.8	17.5	18.7	20.0	15.9	17.6
24	16.1	14.6	15.2	18.3	16.3	17.1	20.7	17.6	18.7	16.9	15.9	16.5
25	16.3	14.8	15.4	18.5	16.4	17.2	20.9	17.8	18.8	20.0	14.9	17.2
26	16.3	14.9	15.4	18.8	16.4	17.3	20.2	18.0	18.7	19.9	14.9	17.3
27	16.5	15.0	15.5	18.8	16.3	17.3	20.0	17.9	18.6	20.7	15.3	17.9
28	16.9	15.0	15.5	19.0	16.4	17.4	20.5	17.9	18.8	18.8	15.8	17.2
29	15.6	14.9	15.2	19.0	16.6	17.4	20.8	17.9	19.0	17.8	15.7	16.7
30	15.4	14.9	15.1	18.9	16.5	17.4	20.9	18.0	19.0	19.2	15.4	16.9
31	---	---	---	18.2	16.5	17.1	21.3	17.7	19.1	---	---	---
MONTH	16.9	8.9	13.7	19.0	14.5	16.3	21.3	16.5	18.3	22.2	14.9	18.3

ARKANSAS RIVER BASIN

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO

LOCATION.--Lat 38°51'17", long 104°52'39", in SE¹/4SW¹/4 sec.3, T.14 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank 200 ft upstream from diversion to city of Colorado Springs, 0.5 mi east of bridge on U.S. Highway 24 near west city limits of Colorado Springs, and 1.0 mi downstream from Sutherland Creek.

DRAINAGE AREA.--103 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1958 to current year.

GAGE.--Water-stage recorder with satellite telemetry, and v-notch weir. Elevation of gage is 6,110 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 9-13 and Jan. 24-26. Records good except for Oct. 3 and estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation and municipal use, and at times, transbasin diversion from Beaver Creek drainage and transmountain diversions from Colorado River basin.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	11	14	8.9	8.0	6.6	9.2	37	169	190	52	25
2	9.2	10	12	7.1	8.1	6.4	8.8	30	147	181	36	24
3	104	9.6	10	6.9	7.4	14	8.6	35	143	173	27	22
4	14	9.7	10	4.7	7.0	12	8.5	35	131	171	29	22
5	9.0	9.4	10	5.9	6.9	11	9.6	73	122	147	34	21
6	11	9.3	10	8.2	6.5	9.9	9.5	71	111	128	39	21
7	9.8	8.8	9.6	8.1	6.2	10	9.2	59	109	125	24	27
8	11	10	9.2	8.2	6.9	9.7	9.0	51	120	120	14	25
9	9.5	9.3	9.5	7.7	8.2	9.8	10	45	127	117	17	35
10	9.5	9.1	9.0	7.8	7.8	9.4	9.8	41	99	113	17	29
11	7.5	8.6	8.5	7.6	6.1	9.0	9.9	41	103	107	18	27
12	8.0	8.6	9.0	7.1	3.4	9.7	10	39	100	84	21	27
13	9.6	9.4	9.0	7.4	3.5	8.8	10	37	109	77	21	25
14	10	9.3	9.9	7.9	9.4	8.5	11	41	124	102	21	24
15	13	9.2	8.4	7.6	9.7	8.3	10	42	129	111	30	23
16	9.7	9.4	9.3	7.4	9.0	9.5	13	47	128	113	28	23
17	12	10	9.7	6.5	9.6	10	15	192	128	118	28	23
18	10	8.8	9.8	7.2	9.3	9.7	16	72	174	115	30	22
19	9.5	8.5	9.6	8.2	8.3	9.4	15	150	147	125	76	21
20	9.7	9.4	9.0	7.4	8.1	9.0	16	163	131	131	38	20
21	9.8	9.1	9.1	5.8	8.1	8.6	18	167	138	121	40	22
22	9.7	9.0	8.8	5.1	7.8	8.6	16	183	127	107	55	21
23	10	7.4	8.9	6.5	7.6	9.4	16	177	141	97	41	20
24	11	8.9	9.1	8.5	7.6	9.2	18	171	131	92	34	20
25	11	8.8	8.6	9.0	7.4	8.6	21	184	122	75	34	22
26	10	9.7	8.7	8.5	7.5	8.1	29	181	108	61	35	20
27	10	7.0	8.5	8.5	7.2	8.2	24	190	113	57	29	19
28	11	5.4	8.3	8.0	7.5	8.9	25	161	114	46	29	18
29	11	4.9	8.8	7.4	---	8.5	32	170	137	44	35	18
30	11	14	8.5	7.7	---	8.9	37	185	133	44	28	17
31	11	---	7.9	8.2	---	9.5	---	195	---	44	30	---
TOTAL	411.5	271.6	290.7	231.0	210.1	287.2	454.1	3265	3815	3336	990	683
MEAN	13.3	9.05	9.38	7.45	7.50	9.26	15.1	105	127	108	31.9	22.8
MAX	104	14	14	9.0	9.7	14	37	195	174	190	76	35
MIN	7.5	4.9	7.9	4.7	3.4	6.4	8.5	30	99	44	14	17
AC-FT	816	539	577	458	417	570	901	6480	7570	6620	1960	1350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

MEAN	12.2	10.3	8.29	7.76	7.46	8.86	12.9	29.8	28.4	21.0	17.9	13.2
MAX	44.0	34.6	18.8	18.5	13.6	15.2	33.4	172	127	108	60.9	34.0
(WY)	1985	1985	1985	1985	1986	1985	1985	1980	1983	1995	1965	1983
MIN	5.29	4.98	4.14	4.46	4.44	4.91	5.90	6.37	6.69	6.48	5.48	5.00
(WY)	1979	1965	1990	1994	1972	1965	1963	1989	1989	1964	1974	1978

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1958 - 1995

ANNUAL TOTAL	7446.2	14245.2		
ANNUAL MEAN	20.4	39.0	14.8	
HIGHEST ANNUAL MEAN			39.0	1995
LOWEST ANNUAL MEAN			7.29	1963
HIGHEST DAILY MEAN	210	May 10	195	May 31
LOWEST DAILY MEAN	2.9	Jan 7	3.4	Feb 12
ANNUAL SEVEN-DAY MINIMUM	3.5	Jan 4	6.0	Feb 7
INSTANTANEOUS PEAK FLOW			1760	Oct 3
INSTANTANEOUS PEAK STAGE			5.14	Oct 3
ANNUAL RUNOFF (AC-FT)	14770	28260	10740	
10 PERCENT EXCEEDS	51	127	26	
50 PERCENT EXCEEDS	11	11	9.5	
90 PERCENT EXCEEDS	5.8	7.6	5.4	

a-From rating curve extended above 190 ft³/s, on basis of slope-area measurements of peak flow at gage heights, 3.87 ft, 4.52 ft, and 5.27 ft.

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1974 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 13...	0855	9.7	400	8.4	7.5	9.2	0.4	200	560	42	8.6
DEC 01...	0845	14	260	--	2.0	10.8	0.6	93	790	26	5.0
29...	0815	6.7	433	7.7	0.0	11.6	0.3	K60	130	46	9.7
JAN 19...	0930	6.7	401	8.0	0.0	11.6	0.3	K45	53	47	9.4
FEB 23...	0845	7.6	373	8.4	2.0	10.9	0.2	75	150	40	7.9
MAR 23...	0815	8.6	401	8.3	2.5	10.7	0.3	43	83	41	8.2
APR 20...	0830	13	392	8.0	1.0	10.9	0.6	73	160	38	7.7
MAY 25...	0845	170	--	7.8	5.0	9.8	0.4	420	120	17	3.4
JUN 22...	0900	109	140	7.8	9.5	8.8	0.6	>600	73	15	2.8
JUL 27...	0830	59	193	7.7	11.0	8.4	0.2	190	K1600	19	3.9
AUG 17...	1010	27	247	8.2	13.0	7.9	0.4	390	260	26	5.3
SEP 28...	0845	19	267	8.3	9.0	9.0	0.3	480	160	29	5.9

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
OCT 13...	144	18	23	2.7	14	<0.01	1.0	<0.015	0.2	<0.01
DEC 01...	83	11	16	2.8	28	<0.01	0.86	<0.015	<0.2	<0.01
29...	161	19	24	2.9	4	<0.01	1.1	<0.015	<0.2	<0.01
JAN 19...	153	19	23	2.9	3	<0.01	1.3	<0.015	<0.2	<0.01
FEB 23...	132	17	20	2.6	1	<0.01	1.2	0.02	<0.2	<0.01
MAR 23...	134	17	23	2.7	7	<0.01	1.1	<0.015	<0.2	<0.01
APR 20...	114	--	--	--	13	<0.01	1.1	<0.015	<0.2	<0.01
MAY 25...	43	15	7.6	2.6	39	<0.01	0.49	0.03	0.4	0.01
JUN 22...	39	11	6.3	2.6	35	<0.01	0.45	0.02	0.2	<0.01
JUL 27...	56	13	9.3	2.6	1	<0.01	0.65	<0.015	<0.2	<0.01
AUG 17...	77	15	12	2.6	9	<0.01	0.89	<0.015	<0.2	<0.01
SEP 28...	87	15	13	2.8	1	<0.01	0.88	<0.015	<0.2	<0.01

K-Based on non-ideal colony counts.

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
	OCT 13...	<1	<1	<1	<1	<1	1	<1	510
DEC 01...	<1	<1	<1	<1	<1	1	1	920
29...	<1	<1	<1	<1	<1	<1	<1	190
JAN 19...	<1	<1	<1	<1	<1	<1	<1	200
FEB 23...	<1	<1	<1	<1	<1	<1	<1	240
MAR 23...	<1	<1	<1	<1	<1	<1	<1	410
APR 20...	<1	<0.3	<1	<1	<1	<1	1	670
MAY 25...	<1	<1	<1	<1	1	2	<1	3200
JUN 22...	<1	<1	<1	<1	<1	2	<1	1300
JUL 27...	<1	<1	<1	<1	<1	1	<1	710
AUG 17...	<1	<1	<1	<1	<1	<1	<1	360
SEP 28...	<1	<1	<1	<1	<1	<1	<1	360

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
	OCT 13...	65	<1	<1	60	41	<1	<1	<10	4
DEC 01...	52	3	<1	70	24	<1	<1	10	<3
29...	44	<1	<1	60	53	<1	<1	<10	5
JAN 19...	43	<1	<1	50	40	<1	<1	<10	<3
FEB 23...	37	<1	<1	50	36	<1	<1	<10	<3
MAR 23...	36	1	<1	70	39	<1	<1	<10	7
APR 20...	46	2	1	80	41	<1	1	10	3
MAY 25...	120	7	<1	200	17	1	<1	20	<3
JUN 22...	72	3	<1	120	19	1	<1	<10	<3
JUL 27...	60	1	<1	70	26	<1	<1	<10	<3
AUG 17...	43	<1	<1	50	24	<1	<1	<10	6
SEP 28...	30	<1	<1	30	30	<1	<1	<10	<10

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 1994					MAY 1995				
04...	1057	15	270	11.0	08...	1135	56	218	6.5
NOV					JUN				
30...	1345	15	188	3.5	02...	1025	147	178	7.5
JAN 1995					09...	1210	134	191	9.0
09...	1225	7.6	361	3.0	16...	1220	130	145	11.0
FEB					JUL				
24...	1130	7.6	381	5.5	06...	1650	129	145	13.0
MAR					AUG				
29...	1705	7.5	565	2.5	02...	1150	36	230	13.0
APR					30...	1340	29	222	14.0
27...	0940	21	--	4.0					

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WILL BE PUBLISHED IN A SUBSEQUENT REPORT

07103703 CAMP CREEK AT GARDEN OF THE GODS, CO

LOCATION.--Lat 38°52'37", long 104°52'20", in SE¹/4NE¹/4 sec.34, T.13 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on right bank, 70 ft downstream from county road bridge at east entrance to Garden of the Gods Park, and 1.9 mi upstream from mouth.

DRAINAGE AREA.--9.45 mi².

PERIOD OF RECORD.--April 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,310 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Jan. 3-18. Records fair except those for winter period, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	26	61	13	1.6	.50
2	.00	.00	.00	.00	.00	.00	.00	21	36	26	1.5	.38
3	1.8	.00	.00	.01	.00	.00	.00	21	36	22	1.3	.29
4	1.2	.00	.00	.02	.00	.00	.00	19	36	19	1.2	.19
5	.01	.00	.00	.04	.00	.00	.00	28	46	15	1.1	.13
6	.19	.00	.00	.04	.00	.01	.00	50	38	12	1.0	.08
7	.27	.00	.01	.04	.00	.00	.00	37	32	10	.93	.07
8	.15	.00	.00	.04	.00	.00	.00	29	29	8.7	.69	.05
9	.07	.00	.00	.04	.00	.00	.02	25	35	7.9	.30	.24
10	.03	.00	.01	.04	.00	.00	.00	21	37	7.2	.05	.38
11	.00	.00	.00	.04	.00	.00	.00	20	32	6.8	.00	1.2
12	.00	.00	.00	.04	.00	.00	.00	20	28	5.2	.01	1.4
13	.00	.00	.00	.03	.00	.00	.00	23	23	3.5	.00	1.2
14	.00	.00	.00	.03	.00	.00	.00	17	19	3.8	.00	1.0
15	.08	.00	.00	.02	.00	.00	.00	13	16	4.6	.00	.80
16	.00	.00	.00	.01	.00	.03	.01	12	14	3.6	.00	.43
17	.05	.00	.00	.01	.00	.00	.03	66	13	3.2	.00	.10
18	.00	.00	.00	.00	.00	.00	.04	73	12	4.1	.12	.00
19	.00	.00	.00	.00	.00	.00	.09	69	9.2	3.1	.24	.00
20	.00	.04	.00	.00	.00	.00	.36	60	8.4	3.3	.13	.00
21	.00	.00	.00	.00	.00	.00	.71	60	8.1	3.9	.56	.00
22	.00	.00	.00	.00	.00	.00	.98	54	7.6	3.4	.84	.00
23	.00	.00	.00	.00	.00	.00	1.2	43	7.5	3.2	1.5	.00
24	.00	.00	.00	.00	.00	.00	1.2	40	5.9	3.2	1.6	.00
25	.00	.00	.00	.00	.00	.00	1.3	45	5.4	2.8	1.5	.00
26	.00	.00	.00	.00	.00	.00	5.2	52	4.7	2.5	1.3	.00
27	.00	.00	.00	.00	.00	.00	6.3	49	4.1	2.2	1.6	.00
28	.00	.01	.00	.00	.00	.00	9.4	42	4.1	1.9	1.7	.00
29	.00	.01	.00	.00	---	.00	15	53	4.6	1.8	1.4	.00
30	.00	.00	.00	.00	---	.00	18	109	6.2	1.7	.97	.00
31	.00	---	.00	.00	---	.00	---	78	---	1.7	.61	---
TOTAL	3.85	0.06	0.02	0.45	0.00	0.04	59.84	1275	618.8	210.3	23.75	8.44
MEAN	.12	.002	.001	.015	.000	.001	1.99	41.1	20.6	6.78	.77	.28
MAX	1.8	.04	.01	.04	.00	.03	18	109	61	26	1.7	1.4
MIN	.00	.00	.00	.00	.00	.00	.00	12	4.1	1.7	.00	.00
AC-FT	7.6	.1	.04	.9	.00	.08	119	2530	1230	417	47	17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

MEAN	.041	.001	.000	.005	.000	.049	.84	12.2	5.83	1.75	.21	.30
MAX	.12	.002	.001	.015	.000	.15	1.99	41.1	20.6	6.78	.77	.76
(WY)	1995	1995	1993	1995	1993	1993	1995	1995	1995	1995	1995	1994
MIN	.000	.000	.000	.000	.000	.000	.000	.10	.013	.000	.000	.000
(WY)	1993	1993	1994	1993	1993	1994	1994	1993	1993	1993	1993	1993

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1992 - 1995
ANNUAL TOTAL	283.71	2200.55	
ANNUAL MEAN	.78	6.03	2.29
HIGHEST ANNUAL MEAN			6.03
LOWEST ANNUAL MEAN			.066
HIGHEST DAILY MEAN	35 ^a May 10	109 ^a May 30	109 ^a May 30 1995
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Aug 15 1992
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 18	.00 Aug 15 1992
INSTANTANEOUS PEAK FLOW		145 May 30	b ² 73 Sep 2 1994
INSTANTANEOUS PEAK STAGE		4.09 May 30	5.28 Sep 2 1994
ANNUAL RUNOFF (AC-FT)	563	4360	1660
10 PERCENT EXCEEDS	1.8	22	2.6
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

a-No flow most of time most years.

b-From rating curve extended above 900 ft³/s on the basis of contracted-opening measurement.

07103747 MONUMENT CREEK AT PALMER LAKE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 39°06'07", long 104°53'27", in SE¹/4SE¹/4 sec.9, T.11 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank 0.9 mi upstream from Monument Lake, 1.5 mi downstream from North Monument Creek, and 1.9 mi southeast of town of Palmer Lake.

PERIOD OF RECORD.--April 1977 to September 1980; January 1984 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 12...	0955	0.92	222	8.0	10.5	7.8	0.3	K110	130	28	4.9
NOV 30...	1040	0.81	179	7.4	1.0	10.8	0	29	K160	21	3.7
DEC 28...	0845	0.51	193	7.7	0.0	10.3	<0.1	27	88	23	4.0
JAN 18...	0915	0.51	186	--	0.0	10.5	0	22	54	24	4.2
FEB 22...	1030	0.47	188	7.9	4.0	9.4	0	K1	36	22	3.7
MAR 22...	0900	2.7	147	8.0	5.0	9.5	0.3	K4	89	17	2.7
APR 19...	0915	8.6	121	7.8	2.0	10.2	0.3	30	K120	13	2.0
MAY 24...	0945	62	77	7.7	5.0	9.7	0.8	K8	28	8.7	1.1
JUN 21...	0930	11	112	7.9	12.0	7.9	0.8	>120	82	13	1.9
JUL 26...	0915	6.1	135	7.8	12.5	8.0	0.6	K12	97	16	2.5
AUG 16...	1015	1.3	210	7.8	16.0	7.5	0.8	35	K210	26	4.4
SEP 27...	0945	2.7	193	7.5	11.5	8.4	0.4	100	78	22	3.5

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL SOLVED (MG/L AS N)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
OCT 12...	87	6.6	11	1.9	11	<0.01	<0.05	<0.015	<0.2	<0.01
NOV 30...	64	8.3	9.2	1.8	1	<0.01	<0.05	<0.015	<0.2	<0.01
DEC 28...	68	9.2	8.6	1.7	3	<0.01	<0.05	0.02	<0.2	<0.01
JAN 18...	69	9.8	9.4	1.7	7	<0.01	<0.05	0.02	<0.2	<0.01
FEB 22...	62	10	8.9	1.6	2	<0.01	<0.05	<0.015	<0.2	<0.01
MAR 22...	47	8.3	5.4	1.7	13	<0.01	<0.05	<0.015	<0.2	<0.01
APR 19...	36	6.9	5.3	1.5	4	<0.01	0.08	<0.015	<0.2	<0.01
MAY 24...	20	6.9	1.6	1.5	50	<0.01	<0.05	0.02	0.3	0.01
JUN 21...	36	8.0	3.5	1.7	9	<0.01	<0.05	0.02	<0.2	<0.01
JUL 26...	48	7.4	4.6	1.6	2	<0.01	0.05	<0.015	<0.2	<0.01
AUG 16...	78	6.7	9.8	1.7	5	<0.01	<0.05	<0.015	0.2	<0.01
SEP 27...	47	7.1	19	1.7	1	<0.01	<0.05	<0.015	<0.2	<0.01

K-Based on non-ideal colony counts.

07103747 MONUMENT CREEK AT PALMER LAKE, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 12...	<1	<1	<1	<1	<1	2	<1	810	200
NOV 30...	<1	<1	<1	<1	<1	<1	<1	310	170
DEC 28...	--	<1	--	<1	<1	--	<1	--	150
JAN 18...	<1	<1	<1	<1	<1	<1	<1	360	110
FEB 22...	<1	<1	<1	<1	1	<1	<1	270	120
MAR 22...	<1	<1	<1	<1	<1	<1	<1	730	110
APR 19...	<1	<1	<1	<1	1	<1	<1	250	89
MAY 24...	<1	<1	<1	<1	<1	1	1	2700	310
JUN 21...	<1	<1	<1	<1	<1	<1	<1	390	130
JUL 26...	<1	<1	<1	<1	<1	1	<1	390	200
AUG 16...	<1	<1	<1	<1	<1	<1	<1	800	--
SEP 27...	<1	<1	<1	<1	<1	<1	<1	490	310

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 12...	<1	<1	300	230	<1	<1	<10	3
NOV 30...	<1	<1	130	120	<1	<1	<10	<3
DEC 28...	--	<1	--	180	--	<1	--	<3
JAN 18...	<1	<1	200	180	<1	<1	<10	<3
FEB 22...	<1	<1	130	110	<1	<1	<10	<3
MAR 22...	1	<1	130	39	<1	<1	<10	3
APR 19...	<1	<1	30	17	<1	<1	<10	4
MAY 24...	3	<1	100	16	<1	<1	10	<3
JUN 21...	<1	<1	50	29	<1	<1	<10	<3
JUL 26...	<1	<1	70	65	<1	<1	<10	<3
AUG 16...	<1	<1	230	220	3	<1	<10	3
SEP 27...	<1	<1	140	140	<1	<1	<10	<10

07103780 MONUMENT CREEK ABOVE NORTH GATE BOULEVARD, AT U.S. AIR FORCE ACADEMY, CO

LOCATION.--Lat 39°01'52", long 104°50'52", in SW¹/4SW¹/4 sec.1, T.12 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on right bank, at U.S. Air Force Academy, 50 ft upstream from Denver and Rio Grande Western Railroad bridge, 0.8 mi upstream from North Gate Boulevard, and 1.5 mi downstream from Beaver Creek.

DRAINAGE AREA.--81.7 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,640 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 20 to Jan. 31, Feb. 8-15, and Mar. 1-3, 28-30. Records fair except for estimated daily discharges, which are poor. Storage and diversions upstream from station for municipal supply of Monument and Palmer Lake.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	4.9	3.5	3.5	3.4	3.0	7.5	52	112	62	13	4.0
2	3.4	4.3	3.5	3.5	3.3	3.5	6.8	58	106	52	12	5.4
3	3.6	4.3	3.7	3.5	3.2	4.0	6.5	60	110	51	11	5.2
4	10	4.5	3.4	3.5	2.8	3.0	6.3	58	106	55	10	4.3
5	11	4.3	2.3	4.0	3.6	2.8	7.8	77	105	61	11	4.2
6	9.2	4.2	3.5	4.5	3.5	3.0	7.3	75	97	56	12	5.3
7	4.7	4.4	4.0	5.0	2.8	2.8	8.3	68	90	41	12	8.4
8	4.9	6.6	3.9	5.1	2.8	3.0	8.1	66	83	33	11	7.4
9	4.3	9.9	3.5	5.2	2.8	4.2	7.8	60	78	28	9.1	10
10	4.1	8.5	3.8	5.1	2.8	4.7	10	51	70	22	9.0	13
11	4.0	5.6	4.0	4.7	2.8	4.5	11	44	67	20	9.2	15
12	3.9	5.3	4.0	4.5	2.8	6.7	9.6	45	56	18	9.1	17
13	4.0	5.1	4.0	4.0	3.0	8.0	16	41	49	17	9.0	15
14	4.1	4.9	4.0	3.7	4.0	3.7	22	40	44	30	8.2	15
15	4.9	5.7	4.1	3.7	6.0	3.4	16	41	47	44	7.9	13
16	4.2	4.9	4.1	3.7	11	3.6	18	41	50	31	6.9	7.9
17	5.0	4.0	4.2	3.7	10	5.6	23	114	50	35	6.6	6.3
18	6.3	9.5	4.2	3.7	5.7	8.1	23	149	61	36	5.8	6.5
19	4.6	9.3	4.5	3.7	4.0	8.1	25	198	50	30	14	9.9
20	5.1	5.6	4.3	3.5	3.4	5.7	22	214	42	28	13	9.2
21	5.7	6.1	4.2	3.5	3.7	7.8	23	219	36	26	12	9.2
22	4.7	3.8	4.0	3.5	3.3	8.2	22	194	30	25	10	8.9
23	4.5	3.4	4.0	3.5	3.0	5.1	22	172	32	24	13	8.2
24	4.5	3.3	3.9	3.5	3.2	8.5	22	157	31	23	17	7.3
25	4.4	3.6	3.9	4.0	2.9	7.4	23	144	29	21	17	11
26	5.0	3.9	4.0	4.2	2.9	9.7	26	139	29	20	16	15
27	7.6	3.8	4.0	3.9	3.0	8.2	26	134	26	18	13	12
28	6.2	3.7	3.8	3.8	3.0	8.2	28	117	27	14	8.0	6.9
29	5.9	3.6	3.5	3.5	---	8.2	29	129	42	9.9	6.9	7.1
30	6.0	3.8	3.5	3.4	---	8.2	39	142	56	9.0	6.2	7.7
31	6.0	---	3.5	3.2	---	8.5	---	130	---	10	4.9	---
TOTAL	165.0	154.8	118.8	121.8	108.7	179.4	522.0	3229	1811	949.9	323.8	275.3
MEAN	5.32	5.16	3.83	3.93	3.88	5.79	17.4	104	60.4	30.6	10.4	9.18
MAX	11	9.9	4.5	5.2	11	9.7	39	219	112	62	17	17
MIN	3.2	3.3	2.3	3.2	2.8	2.8	6.3	40	26	9.0	4.9	4.0
AC-FT	327	307	236	242	216	356	1040	6400	3590	1880	642	546

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1995, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	4.34	5.19	4.51	4.11	4.53	7.90	22.1	42.8	22.2	9.13	5.85	4.50
MAX	9.71	9.37	9.00	9.51	8.85	14.8	46.2	105	60.4	30.6	13.0	12.7
(WY)	1986	1986	1986	1986	1986	1992	1992	1985	1995	1995	1985	1985
MIN	.95	1.63	1.54	1.08	1.81	2.38	7.04	6.57	4.49	1.04	.90	1.16
(WY)	1990	1990	1990	1990	1990	1991	1989	1989	1989	1989	1989	1989

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1985 - 1995	
ANNUAL TOTAL	3668.1		7959.5			
ANNUAL MEAN	10.0		21.8		10.6	
HIGHEST ANNUAL MEAN					21.8	
LOWEST ANNUAL MEAN					3.82	
HIGHEST DAILY MEAN	80	May 12	219	May 21	345	Apr 30 1985
LOWEST DAILY MEAN	^a 1.1	Jul 18	2.3	Dec 5	.58	Oct 15 1989
ANNUAL SEVEN-DAY MINIMUM	1.5	Jul 26	2.8	Feb 7	.69	Aug 26 1989
INSTANTANEOUS PEAK FLOW			235		372	
INSTANTANEOUS PEAK STAGE			5.33		6.05	
ANNUAL RUNOFF (AC-FT)	7280		15790		7700	
10 PERCENT EXCEEDS	32		58		27	
50 PERCENT EXCEEDS	4.0		7.5		5.2	
90 PERCENT EXCEEDS	1.9		3.5		1.8	

a-Also occurred Aug 27.

07103780 MONUMENT CREEK ABOVE NORTH GATE BOULEVARD, AT U.S. AIR FORCE ACADEMY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1984 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
OCT											
12...	1130	3.2	351	8.1	12.5	7.7	0.8	K11	34	30	5.2
NOV											
30...	1210	29	266	7.5	1.0	10.9	2.3	37	68	26	4.3
DEC											
28...	1000	26	399	7.8	0.0	11.0	<1.2	K11	50	31	5.4
JAN											
18...	1045	33	394	--	0.0	10.5	0.9	K5	K5	34	5.8
FEB											
22...	1215	3.2	375	8.2	9.5	8.3	1.6	K1	K5	28	4.6
MAR											
22...	1030	7.7	288	8.3	8.5	8.8	1.7	K2	16	26	4.0
APR											
19...	1105	24	226	8.0	3.5	9.9	1.6	K9	38	22	3.4
MAY											
24...	1130	158	143	7.8	8.0	8.9	1.2	190	97	15	2.3
JUN											
21...	1045	35	202	8.0	17.5	7.6	1.4	>120	87	23	3.5
JUL											
26...	1030	20	226	7.9	17.5	7.7	1.4	39	86	25	4.1
AUG											
16...	1130	6.9	302	8.4	21.0	6.9	1.4	75	99	31	4.9
SEP											
27...	1100	15	240	8.4	12.0	8.3	1.8	K55	87	27	4.3

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT										
12...	98	29	31	1.4	12	0.01	0.16	<0.015	0.4	1.1
NOV										
30...	78	15	20	1.6	69	0.01	0.56	0.05	1.0	0.54
DEC										
28...	97	31	34	1.2	6	0.03	0.64	1.2	1.7	1.4
JAN										
18...	99	36	32	1.3	14	0.04	1.5	0.68	1.2	1.3
FEB										
22...	81	33	30	1.2	5	0.02	3.2	0.03	0.7	1.2
MAR										
22...	72	20	19	1.6	16	0.02	2.2	0.08	0.6	1.0
APR										
19...	60	13	17	1.5	23	<0.01	0.11	0.18	0.5	0.24
MAY										
24...	35	12	7.6	1.4	137	<0.01	0.23	0.03	0.4	0.04
JUN										
21...	56	18	12	1.4	24	0.01	0.45	0.02	0.5	0.16
JUL										
26...	68	16	14	1.3	18	0.01	0.43	0.03	0.5	0.24
AUG										
16...	85	25	20	1.3	9	0.02	0.29	<0.015	0.5	0.52
SEP										
27...	74	14	15	1.5	5	<0.01	0.06	<0.015	0.4	0.29

K Based on non-ideal colony counts.

07103780 MONUMENT CREEK ABOVE NORTH GATE BOULEVARD, AT U.S. AIR FORCE ACADEMY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 12...	<1	<1	<1	<1	<1	2	2	480	25
NOV 30...	<1	<1	<1	<1	<1	2	2	1600	96
DEC 28...	<1	<1	<1	<1	<1	3	3	360	130
JAN 18...	<1	<1	<1	<1	<1	4	3	510	120
FEB 22...	<1	<1	<1	<1	<1	4	4	310	110
MAR 22...	<1	<1	<1	<1	<1	4	3	530	110
APR 19...	<1	<1	<1	<1	1	<1	1	750	140
MAY 24...	<1	<1	<1	<1	<1	2	1	2600	--
JUN 21...	<1	<1	<1	<1	<1	1	1	770	--
JUL 26...	<1	<1	<1	<1	<1	2	1	810	--
AUG 16...	<1	<1	<1	<1	<1	2	2	480	--
SEP 27...	<1	<1	<1	<1	<1	1	<1	440	150

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 12...	<1	<1	40	24	2	2	10	12
NOV 30...	2	<1	210	23	2	2	10	7
DEC 28...	1	<1	60	43	2	2	10	14
JAN 18...	1	<1	80	59	2	<1	20	12
FEB 22...	<1	<1	40	25	1	1	10	14
MAR 22...	1	<1	80	42	1	<1	<10	7
APR 19...	<1	<1	110	49	<1	<1	<10	<3
MAY 24...	5	<1	120	47	2	<1	20	<3
JUN 21...	<1	<1	100	61	1	<1	<10	<3
JUL 26...	<1	<1	100	56	1	<1	<10	<3
AUG 16...	<1	<1	70	45	2	1	<10	11
SEP 27...	<1	<1	20	40	<1	<1	<10	<10

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 1994 05...	1140	9.9	261	14.0	MAY 1995 08...	1425	68	166	11.5
JAN 1995 10...	1035	5.1	336	3.0	JUN 15...	0900	47	185	14.5
FEB 22...	1125	3.5	373	6.5	JUL 06...	1300	47	211	20.0
MAR 27...	1140	8.5	308	9.0	AUG 03...	1410	11	279	23.0
APR 28...	1520	29	242	11.5	30...	1010	6.0	307	18.5

07103797 WEST MONUMENT CREEK BELOW RAMPART RESERVOIR, CO

LOCATION.--Lat 38°58'30", long 104°57'18", in NE¹/4SE¹/4 sec.26, T.12 S., R.68 W., El Paso County, Hydrologic Unit 11020003, on right bank 0.5 mi below Rampart Reservoir, and 0.1 mi below Wildcat Gulch.

DRAINAGE AREA.--7.29 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 8,710 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Aug. 16-21, and Sept. 1-2. Records good except for estimated daily discharges, and those above 30 ft³/s, which are poor. Natural flow of stream affected by storage reservoir and transmountain diversions.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	9.3	10	6.5	8.9	6.8	6.1	4.6	5.4	9.8	9.2	7.7
2	13	8.6	10	6.1	8.3	6.9	6.3	4.6	5.4	6.4	8.4	11
3	12	8.4	10	5.9	8.1	5.6	6.3	4.4	5.6	4.7	8.1	11
4	12	8.4	10	5.9	8.1	5.2	7.8	4.3	5.6	4.6	8.1	11
5	12	8.4	10	6.0	8.3	4.9	13	4.7	5.4	5.5	8.1	8.3
6	12	8.4	10	5.9	8.4	4.8	12	4.7	5.0	6.1	8.0	6.3
7	8.1	8.4	11	5.8	8.6	4.7	8.9	4.5	4.9	12	7.9	6.0
8	6.1	8.4	11	5.8	8.7	4.7	11	4.4	5.2	15	8.1	5.1
9	6.4	8.4	11	5.8	8.8	5.2	8.7	4.2	5.3	15	9.3	4.5
10	7.1	12	12	6.1	8.7	6.1	5.6	4.3	5.4	15	9.6	4.4
11	9.2	13	12	6.2	8.8	6.8	5.6	6.5	5.2	15	12	4.3
12	14	14	12	6.1	8.8	7.1	5.7	12	4.9	15	14	4.1
13	16	11	12	6.1	6.5	7.2	6.0	13	4.7	14	13	4.1
14	17	9.7	18	6.1	3.9	7.2	6.0	10	5.6	11	10	4.2
15	14	9.7	14	7.3	4.0	7.0	5.8	12	12	4.7	9.7	4.2
16	9.7	9.7	13	9.5	4.4	6.6	5.8	13	12	5.1	8.4	4.2
17	9.2	10	6.0	9.8	4.6	6.1	6.1	9.5	12	5.5	8.0	4.4
18	8.4	10	7.6	11	4.7	5.8	6.2	6.3	11	6.1	7.9	4.7
19	7.6	10	9.0	8.3	4.8	5.9	6.2	6.8	7.6	8.1	9.1	5.0
20	7.2	10	8.6	7.7	4.9	5.8	6.1	7.9	8.3	8.0	4.7	5.0
21	7.1	10	4.5	7.9	5.9	6.0	6.1	8.2	9.1	7.3	5.3	4.8
22	7.2	11	1.7	7.9	6.2	6.1	6.1	7.8	13	6.6	4.9	5.0
23	7.4	12	1.7	8.5	7.0	6.0	6.1	7.4	16	6.9	4.7	4.9
24	8.2	12	4.8	8.7	7.4	6.0	6.2	6.9	8.4	6.3	4.2	4.9
25	8.5	15	7.1	8.8	7.9	6.0	6.4	6.4	6.5	6.0	4.6	5.0
26	9.4	16	7.1	8.8	7.9	6.0	6.5	6.0	7.5	5.8	4.7	5.0
27	9.9	13	7.1	9.7	7.6	6.0	6.7	7.7	8.9	5.7	4.9	4.9
28	9.9	11	6.9	10	7.0	6.0	6.9	7.2	12	7.8	5.4	5.0
29	9.8	11	6.9	10	---	6.0	7.2	5.5	14	14	6.2	5.0
30	9.9	10	6.5	10	---	6.0	5.6	5.9	11	19	6.4	4.5
31	9.9	---	6.3	9.4	---	6.0	---	5.6	---	13	6.5	---
TOTAL	312.2	316.8	277.8	237.6	197.2	186.5	209.0	216.3	242.9	285.0	239.4	168.5
MEAN	10.1	10.6	8.96	7.66	7.04	6.02	6.97	6.98	8.10	9.19	7.72	5.62
MAX	17	16	18	11	8.9	7.2	13	13	16	19	14	11
MIN	6.1	8.4	1.7	5.8	3.9	4.7	5.6	4.2	4.7	4.6	4.2	4.1
AC-FT	619	628	551	471	391	370	415	429	482	565	475	334

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1994	1995	1994	1995	1994	1995	1994	1995	1994	1995
MEAN	10.1	10.6	9.32	7.79	7.68	8.36	8.47	8.76	8.97	14.9	11.7	8.91
MAX	10.1	10.6	9.68	7.91	8.32	10.7	9.97	10.5	9.85	20.6	15.7	12.2
(WY)	1995	1995	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994
MIN	10.1	10.6	8.96	7.66	7.04	6.02	6.97	6.98	8.10	9.19	7.72	5.62
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1994 - 1995

ANNUAL TOTAL	4129.7	2889.2		
ANNUAL MEAN	11.3	7.92		
HIGHEST ANNUAL MEAN		7.92		1995
LOWEST ANNUAL MEAN		7.92		1995
HIGHEST DAILY MEAN	29	Jul 10	19	Jul 30
LOWEST DAILY MEAN	^a 1.7	Dec 22	^a 1.7	Dec 22
ANNUAL SEVEN-DAY MINIMUM	4.7	May 31	4.2	Sep 10
INSTANTANEOUS PEAK FLOW			29	Dec 14
INSTANTANEOUS PEAK STAGE			5.21	Dec 14
ANNUAL RUNOFF (AC-FT)	8190	5730	5730	5730
10 PERCENT EXCEEDS	18	12		16
50 PERCENT EXCEEDS	10	7.2		8.8
90 PERCENT EXCEEDS	6.7	4.7		5.0

a-Also occurred Dec 23.

07103800 WEST MONUMENT CREEK AT U.S. AIR FORCE ACADEMY, CO

LOCATION.--Lat 38°58'14", long 104°54'08", in SW¹/4SW¹/4 sec.28, T.12 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank 500 ft upstream from diversion to city of Colorado Springs water-treatment plant, 2.7 mi south of U.S. Air Force Academy chapel, and 4.4 mi upstream from mouth.

DRAINAGE AREA.--14.9 mi².

PERIOD OF RECORD.--May 1970 to current year.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 7,180 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 27-30, Dec. 9-11, Dec. 31 to Jan. 5, Jan. 17-24. Feb. 12-14, Mar. 1-12, and Mar. 30-31. Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by trans-mountain diversions from Colorado River basin, storage reservoirs, and operation of water-supply system. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.91	.99	.85	.85	.85	.85	.85	5.5	44	6.8	3.1	1.9
2	.92	.99	.85	.85	.85	.85	.94	5.7	37	7.5	3.0	1.9
3	.96	.99	.85	.85	.85	.85	.88	6.0	32	8.0	2.9	1.8
4	1.1	.99	.85	.85	.85	.85	.90	6.3	29	8.6	2.8	1.8
5	1.0	.99	.85	.85	.85	.85	.91	9.8	29	8.2	2.8	1.7
6	1.0	.99	.85	.85	.85	.86	.91	16	26	7.8	2.7	1.6
7	.98	.99	.85	.85	.85	.85	.91	16	22	7.7	2.6	2.0
8	1.1	.99	.85	.81	.85	.85	.94	15	22	7.2	2.5	1.9
9	1.0	.92	.85	.83	.85	.85	.97	13	26	6.7	2.6	3.9
10	1.0	.85	.85	.85	.85	.85	.93	11	27	6.1	2.5	2.8
11	1.0	.85	.85	.85	.83	.85	1.0	11	24	5.7	2.6	2.0
12	.99	.85	.85	.85	.85	.85	1.0	12	21	5.3	2.7	1.8
13	.99	.85	.85	.85	.85	.85	1.3	12	19	5.0	2.5	1.7
14	.99	.85	.85	.85	.85	.86	1.4	11	17	6.4	2.4	1.6
15	1.3	.85	.85	.85	.85	.87	1.3	11	14	5.6	2.3	1.5
16	1.1	.85	.85	.85	.85	.94	1.3	11	12	5.0	2.2	1.5
17	1.2	.85	.85	.85	.85	1.0	1.4	23	10	4.6	2.1	1.4
18	1.1	.85	.85	.85	.85	.99	1.4	32	9.3	4.5	2.1	1.6
19	1.1	.85	.85	.85	.85	.99	1.5	46	7.9	4.6	5.3	1.7
20	1.1	.86	.85	.85	.85	.93	1.5	49	7.1	4.7	3.1	1.6
21	1.0	.85	.85	.85	.85	.94	1.5	52	6.4	4.4	2.8	1.6
22	1.0	.85	.85	.85	.85	.93	1.4	50	5.8	4.1	2.5	1.7
23	.99	.85	.85	.85	.85	.91	1.4	48	5.9	4.5	3.1	4.7
24	.99	.85	.85	.85	.85	.92	1.4	40	5.5	4.2	2.7	7.1
25	.99	.85	.85	.85	.85	.92	1.7	33	5.1	3.9	2.6	7.5
26	.99	.86	.85	.85	.85	.92	2.0	30	4.6	3.7	2.6	6.4
27	.99	.85	.85	.85	.85	.87	2.1	21	4.3	3.6	2.3	2.5
28	.99	.85	.85	.81	.85	.85	2.8	20	4.4	3.6	2.2	1.5
29	.99	.85	.85	.83	---	.85	3.9	26	4.6	3.5	2.1	1.5
30	1.0	.85	.85	.84	---	.85	4.8	50	5.1	3.4	2.1	1.4
31	.99	---	.85	.85	---	.85	---	49	---	3.4	2.1	---
TOTAL	31.76	26.71	26.35	26.22	23.78	27.45	45.24	741.3	487.0	168.3	81.9	73.6
MEAN	1.02	.89	.85	.85	.85	.89	1.51	23.9	16.2	5.43	2.64	2.45
MAX	1.3	.99	.85	.85	.85	1.0	4.8	52	44	8.6	5.3	7.5
MIN	.91	.85	.85	.81	.83	.85	.85	5.5	4.3	3.4	2.1	1.4
AC-FT	63	53	52	52	47	54	90	1470	966	334	162	146

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1995, BY WATER YEAR (WY)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1.72	1.13	.92	.62	.33	.42	1.85	6.45	3.96	2.57	2.69	1.89														
MAX	11.7	7.74	8.62	8.78	3.63	2.46	12.4	30.5	27.9	23.3	23.8	20.3														
(WY)	1972	1971	1971	1971	1971	1971	1971	1980	1971	1970	1970	1970														
MIN	.000	.000	.000	.000	.000	.001	.11	.20	.031	.017	.000	.000														
(WY)	1993	1993	1994	1993	1976	1991	1989	1976	1976	1993	1993	1993														

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1970 - 1995

ANNUAL TOTAL	450.67	1759.61	
ANNUAL MEAN	1.23	4.82	1.76
HIGHEST ANNUAL MEAN			13.4
LOWEST ANNUAL MEAN			.10
HIGHEST DAILY MEAN	14	May 11	59
LOWEST DAILY MEAN	^a .00	Jan 1	^b .00
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	^c .00
INSTANTANEOUS PEAK FLOW			^d 80
INSTANTANEOUS PEAK STAGE			2.73
ANNUAL RUNOFF (AC-FT)	894	3490	1270
10 PERCENT EXCEEDS	2.5	12	5.1
50 PERCENT EXCEEDS	.85	1.0	.40
90 PERCENT EXCEEDS	.05	.85	.05

a-No flow many days during the year.
b-No flow many days during 1976, 1991-92.
c-From rating curve extended above 34 ft³/s.
d-Maximum gage height, 3.88 ft, Dec 22, 1983, backwater from ice.

07103980 COTTONWOOD CREEK AT WOODMEN ROAD NEAR COLORADO SPRINGS, CO

LOCATION.--Lat 38°56'22", long 104°44'26", in NE¹/4NE¹/4 sec.11, T.13 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on right bank, 100 ft downstream from Woodmen Road, 4.0 mi east of Interstate 25, and 5.0 mi upstream from mouth.

DRAINAGE AREA.--10.3 mi².

PERIOD OF RECORD.--May 1992 to current year.

REVISED RECORDS.--WDR CO-93-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 6,680 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 11-14, 17, Dec. 4-18, Jan. 1-4, Jan. 15 to Feb. 1, Feb. 4-8, 11-17, Mar. 25, Mar. 29 to Apr. 8, 12-28, and Aug. 3-8. Records fair except for estimated daily discharges which are poor. Eleven measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	.78	.50	.52	.30	1.3	.28	1.5	13	20	1.1	.80
2	5.0	.76	.48	.50	.35	1.3	.40	1.3	42	7.6	1.0	.91
3	2.1	.85	.31	.75	.37	1.0	.32	1.1	34	9.3	1.0	.76
4	15	.86	.25	.64	.35	.43	.50	.87	21	17	1.4	.73
5	4.2	.76	.20	.62	.34	.38	.58	12	16	8.5	.98	.76
6	1.7	.63	.32	.61	.32	1.1	.35	6.6	8.9	5.7	.92	2.7
7	1.7	.53	.24	.62	.30	.34	.34	3.7	7.4	4.6	.88	5.3
8	1.9	.32	.23	.73	.25	.57	.40	3.7	12	4.0	.86	1.2
9	1.1	.40	.30	.82	.28	.43	.93	2.1	8.8	3.8	.84	20
10	1.1	.26	.25	.25	.30	.34	.52	1.2	7.6	3.2	.85	7.7
11	1.0	.25	1.7	.20	.41	.35	3.3	.90	7.3	2.5	2.9	4.9
12	.95	.30	.50	.40	.45	.46	1.0	.80	6.0	1.8	1.8	2.3
13	.98	.35	.61	.27	.58	.47	.70	.72	5.1	1.8	1.2	1.6
14	1.0	.39	.35	.20	.64	.45	.66	.92	4.5	6.8	2.4	1.3
15	8.3	.50	.38	.35	.70	.36	.60	.85	4.2	3.7	1.1	1.2
16	.81	.39	.40	.17	.80	.50	.80	1.3	3.6	2.3	1.1	1.1
17	6.2	.35	.42	.20	.90	.60	2.8	31	6.8	2.6	.93	1.1
18	.81	.30	.40	.25	.89	.42	1.1	11	5.0	3.3	.92	3.2
19	.75	.34	.19	.19	.79	.43	.90	8.3	4.0	3.0	12	4.3
20	.73	6.1	.36	.18	.61	.49	.80	7.5	3.0	3.7	1.9	2.6
21	.73	.83	.52	.17	.55	.43	1.0	5.2	2.2	3.3	2.4	2.9
22	.70	.59	.41	.16	.59	.33	1.5	5.5	2.2	3.1	11	2.0
23	.63	.75	.46	.15	.71	.31	1.2	5.6	3.6	6.7	5.6	1.5
24	.75	.58	.60	.18	.82	.21	1.7	7.0	3.6	2.7	3.6	2.0
25	.76	.48	.51	.20	.92	.19	1.3	8.5	2.8	2.1	2.7	1.9
26	.76	.35	.48	.17	.76	.54	3.0	15	2.0	1.9	4.2	1.7
27	.74	.25	.43	.16	.70	.42	1.5	12	1.3	1.5	1.3	1.9
28	.68	.24	.51	.18	.64	.29	1.4	14	13	1.4	1.2	1.9
29	.66	.30	.50	.19	---	.27	4.3	29	6.1	1.3	1.2	2.2
30	.86	.32	.51	.20	---	.26	5.9	27	8.5	1.1	1.0	2.1
31	.67	---	.43	.25	---	.34	---	14	---	1.1	.79	---
TOTAL	80.27	20.11	13.75	10.48	15.62	15.31	40.08	240.16	265.5	141.4	71.07	84.56
MEAN	2.59	.67	.44	.34	.56	.49	1.34	7.75	8.85	4.56	2.29	2.82
MAX	17	6.1	1.7	.82	.92	1.3	5.9	31	42	20	12	20
MIN	.63	.24	.19	.15	.25	.19	.28	.72	1.3	1.1	.79	.73
AC-FT	159	40	27	21	31	30	79	476	527	280	141	168

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

MEAN	1.18	.66	.43	.42	.49	.83	1.07	3.20	2.70	1.60	1.74	1.29
MAX	2.59	.85	.52	.58	.56	1.25	1.34	7.75	8.85	4.56	2.78	2.82
(WY)	1995	1994	1994	1993	1995	1994	1995	1995	1995	1995	1992	1995
MIN	.35	.47	.33	.33	.42	.49	.60	.64	.49	.24	.66	.47
(WY)	1993	1993	1993	1994	1994	1995	1993	1993	1994	1994	1993	1992

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1992 - 1995	
ANNUAL TOTAL	336.59		998.31			
ANNUAL MEAN	.92		2.74		1.39	
HIGHEST ANNUAL MEAN					2.74	
LOWEST ANNUAL MEAN					.65	
HIGHEST DAILY MEAN	17	Oct 1	42	Jun 2	42	Jun 2 1995
LOWEST DAILY MEAN	.17	Jan 16	.15	Jan 23	.15	Jan 23 1995
ANNUAL SEVEN-DAY MINIMUM	.23	Jun 29	.17	Jan 21	.17	Jan 21 1995
INSTANTANEOUS PEAK FLOW			387	Jun 2	^a 1090	Jul 19 1993
INSTANTANEOUS PEAK STAGE			4.10	Jun 2	5.57	Jul 19 1993
ANNUAL RUNOFF (AC-FT)	668		1980		1000	
10 PERCENT EXCEEDS	1.4		7.3		2.2	
50 PERCENT EXCEEDS	.50		.87		.51	
90 PERCENT EXCEEDS	.24		.28		.27	

a-From rating curve extended above 1.1 ft³/s, on basis of slope-area measurement of peak flow.

07103990 COTTONWOOD CREEK AT MOUTH AT PIKEVIEW, CO

LOCATION.--Lat 38°55'41", long 104°38'35", in SW¹/4SW¹/4 sec.8, T.13 S, R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank 70 ft. upstream from Vincent Drive bridge, 0.3 mi south of Woodmen Valley Road, and 0.3 mi upstream from mouth.

DRAINAGE AREA.--18.7 mi².

PERIOD OF RECORD.--December 1985 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,265 ft. above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Jan. 4, 5, 9, 10, 24-27, and June 2 to July 3. Records poor. Natural flow of stream affected by runoff from industrial and residential areas of northeast Colorado Springs. Several measurements of water temperature and specific conductance were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	6.9	8.0	5.5	4.7	4.0	4.8	6.8	12	150	7.2	6.2
2	7.5	7.3	7.6	5.1	4.7	4.5	5.0	7.4	125	30	7.2	6.4
3	15	7.5	7.4	5.7	4.3	5.0	5.0	7.8	60	17	7.3	6.3
4	41	7.3	7.1	5.6	4.6	4.2	5.0	7.2	75	24	14	6.2
5	7.0	6.9	6.0	5.5	4.9	4.4	5.2	32	25	14	6.9	6.7
6	5.5	6.8	7.1	5.4	5.1	5.7	4.7	9.5	19	13	6.4	7.7
7	5.5	6.8	6.9	4.4	4.7	4.4	4.9	9.1	21	12	6.1	12
8	5.9	6.5	6.7	4.8	4.6	4.4	5.1	8.9	27	11	5.6	7.9
9	6.0	6.7	7.2	5.1	4.5	4.1	7.3	9.4	24	14	5.0	47
10	6.7	6.7	6.9	4.8	4.5	3.8	5.8	8.0	22	13	4.8	13
11	6.7	6.3	11	4.4	4.6	3.6	5.8	7.2	18	11	8.2	11
12	6.7	6.2	7.7	4.9	4.6	3.3	5.7	6.5	19	8.4	8.6	10
13	6.6	6.5	8.9	4.5	4.5	3.4	5.1	6.1	17	8.1	5.6	9.6
14	7.1	6.8	6.0	4.1	7.3	3.3	4.7	6.2	16	28	6.8	9.5
15	17	6.6	6.2	4.8	3.8	3.5	4.4	6.9	15	18	5.7	9.3
16	7.1	6.4	6.5	4.0	4.2	3.7	4.9	12	16	11	4.6	8.9
17	14	7.3	6.5	4.2	4.6	3.5	7.2	104	18	10	4.7	8.7
18	6.8	7.7	6.0	4.8	4.6	3.7	8.0	20	17	11	4.3	11
19	7.0	7.5	5.1	4.6	4.3	3.5	7.8	12	15	9.8	43	11
20	7.1	8.2	5.2	4.5	4.4	3.4	6.9	18	13	10	5.3	9.5
21	6.5	6.5	6.5	4.1	4.4	3.6	7.2	17	12	8.9	5.5	9.3
22	6.7	6.8	6.0	4.0	4.5	3.0	7.5	13	10	8.5	39	8.6
23	6.8	7.6	6.3	3.5	4.2	3.1	6.6	16	12	17	12	7.9
24	6.7	7.7	6.7	4.1	4.3	4.3	7.2	20	13	9.0	11	8.2
25	6.3	7.1	6.5	4.5	4.7	4.3	6.7	25	12	8.8	8.4	7.3
26	6.7	6.9	6.1	4.4	4.6	4.7	11	34	10	8.1	13	7.1
27	6.8	6.2	6.3	4.3	4.5	4.9	7.3	20	11	7.8	7.3	7.3
28	7.1	6.6	6.4	4.2	4.2	5.2	6.2	22	45	7.5	7.2	7.3
29	7.0	6.4	6.5	4.3	---	4.8	9.2	55	19	7.4	7.1	7.3
30	7.4	7.1	6.4	4.9	---	4.9	8.3	56	74	7.3	6.7	7.6
31	7.1	---	5.9	4.6	---	4.8	---	21	---	7.2	6.4	---
TOTAL	297.3	207.8	209.6	143.6	128.9	127.0	190.5	604.0	792	520.8	290.9	295.8
MEAN	9.59	6.93	6.76	4.63	4.60	4.10	6.35	19.5	26.4	16.8	9.38	9.86
MAX	41	8.2	11	5.7	7.3	5.7	11	104	125	150	43	47
MIN	5.5	6.2	5.1	3.5	3.8	3.0	4.4	6.1	10	7.2	4.3	6.2
AC-FT	590	412	416	285	256	252	378	1200	1570	1030	577	587

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1995, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995		
MEAN	4.74	4.16	3.64	3.68	3.97	5.40	4.87	7.42	7.90	7.12	7.05	5.38
MAX	9.59	6.93	6.76	5.30	6.26	11.1	7.01	19.5	26.4	16.8	9.38	9.86
(WY)	1995	1995	1995	1994	1988	1992	1990	1995	1995	1995	1995	1995
MIN	1.93	2.90	1.92	2.30	2.28	2.67	3.31	2.71	3.05	2.34	5.41	2.67
(WY)	1987	1987	1992	1987	1990	1991	1989	1986	1990	1992	1993	1986

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1986 - 1995

ANNUAL TOTAL	2134.9	3808.2	
ANNUAL MEAN	5.85	10.4	5.60
HIGHEST ANNUAL MEAN			10.4
LOWEST ANNUAL MEAN			4.01
HIGHEST DAILY MEAN	60	May 9	150
LOWEST DAILY MEAN	1.3	Mar 19	3.0
ANNUAL SEVEN-DAY MINIMUM	1.9	Mar 14	3.4
INSTANTANEOUS PEAK FLOW			736
INSTANTANEOUS PEAK STAGE			7.11
ANNUAL RUNOFF (AC-FT)	4230	7550	4060
10 PERCENT EXCEEDS	7.9	18	8.1
50 PERCENT EXCEEDS	4.7	6.8	3.8
90 PERCENT EXCEEDS	2.5	2.5	2.2

a-From rating curve extended above 60 ft³/s, on basis of culvert measurement of peak flow, gage height not determined.

b-Maximum gage height determined.

ARKANSAS RIVER BASIN

07104000 MONUMENT CREEK AT PIKEVIEW, CO

LOCATION.--Lat 38°55'04", long 104°49'05", in NW¹/4SE¹/4 sec.18, T.13 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on right bank 0.1 mi west of U.S. Interstate Highway I-25, 0.9 mi downstream from Cottonwood Creek, and 1.3 mi downstream from Woodmen Valley Road.

DRAINAGE AREA.--204 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to September 1949, January 1976 to current year.

REVISED RECORDS.--WDR CO-90-1: 1989 (M).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,203.26 ft above sea level. September 1938 to October 1949, nonrecording gage at present site at datum 0.10 ft lower.

REMARKS.--Estimated daily discharges: Nov. 28 to March 3, and March 25. Records fair except those for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, municipal use and return flow from irrigation, and sewage-effluent discharge.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 30, 1935, reached a stage of about 14 ft, present datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	16	21	14	17	12	15	87	265	302	45	29
2	57	15	19	13	15	19	12	102	347	152	43	28
3	123	16	18	16	14	28	12	115	344	133	41	29
4	149	17	16	15	15	16	13	108	401	141	55	24
5	83	19	14	15	16	13	12	324	297	135	48	23
6	72	16	17	14	17	25	12	229	234	115	41	26
7	57	16	15	13	15	13	13	167	196	99	38	57
8	51	16	16	18	14	15	12	132	249	85	36	41
9	40	19	17	17	14	14	25	108	216	73	36	102
10	35	20	19	15	15	15	24	87	204	65	39	65
11	30	17	17	14	14	15	21	74	173	54	43	39
12	26	16	18	15	13	15	20	78	143	50	60	40
13	23	15	25	14	13	19	21	78	123	42	42	37
14	20	17	17	13	35	16	28	74	107	117	39	33
15	44	16	15	16	18	15	27	67	100	147	28	28
16	23	15	16	12	16	16	26	74	97	115	26	21
17	36	17	18	14	16	18	45	576	124	104	27	22
18	24	18	15	16	15	18	60	314	130	105	27	28
19	21	18	14	14	14	19	69	404	93	97	159	38
20	18	21	16	13	15	19	54	452	80	94	57	29
21	19	15	18	12	14	21	60	442	67	92	49	29
22	21	15	16	12	16	19	53	401	59	76	91	26
23	20	18	17	11	15	19	42	362	73	109	89	27
24	19	17	20	15	14	18	46	330	74	82	97	31
25	18	17	18	18	15	20	39	292	69	69	72	35
26	19	17	16	16	14	22	87	291	57	62	70	39
27	19	18	17	15	13	19	50	258	55	55	50	34
28	20	24	18	14	13	20	50	223	117	48	33	23
29	19	23	17	13	---	20	68	371	133	40	28	22
30	20	22	16	13	---	19	77	443	170	42	27	25
31	17	---	15	15	---	16	---	324	---	44	33	---
TOTAL	1232	526	531	445	435	553	1093	7387	4797	2944	1569	1030
MEAN	39.7	17.5	17.1	14.4	15.5	17.8	36.4	238	160	95.0	50.6	34.3
MAX	149	24	25	18	35	28	87	576	401	302	159	102
MIN	17	15	14	11	13	12	12	67	55	40	26	21
AC-FT	2440	1040	1050	883	863	1100	2170	14650	9510	5840	3110	2040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

MEAN	17.5	16.5	13.9	12.7	14.0	20.7	46.1	90.5	43.4	24.5	25.8	14.7
MAX	82.8	55.3	29.5	26.8	28.7	46.2	259	338	160	95.0	80.6	46.7
(WY)	1985	1985	1986	1986	1991	1984	1942	1947	1995	1995	1945	1985
MIN	1.90	4.27	3.95	4.40	4.06	6.67	10.2	12.7	5.20	2.01	1.11	1.74
(WY)	1940	1979	1979	1979	1940	1944	1978	1946	1976	1939	1940	1939

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1939 - 1995

ANNUAL TOTAL	10305.7	22542		
ANNUAL MEAN	28.2	61.8		29.0
HIGHEST ANNUAL MEAN				72.1
LOWEST ANNUAL MEAN				8.21
HIGHEST DAILY MEAN	170	May 9	576	May 17
LOWEST DAILY MEAN	9.1	Sep 12	11	Jan 23
ANNUAL SEVEN-DAY MINIMUM	9.8	Sep 7	12	Apr 2
INSTANTANEOUS PEAK FLOW			1470	Jun 2
INSTANTANEOUS PEAK STAGE			9.19	Jun 2
ANNUAL RUNOFF (AC-FT)	20440	44710		21010
10 PERCENT EXCEEDS	67	142		58
50 PERCENT EXCEEDS	19	25		16
90 PERCENT EXCEEDS	12	14		4.5

a-From rating curve extended above 100 ft³/s, on basis of a slope-area measurement of peak flow.

07104000 MONUMENT CREEK AT PIKEVIEW, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 12...	1305	26	540	8.5	17.0	7.4	0.6	45	110	69	8.7
NOV 30...	1350	13	466	7.6	1.0	11.6	1.0	77	160	55	7.2
DEC 28...	1140	29	481	7.8	0.0	11.6	<0.7	27	68	61	7.7
JAN 18...	1230	26	505	--	0.0	11.3	0.5	K9	28	66	8.5
FEB 22...	1400	15	486	8.4	11.5	8.5	0.4	K4	44	57	7.3
MAR 22...	1215	15	433	8.4	11.0	8.6	1.0	K3	29	50	6.7
APR 19...	1215	94	404	8.2	3.0	10.2	4.2	K510	K770	32	3.9
MAY 24...	1330	333	200	7.8	8.0	8.9	2.3	K260	160	21	3.1
JUN 21...	1215	64	320	8.3	19.5	7.0	0.8	210	260	39	5.3
JUL 26...	1200	66	382	8.2	21.0	6.8	1.1	160	230	47	6.5
AUG 16...	1300	25	481	8.4	25.0	6.6	1.0	520	350	60	7.7
SEP 27...	1230	34	442	8.4	16.5	7.6	0.8	270	410	56	7.3

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
OCT 12...	150	84	24	1.1	104	<0.01	2.5	<0.015	0.3	0.05
NOV 30...	121	67	23	1.0	648	0.02	2.5	0.20	0.9	0.17
DEC 28...	128	69	23	1.0	146	0.02	2.9	0.08	0.3	0.09
JAN 18...	135	76	25	1.0	80	0.02	3.1	0.21	0.7	0.13
FEB 22...	118	71	24	1.1	91	0.01	2.4	<0.015	0.4	0.12
MAR 22...	109	59	22	1.3	61	0.02	1.9	0.03	0.4	0.18
APR 19...	81	32	52	0.6	660	0.01	1.0	0.22	1.1	0.08
MAY 24...	45	23	9.8	1.4	300	0.01	0.44	0.26	1.0	0.07
JUN 21...	77	48	16	1.3	122	<0.01	1.2	0.02	0.5	0.07
JUL 26...	99	55	20	1.0	101	<0.01	1.5	<0.015	0.5	0.11
AUG 16...	119	72	25	0.9	114	<0.01	2.1	<0.015	0.6	0.09
SEP 27...	115	61	21	1.1	71	<0.01	1.8	<0.015	0.4	0.12

K Based on non-ideal colony counts.

ARKANSAS RIVER BASIN

07104000 MONUMENT CREEK AT PIKEVIEW, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 12...	<1	<1	<1	<1	<1	3	<1	1700	4
NOV 30...	<1	<1	3	<1	<1	7	1	8300	14
DEC 28...	<1	<1	6	<1	<1	3	<1	2200	18
JAN 18...	<1	<1	<1	<1	<1	3	<1	1300	22
FEB 22...	<1	<1	<1	<1	1	3	<1	1300	12
MAR 22...	<1	<1	<1	<1	<1	2	1	830	28
APR 19...	<1	<1	6	<1	2	13	<1	9100	28
MAY 24...	<1	<1	1	<1	1	4	1	3500	--
JUN 21...	<1	<1	<1	<1	<1	3	2	2200	97
JUL 26...	<1	<1	<1	<1	<1	3	1	1300	40
AUG 16...	<1	<1	<1	<1	<1	2	1	2000	15
SEP 27...	<1	<1	<1	<1	<1	3	<1	1800	20

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 12...	2	<1	70	33	3	1	20	3
NOV 30...	13	<1	380	30	6	1	60	6
DEC 28...	4	<1	120	46	2	2	20	9
JAN 18...	2	<1	90	50	2	<1	10	<3
FEB 22...	2	<1	70	36	2	<1	<10	<3
MAR 22...	1	<1	70	29	1	1	<10	<3
APR 19...	27	<1	330	28	8	<1	90	<3
MAY 24...	7	<1	140	30	2	<1	30	<3
JUN 21...	3	<1	110	29	2	1	10	<3
JUL 26...	3	<1	100	17	3	1	<10	<3
AUG 16...	2	<1	90	11	2	1	10	<3
SEP 27...	2	<1	50	10	1	1	10	<10

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 1994 04...	1337	118	244	14.5	APR 1995 27...	1230	49	400	9.5
19...	1250	23	537	13.5	MAY 08...	1420	128	245	12.0
NOV 30...	1505	26	470	2.5	JUL 06...	1445	109	211	23.0
JAN 1995 09...	1550	20	445	0.5	25...	1410	60	374	22.5
FEB 24...	1310	15	493	11.5	AUG 29...	1310	30	459	25.0
MAR 29...	1445	21	653	4.5					

07104000 MONUMENT CREEK AT PIKEVIEW, CO--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WILL BE PUBLISHED IN A SUBSEQUENT REPORT

ARKANSAS RIVER BASIN

07104905 MONUMENT CREEK AT BIJOU STREET, AT COLORADO SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°50'14", long 104°49'44", in NW¹/4NW¹/4 sec.18, T.14 S., R.66 W., El Paso County, Hydrologic Unit 11020003 at bridge on Bijou Street in Colorado Springs.

PERIOD OF RECORD.--December 1979 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 12...	1515	17	769	8.5	18.5	7.1	0.3	90	110	99	17
NOV 30...	1630	41	613	8.3	1.0	11.6	1.6	K40	200	69	12
DEC 28...	1335	14	578	7.8	3.5	10.3	<1.1	K20	100	76	15
JAN 18...	1415	13	901	--	0.0	11.2	0.1	K24	K35	110	23
FEB 22...	1630	18	740	8.4	11.5	8.4	0.3	K32	110	83	15
MAR 22...	1430	18	666	8.5	16.0	7.5	0.6	K8	53	74	14
APR 19...	1515	178	450	8.2	3.0	10.3	5.5	570	K1000	36	5.6
MAY 24...	1615	305	254	7.7	8.5	9.0	2.2	300	87	27	4.6
JUN 21...	1445	94	444	8.4	23.0	6.5	0.8	300	300	52	9.1
JUL 26...	1415	71	549	8.4	25.0	6.4	1.0	210	140	66	12
AUG 17...	0855	35	728	8.4	16.0	7.6	0.7	1100	1800	88	16
SEP 27...	1415	37	647	8.3	19.0	7.3	0.2	K70	210	75	14

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
OCT 12...	186	170	29	1.3	99	<0.01	3.9	<0.015	0.30	0.04
NOV 30...	141	120	25	1.2	1	0.02	3.5	0.15	0.70	0.10
DEC 28...	149	160	21	1.2	308	0.01	3.2	0.03	0.50	0.04
JAN 18...	197	240	28	1.4	164	0.02	4.8	0.06	0.40	0.06
FEB 22...	154	160	28	1.2	123	0.01	3.9	0.02	0.40	0.09
MAR 22...	139	140	27	1.4	103	0.02	3.0	0.02	0.40	0.12
APR 19...	88	54	49	0.5	1070	0.02	1.5	0.23	1.5	0.06
MAY 24...	56	38	11	1.5	348	0.02	0.72	0.19	0.80	0.07
JUN 21...	97	86	18	1.5	158	<0.01	2.0	0.02	0.50	0.06
JUL 26...	125	110	23	1.3	124	<0.01	2.8	<0.015	0.50	0.10
AUG 17...	163	150	27	1.2	141	0.01	4.0	<0.015	0.30	0.06
SEP 27...	146	130	25	1.4	76	<0.01	3.3	<0.015	0.40	0.08

K-Based on non-ideal colony counts.

07104905 MONUMENT CREEK AT BIJOU STREET, AT COLORADO SPRINGS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 12...	<1	<1	2	<1	<1	4	<1	2300	5
NOV 30...	<1	<1	4	<1	<1	9	1	9200	<3
DEC 28...	<1	<1	5	<1	<1	7	1	1300	<3
JAN 18...	<1	<1	3	1	<1	4	1	3000	<3
FEB 22...	<1	<1	2	<1	<1	4	1	2300	<3
MAR 22...	<1	<1	2	<1	<1	3	2	2200	<3
APR 19...	<1	<1	12	<1	1	23	1	20000	12
MAY 24...	<1	<1	3	<1	<1	6	1	7900	--
JUN 21...	<1	<1	2	<1	<1	4	2	3400	21
JUL 26...	<1	<1	2	<1	<1	4	1	3100	4
AUG 17...	<1	<1	1	<1	<1	3	1	2400	5
SEP 27...	<1	<1	1	<1	<1	3	<1	2000	<10

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 12...	3	<1	60	4	4	1	20	4
NOV 30...	13	<1	260	7	7	2	60	<3
DEC 28...	7	<1	160	5	7	1	30	4
JAN 18...	4	<1	80	6	4	<1	20	<3
FEB 22...	3	<1	60	6	3	2	10	<3
MAR 22...	3	3	60	4	3	2	10	<3
APR 19...	42	<1	500	8	17	<1	160	<3
MAY 24...	13	<1	260	10	5	<1	50	<3
JUN 21...	4	<1	100	3	3	2	10	<3
JUL 26...	3	<1	80	2	3	2	<10	<3
AUG 17...	3	<1	80	2	3	1	20	6
SEP 27...	2	<1	<10	<10	2	1	10	<10

07105000 BEAR CREEK NEAR COLORADO SPRINGS, CO

LOCATION.--Lat 38°49'21", long 104°53'17", in NE¹/4NE¹/4 sec.21, T.14 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank, 30 ft east of 26th Street, 0.6 mi southwest of Bear Creek Nature Center, and 3.4 mi upstream from mouth.

DRAINAGE AREA.--6.89 mi².

PERIOD OF RECORD.--May 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,520 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 13 to Mar. 9, Apr. 21-24, and June 14-21. Records good except those for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	1.7	1.8	1.5	1.4	1.6	2.8	4.4	27	9.8	4.8	2.2
2	3.0	1.9	1.6	1.5	1.4	1.5	2.1	5.5	27	9.2	4.6	2.2
3	3.0	2.4	1.6	1.4	1.5	1.4	1.6	8.9	24	9.4	4.4	2.2
4	3.9	2.0	1.6	1.4	1.5	1.4	1.8	6.9	22	9.2	4.4	2.1
5	1.2	1.7	1.6	1.4	1.5	1.4	1.9	8.6	22	9.3	4.3	2.1
6	1.7	1.8	1.9	1.4	1.4	1.4	2.0	13	21	8.8	4.2	2.1
7	2.9	1.6	1.9	1.4	1.4	1.4	1.9	9.5	20	8.3	4.0	2.6
8	3.3	1.5	1.8	1.4	1.4	1.4	1.9	12	20	8.0	3.9	2.7
9	3.8	1.3	1.6	1.4	1.4	1.5	1.5	12	19	8.3	4.0	3.1
10	4.2	1.6	1.6	1.4	1.4	1.5	1.1	11	18	8.5	3.8	3.1
11	4.0	1.9	1.6	1.4	1.3	2.1	1.8	11	17	9.2	3.9	2.9
12	3.9	1.8	1.6	1.4	1.3	1.9	2.7	10	16	9.4	4.3	2.7
13	3.7	1.8	1.5	1.5	1.3	1.6	2.0	10	15	9.4	4.1	2.5
14	3.3	1.6	1.5	1.5	1.3	1.6	1.4	10	14	8.7	4.0	2.4
15	3.3	1.4	1.5	1.6	1.3	1.5	2.4	9.6	13	8.1	3.9	2.4
16	2.8	2.0	1.5	1.6	1.3	1.7	1.8	9.9	13	7.9	3.6	2.4
17	3.0	1.7	1.6	1.6	1.3	2.0	.97	20	13	7.9	3.5	2.5
18	2.4	1.4	1.6	1.6	1.4	1.8	1.1	36	12	7.4	3.6	2.5
19	2.2	1.5	1.6	1.5	1.4	1.8	.97	35	11	7.1	6.2	2.6
20	2.6	1.9	1.6	1.5	1.5	1.6	1.0	35	10	7.2	4.6	2.6
21	2.2	2.0	1.7	1.5	1.5	1.6	1.4	31	9.8	6.7	4.4	2.8
22	2.0	1.8	1.7	1.4	1.6	1.6	1.6	30	9.6	6.5	4.2	2.9
23	2.4	1.8	1.6	1.4	1.7	1.5	1.8	30	10	6.4	4.0	2.9
24	2.0	1.9	1.5	1.4	1.8	1.6	1.6	27	10	6.3	3.9	2.8
25	2.1	1.9	1.5	1.3	1.9	1.9	1.5	25	9.6	6.0	3.8	2.8
26	1.8	1.9	1.5	1.3	1.9	1.8	4.0	25	9.0	5.8	3.6	2.8
27	1.4	1.9	1.5	1.3	1.8	1.7	3.8	25	8.8	5.5	3.5	2.8
28	1.4	1.9	1.5	1.4	1.7	2.3	3.2	25	8.7	5.0	3.5	2.7
29	3.5	1.9	1.5	1.4	---	3.0	5.2	27	9.2	4.9	3.3	2.6
30	3.8	2.0	1.5	1.5	---	3.9	6.5	32	9.6	4.9	3.0	2.7
31	2.1	---	1.5	1.5	---	4.0	---	31	---	5.0	2.6	---
TOTAL	85.7	53.5	49.6	44.8	41.6	57.0	65.34	586.3	448.3	234.1	123.9	77.7
MEAN	2.76	1.78	1.60	1.45	1.49	1.84	2.18	18.9	14.9	7.55	4.00	2.59
MAX	4.2	2.4	1.9	1.6	1.9	4.0	6.5	36	27	9.8	6.2	3.1
MIN	1.2	1.3	1.5	1.3	1.3	1.4	.97	4.4	8.7	4.9	2.6	2.1
AC-FT	170	106	98	89	83	113	130	1160	889	464	246	154

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	1.26	.97	.96	.92	.90	1.06	1.83	10.9	5.39	3.00	2.14	1.63
MAX	2.76	1.78	1.60	1.45	1.49	1.84	3.01	18.9	14.9	7.55	4.00	3.05
(WY)	1995	1995	1995	1995	1995	1995	1994	1995	1995	1995	1995	1994
MIN	.37	.14	.17	.30	.36	.52	.31	.87	.47	.30	.55	.30
(WY)	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1992

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1992 - 1995

ANNUAL TOTAL	1187.34	1867.84		
ANNUAL MEAN	3.25	5.12	2.83	
HIGHEST ANNUAL MEAN			5.12	1995
LOWEST ANNUAL MEAN			.41	1993
HIGHEST DAILY MEAN	25	May 10	36	May 18 1995
LOWEST DAILY MEAN	.56	Mar 27	a .97	Apr 17 1992
ANNUAL SEVEN-DAY MINIMUM	.67	Mar 24	1.3	Apr 16 1992
INSTANTANEOUS PEAK FLOW			46	May 19 1995
INSTANTANEOUS PEAK STAGE			1.81	May 19 1995
ANNUAL RUNOFF (AC-FT)	2360	3700	2050	
10 PERCENT EXCEEDS	5.9	11	5.9	
50 PERCENT EXCEEDS	2.2	2.2	1.2	
90 PERCENT EXCEEDS	.86	1.4	.20	

a-Also occurred Apr 19.

07105490 CHEYENNE CREEK AT EVANS AVENUE AT COLORADO SPRINGS, CO

LOCATION.--Lat 38°47'26", Long 104°51'49", SW¹/4NW¹/4 sec.35, T.14 S., R.67W., El Paso County, Hydrologic Unit 11020003, on right bank 23 ft upstream from Evans Avenue, 30 ft downstream from the confluence of North and South Cheyenne Creeks, and 3.1 mi upstream from the mouth.

DRAINAGE AREA.--21.7 mi².

PERIOD OF RECORD.--April 1992 to current year.

REVISED RECORDS.--WDR CO-93-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,280 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	5.4	4.1	3.7	2.7	2.1	3.9	50	145	53	17	7.3
2	5.2	4.9	4.1	3.9	2.7	2.6	4.0	46	137	53	18	7.3
3	5.3	4.9	4.1	3.7	2.7	2.7	3.1	48	136	51	17	7.1
4	8.6	4.9	4.1	3.5	2.7	2.7	2.5	44	135	50	17	6.8
5	7.4	4.9	4.1	3.5	2.7	2.7	2.6	51	135	47	16	7.1
6	5.4	4.9	4.1	3.7	2.7	2.7	2.7	69	134	40	16	6.8
7	6.4	4.9	4.1	3.6	2.7	2.8	2.8	64	133	35	15	8.1
8	5.7	4.9	3.9	3.0	2.8	3.2	2.6	54	132	39	15	7.8
9	5.5	4.9	3.7	2.8	2.7	3.4	2.9	49	131	37	14	9.0
10	6.1	4.2	3.8	2.8	2.6	4.0	2.9	47	127	35	14	8.9
11	5.2	3.1	4.0	2.7	2.5	4.7	3.2	45	101	31	13	8.6
12	5.1	3.1	3.8	2.8	2.6	4.6	3.6	48	92	28	14	8.2
13	5.2	3.1	3.7	2.9	3.0	3.4	4.8	44	87	28	13	7.8
14	5.4	3.8	3.7	3.0	3.7	2.7	7.3	46	85	28	15	7.6
15	10	4.1	3.7	3.0	3.5	2.7	11	48	87	27	14	7.4
16	7.8	4.6	3.7	2.9	3.5	3.8	9.5	57	87	26	10	7.1
17	9.1	4.5	3.7	3.1	3.4	4.8	7.8	102	87	28	11	7.2
18	8.3	4.1	3.7	3.2	3.4	4.5	7.1	118	89	31	12	7.4
19	7.9	4.2	3.7	3.3	3.1	4.4	9.5	123	84	28	32	7.6
20	7.6	4.7	3.7	3.4	3.2	3.8	8.6	127	80	25	20	7.6
21	7.4	4.5	3.7	3.3	3.3	3.4	6.9	127	73	27	18	8.3
22	7.2	4.3	3.7	3.1	3.0	3.4	7.1	120	68	25	14	7.0
23	6.9	4.2	3.7	2.9	2.7	3.4	6.5	115	66	25	12	5.4
24	6.9	5.1	3.7	3.1	2.6	3.4	7.6	107	59	24	13	5.6
25	6.8	4.4	3.7	3.4	2.6	3.4	11	101	54	22	12	6.6
26	7.0	4.3	3.7	3.4	2.9	3.4	16	94	52	21	9.7	6.4
27	7.6	3.8	3.7	3.2	2.7	3.4	14	89	48	18	8.6	5.7
28	8.0	3.9	3.7	3.1	2.6	3.2	15	87	48	14	7.3	5.5
29	7.8	3.8	4.0	2.6	---	3.7	26	113	50	17	8.2	5.8
30	8.0	4.4	4.0	2.7	---	3.5	44	168	52	17	8.6	5.9
31	6.8	---	3.9	2.7	---	3.7	---	167	---	17	8.3	---
TOTAL	212.9	130.8	119.0	98.0	81.3	106.2	256.5	2568	2794	947	432.7	214.9
MEAN	6.87	4.36	3.84	3.16	2.90	3.43	8.55	82.8	93.1	30.5	14.0	7.16
MAX	10	5.4	4.1	3.9	3.7	4.8	44	168	145	53	32	9.0
MIN	5.1	3.1	3.7	2.6	2.5	2.1	2.5	44	48	14	7.3	5.4
AC-FT	422	259	236	194	161	211	509	5090	5540	1880	858	426

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

	1992	1993	1994	1995
MEAN	3.31	3.03	2.33	2.12
MAX	6.87	4.36	3.84	3.16
(WY)	1995	1995	1995	1994
MIN	.73	.84	.46	.91
(WY)	1993	1993	1993	1993

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1992 - 1995	
ANNUAL TOTAL	5619.0		7961.3			
ANNUAL MEAN	15.4		21.8		12.7	
HIGHEST ANNUAL MEAN					21.8	
LOWEST ANNUAL MEAN					1.40	
HIGHEST DAILY MEAN	175	May 10	168	May 30	175	May 10 1994
LOWEST DAILY MEAN	1.4	Feb 25	2.1	Mar 1	.10	Apr 8 1993
ANNUAL SEVEN-DAY MINIMUM	1.5	Feb 24	2.6	Feb 24	.23	Mar 6 1993
INSTANTANEOUS PEAK FLOW			185		203	
INSTANTANEOUS PEAK STAGE			1.94		2.03	
ANNUAL RUNOFF (AC-FT)	11150		15790		9200	
10 PERCENT EXCEEDS	36		71		28	
50 PERCENT EXCEEDS	6.1		6.4		3.6	
90 PERCENT EXCEEDS	2.1		2.8		.60	

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO

LOCATION.--Lat 38°48'59", long 104°49'20", in NE¹/4SW¹/4 sec.19, T.14 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on left bank 31 ft upstream from bridge on Nevada Ave. in Colorado Springs, 100 ft downstream from mouth of Cheyenne Creek, and 1.3 mi downstream from Monument Creek.

DRAINAGE AREA.--392 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1921 to September 1924, January 1976 to current year. Monthly discharge only for some periods, published in WSP 1311. Statistical summary computed for 1976 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,900 ft above sea level, from topographic map. Prior to Oct. 1, 1972, nonrecording gage at same site at different datum.

REMARKS.--Estimated daily discharges: May 26-30. Records good except for estimated daily discharges and those above 1000 ft³/s, which are poor. Natural flow of stream affected by storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation and municipal use, return flow from irrigated areas and discharges from sewage treatment plants.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	191	34	49	22	27	21	27	156	829	711	129	49
2	138	32	41	24	24	32	25	161	835	438	105	58
3	302	35	35	23	23	68	25	163	819	418	100	64
4	573	42	36	15	21	42	23	150	942	412	128	45
5	116	42	33	27	21	34	22	656	757	374	96	41
6	55	34	30	32	23	66	22	333	643	331	91	53
7	40	30	26	29	21	32	23	260	571	302	83	129
8	65	32	23	37	24	29	24	234	717	282	80	88
9	41	38	27	31	23	30	91	216	644	270	75	232
10	39	35	28	30	24	30	67	197	590	248	76	212
11	34	33	40	26	18	30	37	185	503	221	87	167
12	32	30	35	24	14	29	37	199	434	201	115	138
13	32	29	39	26	33	33	40	207	384	194	89	111
14	36	28	32	26	133	29	51	197	384	302	91	87
15	342	32	28	30	62	26	49	184	386	319	93	69
16	57	32	32	26	34	54	52	238	376	290	71	52
17	170	40	35	19	29	41	128	1940	444	259	67	46
18	66	33	30	19	30	34	165	761	463	270	97	67
19	55	32	28	24	28	31	213	714	353	295	400	86
20	49	59	26	23	28	30	113	673	317	286	130	66
21	48	40	29	22	27	28	151	698	292	254	122	81
22	47	32	28	22	29	28	104	758	271	224	204	68
23	46	29	27	21	26	28	70	773	406	247	181	65
24	45	32	29	27	24	24	92	811	307	211	170	68
25	42	34	28	31	25	27	73	791	274	179	144	74
26	44	36	31	31	24	33	198	800	241	156	147	77
27	42	27	27	28	23	29	83	700	245	139	110	68
28	49	20	28	25	25	36	86	650	414	121	87	57
29	46	20	30	25	---	31	146	1300	390	114	94	59
30	56	47	32	22	---	31	146	1350	428	112	80	63
31	45	---	21	26	---	29	---	999	---	119	78	---
TOTAL	2943	1019	963	793	843	1045	2383	17454	14659	8299	3620	2540
MEAN	94.9	34.0	31.1	25.6	30.1	33.7	79.4	563	489	268	117	84.7
MAX	573	59	49	37	133	68	213	1940	942	711	400	232
MIN	32	20	21	15	14	21	22	150	241	112	67	41
AC-FT	5840	2020	1910	1570	1670	2070	4730	34620	29080	16460	7180	5040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	42.7	35.2	28.3	26.1	25.3	37.4	71.1	182	115	72.9	75.5	41.0									
MAX	212	143	81.3	61.6	56.6	83.6	166	767	489	268	167	84.7									
(WY)	1985	1985	1985	1985	1985	1985	1985	1985	1985	1985	1983	1995									
MIN	10.6	11.4	11.8	5.12	6.27	11.4	14.8	23.5	16.3	12.9	20.9	7.98									
(WY)	1978	1979	1979	1979	1979	1976	1978	1976	1976	1976	1993	1978									

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1976 - 1995	
ANNUAL TOTAL	26330.9		56561			
ANNUAL MEAN	72.1		155		64.8	
HIGHEST ANNUAL MEAN					155	
LOWEST ANNUAL MEAN					23.2	
HIGHEST DAILY MEAN	721	May 9	1940	May 17	1940	May 17 1995
LOWEST DAILY MEAN	7.6	Feb 17	14	Feb 12	2.0	Aug 19 1978
ANNUAL SEVEN-DAY MINIMUM	8.1	Feb 12	21	Feb 6	3.3	Jan 3 1979
INSTANTANEOUS PEAK FLOW			4560	May 17	^a 10100	Sep 2 1994
INSTANTANEOUS PEAK STAGE			7.71	May 17	^b 12.12	Sep 2 1994
ANNUAL RUNOFF (AC-FT)	52230		112200		46980	
10 PERCENT EXCEEDS	174		413		134	
50 PERCENT EXCEEDS	36		53		31	
90 PERCENT EXCEEDS	20		24		14	

a-From slope-area measurement of peak flow.

b-From floodmark.

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 13...	1100	33	738	8.3	11.0	8.8	0.3	93	250	82	18
DEC 01...	1025	54	592	8.1	2.0	11.1	0.8	K56	410	62	13
DEC 29...	0950	13	720	7.6	0.5	11.7	0.2	62	K90	77	18
JAN 19...	1115	16	784	7.9	0.5	11.7	0.4	K37	85	84	21
FEB 23...	1015	28	750	7.8	4.5	10.4	0.3	K11	75	81	17
MAR 23...	1015	30	699	8.2	6.0	9.8	0.5	K15	64	71	17
APR 20...	1000	92	484	8.1	3.5	10.3	1.4	68	170	46	9.3
MAY 25...	1015	785	246	7.8	7.0	9.3	2.1	>600	630	26	4.8
JUN 22...	1045	275	325	8.1	14.0	7.7	1.4	>600	330	35	7.1
JUL 27...	1015	149	378	8.0	13.0	8.4	0.8	K690	K620	40	8.8
AUG 17...	1145	70	564	8.4	18.0	7.5	0.8	220	620	62	13
SEP 28...	1025	59	585	8.4	11.5	8.7	0.6	K580	280	62	15

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SULFIDE TOTAL (MG/L AS S)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
OCT 13...	171	170	27	2.0	--	53	<0.01	2.9	<0.015	0.2	0.02
DEC 01...	134	120	24	2.1	<0.5	152	0.02	2.7	0.13	0.4	0.06
DEC 29...	152	170	25	2.3	--	32	0.01	3.0	0.03	<0.2	0.03
JAN 19...	160	200	26	2.4	--	47	0.01	3.2	0.03	0.2	0.04
FEB 23...	152	170	28	1.7	--	83	0.02	3.4	0.03	0.3	0.06
MAR 23...	138	160	26	1.8	--	86	0.02	2.6	0.02	0.3	0.08
APR 20...	99	79	30	1.8	--	162	0.01	1.3	0.10	0.5	0.06
MAY 25...	55	36	9.5	1.9	<0.5	224	0.02	0.74	0.12	0.7	0.05
JUN 22...	72	58	13	2.2	--	94	<0.01	1.4	<0.015	0.3	0.02
JUL 27...	82	67	14	2.4	--	61	<0.01	1.5	<0.015	0.3	0.04
AUG 17...	119	120	20	2.2	--	55	<0.01	2.5	<0.015	<0.2	0.05
SEP 28...	129	120	20	2.4	--	30	--	--	--	0.2	--

K-Based on non-ideal colony counts.

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT 13...	--	--	--	--	<1	<1	1	<1	<1	2	<1	1200
DEC 01...	2	1	80	70	<1	<1	2	<1	<1	4	1	3300
29...	--	--	--	--	<1	<1	1	<1	<1	2	<1	670
JAN 19...	--	--	--	--	<1	<1	1	<1	<1	2	<1	920
FEB 23...	--	--	--	--	<1	<1	1	<1	<1	3	<1	1700
MAR 23...	--	--	--	--	<1	<1	2	<1	<1	3	2	2000
APR 20...	--	--	--	--	<1	<1	3	<1	2	4	<1	3600
MAY 25...	2	<1	40	20	<1	<1	3	<1	<1	5	1	5300
JUN 22...	--	--	--	--	<1	<1	1	<1	<1	2	<1	2800
JUL 27...	--	--	--	--	<1	<1	<1	<1	<1	<1	<1	1500
AUG 17...	--	--	--	--	<1	<1	<1	<1	<1	2	<1	1000
SEP 28...	--	--	--	--	<1	<1	<1	<1	<1	1	<1	910

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
OCT 13...	4	2	<1	60	27	2	1	--	20	<3	--
DEC 01...	7	5	<1	110	14	3	1	--	20	<3	<0.01
29...	5	2	<1	50	28	2	1	--	<10	<3	--
JAN 19...	6	2	<1	70	33	2	<1	--	10	<3	--
FEB 23...	<3	2	<1	70	24	2	1	--	10	<3	--
MAR 23...	3	3	<1	80	17	3	1	--	10	4	--
APR 20...	12	5	<1	110	10	4	<1	--	30	3	--
MAY 25...	160	11	<1	230	13	4	<1	1	40	3	<0.01
JUN 22...	43	4	<1	110	15	2	<1	2	20	<3	--
JUL 27...	15	2	<1	80	14	2	<1	3	10	<3	--
AUG 17...	23	1	<1	60	16	2	1	4	10	5	--
SEP 28...	<10	1	<1	30	10	<1	<1	4	10	<10	--

07105500 FOUNTAIN CREEK AT COLORADO SPRINGS, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 1994					MAY 1995				
03...	1525	28	241	14.5	12...	1150	197	380	12.5
06...	1325	55	653	16.0	19...	1200	764	258	10.5
18...	1100	64	475	8.0	JUN				
DEC					02...	1200	690	332	12.5
02...	1440	43	611	6.5	14...	1045	392	352	13.5
22...	1435	37	712	5.0	28...	1340	238	392	17.0
JAN 1995					JUL				
13...	1430	40	480	3.5	18...	1610	310	283	17.5
26...	1140	42	710	1.0	25...	1400	173	432	19.5
FEB					AUG				
16...	1230	27	548	2.0	17...	1425	68	695	24.0
MAR					22...	1330	114	550	22.5
20...	1235	32	730	13.0	SEP				
APR					15...	1320	72	591	19.0
20...	1540	138	580	8.0	26...	1415	78	588	15.5

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WILL BE PUBLISHED IN A SUBSEQUENT REPORT

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD BELOW COLORADO SPRINGS, CO

LOCATION.--Lat 38°48'11", long 104°47'43", in NE¹/4SE¹/4 sec.29, T.14 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on right bank at upstream side of bridge on Janitell Road below Colorado Springs.

DRAINAGE AREA.--413 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,840 ft above sea level, from topographic map. Prior to July 10, 1990, at site 500 ft upstream, at datum 2.00 ft, higher.

REMARKS.--Estimated daily discharges: May 29-31. Records good except for estimated daily discharges, and those above 1,200 ft³/s, which are poor. Natural flow of stream affected by storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation and municipal use, return flow from irrigated areas, and flows from sewage treatment plants.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	665	94	89	96	72	83	101	242	1140	768	176	79
2	234	88	91	99	77	88	99	233	1340	475	157	80
3	514	90	93	99	78	105	101	238	1280	456	147	86
4	922	93	94	93	79	97	100	239	1500	454	183	72
5	167	94	86	101	77	94	99	753	1280	401	147	69
6	131	90	80	103	75	118	98	578	1060	366	137	81
7	127	81	84	98	80	100	99	482	873	353	123	167
8	135	75	95	99	81	96	102	423	1110	352	116	117
9	107	92	104	103	78	95	147	377	991	342	113	326
10	109	98	102	102	77	101	132	332	827	325	130	185
11	91	97	113	98	74	100	114	270	672	298	143	146
12	87	94	110	91	69	104	109	253	579	266	149	128
13	83	94	115	92	76	106	108	254	505	255	126	123
14	85	98	110	89	136	105	104	243	466	378	127	138
15	425	87	108	88	88	104	103	244	462	349	123	149
16	128	74	109	87	84	125	102	314	456	329	96	132
17	210	76	111	79	83	109	153	4200	556	325	88	128
18	103	70	109	77	86	106	185	1650	604	324	145	153
19	84	73	108	81	84	106	208	1080	430	343	701	171
20	84	96	107	81	87	105	165	1050	390	331	169	145
21	85	77	106	80	89	100	241	1000	363	295	139	170
22	84	70	105	76	79	100	186	1040	346	278	232	161
23	83	88	103	75	88	101	156	1090	523	306	225	156
24	93	100	103	77	88	98	178	1120	434	271	225	160
25	98	102	98	77	86	101	161	1120	395	226	183	166
26	90	103	101	77	88	104	303	1110	345	200	181	134
27	94	100	102	76	86	100	179	980	331	184	140	107
28	102	72	103	75	87	108	177	853	602	168	116	96
29	102	69	104	82	---	106	263	1500	442	158	127	97
30	110	88	107	84	---	104	238	1600	449	159	107	105
31	102	---	100	77	---	103	---	1200	---	168	109	---
TOTAL	5534	2623	3150	2712	2332	3172	4511	26068	20751	9903	5080	4027
MEAN	179	87.4	102	87.5	83.3	102	150	841	692	319	164	134
MAX	922	103	115	103	136	125	303	4200	1500	768	701	326
MIN	83	69	80	75	69	83	98	233	331	158	88	69
AC-FT	10980	5200	6250	5380	4630	6290	8950	51710	41160	19640	10080	7990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
MEAN	86.9	77.2	61.9	69.7	78.7	94.7	116	266	217	135	118	94.2
MAX	179	106	102	90.8	95.4	131	150	841	692	319	164	134
(WY)	1995	1992	1995	1992	1992	1995	1995	1995	1995	1995	1995	1995
MIN	47.3	48.6	39.5	46.2	56.4	76.4	86.1	78.6	69.4	70.1	74.2	59.7
(WY)	1993	1990	1990	1990	1990	1991	1993	1993	1990	1993	1993	1992

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1990 - 1995

ANNUAL TOTAL	46609	89863		
ANNUAL MEAN	128	246		
HIGHEST ANNUAL MEAN				1995
LOWEST ANNUAL MEAN				1993
HIGHEST DAILY MEAN	1110	May 9	4200	May 17 1995
LOWEST DAILY MEAN	41	Sep 25	^a 69	Nov 29
ANNUAL SEVEN-DAY MINIMUM	47	Jan 6	76	Jan 22
INSTANTANEOUS PEAK FLOW			6630	May 17
INSTANTANEOUS PEAK STAGE			8.12	May 17
ANNUAL RUNOFF (AC-FT)	92450	178200		90770
10 PERCENT EXCEEDS	229	536		172
50 PERCENT EXCEEDS	94	108		82
90 PERCENT EXCEEDS	59	80		48

a-Also occurred Feb 12, and Sep 5.

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD, BELOW COLORADO SPRINGS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1975 to June 1976, May 1979 to September 1979, December 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1990 to current year.
 WATER TEMPERATURE: October 1990 to current year.
 pH: October 1990 to current year.
 DISSOLVED OXYGEN: October 1990 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Records for daily water temperature are good, those for daily specific conductance, daily pH, and daily dissolved oxygen are fair. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,710 microsiemens, Nov. 20, 1994; minimum, 114 microsiemens, May 9, 1994.
 WATER TEMPERATURE: Maximum, 25.1°C, July 16, 1993; minimum, 0.5°C, Jan. 15, 1992 and Mar. 10, 1992.
 pH: Maximum, 8.8 units, July 19, 1995; minimum, 6.7 units, July 26, 1995.
 DISSOLVED OXYGEN: Maximum, 11.3 mg/l, May 5, 1991; minimum, 4.4 mg/l, Mar. 28, 1991.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,710 microsiemens, Nov. 20; minimum, 117 microsiemens, May 23.
 WATER TEMPERATURE: Maximum, 23.4°C, Sept. 1; minimum, 2.0°C, Feb. 14.
 pH: Maximum, 8.8 units, July 19; minimum, 6.7 units, July 26.
 DISSOLVED OXYGEN: Maximum, 10.6 mg/l, Oct. 1 and Apr. 19; minimum, 4.9 mg/l, Sept. 4-5.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT											
13...	1225	95	848	7.9	17.0	6.9	15	140	K730	61	19
DEC											
01...	1245	104	796	7.9	9.5	8.9	9.1	57	K320	55	17
29...	1120	114	824	7.5	10.5	7.9	18	92	280	50	15
JAN											
19...	1245	106	868	7.5	10.5	8.6	11	67	77	55	17
FEB											
23...	1130	103	840	7.5	12.5	7.8	18	K450	>500	51	15
MAR											
23...	1130	114	823	7.8	13.5	8.5	10	K13	100	51	15
APR											
20...	1130	150	685	7.9	9.5	8.2	13	>300	>670	46	12
MAY											
25...	1230	1000	301	7.9	7.5	8.7	3.9	K3300	440	27	6.3
JUN											
22...	1200	361	365	8.0	15.5	7.4	2.8	>600	370	34	8.3
JUL											
27...	1200	206	567	7.9	18.5	7.3	5.3	480	1700	48	13
AUG											
17...	1330	99	812	8.0	21.0	6.1	14	260	470	63	19
SEP											
28...	1150	110	761	7.8	16.5	7.4	11	240	280	57	17

K - Based on non-ideal colony counts.

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD, BELOW COLORADO SPRINGS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SULFIDE TOTAL (MG/L AS S)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P)
OCT 13...	123	200	38	1.8	--	34	0.29	3.0	5.5	7.0	1.7
DEC 01...	111	170	35	1.8	<0.5	114	0.19	3.6	6.4	7.5	1.6
29...	96	170	44	2.0	--	39	0.09	3.0	7.7	9.9	1.6
JAN 19...	92	180	42	1.5	--	33	0.10	2.8	9.7	12	1.7
FEB 23...	94	170	41	1.6	--	34	0.11	2.1	9.6	11	2.1
MAR 23...	82	170	41	1.6	--	33	0.12	1.9	11	11	1.2
APR 20...	87	130	39	1.6	--	100	0.21	1.8	5.9	7.3	0.83
MAY 25...	56	54	12	2.2	<0.5	236	0.05	0.92	0.56	1.0	0.09
JUN 22...	67	72	14	2.4	--	84	0.20	1.2	0.17	1.3	0.05
JUL 27...	94	120	23	2.1	--	51	0.08	1.9	2.3	2.8	0.17
AUG 17...	118	190	32	1.7	--	38	0.29	2.5	4.0	5.6	0.18
SEP 28...	107	160	35	1.8	--	22	0.14	2.4	5.3	6.0	0.36

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DIS-SOLVED (UG/L AS CR)	CHROMIUM, HEXAVALENT, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
OCT 13...	--	--	--	--	<1	<1	2	2	<1	6	3	690
DEC 01...	2	1	140	150	<1	<1	2	1	<1	6	3	2200
29...	--	--	--	--	<1	<1	2	<1	<1	10	5	640
JAN 19...	--	--	--	--	<1	<1	2	<1	<1	8	4	640
FEB 23...	--	--	--	--	<1	<1	2	1	1	7	3	680
MAR 23...	--	--	--	--	<1	<1	1	<1	<1	4	4	630
APR 20...	--	--	--	--	<1	<1	2	<1	2	5	2	2000
MAY 25...	2	<1	40	30	<1	<1	3	<1	2	5	1	6100
JUN 22...	--	--	--	--	<1	<1	<1	<1	1	2	<1	1300
JUL 27...	--	--	--	--	<1	<1	<1	<1	<1	3	<1	1400
AUG 17...	--	--	--	--	<1	<1	<1	<1	<1	3	1	660
SEP 28...	--	--	--	--	<1	<1	<1	<1	<1	3	2	590

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD, BELOW COLORADO SPRINGS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
OCT 13...	73	2	<1	80	70	4	3	--	30	19	--
DEC 01...	39	4	<1	110	50	4	2	--	30	13	<0.01
29...	89	2	1	90	63	3	3	--	30	19	--
JAN 19...	82	2	<1	90	65	3	2	--	30	21	--
FEB 23...	120	2	<1	80	61	4	3	--	40	28	--
MAR 23...	61	2	<1	80	50	4	3	--	20	16	--
APR 20...	32	4	<1	100	38	3	2	3	30	10	--
MAY 25...	98	12	<1	250	15	5	<1	1	30	<3	<0.01
JUN 22...	39	2	<1	80	18	2	<1	2	10	<3	--
JUL 27...	20	2	<1	80	32	2	1	3	10	6	--
AUG 17...	27	1	<1	90	58	3	2	5	20	18	--
SEP 28...	40	1	<1	40	50	2	2	4	20	10	--

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	877	157	704	888	819	851	734	679	706	854	780	812
2	733	201	519	914	845	875	769	697	736	888	795	840
3	995	189	727	944	856	896	788	730	754	855	779	826
4	534	182	330	---	793	829	802	730	757	864	798	844
5	729	440	603	---	---	---	765	698	737	878	776	840
6	782	680	725	921	824	862	764	698	736	821	789	808
7	788	714	748	1030	834	891	812	718	755	854	752	806
8	825	588	690	1020	891	933	810	712	772	803	746	772
9	808	697	753	905	855	881	904	765	808	813	748	781
10	830	718	761	925	867	908	878	747	819	808	768	788
11	900	758	795	926	864	901	801	676	723	819	775	802
12	914	793	844	915	836	---	801	692	749	823	779	807
13	844	782	824	922	---	---	823	745	777	831	787	813
14	856	776	816	---	---	---	814	770	779	865	793	819
15	782	233	472	887	831	844	851	757	798	838	784	805
16	774	636	701	956	610	856	823	749	793	884	795	833
17	720	311	498	846	725	803	830	764	790	885	817	850
18	766	624	700	844	748	815	838	761	787	904	831	859
19	792	720	757	842	793	820	844	773	804	899	821	862
20	803	742	773	1710	695	911	844	774	805	901	823	864
21	815	759	786	862	762	831	826	764	796	919	840	881
22	851	781	807	855	796	832	849	768	801	915	833	868
23	847	768	793	858	803	825	856	789	813	939	827	875
24	878	760	797	861	778	815	846	786	808	933	785	871
25	832	775	794	---	---	806	836	775	799	835	715	783
26	818	732	777	---	---	820	842	774	802	808	743	780
27	865	767	811	883	776	821	857	787	815	825	773	800
28	872	803	829	896	823	854	834	780	815	864	778	813
29	872	797	823	885	828	859	849	785	810	822	772	796
30	892	737	817	844	683	769	835	761	796	846	763	803
31	845	737	793	---	---	---	854	784	812	830	781	812
MONTH	995	157	728	---	---	---	904	676	782	939	715	823

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD, BELOW COLORADO SPRINGS, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	852	786	814	---	582	783	846	796	814	---	---	---
2	839	769	815	---	---	---	856	793	816	---	---	---
3	821	768	799	---	---	---	869	795	825	---	---	---
4	829	769	802	---	---	809	880	826	852	467	442	453
5	820	736	786	---	---	745	913	842	878	605	185	363
6	831	736	792	---	---	---	922	856	884	377	201	291
7	834	785	809	---	---	---	906	857	884	421	272	325
8	1020	759	825	---	---	---	929	865	889	376	299	338
9	892	781	813	---	---	---	1320	569	841	382	310	353
10	829	764	800	---	---	---	929	586	759	406	282	355
11	830	764	814	---	---	---	828	767	789	431	328	386
12	---	---	---	---	---	---	825	721	775	476	327	394
13	---	---	---	---	---	---	803	723	774	457	347	406
14	---	---	---	---	---	---	774	691	735	476	374	431
15	---	---	---	---	---	---	733	624	692	579	411	501
16	---	---	---	---	---	---	779	570	706	601	330	525
17	---	---	---	---	---	---	738	444	595	356	176	273
18	---	---	---	---	---	---	705	381	561	348	238	289
19	---	---	---	---	---	---	780	429	539	288	225	262
20	---	---	---	---	---	---	669	552	607	258	144	202
21	---	---	---	---	---	---	624	410	499	219	190	203
22	---	---	---	---	---	---	677	511	615	207	167	188
23	---	---	---	489	383	439	---	---	---	196	117	162
24	---	---	---	804	758	787	726	570	664	---	---	---
25	846	---	785	809	753	782	759	666	708	---	---	---
26	948	684	742	825	760	786	671	285	541	---	---	---
27	831	714	762	818	754	788	704	572	640	---	---	---
28	922	536	776	978	763	850	708	559	621	---	---	---
29	---	---	---	872	788	825	604	---	---	---	---	---
30	---	---	---	883	796	838	---	---	---	357	266	325
31	---	---	---	853	805	823	---	---	---	344	302	327
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	325	228	279	---	---	---	533	438	496	759	678	730
2	---	---	---	---	---	---	587	506	551	775	668	733
3	366	286	337	---	---	---	616	523	576	749	634	687
4	359	321	339	---	---	---	634	422	549	793	716	752
5	---	---	---	---	---	---	617	368	541	772	736	750
6	---	---	---	---	---	---	---	---	---	751	667	706
7	---	---	---	461	383	439	---	---	---	691	390	562
8	---	---	---	463	362	418	---	---	---	663	554	621
9	368	332	347	485	383	433	---	---	---	685	233	545
10	373	307	336	502	405	456	752	722	737	610	318	514
11	380	314	343	532	390	449	894	582	704	616	526	580
12	385	311	355	532	374	462	715	526	627	651	549	614
13	402	339	372	516	425	472	700	511	633	689	592	651
14	385	332	360	477	269	413	726	599	658	709	621	676
15	442	316	355	428	284	367	663	545	606	733	615	691
16	363	313	332	434	307	383	681	619	653	802	687	749
17	---	---	---	440	271	386	699	631	672	818	725	779
18	406	254	323	455	351	403	727	354	680	815	606	776
19	399	303	338	473	278	416	---	---	---	719	565	660
20	393	313	350	494	361	423	---	---	---	764	660	721
21	391	326	364	464	373	426	---	---	---	761	622	708
22	410	332	372	507	413	459	---	---	---	784	685	746
23	456	337	381	505	377	442	---	---	---	845	671	785
24	---	---	---	509	387	460	---	---	---	827	652	770
25	---	---	---	526	417	491	---	---	---	805	629	751
26	---	---	---	549	450	510	---	---	---	750	656	694
27	---	---	---	580	465	530	---	---	---	710	625	678
28	---	---	---	598	500	561	675	---	---	754	658	716
29	---	---	---	610	517	570	651	527	601	760	685	727
30	---	---	---	614	522	576	678	546	633	737	709	811
31	---	---	---	617	495	554	703	560	640	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	845	233	696

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD, BELOW COLORADO SPRINGS, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	7.7	7.4	7.6
2	---	---	---	---	---	---	---	---	---	7.7	7.5	7.6
3	---	---	---	---	---	---	---	---	---	7.7	7.4	7.5
4	---	---	---	---	---	---	---	---	---	7.6	7.4	7.5
5	---	---	---	---	---	---	---	---	---	7.6	7.1	7.4
6	---	---	---	---	---	---	---	---	---	7.3	7.1	7.2
7	---	---	---	---	---	---	---	---	---	7.4	7.1	7.2
8	---	---	---	8.1	7.7	7.9	---	---	---	7.4	7.1	7.2
9	---	---	---	8.1	7.7	7.9	---	---	---	7.4	7.2	7.3
10	---	---	---	8.1	7.8	8.0	7.6	---	---	7.4	7.2	7.3
11	---	---	---	7.9	7.6	7.8	7.7	7.5	7.6	7.5	7.2	7.3
12	---	---	---	7.9	7.6	7.7	7.8	7.6	7.7	7.4	7.2	7.3
13	8.2	8.1	8.1	7.9	7.2	7.5	7.8	7.6	7.7	7.4	7.2	7.3
14	8.3	8.1	8.2	8.5	7.0	7.5	7.8	7.6	7.7	7.4	7.0	7.2
15	8.3	8.2	8.3	8.6	6.9	7.5	7.8	7.6	7.7	7.3	7.1	7.2
16	8.3	8.1	8.2	8.6	7.5	7.8	7.8	7.5	7.6	7.4	7.1	7.3
17	---	---	---	8.4	7.1	7.5	7.7	7.5	7.6	7.4	7.1	7.3
18	---	---	---	8.4	7.0	7.5	7.8	7.5	7.6	7.4	7.2	7.3
19	---	---	---	8.8	7.3	7.8	7.8	7.3	7.6	7.4	7.3	7.3
20	---	---	---	8.4	7.7	8.0	7.7	7.6	7.6	7.5	7.3	7.3
21	---	---	---	8.2	7.6	7.8	7.8	7.6	7.7	7.6	7.3	7.4
22	7.8	7.6	7.7	7.7	7.3	7.6	7.8	7.0	7.7	7.6	7.3	7.4
23	8.3	7.3	7.8	7.7	7.0	7.5	7.7	7.6	7.7	7.6	7.4	7.5
24	8.1	7.2	7.6	7.6	7.0	7.4	7.8	7.5	7.7	7.6	7.4	7.5
25	---	---	---	7.9	6.9	7.6	7.7	7.5	7.6	7.6	7.3	7.4
26	---	---	---	7.8	6.7	7.5	7.7	7.5	7.6	7.8	7.4	7.6
27	---	---	---	7.8	6.9	7.5	7.7	7.5	7.6	7.9	7.7	7.8
28	---	---	---	7.7	6.8	7.3	7.7	7.5	7.6	7.9	7.7	7.8
29	---	---	---	7.7	7.0	7.4	7.7	7.5	7.6	7.9	7.7	7.8
30	---	---	---	7.7	6.9	7.4	7.7	7.5	7.6	8.0	7.8	7.9
31	---	---	---	7.6	7.2	7.4	7.7	7.4	7.6	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	8.0	7.0	7.4

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	2.4	14.6	14.3	9.0	11.9	10.1	4.3	7.4	10.2	5.7	8.0
2	15.5	5.6	11.6	14.0	9.8	12.1	11.5	4.3	9.0	10.3	6.3	8.4
3	18.0	10.7	14.9	12.3	8.5	10.7	12.0	6.1	9.4	9.6	6.3	8.3
4	15.9	11.0	13.8	12.5	7.8	10.2	12.7	7.1	10.1	10.0	7.1	8.7
5	18.2	13.7	15.7	14.1	7.2	11.0	10.9	7.1	9.4	9.8	6.8	8.4
6	17.9	12.0	14.8	15.0	7.8	12.0	10.1	6.4	8.8	9.6	5.7	8.0
7	16.0	12.2	14.3	15.5	9.5	12.8	10.5	5.8	9.0	10.2	6.4	8.3
8	16.7	10.1	13.6	12.5	9.8	11.1	9.8	6.0	8.5	10.2	6.0	8.1
9	17.7	11.3	14.3	13.2	8.2	10.9	11.0	5.3	8.2	10.5	6.5	8.9
10	18.6	11.8	15.3	13.6	8.0	11.4	11.0	5.0	8.0	11.1	6.1	9.0
11	19.0	12.4	15.8	14.4	8.2	12.0	10.5	6.2	8.2	11.0	6.9	9.3
12	18.1	12.5	15.5	14.8	10.0	12.4	10.5	5.3	8.3	10.5	6.9	9.1
13	17.9	11.9	14.8	14.3	8.7	11.4	9.9	6.1	8.5	11.1	7.1	8.8
14	16.4	11.9	14.5	11.5	8.4	10.1	10.8	6.3	8.7	11.5	6.2	8.8
15	14.6	8.4	11.6	12.6	7.2	9.9	10.6	5.8	8.5	11.1	6.5	9.0
16	16.1	11.1	13.7	---	---	---	10.9	5.6	8.5	10.9	6.7	8.8
17	13.8	8.0	10.3	---	---	---	11.1	5.9	8.8	10.8	5.7	8.4
18	14.8	8.2	11.9	---	---	---	11.8	6.0	9.2	11.1	6.6	8.4
19	16.0	10.5	13.2	---	---	---	10.5	6.1	8.7	10.9	5.0	8.4
20	16.4	9.6	13.1	---	---	---	11.5	6.5	9.0	10.6	6.2	8.4
21	16.2	10.1	13.2	---	---	---	11.2	6.3	9.0	10.9	5.8	8.2
22	15.7	10.5	13.1	---	---	---	11.6	6.3	9.3	11.3	6.7	8.4
23	16.1	9.8	13.2	---	---	---	11.6	6.9	9.3	11.6	6.1	8.5
24	14.9	9.5	12.6	---	---	---	11.6	7.3	9.5	10.4	5.7	8.1
25	15.3	9.7	12.8	---	---	---	11.8	6.6	9.4	9.5	5.7	8.0
26	15.0	9.2	12.6	---	---	---	11.3	6.3	9.0	9.5	6.6	8.4
27	16.0	9.9	12.9	---	---	---	11.8	6.1	9.1	10.3	6.2	8.8
28	16.7	11.3	13.9	---	---	---	11.1	6.2	9.0	10.7	6.3	8.7
29	14.5	10.5	12.3	---	---	---	11.5	6.4	8.8	10.3	6.1	8.4
30	13.1	8.9	11.0	8.7	5.3	7.0	9.9	6.6	8.6	11.6	5.8	8.7
31	13.6	7.5	11.0	---	---	---	10.2	6.4	8.2	11.0	6.6	9.1
MONTH	19.0	2.4	13.4	---	---	---	12.7	4.3	8.8	11.6	5.0	8.5

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD, BELOW COLORADO SPRINGS, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.5	6.2	9.3	10.1	5.0	7.7	15.0	6.8	11.4	12.2	5.4	8.7
2	12.1	7.2	9.9	---	---	---	14.5	8.0	11.7	12.0	6.4	9.1
3	11.6	6.7	9.5	---	---	---	15.3	8.6	12.5	11.8	6.3	9.1
4	12.2	5.8	9.7	12.2	---	---	16.1	8.8	12.9	13.9	5.7	9.9
5	12.1	6.7	9.8	---	---	---	15.6	9.1	13.0	10.4	3.9	8.3
6	12.2	6.1	10.0	---	---	---	15.4	10.0	13.1	12.6	5.5	8.5
7	11.0	7.6	9.7	---	---	---	17.0	10.6	13.8	10.1	6.5	8.3
8	11.1	6.5	9.4	---	---	---	17.2	10.9	14.0	12.0	6.3	8.9
9	11.8	6.5	9.5	---	---	---	13.0	4.9	8.5	11.1	6.0	8.7
10	11.3	5.3	8.7	---	---	---	11.3	4.8	7.8	14.4	7.2	10.4
11	9.8	4.7	7.3	---	---	---	13.8	5.1	9.6	15.0	7.5	11.0
12	10.5	7.6	8.9	---	---	---	15.8	6.0	11.2	15.0	8.1	11.1
13	9.8	6.1	8.1	---	---	---	15.7	8.3	12.3	15.0	6.4	10.5
14	9.6	2.0	5.9	---	---	---	15.2	8.4	12.0	15.6	7.2	11.3
15	9.3	3.3	6.5	---	---	---	13.0	6.8	10.5	17.9	8.5	12.8
16	10.8	4.9	8.0	---	---	---	15.9	7.4	11.7	16.5	9.6	12.4
17	10.6	5.3	8.2	---	---	---	10.0	5.0	7.6	11.8	5.8	8.1
18	11.8	4.5	9.1	---	---	---	11.6	3.4	7.1	12.9	5.2	8.6
19	12.8	6.3	9.9	---	---	---	5.6	2.6	4.3	11.9	6.9	9.5
20	13.3	7.4	10.8	14.6	---	---	10.9	3.7	7.3	11.3	7.8	9.4
21	13.6	7.3	11.0	15.8	8.5	12.6	6.8	4.3	5.6	12.8	7.9	10.3
22	13.5	3.5	10.1	14.9	9.5	12.4	7.4	5.2	6.6	12.4	8.2	10.1
23	13.7	7.7	11.0	14.1	7.2	11.5	12.6	4.5	8.7	9.2	7.4	8.0
24	13.9	7.5	11.2	14.9	9.4	12.2	15.1	5.3	10.0	7.9	6.3	7.2
25	14.0	6.8	11.2	13.7	8.2	11.2	15.3	6.1	10.9	8.3	6.7	7.5
26	---	9.0	---	11.8	6.5	9.8	10.4	4.6	7.4	12.4	7.0	9.5
27	13.7	8.0	11.2	13.6	5.6	10.3	14.0	5.8	9.5	11.3	7.3	9.1
28	10.6	7.2	8.9	11.2	6.1	9.2	14.0	6.6	10.5	10.3	6.7	8.7
29	---	---	---	11.5	6.9	9.3	10.3	7.8	9.0	9.2	8.1	8.7
30	---	---	---	12.3	5.5	9.5	13.0	6.9	9.5	9.6	7.3	8.5
31	---	---	---	14.3	4.8	10.5	---	---	---	12.2	7.6	9.6
MONTH	---	2.0	---	---	---	---	17.2	2.6	10.0	17.9	3.9	9.4
		JUNE		JULY			AUGUST			SEPTEMBER		
1	13.6	7.6	10.5	---	---	---	20.2	13.3	16.3	23.4	16.5	19.9
2	13.7	8.6	11.1	---	---	---	21.0	14.1	17.6	22.8	16.9	19.5
3	13.4	9.8	11.3	---	---	---	19.5	14.3	17.1	22.7	16.0	19.3
4	13.2	7.1	10.5	---	---	---	20.6	14.1	17.5	22.4	16.5	19.6
5	14.8	8.5	11.4	---	---	---	21.3	14.6	17.6	22.3	16.7	19.7
6	15.8	9.4	12.4	---	---	---	---	13.7	---	22.1	16.9	19.3
7	14.0	9.1	11.6	18.9	15.1	17.4	---	---	---	18.4	15.8	16.6
8	12.6	10.5	11.4	18.9	12.4	15.6	---	---	---	18.2	14.5	16.5
9	14.2	9.3	11.5	18.0	12.9	15.4	---	---	---	18.9	15.1	16.7
10	11.6	9.3	10.6	18.7	12.6	15.7	23.1	---	---	16.7	14.2	15.6
11	15.7	9.2	12.1	19.9	12.8	16.3	22.9	17.3	20.1	18.5	13.3	16.3
12	17.3	9.7	13.3	20.1	13.3	16.7	21.7	17.2	19.3	19.9	12.8	16.5
13	16.8	10.6	13.6	20.2	13.1	16.5	21.8	16.7	19.3	19.9	13.5	17.0
14	16.0	11.0	13.7	18.4	13.4	15.8	19.0	16.7	17.9	19.0	14.0	16.8
15	16.3	11.4	13.8	19.2	13.2	16.2	22.2	14.6	18.5	20.0	13.6	17.2
16	14.4	10.3	12.4	19.6	13.8	16.6	22.5	15.8	19.2	20.6	14.4	17.6
17	13.4	9.3	11.1	17.8	14.3	15.7	22.3	16.4	19.3	19.8	14.4	17.4
18	16.1	10.4	13.2	17.1	13.8	15.3	22.2	16.5	19.6	18.6	14.5	16.9
19	17.4	10.8	13.8	17.5	13.3	15.6	20.7	16.7	18.6	17.3	13.6	15.5
20	17.1	11.0	13.9	19.3	13.0	16.0	22.2	16.0	18.6	17.1	13.0	14.7
21	17.0	10.9	13.8	16.7	13.1	15.2	21.6	16.0	18.6	13.0	8.7	11.2
22	17.4	10.9	14.0	18.2	12.9	15.7	22.1	15.7	18.8	16.2	9.3	13.0
23	15.7	12.4	13.8	16.9	13.2	15.2	22.6	16.1	19.2	17.0	10.5	13.9
24	15.6	10.8	13.3	18.1	12.4	15.3	22.1	16.1	19.1	14.1	11.2	12.9
25	16.7	10.5	13.6	20.3	12.3	16.2	20.8	16.3	18.7	16.9	9.3	13.5
26	17.5	11.0	14.1	21.0	13.1	17.0	22.5	15.9	19.0	16.7	9.9	13.8
27	17.6	11.3	14.0	21.0	13.0	17.1	22.3	15.8	19.1	18.1	11.2	14.9
28	17.4	11.8	14.0	22.0	13.8	17.9	21.8	16.3	18.9	17.4	12.1	15.2
29	13.5	11.5	12.5	21.8	14.7	18.2	22.5	15.9	19.0	16.3	12.5	14.7
30	11.7	10.7	11.1	19.8	14.8	16.9	21.6	16.1	18.9	16.1	11.3	13.0
31	---	---	---	18.7	14.3	16.2	22.9	15.4	19.1	---	---	---
MONTH	17.6	7.1	12.6	---	---	---	---	---	---	23.4	8.7	16.2

07105530 FOUNTAIN CREEK BELOW JANITELL ROAD, BELOW COLORADO SPRINGS, CO--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.7	7.3	8.0	---	---	---	7.7	6.7	7.2	7.3	5.7	6.5
2	8.5	7.3	7.9	---	---	---	7.5	6.5	7.0	7.3	5.5	6.4
3	8.0	7.2	7.6	---	---	---	7.5	6.6	7.0	7.6	5.2	6.4
4	9.4	7.3	7.8	---	---	---	7.5	6.3	6.9	7.6	4.9	6.4
5	8.2	6.9	7.6	---	6.6	---	7.5	6.4	7.0	7.4	4.9	6.2
6	8.0	6.5	7.3	7.6	6.3	6.9	---	---	---	7.2	5.6	6.2
7	8.3	7.1	7.6	7.3	6.7	7.0	---	---	---	7.8	6.5	7.2
8	8.1	7.5	7.8	7.9	6.8	7.3	---	---	---	7.3	6.0	6.7
9	8.4	7.3	7.9	7.8	6.8	7.3	---	---	---	8.1	6.2	7.1
10	8.4	7.8	8.1	7.7	6.7	7.2	---	5.8	---	8.1	7.4	7.8
11	8.4	7.1	7.8	7.7	6.5	7.1	6.5	5.5	6.0	8.1	7.0	7.5
12	8.3	6.8	7.6	7.6	6.5	7.0	6.5	5.7	6.2	8.2	7.2	7.6
13	8.0	6.8	7.4	7.6	6.6	7.1	6.6	5.9	6.3	8.3	7.0	7.6
14	7.9	6.8	7.3	7.6	6.8	7.3	6.8	6.2	6.5	7.9	7.1	7.4
15	7.4	6.0	6.9	7.8	6.8	7.3	7.3	6.0	6.6	8.0	6.7	7.3
16	---	6.2	---	7.7	6.7	7.2	6.9	5.8	6.4	7.8	6.7	7.1
17	8.4	6.5	6.9	7.5	6.9	7.3	6.7	5.8	6.3	7.6	6.5	6.9
18	8.3	7.3	7.8	7.6	7.0	7.3	7.0	6.2	6.5	7.4	6.5	7.0
19	8.3	7.1	7.8	7.7	7.0	7.3	7.6	6.7	7.1	7.8	7.1	7.4
20	8.6	7.4	7.9	7.9	6.8	7.3	7.6	6.6	7.1	7.9	7.3	7.6
21	8.7	7.6	8.1	8.0	7.2	7.5	7.3	6.4	6.9	9.3	7.9	8.5
22	8.7	7.5	8.1	7.9	6.8	7.3	7.4	6.4	6.9	9.0	7.5	8.1
23	8.8	7.8	8.2	7.9	7.2	7.5	7.5	6.3	6.9	8.7	7.2	7.9
24	8.8	7.8	8.3	8.2	7.1	7.6	7.4	6.4	6.9	8.6	7.7	8.0
25	8.7	7.4	8.1	8.2	6.7	7.4	7.3	6.5	6.9	8.7	7.1	7.9
26	8.4	7.2	7.8	7.8	6.5	7.1	7.4	6.2	6.8	8.6	7.2	7.9
27	8.2	7.0	7.6	7.8	6.5	7.1	7.4	6.2	6.8	8.3	6.9	7.6
28	8.5	7.3	7.8	7.5	6.2	6.9	7.2	6.0	6.6	7.9	6.8	7.4
29	8.7	8.2	8.5	7.6	6.4	6.9	7.2	6.1	6.6	7.6	6.8	7.2
30	---	8.6	---	7.4	6.7	7.0	7.3	5.7	6.6	8.2	7.1	7.6
31	---	---	---	7.5	6.9	7.2	7.8	6.1	6.9	---	---	---
MONTH	---	6.0	---	---	---	---	---	---	---	9.3	4.9	7.3

07105533 FOUNTAIN CREEK AT CIRCLE DRIVE BELOW COLORADO SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°47'49", long 104°47'06", in SE¹/4SW¹/4 sec.28, T.14 S., R.66 W., El Paso County, Hydrologic Unit 11020003, approximately 100 ft downstream from Circle Drive below Colorado Springs.

PERIOD OF RECORD.--October 1989 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCHI, FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 13...	1410	62	897	8.0	17.5	6.8	12	90	K340	66	21
DEC 01...	1450	86	777	8.0	9.0	8.6	15	56	710	56	16
29...	1320	107	840	7.5	11.0	7.9	19	37	260	52	16
JAN 19...	1430	94	868	7.5	10.0	8.1	12	55	53	56	17
FEB 23...	1330	104	842	7.4	14.0	7.8	19	K270	>400	52	15
MAR 23...	1330	90	825	8.0	13.5	8.4	9.4	K3	80	50	15
APR 20...	1345	130	695	8.0	11.0	8.1	14	>400	>670	48	14
MAY 25...	1345	E1000	388	7.9	8.5	8.8	6.4	K1400	780	31	8.6
JUN 22...	1400	365	493	8.0	17.0	7.4	6.3	>600	220	40	12
JUL 27...	1415	149	651	8.0	21.0	6.7	8.9	480	350	51	15
AUG 18...	0845	109	792	7.9	17.5	6.7	9.9	1200	1600	61	18
SEP 28...	1315	103	796	7.9	17.5	7.5	15	>1200	500	58	18

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDE (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
OCT 13...	125	220	40	1.8	27	0.36	3.5	6.3	8.0	1.6
DEC 01...	106	170	35	1.9	210	0.19	3.7	7.0	8.9	1.6
29...	95	180	46	2.1	55	0.10	3.0	8.3	10	1.5
JAN 19...	99	180	44	1.6	45	0.12	2.9	5.0	12	1.6
FEB 23...	90	170	41	1.6	38	0.12	2.1	10	12	2.1
MAR 23...	79	170	44	1.6	31	0.14	1.9	11	12	1.2
APR 20...	90	--	--	--	126	0.19	1.8	5.4	6.4	0.83
MAY 25...	62	79	14	2.1	244	0.08	1.3	1.1	1.4	0.15
JUN 22...	73	110	19	2.2	83	0.05	1.4	1.5	3.0	0.35
JUL 27...	97	150	27	2.1	37	0.16	2.4	3.1	4.0	0.23
AUG 18...	117	180	32	1.8	152	0.33	3.1	4.0	5.4	0.66
SEP 28...	112	180	36	2.0	21	0.20	2.9	5.0	5.6	0.36

E-Estimated

K-Based on non-ideal colony counts.

07105533 FOUNTAIN CREEK AT CIRCLE DRIVE BELOW COLORADO SPRINGS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
OCT 13...	<1	<1	2	1	<1	7	3	680
DEC 01...	<1	<1	4	<1	<1	8	2	4500
29...	<1	<1	2	<1	<1	10	4	850
JAN 19...	<1	<1	2	<1	<1	8	4	790
FEB 23...	<1	<1	2	1	<1	7	4	810
MAR 23...	<1	<1	1	<1	<1	6	4	680
APR 20...	<1	<0.3	2	<1	<1	6	2	2600
MAY 25...	<1	<1	2	<1	<1	6	1	5200
JUN 22...	<1	<1	1	<1	<1	4	1	1900
JUL 27...	<1	<1	<1	<1	<1	3	1	840
AUG 18...	<1	<1	2	<1	<1	9	1	3100
SEP 28...	<1	<1	<1	<1	<1	3	1	590

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 13...	51	2	<1	90	72	4	2	30	13
DEC 01...	31	7	<1	160	49	5	2	40	8
29...	76	3	<1	100	68	3	3	30	21
JAN 19...	69	3	<1	90	66	3	2	30	17
FEB 23...	98	3	<1	90	66	4	4	30	33
MAR 23...	57	2	<1	80	54	3	3	20	12
APR 20...	29	5	1	120	41	4	3	40	11
MAY 25...	73	10	<1	200	19	4	<1	40	6
JUN 22...	36	3	<1	100	27	2	1	20	<3
JUL 27...	15	1	<1	70	39	2	1	10	7
AUG 18...	38	7	<1	160	69	4	2	40	6
SEP 28...	30	1	<1	30	60	2	2	20	20

07105800 FOUNTAIN CREEK AT SECURITY, CO

LOCATION.--Lat 38°43'46", long 104°44'00", in NE¹/4SW¹/4 sec.24, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on left bank on upstream side of Carson Road bridge, 0.9 mi southwest of South Security School, 3.5 mi northeast of Fountain, and 5.5 mi upstream from Jimmy Camp Creek.

DRAINAGE AREA.--495 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR CO-85-1: 1984 (M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,640 ft above sea level, from topographic map. Prior to Oct. 26, 1966, at site 1,040 ft upstream at datum 6.00 ft higher. Oct. 26, 1966, to July 18, 1972, at site 980 ft upstream at datum 6.00 ft higher, July 19, 1972, to Feb. 20 1980, at site 980 ft downstream at datum 6.00 ft lower. Feb. 21, 1980 to Feb. 6, 1995 at present site at datum 3.00 ft lower. February 7, 1995 to present at datum 4.00 ft lower.

REMARKS.--Estimated daily discharges: May 17 to June 10. Records good except for discharges above 1500 ft³/s, and estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation of about 5,100 acres and municipal use, return flow from irrigated areas and flows from sewage treatment plants.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	473	115	115	110	113	110	114	264	1200	914	163	104
2	469	115	114	114	110	116	114	253	1250	924	153	105
3	255	117	116	113	105	147	115	264	1200	689	142	117
4	798	128	116	103	102	135	109	243	1200	641	163	104
5	163	122	105	115	103	126	111	668	1100	591	141	104
6	120	120	95	128	104	158	108	745	1000	478	141	115
7	111	116	103	117	108	122	108	585	1100	397	129	180
8	121	97	115	123	109	118	110	531	1100	352	126	170
9	101	100	115	121	110	119	169	463	1050	325	122	412
10	103	121	109	122	108	126	150	363	1000	331	128	333
11	95	122	116	120	105	128	131	245	799	319	136	218
12	87	118	115	114	99	127	133	280	723	303	144	146
13	84	118	123	115	106	129	130	278	654	297	131	133
14	84	122	117	113	184	128	118	253	636	350	132	155
15	313	108	117	114	120	122	140	253	643	360	130	174
16	119	87	122	115	122	152	132	303	638	352	109	165
17	248	93	120	104	116	139	209	3500	651	389	100	161
18	118	86	117	105	118	126	199	1420	704	383	117	171
19	102	87	118	111	112	129	266	1150	547	383	860	192
20	96	118	121	113	117	123	173	1100	434	387	367	164
21	95	95	119	104	117	117	316	991	403	318	200	173
22	93	82	119	106	108	117	220	980	387	272	260	166
23	89	100	119	108	114	115	178	1000	601	302	275	160
24	97	120	119	109	119	116	199	1100	463	339	196	158
25	108	123	112	119	115	116	171	1100	531	284	182	162
26	98	124	113	125	115	117	311	1090	421	199	167	154
27	98	118	116	114	116	112	181	990	404	201	122	148
28	116	96	115	109	115	126	179	854	743	192	103	140
29	112	85	116	110	---	122	256	1700	876	184	112	143
30	116	107	122	108	---	117	271	1800	593	179	105	145
31	117	---	111	112	---	118	---	1300	---	168	120	---
TOTAL	5199	3260	3570	3514	3190	3873	5121	26066	23051	11803	5476	4972
MEAN	168	109	115	113	114	125	171	841	768	381	177	166
MAX	798	128	123	128	184	158	316	3500	1250	924	860	412
MIN	84	82	95	103	99	110	108	243	387	168	100	104
AC-FT	10310	6470	7080	6970	6330	7680	10160	51700	45720	23410	10860	9860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1995, BY WATER YEAR (WY)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995			
MEAN	69.6	60.9	52.7	58.7	65.4	76.6	95.6	186	166	106	110	73.3																						
MAX	317	188	133	115	115	162	250	841	768	381	234	170																						
(WY)	1985	1985	1986	1985	1992	1992	1985	1995	1995	1995	1983	1982																						
MIN	12.6	15.1	17.8	11.9	14.1	21.3	23.7	24.7	17.8	30.1	23.5	13.1																						
(WY)	1965	1965	1976	1976	1972	1965	1978	1966	1968	1972	1974	1968																						

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1965 - 1995

ANNUAL TOTAL	51632		99095	
ANNUAL MEAN	141		271	
HIGHEST ANNUAL MEAN				93.6
LOWEST ANNUAL MEAN				271
HIGHEST DAILY MEAN	1180	May 9	3500	May 17
LOWEST DAILY MEAN	48	Jul 7	82	Nov 22
ANNUAL SEVEN-DAY MINIMUM	56	Jul 3	93	Nov 16
INSTANTANEOUS PEAK FLOW			7480	May 17
INSTANTANEOUS PEAK STAGE			7.72	May 17
ANNUAL RUNOFF (AC-FT)	102400		196600	67770
10 PERCENT EXCEEDS	258		676	163
50 PERCENT EXCEEDS	108		126	66
90 PERCENT EXCEEDS	70		104	22

a-From rating curve extended above 2900 ft³/s, on basis of slope-area measurement of peak flow.
b-From floodmarks, site and datum then in use.

07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
													FEBRUARY			MARCH			APRIL			MAY
1	879	820	845	912	840	867	898	796	864	---	---	---	
2	866	802	839	---	---	---	894	808	852	---	---	---	
3	886	811	844	---	---	---	878	789	849	---	---	---	
4	926	745	854	982	880	918	903	824	871	543	468	504	
5	875	795	832	908	847	878	927	855	889	581	440	458	
6	843	757	792	930	799	865	923	853	886	---	---	---	
7	838	627	800	888	836	861	936	830	889	---	---	---	
8	973	663	834	914	770	853	933	829	888	---	---	---	
9	1020	831	903	932	775	849	1080	602	884	---	---	---	
10	897	822	859	933	795	860	965	603	768	533	431	493	
11	923	744	852	948	802	856	880	817	856	554	473	514	
12	967	806	903	915	800	846	874	804	835	554	469	507	
13	1020	862	927	908	781	832	855	803	820	529	435	481	
14	1030	889	981	863	775	830	849	748	820	509	420	466	
15	1060	873	938	991	794	843	807	686	744	534	313	484	
16	940	868	902	874	791	827	824	717	766	533	333	493	
17	935	859	896	914	747	832	792	582	700	---	---	---	
18	995	862	904	886	799	844	---	---	---	---	---	---	
19	945	877	899	852	761	784	---	---	---	---	---	---	
20	936	878	908	850	781	825	770	571	676	---	---	---	
21	941	871	909	862	814	837	606	423	543	---	---	---	
22	996	861	914	874	808	838	709	380	571	---	---	---	
23	950	901	922	977	804	853	645	487	560	---	---	---	
24	993	860	925	861	706	831	609	455	555	---	---	---	
25	975	849	890	863	793	824	594	521	554	---	---	---	
26	892	828	865	840	800	817	---	---	---	---	---	---	
27	883	825	856	880	816	838	---	---	---	---	---	---	
28	916	742	862	1030	799	880	---	---	---	---	---	---	
29	---	---	---	949	784	872	---	---	---	---	---	---	
30	---	---	---	948	845	907	---	---	---	---	---	---	
31	---	---	---	935	826	888	---	---	---	---	---	---	
MONTH	1060	627	881	---	---	---	---	---	---	---	---	---	
		JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	494	261	366	705	627	663	819	742	794	
2	---	---	---	357	301	323	719	639	685	854	767	816	
3	---	---	---	390	291	338	765	685	707	828	738	771	
4	---	---	---	456	289	395	718	543	665	861	771	822	
5	---	---	---	538	462	507	726	542	668	877	773	849	
6	---	---	---	543	462	507	778	598	689	874	770	834	
7	---	---	---	589	478	525	855	693	739	866	549	703	
8	---	---	---	586	473	527	737	561	677	790	704	750	
9	---	---	---	582	487	535	703	624	680	787	763	774	
10	---	---	---	594	496	548	724	623	692	---	---	---	
11	240	107	162	621	510	571	752	691	719	---	---	---	
12	138	101	116	654	552	610	741	570	663	799	727	776	
13	153	106	129	697	553	611	797	575	667	770	730	746	
14	541	490	514	681	335	548	809	663	767	789	742	759	
15	569	425	489	565	371	472	824	715	730	788	735	759	
16	495	412	460	589	443	509	832	726	778	809	744	786	
17	479	388	432	550	423	483	795	710	747	864	763	787	
18	448	327	386	490	244	306	---	---	---	817	760	786	
19	---	---	---	618	245	345	---	---	---	760	627	689	
20	---	---	---	595	332	438	---	---	---	769	722	750	
21	---	---	---	578	453	520	---	---	---	792	677	727	
22	541	438	505	612	516	563	---	---	---	765	680	735	
23	576	377	481	582	339	511	---	---	---	771	710	739	
24	451	210	328	609	459	547	---	---	---	766	689	732	
25	316	212	254	695	561	597	---	---	---	771	692	733	
26	258	183	227	697	445	623	---	---	---	761	684	726	
27	242	166	202	743	610	655	---	---	---	822	729	754	
28	279	189	221	894	649	747	800	737	764	790	721	756	
29	428	244	287	789	680	741	760	684	731	755	700	722	
30	424	381	388	787	648	736	778	672	716	737	697	715	
31	---	---	---	775	630	735	813	709	738	---	---	---	
MONTH	---	---	---	894	244	530	---	---	---	---	---	---	

07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.2	6.0	6.1	---	---	---	8.1	7.5	7.9	---	---	---
2	6.2	6.1	6.1	---	---	---	7.9	7.8	7.8	---	---	---
3	6.3	6.1	6.1	---	---	---	7.9	7.8	7.8	---	---	---
4	6.3	6.2	6.2	---	---	---	7.8	7.7	7.8	---	---	---
5	6.3	6.2	6.2	---	---	---	7.8	7.8	7.8	7.9	7.7	7.8
6	8.3	6.1	7.0	---	---	---	7.9	7.8	7.8	7.9	7.7	7.9
7	8.3	7.4	8.1	---	---	---	7.9	7.8	7.9	7.9	7.5	7.8
8	8.2	7.1	7.7	---	---	---	7.9	7.9	7.9	7.8	7.5	7.7
9	8.1	6.9	7.6	---	---	---	8.0	7.9	7.9	7.8	7.5	7.7
10	8.2	6.7	7.7	---	---	---	8.0	7.9	7.9	7.8	7.6	7.7
11	8.2	6.9	7.8	---	---	---	7.9	7.4	7.9	7.7	7.4	7.6
12	8.2	6.9	7.8	---	---	---	7.9	7.8	7.9	7.7	7.5	7.6
13	8.2	6.7	7.5	---	---	---	7.9	7.8	7.9	7.7	7.5	7.7
14	7.7	6.2	6.9	---	---	---	7.9	7.8	7.9	7.8	7.5	7.7
15	7.0	4.2	6.4	---	---	---	8.0	7.8	7.9	7.7	7.5	7.7
16	6.3	6.0	6.1	7.8	7.7	7.8	7.9	7.8	7.9	7.7	7.6	7.7
17	6.1	6.0	6.1	7.9	7.8	7.8	7.9	7.9	7.9	7.8	7.6	7.7
18	7.6	6.0	6.6	7.9	7.8	7.9	7.9	7.8	7.9	7.8	7.5	7.7
19	7.5	6.3	7.0	7.9	7.8	7.9	7.9	7.8	7.9	7.8	7.5	7.7
20	7.6	6.3	6.9	7.9	7.3	7.8	7.8	7.6	7.7	7.7	7.6	7.7
21	7.2	6.2	6.7	7.9	7.3	7.6	7.7	7.6	7.6	7.8	7.5	7.7
22	6.9	5.9	6.4	7.9	7.4	7.8	---	---	---	7.7	7.5	7.6
23	6.5	5.6	6.0	7.9	7.4	7.8	---	---	---	7.8	7.5	7.7
24	---	---	---	7.8	7.7	7.8	---	---	---	7.8	7.6	7.7
25	---	---	---	7.9	7.7	7.8	---	---	---	7.7	7.5	7.7
26	---	---	---	7.9	7.7	7.8	---	---	---	7.7	7.6	7.7
27	8.0	---	---	7.9	7.8	7.8	---	---	---	7.7	7.6	7.7
28	8.0	7.5	7.7	7.9	7.8	7.9	---	---	---	7.7	7.6	7.7
29	8.0	7.7	7.9	8.0	7.8	7.9	---	---	---	7.7	7.6	7.7
30	7.9	7.5	7.6	7.9	7.8	7.9	---	---	---	7.8	7.5	7.7
31	---	---	---	---	---	---	---	---	---	7.7	7.5	7.7
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	7.7	7.6	7.7	7.9	7.7	7.8	8.0	7.9	7.9	8.2	7.5	7.8
2	7.7	7.6	7.7	8.0	7.7	7.9	8.0	7.8	7.9	8.3	7.6	7.9
3	7.7	7.6	7.7	7.9	7.4	7.8	8.0	7.8	7.9	8.3	7.6	7.8
4	7.7	7.5	7.6	8.1	7.5	7.9	8.0	7.8	7.9	8.1	7.7	7.8
5	7.7	7.4	7.6	8.1	7.7	8.0	8.0	7.8	7.9	8.5	8.1	8.2
6	7.7	7.5	7.6	8.2	7.8	8.1	8.0	7.6	7.9	8.4	7.6	8.1
7	7.7	7.6	7.7	8.3	7.8	8.1	8.0	7.9	7.9	8.2	7.7	8.0
8	7.7	7.6	7.7	8.4	7.9	8.2	8.0	7.9	7.9	8.2	7.6	7.9
9	7.7	7.6	7.6	8.4	7.9	8.3	8.1	7.6	8.0	8.1	7.6	7.9
10	7.8	7.6	7.7	8.3	8.0	8.2	8.2	8.0	8.0	8.1	7.5	7.9
11	7.8	7.6	7.8	8.2	8.1	8.1	8.1	7.9	8.0	7.9	7.7	7.8
12	7.8	7.6	7.7	8.2	7.8	8.1	8.1	7.9	8.0	7.9	7.8	7.8
13	7.8	7.6	7.7	8.2	7.7	8.1	8.0	7.9	7.9	7.9	7.7	7.9
14	7.8	7.3	7.7	8.1	7.6	8.0	8.1	7.9	8.0	7.9	7.8	7.9
15	7.8	7.7	7.8	8.1	7.8	8.0	8.0	7.8	8.0	7.8	7.7	7.8
16	7.8	7.7	7.8	8.0	7.4	7.9	8.0	7.8	7.9	7.8	7.7	7.8
17	7.8	7.6	7.7	7.9	7.7	7.8	8.0	7.9	7.9	7.9	7.8	7.8
18	7.7	7.6	7.7	8.0	7.7	7.9	8.0	7.6	7.9	7.8	7.8	7.8
19	7.7	7.6	7.7	8.0	7.3	7.8	8.0	7.9	7.9	7.8	7.7	7.7
20	7.7	7.5	7.6	7.9	7.6	7.8	8.1	7.8	7.9	7.7	7.7	7.7
21	7.6	7.4	7.5	7.9	7.8	7.8	8.0	7.8	7.9	7.7	7.7	7.7
22	7.6	7.2	7.4	7.9	7.6	7.8	8.1	7.9	8.0	7.7	7.7	7.7
23	7.6	7.3	7.5	7.9	7.6	7.8	8.1	7.9	8.0	7.7	7.5	7.7
24	7.7	7.5	7.6	7.9	7.7	7.8	8.1	7.2	7.9	7.7	7.6	7.6
25	7.7	7.5	7.6	7.9	7.5	7.8	8.2	7.9	8.1	7.8	7.6	7.7
26	7.7	7.5	7.6	7.9	7.7	7.9	8.2	8.0	8.1	7.8	7.7	7.7
27	7.7	7.5	7.6	7.9	7.8	7.8	8.2	7.9	8.1	7.8	7.4	7.7
28	7.7	7.6	7.7	7.9	7.8	7.9	8.3	8.2	8.2	7.8	7.3	7.6
29	---	---	---	8.0	7.9	8.0	8.2	7.5	8.1	7.5	7.2	7.3
30	---	---	---	8.1	7.9	8.0	8.3	7.5	8.1	7.6	7.3	7.5
31	---	---	---	8.0	7.9	8.0	---	---	---	7.7	7.4	7.6
MONTH	7.8	7.2	7.7	8.4	7.3	7.9	8.3	7.2	8.0	8.5	7.2	7.8

07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.7	7.6	7.6	---	---	---	7.8	7.4	7.6	7.9	7.6	7.7
2	7.7	7.0	7.5	---	---	---	7.7	7.4	7.6	7.9	7.6	7.7
3	7.6	7.2	7.3	---	---	---	7.7	7.2	7.5	7.9	7.6	7.7
4	7.6	7.2	7.3	---	---	---	7.7	7.3	7.4	7.8	7.6	7.7
5	7.6	7.2	7.5	---	---	---	7.7	7.2	7.5	7.7	7.3	7.6
6	7.6	7.3	7.5	---	---	---	7.7	7.4	7.5	7.6	7.1	7.4
7	7.6	7.3	7.5	---	---	---	7.7	7.4	7.5	7.4	7.4	7.4
8	7.5	7.1	7.3	---	---	---	7.8	7.4	7.6	7.6	7.3	7.5
9	7.5	7.4	7.5	---	---	---	7.7	7.5	7.6	7.6	7.3	7.5
10	7.5	7.3	7.4	7.4	7.1	7.2	7.8	7.5	7.6	7.5	7.2	7.3
11	7.4	7.2	7.3	7.5	7.4	7.4	7.6	7.4	7.5	7.6	7.4	7.5
12	7.4	7.2	7.3	7.7	7.5	7.6	7.7	7.4	7.5	7.5	7.3	7.4
13	7.3	7.0	7.2	7.9	7.4	7.8	7.8	7.3	7.6	7.5	7.2	7.4
14	7.3	7.0	7.2	8.0	7.8	7.9	7.7	7.4	7.5	7.4	7.2	7.3
15	7.3	7.1	7.2	7.9	7.7	7.8	7.6	7.4	7.5	---	---	---
16	7.2	7.1	7.2	7.9	7.7	7.8	7.7	7.5	7.5	---	---	---
17	---	---	---	8.1	7.7	7.8	7.7	7.4	7.5	---	---	---
18	---	---	---	7.8	7.7	7.7	7.7	7.4	7.5	---	---	---
19	---	---	---	7.8	7.7	7.7	7.5	7.1	7.3	7.4	7.0	7.2
20	---	---	---	7.7	7.4	7.7	---	---	---	7.4	7.1	7.3
21	---	---	---	7.7	7.2	7.5	---	---	---	7.4	7.3	7.4
22	7.6	7.5	7.5	7.4	7.3	7.3	---	---	---	7.4	7.3	7.4
23	7.8	7.4	7.5	7.5	7.2	7.3	---	---	---	7.4	7.1	7.4
24	7.6	7.5	7.5	7.5	7.2	7.3	---	---	---	7.5	7.4	7.4
25	7.6	7.4	7.5	7.6	7.3	7.4	---	---	---	7.5	7.4	7.4
26	7.6	7.5	7.5	7.6	7.3	7.4	---	---	---	7.6	7.2	7.5
27	7.5	7.3	7.5	7.5	7.3	7.3	---	---	---	7.6	7.4	7.6
28	7.7	7.4	7.5	7.4	7.3	7.3	7.8	7.6	7.7	7.6	7.5	7.6
29	---	---	---	7.6	7.3	7.4	7.8	7.6	7.7	7.6	7.4	7.6
30	---	---	---	7.6	7.3	7.4	7.8	7.4	7.6	7.6	7.2	7.5
31	---	---	---	7.6	7.4	7.5	7.9	7.6	7.7	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.3	3.6	15.0	12.3	8.0	10.0	9.9	2.8	5.8	7.2	.6	3.9
2	15.8	5.5	10.8	12.7	8.9	10.4	10.4	3.4	6.6	7.4	3.0	4.9
3	18.4	11.2	14.1	9.7	7.9	8.7	9.7	4.4	6.8	6.7	2.2	4.0
4	15.7	11.5	13.9	10.9	7.1	8.6	10.9	5.4	7.9	6.1	2.4	3.8
5	18.5	14.2	15.7	13.7	7.1	10.1	7.8	5.9	6.8	8.8	2.9	5.3
6	19.3	11.4	14.3	14.1	7.7	11.0	7.0	4.5	6.0	7.8	3.2	5.1
7	15.4	11.2	13.0	15.4	8.9	11.8	8.1	3.4	5.4	9.3	2.3	5.4
8	16.9	10.1	12.9	11.5	8.0	9.6	5.9	2.9	4.4	9.2	3.9	6.1
9	18.1	9.2	13.1	12.1	7.4	8.9	7.7	1.0	4.1	10.7	4.2	6.8
10	18.9	9.7	13.6	12.9	6.3	9.4	7.0	1.2	3.9	11.2	4.9	7.4
11	19.3	10.5	14.0	13.8	7.0	10.3	8.1	2.5	4.5	10.9	4.9	7.1
12	19.0	10.5	13.8	13.2	8.5	10.4	7.1	2.6	4.7	9.7	5.3	6.6
13	18.0	10.1	13.2	12.3	6.8	9.1	9.2	3.6	5.7	10.4	4.0	6.5
14	15.3	9.6	12.1	8.8	4.7	7.6	9.3	3.4	5.5	10.2	3.8	6.6
15	13.7	8.8	11.2	11.4	4.5	7.4	9.0	2.5	5.0	9.4	4.9	6.8
16	15.5	10.1	12.6	10.3	4.5	7.0	9.4	2.5	5.4	8.9	4.6	6.4
17	12.4	8.0	10.2	8.4	4.2	6.1	9.5	3.8	6.0	8.0	2.7	5.1
18	15.1	7.6	10.9	8.6	2.7	5.1	10.5	3.6	6.5	8.9	2.4	5.0
19	16.4	9.2	12.1	9.1	2.1	5.4	8.2	4.0	5.5	10.0	2.6	5.5
20	16.7	8.2	11.7	8.6	1.6	4.6	10.1	3.1	5.9	8.7	3.5	5.5
21	16.4	8.3	11.6	6.9	4.7	5.4	10.1	4.0	6.3	8.4	2.9	5.3
22	15.4	8.5	11.4	5.7	4.5	5.2	10.4	4.2	6.6	9.2	2.3	5.1
23	16.3	8.3	11.8	8.8	1.6	5.3	9.0	4.5	6.5	9.6	1.8	4.9
24	13.9	8.5	10.6	10.5	3.7	6.7	9.7	5.2	7.1	10.5	2.9	5.4
25	15.4	7.7	10.8	10.6	4.5	7.2	10.3	4.7	7.1	9.9	2.3	5.6
26	15.5	7.7	11.0	9.5	5.0	7.0	9.4	5.0	6.9	8.8	4.5	6.4
27	15.6	8.3	11.6	8.3	2.5	5.3	10.0	3.9	6.6	9.0	5.8	7.0
28	16.8	10.1	12.8	6.8	1.4	4.0	9.4	3.9	6.2	8.7	4.8	6.5
29	13.4	9.0	10.6	6.9	.2	3.0	8.8	3.8	6.2	9.3	4.0	6.1
30	11.3	8.4	9.9	9.7	2.6	5.3	6.9	5.2	6.1	11.4	2.6	6.2
31	13.6	6.7	9.6	---	---	---	5.7	3.4	4.8	11.4	4.6	7.4
MONTH	21.3	3.6	12.3	15.4	.2	7.5	10.9	1.0	5.9	11.4	.6	5.8

07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.8	5.2	8.0	5.9	2.0	3.6	16.2	5.8	10.3	13.3	6.0	9.3
2	11.5	5.6	7.9	10.0	.9	4.2	15.7	6.6	10.6	13.2	7.3	9.9
3	11.5	4.5	7.3	12.4	1.8	5.7	16.8	7.5	11.7	12.6	7.1	9.9
4	12.5	4.7	7.9	11.8	3.9	7.5	18.1	7.4	12.1	14.9	6.0	10.3
5	11.0	4.4	7.8	12.4	5.4	8.4	17.1	8.0	12.5	11.3	5.0	9.0
6	12.5	4.8	8.2	8.5	4.5	6.3	17.1	8.7	12.6	13.6	5.5	9.3
7	10.4	6.2	7.6	12.0	4.0	6.8	19.3	9.4	13.4	11.1	7.2	9.2
8	9.7	5.0	7.1	9.4	3.2	6.5	20.1	9.5	13.9	13.0	6.9	9.7
9	11.6	5.1	7.7	15.6	4.4	9.1	12.1	5.3	8.3	12.2	6.5	9.5
10	10.2	3.6	6.2	16.7	6.0	10.7	11.1	3.5	6.7	15.5	7.5	11.2
11	5.0	1.8	3.1	15.1	7.3	11.1	14.4	3.6	8.2	16.0	8.1	12.0
12	7.8	1.3	3.8	12.5	7.4	9.8	16.7	4.8	10.1	15.0	8.6	11.9
13	8.7	1.7	4.2	15.7	5.9	10.2	15.2	7.5	11.8	16.1	6.8	11.2
14	10.6	1.7	4.2	16.5	6.4	10.9	15.5	9.9	12.5	16.3	7.9	12.0
15	8.2	.8	3.9	15.7	6.7	10.7	12.1	6.4	9.7	18.5	9.0	13.5
16	9.3	2.2	5.2	16.6	7.5	11.1	16.9	7.1	11.4	17.4	10.0	13.2
17	10.1	2.7	5.7	15.4	8.1	11.4	10.5	5.2	7.6	12.4	6.5	8.3
18	11.2	4.3	7.0	15.9	7.4	11.2	11.9	3.1	7.2	13.9	5.8	9.6
19	13.1	4.1	8.3	15.1	7.8	10.9	6.3	2.7	4.5	12.9	7.7	10.6
20	13.8	5.8	9.3	15.4	6.5	10.3	12.0	3.8	7.5	12.1	8.6	10.4
21	14.1	5.7	9.4	17.3	7.7	11.7	7.1	3.1	5.0	13.9	8.7	11.3
22	13.9	6.9	9.8	16.6	7.9	11.4	7.8	4.9	6.1	13.0	8.9	11.1
23	14.6	5.8	9.5	15.2	6.2	10.0	14.4	3.8	8.6	10.5	8.1	8.8
24	15.1	5.9	9.8	15.7	7.7	10.8	15.9	5.1	10.2	8.7	6.9	8.0
25	15.4	5.8	10.1	13.4	7.0	9.4	16.4	6.4	11.1	9.1	7.2	8.2
26	14.5	7.2	10.3	9.8	4.8	7.4	11.0	4.4	7.4	13.4	7.8	10.4
27	14.2	6.4	9.8	13.8	5.3	9.0	15.0	5.7	9.7	11.9	8.0	10.1
28	8.3	4.0	5.7	11.8	5.0	7.6	14.8	7.2	11.1	11.8	7.3	9.6
29	---	---	---	10.7	5.2	7.3	11.2	8.4	9.6	10.1	7.5	9.4
30	---	---	---	11.8	4.5	7.5	13.8	7.5	10.1	10.6	8.1	9.5
31	---	---	---	14.2	4.3	8.9	---	---	---	13.5	8.6	10.9
MONTH	15.4	.8	7.3	17.3	.9	8.9	20.1	2.7	9.7	18.5	5.0	10.2
WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.7	8.6	11.8	16.6	11.7	13.6	23.2	14.2	17.9	26.8	16.8	21.0
2	15.1	9.8	12.5	17.1	11.2	14.0	24.3	14.8	19.2	24.8	17.2	20.2
3	13.8	10.1	11.7	15.8	11.7	13.7	24.7	15.1	18.9	26.0	16.4	20.3
4	12.6	8.4	10.5	14.4	10.8	12.8	23.6	15.1	18.9	24.6	16.4	20.4
5	16.2	9.7	12.8	18.3	10.0	14.2	23.7	15.7	19.3	25.2	16.5	20.4
6	17.2	10.5	13.7	19.6	12.0	15.8	23.5	14.9	19.3	24.7	17.0	19.8
7	15.8	10.0	12.9	20.6	13.0	16.7	23.3	15.8	19.3	18.5	15.5	16.6
8	13.4	11.6	12.5	20.6	13.1	16.8	26.6	15.7	20.3	19.1	14.7	16.5
9	15.9	10.5	13.0	20.0	13.6	16.4	24.4	16.7	20.1	19.0	14.9	17.0
10	13.0	10.4	11.8	20.5	13.1	16.9	26.7	16.3	21.0	17.2	13.8	15.4
11	16.9	10.3	13.3	21.7	13.5	17.6	27.7	17.6	21.3	19.7	12.2	16.4
12	18.7	11.0	14.8	22.2	14.2	18.1	25.4	17.7	20.6	21.4	13.2	16.8
13	18.4	11.7	15.2	22.0	14.0	17.6	24.5	17.2	20.5	21.2	13.1	16.9
14	17.9	12.1	15.3	19.7	13.9	16.5	20.5	16.9	18.5	19.9	13.5	16.6
15	18.0	12.7	15.3	19.2	13.5	16.5	25.3	15.0	19.7	21.0	12.9	16.8
16	17.6	12.2	15.0	20.5	13.9	17.2	25.7	15.9	20.4	21.9	13.0	17.0
17	15.0	11.3	13.7	20.2	14.7	16.6	24.6	16.5	20.5	21.2	13.3	16.8
18	17.4	10.3	13.9	17.0	13.9	15.5	25.1	16.9	20.7	18.8	13.5	16.0
19	16.2	11.8	13.3	18.0	12.8	15.6	22.3	17.7	19.7	16.5	12.5	14.5
20	---	---	---	20.0	13.3	16.7	24.7	16.5	20.0	16.8	10.4	13.1
21	---	---	---	17.9	12.8	16.1	25.8	16.7	20.3	10.4	7.6	8.8
22	19.9	---	17.4	20.0	13.9	17.1	25.8	16.5	20.2	15.9	7.1	11.0
23	17.7	12.8	15.1	17.3	14.3	16.2	24.8	17.0	20.5	16.9	9.3	12.6
24	17.1	11.4	14.2	20.2	13.4	17.0	25.6	16.9	20.5	12.0	10.4	11.2
25	18.4	11.2	14.6	21.9	13.7	17.9	23.7	17.4	20.0	17.1	8.0	12.1
26	18.7	11.3	14.9	23.5	14.3	18.8	25.1	15.3	20.3	18.2	9.1	13.2
27	19.8	12.3	15.1	24.0	14.2	18.9	24.7	16.8	20.4	19.8	11.0	14.7
28	18.2	11.6	14.1	25.0	15.1	19.8	26.9	17.0	20.7	18.5	12.2	14.9
29	14.4	12.8	13.6	25.1	16.1	20.4	25.1	13.2	20.2	16.3	11.9	13.9
30	13.6	11.8	12.7	22.4	16.1	18.5	25.1	16.8	20.5	17.0	10.8	13.9
31	---	---	---	20.9	15.4	17.6	26.0	16.1	20.4	---	---	---
MONTH	---	---	---	25.1	10.0	16.7	27.7	13.2	20.0	26.8	7.1	15.8

07105800 FOUNTAIN CREEK AT SECURITY, CO--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	6.8	4.8	5.5	7.1	5.8	6.2
2	---	---	---	---	---	---	6.5	4.8	5.5	7.1	5.7	6.3
3	---	---	---	---	---	---	6.7	5.0	5.6	7.7	6.0	6.7
4	---	---	---	---	---	---	6.9	4.1	5.4	7.3	6.0	6.6
5	---	---	---	---	---	---	6.6	4.5	5.3	7.5	5.6	6.2
6	---	---	---	---	---	---	7.1	4.9	5.6	6.6	5.3	5.8
7	---	---	---	---	---	---	6.9	5.0	5.6	6.6	5.1	5.7
8	---	---	---	---	---	---	7.7	5.1	5.8	6.4	5.4	5.8
9	---	---	---	---	---	---	6.7	5.2	5.6	8.0	5.7	6.4
10	---	---	---	---	---	---	7.0	4.7	5.7	7.4	---	6.2
11	---	---	---	---	---	---	5.9	4.5	5.1	7.6	6.1	7.0
12	---	---	---	---	---	---	6.7	4.7	5.4	7.3	5.8	6.4
13	---	---	---	---	---	---	6.8	4.8	5.7	6.8	5.5	6.1
14	---	---	---	---	---	---	6.8	5.2	5.8	6.7	5.5	6.0
15	---	---	---	---	---	---	7.1	5.1	5.8	6.6	5.2	5.9
16	---	---	---	---	---	---	6.7	4.9	5.6	6.9	5.3	6.0
17	---	---	---	---	---	---	6.9	4.8	5.6	6.8	5.3	6.0
18	---	---	---	---	---	---	6.8	4.7	5.3	6.7	5.4	5.9
19	---	---	---	---	---	---	8.1	4.9	6.2	6.8	5.8	6.2
20	---	---	---	---	---	---	6.4	5.1	5.7	7.4	5.9	6.6
21	---	---	6.8	---	---	---	6.9	5.5	6.0	8.6	7.1	7.7
22	8.1	6.1	4.5	---	---	---	6.7	5.1	5.9	8.5	5.9	7.2
23	8.2	6.3	7.3	---	---	---	6.9	5.1	5.9	7.8	5.5	6.7
24	9.0	7.2	8.2	---	---	---	6.7	5.4	5.9	7.5	5.8	6.6
25	9.0	6.9	8.0	---	---	---	6.6	5.1	5.9	8.3	4.4	6.1
26	---	---	---	---	---	---	6.6	4.9	5.7	7.2	5.3	6.0
27	---	---	---	---	---	---	6.6	5.1	5.8	6.5	5.0	5.7
28	---	---	---	---	---	---	6.7	5.3	5.8	6.3	5.0	5.5
29	---	---	---	---	---	---	6.7	5.0	5.7	5.9	5.0	5.6
30	---	---	---	---	---	---	6.8	5.0	5.8	6.2	4.7	5.5
31	---	---	---	5.6	4.7	5.0	7.3	5.8	6.3	---	---	---
MONTH	---	---	---	---	---	---	8.1	4.1	5.7	8.6	---	6.2

07105900 JIMMY CAMP CREEK AT FOUNTAIN, CO

LOCATION.--Lat 38°41'04", long 104°41'17", in NW¹/4SE¹/4 sec.5, T.16 S., R.65 W., El Paso County, Hydrologic Unit 11020003, on right bank at downstream side of bridge on county road, 1,000 ft east of Fountain, and 1.5 mi upstream from mouth.

DRAINAGE AREA.--65.6 mi².

PERIOD OF RECORD.--January 1976 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,530 ft above sea level, from topographic map. January 1976 to Sept. 3, 1986 at datum 4.0 ft, higher. Aug. 14, 1991 to July 14, 1994, at site 110 ft downstream, at same datum.

REMARKS.--Estimated daily discharges: Feb. 12-19, Feb. 28 to Mar. 10, 16-21, Mar. 30 to Apr. 13, and June 29 to July 14. Records fair except for estimated daily discharges, and those above 80 ft³/s, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	3.1	2.8	2.0	1.4	1.0	1.1	2.8	4.5	15	2.9	1.7
2	2.1	3.2	2.9	2.0	1.5	1.1	1.1	2.8	164	9.0	2.8	1.7
3	2.6	3.4	3.4	1.9	1.5	1.1	1.1	2.8	457	5.0	2.7	1.7
4	13	6.2	4.0	1.9	3.0	1.0	1.0	2.8	6.8	3.0	3.1	1.8
5	7.6	3.8	4.4	1.8	3.8	1.0	1.0	3.0	28	2.5	3.4	1.8
6	5.1	2.6	4.4	1.9	2.2	1.0	1.0	4.9	5.2	2.0	3.4	1.7
7	4.2	2.4	4.2	1.8	2.0	1.1	1.0	8.0	3.4	2.0	3.0	1.8
8	3.8	2.2	3.8	1.9	1.8	1.1	1.0	3.5	3.1	2.0	3.8	1.8
9	3.5	2.2	4.3	2.0	1.8	1.1	1.1	3.6	3.0	2.1	3.9	1.9
10	3.1	2.2	4.0	2.0	1.6	1.1	1.2	3.3	2.8	2.1	4.0	2.0
11	3.0	2.0	3.6	2.0	1.5	1.2	1.3	3.5	2.7	2.2	3.6	1.8
12	3.0	2.0	3.5	2.1	1.4	1.2	1.4	3.6	2.5	2.3	2.5	1.7
13	2.6	2.0	3.0	2.3	1.2	1.0	1.5	3.5	2.4	2.4	2.5	1.7
14	2.2	2.0	2.8	2.3	1.0	1.0	2.1	3.6	2.3	2.5	2.6	1.7
15	2.3	2.3	2.6	2.3	1.1	.99	2.0	3.7	2.2	2.7	2.6	1.8
16	2.3	3.1	2.9	2.4	1.0	1.0	2.1	4.3	2.2	2.4	2.7	1.7
17	3.3	3.3	2.7	2.5	1.0	1.0	2.8	180	2.2	3.0	2.7	1.7
18	3.0	3.1	2.7	2.5	1.1	1.0	2.8	14	2.4	3.1	2.7	1.7
19	2.7	3.0	2.7	2.3	1.0	1.0	3.0	4.7	2.2	3.0	2.5	1.7
20	2.4	3.6	2.9	2.2	1.0	1.0	2.7	4.0	2.3	3.1	2.2	1.7
21	2.4	3.8	2.9	1.9	1.2	1.1	5.6	3.8	2.2	3.0	2.4	1.7
22	2.5	3.7	2.8	1.7	1.4	1.2	4.0	3.9	2.1	2.9	2.1	1.7
23	2.4	3.3	2.9	1.4	1.4	1.2	3.5	4.2	2.1	2.8	2.0	1.7
24	2.5	3.0	3.1	1.4	1.4	1.1	3.3	4.9	2.1	2.6	2.0	1.7
25	2.5	3.1	3.2	1.3	1.3	1.0	2.6	4.7	2.2	2.4	1.8	1.7
26	2.6	3.0	3.2	1.4	1.2	1.3	4.8	4.3	2.2	2.3	1.8	1.7
27	2.7	2.9	3.0	1.4	1.1	1.1	3.2	4.1	2.4	2.3	1.7	1.7
28	2.7	2.8	2.6	1.4	1.0	1.7	2.9	3.7	29	2.3	1.7	1.7
29	2.8	2.8	2.4	1.5	---	1.3	2.9	6.2	80	2.4	1.7	1.7
30	2.9	2.8	2.4	1.6	---	1.2	3.1	5.3	7.0	2.4	1.6	1.8
31	3.3	---	2.2	1.5	---	1.1	---	4.7	---	2.6	1.7	---
TOTAL	102.7	88.9	98.3	58.6	41.9	34.29	68.2	312.2	832.5	99.4	80.1	52.2
MEAN	3.31	2.96	3.17	1.89	1.50	1.11	2.27	10.1	27.7	3.21	2.58	1.74
MAX	13	6.2	4.4	2.5	3.8	1.7	5.6	180	457	15	4.0	2.0
MIN	1.6	2.0	2.2	1.3	1.0	.99	1.0	2.8	2.1	2.0	1.6	1.7
AC-FT	204	176	195	116	83	68	135	619	1650	197	159	104

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	2.13	2.36	1.78	1.71	1.63	1.78	1.69	2.47	3.85	3.19	4.48	1.80									
MAX	3.55	6.49	3.17	2.74	2.39	3.54	2.72	10.1	27.7	27.9	13.4	5.12									
(WY)	1985	1982	1995	1986	1977	1980	1993	1995	1985	1984	1994										
MIN	1.20	1.58	.87	1.01	.79	1.05	.56	.91	.98	.96	.84	.68									
(WY)	1979	1984	1988	1988	1990	1990	1990	1986	1989	1989	1993	1990									

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1976 - 1995

ANNUAL TOTAL	1162.68	1869.29	
ANNUAL MEAN	3.19	5.12	2.40
HIGHEST ANNUAL MEAN			5.12
LOWEST ANNUAL MEAN			1.20
HIGHEST DAILY MEAN	295	Jun 3	457
LOWEST DAILY MEAN	.94	May 20	.99
ANNUAL SEVEN-DAY MINIMUM	1.0	Mar 19	1.0
INSTANTANEOUS PEAK FLOW			4530
INSTANTANEOUS PEAK STAGE			9.44
ANNUAL RUNOFF (AC-FT)	2310	3710	1740
10 PERCENT EXCEEDS	3.4	4.1	2.9
50 PERCENT EXCEEDS	1.5	2.4	1.7
90 PERCENT EXCEEDS	1.1	1.1	.91

a-Also occurred Apr 13 and 15, 1990.

b-From rating curve extended above 100 ft³/s, on basis of slope-area measurement of peak flow.

c-From floodmark.

07105905 FOUNTAIN CREEK ABOVE LITTLE FOUNTAIN CREEK, BELOW FOUNTAIN, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°37'50", long 104°40'50", in SW¹/4NW¹/4 sec.28, T.16 S., R.65 W., El Paso County, Hydrologic Unit 11020003, approximately 1 mi upstream from mouth of Little Fountain Creek below Fountain.

PERIOD OF RECORD.--April 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 14...	1040	72	1080	8.0	11.5	7.5	14	>600	350	83	27
DEC 02...	0915	119	990	8.0	2.5	10.8	5.6	180	320	72	24
30...	0915	117	1000	7.7	4.5	8.2	28	<300	K670	72	22
JAN 20...	1000	104	970	7.9	3.0	8.6	25	240	270	74	23
FEB 24...	0915	108	1060	7.9	6.0	8.1	33	K260	380	72	23
MAR 24...	0915	104	1000	7.9	8.5	7.4	6.3	52	K56	69	22
APR 21...	1030	419	669	7.9	3.0	10.4	11	K1700	>1000	47	14
MAY 26...	1045	845	494	8.0	10.5	8.7	5.7	1000	830	39	12
JUN 23...	0900	622	609	7.9	15.0	7.5	8.5	>600	>1000	49	16
JUL 28...	0830	201	808	7.9	16.0	7.7	6.0	K1200	440	63	20
AUG 18...	1115	56	1050	8.1	23.5	6.1	1.0	200	K160	84	27
SEP 29...	0815	133	935	8.0	12.0	8.5	8.5	190	>250	75	23

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SULFIDE TOTAL (MG/L AS S)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
OCT 14...	173	290	48	1.7	--	55	0.23	5.3	1.5	2.4	0.92
DEC 02...	151	250	45	1.8	<0.5	82	0.07	5.9	2.5	3.5	1.1
30...	137	240	46	1.8	--	86	0.23	5.7	3.9	5.0	1.4
JAN 20...	140	240	47	1.5	--	65	0.06	5.2	3.9	4.6	1.4
FEB 24...	135	250	50	1.7	--	80	0.11	4.8	5.2	6.3	1.5
MAR 24...	125	240	52	1.6	--	63	0.16	5.6	4.9	6.0	1.3
APR 21...	99	160	34	0.8	--	768	0.04	2.7	0.60	1.2	0.26
MAY 26...	82	120	16	1.9	<0.5	472	0.05	1.6	0.32	1.0	0.17
JUN 23...	99	160	22	1.9	--	416	0.05	3.3	0.03	0.9	0.21
JUL 28...	123	210	35	1.8	--	148	0.16	5.6	0.09	1.0	0.35
AUG 18...	165	290	45	1.8	--	17	0.06	5.0	0.04	0.5	0.43
SEP 29...	137	230	41	1.7	--	105	0.29	**	0.63	1.0	0.44

K - Based on non-ideal colony count.

07105905 FOUNTAIN CREEK ABOVE LITTLE FOUNTAIN CREEK, BELOW FOUNTAIN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ARSENIC TOTAL (UG/L AS AS)		BORON, TOTAL RECOV- ERABLE (UG/L AS B)		CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)		CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)		CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)		COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)		IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	
OCT 14...	--	--	--	--	<1	<1	2	<1	<1	<1	5	2	2100	
DEC 02...	2	2	190	190	<1	<1	2	<1	<1	<1	5	2	2000	
30...	--	--	--	--	<1	<1	2	<1	3	7	3	2000		
JAN 20...	--	--	--	--	<1	<1	2	<1	<1	<1	7	3	1400	
FEB 24...	--	--	--	--	<1	<1	1	<1	<1	<1	6	3	1700	
MAR 24...	--	--	--	--	<1	<1	2	<1	<1	<1	5	3	1600	
APR 21...	--	--	--	--	<1	<1	9	<1	<1	<1	20	2	18000	
MAY 26...	5	1	70	60	<1	<1	5	<1	<1	<1	11	2	10000	
JUN 23...	--	--	--	--	<1	<1	5	<1	<1	<1	11	1	8500	
JUL 28...	--	--	--	--	<1	<1	2	<1	<1	<1	6	2	4800	
AUG 18...	--	--	--	--	<1	<1	2	<1	<1	<1	2	2	530	
SEP 29...	--	--	--	--	<1	<1	2	<1	<1	<1	6	2	3300	

DATE	IRON, DIS- SOLVED (UG/L AS FE)		LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)		MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)		NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)		SELE- NIUM, DIS- SOLVED (UG/L AS SE)		ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)		ZINC, DIS- SOLVED (UG/L AS ZN)		CYANIDE TOTAL (MG/L AS CN)	
OCT 14...	21	3	<1	130	58	5	4	--	30	11	--	--				
DEC 02...	30	4	<1	150	80	4	3	--	30	11	<0.01	--				
30...	50	4	<1	190	120	5	3	--	30	14	--	--				
JAN 20...	50	3	<1	170	120	5	3	--	30	16	--	--				
FEB 24...	37	3	<1	170	120	5	4	--	30	19	--	--				
MAR 24...	37	3	<1	160	98	4	3	--	30	21	--	--				
APR 21...	24	33	<1	500	29	15	2	3	120	<3	--	--				
MAY 26...	99	19	<1	370	13	10	<1	3	70	4	<0.01	--				
JUN 23...	38	15	<1	300	14	7	1	4	60	4	--	--				
JUL 28...	16	5	<1	120	10	5	2	5	30	9	--	--				
AUG 18...	9	1	<1	50	24	4	3	5	10	12	--	--				
SEP 29...	30	5	<1	100	20	4	3	4	30	10	--	--				

07105920 LITTLE FOUNTAIN CREEK ABOVE KEATON RESERVOIR NEAR FORT CARSON, CO

LOCATION.--Lat 38°40'54", long 104°51'29", in NE1/4SW1/4 sec.2, T.16 S, R.67 W., El Paso County, Hydrologic Unit 11020003, on right bank 100 ft upstream from Keaton Reservoir, 0.7 mi upstream from State Highway 115, and 4.8 mi southwest of Fort Carson.

DRAINAGE AREA.--11.0 mi².

PERIOD OF RECORD.--May 1978 to September 1987. October 1987 to September 1988, seasonal record only. February to September 1995. Water-quality data available, May 1978 to September 1982.

REVISED RECORDS.--WDR CO-80-1: 1979.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 6,430 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: May 9 to September 25. Records good except those for estimated daily discharges, which are poor. No known diversions upstream from station. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES FOR CURRENT YEAR.--Maximum discharge for period February to September about 500 ft³/s (estimated), May 30, gage height about 3.7 ft; minimum daily, 0.46 ft³/s, Mar. 1-3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	.46	1.4	49	140	8.8	3.1	1.8
2	---	---	---	---	---	.46	1.4	44	110	8.7	2.9	1.7
3	---	---	---	---	---	.46	1.4	43	95	8.5	2.7	1.6
4	---	---	---	---	---	.49	1.5	39	85	8.1	2.6	1.4
5	---	---	---	---	---	.76	1.7	42	80	7.7	2.4	1.4
6	---	---	---	---	---	.73	1.7	45	70	7.1	2.3	1.3
7	---	---	---	---	---	.73	1.8	45	60	6.5	2.2	1.3
8	---	---	---	---	---	.73	1.9	39	55	6.0	2.1	1.6
9	---	---	---	---	---	.80	2.1	33	49	5.6	6.0	3.0
10	---	---	---	---	---	1.0	1.7	29	45	5.2	3.0	4.5
11	---	---	---	---	---	1.4	2.2	28	41	5.0	2.4	3.5
12	---	---	---	---	---	1.3	2.3	29	37	4.8	3.5	2.4
13	---	---	---	---	---	1.1	3.1	29	33	4.7	5.0	2.0
14	---	---	---	---	---	1.1	3.8	27	29	4.6	5.6	1.7
15	---	---	---	---	---	1.1	3.8	27	25	4.5	5.2	1.5
16	---	---	---	---	---	1.3	4.3	27	23	4.5	4.5	1.4
17	---	---	---	---	---	1.8	4.7	80	22	6.0	3.5	1.4
18	---	---	---	---	---	1.6	4.9	100	25	8.0	3.2	1.5
19	---	---	---	---	---	1.6	4.4	115	22	7.0	10	1.5
20	---	---	---	---	---	1.5	5.3	125	19	8.5	6.5	1.5
21	---	---	---	---	---	1.5	1.5	135	16	8.0	4.5	1.4
22	---	---	---	---	---	.80	1.5	120	14	7.0	3.8	1.4
23	---	---	---	---	---	.75	1.4	5.9	102	12	6.2	3.4
24	---	---	---	---	---	.75	1.4	6.6	88	12	5.6	3.1
25	---	---	---	---	---	.76	1.4	7.5	75	11	5.2	3.0
26	---	---	---	---	---	.76	1.4	10	78	10	4.8	4.0
27	---	---	---	---	---	.75	1.3	10	65	9.5	4.4	3.2
28	---	---	---	---	---	.66	1.1	15	60	9.0	4.1	2.8
29	---	---	---	---	---	---	1.3	27	200	9.0	3.8	2.5
30	---	---	---	---	---	---	1.4	35	380	8.8	3.3	2.2
31	---	---	---	---	---	---	1.5	---	230	---	3.2	2.0
TOTAL	---	---	---	---	---	35.62	178.3	2528	1176.3	185.4	113.2	50.5
MEAN	---	---	---	---	---	1.15	5.94	81.5	39.2	5.98	3.65	1.68
MAX	---	---	---	---	---	1.8	35	380	140	8.8	10	4.5
MIN	---	---	---	---	---	.46	1.4	27	8.8	3.2	2.0	1.1
AC-FT	---	---	---	---	---	71	354	5010	2330	368	225	100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1995, BY WATER YEAR (WY)

	1978	1979	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	4.31	2.51	1.32	1.10	1.02	1.69	7.51	27.6	12.6	4.31	6.86	3.32	
MAX	29.0	13.0	3.89	2.25	1.78	5.13	17.6	81.5	39.2	11.6	28.2	13.5	
(WY)	1985	1985	1985	1985	1983	1987	1987	1995	1995	1985	1982	1982	
MIN	.18	.29	.30	.30	.36	.52	.75	.90	1.04	.17	.11	.032	
(WY)	1979	1979	1979	1979	1981	1981	1981	1981	1978	1978	1978	1978	

SUMMARY STATISTICS ^aWATER YEARS 1978 - 1995

ANNUAL MEAN	6.00
HIGHEST ANNUAL MEAN	12.2 1985
LOWEST ANNUAL MEAN	2.19 1986
HIGHEST DAILY MEAN	380 May 30 1995
LOWEST DAILY MEAN	.00 Aug 22 1978
ANNUAL SEVEN-DAY MINIMUM	.00 Aug 22 1978
INSTANTANEOUS PEAK FLOW	513 Jun 3 1981
INSTANTANEOUS PEAK STAGE	3.72 Jun 3 1981
ANNUAL RUNOFF (AC-FT)	4350
10 PERCENT EXCEEDS	16
50 PERCENT EXCEEDS	1.8
90 PERCENT EXCEEDS	.46

a-Does not include 1988 to 1994 water years.

b-Estimated.

c-From rating curve extended above 70 ft³/s, on basis of slope-area measurement of peak flow.

d-From floodmark.

07105928 LITTLE FOUNTAIN CREEK NEAR FORT CARSON, CO

LOCATION.--Lat 38°40'49", long 104°51'08", in SW¹/4SE¹/4 sec.2, T.16 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on right bank 0.3 mi downstream from Keaton Reservoir, 0.4 mi upstream from State Highway 115, 1.2 mi upstream from Deadman Canyon, and 4.8 mi southwest of Fort Carson.

DRAINAGE AREA.--11.8 mi².

PERIOD OF RECORD.--Streamflow records, May 1978 to September 1989. January to September 1995. Water-quality data available, May to September 1978.

REVISED RECORDS--WDR CO-80-1: 1979.

GAGE.--Water-stage recorder. Elevation of gage is 6,360 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Jan. 28 to Feb. 3, Feb. 12-23, and Feb. 28 to Mar. 6. Records good except for estimated daily discharges, and those above 160 ft³/s, which are poor. At times during the year, natural flow of stream may be affected by Womack ditch. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 524 ft³/s, May 30, 1995, gage height, 6.11 ft, from rating curve extended above 160 ft³/s; no flow at times most years.

EXTREMES FOR PERIOD JANUARY TO SEPTEMBER.--Maximum discharge, 524 ft³/s, May 30, gage height, 6.11 ft, from rating curve extended above 160 ft³/s; minimum daily, 0.04 ft³/s, Jan. 27-30, and Sept. 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	.05	.13	1.1	38	122	8.2	1.6	.27
2	---	---	---	---	.05	.11	1.2	34	96	8.0	1.3	.20
3	---	---	---	---	.06	.10	1.3	39	89	7.1	1.2	.17
4	---	---	---	---	.09	.12	1.3	34	85	6.6	1.1	.16
5	---	---	---	---	.16	.14	1.5	37	76	6.3	1.0	.12
6	---	---	---	---	.16	.17	1.6	49	65	5.7	.85	.07
7	---	---	---	---	.18	.20	1.6	45	56	5.0	.70	.08
8	---	---	---	---	.19	.21	1.7	36	50	4.4	.63	.09
9	---	---	---	---	.22	.24	2.0	30	46	3.9	1.3	.27
10	---	---	---	---	.18	.51	1.7	26	41	3.7	.35	.65
11	---	---	---	.10	.14	.87	2.6	25	37	3.5	.51	.58
12	---	---	---	.09	.12	1.0	2.0	27	33	3.3	.70	.40
13	---	---	---	.10	.10	.84	3.8	27	30	2.9	.89	.23
14	---	---	---	.19	.10	.75	3.9	26	27	2.8	.79	.14
15	---	---	---	.38	.11	.66	3.8	26	24	2.9	.87	.08
16	---	---	---	.40	.12	.90	4.3	27	22	2.7	.67	.05
17	---	---	---	.16	.13	1.4	5.0	69	20	3.9	.54	.04
18	---	---	---	.15	.14	1.2	5.0	86	21	4.3	.47	.05
19	---	---	---	.13	.15	1.3	4.8	106	18	3.4	3.1	.07
20	---	---	---	.11	.16	2.1	5.6	109	16	4.1	1.6	.07
21	---	---	---	.10	.17	.95	3.0	122	14	4.0	1.2	.08
22	---	---	---	.08	.18	1.1	6.0	107	12	3.7	.92	.08
23	---	---	---	.08	.20	1.1	6.0	90	11	3.6	.84	.07
24	---	---	---	.08	.23	1.1	6.2	73	11	3.4	.71	.06
25	---	---	---	.06	.28	1.0	6.8	64	10	3.0	.64	.06
26	---	---	---	.05	.30	1.1	9.5	68	9.3	2.6	.85	.06
27	---	---	---	.04	.31	.93	9.5	60	8.5	2.2	.66	.05
28	---	---	---	.04	.18	1.0	14	53	8.2	2.0	.49	.05
29	---	---	---	.04	---	1.1	21	153	8.1	1.8	.42	.05
30	---	---	---	.04	---	1.2	33	351	8.2	1.7	.41	.06
31	---	---	---	.05	---	1.0	---	180	---	1.7	.36	---
TOTAL MEAN	---	---	---	---	4.46	24.53	170.8	2217	1074.3	122.4	27.67	4.41
MAX	---	---	---	---	.16	.79	5.69	71.5	35.8	3.95	.89	.15
MIN	---	---	---	---	.31	2.1	33	351	122	8.2	3.1	.65
AC-FT	---	---	---	---	.05	.10	1.1	25	8.1	1.7	.35	.04
AC-FT	---	---	---	---	8.8	49	339	4400	2130	243	55	8.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1995, BY WATER YEAR (WY)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	3.35	1.50	.34	.18	.30	.89	5.42	21.3	10.1	2.71	5.11	1.99						
MAX	31.2	14.2	2.88	.98	1.27	3.71	18.2	71.5	35.8	9.98	27.1	12.6						
(WY)	1985	1985	1985	1985	1983	1987	1985	1995	1995	1985	1982	1982						
MIN	.000	.000	.000	.000	.000	.085	.064	.071	.31	.000	.000	.000						
(WY)	1979	1979	1979	1979	1979	1989	1989	1981	1988	1978	1978	1978						

SUMMARY STATISTICS

WATER YEARS 1978 - 1995

ANNUAL MEAN	4.06
HIGHEST ANNUAL MEAN	11.7
LOWEST ANNUAL MEAN	.22
HIGHEST DAILY MEAN	351
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
INSTANTANEOUS PEAK FLOW	524
INSTANTANEOUS PEAK STAGE	6.11
ANNUAL RUNOFF (AC-FT)	2940
10 PERCENT EXCEEDS	12
50 PERCENT EXCEEDS	.45
90 PERCENT EXCEEDS	.00

a-From rating curve extended above 160 ft³/s.

07105945 ROCK CREEK ABOVE FORT CARSON RESERVATION, CO

LOCATION.--Lat 38°42'27", long 104°50'46", in NW¹/4NW¹/4 sec.36, T.15 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on right bank 20 ft upstream from county road bridge, 0.6 mi northwest of Rock Creek Park, 1.2 mi upstream from State Highway 115, and 3.2 mi southwest of Ft. Carson.

DRAINAGE AREA.--6.79 mi².

PERIOD OF RECORD.--May 1978 to current year. Water-quality data available, May to September 1978.

REVISED RECORDS.--WDR CO-85-1: 1982.

GAGE.--Water-stage recorder. Elevation of gage is 6,390 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Jan. 22-25, 28, 29, Feb. 1-3, 11, Mar. 1, May 26, 28 to June 1. Records fair except those for estimated daily discharges, and those above 150 ft³/s, which are poor. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.1	.71	.68	.46	.73	.62	33	90	8.3	1.8	.54
2	.77	1.1	.71	.68	.47	.81	.64	21	68	8.0	1.6	.48
3	.43	1.1	.71	.62	.47	.86	.63	24	59	7.2	1.5	.52
4	.80	1.1	.72	.57	.47	.89	.63	20	53	6.9	1.5	.55
5	1.8	1.1	.73	.59	.48	.76	.66	26	48	5.9	1.5	.44
6	1.2	1.0	.80	.55	.49	.72	.67	37	44	5.1	1.5	.39
7	.95	.94	.77	.56	.50	.67	.65	33	40	4.5	1.5	.65
8	1.1	.96	.77	.60	.53	.79	.66	25	38	4.2	1.4	.91
9	.99	.95	.76	.68	.54	.70	.80	19	43	4.1	1.4	1.9
10	.86	.94	.70	.63	.50	.81	.74	17	40	3.6	1.2	2.6
11	.76	.91	.76	.57	.65	1.0	.80	17	37	3.4	1.2	1.9
12	.71	.85	.71	.59	.78	1.1	.98	19	31	3.2	1.5	1.3
13	.69	.82	.71	.62	.76	1.0	1.3	19	26	2.9	1.7	.97
14	.70	.85	.71	.67	.89	.91	1.5	17	21	2.9	1.6	.81
15	3.8	.81	.71	.69	.84	.87	1.6	15	18	2.9	1.7	.68
16	2.9	.91	.64	.66	.76	.91	1.6	15	16	2.8	1.3	.59
17	2.8	.91	.70	.82	.74	1.1	1.8	57	15	4.6	1.1	.56
18	2.7	.77	.63	.69	.67	1.0	1.9	53	16	4.3	1.0	.63
19	2.4	.76	.59	.77	.66	1.0	2.1	48	12	3.7	5.9	.71
20	2.1	.91	.60	.71	.71	.97	2.7	42	9.9	4.4	2.4	.75
21	1.9	.94	.63	.69	.72	.88	2.8	40	8.8	3.6	1.7	.91
22	1.7	.93	.57	.62	.75	.84	3.2	37	8.0	3.2	1.4	.90
23	1.6	.85	.56	.60	.71	.76	3.2	28	7.7	3.2	1.3	.90
24	1.6	.90	.53	.56	.69	.68	3.7	22	7.4	2.9	1.2	.81
25	1.5	.89	.53	.52	.71	.66	5.2	29	7.0	2.5	1.1	.78
26	1.4	.90	.54	.53	.74	.65	7.1	42	5.6	2.2	1.2	.67
27	1.3	.78	.53	.53	.70	.61	6.2	36	5.0	2.0	1.1	.55
28	1.2	.76	.56	.52	.68	.62	10	30	4.9	1.8	1.0	.50
29	1.2	.74	.59	.51	---	.59	17	100	5.8	1.7	.85	.54
30	1.2	.81	.59	.51	---	.59	32	175	7.2	1.8	.70	.60
31	1.2	---	.56	.49	---	.59	---	115	---	1.8	.63	---
TOTAL	45.36	27.29	20.33	19.03	18.07	25.07	113.38	1211	792.3	119.6	46.48	25.04
MEAN	1.46	.91	.66	.61	.65	.81	3.78	39.1	26.4	3.86	1.50	.83
MAX	3.8	1.1	.80	.82	.89	1.1	32	175	90	8.3	5.9	2.6
MIN	.43	.74	.53	.49	.46	.59	.62	15	4.9	1.7	.63	.39
AC-FT	90	54	40	38	36	50	225	2400	1570	237	92	50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1995, BY WATER YEAR (WY)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1.78	1.14	.52	.49	.50	1.02	4.41	10.5	4.84	2.01	2.81	1.35						
MAX	20.7	10.7	2.25	1.42	1.33	2.43	12.3	39.1	26.4	7.23	14.8	7.75						
(WY)	1985	1985	1985	1985	1985	1987	1985	1995	1995	1985	1982	1982						
MIN	.000	.028	.051	.073	.12	.29	.34	.56	.32	.010	.000	.000						
(WY)	1979	1979	1979	1979	1979	1981	1981	1981	1988	1978	1978	1978						

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1978 - 1995

ANNUAL TOTAL		1060.99		2462.95									
ANNUAL MEAN		2.91		6.75						2.68			
HIGHEST ANNUAL MEAN										7.70			1985
LOWEST ANNUAL MEAN										.36			1989
HIGHEST DAILY MEAN		75	May 10	175	May 30					175	May 30	1995	
LOWEST DAILY MEAN		.13	Aug 10	.39	Sep 6					a.00	Jul 6	1978	
ANNUAL SEVEN-DAY MINIMUM		.24	Jan 30	.48	Jan 31					b.00	Jul 6	1978	
INSTANTANEOUS PEAK FLOW				b ₃₇₇	May 29					b ₃₇₇	May 29	1995	
INSTANTANEOUS PEAK STAGE				c _{5.28}	May 29					c _{5.28}	May 29	1995	
ANNUAL RUNOFF (AC-FT)		2100		4890						1940			
10 PERCENT EXCEEDS		9.0		21						6.0			
50 PERCENT EXCEEDS		.89		.94						.68			
90 PERCENT EXCEEDS		.27		.56						.14			

a-No flow many days in most years.

b-From rating curve extended above 130 ft³/s.

c-From floodmark.

ARKANSAS RIVER BASIN

07105950 ROCK CREEK NEAR FORT CARSON, CO

LOCATION.--Lat 38°41'49", long 104°49'39", in SW¹/4SW¹/4 sec.31, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on left bank at Fort Carson Girl Scout Camp, 0.2 mi downstream from bridge on State Highway 115 and 2.9 mi southwest of Fort Carson.

DRAINAGE AREA.--7.79 mi².

PERIOD OF RECORD.--May 1978 to current year. Water-quality data available, May 1978 to September 1981.

GAGE.--Water-stage recorder. Elevation of gage is 6,150 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair except for discharges above 100 ft³/s, which are poor. Some diversions upstream from station for irrigation and other uses, amounts unknown. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	32	71	4.6	1.3	.12
2	.00	.00	.00	.00	.00	.00	.00	19	55	4.4	.82	.12
3	.00	.00	.00	.00	.00	.00	.00	20	45	3.9	.47	.11
4	.00	.00	.00	.00	.00	.00	.00	15	41	3.5	.42	.11
5	.00	.00	.00	.00	.00	.00	.00	20	36	3.2	.39	.11
6	.00	.00	.00	.00	.00	.00	.00	28	31	2.9	.36	.10
7	.00	.00	.00	.00	.00	.00	.00	27	27	2.6	.33	.10
8	.00	.00	.00	.00	.00	.00	.00	21	26	2.5	.31	.11
9	.00	.00	.00	.00	.00	.00	.00	17	31	2.2	.28	.12
10	.00	.01	.00	.00	.00	.00	.00	14	28	2.1	.26	.14
11	.00	.03	.00	.00	.00	.00	.00	14	25	2.0	.23	.11
12	.00	.04	.00	.00	.00	.00	.00	16	23	1.9	.21	.09
13	.00	.04	.00	.00	.00	.00	.00	16	21	1.9	.19	.08
14	.00	.03	.00	.00	.00	.00	.00	14	19	1.9	.17	.07
15	.00	.04	.00	.00	.00	.00	.00	12	17	1.9	.15	.05
16	.00	.04	.00	.00	.00	.00	.00	11	15	2.1	.14	.02
17	.00	.03	.00	.00	.00	.00	.00	61	14	2.7	.12	.01
18	.00	.00	.00	.00	.00	.00	.00	88	13	3.4	.11	.00
19	.00	.00	.00	.00	.00	.00	.00	71	10	3.0	.20	.00
20	.00	.00	.00	.00	.00	.00	.00	59	8.5	3.5	.15	.00
21	.00	.00	.00	.00	.00	.00	.00	53	7.5	3.2	.13	.00
22	.00	.00	.00	.00	.00	.00	.00	43	7.0	2.9	.13	.00
23	.00	.00	.00	.00	.00	.00	.00	35	6.7	2.7	.14	.00
24	.00	.00	.00	.00	.00	.00	.00	29	5.9	2.7	.15	.00
25	.00	.00	.00	.00	.00	.00	.00	33	5.8	2.3	.15	.00
26	.00	.00	.00	.00	.00	.00	1.3	45	4.8	2.1	.15	.00
27	.00	.00	.00	.00	.00	.00	4.7	38	4.2	1.9	.15	.00
28	.00	.00	.00	.00	.00	.00	12	33	3.4	1.7	.13	.00
29	.00	.00	.00	.00	---	.00	29	128	3.5	1.6	.13	.00
30	.00	.00	.00	.00	---	.00	40	183	4.1	1.5	.12	.00
31	.00	---	.00	.00	---	.00	---	98	---	1.5	.12	---
TOTAL	0.00	0.26	0.00	0.00	0.00	0.00	87.00	1293	609.4	80.3	8.11	1.57
MEAN	.000	.009	.000	.000	.000	.000	2.90	41.7	20.3	2.59	.26	.052
MAX	.00	.04	.00	.00	.00	.00	40	183	71	4.6	1.3	.14
MIN	.00	.00	.00	.00	.00	.00	.00	11	3.4	1.5	.11	.00
AC-FT	.00	.5	.00	.00	.00	.00	173	2560	1210	159	16	3.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1995, BY WATER YEAR (WY)

MEAN	1.18	.60	.099	.057	.043	.16	2.86	9.39	3.37	1.16	1.51	.62
MAX	18.6	9.66	1.43	.81	.67	1.28	10.0	42.8	20.3	6.57	15.4	6.75
(WY)	1985	1985	1985	1985	1985	1985	1985	1980	1995	1982	1982	1982
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1979	1979	1979	1979	1979	1979	1981	1989	1989	1978	1978	1978

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1978 - 1995

ANNUAL TOTAL	659.96	2079.64	
ANNUAL MEAN	1.81	5.70	1.80
HIGHEST ANNUAL MEAN			6.24 1985
LOWEST ANNUAL MEAN			.000 1989
HIGHEST DAILY MEAN	95	183	183 May 30 1995
LOWEST DAILY MEAN	.00	a .00	a .00 Jun 15 1978
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00 Oct 1 1978
INSTANTANEOUS PEAK FLOW		b 406	b 406 May 29 1995
INSTANTANEOUS PEAK STAGE		6.99	6.99 May 29 1995
ANNUAL RUNOFF (AC-FT)	1310	4120	1300
10 PERCENT EXCEEDS	4.5	19	3.9
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

a-No flow most of time.

b-From rating curve extended above 100 ft³/s.

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO

LOCATION.--Lat 38°36'06", long 104°40'11", in SW¹/4NE¹/4 sec.4, T.17 S., R.65 W., El Paso County, Hydrologic Unit 11020003, at left upstream end of Old Pueblo Road bridge, 100 ft downstream from Denver & Rio Grande Railroad bridge, 0.90 mi downstream from Little Fountain Creek, and 5.6 mi south of Fountain.

DRAINAGE AREA.--681 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1938 to March 1, 1940 (monthly records only), March 2, 1940 to September 1954; July 2, 1985 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,355 ft above sea level, from topographic map. Sept. 18, 1938 to Mar. 1, 1940, nonrecording gage, and Mar. 2, 1940 to Sept. 30, 1954, recording gage, both at different datum and at site 200 ft downstream. July 2, 1985 to Sept. 2, 1987, recording gage at site 500 ft downstream, at different datum. Sept. 3, 1987 to Mar. 13, 1990, recording gage at site 1,100 ft upstream at different datums.

REMARKS.--Estimated daily discharges: May 21-22, Aug. 2-4. Records good except those above about 2,000 ft³/s, which are poor. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, municipal use, and return flows from irrigation and sewage effluent discharges.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 14.4 ft, at different datum, May 30, 1935, but was probably exceeded by the flood of June 1965.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	84	100	121	101	139	124	356	1210	1280	158	87
2	564	89	111	125	107	138	116	331	1280	797	155	82
3	125	103	105	128	108	168	104	327	1720	578	140	111
4	1220	133	96	120	107	138	96	324	1350	618	164	89
5	295	135	100	123	109	126	91	503	1210	551	182	78
6	189	137	89	137	110	151	92	419	932	447	143	81
7	153	138	79	126	105	136	89	363	827	360	124	200
8	156	126	116	133	108	119	89	335	989	340	114	172
9	108	124	116	131	117	124	124	330	1140	340	114	472
10	91	155	127	126	113	126	161	287	862	334	113	515
11	89	154	132	124	114	123	133	238	766	278	130	216
12	83	149	134	117	107	129	121	250	706	251	143	153
13	94	146	138	118	109	130	116	266	652	262	147	141
14	155	148	130	120	186	129	102	240	636	352	119	139
15	586	138	124	130	123	122	108	242	611	620	158	138
16	210	105	129	133	130	115	112	254	612	498	120	125
17	373	109	134	126	117	180	174	3580	597	665	88	121
18	147	107	137	124	126	143	188	1390	1040	498	78	132
19	119	109	133	127	121	151	342	1220	582	475	1020	183
20	128	148	126	133	126	158	241	1130	506	621	194	155
21	136	135	128	120	134	144	372	1000	456	487	113	192
22	141	105	126	122	125	139	270	1100	429	389	141	182
23	126	102	126	118	133	136	259	1300	723	411	365	176
24	100	128	128	116	141	132	294	1390	542	440	138	178
25	110	126	122	127	140	130	240	1130	703	299	355	190
26	101	131	125	125	140	126	369	1230	394	226	256	186
27	83	130	126	127	143	129	272	1040	391	239	203	175
28	107	112	125	112	143	133	256	862	813	214	129	166
29	92	90	126	104	---	135	322	1810	1030	177	117	184
30	90	99	135	99	---	132	353	2930	846	183	107	184
31	102	---	126	106	---	127	---	1700	---	171	107	---
TOTAL	6238	3695	3749	3798	3443	4208	5730	27877	24555	13401	5635	5203
MEAN	201	123	121	123	123	136	191	899	818	432	182	173
MAX	1220	155	138	137	186	180	372	3580	1720	1280	1020	515
MIN	83	84	79	99	101	115	89	238	391	171	78	78
AC-FT	12370	7330	7440	7530	6830	8350	11370	55290	48700	26580	11180	10320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955
MEAN	50.3	64.8	53.8	55.3	60.8	69.9	94.4	187	134	89.1	106	50.2					
MAX	201	137	155	123	139	199	590	899	818	432	476	173					
(WY)	1995	1986	1986	1995	1988	1987	1942	1995	1995	1995	1945	1995					
MIN	3.70	10.0	5.14	6.99	6.07	6.39	4.30	9.78	4.50	3.47	3.15	1.31					
(WY)	1954	1940	1953	1952	1941	1941	1954	1950	1953	1952	1954	1939					

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	FOR 1996 WATER YEAR	FOR 1997 WATER YEAR	FOR 1998 WATER YEAR	FOR 1999 WATER YEAR	FOR 2000 WATER YEAR	FOR 2001 WATER YEAR	FOR 2002 WATER YEAR	FOR 2003 WATER YEAR	FOR 2004 WATER YEAR	FOR 2005 WATER YEAR	FOR 2006 WATER YEAR	FOR 2007 WATER YEAR	FOR 2008 WATER YEAR	FOR 2009 WATER YEAR	FOR 2010 WATER YEAR
ANNUAL TOTAL		58311															
ANNUAL MEAN		160															
HIGHEST ANNUAL MEAN																	
LOWEST ANNUAL MEAN																	
HIGHEST DAILY MEAN																	
LOWEST DAILY MEAN																	
ANNUAL SEVEN-DAY MINIMUM																	
INSTANTANEOUS PEAK FLOW																	
INSTANTANEOUS PEAK STAGE																	
ANNUAL RUNOFF (AC-FT)		115700															
10 PERCENT EXCEEDS		279															
50 PERCENT EXCEEDS		116															
90 PERCENT EXCEEDS		63															

a-Also occurred Sep 30, 1939.
 b-From rating curve extended above 3000 ft³/s, on basis of slope-area measurement of peak flow.
 c-At different datum.
 d-Maximum gage height, 10.34 ft, Sep 3, 1994, present datum.
 e-Also occurred Sep 5.

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1987 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1987 to current year.
 WATER TEMPERATURE: November 1987 to current year.
 pH: November 1987 to current year.
 DISSOLVED OXYGEN: November 1987 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for daily water temperature are good, those for daily specific conductance and daily pH are fair, and those for daily dissolved oxygen are poor. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,560 microsiemens, Mar. 13, 1988; minimum, 141 microsiemens, Aug. 8, 1991.
 pH: Maximum, 8.5 units, July 15, Sept. 4, 1991; minimum 7.2 units, Sept. 9, 1993 and May 9, 1994..
 WATER TEMPERATURE: Maximum, 31.8°C, July 9, 1990; minimum, 0.0°C, on many days during winter months.
 DISSOLVED OXYGEN: Maximum, 12.6 mg/L, Dec. 20, 1987; minimum, 3.7 mg/L, July 9, 1993.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,230 microsiemens, Mar. 3; minimum, 245 microsiemens, July 2-3.
 pH: Maximum, 8.4 units, Sept. 18; minimum, 7.3 units, several days December to September.
 WATER TEMPERATURE: Maximum, 29.6°C, Aug. 11; minimum, 0.0°C, on several days January-March.
 DISSOLVED OXYGEN: Maximum, 11.3 mg/L, Jan. 2; minimum, 4.4 mg/L, Mar. 14.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1100	982	1060	1040	969	996	1070	993	1030	1040	986	1010
2	---	---	---	1060	990	1020	1090	973	1020	1070	919	1010
3	975	932	949	1050	987	1020	1090	992	1040	1050	953	1020
4	---	---	---	1010	953	997	1090	992	1040	1110	902	1020
5	770	536	656	---	---	---	1080	1010	1040	1140	1040	1090
6	904	744	791	---	---	---	1120	1020	1070	1130	1030	1080
7	843	714	774	---	---	---	1180	993	1090	1190	1020	1100
8	1000	817	929	1090	1020	1050	1040	972	1010	1100	1000	1050
9	993	902	950	1100	993	1060	1060	950	1000	1120	1010	1050
10	1020	943	975	1040	971	1000	1100	996	1050	1070	963	1010
11	1080	962	1010	1050	982	1010	1090	1000	1040	1050	967	998
12	1060	---	---	1060	1000	1030	1070	994	1020	1070	981	1020
13	---	---	---	1060	985	1030	1040	974	1000	1060	978	1010
14	1090	---	---	1020	980	1000	1070	970	1020	1060	972	999
15	1080	---	---	1070	991	1020	1060	985	1010	1040	948	991
16	---	---	---	1100	984	1040	1060	969	1010	1030	957	985
17	---	---	---	1150	986	1070	1030	943	988	1050	974	1000
18	977	850	920	1090	970	1020	1020	922	961	1060	968	1010
19	1040	940	1000	1110	964	1040	991	877	936	1080	961	1010
20	1100	1020	1060	1190	947	1010	1030	913	944	1040	957	991
21	1100	1030	1070	1120	948	1070	1020	941	971	1060	977	1000
22	1150	1080	1110	1030	973	1010	1000	940	970	1040	909	989
23	1180	1010	1120	1040	950	979	994	919	957	1050	891	982
24	1140	968	1060	1070	934	1000	1050	899	970	1070	953	990
25	1060	985	1020	---	---	---	1060	982	1020	1050	934	979
26	1060	1020	1040	---	---	---	1030	953	991	1020	920	958
27	1120	1010	1060	---	---	---	1030	913	975	993	915	952
28	1070	996	1030	1120	1050	1080	1040	981	1000	1000	937	967
29	1050	979	1020	1160	1040	1110	1040	980	1000	994	895	951
30	1020	936	988	1150	1010	1100	1020	960	988	974	897	927
31	1010	937	973	---	---	---	1050	973	1000	979	890	923
MONTH	---	---	---	---	---	---	1180	877	1010	1190	890	1000

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.0	7.6	7.9	7.8	7.7	7.7	7.9	7.8	7.9	7.9	7.6	7.8
2	8.2	7.6	7.8	7.7	7.7	7.7	7.9	7.5	7.7	7.9	7.6	7.7
3	7.9	7.5	7.6	7.8	7.7	7.7	7.7	7.5	7.6	7.9	7.7	7.8
4	7.9	7.5	7.8	7.8	7.7	7.7	7.8	7.6	7.7	7.8	7.5	7.7
5	7.7	7.6	7.7	---	---	---	7.7	7.3	7.6	7.8	7.5	7.6
6	7.8	7.6	7.7	---	---	---	7.6	7.3	7.4	7.8	7.8	7.8
7	7.8	7.7	7.8	---	---	---	7.7	7.3	7.5	7.8	7.7	7.8
8	7.8	7.7	7.8	7.8	7.8	7.8	7.7	7.3	7.5	7.8	7.7	7.8
9	7.8	7.8	7.9	7.8	7.6	7.8	7.8	7.5	7.7	7.8	7.7	7.8
10	8.0	7.8	7.9	7.8	7.6	7.7	7.8	7.5	7.8	7.8	7.7	7.8
11	8.1	7.9	8.0	7.7	7.5	7.7	7.7	7.4	7.7	7.8	7.7	7.8
12	8.1	8.0	8.1	7.9	7.7	7.7	7.7	7.5	7.7	7.8	7.7	7.8
13	8.2	8.0	8.1	7.9	7.7	7.8	7.7	7.6	7.7	7.8	7.7	7.8
14	8.1	8.0	8.0	7.9	7.8	7.9	7.8	7.4	7.5	7.8	7.7	7.7
15	8.1	7.8	8.0	7.9	7.7	7.9	7.8	7.6	7.7	7.9	7.8	7.8
16	8.1	7.6	7.8	8.0	7.7	7.9	7.8	7.6	7.7	7.9	7.8	7.8
17	8.1	7.6	7.9	8.0	7.9	8.0	7.7	7.6	7.7	7.8	7.7	7.8
18	8.2	7.8	8.0	8.0	7.8	8.0	7.7	7.6	7.7	7.9	7.7	7.8
19	8.0	7.8	7.9	8.0	7.8	7.9	7.7	7.4	7.6	8.0	7.7	7.8
20	7.9	7.7	7.8	8.0	7.8	7.9	7.7	7.5	7.6	8.0	7.8	7.8
21	7.8	7.7	7.8	8.0	7.8	8.0	7.7	7.6	7.7	8.0	7.8	7.9
22	7.8	7.6	7.7	8.0	8.0	8.0	7.7	7.6	7.7	7.9	7.7	7.8
23	7.8	7.6	7.7	8.0	7.8	8.0	7.7	7.6	7.7	8.0	7.7	7.9
24	7.8	7.5	7.7	8.0	7.8	8.0	7.7	7.6	7.7	8.1	7.9	7.9
25	7.7	7.5	7.6	8.0	7.7	7.8	7.7	7.7	7.7	8.0	7.6	7.8
26	7.7	7.6	7.6	8.0	7.7	7.9	7.8	7.7	7.7	7.7	7.5	7.6
27	7.7	7.6	7.7	8.0	7.7	7.9	7.8	7.7	7.8	7.7	7.6	7.7
28	7.6	7.6	7.6	8.0	7.6	7.9	7.8	7.7	7.8	7.7	7.6	7.7
29	7.7	7.6	7.7	8.0	7.8	7.9	7.8	7.6	7.8	7.7	7.5	7.6
30	7.7	7.7	7.7	8.1	7.7	8.0	7.8	7.6	7.7	7.7	7.5	7.6
31	7.7	7.7	7.7	---	---	---	7.8	7.6	7.7	7.8	7.6	7.7
MONTH	8.2	7.5	7.8	---	---	---	7.9	7.3	7.7	8.1	7.5	7.8
	FEBRUARY			MARCH			APRIL			MAY		
1	7.8	7.5	7.7	8.3	7.9	8.2	8.0	7.7	7.9	7.8	7.7	7.8
2	7.8	7.6	7.7	8.2	7.9	8.1	7.9	7.7	7.8	7.9	7.8	7.8
3	7.8	7.6	7.7	8.2	8.0	8.1	7.9	7.7	7.8	7.9	7.7	7.8
4	7.9	7.7	7.8	8.1	7.9	8.0	7.9	7.7	7.8	7.9	7.7	7.8
5	7.8	7.7	7.8	8.0	7.9	8.0	7.9	7.7	7.8	7.9	7.6	7.8
6	8.0	7.7	7.8	8.0	7.8	7.9	7.9	7.7	7.8	7.9	7.7	7.8
7	8.0	7.8	7.9	7.9	7.8	7.9	7.9	7.7	7.8	7.8	7.7	7.8
8	8.0	7.8	7.9	7.9	7.9	7.9	7.9	7.7	7.8	7.8	7.6	7.7
9	8.2	7.8	8.0	7.9	7.8	7.9	7.9	7.7	7.8	7.8	7.6	7.7
10	8.0	---	---	7.9	7.8	7.9	7.9	7.7	7.9	7.8	7.6	7.7
11	7.8	7.7	7.7	7.9	7.7	7.8	7.9	7.8	7.9	8.0	7.8	7.9
12	---	---	---	7.8	7.7	7.8	8.0	7.8	7.9	8.0	7.6	7.8
13	---	---	---	7.9	7.7	7.8	7.9	7.8	7.9	8.0	7.8	7.9
14	7.8	7.7	7.8	7.8	7.7	7.8	8.0	7.8	7.9	8.0	7.7	7.9
15	8.0	7.8	7.9	7.9	7.7	7.8	7.9	7.7	7.8	8.0	7.7	7.9
16	8.0	7.9	8.0	7.9	7.7	7.8	7.9	7.7	7.8	8.0	7.6	7.8
17	8.0	7.9	8.0	8.0	7.6	7.7	7.8	7.7	7.8	7.9	7.5	7.7
18	8.1	7.9	8.0	8.0	7.6	7.8	8.0	7.7	7.8	---	---	---
19	8.0	7.9	7.9	7.7	7.6	7.7	7.9	7.7	7.8	---	---	---
20	8.0	7.9	8.0	7.8	7.7	7.7	7.9	7.7	7.9	---	---	---
21	8.0	7.9	8.0	7.8	7.7	7.7	7.8	7.8	7.8	---	---	---
22	8.0	7.9	8.0	7.8	7.7	7.7	8.0	7.8	7.9	---	---	---
23	8.0	7.9	8.0	7.8	7.7	7.7	8.0	7.8	7.9	---	---	---
24	8.1	8.0	8.0	7.8	7.7	7.7	8.0	7.8	7.9	---	---	---
25	8.1	8.0	8.1	7.9	7.7	7.8	8.1	7.8	7.9	---	---	---
26	8.1	8.0	8.0	7.9	7.8	7.8	7.9	7.7	7.9	---	---	---
27	8.1	8.0	8.1	7.9	7.8	7.9	8.0	7.8	7.9	---	---	---
28	8.2	8.0	8.1	7.9	7.8	7.8	7.9	7.7	7.8	---	---	---
29	---	---	---	7.9	7.8	7.9	7.8	7.5	7.7	---	---	---
30	---	---	---	8.0	7.8	7.9	7.8	7.6	7.7	---	---	---
31	---	---	---	8.0	7.8	7.9	---	---	---	---	---	---
MONTH	---	---	---	8.3	7.6	7.9	8.1	7.5	7.8	---	---	---

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.8	7.6	7.7	7.9	7.5	7.7	7.6	7.5	7.5
2	---	---	---	7.8	7.4	7.5	8.0	7.4	7.7	7.8	7.5	7.6
3	---	---	---	7.7	7.4	7.5	8.1	7.6	7.8	7.6	7.5	7.6
4	---	---	---	7.7	7.4	7.5	8.0	7.5	7.7	7.6	7.5	7.6
5	8.1	7.9	8.0	7.7	7.6	7.6	7.8	7.5	7.7	7.7	7.5	7.6
6	8.0	7.7	7.9	7.8	7.5	7.6	7.8	7.8	7.8	7.8	7.4	7.6
7	7.8	7.7	7.8	7.8	7.5	7.6	7.8	7.8	7.8	7.7	7.5	7.6
8	8.0	7.5	7.7	7.6	7.5	7.6	8.0	7.7	7.8	7.8	7.6	7.6
9	7.9	7.4	7.6	7.6	7.6	7.6	7.9	7.6	7.7	7.9	7.6	7.8
10	7.7	7.3	7.5	7.6	7.6	7.6	7.8	7.5	7.7	7.9	7.7	7.8
11	7.6	7.4	7.5	7.7	7.6	7.6	7.9	7.5	7.6	7.9	7.5	7.7
12	7.7	7.4	7.5	7.6	7.5	7.5	7.9	7.6	7.8	7.6	7.3	7.5
13	7.7	7.3	7.5	7.6	7.4	7.5	8.0	7.7	7.8	8.0	7.4	7.7
14	7.7	7.4	7.5	7.6	7.3	7.4	8.0	7.6	7.8	8.2	7.9	8.0
15	7.7	7.3	7.5	7.6	7.3	7.4	7.9	7.5	7.7	8.2	7.9	8.0
16	7.6	7.3	7.4	7.6	7.5	7.5	7.9	7.4	7.6	8.3	7.8	8.0
17	7.7	7.3	7.5	7.6	7.3	7.4	8.0	7.4	7.7	8.3	7.8	8.0
18	7.7	7.5	7.6	7.6	7.4	7.5	8.1	7.6	7.8	8.4	7.8	8.0
19	7.7	7.4	7.6	7.6	7.4	7.5	8.0	7.7	7.8	8.1	7.7	7.9
20	7.9	7.6	7.7	7.6	7.3	7.5	7.8	7.7	7.8	8.3	7.8	8.0
21	7.9	7.8	7.8	7.6	7.3	7.5	7.7	7.5	7.6	8.3	8.0	8.1
22	7.9	7.6	7.8	7.6	7.4	7.4	---	---	---	8.0	7.7	7.9
23	7.8	7.3	7.6	7.9	7.6	7.8	---	---	---	8.0	7.6	7.8
24	7.8	7.4	7.6	7.9	7.8	7.8	---	---	---	7.8	7.6	7.6
25	7.8	7.5	7.7	7.9	7.8	7.8	---	---	---	8.0	7.5	7.7
26	7.8	7.5	7.6	7.9	7.9	7.9	---	---	---	7.6	7.4	7.5
27	7.7	7.5	7.6	7.9	7.8	7.9	---	---	---	7.5	---	---
28	8.0	7.7	7.8	8.0	7.8	7.9	7.8	7.4	7.7	---	---	---
29	7.9	7.5	7.7	8.0	7.9	8.0	7.8	7.5	7.7	---	---	---
30	7.8	7.5	7.7	8.0	8.0	8.0	7.8	7.6	7.7	---	---	---
31	---	---	---	8.3	7.8	8.0	7.6	7.3	7.4	---	---	---
MONTH	---	---	---	8.3	7.3	7.6	---	---	---	---	---	---

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	7.8	16.3	11.3	6.8	8.3	10.3	2.5	6.0	5.8	1.9	2.8
2	13.2	5.8	9.9	11.6	7.2	9.5	9.8	2.9	6.0	6.7	1.9	3.1
3	18.1	11.5	13.8	8.1	6.5	7.3	9.6	3.5	6.2	2.7	1.5	2.0
4	15.3	12.3	14.0	10.1	6.4	7.6	10.9	5.1	7.7	3.4	1.3	1.7
5	18.8	14.2	15.7	---	---	---	7.0	5.7	6.3	4.9	1.3	2.5
6	18.6	10.1	14.5	---	---	---	6.6	4.5	5.6	4.9	1.0	2.4
7	16.8	10.3	12.6	---	---	---	7.3	2.6	4.6	7.1	.9	3.4
8	17.6	10.1	13.3	8.9	---	---	4.8	2.6	3.5	8.6	2.2	4.6
9	18.3	8.5	12.2	11.7	6.7	8.4	6.1	1.1	3.6	6.7	.6	3.5
10	18.8	9.1	11.7	12.3	5.1	8.3	5.2	.9	1.9	7.6	1.3	4.1
11	17.6	9.8	12.8	12.0	6.0	9.1	7.0	1.2	4.1	9.3	2.3	5.6
12	19.0	9.2	13.2	13.3	7.7	9.7	6.3	1.4	3.7	7.9	3.1	4.9
13	18.6	9.3	13.8	11.9	5.8	8.0	8.5	2.1	4.5	8.5	1.8	4.6
14	15.3	8.9	11.8	8.4	5.4	6.6	11.8	3.3	7.4	8.6	1.6	4.7
15	13.1	9.9	11.0	10.1	5.0	6.8	8.6	1.0	4.2	8.2	3.0	5.2
16	16.7	9.9	11.7	10.0	3.7	6.3	7.7	1.1	4.0	8.3	2.8	4.6
17	13.3	9.6	10.6	8.7	3.3	5.9	8.9	2.4	5.0	5.4	.2	2.6
18	15.0	8.5	11.1	8.6	1.9	4.6	9.5	1.5	5.1	6.1	.3	2.9
19	17.0	8.9	12.3	8.8	1.8	4.9	8.2	2.9	5.1	7.4	.0	3.1
20	16.8	7.7	11.7	9.0	1.5	4.7	8.5	1.3	4.7	5.6	1.0	3.1
21	16.4	7.9	11.7	4.9	3.2	4.0	9.5	2.4	5.6	6.4	.3	3.0
22	15.5	7.8	11.2	5.1	3.6	4.4	9.2	2.4	5.6	6.2	.0	2.5
23	16.1	7.5	11.3	8.7	.9	4.4	8.3	3.0	5.7	6.0	.0	2.2
24	14.2	7.9	10.3	9.4	1.9	5.3	9.7	4.1	6.7	7.5	.2	3.2
25	14.7	6.3	9.9	9.4	3.4	6.4	10.8	3.2	7.0	7.2	.7	3.7
26	15.1	6.9	10.6	9.0	3.9	6.1	10.8	4.7	7.2	6.8	2.0	4.5
27	15.2	7.4	11.0	7.4	2.0	4.1	10.2	3.4	6.2	7.3	4.3	5.4
28	16.4	9.0	12.0	5.8	.7	2.6	8.6	2.8	5.4	7.5	3.0	4.8
29	13.2	7.7	10.0	5.3	.6	2.2	8.1	2.6	5.2	7.1	2.5	4.3
30	9.7	6.1	8.8	9.7	1.1	4.9	6.7	3.9	5.0	8.1	.0	3.7
31	12.8	5.9	8.8	---	---	---	5.4	1.9	5.1	9.5	1.9	5.4
MONTH	20.5	5.8	11.9	---	---	---	11.8	.9	5.3	9.5	.0	3.7

07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.8	3.1	6.2	4.7	.0	1.5	16.6	4.3	9.8	13.6	7.0	10.0
2	10.1	3.4	6.3	7.3	.0	2.4	16.1	5.0	10.0	14.4	8.0	10.9
3	9.7	2.4	5.6	12.0	.0	5.1	17.5	6.0	11.3	13.8	7.7	10.8
4	10.3	2.6	6.0	12.3	2.3	6.8	18.5	6.1	11.9	16.0	7.0	11.3
5	9.0	2.5	5.6	12.9	4.3	7.8	17.0	6.7	11.8	13.1	7.5	10.4
6	10.7	2.6	6.4	8.7	3.4	5.9	19.3	7.5	12.7	11.2	6.6	8.8
7	8.1	3.8	5.5	11.1	2.4	5.9	17.5	7.9	12.5	11.2	9.5	10.2
8	7.0	2.1	4.6	8.4	1.2	4.9	19.8	8.4	13.4	10.8	9.3	10.0
9	10.6	3.4	6.1	15.3	2.2	8.0	11.4	4.6	7.4	11.4	9.1	10.3
10	7.7	1.8	4.2	17.0	4.4	10.1	10.3	2.7	5.8	12.7	9.3	10.6
11	4.4	.0	1.4	14.9	6.2	10.5	14.2	1.9	7.5	17.5	11.0	13.5
12	4.8	.0	1.4	11.8	6.1	9.0	16.5	4.4	10.0	17.0	9.7	12.9
13	5.5	.0	1.6	16.3	4.2	9.6	14.8	6.8	10.6	17.3	7.7	12.2
14	8.3	.0	3.2	16.8	5.1	10.3	16.2	7.3	11.0	18.0	9.1	13.3
15	7.2	.0	2.9	16.2	5.0	10.3	13.3	5.9	9.6	20.5	10.0	14.8
16	8.0	.0	3.4	16.7	6.1	10.9	17.6	6.5	11.0	20.0	11.1	14.6
17	8.1	.2	3.9	15.7	5.4	10.9	9.5	5.4	7.0	13.0	7.9	10.3
18	9.8	1.5	5.0	15.2	5.0	10.5	13.6	3.5	7.7	---	---	---
19	12.6	2.0	6.9	15.8	7.1	10.8	7.8	3.7	5.5	---	---	---
20	13.8	4.2	8.4	15.2	4.9	9.6	14.3	3.7	7.7	---	---	---
21	14.1	4.1	8.6	16.1	6.1	10.6	6.9	3.0	5.1	---	---	---
22	14.0	5.3	8.9	16.1	6.9	10.7	7.8	4.6	6.2	---	---	---
23	14.5	4.2	8.8	16.3	4.4	9.6	14.4	3.8	8.6	---	---	---
24	14.9	4.3	9.0	16.1	6.6	10.3	15.8	6.3	10.7	---	---	---
25	15.5	4.2	9.4	13.4	5.1	8.3	15.9	6.9	11.4	---	---	---
26	14.9	6.1	9.7	8.7	3.4	6.1	10.8	5.9	7.9	---	---	---
27	14.5	4.9	9.3	14.4	4.4	8.7	14.9	6.0	10.0	---	---	---
28	7.3	1.7	4.1	12.8	3.2	7.0	15.0	8.1	11.6	---	---	---
29	---	---	---	9.9	4.1	6.2	11.4	8.7	10.0	---	---	---
30	---	---	---	14.1	3.3	7.3	13.3	8.4	10.4	---	---	---
31	---	---	---	15.3	2.6	8.3	---	---	---	---	---	---
MONTH	15.5	.0	5.8	17.0	.0	8.2	19.8	1.9	9.5	---	---	---
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	17.6	12.5	14.4	25.3	14.6	19.1	24.3	18.0	21.2
2	---	---	---	17.5	12.2	14.8	26.9	15.2	20.6	26.6	18.2	21.3
3	---	---	---	17.0	13.7	15.1	26.6	15.5	20.3	24.9	18.1	21.1
4	---	---	---	15.4	12.0	13.9	26.7	15.5	20.0	24.3	18.7	21.4
5	17.6	14.5	16.2	20.2	11.5	15.7	27.0	16.5	20.8	26.4	18.1	21.5
6	18.5	11.6	14.8	22.1	13.6	17.8	26.0	16.0	20.9	26.4	16.4	19.9
7	17.5	11.1	14.2	22.5	15.0	18.7	27.8	16.6	21.4	18.2	15.2	16.6
8	14.2	12.2	12.8	22.4	15.9	19.1	27.3	16.5	21.5	19.7	14.4	16.3
9	17.4	10.7	13.7	22.6	16.3	19.1	25.9	16.8	21.1	19.9	15.1	16.6
10	14.0	11.2	12.6	22.7	15.8	19.1	28.9	16.9	22.4	18.8	14.0	15.6
11	18.0	11.0	14.2	22.5	16.7	19.7	29.6	17.8	22.3	18.3	13.5	16.0
12	20.2	11.9	15.9	22.3	17.6	20.0	29.2	18.1	21.9	22.7	14.3	17.8
13	20.1	12.9	16.5	25.0	17.9	20.5	27.4	17.6	21.9	22.8	13.4	17.6
14	20.6	13.4	16.6	23.7	15.5	18.7	22.8	17.5	19.5	20.7	13.7	17.0
15	18.9	13.5	16.0	23.0	15.8	18.8	27.1	15.1	20.5	22.5	13.0	17.3
16	19.1	13.1	15.9	24.0	16.2	19.4	26.9	15.8	21.0	22.9	13.3	17.5
17	16.5	13.5	14.8	22.8	16.8	18.8	27.6	16.3	21.5	23.0	13.3	17.6
18	20.1	12.8	16.1	19.4	16.0	17.3	28.6	17.0	21.9	19.8	13.6	16.5
19	21.8	13.5	17.5	20.2	15.6	17.9	21.1	17.9	19.5	16.2	13.3	14.8
20	22.2	14.1	18.0	21.3	15.5	18.4	20.9	19.2	20.0	17.8	10.6	14.1
21	21.9	14.2	17.9	20.5	15.7	17.8	21.0	19.9	20.4	10.6	8.5	9.4
22	22.2	14.2	17.9	23.7	14.8	18.5	21.1	20.5	20.8	17.0	7.9	11.7
23	21.2	14.5	16.7	20.0	16.3	18.0	21.1	20.4	20.8	17.6	9.8	12.9
24	18.5	13.2	15.7	20.8	16.2	18.4	21.1	20.5	20.8	12.5	10.0	11.3
25	20.3	13.2	16.6	22.6	17.3	19.8	21.4	19.7	20.5	17.8	8.1	12.3
26	21.7	13.3	17.5	23.6	18.5	21.0	20.8	19.7	20.2	18.6	9.4	13.3
27	19.2	14.9	17.0	23.9	18.9	21.4	20.6	20.0	20.3	19.6	10.6	14.5
28	20.7	12.7	17.0	25.3	19.8	22.4	27.7	20.1	22.8	18.4	11.8	14.7
29	14.1	12.9	13.6	25.7	21.2	23.5	25.8	17.0	21.3	16.1	11.5	13.4
30	13.7	12.6	13.2	25.1	21.5	23.4	27.0	17.1	21.3	18.4	11.0	13.9
31	---	---	---	25.9	16.8	21.0	25.0	17.8	21.0	---	---	---
MONTH	---	---	---	25.9	11.5	18.8	29.6	14.6	20.9	26.6	7.9	16.2

07106300 FOUNTAIN CREEK NEAR PINON, CO

LOCATION.--Lat 38°26'50", long 104°35'28", in NE¹/₄NE¹/₄ sec.31, T.18 S., R.64 W., Pueblo County, Hydrologic Unit 11020003, near left bank on downstream side of county road bridge, 1.2 mi northeast of Pinon, and 3.2 mi upstream from Steele Hollow Creek.

DRAINAGE AREA.--849 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1973 to current year.

REVISED RECORDS.--WDR CO-80-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,005 ft above sea level, from topographic map. Prior to Apr. 23, 1976, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges, May 17-18. Records fair. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions municipal use, diversions upstream from station for irrigation of about 10,000 acres and municipal use, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	117	112	126	132	139	114	343	1260	1110	124	55
2	506	113	113	131	131	138	114	313	969	1060	117	46
3	169	120	116	137	131	153	108	309	1580	612	111	51
4	826	140	117	125	131	172	100	323	1130	591	101	43
5	308	135	114	133	135	135	102	330	1140	514	125	44
6	159	143	99	156	144	136	101	760	801	374	88	47
7	114	142	95	146	140	163	101	438	753	342	69	81
8	119	128	116	152	138	139	96	418	885	336	58	84
9	113	108	111	150	149	135	100	373	1010	318	57	85
10	99	128	109	155	144	136	182	323	778	317	61	491
11	106	132	123	152	150	130	153	265	805	274	61	182
12	96	127	138	147	137	129	118	237	708	241	65	172
13	90	124	135	141	139	126	102	230	639	236	70	156
14	84	128	136	143	162	124	90	218	622	247	64	147
15	270	129	132	149	216	115	91	208	601	395	67	151
16	147	97	135	147	149	122	95	200	625	355	64	161
17	242	88	144	139	134	165	118	3500	621	348	60	142
18	178	84	149	136	133	135	195	1800	861	411	55	140
19	125	83	156	133	130	136	230	1040	545	328	658	164
20	112	99	153	142	125	128	208	1130	495	383	195	166
21	104	136	155	138	123	122	330	1320	461	330	139	182
22	113	115	152	135	114	114	316	1290	452	273	142	175
23	115	105	149	134	112	110	263	1330	501	261	234	169
24	120	131	146	139	129	112	258	1270	702	305	133	162
25	124	126	142	142	126	114	222	1060	663	226	206	167
26	123	121	134	141	123	119	376	1700	451	181	168	163
27	112	120	139	138	127	121	298	1640	458	192	125	160
28	126	115	135	130	131	129	251	1370	502	174	70	156
29	123	91	134	127	---	132	257	2160	1230	152	66	162
30	123	96	140	126	---	125	361	2470	935	147	64	164
31	135	---	136	131	---	115	---	1940	---	141	59	---
TOTAL	5243	3521	4065	4321	3835	4069	5450	30308	23183	11174	3676	4268
MEAN	169	117	131	139	137	131	182	978	773	360	119	142
MAX	826	143	156	156	216	172	376	3500	1580	1110	658	491
MIN	62	83	95	125	112	110	90	200	451	141	55	43
AC-FT	10400	6980	8060	8570	7610	8070	10810	60120	45980	22160	7290	8470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1995, BY WATER YEAR (WY)

MEAN	65.5	81.4	79.3	88.1	94.9	102	106	255	154	87.1	115	57.6
MAX	457	289	155	158	141	207	299	1349	773	365	385	205
(WY)	1985	1985	1985	1985	1985	1992	1985	1980	1995	1985	1982	1982
MIN	.81	5.77	30.0	19.0	35.2	20.0	3.36	.96	8.39	4.34	3.87	.000
(WY)	1976	1979	1977	1979	1978	1978	1975	1975	1978	1976	1974	1975

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1973 - 1995
ANNUAL TOTAL	54531.9	103113	
ANNUAL MEAN	149	283	106
HIGHEST ANNUAL MEAN			283
LOWEST ANNUAL MEAN			29.4
HIGHEST DAILY MEAN	2610	3500	4140
LOWEST DAILY MEAN	6.1	43	a .00
ANNUAL SEVEN-DAY MINIMUM	18	49	.00
INSTANTANEOUS PEAK FLOW		9910	b 10200
INSTANTANEOUS PEAK STAGE		5.67	7.05
ANNUAL RUNOFF (AC-FT)	108200	204500	76640
10 PERCENT EXCEEDS	229	660	203
50 PERCENT EXCEEDS	115	139	70
90 PERCENT EXCEEDS	32	95	1.2

a-No flow at times most years.
b-From rating curve extended above 7300 ft³/s.

ARKANSAS RIVER BASIN

07106300 FOUNTAIN CREEK NEAR PINON, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1976 to December 1983, December 1990 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, UM-MF (COLS./100 ML)	STREP-TOCOCCHI, FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
DEC 30...	1100	149	1090	7.9	3.5	10.0	13	140	310	84	25
MAR 24...	1115	122	1070	8.0	12.0	8.3	6.5	240	K56	80	25
JUN 23...	1045	510	673	8.2	18.0	7.3	5.7	>600	860	58	17
SEP 29...	0940	166	1050	8.3	12.5	8.5	6.3	420	>250	70	26

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
DEC 30...	162	280	52	1.9	194	0.09	6.8	0.79	1.3	1.0
MAR 24...	154	270	54	1.7	160	0.07	7.8	0.11	1.4	0.89
JUN 23...	109	180	25	2.2	562	<0.01	3.6	0.02	1.1	0.32
SEP 29...	168	280	45	1.8	175	<0.01	5.2	<0.015	1.1	0.40

DATE	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, HEXA-VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)
DEC 30...	<1	<1	4	<1	2	9	2	4100	22
MAR 24...	<1	<1	3	<1	<1	7	2	3600	11
JUN 23...	<1	<1	7	<1	<1	2	1	10000	14
SEP 29...	<1	<1	3	<1	<1	7	1	5000	20

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC 30...	7	<1	180	12	7	3	--	40	10
MAR 24...	7	<1	160	3	6	4	--	30	6
JUN 23...	16	<1	380	3	12	2	4	60	4
SEP 29...	7	<1	150	<10	6	2	5	40	<10

K - Based on non-ideal colony counts.

07106300 FOUNTAIN CREEK NEAR PINON, CO--Continued

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
OCT 1994					APR 1995				
03...	1505	148	860	18.0	13...	1150	113	1050	11.0
06...	1530	135	990	17.0	23...	1520	238	975	14.0
18...	1205	168	875	11.5	MAY				
21...	1105	98	1130	11.0	15...	1400	224	745	20.5
DEC					JUN				
07...	1315	101	1100	7.0	12...	1500	697	660	20.0
27...	1210	143	1320	5.0	JUL				
JAN 1995					06...	1345	326	704	22.5
12...	1515	146	1080	7.0	14...	1400	242	799	24.5
26...	1330	140	1040	4.5	AUG				
FEB					04...	1035	102	964	20.5
15...	1315	186	1280	4.5	16...	1335	64	1030	28.5
23...	1035	115	1100	7.0	21...	1215	148	910	24.5
MAR					30...	1655	66	1050	28.5
06...	1505	114	940	8.0	SEP				
10...	1245	145	1090	14.0	12...	1325	178	980	22.0
27...	1340	121	1050	14.0	28...	1250	164	1020	18.0

07106500 FOUNTAIN CREEK AT PUEBLO, CO

LOCATION.--Lat 38°17'16", long 104°36'02", in SE¹/4SW¹/4 sec.19, T.20 S., R.64 W., Pueblo County, Hydrologic Unit 11020003, on left bank at upstream side of bridge on U.S. Highway 50 at Pueblo and 2.6 mi upstream from mouth.

DRAINAGE AREA.--926 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1922 to September 1925, October 1940 to September 1965, February 1971 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WDR CO-79-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,705 ft above sea level, from topographic map. See WSP 1711 or 1731 for history of changes prior to Oct. 1, 1940, and WSP 1921 for changes prior to Sept. 30, 1965. Feb. 1, 1971 to Sept. 30, 1976, water-stage recorder at site 1.4 mi upstream at datum 4,725.30 ft above sea level (unadjusted).

REMARKS.--Estimated daily discharges: Nov. 5-7, Jan. 5 to Feb. 2. Records fair except those above 2,000 ft³/s, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions for municipal use, diversions for irrigation of about 14,000 acres upstream from station and municipal use, and return flow from irrigated areas.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1903, that of June 17, 1965. Flood of June 4, 1921, reached a discharge of 34,000 ft³/s, by slope-area measurement. Flood of May 30, 1935, reached a discharge of 35,000 ft³/s, by slope-area measurement.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	135	116	134	139	122	135	395	1670	974	131	77
2	585	125	106	122	140	157	135	335	1450	1470	126	68
3	205	138	110	125	137	139	127	300	2060	643	113	63
4	1300	153	115	126	139	177	115	323	1210	598	113	63
5	356	150	110	125	144	159	110	297	1570	583	141	52
6	220	145	106	125	153	150	108	825	968	514	103	47
7	158	145	106	126	144	196	107	490	836	468	100	71
8	155	144	121	127	142	157	106	517	788	423	82	115
9	156	126	124	130	150	154	120	398	952	389	69	117
10	141	141	121	140	160	147	207	341	771	384	73	466
11	129	153	116	144	154	136	201	302	743	331	70	260
12	111	158	132	143	166	136	156	277	684	294	76	209
13	103	157	134	142	182	131	133	273	664	269	83	183
14	106	143	139	142	170	144	135	258	656	258	74	168
15	272	154	142	141	255	125	120	247	654	609	76	181
16	250	139	126	135	169	125	126	240	661	468	76	174
17	295	116	135	130	152	180	135	3870	657	395	59	145
18	266	107	143	125	138	169	270	2470	714	488	45	142
19	150	117	144	122	137	146	316	1330	683	403	585	150
20	121	132	148	126	129	138	341	1550	568	457	269	152
21	109	166	137	128	128	135	442	1910	478	405	175	159
22	118	126	131	127	130	121	525	2040	451	345	149	181
23	118	111	141	126	103	100	314	1820	440	315	224	174
24	118	128	135	128	115	108	238	1960	735	370	155	172
25	110	141	136	131	117	125	215	1870	766	295	195	184
26	116	148	134	134	123	126	379	1960	728	227	177	184
27	110	138	131	135	123	133	367	1820	673	231	166	181
28	104	136	138	134	116	140	263	1350	653	208	128	176
29	122	109	141	131	---	163	271	1950	1190	181	98	178
30	118	91	137	135	---	157	418	2670	901	155	86	183
31	131	---	139	136	---	145	---	2430	---	161	77	---
TOTAL	6415	4072	3994	4075	4055	4441	6635	36818	25974	13311	4094	4675
MEAN	207	136	129	131	145	143	221	1188	866	429	132	156
MAX	1300	166	148	144	255	196	525	3870	2060	1470	585	466
MIN	62	91	106	122	103	100	106	240	440	155	45	47
AC-FT	12720	8080	7920	8080	8040	8810	13160	73030	51520	26400	8120	9270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1995, BY WATER YEAR (WY)

MEAN	45.9	57.9	57.3	59.9	65.6	62.7	74.9	176	123	70.3	109	40.4
MAX	513	303	193	185	174	217	564	1188	866	429	650	241
(WY)	1985	1985	1985	1985	1985	1992	1942	1995	1995	1995	1965	1982
MIN	.61	.90	1.10	1.90	1.40	1.00	1.10	.28	.71	.96	.71	.37
(WY)	1963	1955	1955	1954	1954	1954	1955	1950	1963	1964	1960	1978

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1922 - 1995	
ANNUAL TOTAL	62922.2		118559			
ANNUAL MEAN	172		325			
HIGHEST ANNUAL MEAN					80.3	1995
LOWEST ANNUAL MEAN					4.42	1953
HIGHEST DAILY MEAN	3820	Jun 3	3870	May 17	10000	Jun 18 1965
LOWEST DAILY MEAN	7.2	Jul 19	45	Aug 18	a.00	May 12 1923
ANNUAL SEVEN-DAY MINIMUM	15	Jul 17	63	Sep 1	b.00	Sep 9 1945
INSTANTANEOUS PEAK FLOW			11300	May 17	b ⁴ 7000	Jun 17 1965
INSTANTANEOUS PEAK STAGE			7.46	May 17	c ¹⁹ 19.00	Jun 17 1965
ANNUAL RUNOFF (AC-FT)	124800		235200		58190	
10 PERCENT EXCEEDS	264		696		161	
50 PERCENT EXCEEDS	130		145		30	
90 PERCENT EXCEEDS	38		108		1.0	

a-No flow at times many years.

b-Site and datum then in use, from rating curve extended above 400 ft³/s, on basis of contracted-opening measurement of peak flow.

c-From floodmarks.

07106500 FOUNTAIN CREEK AT PUEBLO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1981 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1985 to current year.
 WATER TEMPERATURE: December 1985 to current year.

INSTRUMENTATION.--Water-quality monitor since December 1985, with satellite telemetry.

REMARKS.--Records for daily water temperature and specific conductance are fair. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 3,460 microsiemens, July 7, 1989; minimum, 203 microsiemens, June 6, 1991.
 WATER TEMPERATURE: Maximum, 33.1°C, July 17, 1991; minimum, 0.0°C, many days during the winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,780 microsiemens, Aug. 19; minimum, 215 microsiemens, Oct. 2.
 WATER TEMPERATURE: Maximum, 30.6°C, Aug. 11; minimum, 0.0°C, many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, BIO-FECAL, 0.7 UM-MF (COLS./100 ML)
OCT								
14...	1310	110	1360	8.4	14.5	8.2	1.5	K200
DEC								
02...	1120	122	1240	8.3	4.5	10.4	3.3	60
30...	1300	144	1220	8.0	4.0	10.6	7.8	150
JAN								
20...	1200	124	1170	7.9	2.5	11.1	9.8	58
FEB								
24...	1200	113	1210	8.0	9.5	9.5	12	52
MAR								
24...	1230	144	1210	8.4	15.0	8.3	3.8	K19
APR								
21...	1215	477	1020	8.3	3.0	10.9	11	>1200
MAY								
26...	1300	2040	645	8.2	13.5	7.9	3.9	2300
JUN								
23...	1215	439	767	8.3	21.0	7.2	2.6	640
JUL								
28...	1030	205	961	8.4	21.0	7.4	1.6	740
AUG								
18...	1300	47	1320	8.4	28.5	6.7	0	K130
SEP								
29...	1045	190	1160	8.4	15.5	8.2	2.7	290

DATE	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)
OCT								
14...	210	145	<0.01	4.5	0.03	0.6	0.42	--
DEC								
02...	150	224	0.03	6.5	0.03	1.1	0.55	--
30...	280	186	0.06	7.1	0.13	1.5	0.93	--
JAN								
20...	110	292	0.04	7.2	0.33	1.5	1.0	--
FEB								
24...	98	274	0.02	7.3	0.03	1.2	0.98	--
MAR								
24...	50	136	<0.01	7.5	0.02	1.1	0.71	--
APR								
21...	>2000	1250	<0.01	5.6	0.08	1.3	0.40	26
MAY								
26...	K2100	1300	0.04	2.0	0.10	2.4	0.11	6
JUN								
23...	340	406	<0.01	3.5	0.02	1.0	0.29	8
JUL								
28...	360	226	<0.01	4.0	0.02	0.8	0.29	9
AUG								
18...	K73	36	<0.01	3.8	<0.015	0.3	0.27	23
SEP								
29...	>330	200	<0.01	5.1	<0.015	0.7	0.34	18

K-Based on non-ideal colony counts.

07106500 FOUNTAIN CREEK AT PUEBLO, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1360	1170	1250	1160	1100	1130	1230	---	---	1260	1140	1180
2	1260	215	---	1160	1110	1140	---	---	---	1230	1120	1170
3	489	229	372	1190	1030	1130	---	---	---	1210	1170	---
4	591	246	472	1150	1000	1050	---	---	---	1220	---	---
5	975	391	617	---	---	---	---	---	---	1290	1210	1220
6	1050	667	851	---	---	---	---	---	---	1230	1140	1200
7	1130	948	1030	---	---	---	1310	---	---	1190	1090	1140
8	1140	977	1050	1170	1130	1150	1330	1190	1240	1240	1160	1200
9	1140	918	1030	1240	1170	1200	---	---	---	1220	1140	1210
10	1190	1040	1130	1250	1130	1180	---	---	---	1200	1170	---
11	1230	1100	1180	1170	1120	1150	1310	1200	1220	1190	1150	---
12	1270	1130	1210	1180	1110	1150	1250	1150	1200	1210	1150	1190
13	1320	1190	1270	1190	1130	1160	1240	1170	1210	1230	1160	1200
14	1340	1190	1270	1200	1110	1150	1230	1170	1190	1230	1160	1190
15	1300	266	976	1170	1110	1130	1260	1180	1200	1230	1140	1190
16	---	---	---	1240	1170	1190	1250	1170	1190	1230	1140	1180
17	---	---	---	1280	1240	1260	1230	1170	1220	1220	1140	1200
18	---	---	---	1300	1250	1280	1240	1160	1200	1230	1160	1190
19	---	---	---	1320	1230	1290	1240	1160	1190	1230	1170	1190
20	1200	1080	1150	1510	1180	1280	1270	1170	1240	1230	1110	1170
21	1230	1120	1190	1300	1140	1240	1240	1180	1210	1220	1160	1190
22	1240	1100	1160	1290	1230	1250	1240	1180	1230	1260	1150	1190
23	1240	1100	1190	1310	1270	1290	1250	1170	1230	1240	1150	1180
24	1250	1090	1180	1330	1190	1250	1250	1170	1200	1270	1150	1160
25	1280	1100	1200	1240	1150	1210	1250	1180	1200	1220	1140	1160
26	1250	1100	1190	1210	1100	1180	1260	1190	1230	1220	1120	1170
27	---	---	---	---	---	---	1260	1170	1220	1190	1110	1170
28	1160	---	---	---	---	---	1250	1180	1240	1190	1130	1160
29	1180	1120	1150	---	---	---	1270	1190	1230	1220	1140	1180
30	1210	1130	1160	1280	1210	1220	1250	1200	1220	1220	1130	1160
31	1220	1060	1120	---	---	---	1250	1180	1190	1210	1120	1170
MONTH	---	---	---	---	---	---	---	---	---	1290	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1210	1120	1160	1190	1060	1150	1300	1200	1240	924	881	905
2	1200	1140	1170	1240	1130	1190	1270	1180	1230	959	879	906
3	1210	1140	1170	1310	1150	1240	1260	1170	1220	915	871	893
4	1210	1140	1170	1300	1160	1240	1270	1200	1240	875	824	842
5	1220	1140	1180	1240	1150	1190	1290	1210	1250	868	827	851
6	1220	1120	1170	1220	1110	1170	1280	1220	1250	860	---	---
7	1200	1140	1170	1180	1050	1120	1300	1230	1260	622	---	---
8	1210	1160	1190	1200	1150	1170	1310	1230	1270	642	---	---
9	1230	1130	1180	1220	1140	1180	1490	1250	1320	719	---	---
10	1240	1160	1200	1200	1150	1180	1450	945	1120	762	654	712
11	1210	1130	1180	1210	1160	1180	1220	1060	1120	840	693	747
12	1190	1120	1160	1220	1150	1190	1240	1160	1210	855	809	807
13	1240	1170	1180	1220	1140	1180	1240	1180	1210	855	794	813
14	1210	1150	1180	1210	1130	1170	---	---	---	805	738	783
15	1410	1110	1270	1210	1160	1180	---	---	---	816	783	795
16	1330	1090	1210	1210	1150	1190	---	---	---	819	713	781
17	1240	1150	1190	1230	997	1120	1650	1230	1330	836	334	533
18	1210	1120	1170	1210	1120	1150	1250	846	998	---	---	---
19	1200	1120	1160	1230	1140	1190	1170	775	959	---	---	---
20	1200	1100	1150	1250	1170	1200	1030	785	902	---	---	---
21	1190	1100	1140	1240	1170	1200	1250	505	902	---	---	---
22	1180	1110	1150	1250	1190	1230	---	---	---	---	---	---
23	1230	1140	1180	1260	1210	1230	---	---	---	---	---	---
24	1200	1120	1150	1270	1190	1230	1190	1120	1150	---	---	---
25	1190	1120	1150	1260	1200	1230	1220	1140	1180	---	---	---
26	1200	1120	1160	1260	1180	1220	1420	678	1070	---	---	---
27	1190	1100	1150	1250	1160	1200	1160	753	1020	---	---	---
28	1180	1130	1150	1430	1170	1240	1200	1160	1180	---	---	---
29	---	---	---	1310	1190	1230	1220	1110	1150	---	---	---
30	---	---	---	1300	1190	1240	1120	782	896	---	---	---
31	---	---	---	1290	1200	1250	---	---	---	---	---	---
MONTH	1410	1090	1170	1430	997	1200	---	---	---	---	---	---

07106500 FOUNTAIN CREEK AT PUEBLO, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	1070	1010	1020	1300	1240	1270
2	---	---	---	---	---	---	1130	1040	1080	1340	1290	1310
3	---	---	---	---	---	---	1150	1090	1130	1380	1310	1350
4	---	---	---	---	---	---	1160	1100	1130	1400	1310	1350
5	---	---	---	---	---	---	1150	998	1070	1460	1390	1420
6	---	---	---	---	---	---	1120	1060	1090	1480	1380	1450
7	---	---	---	826	---	---	1160	1050	1110	1380	1210	1320
8	---	---	---	834	766	810	1200	1120	1160	1470	1120	1170
9	---	---	---	852	780	819	1200	1150	1170	1390	1190	1260
10	---	---	---	836	778	816	1240	1170	1200	1260	589	816
11	---	---	---	878	664	827	1250	1190	1230	1040	884	978
12	737	---	---	914	830	879	1230	1150	1200	1110	1020	1070
13	728	559	657	968	874	913	1210	1140	1170	1160	1100	1130
14	691	566	643	992	680	899	1170	1150	1160	1190	1140	1170
15	---	---	---	942	234	772	1200	1150	1180	1190	1160	1170
16	760	708	738	906	570	705	1230	1160	1200	1190	1140	1170
17	854	687	726	967	680	724	1280	1220	1250	1240	1160	1200
18	797	---	---	738	543	640	1320	1260	1300	1240	1170	1200
19	---	---	---	735	658	695	1780	508	972	1220	1110	1160
20	---	---	---	798	676	698	---	---	---	1150	1100	1130
21	---	---	---	831	721	758	---	---	---	1230	1130	1160
22	---	---	---	827	706	771	---	---	---	1160	1100	1120
23	---	---	---	880	784	822	---	---	---	1170	1130	1150
24	---	---	---	844	798	822	---	---	---	1170	1140	1150
25	---	---	---	949	772	880	---	---	---	1170	1130	1150
26	---	---	---	976	891	930	---	---	---	1160	1080	1120
27	---	---	---	982	928	958	---	---	---	1100	1060	1080
28	---	---	---	987	942	957	---	---	---	1140	993	1070
29	---	---	---	1010	963	982	1200	---	---	1060	924	974
30	---	---	---	1020	966	1000	1230	1150	1190	965	923	944
31	---	---	---	1030	966	1010	1300	1210	1250	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	1480	589	1170

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.4	14.2	17.2	12.1	6.5	8.9	9.7	2.1	5.3	2.5	.5	.8
2	14.2	8.2	12.1	11.4	6.2	8.5	8.5	1.8	4.7	1.3	.5	.6
3	19.1	10.3	14.2	8.1	5.6	6.9	8.3	1.4	4.7	1.8	.5	.7
4	16.1	7.9	14.1	10.7	5.3	7.2	9.5	3.5	6.1	.5	.5	.5
5	18.5	14.3	15.9	13.1	5.7	8.8	5.2	4.1	4.6	.6	.5	.5
6	17.1	10.6	13.5	11.4	5.4	8.6	5.4	3.0	4.0	4.2	.5	1.5
7	17.3	10.4	13.3	14.2	5.9	10.0	7.7	1.8	4.4	4.3	.5	1.8
8	18.2	11.1	13.7	10.0	6.6	8.0	3.5	.5	1.3	7.3	1.0	3.6
9	18.5	8.6	13.0	12.7	6.0	8.5	2.3	.5	.8	7.0	.7	3.7
10	19.3	9.1	13.6	11.7	3.7	7.5	1.2	.5	.5	8.5	1.6	4.4
11	19.9	8.9	13.9	11.2	4.5	8.1	2.9	.5	1.1	9.0	1.5	4.6
12	19.6	9.4	13.9	13.3	6.8	9.0	2.7	.5	1.2	6.1	1.8	3.5
13	19.0	9.3	13.5	11.0	4.8	6.9	4.9	.5	1.9	6.9	.2	3.0
14	15.4	8.6	11.6	6.2	3.9	4.8	5.2	.5	1.9	6.9	.1	3.1
15	16.7	9.8	12.2	9.3	3.5	5.5	3.8	.5	1.4	7.1	1.0	3.8
16	16.6	8.8	12.3	8.7	2.4	5.2	4.5	.5	1.8	7.0	2.0	3.8
17	16.9	10.3	12.6	7.9	2.1	5.2	6.1	.5	2.6	2.6	.0	1.0
18	15.8	6.9	11.1	7.9	.1	3.4	6.4	.5	2.8	4.4	.0	1.4
19	17.7	9.0	12.5	7.7	.1	3.4	6.1	.6	2.6	4.7	.0	1.5
20	17.0	7.3	11.7	7.7	.1	3.3	4.9	.5	1.9	4.1	.0	1.5
21	17.1	6.6	11.5	5.7	2.1	3.8	6.2	.5	2.6	4.0	.0	1.7
22	16.0	7.6	11.3	5.3	1.4	3.8	6.8	.5	2.9	3.8	.0	1.1
23	16.4	6.9	11.3	7.2	.2	2.9	5.1	.5	2.7	2.8	.0	.7
24	13.6	7.4	10.1	7.0	.3	3.0	7.7	1.8	4.2	4.8	.0	1.6
25	14.8	5.5	9.8	7.7	.8	3.9	7.8	.6	3.9	4.5	.0	1.6
26	15.7	5.9	10.4	8.2	1.2	4.3	8.4	1.8	4.4	5.4	.3	2.9
27	---	---	---	5.2	.5	2.3	7.2	.5	3.5	6.5	3.2	4.5
28	14.7	---	---	3.1	.5	1.1	6.5	.5	3.0	6.6	2.7	4.3
29	14.0	7.2	10.1	3.5	.6	1.1	4.6	.5	2.3	5.3	1.1	3.2
30	9.9	6.0	7.9	8.2	.6	3.6	3.5	2.0	2.7	6.4	.0	2.2
31	12.9	5.3	8.9	---	---	---	2.5	.5	1.2	8.0	.2	3.9
MONTH	---	---	---	14.2	.1	5.6	9.7	.5	2.9	9.0	.0	2.4

07106500 FOUNTAIN CREEK AT PUEBLO, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.6	1.9	5.1	3.5	.0	1.0	16.7	3.7	9.6	15.7	7.6	11.3
2	10.4	2.8	5.8	4.8	.0	1.3	16.6	4.4	9.9	16.6	8.0	12.1
3	9.0	1.3	4.6	8.4	.0	3.2	17.8	5.8	11.2	17.6	9.0	12.8
4	10.2	1.1	5.1	11.9	2.0	6.3	19.1	5.4	11.6	18.2	8.2	13.0
5	7.8	1.2	4.2	12.3	4.3	7.5	19.0	6.0	12.1	15.7	9.9	12.4
6	9.4	.5	4.6	8.0	3.2	5.5	19.4	6.4	12.5	13.9	8.4	11.4
7	7.1	2.1	4.0	10.2	1.6	5.0	20.0	7.3	12.6	15.7	9.7	12.2
8	6.6	.4	3.4	7.3	.4	4.0	21.2	7.7	13.3	13.5	9.4	11.3
9	8.9	.5	4.2	13.4	.8	6.6	11.2	2.9	7.1	16.1	7.8	11.6
10	8.3	.7	3.7	16.0	4.3	9.6	9.0	1.7	4.8	18.6	8.3	13.0
11	3.6	.0	1.0	14.9	6.0	10.2	12.4	1.7	6.5	20.4	10.8	15.3
12	1.9	.0	.3	13.9	6.1	9.5	16.4	3.1	9.1	19.4	10.7	14.5
13	2.6	.0	.5	15.5	3.7	9.1	15.9	5.7	10.4	18.7	8.6	13.6
14	6.0	.0	2.2	15.8	4.1	9.5	---	---	---	20.0	10.0	14.6
15	6.2	.3	2.7	16.2	4.6	10.0	---	---	---	23.5	11.2	16.6
16	7.3	.0	2.7	16.7	5.7	10.6	---	---	---	22.0	12.4	16.2
17	7.3	.0	2.8	15.5	6.8	10.9	13.4	4.9	6.8	14.2	7.7	10.5
18	10.8	.7	4.6	16.8	6.1	11.1	13.9	2.9	7.9	---	---	---
19	10.8	.8	5.5	16.3	6.3	10.6	8.6	4.5	5.8	---	---	---
20	13.0	3.1	7.4	15.4	4.2	9.4	14.7	3.7	8.2	---	---	---
21	12.8	3.0	7.5	17.2	5.6	10.9	8.8	4.4	5.7	---	---	---
22	13.0	4.1	8.0	14.9	6.9	10.2	7.2	3.8	5.4	---	---	---
23	13.6	3.2	7.8	16.0	3.7	9.1	12.5	3.2	7.5	---	---	---
24	13.9	3.4	8.2	16.2	6.5	10.2	16.8	6.6	10.8	---	---	---
25	14.3	3.4	8.6	13.2	5.4	8.6	17.4	7.8	11.9	---	---	---
26	14.7	5.4	9.4	8.7	3.9	6.5	11.5	5.7	8.7	---	---	---
27	14.4	4.5	8.7	14.1	2.8	7.9	15.6	6.2	10.6	---	---	---
28	6.6	1.4	3.6	10.4	2.2	6.0	16.9	9.0	12.7	---	---	---
29	---	---	---	7.8	3.9	5.5	13.6	9.5	11.4	---	---	---
30	---	---	---	9.5	3.6	6.1	15.1	9.1	11.5	---	---	---
31	---	---	---	14.7	2.2	8.0	---	---	---	---	---	---
MONTH	14.7	.0	4.9	17.2	.0	7.7	---	---	---	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	---	---	---	29.4	17.9	22.7
2	---	---	---	---	---	---	---	---	---	30.1	17.2	21.9
3	17.1	12.6	14.9	---	---	---	---	---	---	29.7	17.3	22.1
4	20.0	10.9	15.6	---	---	---	27.9	16.5	20.9	28.8	17.5	22.2
5	20.0	12.0	16.4	---	---	---	27.6	16.1	21.1	29.1	17.2	22.1
6	21.5	14.9	18.0	---	---	---	29.1	16.2	22.3	28.7	16.2	20.5
7	21.1	14.3	17.4	---	---	---	29.9	16.9	22.4	19.2	16.3	17.9
8	17.4	13.4	15.5	---	---	---	28.4	17.2	22.4	23.2	15.4	18.5
9	19.4	12.9	15.8	---	---	---	23.5	18.2	20.4	21.2	16.8	18.3
10	17.6	14.0	15.4	---	---	---	29.0	17.1	21.5	21.0	15.8	17.9
11	20.9	13.2	16.7	---	---	---	30.6	18.2	22.8	22.3	14.6	18.1
12	22.5	14.6	17.7	---	---	---	30.0	18.9	23.2	24.2	13.8	18.4
13	22.4	13.0	17.5	---	---	---	29.1	18.5	23.2	25.0	14.0	19.0
14	19.8	9.8	15.7	---	---	---	26.4	18.4	20.9	25.1	14.5	19.3
15	19.1	12.0	15.9	---	---	---	29.4	16.4	21.9	24.3	13.8	18.5
16	17.4	11.2	14.4	---	---	---	29.1	16.7	22.2	24.6	12.2	18.7
17	17.3	11.5	14.2	---	---	---	29.5	17.4	22.8	25.2	16.5	20.2
18	21.3	11.6	17.3	---	---	---	30.3	18.3	23.0	21.4	15.5	18.8
19	24.8	16.5	19.7	---	---	---	22.9	17.7	20.3	18.9	14.4	16.8
20	24.9	16.0	19.3	---	---	---	27.1	18.1	22.0	21.4	11.0	15.5
21	18.9	10.8	15.6	---	---	---	29.1	18.4	22.9	12.3	9.3	10.3
22	21.5	12.2	16.5	---	---	---	28.6	19.0	22.9	17.9	7.6	12.1
23	20.4	9.3	15.4	---	---	---	27.4	18.4	22.4	18.9	9.3	13.3
24	21.4	10.4	16.5	---	---	---	30.0	18.7	23.2	13.4	11.0	12.1
25	21.8	8.7	15.8	---	---	---	26.7	19.2	21.9	18.7	8.0	12.9
26	22.2	14.3	18.4	---	---	---	28.1	18.3	22.4	19.3	9.8	14.1
27	24.8	15.6	19.6	---	---	---	27.7	18.3	22.2	21.5	11.1	15.8
28	---	---	---	---	---	---	29.1	18.2	22.8	18.3	12.6	15.2
29	---	---	---	---	---	---	30.1	18.1	23.4	16.9	12.0	14.1
30	---	---	---	---	---	---	28.4	18.3	22.7	20.1	11.3	14.8
31	---	---	---	---	---	---	29.7	17.7	22.7	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	30.1	7.6	17.4

07108900 ST. CHARLES RIVER AT VINELAND, CO

LOCATION.--Lat 38°14'44", long 104°29'09", in NE¹/₄SW¹/₄ sec.6, T.21 S., R.63 W., Pueblo County, Hydrologic Unit 11020002, on right bank at right downstream end of downstream bridge on U.S. Highway 50C, 1.6 mi west of Vineland, and 3.0 mi upstream from mouth.

DRAINAGE AREA.--474 mi².

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

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,581.58 ft above sea level, (Colorado Division of Highways benchmark).

REMARKS.--Estimated daily discharges: Dec 9-10, Jan 4-5, 7, 8, 23, 24, Feb 13-14, and May 3-17. Records fair except those for Aug 31 to Sept 8, Sept. 10-14, 18-26, estimated discharges, and those above 1,500 ft³/s, which are poor. Natural flow of stream affected by diversions upstream from station for irrigation of about 8,500 acres, and for industrial uses, and return flow from land irrigated by Bessemer Ditch. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1901, 56,000 ft³/s, at site 5.0 mi downstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	8.1	9.4	9.5	8.3	6.2	8.6	186	336	216	31	10
2	8.9	8.2	9.2	8.8	8.6	8.2	9.0	192	365	272	26	11
3	8.2	9.1	9.2	8.2	8.4	8.5	9.5	200	401	198	24	11
4	8.1	9.5	9.0	8.5	8.3	7.6	9.9	190	371	202	23	11
5	8.7	8.8	8.8	9.0	8.0	5.8	9.6	184	321	201	22	13
6	7.9	8.9	9.5	9.2	8.3	6.0	9.9	203	322	183	22	11
7	7.4	10	8.9	9.0	8.4	7.9	11	181	325	155	16	11
8	8.2	9.7	8.6	9.2	8.4	6.8	10	153	312	138	15	11
9	8.6	9.8	8.7	9.5	8.4	6.3	9.1	133	325	116	15	17
10	9.7	10	8.8	8.9	8.6	6.7	12	118	288	103	17	15
11	9.0	10	8.7	9.0	8.0	6.0	14	118	262	99	15	15
12	8.7	10	8.6	8.5	8.0	6.2	13	116	254	49	21	14
13	8.1	10	9.6	8.4	8.0	5.1	15	118	246	37	15	14
14	7.9	11	9.0	8.3	8.0	5.8	16	114	237	34	16	15
15	9.0	12	8.6	8.2	8.0	9.2	15	111	224	27	15	14
16	9.4	9.9	8.9	8.0	8.5	5.2	17	121	207	24	12	15
17	11	8.8	7.9	7.5	8.1	5.3	16	800	197	24	11	13
18	9.1	8.8	8.0	6.6	8.2	5.2	48	683	222	152	13	13
19	7.7	8.4	8.5	7.7	7.5	5.4	57	599	208	242	68	12
20	6.7	11	7.9	7.3	7.1	6.2	67	606	184	227	28	12
21	6.1	10	8.0	7.6	7.3	6.1	91	639	171	97	18	12
22	7.7	10	8.7	7.7	6.7	7.5	112	595	155	80	20	12
23	7.2	10	9.0	7.7	6.3	5.8	92	483	143	72	20	12
24	6.8	9.6	9.1	7.7	6.3	5.9	85	472	212	72	19	12
25	7.6	9.3	8.2	7.6	6.4	6.2	89	519	159	67	15	14
26	8.3	9.9	8.2	8.0	6.4	6.9	115	598	150	52	22	14
27	8.4	9.8	8.4	8.5	6.2	6.4	158	287	127	47	16	14
28	8.3	9.5	9.0	8.3	6.3	7.4	154	204	115	46	11	14
29	8.0	9.1	8.7	8.4	---	8.5	172	179	88	41	11	10
30	7.8	9.1	9.3	8.1	---	8.8	173	363	183	38	10	12
31	8.1	---	9.5	8.3	---	8.8	---	358	---	37	10	---
TOTAL	254.7	288.3	271.9	257.2	215.0	207.9	1617.6	9823	7110	3348	597	384
MEAN	8.22	9.61	8.77	8.30	7.68	6.71	53.9	317	237	108	19.3	12.8
MAX	11	12	9.6	9.5	8.6	9.2	173	800	401	272	68	17
MIN	6.1	8.1	7.9	6.6	6.2	5.1	8.6	111	88	24	10	10
AC-FT	505	572	539	510	426	412	3210	19480	14100	6640	1180	762

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1995, BY WATER YEAR (WY)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	13.3	13.8	12.3	12.2	12.8	17.7	64.0	161	93.2	37.9	49.6	20.9					
MAX	39.5	31.8	22.4	16.6	22.5	45.3	306	484	358	108	207	120					
(WY)	1983	1983	1983	1984	1987	1987	1987	1980	1983	1995	1982	1982					
MIN	3.50	5.59	6.81	6.75	7.68	6.71	5.02	6.06	8.79	7.60	10.2	6.36					
(WY)	1979	1979	1981	1981	1995	1995	1981	1991	1990	1981	1989	1980					

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1979 - 1995

ANNUAL TOTAL	20051.7	24374.6	
ANNUAL MEAN	54.9	66.8	42.5
HIGHEST ANNUAL MEAN			88.4
LOWEST ANNUAL MEAN			9.52
HIGHEST DAILY MEAN	987	800	1550
LOWEST DAILY MEAN	4.3	5.1	.25
ANNUAL SEVEN-DAY MINIMUM	4.7	5.8	2.7
INSTANTANEOUS PEAK FLOW		^a 2330	^b 7560
INSTANTANEOUS PEAK STAGE		8.62	12.70
ANNUAL RUNOFF (AC-FT)	39770	48350	30800
10 PERCENT EXCEEDS	165	205	99
50 PERCENT EXCEEDS	10	10	13
90 PERCENT EXCEEDS	7.7	7.4	6.3

a-From rating curve extended above 811 ft³/s.
b-From rating curve extended above 1800 ft³/s.

07109500 ARKANSAS RIVER NEAR AVONDALE, CO

LOCATION.--Lat 38°14'53", long 104°23'55", in NE¹/4SW¹/4 sec.1, T.21 S., R.63 W., Pueblo County, Hydrologic Unit 11020002, on right bank 15 ft downstream from bridge on Sixmile Road, 0.3 mi upstream from Sixmile Creek, and 2.6 mi west of Avondale.

DRAINAGE AREA.--6,327 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1939 to September 1951, February 1965 to current year. Statistical summary computed for 1975 to current year.

REVISED RECORDS.--WSP 1087: 1942. WSP 1311: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,509.53 ft above sea level. Prior to January 21, 1965, at site 550 ft downstream at datum 1.37 ft lower. January 21, 1965 to September 30, 1991, at datum 1.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation of about 123,000 acres and municipal use, and return flow from irrigated areas. Flow partly regulated by Pueblo Reservoir (station 07099350) since Jan. 9, 1974.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	621	633	605	324	298	495	655	1340	3970	3880	2370	1300
2	833	616	620	316	294	495	654	1320	4040	4690	2800	1140
3	525	616	619	322	278	455	636	1310	4470	5520	2720	1100
4	981	664	618	332	281	479	624	1330	3620	5490	2450	1060
5	1030	685	617	350	273	467	618	1320	3890	5720	1870	1030
6	873	676	615	322	272	460	618	1730	3790	5550	1790	1040
7	689	679	605	330	274	449	638	1550	4250	4270	1650	1090
8	593	678	605	327	280	419	656	1470	4630	3970	1440	1080
9	596	665	615	341	283	425	656	1360	5190	3970	1550	1180
10	618	662	614	321	285	492	759	1210	5160	4430	1620	1370
11	618	669	613	309	283	419	785	1070	4920	5150	1450	1410
12	590	633	622	301	288	402	801	1070	4510	5010	1450	1580
13	576	623	627	291	275	409	689	1040	4150	5130	1460	1310
14	573	624	623	284	277	405	642	995	4150	5270	1460	1150
15	622	434	625	286	343	423	647	1210	4490	5290	1530	1080
16	783	364	621	288	316	488	704	1230	4900	5590	1570	1030
17	718	325	620	293	300	500	738	3120	5540	4770	1560	910
18	817	308	624	285	338	475	854	5300	5840	5230	1580	862
19	725	298	628	282	339	489	957	5580	5700	5000	2520	867
20	746	342	623	282	335	536	1010	4470	5630	4580	1970	889
21	728	365	623	282	336	563	1170	3210	5770	4650	1600	902
22	614	344	571	280	335	544	1450	3090	5990	5040	1500	860
23	599	317	363	282	356	543	1320	3120	6020	4870	1650	802
24	599	316	343	289	384	543	1290	3220	5790	4130	1880	738
25	638	329	337	294	401	552	1150	3540	5620	3480	2090	712
26	649	332	331	294	399	551	1230	4340	5510	3030	2300	691
27	647	329	334	297	395	526	1230	4370	5770	2920	2470	698
28	634	318	340	294	449	601	1140	3760	5990	2840	2260	720
29	646	519	339	282	---	607	1190	3450	4540	2810	2020	760
30	618	591	339	280	---	648	1330	3990	3560	2780	1840	764
31	634	---	338	294	---	646	---	3990	---	2340	1570	---
TOTAL	21133	14954	16617	9354	8967	15506	26841	79105	147400	137400	57990	30125
MEAN	682	498	536	302	320	500	895	2552	4913	4432	1871	1004
MAX	1030	685	628	350	449	648	1450	5580	6020	5720	2800	1580
MIN	525	298	331	280	272	402	618	995	3560	2340	1440	691
AC-FT	41920	29660	32960	18550	17790	30760	53240	156900	292400	272500	115000	59750

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	522	450	342	377	423	503	804	1599	2725	1971	1325	638										
MAX	1631	985	718	770	1103	994	1884	4170	4913	4432	3210	1511										
(WY)	1985	1985	1987	1985	1985	1985	1987	1980	1995	1995	1984	1982										
MIN	187	170	197	190	223	219	220	517	638	562	423	200										
(WY)	1979	1979	1979	1979	1979	1978	1978	1977	1977	1977	1977	1977										

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1975 - 1995	
ANNUAL TOTAL	382542		565392			
ANNUAL MEAN	1048		1549		a ₉₇₅	
HIGHEST ANNUAL MEAN					1626	
LOWEST ANNUAL MEAN					411	
HIGHEST DAILY MEAN	6930	Jun 3	6020	Jun 23	b ₆₉₃₀	Jun 3 1994
LOWEST DAILY MEAN	260	Jan 9	272	Feb 6	c ₉₀	Nov 19 1978
ANNUAL SEVEN-DAY MINIMUM	264	Jan 7	277	Feb 3	d ₁₁₈	Nov 16 1978
INSTANTANEOUS PEAK FLOW			6700		e _{7.05}	May 18
INSTANTANEOUS PEAK STAGE					8.93	
ANNUAL RUNOFF (AC-FT)	758800		1121000		706600	
10 PERCENT EXCEEDS	2620		4600		2300	
50 PERCENT EXCEEDS	649		689		574	
90 PERCENT EXCEEDS	329		305		265	

a-Average discharge for 20 years (water years 1940-51, 1966-73), 867 ft³/s; 628100 acre-ft/yr, prior to completion of Pueblo Reservoir.

b-Maximum daily discharge for period of record, 12100 ft³/s, Apr 24, 1942.

c-Minimum daily discharge for period of record, 50 ft³/s, Apr 2, 1940.

d-Maximum discharge and stage for period of record, about 50000 ft³/s, Jun 18, 1965, gage height, 9.77 ft, from rating curve extended above 6700 ft³/s, on basis of records for station near Pueblo and indirect measurements of peak flow on Fountain Creek at Pueblo, Chico Creek near North Avondale, and Arkansas River near North Avondale.

e-Maximum height 7.19 ft, Jul 16.

07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April to October 1976, April 1979 to September 1980, December 1985 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1979 to September 1980, December 1985 to current year.
 WATER TEMPERATURE: July 1979 to September 1980, December 1985 to current year.
 pH: July 1979 to September 1980, August 1988 to current year.
 DISSOLVED OXYGEN: July 1979 to September 1980, August 1988 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Records for daily specific conductance are good except Oct. 2, 6, Nov. 18-30, Jan. 14-27, Feb. 10-11, 14-15, Mar. 9-10, 12, May 17, June 7, 15, July 25, and Aug. 17, which are poor. Records for water temperature are good except Sept. 20-30, which are fair. Records for pH are fair except Oct. 5, 7, March 9-10, July 16-18, 25, 31, and August 29, which are poor. Records for dissolved oxygen are fair except Nov. 10-30, Dec. 20-29, Jan 24-27, Feb 9 to Mar. 21, Mar. 26-29, June 20, 22, July 31, and Sept 27 which are poor. Daily data that are not published are either missing or of unacceptable quality. Water-quality data prior to December 1985 are published in other reports.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,380 microsiemens, Jan.24, 25, 1980; minimum, 246 microsiemens, June 16, 1980.
 WATER TEMPERATURE: Maximum, 31.5°C, Aug. 6, 1980; minimum, 0.0°C, many days during winters.
 pH: Maximum, 9.1 units, Dec. 3, 1989; minimum, 7.2 units, May 17, July 14, 1992, Aug. 2, 4, 1995.
 DISSOLVED OXYGEN: Maximum, 13.6 mg/L, Dec. 22, 1993; minimum, 2.6 mg/L, July 14, 1992.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,260 microsiemens, Feb. 15; minimum, 345 microsiemens, July 23.
 WATER TEMPERATURE: Maximum, 24.1°C, Sept. 5; minimum, 0.0°C, many days during winter.
 pH: Maximum, 8.8 units, March 15-17, April 6-8, August 11-13, Sept. 24, 27, 30; minimum, 7.2 units, August 2, 4.
 DISSOLVED OXYGEN: Maximum, 11.7 mg/L, Dec. 21; minimum, 4.8 mg/L, March 9, 18.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	687	637	669	506	485	495	860	792	828	1100	1040	1070
2	680	654	670	513	494	503	796	736	754	1070	1010	1040
3	---	---	---	516	499	508	756	726	739	1070	1030	1050
4	---	---	---	522	498	509	750	716	736	1090	958	1020
5	---	---	---	523	500	510	749	715	735	1130	995	1050
6	914	697	805	521	500	509	753	721	739	1090	1040	1060
7	898	699	821	526	503	515	748	720	736	1080	952	1040
8	904	849	879	527	510	520	746	721	737	1090	1050	1070
9	850	744	793	534	514	525	747	720	735	1080	1020	1060
10	744	711	727	542	518	529	748	721	738	1100	1040	1070
11	726	672	694	551	528	538	746	715	731	1100	1070	1090
12	678	631	656	565	542	552	741	716	727	1090	1060	1080
13	633	534	582	570	549	561	733	711	723	1100	1060	1080
14	540	509	524	576	551	564	729	708	721	1080	1050	1070
15	529	492	509	746	565	659	730	709	722	1080	1040	1070
16	529	451	474	902	743	818	732	702	719	1100	1060	1080
17	511	472	492	1030	897	962	724	699	712	1090	1070	1080
18	501	459	472	1060	1020	1040	722	697	711	1100	1070	1090
19	483	462	472	1060	1040	1050	720	664	694	1110	1070	1100
20	472	454	463	1060	1030	1040	702	681	692	1120	1080	1110
21	477	452	462	1060	1030	1050	703	675	691	1120	1090	1110
22	500	470	485	1070	1050	1060	845	692	731	1130	1100	1110
23	499	482	489	1070	1040	1060	1020	845	944	1130	1090	1120
24	498	478	487	1070	1040	1060	1110	1020	1060	1140	1100	1120
25	493	472	480	1070	1040	1060	1110	1080	1100	1140	1100	1120
26	487	466	475	1080	1040	1060	1130	1090	1100	1140	1110	1120
27	485	467	475	1080	1060	1070	1130	1080	1100	1140	1110	1130
28	493	467	477	1080	1050	1070	1110	1070	1090	1150	1110	1130
29	488	470	480	1070	864	960	1110	1070	1090	1150	1110	1130
30	493	474	484	885	850	868	1100	1070	1080	1130	1090	1110
31	500	482	491	---	---	---	1100	1060	1080	1100	1070	1080
MONTH	---	---	---	1080	485	774	1130	664	829	1150	952	1090

07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1090	1020	1060	848	818	833	890	850	867	736	694	717
2	1130	1060	1090	874	813	833	882	827	859	725	684	702
3	1130	1090	1120	899	859	880	883	836	860	715	682	699
4	1120	1080	1100	924	882	901	882	828	857	705	676	694
5	1110	1080	1100	920	870	890	877	827	854	711	683	698
6	1120	1070	1100	886	848	870	885	832	861	743	620	666
7	1110	1080	1100	922	886	911	871	813	838	694	639	667
8	1110	1070	1090	921	901	912	846	793	820	709	667	685
9	1110	1060	1090	976	897	927	827	785	810	730	681	703
10	1100	1040	1080	986	865	902	866	800	825	758	709	729
11	1100	1000	1050	998	958	981	827	780	800	776	736	754
12	---	---	---	1010	976	996	813	766	786	771	743	757
13	---	---	---	1020	976	1000	839	777	813	785	732	758
14	1130	1020	1090	1030	994	1020	848	803	828	780	742	763
15	1260	1050	1120	1090	962	1010	852	794	827	766	694	717
16	1210	1030	1130	1010	920	940	824	771	801	714	688	703
17	1070	1040	1060	981	922	950	819	766	791	796	656	691
18	1060	985	1010	993	955	969	858	747	823	---	---	---
19	1010	976	997	1000	910	948	829	747	769	658	592	616
20	1000	971	990	935	884	908	783	735	756	628	577	598
21	1000	960	984	898	860	882	766	722	745	610	583	598
22	995	967	984	922	843	887	756	694	727	630	572	603
23	980	926	955	901	823	852	776	736	754	601	583	593
24	951	902	924	850	809	829	794	727	755	603	583	593
25	923	883	904	844	807	826	813	764	785	611	593	593
26	920	884	904	861	817	838	846	749	783	604	571	584
27	921	882	905	883	836	855	793	709	749	643	589	615
28	913	838	869	901	802	839	792	733	763	638	606	620
29	---	---	---	937	839	884	769	723	741	676	614	641
30	---	---	---	899	870	885	757	701	721	643	598	624
31	---	---	---	899	863	883	---	---	---	680	634	660
MONTH	---	---	---	1090	802	905	890	694	799	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	638	598	625	517	483	504	406	350	383	496	456	469
2	615	598	606	599	431	488	400	387	395	508	480	495
3	659	595	621	438	423	429	395	384	389	527	471	492
4	660	629	642	446	417	431	441	383	397	528	498	513
5	665	593	617	434	416	424	---	---	---	521	494	505
6	616	583	603	446	411	424	---	---	---	504	482	494
7	593	564	582	451	430	443	---	---	---	517	482	494
8	---	---	---	452	433	439	---	---	---	575	516	550
9	---	---	---	443	423	432	---	---	---	693	553	616
10	---	---	---	439	411	423	---	---	---	730	522	577
11	---	---	---	424	404	420	---	---	---	627	529	577
12	---	---	---	434	405	418	---	---	---	553	481	508
13	---	---	---	492	395	439	---	---	---	556	503	532
14	---	---	---	486	454	466	---	---	---	573	535	552
15	575	536	548	463	440	451	---	---	---	622	557	580
16	556	504	542	539	414	453	---	---	---	617	589	601
17	545	532	535	433	391	413	414	404	409	664	602	639
18	559	532	541	434	368	394	415	399	407	669	628	648
19	540	520	529	409	369	385	---	---	---	674	635	656
20	520	498	508	425	365	392	---	---	---	676	646	663
21	492	463	478	382	356	371	---	---	---	708	641	672
22	485	457	470	374	353	365	---	---	---	754	697	719
23	477	454	463	369	345	356	---	---	---	786	723	748
24	522	448	475	394	364	377	---	---	---	805	754	776
25	487	434	465	390	374	381	---	---	---	852	788	810
26	466	429	453	---	---	---	---	---	---	845	817	831
27	454	417	434	---	---	---	---	---	---	842	824	834
28	533	416	436	---	---	---	---	---	---	836	795	821
29	595	487	530	---	---	---	---	---	---	813	781	794
30	609	488	524	---	---	---	432	398	411	822	792	807
31	---	---	---	393	370	379	458	416	432	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	852	456	632

07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.7	8.1	8.3	8.7	8.3	8.5	8.4	8.2	8.3	8.4	8.2	8.3
2	8.3	7.8	8.1	8.6	8.3	8.4	8.4	8.2	8.3	8.4	8.2	8.3
3	8.2	7.9	8.1	8.5	8.2	8.4	8.4	8.2	8.3	8.4	8.2	8.3
4	8.2	7.8	8.0	8.6	8.2	8.4	8.5	8.2	8.3	8.4	8.2	8.3
5	8.1	7.9	7.9	8.6	8.3	8.5	8.4	8.2	8.3	8.4	8.2	8.3
6	---	---	---	8.6	8.3	8.5	8.4	8.2	8.3	8.4	8.2	8.3
7	8.4	8.3	8.4	8.7	8.3	8.5	8.5	8.2	8.3	8.4	8.2	8.3
8	8.4	8.4	8.4	8.5	8.3	8.4	8.4	8.2	8.3	8.4	8.2	8.3
9	8.5	8.4	8.4	8.7	8.3	8.5	8.4	8.2	8.3	8.4	8.2	8.3
10	8.5	8.4	8.4	8.6	8.3	8.5	8.4	8.2	8.3	8.4	8.2	8.2
11	8.5	8.4	8.4	8.7	8.3	8.4	8.4	8.2	8.3	8.4	8.2	8.3
12	8.5	8.4	8.4	8.7	8.3	8.5	8.4	8.2	8.3	8.4	8.2	8.3
13	8.5	8.3	8.4	8.7	8.3	8.5	8.4	8.1	8.2	8.4	8.1	8.2
14	8.5	8.3	8.4	8.5	8.2	8.4	8.4	8.2	8.3	8.4	8.1	8.2
15	8.5	8.3	8.4	8.4	8.2	8.3	8.5	8.2	8.3	8.4	8.1	8.2
16	8.4	8.3	8.4	8.4	8.1	8.2	8.5	8.3	8.4	8.5	8.1	8.2
17	8.4	8.3	8.4	8.4	8.1	8.2	8.5	8.2	8.4	8.4	8.2	8.3
18	8.5	8.3	8.4	8.3	8.1	8.2	8.5	8.3	8.4	8.4	8.2	8.2
19	8.5	8.4	8.4	8.4	8.2	8.3	8.5	8.3	8.4	8.4	8.2	8.3
20	8.5	8.3	8.4	8.4	8.1	8.2	8.5	8.3	8.4	8.4	8.2	8.3
21	8.5	8.3	8.4	8.4	8.1	8.1	8.5	8.4	8.4	8.4	8.1	8.2
22	8.5	8.3	8.4	8.2	8.0	8.1	8.5	8.3	8.4	8.4	8.1	8.2
23	8.5	8.3	8.4	8.3	8.1	8.2	8.4	8.3	8.3	8.3	8.1	8.2
24	8.6	8.3	8.4	8.2	8.0	8.1	8.4	8.2	8.3	8.4	8.2	8.3
25	8.5	8.3	8.4	8.1	8.0	8.0	8.4	8.3	8.3	8.3	8.1	8.2
26	8.6	8.4	8.5	8.1	7.9	8.0	8.4	8.2	8.4	8.3	8.1	8.2
27	8.6	8.3	8.5	8.1	7.9	8.0	8.4	8.3	8.3	8.3	8.1	8.1
28	8.7	8.3	8.5	8.2	8.0	8.1	8.3	8.2	8.3	8.4	8.0	8.2
29	8.7	8.3	8.5	8.3	8.0	8.1	8.4	8.2	8.2	8.5	8.1	8.2
30	8.6	8.4	8.5	8.4	8.1	8.2	8.3	8.1	8.2	8.3	8.0	8.1
31	8.7	8.3	8.5	---	---	---	8.4	8.2	8.3	8.3	8.0	8.1
MONTH	---	---	---	8.7	7.9	8.3	8.5	8.1	8.3	8.5	8.0	8.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.3	7.9	8.1	8.5	8.4	8.4	8.6	8.2	8.3	8.4	8.1	8.3
2	8.4	7.9	8.1	8.6	8.4	8.5	8.6	8.2	8.4	8.5	8.1	8.3
3	8.4	7.9	8.1	8.5	8.3	8.4	8.7	8.2	8.4	8.5	8.2	8.3
4	8.4	7.9	8.1	8.4	8.1	8.3	8.7	8.2	8.4	8.5	8.2	8.3
5	8.4	7.9	8.1	8.3	8.2	8.3	8.7	8.2	8.5	8.5	8.2	8.3
6	8.5	7.9	8.1	8.3	8.2	8.2	8.8	8.2	8.5	8.4	8.0	8.2
7	8.4	7.9	8.1	8.3	8.2	8.3	8.8	8.2	8.5	8.4	8.1	8.2
8	8.4	7.9	8.1	8.4	8.2	8.3	8.8	8.3	8.5	8.4	8.1	8.2
9	8.4	8.0	8.1	8.4	8.1	8.3	8.7	8.2	8.4	8.4	8.1	8.2
10	8.4	7.9	8.1	8.5	8.1	8.3	8.5	8.2	8.3	8.4	8.1	8.2
11	8.4	8.0	8.1	8.5	8.1	8.2	8.4	8.2	8.3	8.3	8.1	8.2
12	8.4	8.0	8.1	8.6	8.1	8.3	8.4	8.2	8.3	8.3	8.1	8.2
13	8.2	8.0	8.1	8.6	8.2	8.3	8.4	8.2	8.3	8.3	8.1	8.2
14	8.2	7.9	8.1	8.7	8.1	8.3	8.5	8.2	8.3	8.4	8.1	8.2
15	8.1	7.8	8.0	8.8	8.2	8.4	8.5	8.2	8.3	8.4	8.1	8.3
16	8.0	7.9	8.0	8.8	8.2	8.5	8.6	8.1	8.3	8.5	7.9	8.2
17	8.1	7.8	8.0	8.8	8.3	8.4	8.5	8.1	8.3	8.4	7.4	8.1
18	8.2	7.9	8.0	8.5	8.2	8.3	8.4	8.1	8.2	8.2	7.4	7.6
19	8.3	7.9	8.1	8.6	8.2	8.3	8.3	8.1	8.2	8.2	7.5	8.0
20	8.3	8.0	8.2	8.4	8.1	8.2	8.3	8.1	8.2	7.9	7.8	7.9
21	8.3	8.1	8.2	8.6	8.1	8.3	8.3	8.1	8.2	7.9	7.8	7.9
22	8.3	8.1	8.2	8.7	8.2	8.5	8.3	8.1	8.2	7.9	7.9	7.9
23	8.3	8.1	8.2	8.6	8.2	8.4	8.4	8.2	8.3	8.0	7.9	7.9
24	8.2	8.0	8.1	8.6	8.1	8.4	8.4	8.2	8.3	8.0	7.9	7.9
25	8.2	8.1	8.2	8.6	8.1	8.3	8.3	8.1	8.2	8.0	7.9	8.0
26	8.4	8.1	8.2	8.7	8.2	8.4	8.4	8.1	8.3	8.0	7.9	8.0
27	8.4	8.2	8.3	8.6	8.1	8.3	8.3	8.1	8.2	8.0	7.9	8.0
28	8.5	8.2	8.4	8.4	8.1	8.2	8.4	8.1	8.2	8.1	8.0	8.0
29	---	---	---	8.4	8.1	8.2	8.5	8.3	8.3	8.1	8.0	8.1
30	---	---	---	8.5	8.2	8.3	8.4	8.2	8.3	8.0	7.9	8.0
31	---	---	---	8.5	8.2	8.3	---	---	---	8.1	8.0	8.0
MONTH	8.5	7.8	8.1	8.8	8.1	8.3	8.8	8.1	8.3	8.5	7.4	8.1

07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.3	8.1	8.1	7.8	7.6	7.8	7.9	7.6	7.9	8.1	7.5	7.9
2	8.3	8.2	8.2	7.8	7.7	7.7	7.9	7.2	7.7	8.0	7.7	7.9
3	8.3	8.1	8.2	7.7	7.5	7.7	7.9	7.4	7.7	8.1	7.6	7.8
4	8.4	8.2	8.2	7.8	7.7	7.7	7.9	7.2	7.7	8.2	7.7	8.0
5	8.5	8.1	8.3	7.8	7.7	7.7	8.2	7.6	7.9	8.3	7.5	8.0
6	8.5	8.3	8.4	7.8	7.7	7.7	8.3	8.0	8.1	8.2	7.7	8.1
7	8.5	8.3	8.4	7.8	7.6	7.7	8.3	7.7	8.0	8.2	7.6	8.0
8	8.4	8.3	8.4	7.7	7.6	7.7	8.2	7.5	7.9	8.3	7.5	8.1
9	8.4	8.2	8.3	7.7	7.6	7.7	8.2	7.7	7.9	8.2	7.9	8.0
10	8.3	8.2	8.2	7.7	7.6	7.7	8.1	7.6	7.9	8.2	7.7	8.1
11	8.4	8.2	8.3	7.7	7.5	7.6	8.8	7.4	8.1	8.3	7.6	8.1
12	8.4	8.2	8.3	7.7	7.5	7.6	8.8	8.2	8.5	8.4	7.9	8.2
13	8.4	8.2	8.3	7.6	7.3	7.6	8.8	8.2	8.5	8.4	7.6	8.2
14	8.4	8.1	8.2	7.7	7.5	7.6	8.7	8.2	8.5	8.4	7.6	8.2
15	8.3	8.1	8.2	7.7	7.4	7.6	8.7	8.0	8.4	8.5	8.0	8.3
16	8.3	8.1	8.2	7.7	7.5	7.6	8.6	7.8	8.2	8.5	8.1	8.4
17	8.3	8.1	8.2	7.8	7.4	7.7	8.1	7.7	7.9	8.5	8.1	8.4
18	8.2	8.1	8.1	8.1	7.7	7.9	8.2	7.7	7.9	8.5	7.9	8.3
19	8.2	8.1	8.1	8.1	7.8	8.1	---	---	---	8.6	8.0	8.4
20	8.4	7.9	8.2	8.1	7.7	8.0	---	---	---	8.6	8.0	8.4
21	8.1	7.7	8.0	8.0	7.9	7.9	---	---	---	8.6	7.8	8.4
22	8.1	7.9	8.0	8.1	7.9	8.0	---	---	---	8.7	8.0	8.5
23	8.1	7.5	8.0	8.0	7.8	8.0	---	---	---	8.7	8.2	8.6
24	8.0	7.7	7.9	7.9	7.8	7.8	---	---	---	8.8	8.2	8.6
25	8.0	7.9	7.9	8.0	7.8	7.8	---	---	---	8.7	8.2	8.5
26	8.0	7.9	7.9	---	---	---	---	---	---	8.7	7.9	8.5
27	8.0	7.6	7.9	---	---	---	---	---	---	8.8	8.2	8.6
28	7.9	7.5	7.8	---	---	---	---	---	---	8.7	8.3	8.6
29	7.8	7.7	7.7	---	---	---	7.9	7.3	7.8	8.7	8.0	8.5
30	7.8	7.7	7.8	---	---	---	8.0	7.3	7.8	8.8	8.1	8.6
31	---	---	---	8.0	7.9	7.9	8.1	7.4	7.8	---	---	---
MONTH	8.5	7.5	8.1	---	---	---	---	---	---	8.8	7.5	8.3

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.7	16.7	18.2	12.4	9.2	11.0	8.2	3.9	6.2	3.2	.2	1.6
2	17.2	14.6	15.8	11.8	9.6	10.7	7.4	4.2	6.0	2.1	.2	1.2
3	18.1	13.0	15.5	10.6	8.3	9.2	7.2	3.8	5.7	2.4	.4	1.3
4	17.8	10.5	15.9	10.8	8.2	9.4	7.8	5.1	6.6	.5	.0	.0
5	18.9	10.8	15.9	11.9	8.2	10.2	6.6	5.2	5.6	1.7	.0	.4
6	17.1	13.8	15.7	11.0	8.6	10.1	5.8	4.5	5.2	4.1	1.4	2.6
7	17.1	13.0	15.3	12.9	8.7	11.0	6.9	4.0	5.6	3.7	.0	1.9
8	17.6	14.0	15.7	11.9	8.8	10.0	6.2	3.0	4.4	6.1	2.5	4.3
9	17.4	12.6	15.1	11.6	8.4	9.8	3.5	1.1	2.4	5.9	2.6	4.5
10	18.2	12.9	15.6	11.1	7.4	9.5	3.0	.6	2.1	6.7	3.3	5.0
11	18.1	13.1	15.7	11.1	8.1	9.8	4.4	1.6	3.0	7.0	3.2	5.3
12	17.8	13.2	15.6	12.2	9.4	10.7	4.3	1.8	3.2	6.0	3.8	4.8
13	17.3	12.9	15.1	10.7	7.8	9.4	4.9	2.1	3.6	6.0	2.1	4.2
14	15.0	12.3	13.8	8.7	6.9	7.6	4.8	2.1	3.6	6.3	2.1	4.3
15	16.1	12.5	14.2	9.0	6.3	7.4	4.5	1.4	3.1	6.4	2.5	4.7
16	15.3	11.9	13.8	8.8	5.2	7.0	4.6	1.2	3.1	6.4	3.7	5.0
17	15.9	12.8	14.3	7.9	5.4	7.0	5.4	2.5	4.1	4.2	1.3	2.7
18	15.0	10.6	13.0	7.3	3.5	5.5	5.2	2.1	3.9	4.6	.6	2.5
19	16.2	12.0	14.1	7.5	3.5	5.7	5.1	2.7	3.9	4.3	.0	2.3
20	16.1	11.5	13.9	7.5	3.2	5.4	4.6	1.2	3.1	3.7	.9	2.5
21	15.9	11.3	13.7	6.5	4.8	5.7	5.1	1.8	3.6	4.8	1.6	3.3
22	14.9	11.6	13.4	6.2	4.4	5.5	5.2	2.2	3.9	4.5	.7	2.6
23	15.1	10.8	13.1	7.0	3.5	5.1	5.1	2.6	4.0	3.0	.0	1.5
24	13.5	10.9	12.4	7.0	2.4	5.0	6.7	3.6	5.1	4.2	.0	2.1
25	14.0	9.8	12.0	7.2	3.6	5.6	6.5	2.9	4.9	4.5	.7	2.7
26	14.6	9.9	12.4	7.6	4.4	6.2	7.2	3.8	5.4	5.2	1.9	3.5
27	14.2	10.5	12.5	6.1	2.9	4.5	6.2	2.8	4.8	5.9	4.2	5.1
28	14.9	11.3	13.1	4.3	1.3	2.8	5.6	2.4	4.2	6.6	4.3	5.3
29	13.2	10.5	12.0	3.9	.2	2.3	4.9	2.5	3.9	6.3	3.3	4.7
30	11.5	9.5	10.4	6.9	2.3	4.7	4.5	3.7	4.2	5.6	.6	3.3
31	12.7	9.2	11.1	---	---	---	3.7	1.6	2.6	7.0	1.9	4.6
MONTH	20.7	9.2	14.1	12.9	.2	7.5	8.2	.6	4.2	7.0	.0	3.2

07109500 ARKANSAS RIVER NEAR AVONDALE, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.2	3.4	5.8	3.3	1.4	2.5	13.4	6.9	10.3	14.0	9.1	11.7
2	9.3	4.0	6.7	4.9	.6	2.7	13.2	7.1	10.3	14.4	9.1	11.9
3	8.3	4.0	6.2	6.8	1.5	4.2	14.2	7.9	11.1	14.7	9.9	12.4
4	9.2	3.2	6.2	9.5	4.3	6.8	14.9	8.0	11.5	15.1	9.3	12.3
5	7.6	3.7	5.9	9.9	5.8	7.9	15.1	8.5	11.9	13.7	10.4	12.2
6	8.4	2.9	5.8	8.3	4.6	6.3	14.5	8.9	12.0	13.4	9.8	11.9
7	7.0	4.1	5.6	8.3	2.9	5.6	15.3	8.8	12.1	14.5	10.1	12.2
8	6.2	2.9	4.8	7.3	3.2	5.6	15.9	9.0	12.5	12.9	10.0	11.6
9	8.0	3.0	5.6	10.9	---	---	13.2	6.1	9.2	14.3	9.2	11.8
10	7.6	3.1	5.3	12.4	---	---	9.0	4.7	6.8	16.2	9.8	13.0
11	4.7	1.6	3.0	12.5	7.6	10.3	11.3	4.8	8.0	17.2	11.5	14.6
12	2.7	.0	1.2	12.2	7.9	10.2	13.4	5.9	9.6	16.2	11.6	14.1
13	1.2	.0	.5	12.8	6.6	9.8	12.2	7.8	10.2	16.8	10.0	13.5
14	5.4	.0	2.4	13.2	6.8	10.1	14.3	8.4	11.3	17.2	11.2	14.3
15	5.1	1.5	3.5	13.5	7.2	10.5	12.9	8.2	10.6	18.1	11.3	14.8
16	6.3	1.0	3.7	13.2	8.0	10.7	14.5	8.3	11.5	17.0	12.1	14.9
17	6.1	1.2	3.9	13.6	8.5	11.1	11.7	7.1	8.5	14.9	8.6	11.8
18	7.6	2.7	5.3	14.2	8.5	11.5	12.2	6.3	9.2	---	---	---
19	9.1	3.5	6.6	13.6	8.8	11.2	10.8	7.0	7.8	15.3	---	---
20	11.0	5.0	8.1	12.6	7.0	9.8	12.5	6.0	9.0	14.9	12.0	13.3
21	11.0	5.2	8.3	13.2	7.8	10.6	10.8	6.0	7.6	16.3	12.6	14.4
22	11.5	6.1	8.8	13.3	8.7	10.9	8.1	5.0	6.6	15.9	12.6	14.2
23	11.4	5.7	8.6	13.0	6.9	9.9	11.8	6.2	8.8	14.4	11.4	12.2
24	11.6	5.8	8.7	13.4	8.4	10.8	13.1	7.0	9.9	11.4	10.4	10.9
25	11.6	6.0	9.0	11.8	8.1	10.1	13.9	7.8	10.8	11.1	10.2	10.6
26	12.1	7.7	10.0	9.3	6.9	8.2	12.2	7.1	9.2	14.7	10.8	12.4
27	11.6	7.1	9.4	12.0	6.0	8.9	13.9	7.9	10.7	14.8	11.9	13.2
28	8.4	3.1	5.3	9.1	4.9	7.1	14.2	9.6	12.1	14.3	11.3	12.8
29	---	---	---	7.8	6.0	6.9	13.6	10.1	11.8	13.2	11.8	12.5
30	---	---	---	10.7	5.5	7.7	13.8	9.6	11.6	14.6	11.1	12.6
31	---	---	---	12.3	5.4	9.0	---	---	---	15.3	11.2	13.3
MONTH	12.1	.0	5.9	14.2	---	---	15.9	4.7	10.1	---	---	---
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	12.5	14.6	18.3	15.0	16.4	21.1	16.1	18.2	23.7	18.2	20.9
2	16.5	13.3	14.9	18.8	14.5	16.5	21.5	16.5	18.7	23.5	18.2	20.9
3	15.8	12.9	14.6	17.6	15.2	16.3	21.4	16.6	18.7	24.0	18.1	20.9
4	17.4	12.7	14.9	17.3	14.7	16.0	21.2	16.6	18.7	24.0	18.5	21.2
5	17.6	13.4	15.4	18.9	14.7	16.5	22.4	16.6	19.3	24.1	18.3	21.2
6	17.8	13.7	15.7	19.4	15.3	17.1	22.6	16.7	19.5	22.7	18.1	20.4
7	17.3	13.2	15.1	20.1	15.7	17.6	23.1	17.0	19.8	20.4	18.0	18.7
8	14.9	13.1	13.7	20.1	15.8	17.6	22.9	17.2	20.0	21.1	17.2	18.8
9	16.8	12.7	14.4	20.0	15.8	17.7	20.6	17.5	18.5	20.0	17.8	18.5
10	14.7	12.8	13.7	19.9	15.8	17.6	23.1	17.1	19.9	20.9	17.4	18.9
11	17.3	12.9	14.8	19.9	15.7	17.6	22.8	17.5	20.1	21.4	16.9	19.3
12	18.3	13.4	15.6	20.1	15.9	17.7	22.6	18.0	20.1	22.0	17.1	19.4
13	18.8	13.9	16.1	20.0	15.7	17.5	23.0	17.8	20.2	22.2	17.1	19.6
14	18.9	14.3	16.3	19.0	16.0	17.4	20.6	17.6	19.0	22.0	17.4	19.6
15	16.7	14.2	15.5	20.1	16.3	17.9	23.0	17.2	19.8	21.8	16.9	19.5
16	17.2	14.0	15.4	19.7	16.8	18.0	22.9	17.1	19.9	21.4	17.4	19.5
17	16.0	14.0	14.9	19.6	16.8	17.9	23.1	17.5	20.2	22.1	16.9	19.6
18	18.7	14.1	16.1	19.0	16.9	17.8	23.0	17.8	20.2	20.6	17.4	19.1
19	18.8	14.6	16.5	20.1	16.9	18.3	---	---	---	19.5	17.0	18.2
20	19.0	15.1	16.8	20.2	17.1	18.4	---	---	---	19.9	16.3	17.9
21	18.7	15.1	16.6	20.2	16.9	18.4	---	---	---	17.2	14.5	15.5
22	19.0	14.9	16.7	20.6	16.8	18.4	---	---	---	19.1	14.0	16.4
23	18.7	15.4	16.6	20.0	16.8	18.2	---	---	---	19.1	14.7	17.0
24	18.4	15.3	16.6	21.1	16.5	18.6	---	---	---	17.4	15.3	15.9
25	19.0	15.2	16.9	---	17.0	---	---	---	---	18.9	13.7	16.2
26	19.1	15.4	17.0	---	---	---	---	---	---	19.4	14.4	17.0
27	19.5	15.5	17.2	---	---	---	---	---	---	21.1	15.4	18.3
28	19.1	15.8	17.0	---	---	---	---	---	---	19.5	16.4	17.9
29	16.5	15.5	16.0	---	---	---	23.3	---	---	18.2	15.8	17.2
30	15.7	15.0	15.4	---	---	---	22.9	18.4	20.4	19.1	15.2	17.0
31	---	---	---	20.8	---	---	23.4	18.0	20.6	---	---	---
MONTH	19.5	12.5	15.7	---	---	---	---	---	---	24.1	13.7	18.7

ARKANSAS RIVER BASIN

07116500 HUERFANO RIVER NEAR BOONE, CO

LOCATION.--Lat 38°13'30", long 104°15'37", in NE¹/4NE¹/4 sec.18, T.21 S., R.61 W., Pueblo County, Hydrologic Unit 11020006, at right upstream end of bridge on U.S. Highway 50, 0.8 mi upstream from mouth, and 1.6 mi south of Boone.

DRAINAGE AREA.--1,875 mi².

PERIOD OF RECORD.--January 1922 to September 1925 (monthly and annual discharge only, published in WSP 1311 as near Nepesta), October 1979 to current year.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. Datum of gage is 4,443.75 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 21-28, Dec. 10-14, Jan. 4-10, Feb. 11-14, and Mar. 1-2. Records fair except those for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation of about 48,000 acres, and return flow from irrigated areas. Several measurements of water temperature and specific conductance were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	6.0	25	25	33	9.0	7.7	30	175	232	2.1	2.4
2	.00	3.9	27	26	28	9.0	8.5	32	171	340	3.3	3.7
3	.00	3.4	24	28	24	9.1	9.3	25	164	338	3.0	5.1
4	.00	6.2	25	29	25	12	9.1	20	169	287	2.6	7.9
5	5.3	8.9	21	30	20	9.5	9.3	20	179	299	2.7	7.3
6	11	8.7	19	30	20	6.1	9.3	17	197	296	2.4	8.3
7	8.2	11	15	30	18	6.2	9.7	17	211	229	2.4	8.0
8	8.0	14	14	30	16	6.3	11	19	231	89	2.4	12
9	2.2	16	16	29	17	7.2	13	17	259	46	2.5	15
10	1.4	14	16	28	17	5.5	26	18	245	32	1.9	23
11	2.2	16	17	28	17	4.5	31	16	233	24	1.6	32
12	1.2	19	17	19	16	4.3	31	16	204	15	1.4	30
13	1.8	20	18	17	17	4.1	27	16	240	10	1.2	8.4
14	2.9	25	20	19	18	4.0	15	14	235	7.0	1.1	44
15	1.7	27	22	19	18	3.7	12	14	222	5.9	.82	46
16	2.7	14	21	13	22	4.7	13	15	226	268	.62	30
17	4.0	14	22	19	19	14	13	74	213	126	.52	16
18	4.0	14	27	16	19	8.8	14	350	254	473	.38	15
19	4.4	12	25	15	15	5.2	17	182	304	1300	47	15
20	4.5	14	24	22	11	5.3	22	152	295	885	2.8	18
21	2.3	15	24	22	10	7.5	25	146	276	694	1.3	24
22	1.5	15	21	20	8.6	11	37	148	285	468	2.4	57
23	3.0	14	22	27	7.9	15	41	154	228	343	7.7	76
24	6.9	14	24	24	7.4	6.9	40	159	666	101	7.1	70
25	2.9	14	23	22	7.9	9.0	39	167	425	35	5.5	71
26	2.8	14	25	27	7.5	9.6	36	159	284	15	5.2	48
27	3.9	13	25	31	7.0	6.7	37	153	168	9.0	2.9	40
28	4.6	12	24	31	7.0	13	24	133	68	4.7	2.4	25
29	4.4	11	24	30	---	20	23	130	224	8.5	2.7	18
30	4.0	12	19	34	---	16	32	148	206	8.7	2.7	18
31	5.7	---	19	35	---	11	---	188	---	6.2	2.7	---
TOTAL	107.50	401.1	665	775	453.3	264.2	641.9	2749	7257	6995.0	125.34	794.1
MEAN	3.47	13.4	21.5	25.0	16.2	8.52	21.4	88.7	242	226	4.04	26.5
MAX	11	27	27	35	33	20	41	350	666	1300	47	76
MIN	.00	3.4	14	13	7.0	3.7	7.7	14	68	4.7	.38	2.4
AC-FT	213	796	1320	1540	899	524	1270	5450	14390	13870	249	1580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1995, BY WATER YEAR (WY)

	7.79	14.5	14.3	21.1	25.3	20.8	23.8	167	119	32.3	32.3	6.29
MEAN	7.79	14.5	14.3	21.1	25.3	20.8	23.8	167	119	32.3	32.3	6.29
MAX	46.7	46.0	34.2	65.1	64.5	129	94.3	1113	667	226	254	26.5
(WY)	1985	1986	1987	1984	1984	1984	1988	1987	1983	1995	1981	1995
MIN	.000	.000	.000	.000	.13	2.12	.47	.53	.16	.000	.36	.000
(WY)	1990	1990	1990	1990	1990	1990	1990	1992	1981	1989	1988	1980

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1980 - 1995

ANNUAL TOTAL	15668.97	21228.44	
ANNUAL MEAN	42.9	58.2	40.4
HIGHEST ANNUAL MEAN			153
LOWEST ANNUAL MEAN			5.09
HIGHEST DAILY MEAN	1050	Jun 3	1300
LOWEST DAILY MEAN	a .00	Jul 6	a .00
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 6	.86
INSTANTANEOUS PEAK FLOW			3650
INSTANTANEOUS PEAK STAGE			11.75
ANNUAL RUNOFF (AC-FT)	31080	42110	29290
10 PERCENT EXCEEDS	70	205	62
50 PERCENT EXCEEDS	11	17	5.6
90 PERCENT EXCEEDS	.00	2.8	.00

a-No flow many days most years.

b-Maximum discharge for period of record, 19400 ft³/s, Aug 1, 1923, gage height, 9.4 ft, datum then in use, from rating curve extended above 1200 ft³/s, on the basis of slope-area measurement of peak flow.

c-Maximum gage height for statistical period, 11.75 ft, Jul 19, 1995.

07117000 ARKANSAS RIVER NEAR NEPESTA, CO

LOCATION.--Lat 38°11'03", long 104°10'22", in SW¹/4SW¹/4 sec.25, T.21 S., R.61 W., Pueblo County, Hydrologic Unit 110200005, on right bank 0.7 mi upstream from headgate of Oxford Farmers Co. canal, 1.9 mi northwest of Nepesta, 2.7 mi upstream from Kramer Creek, and 6.6 mi downstream from Huerfano River.

DRAINAGE AREA.--9,345 mi², of which 54 mi² is probably noncontributing.

PERIOD OF RECORD.--April to October 1903, April to November 1912, October 1913 to current year. Statistical summary computed for 1975 to current year. Monthly discharge only for some periods, published in WSP 1311. Records originally published for October 1933 to June 1936 did not include diversions to Oxford Farmers Co. canal, but monthly figures only for this period have been adjusted for diversion, and published in WSP 1311. Records for river below Oxford Farmers Co. canal (diversion to canal not included), published as "at Nepesta" September 1897 to October 1903 (irrigation seasons only), April to October 1904, June 1906 to September 1908 (irrigation seasons only), September 1909 to December 1910, February to September 1911 (gage heights and discharge measurements only), October 1913 to November 1912, March to August 1913 (discharge measurements only), October 1913 to September 1936. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1341: Drainage area, WDR CO-79-1: 1965.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,385 ft above sea level, from topographic map. Prior to June 5, 1921, nonrecording gages or water-stage recorders at various sites within 4.5 mi upstream and 3.0 mi downstream at different datums. June 5, 1921 to Apr. 4, 1966, water-stage recorders at sites on river or river and canal within 0.7 mi downstream at various datums.

REMARKS.--Estimated daily discharges: Jan. 4-6, May 18-19, June 3-5, 9-13, 16-29, July 2-7, 11-24, and July 26. Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation of about 230,000 acres, and return flow from irrigated areas. Flow partly regulated by Pueblo Reservoir (station 07099350) since Jan. 9, 1974.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REVISIONS.--The instantaneous maximum discharge for the water year 1994 has been revised to 7,750 ft³/s, June 3, 1994, gage height, 5.11 ft, superseding the figure published in the 1994 report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	436	517	270	329	145	314	479	1310	2800	3040	2000	951
2	544	462	290	331	136	319	459	1310	3040	4530	2050	933
3	493	440	300	337	112	314	453	1270	3800	5200	2090	964
4	318	493	307	330	115	330	434	1210	3600	5800	1940	941
5	1290	546	301	320	107	363	426	1190	3300	6000	1440	905
6	566	576	290	350	96	374	422	1390	3050	6000	1290	913
7	620	588	283	328	105	387	434	1270	3410	5000	1160	806
8	484	606	266	344	110	486	447	1120	3770	3530	921	815
9	424	608	271	355	115	458	446	939	3700	3490	883	988
10	424	598	240	354	119	482	512	684	5500	3610	1010	1150
11	435	599	234	340	136	450	630	780	5400	4600	980	1250
12	435	567	234	328	164	425	641	829	4800	5000	972	1370
13	403	533	255	322	153	432	586	798	3900	5160	981	1210
14	395	510	258	319	147	441	450	699	3350	5200	968	971
15	405	522	242	328	123	404	385	542	3640	5700	1020	866
16	573	427	238	309	169	409	446	548	4200	5800	1070	824
17	511	374	238	296	171	462	464	1370	5000	5600	1070	817
18	623	363	243	301	170	472	576	5000	5600	6000	1070	821
19	581	366	254	306	184	441	745	5400	5600	5800	2320	823
20	625	358	260	313	179	453	894	3770	5100	5600	1750	857
21	654	384	261	312	174	447	926	2150	4600	5400	1090	877
22	562	404	317	302	181	418	1220	1940	4900	4900	1060	873
23	517	408	423	286	187	428	953	1910	5000	4500	1080	803
24	491	418	394	205	203	431	1090	2020	5200	3850	1250	718
25	493	438	404	138	234	462	1140	2270	5400	3070	1270	671
26	548	434	388	146	261	467	1090	3190	4500	2600	1600	627
27	557	399	370	163	269	456	1200	3370	4200	2300	1790	620
28	538	376	377	150	266	477	1020	2820	5000	2160	1700	632
29	529	333	385	138	---	530	1070	2150	4800	2090	1390	653
30	521	245	371	142	---	534	1250	2860	3270	2050	1260	645
31	523	---	353	145	---	517	---	3140	---	1950	1060	---
TOTAL	16518	13892	9317	8667	4531	13383	21288	59249	129430	135530	41535	26294
MEAN	533	463	301	280	162	432	710	1911	4314	4372	1340	876
MAX	1290	608	423	355	269	534	1250	5400	5600	6000	2320	1370
MIN	318	245	234	138	96	314	385	542	2800	1950	883	620
AC-FT	32760	27550	18480	17190	8990	26550	42220	117500	256700	268800	82380	52150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	404	397	338	376	363	392	583	1257	2190	1547	977	447										
MAX	1433	909	772	818	1134	1040	1568	3763	4314	4372	2565	1223										
(WY)	1985	1985	1987	1985	1985	1985	1987	1980	1995	1995	1984	1982										
MIN	104	149	110	124	162	168	99.3	254	518	307	372	93.1										
(WY)	1979	1979	1991	1990	1995	1978	1978	1981	1977	1977	1977	1977										

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1975 - 1995	
ANNUAL TOTAL	277069		479634			
ANNUAL MEAN	759		1314		a 774	
HIGHEST ANNUAL MEAN					1356	
LOWEST ANNUAL MEAN					349	
HIGHEST DAILY MEAN	6350	Jun 3	b 6000	Jul 5	c 8770	Aug 22 1984
LOWEST DAILY MEAN	74	Jan 24	96	Feb 6	d 33	Nov 26 1990
ANNUAL SEVEN-DAY MINIMUM	84	Jan 24	109	Feb 3	e 38	Nov 22 1990
INSTANTANEOUS PEAK FLOW			Not determined		e 13600	
INSTANTANEOUS PEAK STAGE			Not determined		9.45	
ANNUAL RUNOFF (AC-FT)	549600		951400		560900	
10 PERCENT EXCEEDS	1900		4320		1730	
50 PERCENT EXCEEDS	492		562		435	
90 PERCENT EXCEEDS	212		238		180	

a-Average discharge for 60 years (water years 1914-73), 684 ft³/s; 495600 acre-ft/yr, prior to completion of Pueblo Dam.

b-Also occurred Jul 6 and 18.

c-Maximum daily discharge for period of record, 26600 ft³/s, May 16, 1957.

d-Minimum daily discharge for period of record, no flow at times in 1902, 1910 1931, and 1934.

e-Maximum discharge for period of record, 180000 ft³/s, Jun 4, 1921, by slope-area measurement of peak flow at a point 8 mi upstream; gage height not determined.

07119500 APISHAPA RIVER NEAR FOWLER, CO

LOCATION.--Lat 38°05'28", long 103°58'52", in SE¹/₄NW¹/₄ sec.35, T.22 S., R.59 W, Otero Country, Hydrologic Unit 11020007, near right bank on downstream side of county highway bridge, 3.5 mi southeast of Fowler, and 5.4 mi upstream from mouth.

DRAINAGE AREA.--1,125 mi².

PERIOD OF RECORD.--Streamflow records, April 1922 to September 1925, May 1939 to current year. Monthly discharge only for some periods, published in WSP 1311. Water-quality data available, November 1963 to September 1967, January to April 1969.

REVISED RECORDS.--WSP 957: 1939, 1941. WSP 1117: Drainage area. WSP 1241: 1923(M). WRD Colo. 1974: 1973(M).

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. Datum of gage is 4,317.05 ft above sea level. Prior to Aug. 29, 1923, at site 3 mi downstream at different datum. Aug. 29, 1923, to Sept. 30, 1925, at present site at different datum. May 27, 1939 to July 30, 1940, at present site at different datum. July 30, 1940 to Sept. 30, 1985, at datum 2.0 ft, higher.

REMARKS.--Estimated daily discharges: Nov. 18-30, Dec. 3-8, June 3-6, 16-21, July 19-20, and July 24-27. Records fair except for estimated daily discharges, which are poor. Waste water from Oxford Farmers Co., and Rocky Ford Highline canals enters river upstream from station. Diversions upstream from station for irrigation of about 4,700 acres. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	26	5.3	3.4	3.5	2.3	6.6	28	84	41	13	21
2	23	26	5.1	3.4	3.4	2.3	4.6	23	72	65	12	21
3	24	21	5.0	3.4	4.0	2.3	6.1	22	209	54	11	21
4	46	21	4.8	3.0	3.5	2.3	5.4	23	120	41	9.9	22
5	25	23	4.8	3.1	3.1	2.3	5.9	19	90	47	8.9	22
6	37	24	4.8	3.2	3.3	2.3	3.6	28	70	35	7.7	22
7	24	17	4.9	3.4	3.1	2.3	3.2	31	189	26	7.0	21
8	23	19	5.1	3.7	3.6	2.3	3.1	28	131	28	6.5	22
9	21	17	5.3	3.7	4.0	2.3	4.1	29	40	21	6.6	21
10	23	16	4.8	3.6	4.1	2.3	18	23	36	16	7.0	22
11	26	12	4.4	3.3	4.3	2.3	2.5	29	31	21	7.3	23
12	27	16	4.5	3.3	4.1	2.3	15	27	27	14	7.2	23
13	16	19	3.6	3.2	4.1	2.3	15	15	26	14	7.5	23
14	11	22	3.6	3.2	4.1	2.3	17	3.0	22	17	7.5	24
15	12	14	3.4	3.6	3.5	13	13	5.9	18	16	7.8	24
16	13	7.9	3.1	3.2	2.8	23	12	13	16	19	8.2	24
17	15	6.7	3.9	3.1	2.7	15	16	27	15	22	9.0	25
18	16	6.5	4.0	3.0	2.5	11	12	143	17	22	9.7	25
19	25	6.2	3.8	3.1	2.5	6.2	8.7	43	20	1100	9.8	24
20	24	6.0	3.8	3.2	2.5	5.2	8.3	31	22	500	11	22
21	20	5.8	3.6	3.2	2.3	2.1	25	33	20	390	12	20
22	21	5.6	3.3	3.2	2.3	3.3	41	31	18	214	13	21
23	21	5.4	3.1	3.0	2.3	4.7	37	35	20	93	14	22
24	20	5.2	3.7	3.3	2.3	2.8	33	40	30	50	15	21
25	20	5.0	4.2	3.2	2.3	3.7	30	33	30	25	16	22
26	22	4.8	4.1	3.4	2.3	4.7	30	31	30	19	17	22
27	20	4.6	3.9	3.5	2.3	2.2	25	34	21	20	18	23
28	18	4.4	3.4	3.5	2.3	2.9	24	30	21	19	19	23
29	22	4.4	3.0	3.3	---	3.9	31	36	65	18	20	23
30	24	4.6	3.3	3.2	---	3.0	25	241	46	17	20	23
31	27	---	3.5	3.2	---	4.9	---	194	---	15	20	---
TOTAL	681	376.1	127.1	102.1	87.1	143.8	481.1	1328.9	1556	2999	358.6	672
MEAN	22.0	12.5	4.10	3.29	3.11	4.64	16.0	42.9	51.9	96.7	11.6	22.4
MAX	46	26	5.3	3.7	4.3	23	41	241	209	1100	20	25
MIN	11	4.4	3.0	3.0	2.3	2.1	2.5	3.0	15	14	6.5	20
AC-FT	1350	746	252	203	173	285	954	2640	3090	5950	711	1330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1995, BY WATER YEAR (WY)

	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956			
MEAN	15.2	17.1	11.4	7.20	9.67	11.6	22.0	43.5	47.0	55.6	66.5	19.7																										
MAX	87.2	83.1	54.7	30.4	54.0	59.6	529	576	290	306	628	154																										
(WY)	1924	1966	1966	1966	1971	1924	1942	1955	1948	1958	1923	1940																										
MIN	1.06	.90	1.33	2.37	1.85	1.35	.94	1.65	1.13	1.53	1.56	1.07																										
(WY)	1965	1940	1955	1976	1976	1955	1975	1975	1954	1974	1974	1956																										

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1922 - 1995	
ANNUAL TOTAL	4549.0		8912.8			
ANNUAL MEAN	12.5		24.4		27.5	
HIGHEST ANNUAL MEAN					105	
LOWEST ANNUAL MEAN					5.73	
HIGHEST DAILY MEAN	88	May 17	1100	Jul 19	10100	May 19 1955
LOWEST DAILY MEAN	^a 2.3	Feb 12	2.1	Mar 21	.00	Feb 5 1951
ANNUAL SEVEN-DAY MINIMUM	2.3	Mar 11	2.3	Feb 21	.16	Jan 30 1951
INSTANTANEOUS PEAK FLOW			5550	Jul 19	^b 83000	
INSTANTANEOUS PEAK STAGE			13.56	Jul 19	^c	
ANNUAL RUNOFF (AC-FT)	9020		17680		19900	
10 PERCENT EXCEEDS	26		33		45	
50 PERCENT EXCEEDS	6.1		15		6.7	
90 PERCENT EXCEEDS	2.7		3.0		1.8	

a-Also occurred Feb 13-15 and Mar 13-17.

b-From slope-area measurement of peak flow, at site 2 mi upstream from present site, caused by failure of Apishapa Dam 31 mi upstream.

c-Peak stage for flood of Aug 22, 1923, unknown.

07119700 ARKANSAS RIVER AT CATLIN DAM, NEAR FOWLER, CO

LOCATION.--Lat 38°07'33", long 103°54'41", in NW¹/4NW¹/4 sec.21, T.22 S., R.58 W., Otero County, Hydrologic Unit 11020005, 600 ft downstream from gage on Catlin Canal, on right bank 2.2 mi downstream from diversion dam for Catlin Canal, 2.3 mi downstream from Apishapa River, and 6.0 mi east of Fowler.

DRAINAGE AREA.--10,901 mi², of which 54 mi² is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to current year. Statistical summary computed for 1975 to current year.

GAGE.--Water-stage recorders with satellite telemetry on river and on Catlin Canal. Datum of river gage is 4,245.92 ft above sea level. Datum of canal gage is 4,257.87 ft above sea level. Prior to May 13, 1971, river gage at site 2.2 mi upstream at datum 24.08 ft, higher, and canal gage at site 1.7 mi upstream at datum 3.26 ft, higher.

REMARKS.--Estimated daily discharges: Jan. 3-4, Feb. 13, and Mar. 1-2. Records fair except for estimated daily discharges, which are poor. Discharge computed by combining discharge of river below canal with that of Catlin Canal. Natural flow of stream affected by transmountain diversions, storage reservoirs, ground-water withdrawals, diversions for irrigation, and return flow from irrigated areas. Flow partly regulated by Pueblo Reservoir (station 07099350) since Jan. 9, 1974.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	536	491	271	399	164	240	508	1350	3020	3040	1990	913
2	564	483	279	372	160	275	493	1290	3240	3690	2040	1020
3	775	482	288	368	158	326	483	1250	3640	4280	2130	932
4	450	502	279	364	146	320	451	1240	3940	4850	2000	992
5	1310	538	279	359	151	320	444	1240	3190	5100	1690	929
6	609	561	288	464	154	287	441	1240	3390	5410	1370	914
7	564	530	294	395	151	266	441	1550	3510	5100	1240	851
8	539	531	289	419	153	311	450	1220	4510	3850	994	763
9	470	547	281	416	153	334	472	1160	4400	3460	786	916
10	467	553	262	415	151	343	553	798	5110	3540	948	1090
11	451	552	276	385	152	384	684	780	5100	4080	1030	1300
12	438	553	269	357	150	337	712	910	4750	4670	962	1140
13	423	523	282	337	152	300	687	865	4170	4590	980	1400
14	420	539	291	334	169	320	561	828	3740	4660	973	1000
15	423	629	299	338	163	394	513	710	3850	4780	997	969
16	484	496	309	331	180	381	509	564	4080	4930	1100	956
17	611	433	317	338	190	413	563	669	4340	5240	1110	845
18	582	370	315	340	183	440	622	3740	5030	4710	1070	884
19	612	360	302	343	200	409	717	4270	5340	6390	2580	841
20	557	379	303	360	207	422	818	4660	5170	6560	2490	850
21	579	401	320	354	202	442	959	2790	4970	4940	1410	893
22	563	430	320	347	206	416	1370	2180	4980	4740	1340	948
23	495	402	462	317	210	393	1220	2080	5220	4700	1210	929
24	497	371	466	297	234	421	984	2140	5260	4280	1370	867
25	490	371	449	189	234	416	1320	2370	5330	3330	1380	781
26	511	374	448	179	221	445	1190	3010	4750	2630	1920	720
27	523	380	430	190	221	432	1360	3540	4490	2100	2040	669
28	525	376	418	188	233	433	1160	3210	4760	1950	2130	643
29	506	348	414	179	---	511	1100	2520	5490	1900	1700	662
30	510	291	435	158	---	512	1190	2970	3820	1940	1410	682
31	496	---	437	159	---	522	---	3600	---	1900	1170	---
TOTAL	16980	13796	10372	9991	5048	11765	22975	60744	132590	127340	45560	27299
MEAN	548	460	335	322	180	380	766	1959	4420	4108	1470	910
MAX	1310	629	466	464	234	522	1370	4660	5490	6560	2580	1400
MIN	420	291	262	158	146	240	441	564	3020	1900	786	643
AC-FT	33680	27360	20570	19820	10010	23340	45570	120500	263000	252600	90370	54150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	405	414	362	415	406	380	554	1220	2154	1468	979	449										
MAX	1234	925	773	854	1249	867	1526	3888	4420	4108	2384	1209										
(WY)	1985	1985	1987	1985	1985	1985	1987	1987	1995	1995	1984	1982										
MIN	91.0	152	133	175	180	175	86.6	212	432	286	526	84.5										
(WY)	1979	1979	1991	1990	1995	1978	1978	1981	1977	1977	1978	1977										

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1975 - 1995	
ANNUAL TOTAL	285590		484460			
ANNUAL MEAN	782		1327		a769	
HIGHEST ANNUAL MEAN					1327	
LOWEST ANNUAL MEAN					351	
HIGHEST DAILY MEAN	6110	Jun 4	6560	Jul 20	b8480	Jul 10 1978
LOWEST DAILY MEAN	106	Feb 1	146	Feb 4	c30	Sep 12 1974
ANNUAL SEVEN-DAY MINIMUM	138	Jan 27	151	Feb 4	d46	Oct 2 1978
INSTANTANEOUS PEAK FLOW			d9970	Jul 19	e23300	Jul 10 1978
INSTANTANEOUS PEAK STAGE			Not determined		10.81	Jul 10 1978
ANNUAL RUNOFF (AC-FT)	566500		960900		556800	
10 PERCENT EXCEEDS	1960		4280		1690	
50 PERCENT EXCEEDS	496		561		438	
90 PERCENT EXCEEDS	189		253		190	

a-Average discharge for 9 years (water years 1965-73), 636 ft³/s, 460800 acre-ft/yr, prior to completion of Pueblo Dam.

b-Maximum daily discharge for period of record, 43200 ft³/s, Jun 18, 1965.

c-Also occurred Aug 14, 1977.

d-Maximum combined instantaneous discharge.

e-Maximum discharge and stage for period of record, 43200 ft³/s, Jun 18, 1965, gage height, 7.95 ft, site and datum then in use, from rating curve extended above 13000 ft³/s, on basis of flow-over-dam computation of peak flow.

07119700 ARKANSAS RIVER AT CATLIN DAM NEAR FOWLER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1990 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1990 to current year.
WATER TEMPERATURE: May 1990 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for daily specific conductance are good except Oct.1, 18-25, Feb. 12-14, May 1-9, 18-23 which are fair, and Sept 13, and 17, which are poor. Records for water temperature are good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,800 microsiemens, Apr. 27, 1991; minimum, 244 microsiemens, May 25, 1993.
WATER TEMPERATURE: Maximum, 30.9°C, Aug. 9, 1992; minimum, 0.0°C, many days during the winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,570 microsiemens, Feb. 15-16; minimum, 373 microsiemens, July 29.
WATER TEMPERATURE: Maximum, 27.3°C, Aug. 11; minimum, 0.0°C, many days during winter.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	976	954	962	1130	1080	1100	1310	1220	1260	1370	1270	1310
2	990	926	963	1120	1100	1110	1300	1250	1280	1360	1280	1320
3	944	776	883	1130	1110	1120	1270	1210	1230	1330	1270	1310
4	1080	824	947	1130	1110	1120	---	---	---	1380	1320	1350
5	1540	744	948	1120	1100	1110	1240	1220	1230	1370	1290	1340
6	1010	818	910	1110	1080	1100	1250	1220	1230	1300	1250	1270
7	1040	940	1000	1100	1070	1090	1250	1220	1240	1350	1270	1330
8	1020	926	976	1100	1060	1080	1250	1220	1240	1340	1280	1300
9	1080	1020	1060	1080	1060	1070	1290	1220	1240	1330	1310	1320
10	1100	1070	1080	1070	1040	1060	1270	1220	1240	1320	1280	1300
11	1100	1050	1070	1060	1040	1050	1240	1170	1200	1320	1290	1300
12	1070	1050	1060	1070	1050	1060	1290	1160	1220	1340	1310	1330
13	1090	1050	1070	1090	1060	1080	1230	1180	1210	1350	1330	1350
14	1120	1060	1080	1090	1040	1070	1240	1120	1200	1370	1340	1360
15	1110	1070	1090	1090	1020	1060	1210	1180	1200	1390	1350	1370
16	1090	1030	1060	1200	1050	1130	1220	1200	1210	1390	1350	1370
17	1050	934	973	1290	1200	1260	1230	1160	1210	1400	1350	1370
18	996	855	940	1310	1290	1300	1230	1200	1210	1390	1350	1370
19	956	920	942	1340	1300	1320	1220	1200	1210	1410	1340	1370
20	996	946	963	1300	1260	1280	1220	1180	1210	1450	1360	1380
21	996	977	989	1360	1280	1320	1220	1180	1200	1390	1350	1360
22	1000	980	987	1360	1330	1340	1250	1170	1210	1400	1350	1370
23	1050	996	1020	1350	1330	1340	1200	1070	1150	1410	1340	1370
24	1060	1040	1060	1380	1350	1360	1230	1090	1180	1400	1340	1380
25	1080	1050	1070	1380	1350	1360	1280	1230	1260	1550	1380	1450
26	1080	1030	1050	1370	1330	1350	1290	1260	1270	1540	1480	1500
27	1060	1030	1040	1360	1330	1350	1290	1270	1280	1520	1470	1480
28	1090	1040	1060	1360	1340	1350	1300	1270	1290	1490	1460	1470
29	1080	1060	1070	1400	1340	1370	1300	1270	1290	1510	1470	1490
30	1090	1050	1070	1370	1280	1350	1310	1260	1280	1540	1470	1510
31	1090	1070	1080	---	---	---	1300	1260	1280	1510	1470	1490
MONTH	1540	744	1020	1400	1020	1200	---	---	---	1550	1250	1370

07119700 ARKANSAS RIVER AT CATLIN DAM NEAR FOWLER, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	1500	1470	1480	1310	1220	1270	1050	1020	1040	894	812	843
2	1500	1460	1480	1230	1130	1190	1040	1010	1030	910	831	850
3	1510	1470	1490	1210	1110	1160	1060	1000	1020	843	820	831
4	1520	1490	1500	1260	1170	1220	1060	1020	1040	831	803	817
5	1510	1480	1490	1370	1240	1280	1070	1040	1050	815	782	796
6	1490	1470	1480	1270	1200	1240	1070	1040	1050	815	792	802
7	1490	1480	1480	1260	1200	1220	1070	1040	1060	805	749	773
8	1490	1460	1470	1260	1150	1220	1060	1020	1050	800	749	769
9	1480	1440	1460	1170	1140	1160	1050	1000	1020	818	788	800
10	1460	1420	1440	1200	1150	1180	1080	989	1040	904	808	851
11	1450	1390	1420	1150	1080	1100	1070	1010	1040	904	866	886
12	1440	1400	1420	1180	1100	1150	1180	1010	1050	908	886	895
13	1420	1380	1400	1220	1160	1180	1030	1000	1020	914	886	898
14	1460	1380	1410	1210	1140	1180	1130	1020	1060	918	874	889
15	1570	1440	1470	1300	1130	1180	1130	1070	1080	980	904	930
16	1570	1440	1510	1300	1160	1200	1110	1050	1090	974	888	940
17	1530	1450	1510	1180	1120	1150	1050	954	1000	904	834	873
18	1500	1470	1490	1150	1110	1130	963	931	946	977	761	870
19	1480	1410	1450	1180	1110	1150	965	922	950	821	701	756
20	1440	1400	1410	1190	1120	1170	922	890	908	711	679	698
21	1410	1380	1400	1130	1100	1120	910	848	877	745	665	714
22	1430	1380	1400	1130	1100	1110	910	870	896	719	646	695
23	1420	1380	1400	1170	1100	1140	932	880	901	720	590	675
24	1390	1330	1370	1110	1080	1100	966	920	942	614	582	598
25	1360	1310	1330	1130	1070	1100	952	862	888	604	564	585
26	1320	1280	1310	1070	1040	1060	920	858	880	594	564	578
27	1310	1260	1290	1090	1050	1070	902	876	890	588	554	571
28	1310	1250	1270	1080	1050	1070	892	832	859	639	580	624
29	---	---	---	1060	1010	1040	904	870	888	699	632	661
30	---	---	---	1070	1030	1050	880	832	860	805	694	736
31	---	---	---	1040	1020	1030	---	---	---	796	697	747
MONTH	1570	1250	1430	1370	1010	1150	1180	832	981	980	554	773
	JUNE			JULY			AUGUST			SEPTEMBER		
1	795	745	775	684	592	625	508	486	496	726	652	680
2	758	679	718	647	582	609	509	486	498	732	672	698
3	892	698	752	618	525	561	501	486	494	752	720	734
4	773	693	727	529	497	510	522	482	500	756	710	728
5	795	732	771	503	489	496	562	500	527	798	712	750
6	752	699	714	504	490	497	630	555	581	780	736	751
7	740	649	684	527	482	501	655	599	626	744	720	733
8	696	557	621	523	497	506	682	626	643	770	734	749
9	692	639	659	498	484	490	710	680	700	776	752	761
10	692	655	672	488	466	476	688	636	666	862	754	826
11	660	648	653	477	459	468	664	632	644	842	708	766
12	665	643	656	476	443	461	668	642	658	760	708	738
13	665	644	654	466	435	450	678	656	666	708	566	610
14	653	635	643	465	444	452	676	660	668	---	---	---
15	641	605	625	468	452	459	678	656	669	---	---	---
16	605	585	596	538	439	477	666	634	652	---	---	---
17	600	583	591	547	494	522	646	620	632	792	764	778
18	607	594	602	525	473	496	638	614	629	822	776	800
19	613	593	603	678	503	568	632	506	582	841	808	822
20	601	572	587	698	559	613	726	605	688	844	815	831
21	572	536	553	594	515	543	689	636	663	827	803	814
22	536	518	527	517	483	495	699	674	686	852	810	828
23	537	515	522	487	462	476	730	679	704	864	842	855
24	573	524	536	494	461	476	715	654	676	913	862	876
25	582	538	563	517	484	503	658	599	635	978	909	931
26	540	521	531	529	497	510	617	574	597	965	930	945
27	521	480	503	525	488	504	619	534	574	997	959	983
28	505	478	485	492	380	418	552	518	538	1000	988	995
29	634	485	550	399	373	384	594	547	570	1000	980	993
30	632	584	603	409	386	396	614	582	598	982	952	965
31	---	---	---	494	389	466	664	602	631	---	---	---
MONTH	892	478	623	698	373	497	730	482	616	---	---	---

07119700 ARKANSAS RIVER AT CATLIN DAM NEAR FOWLER, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995												
DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	16.1	---	11.7	7.7	9.5	8.6	1.7	4.8	.3	.0	.1
2	20.5	14.2	17.0	11.3	8.6	9.7	8.4	2.4	5.1	.1	.0	.1
3	18.5	14.6	16.5	9.0	6.3	7.7	7.7	2.0	4.8	.4	.0	.1
4	19.0	15.6	16.8	8.9	6.0	7.0	8.8	4.2	6.1	.1	.0	.1
5	17.9	13.1	15.7	10.8	6.2	8.1	5.2	3.8	4.6	1.1	.0	.4
6	17.2	12.6	14.7	9.7	7.1	8.5	4.3	2.7	3.5	2.1	.0	.8
7	14.2	12.1	13.4	12.1	7.4	9.6	6.6	2.5	4.3	1.9	.0	.6
8	16.8	12.2	14.0	10.5	7.4	9.1	5.0	1.8	3.7	5.6	.8	2.9
9	17.6	10.8	14.0	10.7	6.5	8.3	1.9	.1	.7	6.5	2.0	4.0
10	18.1	11.1	14.3	10.2	5.6	7.9	1.1	.1	.3	6.4	2.0	4.0
11	18.2	11.5	14.6	10.4	6.5	8.6	2.3	.1	.8	7.2	2.4	4.5
12	17.6	11.4	14.3	12.7	9.3	10.5	2.4	.1	1.0	5.4	2.6	4.0
13	17.2	11.2	13.9	10.7	7.1	8.7	4.3	.1	1.7	6.2	.8	3.2
14	13.6	10.7	12.2	7.3	4.6	6.2	4.3	.1	1.7	6.1	.9	3.3
15	15.5	11.0	12.7	6.4	3.5	4.7	2.2	.1	.8	6.9	1.5	4.1
16	16.2	10.4	13.0	6.6	2.9	4.8	3.0	.1	1.1	6.1	3.1	4.3
17	15.2	11.6	13.1	7.0	3.6	5.6	4.4	.1	1.9	3.5	.3	2.0
18	14.9	9.8	12.2	5.8	1.6	3.6	5.5	.1	2.5	5.4	.8	2.7
19	15.3	10.8	12.9	6.4	1.3	4.0	5.6	.9	2.8	3.3	.0	1.6
20	15.3	10.1	12.6	6.5	1.3	3.9	3.6	.1	1.4	2.6	.1	1.3
21	15.2	10.3	12.6	5.6	3.4	4.2	4.9	.1	2.4	5.3	.1	2.3
22	14.7	10.4	12.3	4.6	2.5	3.7	6.0	.1	2.7	4.8	.1	2.2
23	14.9	9.1	11.8	6.0	1.1	3.2	3.8	.6	2.3	2.5	.0	.7
24	13.1	9.4	11.1	5.9	.7	3.1	7.2	2.9	4.6	2.7	.0	.9
25	13.4	7.7	10.4	7.0	2.1	4.2	6.5	2.3	4.3	5.2	.0	2.1
26	13.9	8.1	10.8	8.0	3.3	5.2	7.0	2.3	4.4	5.4	1.6	3.4
27	14.1	9.0	11.4	5.9	1.9	3.9	6.4	2.2	4.1	5.7	4.2	4.8
28	14.9	10.1	12.3	4.0	.1	1.8	5.7	1.5	3.4	6.7	4.0	5.0
29	13.3	9.3	11.1	2.0	.1	.7	4.7	1.4	3.0	6.7	2.1	4.4
30	11.6	7.7	9.5	5.7	.1	2.4	4.5	2.6	4.1	6.8	.0	2.7
31	12.3	7.3	9.6	---	---	---	2.7	.1	1.6	9.1	.6	4.3
MONTH	---	7.3	---	12.7	.1	5.9	8.8	.1	2.9	9.1	.0	2.5
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.9	2.7	6.3	1.7	.0	.3	15.4	7.9	11.5	16.1	11.3	13.6
2	11.2	3.5	6.7	2.0	.0	.4	15.4	9.1	12.2	16.2	11.7	14.1
3	9.7	2.9	5.8	8.0	.0	3.4	17.0	10.0	13.2	16.6	13.5	15.0
4	10.8	1.5	5.7	12.1	3.5	7.0	18.2	10.3	14.0	17.4	12.8	15.1
5	10.5	2.1	5.8	13.6	5.5	9.1	18.9	10.8	14.7	15.4	12.8	13.8
6	10.7	1.5	5.7	8.8	3.3	6.2	19.1	11.6	15.1	16.6	12.1	14.3
7	9.1	4.1	5.8	11.0	1.1	5.3	17.7	11.6	14.4	16.8	12.7	14.7
8	6.3	1.5	4.1	9.5	1.2	5.2	20.0	11.2	15.1	14.7	12.1	13.4
9	10.1	1.1	5.1	13.4	3.1	7.9	14.3	6.6	10.9	16.4	10.3	13.2
10	9.6	1.7	4.7	16.1	6.5	10.9	9.4	3.1	6.3	19.7	12.5	15.8
11	4.5	.1	1.4	15.4	8.5	11.8	10.9	4.8	7.7	20.9	15.1	17.7
12	1.3	.0	.4	14.9	8.1	11.2	13.9	6.7	10.2	19.6	15.4	17.5
13	.3	.0	.1	16.0	6.8	11.1	13.3	9.7	11.6	18.8	12.8	15.8
14	6.2	.1	2.1	14.9	7.6	11.2	15.9	10.1	12.6	19.3	13.4	16.3
15	7.7	.1	3.2	15.5	7.7	11.5	15.3	8.9	12.1	21.5	14.8	18.0
16	8.4	.0	3.4	16.3	8.8	12.5	18.1	10.3	13.6	22.3	16.6	18.9
17	8.8	.0	4.0	16.3	9.8	12.8	12.0	7.3	9.1	16.9	10.6	13.3
18	8.0	1.0	4.7	16.7	9.6	13.1	13.4	6.0	9.5	14.0	10.1	11.5
19	12.2	2.3	7.0	16.0	10.5	13.0	10.4	6.2	7.5	15.7	12.8	14.4
20	14.2	4.4	8.8	14.1	8.0	11.1	12.4	5.2	8.6	15.6	14.6	15.1
21	14.3	4.9	9.2	15.1	9.3	12.1	10.9	6.5	8.4	18.3	13.9	16.0
22	14.1	5.5	9.3	14.5	9.4	11.7	6.9	5.9	6.4	18.0	15.1	16.4
23	14.8	5.0	9.4	14.3	7.1	10.6	11.2	5.0	8.0	15.7	12.0	13.5
24	15.4	5.0	9.8	14.5	8.5	11.3	14.5	8.9	11.6	12.1	10.7	11.4
25	16.0	6.0	10.5	14.1	8.3	11.1	15.5	10.8	13.2	11.6	10.3	11.0
26	16.8	7.0	11.5	10.2	6.9	8.6	14.1	9.9	11.5	13.3	10.7	12.1
27	16.0	7.3	10.8	13.5	7.0	9.9	13.5	9.6	11.5	15.3	12.6	14.0
28	7.3	1.0	4.1	9.7	6.5	7.9	14.4	11.6	13.1	15.0	13.3	14.1
29	---	---	---	7.0	4.7	5.8	14.1	12.1	13.1	14.0	12.4	13.1
30	---	---	---	8.0	4.2	5.8	14.3	11.2	12.7	15.1	11.8	13.4
31	---	---	---	12.6	4.8	8.6	---	---	---	16.2	13.5	14.8
MONTH	16.8	.0	5.9	16.7	.0	9.0	20.0	3.1	11.3	22.3	10.1	14.6

07119700 ARKANSAS RIVER AT CATLIN DAM NEAR FOWLER, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	18.3	13.7	15.9	17.9	14.6	16.2	22.2	18.5	20.3	26.9	21.4	24.1
2	18.3	16.0	17.2	19.1	16.2	17.7	23.7	19.2	21.4	26.3	20.8	23.4
3	16.8	15.7	16.2	19.4	17.8	18.5	23.8	19.8	21.8	27.1	20.9	23.8
4	17.4	14.7	16.3	18.2	16.6	17.5	23.7	19.8	21.7	26.6	21.2	23.9
5	19.9	15.9	17.9	19.5	16.4	17.9	24.5	19.3	21.8	27.0	21.2	24.0
6	20.2	16.5	18.3	21.2	18.4	19.7	25.4	20.3	22.9	25.6	20.8	22.9
7	19.4	16.6	18.0	21.9	19.5	20.7	26.6	21.1	23.8	22.1	18.0	19.5
8	17.7	9.8	14.5	21.9	19.7	21.0	26.9	21.2	24.1	22.5	17.1	19.5
9	17.2	13.5	15.3	22.0	19.2	20.7	25.0	22.4	23.9	20.5	17.1	18.5
10	17.2	15.4	16.1	22.0	19.4	20.8	26.0	21.0	23.6	20.9	16.6	18.5
11	17.9	14.4	16.1	21.6	19.5	20.7	27.3	22.0	24.4	22.0	18.7	20.3
12	19.3	16.7	18.1	21.7	19.8	20.9	26.8	22.3	24.4	22.2	17.5	20.0
13	20.4	17.8	19.1	21.2	19.6	20.6	26.7	21.6	24.1	22.6	18.1	20.4
14	21.0	18.1	19.5	20.8	19.5	20.0	24.8	20.9	22.3	22.5	18.7	20.6
15	19.9	17.9	18.8	21.7	19.0	20.2	25.7	20.2	22.7	22.7	18.0	20.4
16	18.6	16.8	17.7	21.6	20.1	21.0	25.8	20.9	23.4	21.9	18.8	20.3
17	17.9	16.6	17.2	21.2	19.7	20.6	26.5	21.0	23.8	23.0	17.8	20.3
18	19.5	16.0	17.6	20.7	18.9	19.8	27.0	22.1	24.5	22.0	18.4	20.3
19	20.8	18.2	19.5	20.6	17.9	19.7	24.6	19.2	21.3	20.0	17.2	18.7
20	21.0	18.7	19.9	21.8	19.5	20.6	24.6	19.3	21.7	18.8	14.7	16.7
21	20.8	19.1	19.9	21.6	19.9	20.8	26.3	21.2	23.8	14.7	11.5	12.5
22	20.6	18.1	19.4	21.6	19.6	20.7	26.8	22.2	24.5	16.1	10.5	13.1
23	20.5	19.0	19.8	21.4	19.6	20.4	26.8	22.3	24.6	17.5	12.6	14.8
24	20.0	18.3	19.0	21.5	18.9	20.2	26.4	22.2	24.3	14.8	13.4	13.9
25	20.0	17.8	19.0	22.5	19.8	21.2	26.7	22.0	24.1	17.6	11.4	14.3
26	20.5	18.5	19.6	23.4	19.4	21.4	25.1	21.4	23.3	18.0	12.8	15.3
27	20.9	18.9	20.0	23.6	19.3	21.6	24.9	21.6	23.3	20.6	14.0	17.1
28	20.8	19.4	19.9	24.3	19.6	22.0	25.2	20.8	23.2	19.9	16.0	17.7
29	19.4	15.9	17.4	24.6	20.7	22.6	26.4	21.4	23.9	18.3	15.0	16.8
30	15.9	15.1	15.4	23.9	19.6	21.9	24.8	21.7	23.0	18.2	14.5	16.0
31	---	---	---	22.9	19.9	21.4	26.2	20.6	23.2	---	---	---
MONTH	21.0	9.8	18.0	24.6	14.6	20.3	27.3	18.5	23.2	27.1	10.5	18.9

07121500 TIMPAS CREEK AT MOUTH, NEAR SWINK, CO

LOCATION.--Lat 38°00'11", long 103°39'20", in NW¹/4SW¹/4 sec.35, T.23 S., R.56 W., Otero County, Hydrologic Unit 11020005, on left bank 40 ft shoreward, 125 ft upstream from left end of 23rd Rd. Bridge, 1.7 mi southwest of Swink, and 2.9 mi upstream from mouth.

DRAINAGE AREA.--496 mi².

PERIOD OF RECORD.--January 1922 to September 1925, March 1968 to current year.

REVISED RECORDS.--WDR CO 76-1: 1975.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,120 ft above sea level, from topographic map. Prior to May 29, 1975, at site 140 ft downstream at datum 0.13 ft, lower.

REMARKS.--Estimated daily discharges June 3-5 and July 2-5. Records good except those for periods of estimated daily discharge, which are poor. Natural flow of stream affected by minor diversions upstream from station for irrigation, water imported from Arkansas River and Crooked Arroyo for irrigation upstream from station, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1922, 21,400 ft³/s, June 17, 1965.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	92	23	16	15	43	45	124	177	138	76	83
2	48	77	22	16	15	17	42	125	162	458	75	87
3	45	87	22	16	15	17	40	109	1450	166	73	90
4	51	118	21	16	15	19	36	94	645	137	73	85
5	59	106	21	16	15	17	33	102	334	130	78	84
6	75	79	21	16	14	15	35	222	175	116	84	77
7	75	97	21	16	14	23	34	195	129	97	74	76
8	75	111	20	16	14	26	38	190	144	99	74	91
9	75	105	21	16	14	28	39	176	159	89	74	92
10	80	108	20	16	13	21	119	158	127	86	75	110
11	81	121	20	16	13	21	194	139	132	91	73	121
12	73	110	20	16	12	25	106	102	131	79	73	103
13	74	100	20	15	11	22	50	71	130	76	62	115
14	75	116	20	15	12	18	45	70	125	77	63	112
15	81	70	20	15	12	34	58	58	122	113	68	106
16	84	44	20	15	12	86	71	46	112	108	66	96
17	90	40	20	15	13	28	64	195	88	105	69	108
18	93	30	20	15	15	25	75	756	100	108	74	108
19	86	26	20	15	14	31	84	224	136	251	81	116
20	84	26	20	15	16	34	78	191	116	869	102	123
21	85	26	19	15	17	30	80	177	93	240	97	132
22	78	31	19	15	18	35	118	167	99	172	76	155
23	79	30	18	15	20	33	101	146	96	158	66	167
24	76	25	19	15	23	30	94	167	120	135	57	122
25	78	24	18	15	19	32	98	154	133	112	57	136
26	74	24	18	15	19	94	134	172	120	101	76	118
27	79	24	18	15	20	103	180	189	107	91	89	117
28	96	23	17	15	28	42	123	193	82	78	98	120
29	114	22	17	15	---	42	112	253	175	68	93	100
30	104	22	17	15	---	40	114	600	136	77	107	82
31	99	---	17	15	---	38	---	217	---	78	99	---
TOTAL	2417	1914	609	477	438	1069	2440	5782	5855	4703	2402	3232
MEAN	78.0	63.8	19.6	15.4	15.6	34.5	81.3	187	195	152	77.5	108
MAX	114	121	23	16	28	103	194	756	1450	869	107	167
MIN	45	22	17	15	11	15	33	46	82	68	57	76
AC-FT	4790	3800	1210	946	869	2120	4840	11470	11610	9330	4760	6410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1995, BY WATER YEAR (WY)

	MEAN	88.3	77.7	37.0	24.4	32.9	62.1	63.3	74.4	83.0	72.3	84.1	72.0
MAX	265	210	109	60.4	84.6	201	170	187	318	200	401	159	
(WY)	1924	1924	1971	1923	1924	1924	1924	1995	1923	1923	1923	1986	
MIN	27.4	30.4	9.80	7.87	11.4	24.8	11.0	14.0	24.5	18.1	15.8	15.7	
(WY)	1979	1992	1979	1975	1976	1981	1978	1981	1981	1974	1974	1974	

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1922 - 1995
ANNUAL TOTAL	20596	31338	
ANNUAL MEAN	56.4	85.9	64.5
HIGHEST ANNUAL MEAN			130
LOWEST ANNUAL MEAN			25.2
HIGHEST DAILY MEAN	192	Apr 12	2670
LOWEST DAILY MEAN	13	Feb 13	3.3
ANNUAL SEVEN-DAY MINIMUM	14	Feb 7	5.7
INSTANTANEOUS PEAK FLOW			a ₁ 2300
INSTANTANEOUS PEAK STAGE		16.35	Jun 3
ANNUAL RUNOFF (AC-FT)	40850	62160	b ₁ 21.11
10 PERCENT EXCEEDS	104	156	126
50 PERCENT EXCEEDS	55	75	48
90 PERCENT EXCEEDS	16	15	15

a-From rating curve extended above 250 ft³/s, on basis of contracted-opening measurement of peak flow.
b-From floodmark.

07123000 ARKANSAS RIVER AT LA JUNTA, CO

LOCATION.--Lat 37°59'26", long 103°31'55", in SE¹/4NE¹/4 sec.2, T.24 S., R.55 W., Otero County, Hydrologic Unit 11020005, on right bank at upstream side of bridge on State Highway 109 in La Junta, 450 ft upstream from King Arroyo.

DRAINAGE AREA.--12,210 mi², of which 115 mi² is probably noncontributing.

PERIOD OF RECORD.--May to August 1889, September 1893 to December 1895 (gage heights, discharge measurements, and flood data only), April to October 1903, June to November 1908 (gage heights and discharge measurements only), April 1912 to current year. Monthly discharge only for some periods, published in WSP 1311. Published as "near La Junta" in 1903. Statistical summary computed for 1975 to current year.

REVISED RECORDS.--WSP 1341: Drainage area. WSP 1731: 1922.

GAGE.--Water-stage recorder with satellite telemetry, and nonrecording gage read twice daily. Datum of gage is 4,039.60 ft above sea level. See WSP 1711 or 1731 for history of changes prior to June 13, 1940. June 13, 1940, to June 6, 1967, water-stage recorder at site 300 ft upstream at present datum.

REMARKS.--Estimated daily discharge: Jan. 1-6. Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 400,000 acres, and return flow from irrigated areas. Flow partly regulated by Pueblo Reservoir (station 07099350) since Jan. 9, 1974.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	94	116	92	83	81	26	339	2230	3260	306	128
2	39	90	117	88	84	70	23	348	2430	4040	319	138
3	40	91	106	88	83	94	21	247	3040	4410	339	181
4	280	72	104	90	79	82	24	208	5070	5040	400	170
5	237	69	96	96	78	63	36	229	3630	5410	313	142
6	246	68	95	100	79	50	46	313	3670	4980	192	107
7	110	66	93	103	76	52	43	101	3840	4730	146	114
8	258	67	91	114	74	60	43	61	4680	3520	85	194
9	364	75	90	98	73	63	38	64	4080	3080	70	194
10	299	74	89	93	74	64	65	73	5080	3070	66	360
11	238	61	90	126	71	69	41	188	5180	3300	74	109
12	283	59	97	110	64	95	28	317	4820	4120	70	102
13	317	69	99	97	71	93	42	385	4310	3700	68	127
14	303	67	95	89	72	142	31	388	3600	3760	66	114
15	329	384	101	84	71	59	109	391	3420	4270	63	81
16	330	182	107	79	66	39	152	390	3840	4420	77	96
17	395	155	108	74	75	39	153	498	3900	5050	109	146
18	415	135	100	132	86	30	309	1450	4800	4420	123	117
19	414	116	93	178	85	27	391	1810	5000	4670	114	109
20	398	134	89	176	79	32	516	1680	5070	5950	1140	119
21	418	123	89	188	72	31	426	1360	4390	4580	310	168
22	377	124	88	199	64	36	237	212	4040	4160	178	124
23	338	126	87	185	67	46	307	578	4170	4500	200	125
24	365	122	90	178	70	35	89	838	4640	4820	76	81
25	354	116	90	197	70	32	201	819	5430	4040	110	56
26	343	113	87	129	71	52	257	1160	5210	2350	135	55
27	379	106	86	98	70	42	195	1960	4590	1120	190	55
28	378	103	89	82	72	31	220	1970	4570	578	249	55
29	379	102	91	79	---	29	160	1780	5690	458	196	62
30	338	106	91	79	---	32	239	2100	4790	444	118	216
31	109	---	96	84	---	29	---	2450	---	413	121	---
TOTAL	9116	3269	2960	3605	2079	1699	4468	24707	129210	112663	6023	3845
MEAN	294	109	95.5	116	74.2	54.8	149	797	4307	3634	194	128
MAX	418	384	117	199	86	142	516	2450	5690	5950	1140	360
MIN	39	59	86	74	64	27	21	61	2230	413	63	55
AC-FT	18080	6480	5870	7150	4120	3370	8860	49010	256300	223500	11950	7630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	191	119	120	146	144	94.3	122	540	922	615	294	137										
MAX	1189	545	335	453	620	400	770	3082	4307	3634	1345	463										
(WY)	1985	1987	1987	1987	1985	1987	1987	1987	1987	1995	1984	1982										
MIN	8.82	4.21	13.5	9.50	6.37	19.6	6.67	21.9	103	80.2	66.2	9.59										
(WY)	1978	1979	1976	1976	1976	1978	1978	1981	1988	1981	1987	1977										

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1975 - 1995			
ANNUAL TOTAL	113545				303644							
ANNUAL MEAN	311				832				a288			
HIGHEST ANNUAL MEAN									832			
LOWEST ANNUAL MEAN									107			
HIGHEST DAILY MEAN	3100				Jun 4				b9790			
LOWEST DAILY MEAN	33				Mar 20				c2.5			
ANNUAL SEVEN-DAY MINIMUM	38				Mar 18				d3.0			
INSTANTANEOUS PEAK FLOW					6710				e18000			
INSTANTANEOUS PEAK STAGE					12.12				Jun 4			
ANNUAL RUNOFF (AC-FT)	225200				602300				208400			
10 PERCENT EXCEEDS	765				4040				618			
50 PERCENT EXCEEDS	132				117				106			
90 PERCENT EXCEEDS	61				55				20			

a-Average discharge for 61 years (water years 1913-73), 244 ft³/s; 176800 acre-ft/yr, prior to completion of Pueblo Dam.

b-Maximum daily discharge for period of record, 61100 ft³/s, Jun 4, 1921.

c-Minimum daily discharge for period of record, no flow, Jan 20-22 and Mar 20-22, 1915.

d-Maximum discharge and stage for period of record, 200000 ft³/s, Jun 4, 1921, gage height, 18.40 ft, site and datum then in use, from rating curve extended above 15000 ft³/s, on basis of slope-area measurement of peak flow.

e-Maximum gage height for statistical period, 12.12 ft, Jun 4, 1995.

07124000 ARKANSAS RIVER AT LAS ANIMAS, CO

LOCATION.--Lat 38°04'51", long 103°13'09", in SE¹/4NE¹/4 sec.3, T.23 S., R.52 W., Bent County, Hydrologic Unit 11020009, on right bank at upstream side of bridge on U.S. Highway 50, 1.1 mi north of courthouse in Las Animas, and 4.2 mi upstream from Purgatoire River.

DRAINAGE AREA.--14,417 mi², of which 441 mi² are probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to November 1898 (gage heights only), August to November 1909 (gage heights and discharge measurements only), May 1939 to current year. Statistical summary computed for 1975 to current year.

REVISED RECORDS.--WSP 1341: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 3,883.97 ft above sea level. May 13 to Nov. 12, 1898, and Aug. 1 to Nov. 10, 1909, nonrecording gages near present site at different datums. May 23, 1939, to Apr. 27, 1967, water-stage recorder at site 0.4 mi downstream at datum 9.00 ft lower.

REMARKS.--Estimated daily discharges: Jan. 1-5, Feb. 12-14, and Mar. 2-5. Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 412,000 acres, and return flow from irrigated areas. Flow partly regulated by Pueblo Reservoir (station 07099350) since Jan. 9, 1974.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	121	151	120	117	116	30	268	3070	3900	552	130
2	45	96	142	115	126	110	28	383	3000	3020	536	118
3	47	81	146	110	128	115	26	316	3640	4030	497	108
4	51	75	143	110	122	120	26	279	4690	4120	552	112
5	291	63	143	125	117	130	27	265	5470	4520	541	132
6	189	55	143	145	109	123	28	446	3860	4530	454	115
7	162	53	140	151	105	108	28	279	3710	4650	320	96
8	97	52	140	153	103	109	28	145	3650	4590	220	131
9	271	54	136	149	103	116	31	96	4480	3170	127	186
10	346	59	145	144	105	121	36	87	4420	2740	106	243
11	247	60	151	146	118	120	42	92	5120	2750	93	323
12	208	54	142	176	115	127	43	209	5450	3060	86	151
13	269	49	142	155	110	152	42	302	5140	3250	82	135
14	294	64	166	141	120	143	38	351	4650	3080	77	198
15	296	226	131	133	134	152	31	346	4150	3340	75	121
16	308	299	130	132	130	82	108	385	3930	3480	74	97
17	324	218	128	127	122	56	149	641	4020	3630	63	94
18	417	193	123	122	120	44	221	1390	4050	4100	64	123
19	430	179	117	203	129	39	368	2320	4510	3650	77	120
20	425	176	116	238	137	36	476	1900	4630	4800	265	113
21	378	185	117	240	130	33	572	2060	4340	5960	630	129
22	389	177	125	244	124	31	390	782	4070	4870	288	159
23	374	178	126	253	122	30	360	530	3860	4030	225	149
24	366	185	118	250	124	28	242	1080	3940	4100	189	160
25	400	187	121	271	126	28	131	1150	4200	3810	114	134
26	388	177	121	276	126	34	290	1160	4610	2230	107	120
27	387	173	120	196	126	44	229	2900	4100	1380	147	114
28	387	168	117	157	121	43	234	3050	3740	936	171	103
29	375	160	121	136	---	33	186	2650	4290	616	233	93
30	385	159	124	123	---	31	212	2830	5110	586	176	90
31	268	---	126	116	---	32	---	3000	---	584	136	---
TOTAL	8857	3976	4111	5157	3369	2486	4652	31692	127900	103512	7277	4097
MEAN	286	133	133	166	120	80.2	155	1022	4263	3339	235	137
MAX	430	299	166	276	137	152	572	3050	5470	5960	630	323
MIN	43	49	116	110	103	28	26	87	3000	584	63	90
AC-FT	17570	7890	8150	10230	6680	4930	9230	62860	253700	205300	14430	8130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	167	121	132	163	176	105	117	525	890	558	244	118										
MAX	1092	532	378	453	761	405	877	3205	4263	3339	1051	373										
(WY)	1985	1987	1987	1985	1985	1987	1987	1987	1995	1995	1984	1984										
MIN	5.13	6.05	8.40	8.45	18.5	9.44	10.8	14.1	36.4	30.5	55.2	9.12										
(WY)	1978	1975	1978	1978	1978	1975	1978	1981	1988	1981	1987	1977										

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1975 - 1995	
ANNUAL TOTAL	109106		307086			
ANNUAL MEAN	299		841		a 277	
HIGHEST ANNUAL MEAN					841 1995	
LOWEST ANNUAL MEAN					b 84.1 1976	
HIGHEST DAILY MEAN	2690	Jun 5	5960	Jul 21	b 5960 Jul 21 1995	
LOWEST DAILY MEAN	21	Mar 30	c 26	Apr 3	d 3.0 Nov 30 1974	
ANNUAL SEVEN-DAY MINIMUM	22	Mar 28	27	Apr 2	e 4.1 Sep 26 1977	
INSTANTANEOUS PEAK FLOW			6390	Jul 21	e 7150 Aug 24 1984	
INSTANTANEOUS PEAK STAGE			8.52	Jul 21	f 8.52 Jul 21 1995	
ANNUAL RUNOFF (AC-FT)	216400		609100		200500	
10 PERCENT EXCEEDS	769		3860		548	
50 PERCENT EXCEEDS	142		151		115	
90 PERCENT EXCEEDS	46		54		14	

a-Average discharge for 34 years (water years 1940-73), 203 ft³/s; 147100 acre-ft/yr, prior to completion of Pueblo Dam.

b-Maximum daily discharge for period of record, 25800 ft³/s, May 20, 1955.

c-Also occurred Apr 4.

d-Minimum daily discharge for period of record, 0.9 ft³/s, Jul 31, Aug 1 and 3, 1964.

e-Maximum discharge and stage for period of record, 44000 ft³/s, May 20, 1955, gage height, 15.03 ft, site and datum then in use, from rating curve extended above 24000 ft³/s, on basis of slope-area measurement of peak flow.

f-Maximum gage height for statistical period, 7.81 ft, May 24, 1987.

07124000 ARKANSAS RIVER AT LAS ANIMAS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1985 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1985 to current year.
 WATER TEMPERATURE: December 1985 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for daily specific conductance are fair and daily water temperature are good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 7,950 microsiemens, Jan. 22, 1986; minimum, 310 microsiemens, July 21, 1990.
 WATER TEMPERATURE: Maximum, 34.5°C, Aug. 18, 1986; minimum, 0.0°C, many days during most winters.

EXTREMES FOR 1995 WATER YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 3,340 microsiemens, Apr.9; minimum, 665 microsiemens, June 3.
 WATER TEMPERATURE: Maximum, 30.7°C, Aug.11; minimum, 0.0°C, many days during winter.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3040	2940	2990	2490	2200	2390	2530	2490	2510	2690	2600	2630
2	3000	2940	2970	2540	2480	2510	2560	2430	2510	2780	2630	2700
3	3050	2970	3020	2590	2500	2540	2540	2470	2490	2800	2530	2660
4	3030	2740	2940	2580	2520	2550	2520	2480	2510	---	---	---
5	2880	1370	1610	2800	2550	2680	2540	2510	2520	---	---	---
6	2020	1430	1770	2850	2800	2820	2570	2510	2540	---	---	---
7	2220	1450	1770	2850	2790	2830	2560	2540	2550	2440	---	---
8	2440	2220	2360	2820	2780	2800	2560	2540	2550	2460	2410	2440
9	2470	1490	1770	2820	2750	2790	2590	2560	2570	2460	2360	2410
10	1580	1500	1540	2760	2630	2690	2620	2580	2600	2540	2410	2500
11	1800	1580	1720	2700	2630	2640	2620	2590	2600	2590	2540	2570
12	1860	1800	1840	2790	2700	2750	2610	2560	2580	2570	2290	2400
13	1840	1680	1740	2890	2790	2850	2560	2480	2510	2500	2310	2420
14	1750	1680	1710	2880	2300	2670	2540	2490	2520	2540	2500	2520
15	1750	1730	1740	2390	1470	2120	2590	2530	2560	2580	2520	2550
16	1750	1720	1740	1910	1460	1630	2650	2590	2620	2600	2560	2580
17	1740	1700	1720	2220	1910	2100	2630	2570	2600	2640	2590	2610
18	1740	1510	1590	2310	2210	2250	2610	2580	2590	2620	2600	2610
19	1530	1480	1500	2370	2270	2320	2620	2590	2610	2610	1970	2290
20	1550	1490	1520	2350	2280	2330	2640	2580	2620	2040	1970	2010
21	1570	1520	1550	2380	2270	2320	2640	2630	2630	2070	1990	2040
22	1540	1460	1510	2450	2330	2390	2630	2610	2620	2060	1980	2020
23	1550	1530	1540	2530	2420	2470	2640	2600	2620	1980	1960	1970
24	1680	1550	1580	2500	2460	2470	2640	2610	2620	2030	2000	2020
25	1640	1590	1630	2500	2470	2490	2640	2610	2630	2060	1970	2020
26	1670	1630	1660	2520	2470	2490	2620	2610	2610	2100	1970	2020
27	1670	1630	1660	2520	2440	2490	2630	2590	2610	2360	2100	2260
28	1650	1560	1630	2530	2500	2510	2610	2590	2600	2460	2360	2420
29	1680	1620	1660	2550	2510	2530	2620	2570	2610	2550	2440	2500
30	1660	1650	1660	2550	2520	2540	2610	2590	2600	2570	2540	2560
31	2200	1650	1850	---	---	---	2610	2590	2600	2580	2550	2560
MONTH	3050	1370	1850	2890	1460	2500	2650	2430	2580	---	---	---

07124000 ARKANSAS RIVER AT LAS ANIMAS, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	2620	2540	2560	2480	2420	2420	3300	3190	3240	1710	1580	1670
2	2610	2580	2600	2640	2480	2560	3230	3180	3210	1580	1370	1450
3	2630	2600	2610	2560	2440	2500	3260	3180	3220	1560	1370	1490
4	2640	2610	2620	2560	---	---	3250	3200	3220	1670	1520	1590
5	2620	2590	2610	---	---	---	3270	3210	3230	1650	1570	1620
6	2600	2580	2590	2620	2570	2600	3280	3220	3250	1600	1330	1470
7	2590	2570	2580	2650	2570	2590	3300	3240	3270	1980	1420	1790
8	2600	2580	2590	2630	2580	2590	3320	3200	3300	2230	1980	2170
9	2600	2590	2590	2640	2470	2530	3340	3130	3290	2620	2220	2460
10	2610	2580	2590	2470	2420	2440	3290	3020	3160	2700	2400	2570
11	2610	2570	2590	2420	2400	2410	3280	2550	3000	2670	2340	2520
12	2700	2620	2660	2440	2360	2410	3250	2840	3100	2440	1630	1930
13	2710	2580	2640	2360	2160	2210	3300	3060	3180	1630	1580	1610
14	2700	2610	2660	2330	2240	2260	3250	2890	3080	1590	1470	1530
15	2620	2460	2550	2280	1880	2120	3280	3060	3220	1550	1480	1530
16	2610	2550	2570	2900	2200	2480	3140	1710	2170	1590	1410	1510
17	2640	2610	2630	3030	2400	2840	1820	1700	1750	1580	1410	1510
18	2640	2520	2590	3100	3010	3040	1810	1570	1720	1530	1080	1290
19	2620	2460	2510	3180	3100	3150	1570	1520	1540	1160	1010	1090
20	2470	2440	2460	3200	3160	3180	1520	1420	1480	1140	895	1030
21	2450	2420	2430	3190	3170	3180	1420	1380	1400	953	857	897
22	2480	2430	2450	3250	3180	3220	1640	1420	1540	1380	914	1180
23	2500	2450	2480	3250	3230	3240	1760	1420	1630	1580	1250	1380
24	2480	2450	2470	3250	3200	3220	2050	1430	1740	1250	1010	1120
25	2490	2430	2450	3260	3180	3230	2250	2050	2160	1060	1010	1040
26	2480	2440	2460	3110	2870	3010	2270	1460	1780	1150	1030	1090
27	2480	2450	2460	2910	2500	2710	1800	1480	1700	1060	904	947
28	2480	2440	2460	3060	2550	2800	1890	1600	1800	934	902	918
29	---	---	---	3140	3030	3070	2240	1590	1910	1020	934	977
30	---	---	---	3200	3110	3140	2220	1710	1910	1190	1010	1090
31	---	---	---	3270	3190	3220	---	---	---	1230	1090	1120
MONTH	2710	2420	2550	---	---	---	3340	1380	2470	2700	857	1470
	JUNE			JULY			AUGUST			SEPTEMBER		
1	1150	1040	1070	926	856	906	1460	1230	1340	2310	2220	2270
2	1150	1050	1100	983	854	936	1500	1400	1450	2380	2200	2330
3	1080	665	967	862	792	826	1610	1450	1530	2460	2150	2380
4	1080	775	963	823	708	778	1600	1260	1440	2430	2060	2270
5	1010	765	859	735	710	719	1470	1260	1370	2420	2080	2190
6	1090	1010	1040	730	704	718	1720	1460	1590	2600	2160	2370
7	---	---	---	747	714	730	2080	1720	1930	2770	2600	2710
8	958	865	912	803	702	744	2360	2070	2210	2820	1690	2470
9	913	834	888	804	780	794	2670	2360	2540	2100	1610	1890
10	878	780	822	792	741	766	2750	2620	2680	1880	1690	1830
11	908	783	849	793	742	768	2800	2710	2760	1970	1510	1650
12	899	817	855	742	672	705	2820	2750	2780	2740	1970	2390
13	906	830	876	704	678	694	2900	2820	2860	2740	2170	2490
14	1010	882	967	720	680	700	2940	2860	2900	2310	1880	2100
15	946	817	880	711	681	697	2910	2870	2890	2570	2100	2410
16	907	809	842	713	688	701	3010	2850	2930	2820	2540	2700
17	841	808	827	725	672	693	3140	2990	3070	2810	2680	2720
18	820	793	808	769	721	742	3150	2950	3060	2720	2120	2370
19	842	807	830	764	710	737	2990	2680	2790	2440	2320	2380
20	832	809	820	846	703	765	2750	1000	2340	2550	2340	2450
21	839	802	822	854	755	811	1240	946	1070	2560	1960	2350
22	808	741	781	865	777	826	2000	1240	1590	2310	1940	2090
23	757	720	739	780	718	746	2220	1590	1940	2350	2070	2200
24	864	726	744	719	680	698	2630	1590	2120	2270	2050	2140
25	825	749	779	742	678	709	2990	2630	2830	2390	2220	2310
26	850	825	839	843	737	794	2990	2540	2810	2470	2350	2400
27	830	783	803	952	835	894	3050	1660	2570	2490	2410	2450
28	796	743	770	1150	974	1060	2500	1700	2110	2870	2440	2630
29	792	719	770	1210	1130	1170	2060	1620	1740	3030	2830	2920
30	858	765	812	1270	1160	1220	2200	1770	1920	2980	2890	2930
31	---	---	---	1280	1210	1240	2300	2170	2240	---	---	---
MONTH	---	---	---	1280	672	816	3150	946	2240	3030	1510	2360

07124000 ARKANSAS RIVER AT LAS ANIMAS, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.6	14.0	16.7	12.9	7.1	9.8	7.4	1.9	4.6	1.9	.1	.6
2	22.3	12.1	16.5	13.6	8.7	10.7	7.7	2.7	5.1	.9	.1	.3
3	20.0	11.8	15.5	9.2	6.4	8.2	7.1	2.2	4.8	1.8	.2	.5
4	18.7	14.8	15.9	9.2	5.9	7.4	8.6	4.4	6.1	.6	.0	.2
5	19.3	14.8	16.9	12.9	5.0	8.6	5.8	3.5	4.6	.1	.0	.0
6	18.2	12.5	15.5	13.8	6.3	9.9	3.5	2.2	2.8	2.9	.0	.5
7	16.6	11.9	14.1	14.9	7.5	11.1	5.1	2.4	3.7	3.6	.0	.8
8	17.4	11.8	14.0	11.2	7.8	9.4	5.1	3.0	4.1	4.9	.1	2.2
9	15.6	10.5	12.7	12.2	6.1	8.5	4.3	.7	2.5	5.6	1.9	3.6
10	15.8	10.9	13.2	12.2	4.5	8.1	3.4	.2	1.5	6.8	2.0	4.3
11	16.7	11.0	13.6	13.3	6.0	9.7	3.8	.4	1.8	7.7	3.3	5.3
12	16.1	10.8	13.3	14.3	9.8	11.5	3.2	.1	1.7	6.3	3.5	4.9
13	15.5	11.0	13.1	12.5	7.2	9.6	4.3	.3	2.3	6.0	1.6	3.7
14	13.6	11.0	12.3	7.4	4.0	6.2	4.3	.4	2.3	5.9	.9	3.4
15	14.8	11.3	12.7	7.3	1.7	4.1	3.7	.1	1.7	7.2	1.7	4.4
16	16.0	11.4	13.4	6.5	2.3	4.6	3.8	.1	1.6	6.3	2.8	4.6
17	15.1	11.7	13.2	7.2	3.9	5.9	4.3	.1	2.1	5.2	1.1	3.4
18	13.8	10.0	11.8	5.5	1.8	3.6	5.0	.5	2.7	5.2	1.5	3.3
19	13.8	10.0	11.8	5.7	1.7	3.9	5.4	1.0	3.1	3.9	.0	2.0
20	14.1	10.1	11.9	4.8	1.4	3.6	4.6	.2	2.4	3.6	.6	2.1
21	14.0	10.2	11.9	6.1	2.4	4.1	5.1	.4	2.7	4.2	.7	2.3
22	13.7	9.9	11.7	5.0	3.1	4.2	5.5	.9	3.1	4.1	.8	2.3
23	13.7	9.5	11.5	5.6	1.1	3.3	4.8	1.1	3.0	2.7	.1	1.1
24	12.2	9.6	10.9	5.5	1.1	3.3	7.3	3.0	4.9	2.4	.1	.9
25	12.0	8.2	10.0	6.5	2.2	4.2	6.8	2.8	4.8	3.4	.1	1.5
26	12.3	7.9	10.0	7.9	3.5	5.5	6.7	2.3	4.4	3.9	1.6	2.7
27	12.8	8.6	10.6	5.9	2.4	4.3	6.3	2.0	4.2	4.7	3.9	4.3
28	14.0	9.9	11.7	4.8	.6	2.5	5.8	1.7	3.8	5.4	3.9	4.6
29	12.7	9.9	11.1	3.7	.2	1.7	5.4	2.5	3.9	6.4	3.1	4.5
30	10.2	8.9	9.5	5.4	.2	2.7	4.7	3.1	4.2	6.3	.9	3.5
31	12.1	7.5	9.5	---	---	---	3.3	.8	2.1	7.4	1.4	4.3
MONTH	22.3	7.5	12.8	14.9	.2	6.3	8.6	.1	3.3	7.7	.0	2.6
	FEBRUARY			MARCH			APRIL			MAY		
1	8.6	3.3	5.7	2.5	.1	.8	19.9	5.1	11.6	17.6	10.4	13.6
2	9.7	4.3	6.7	3.9	.0	.8	19.8	5.8	11.9	16.6	11.5	14.1
3	8.5	4.0	6.1	7.4	.1	3.3	20.9	7.0	13.2	18.5	13.3	15.2
4	8.8	2.7	5.7	9.3	4.1	6.2	22.2	6.8	13.6	19.6	12.6	15.7
5	8.5	3.3	5.9	11.8	5.1	8.0	22.6	7.7	14.5	14.9	12.6	13.4
6	8.7	2.9	5.9	7.4	1.9	4.8	23.0	8.3	14.7	17.2	11.8	14.4
7	8.5	4.7	6.4	8.2	.1	3.7	22.1	8.3	14.7	20.4	13.8	16.5
8	6.2	2.9	4.8	9.4	1.5	5.1	23.6	8.4	15.0	17.0	12.3	14.7
9	8.3	2.5	5.3	11.7	3.1	7.3	17.0	5.8	11.3	18.9	10.1	13.8
10	8.1	2.7	5.0	14.7	5.6	10.0	13.6	2.5	7.2	21.2	10.4	15.1
11	3.4	.1	1.9	15.5	7.8	11.6	14.9	2.2	7.8	23.2	13.5	18.2
12	.6	.1	.2	14.3	8.6	11.2	20.5	3.5	11.2	21.3	15.1	18.1
13	.2	.1	.1	14.8	7.6	11.0	19.0	6.7	12.4	19.4	14.2	16.6
14	5.4	.1	2.3	14.5	7.2	10.6	19.1	7.8	12.7	19.6	13.8	16.5
15	5.2	1.1	3.0	15.3	7.5	11.1	17.7	6.8	11.8	21.1	15.0	17.9
16	6.8	.4	3.5	15.9	7.4	11.3	17.9	7.9	12.3	23.0	16.9	19.4
17	8.4	1.1	4.6	19.1	8.2	12.4	11.2	8.2	9.9	17.1	11.7	14.6
18	8.1	2.2	5.2	19.2	7.6	12.9	14.8	6.5	10.2	14.6	10.0	12.4
19	10.3	3.8	7.0	17.4	8.0	11.7	10.2	6.7	8.2	16.6	13.7	15.0
20	12.1	5.0	8.4	18.2	5.9	11.6	12.0	5.4	8.5	16.6	14.6	15.7
21	12.5	5.9	9.1	18.7	7.3	12.5	10.1	7.7	8.9	18.0	14.0	16.3
22	11.9	6.1	8.7	16.8	8.3	11.9	7.7	6.1	6.9	20.9	17.0	18.5
23	12.1	5.3	8.6	17.9	5.0	10.5	11.7	4.8	8.1	17.2	12.8	14.6
24	12.8	5.4	9.0	18.7	6.6	12.1	15.9	8.6	11.7	13.1	11.9	12.4
25	13.6	6.4	9.9	17.8	7.7	11.6	18.6	9.5	13.7	12.3	11.7	11.9
26	13.8	6.8	10.2	14.3	3.2	8.0	13.2	9.7	10.9	15.9	11.9	13.6
27	12.3	6.8	9.3	17.0	5.0	10.3	15.8	8.4	11.9	15.3	13.5	14.4
28	6.8	1.8	4.6	10.0	6.2	7.9	16.9	11.4	13.8	15.3	14.0	14.7
29	---	---	---	7.1	4.1	5.6	16.3	12.0	13.7	15.2	13.2	14.3
30	---	---	---	10.5	4.0	6.3	15.6	11.2	13.1	15.2	12.6	13.8
31	---	---	---	17.3	2.7	9.3	---	---	---	17.0	14.4	15.6
MONTH	13.8	.1	5.8	19.2	.0	8.8	23.6	2.2	11.5	23.2	10.0	15.2

07124000 ARKANSAS RIVER AT LAS ANIMAS, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.3	14.5	17.0	18.6	15.9	17.3	23.7	19.4	21.3	28.6	19.4	23.5
2	19.2	17.3	18.0	19.8	17.4	18.7	25.3	19.8	22.3	28.3	19.0	23.1
3	17.8	13.1	16.4	20.6	18.7	19.7	26.2	20.6	23.0	29.0	18.9	23.6
4	16.9	13.8	15.7	20.3	18.5	19.4	25.7	21.2	23.2	28.8	19.8	23.9
5	20.3	15.3	17.6	20.7	18.0	19.5	26.4	21.0	23.3	28.4	19.4	23.5
6	21.2	18.7	20.1	22.2	19.3	20.8	27.4	20.2	23.8	27.8	19.4	22.9
7	21.1	19.1	20.2	23.9	21.0	22.5	28.2	20.9	24.2	21.4	17.1	18.4
8	20.4	15.6	18.3	24.2	21.9	23.3	29.7	20.2	24.6	24.4	15.8	19.5
9	17.7	14.6	16.2	24.3	22.4	23.5	28.3	20.7	24.1	19.6	16.4	18.1
10	17.5	16.2	16.7	24.4	22.1	23.5	29.5	19.3	24.1	20.9	16.3	18.2
11	19.1	15.9	17.4	24.4	22.4	23.4	30.7	19.5	24.6	23.4	18.3	20.2
12	21.3	17.1	19.1	23.8	21.9	23.0	30.1	19.7	24.2	24.4	16.1	19.8
13	22.7	19.5	21.2	23.8	21.8	22.8	29.8	19.5	24.2	25.3	15.7	20.1
14	23.3	20.9	22.3	23.6	22.0	22.7	---	18.5	---	23.9	17.5	20.5
15	22.9	21.2	22.2	23.3	21.4	22.5	29.4	---	---	24.1	16.6	20.1
16	21.9	20.1	21.0	23.6	21.8	22.8	29.4	18.8	23.7	23.1	16.7	19.5
17	20.8	19.3	19.9	23.4	22.4	22.8	30.4	19.1	24.2	25.1	15.7	19.7
18	20.4	18.4	19.4	22.6	21.1	21.8	30.2	19.7	24.6	23.9	16.9	19.9
19	21.9	18.8	20.4	22.6	21.1	21.8	23.4	18.6	20.7	19.8	15.5	17.8
20	22.8	20.4	21.8	22.9	20.7	22.0	29.0	17.7	22.6	20.9	12.9	16.1
21	22.6	21.0	21.8	23.0	20.8	22.1	26.6	22.1	24.1	12.9	10.0	11.0
22	22.2	19.8	21.2	23.3	20.9	22.3	29.2	22.4	25.2	16.6	8.5	12.1
23	22.2	20.6	21.6	23.2	21.2	22.3	28.7	20.7	24.4	18.0	10.2	13.7
24	21.6	20.1	21.0	22.9	20.1	22.0	29.4	21.2	24.8	14.1	12.2	13.1
25	21.8	19.6	20.8	23.3	21.1	22.4	29.8	19.5	24.0	19.0	10.3	14.1
26	22.6	20.2	21.5	23.9	21.5	22.9	28.7	19.7	23.3	19.2	11.0	14.5
27	23.1	20.7	22.1	24.4	21.9	23.2	28.8	19.6	23.8	21.4	11.7	16.1
28	22.9	21.2	22.1	25.8	22.1	23.7	29.6	21.4	24.9	20.9	14.1	17.0
29	21.3	18.4	19.9	26.2	22.7	24.2	29.1	22.4	25.3	19.9	13.5	16.5
30	18.4	16.7	17.4	25.8	21.6	23.5	26.3	21.5	23.9	19.7	13.1	15.9
31	---	---	---	23.2	20.5	22.1	28.2	19.3	23.3	---	---	---
MONTH	23.3	13.1	19.7	26.2	15.9	22.1	---	---	---	29.0	8.5	18.4

07124200 PURGATOIRE RIVER AT MADRID, CO

LOCATION.--Lat 37°07'46", long 104°38'20", in SW¹/4NE¹/4 sec.35, T.33 S., R.65 W., Las Animas County, Hydrologic Unit 11020010, on left bank 70 ft downstream from county bridge, 0.3 mi northeast of Madrid, and 1.0 mi downstream from Burro Canyon.

DRAINAGE AREA.--505 mi².

PERIOD OF RECORD.--March 1972 to current year. Water-quality data available October 1978 to September 1981.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,261.61 ft above sea level, (U.S. Army, Corps of Engineers bench mark).

REMARKS.--Estimated daily discharges: Nov. 16, Nov. 18 to Feb. 6, Feb. 9-18, and Mar. 1-3, 7-9. Records good except those above 800 ft³/s, and estimated daily discharges, which are fair. Diversions for irrigation of about 6,000 acres upstream from station. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	26	21	20	20	15	24	65	165	498	136	84
2	29	26	21	19	19	15	24	62	184	447	107	78
3	27	26	22	19	19	16	23	76	233	431	100	77
4	29	31	24	18	18	22	22	77	218	477	113	72
5	33	29	23	20	18	18	21	79	218	402	108	66
6	37	25	21	21	17	19	20	87	262	339	93	62
7	34	26	22	21	16	19	21	77	280	321	88	69
8	43	26	21	22	15	18	22	69	281	319	130	156
9	42	26	21	22	15	18	23	64	287	294	90	105
10	36	26	22	22	16	21	29	58	274	284	82	355
11	34	25	22	21	16	19	26	65	261	276	87	107
12	33	25	23	22	14	21	29	66	264	255	93	84
13	30	27	24	22	15	20	35	67	295	241	95	79
14	28	24	23	22	15	19	30	60	331	234	84	75
15	35	22	24	23	16	19	27	64	406	306	94	73
16	39	21	24	22	17	19	27	85	403	286	78	67
17	44	22	25	20	18	21	26	118	417	278	74	64
18	39	21	24	19	17	22	25	119	640	342	68	61
19	33	23	24	18	18	21	28	102	650	322	71	63
20	29	22	25	18	16	21	30	93	621	292	125	64
21	29	22	25	17	16	20	28	112	566	286	114	61
22	29	24	26	18	17	20	32	140	489	259	96	66
23	28	26	25	20	16	20	27	173	474	238	94	69
24	28	26	25	21	16	21	31	176	418	215	86	67
25	28	27	26	21	16	20	39	158	374	185	117	105
26	28	28	25	20	17	20	52	140	316	163	110	77
27	27	23	24	20	17	18	47	135	300	150	113	65
28	27	21	24	19	16	22	51	139	291	141	189	62
29	27	16	23	19	---	20	56	242	351	135	107	68
30	27	19	21	20	---	18	59	217	778	124	94	69
31	27	---	20	21	---	18	---	172	---	114	90	---
TOTAL	988	731	720	627	466	600	934	3357	11047	8654	3126	2570
MEAN	31.9	24.4	23.2	20.2	16.6	19.4	31.1	108	368	279	101	85.7
MAX	44	31	26	23	20	22	59	242	778	498	189	355
MIN	27	16	20	17	14	15	20	58	165	114	68	61
AC-FT	1960	1450	1430	1240	924	1190	1850	6660	21910	17170	6200	5100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1995, BY WATER YEAR (WY)

MEAN	29.2	24.5	21.0	18.3	19.6	20.6	47.5	136	208	132	115	58.1
MAX	78.5	37.7	40.3	36.6	37.2	55.9	203	413	589	313	342	232
(WY)	1983	1983	1984	1984	1983	1987	1987	1980	1983	1983	1981	1981
MIN	9.89	12.7	8.47	7.60	5.80	9.72	12.4	26.6	34.8	18.6	18.9	11.0
(WY)	1973	1977	1977	1973	1977	1979	1981	1981	1972	1972	1972	1978

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1972 - 1995

ANNUAL TOTAL	36532	33820	
ANNUAL MEAN	100	92.7	71.4
HIGHEST ANNUAL MEAN			145
LOWEST ANNUAL MEAN			21.6
HIGHEST DAILY MEAN	953	May 13	778 Jun 30
LOWEST DAILY MEAN	10	Jan 31	14 Feb 12
ANNUAL SEVEN-DAY MINIMUM	11	Jan 28	15 Feb 8
INSTANTANEOUS PEAK FLOW			2870 Jun 23
INSTANTANEOUS PEAK STAGE			5.83 Jun 23
ANNUAL RUNOFF (AC-FT)	72460	67080	51740
10 PERCENT EXCEEDS	334	282	184
50 PERCENT EXCEEDS	39	29	30
90 PERCENT EXCEEDS	18	18	12

a-Also occurred Feb 24 to Mar 2, 1977.

b-From rating curve extended above 300 ft³/s, on basis of drift-timed measurement, and slope-area measurements of peak flow.

c-From floodmarks.

07124400 TRINIDAD LAKE NEAR TRINIDAD, CO

LOCATION.--Lat 37°08'27", long 104°33'03", in NE¹/4SW¹/4 sec.27, T.33 S., R.64 W., Las Animas County, Hydrologic Unit 11020010, in valve house near center of dam on Purgatoire River and 3.2 mi southwest of courthouse in Trinidad.

DRAINAGE AREA.--672 mi².

PERIOD OF RECORD.--August 1977 to current year.

REVISED RECORDS.--WDR CO-78-1: 1977(M). WDR CO-83-1: 1981-82 (contents). WDR CO-89-1: 1988 (contents).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,073.64 ft above sea level, (levels by U.S. Army, Corps of Engineers).

REMARKS.--No estimated midnight contents. Records good. Reservoir is formed by a rock and earthfill dam completed in 1977. Storage began Aug. 19, 1977. Reservoir area-capacity tables were revised beginning Nov. 1, 1994 after a resurvey by the Corp of Engineers. Total capacity, 184,000 acre-ft, at elevation 6,285.00 ft. Elevation of high crest of spillway, 6,258 ft, with capacity of 120,400 acre-ft. Elevation of notch crest in spillway is 6,243.0 ft, capacity, 92,580 acre-ft. Permanent pool is 4,112 acre-ft at elevation 6,143.1 ft. Elevation of outlet invert is 6,095.0 ft. Reservoir is used for flood control, storage for irrigation, and to help control sedimentation. Figures given are total contents.

COOPERATION.--Capacity tables provided by U.S. Army, Corps of Engineers.

EXTREMES (AT 2400) FOR PERIOD OF RECORD.--Maximum contents, 61,800 acre-ft, Apr. 26, 1983, elevation, 6222.66 ft; no contents prior to Aug. 19, 1977.

EXTREMES (AT 2400) FOR CURRENT YEAR.--Maximum contents, 38,700 acre-ft, July 23-25, maximum elevation, 6,201.83 ft, July 24; minimum contents, 10,400 acre-ft, Nov. 1-2, minimum elevation, 6,160.13 ft, Oct. 13.

Capacity table (elevation, in feet, and contents, in acre-feet, effective Nov. 1, 1994)

6,160.0	10,080	6,185.0	24,530
6,165.0	12,360	6,190.0	28,370
6,170.0	14,940	6,195.0	32,550
6,175.0	17,800	6,200.0	37,010
6,180.0	21,000	6,205.0	41,820

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11000	10400	12000	13400	14200	15100	16300	17400	15700	30500	36900	25300
2	10900	10400	12000	13400	14200	15100	16300	17500	16100	31800	36600	24900
3	10900	10500	12100	13400	14200	15200	16300	17600	16700	33000	36200	24500
4	10900	10500	12200	13500	14300	15200	16300	17700	17100	33900	35800	24200
5	10900	10600	12200	13500	14300	15300	16300	17800	17500	34700	35400	23800
6	10900	10700	12300	13500	14300	15300	16300	17900	17800	35400	34900	23400
7	10800	10700	12300	13500	14400	15300	16300	17900	18200	35900	34500	23100
8	10800	10800	12400	13500	14400	15400	16200	18000	18600	36400	34100	23000
9	10800	10800	12400	13500	14400	15400	16200	18000	18900	36900	33700	22700
10	10700	10900	12400	13500	14500	15400	16300	18000	19200	37200	33300	23000
11	10700	10900	12500	13500	14500	15500	16400	18100	19400	37400	32900	22800
12	10600	11000	12500	13400	14500	15500	16400	18000	19700	37500	32600	22600
13	10600	11000	12600	13400	14600	15600	16500	17700	19800	37600	32200	22600
14	10600	11100	12600	13500	14600	15600	16500	17400	20100	37700	31900	22600
15	10600	11100	12600	13500	14700	15600	16500	17000	20400	37900	31600	22600
16	10600	11200	12700	13600	14700	15700	16500	16600	20800	38000	31100	22600
17	10700	11200	12700	13600	14700	15700	16500	16400	21300	38000	30700	22600
18	10700	11300	12800	13600	14800	15800	16500	16200	22000	38000	30300	22600
19	10800	11300	12800	13600	14800	15800	16500	15900	22800	38000	29900	22700
20	10800	11400	12900	13700	14800	15800	16600	15700	23600	38100	29600	22600
21	10900	11500	12900	13700	14900	15900	16600	15400	24300	38400	29300	22600
22	10900	11500	12900	13700	14900	15900	16700	15200	24900	38600	28900	22600
23	10900	11600	13000	13800	14900	15900	16700	15000	25500	38700	28600	22600
24	11000	11600	13100	13800	15000	16000	16800	14800	26000	38700	28100	22600
25	11000	11700	13100	13900	15000	16000	16800	14600	26400	38700	27800	22700
26	11100	11800	13100	13900	15000	16000	16900	14300	26800	38600	27400	22700
27	11100	11800	13200	13900	15000	16100	17000	14000	27200	38400	27000	22600
28	11000	11800	13200	14000	15100	16100	17100	13700	27400	38300	26700	22600
29	11000	11800	13300	14000	---	16200	17200	14200	27900	38000	26400	22600
30	10800	11900	13300	14100	---	16200	17300	14900	29300	37600	26000	22600
31	10500	---	13300	14100	---	16300	---	15300	---	37200	25600	---
MAX	11100	11900	13300	14100	15100	16300	17300	18100	29300	38700	36900	25300
MIN	10500	10400	12000	13400	14200	15100	16200	13700	15700	30500	25600	22600

07124410 PURGATOIRE RIVER BELOW TRINIDAD LAKE, CO

LOCATION.--Lat 37°08'37", long 104°32'49", in NE¹/4SW¹/4 sec.27, T.33 S., R.64 W., Las Animas County, Hydrologic Unit 11020010, on left bank of flip bucket outlet, 500 ft downstream from base of dam, 0.8 mi upstream from Santa Fe Railroad bridge, and 3.0 mi southwest of courthouse in Trinidad.

DRAINAGE AREA.--672 mi².

PERIOD OF RECORD.--December 1976 to current year. Water-quality data available, March 1977 to September 1984.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Datum of gage is 6,073.64 ft above sea level, (levels by U.S. Army, Corps of Engineers). Auxillary gage is water-stage recorder in shelter about 1,000 ft downstream.

REMARKS.--No estimated daily discharges. Records good except those below 0.5 ft³/s, which are fair. Natural flow of stream affected by diversions upstream from station for irrigation of about 6,000 acres. Flow since Aug. 19, 1977, completely regulated by Trinidad Lake (station 07124400) immediately upstream. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	65	.00	.02	.11	.19	13	9.0	.06	.94	290	245
2	35	.03	.00	.02	.11	.18	19	16	.06	.87	272	246
3	29	.03	.00	.01	.11	.15	24	21	.06	.86	282	245
4	25	.02	.00	.00	.09	.10	28	21	.05	.86	292	245
5	25	.01	.00	.01	.09	.07	28	33	52	.80	290	244
6	41	.01	.00	13	.54	.06	28	39	103	.82	300	243
7	49	.01	.00	30	.08	.05	28	39	105	39	305	243
8	49	.01	.00	30	.06	.04	28	39	124	60	304	242
9	49	.01	.00	12	.03	.04	28	40	134	61	304	242
10	49	.01	.00	25	.03	.04	9.6	42	147	133	274	212
11	49	.01	.00	41	.04	.03	.25	45	144	186	254	235
12	49	.00	.00	41	.03	.02	.35	120	152	186	254	159
13	35	.00	.00	15	.03	.03	10	195	214	190	253	87
14	27	.01	.01	.11	.02	.03	23	212	240	193	253	67
15	27	.00	.03	.11	.02	.04	22	240	241	207	270	59
16	8.2	.00	.00	.11	.02	.04	18	254	245	242	279	59
17	.25	.00	.00	.08	.00	.03	16	234	233	315	279	60
18	.19	.00	.00	.08	.00	.02	16	223	226	323	272	61
19	.16	.00	.00	.08	.00	.02	16	221	228	317	268	61
20	.11	.00	.00	.08	.00	.02	15	221	230	245	267	74
21	.08	.01	.00	.08	.25	.02	15	220	231	117	267	82
22	.08	.01	.00	.08	.36	.01	14	255	206	166	267	66
23	.07	.07	.00	.07	.33	.01	14	275	193	166	267	58
24	.10	.00	.00	.06	.29	.01	12	274	195	192	290	58
25	.04	.00	.00	.06	.27	.02	11	274	195	206	301	72
26	.03	.00	.00	.06	.24	.02	10	273	196	206	299	104
27	16	.00	.00	.13	.33	.02	10	272	167	206	298	116
28	27	.01	.00	.11	.22	.02	10	261	218	206	297	87
29	50	.20	.00	.09	---	.03	10	94	157	253	296	70
30	94	.00	.00	.12	---	.04	9.4	.13	62	285	296	70
31	166	---	.00	.12	---	.04	---	.09	---	290	263	---
TOTAL	935.31	65.46	0.04	208.69	3.70	1.44	485.60	4462.22	4638.23	4995.15	8703	4112
MEAN	30.2	2.18	.001	6.73	.13	.046	16.2	144	155	161	281	137
MAX	166	65	.03	41	.54	.19	28	275	245	323	305	246
MIN	.03	.00	.00	.00	.00	.01	.25	.09	.05	.80	253	58
AC-FT	1860	130	.08	414	7.3	2.9	963	8850	9200	9910	17260	8160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1995, BY WATER YEAR (WY)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	24.6	7.24	2.58	3.04	3.57	3.75	31.2	168	207	181	157	114							
MAX	96.0	25.9	11.9	14.7	13.1	17.8	91.7	375	614	306	285	283							
(WY)	1984	1984	1979	1977	1977	1977	1982	1994	1983	1983	1991	1984							
MIN	.35	.015	.001	.012	.056	.007	.073	25.5	51.5	40.5	36.1	5.15							
(WY)	1989	1982	1995	1985	1984	1982	1984	1980	1977	1977	1977	1987							

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1977 - 1995

ANNUAL TOTAL	40055.23	28610.84	
ANNUAL MEAN	110	78.4	78.4
HIGHEST ANNUAL MEAN			146
LOWEST ANNUAL MEAN			42.8
HIGHEST DAILY MEAN	763	323	917
LOWEST DAILY MEAN	a .00	a .00	b .00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		344	963
INSTANTANEOUS PEAK STAGE		6.63	7.89
ANNUAL RUNOFF (AC-FT)	79450	56750	56770
10 PERCENT EXCEEDS	325	265	246
50 PERCENT EXCEEDS	18	15	12
90 PERCENT EXCEEDS	.00	.00	.04

a-No flow many days during winter.
b-No flow at times most years.

07126140 VAN BREMER ARROYO NEAR TYRONE, CO

LOCATION.--Lat 37°23'58", long 104°06'55", in SW¹/4SW¹/4, sec.27, T.30 S., R. 60 W., Las Animas County, Hydrologic Unit 11020010, on left bank, on Pinon Canyon Army Maneuver Site, 200 ft downstream from military road at gas line crossing near Brown Sheep Camp, 6 mi southeast of Tyrone, and 11 mi upstream from mouth.

DRAINAGE AREA.--132 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1985 to current year.

GAGE.--Water-stage recorder with satellite telemetry, crest-stage gage, and artificial control. Elevation of gage is 5,310 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Feb. 9 to Mar. 10. Records fair except those for daily discharges greater than 50 ft³/s, which are poor. Natural flow affected by return flow from irrigation and storage in a small channel reservoir upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.78	.00	.02	.00	.00	.00	.00	.00	3.1	6.1	.00	3.5
2	1.2	.00	.01	.00	.00	.00	.00	.00	.83	6.4	.00	4.5
3	1.2	.00	.00	.00	.00	.00	.00	.00	.32	1.0	.00	4.4
4	1.5	.00	.00	.00	.00	.00	.00	.00	.14	.26	.00	5.3
5	1.7	.00	.00	.00	.00	.00	.00	.09	.05	.05	.00	6.8
6	.51	.00	.00	.00	.00	.00	.00	5.2	.01	.00	.00	5.6
7	.15	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	9.8
8	.55	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.0
9	1.0	.00	.00	.00	.00	.00	.00	.00	.00	.32	.00	39
10	.57	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	90
11	.08	.00	.00	.00	.00	.00	.00	.01	3.1	.00	.00	31
12	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00	9.5
13	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.17	8.5
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	6.4
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.36	7.8
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	8.2
17	.01	.00	.00	.00	.00	.00	.00	7.8	.00	.00	.00	7.1
18	.00	.00	.00	.00	.00	.00	.00	3.5	.00	.08	.00	7.8
19	.00	.00	.00	.00	.00	.00	.00	.86	.00	.22	.00	6.0
20	.00	.00	.00	.00	.00	.00	.00	.45	.00	.00	.00	3.9
21	.00	.02	.00	.00	.00	.00	.00	.47	.00	.00	.00	2.9
22	.00	.00	.00	.00	.00	.00	.00	.19	.00	.00	.00	3.4
23	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	2.3
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.0
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.94
26	.00	.13	.00	.00	.00	.00	.00	.00	.00	.00	1.1	.74
27	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	1.9	.43
28	.00	.00	.00	.00	.00	.00	.00	.00	.81	.00	3.5	.59
29	.00	.00	.00	.00	---	.00	.00	11	2.5	.00	3.0	3.8
30	.00	.00	.00	.00	---	.00	.00	29	3.5	.00	3.4	9.0
31	.00	---	.00	.00	---	.00	---	13	---	.00	4.3	---
TOTAL	9.25	0.16	0.04	0.00	0.00	0.00	0.00	71.72	14.50	14.45	17.89	299.20
MEAN	.30	.005	.001	.000	.000	.000	.000	2.31	.48	.47	.58	9.97
MAX	1.7	.13	.02	.00	.00	.00	.00	.29	3.5	6.4	4.3	.90
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.43
AC-FT	18	.3	.08	.00	.00	.00	.00	142	29	29	35	593

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1995, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	2.07	.047	.023	.025	.049	.004	.013	1.06	1.73	.65	2.31	3.04
MAX	17.3	.23	.11	.16	.48	.035	.10	5.11	7.44	2.74	8.30	10.3
(WY)	1986	1986	1987	1987	1987	1987	1986	1987	1985	1990	1986	1988
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.015	.004	.000
(WY)	1990	1990	1990	1989	1989	1989	1989	1990	1990	1993	1985	1991

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1985 - 1995
ANNUAL TOTAL	113.60	427.21	
ANNUAL MEAN	.31	1.17	.86
HIGHEST ANNUAL MEAN			2.53
LOWEST ANNUAL MEAN			.049
HIGHEST DAILY MEAN	6.2 Aug 31	90 Sep 10	171 Aug 23 1986
LOWEST DAILY MEAN	a .00 Jan 1	a .00 Oct 12	a .00 Jul 27 1985
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	d .00 Oct 18	b .00 Aug 5 1985
INSTANTANEOUS PEAK FLOW		d 324 Sep 9	b 511 Aug 23 1986
INSTANTANEOUS PEAK STAGE		11.58 Sep 9	c 10.02 Aug 23 1986
ANNUAL RUNOFF (AC-FT)	225	847	621
10 PERCENT EXCEEDS	1.2	3.1	1.8
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

a-No flow many days most years.

b-From rating curve extended above 45 ft³/s, on basis of flow through culvert computation.

c-Maximum gage height, 11.58 ft, Sep 9, 1995.

d-From rating curve extended above 14 ft³/s, on basis of flow through culvert computation.

07126140 VAN BREMER ARROYO NEAR TYRONE, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.9	13.0	19.1	21.8	13.3	16.5	---	---	---	25.8	19.0	22.4
2	21.0	16.1	18.8	23.9	13.3	18.5	---	---	---	25.4	19.0	22.3
3	23.7	14.5	17.6	21.9	16.1	18.9	---	---	---	25.8	18.9	22.3
4	24.0	13.2	18.0	23.6	13.5	17.5	---	---	---	25.8	19.1	22.5
5	27.1	13.6	19.5	28.8	12.3	---	---	---	---	25.3	18.9	22.2
6	22.2	14.6	---	---	---	---	---	---	---	22.6	18.7	20.8
7	---	---	---	---	---	---	---	---	---	19.8	17.1	18.1
8	---	---	---	---	---	---	---	---	---	21.8	16.3	18.8
9	---	---	---	29.0	17.2	---	---	---	---	20.8	14.7	18.5
10	---	---	---	23.0	17.1	---	---	---	---	24.7	14.9	19.4
11	---	9.1	---	---	---	---	---	---	---	24.4	16.1	19.8
12	25.8	14.6	20.1	---	---	---	---	---	---	23.3	15.2	19.0
13	21.0	16.0	---	---	---	---	27.2	18.3	---	23.7	15.3	19.3
14	---	---	---	---	---	---	27.3	19.0	---	20.3	15.6	18.0
15	---	---	---	---	---	---	27.5	19.4	---	20.9	14.3	17.5
16	---	---	---	---	---	---	---	---	---	20.5	16.1	18.2
17	---	---	---	---	---	---	---	---	---	22.3	14.2	18.1
18	---	---	---	19.3	18.7	---	---	---	---	20.3	15.3	18.0
19	---	---	---	28.0	17.4	---	---	---	---	17.4	15.3	16.4
20	---	---	---	---	---	---	---	---	---	16.7	12.7	14.7
21	---	---	---	---	---	---	---	---	---	13.0	7.6	8.9
22	---	---	---	---	---	---	---	---	---	14.4	6.1	10.1
23	---	---	---	---	---	---	---	---	---	15.6	8.7	12.5
24	---	---	---	---	---	---	---	---	---	13.3	10.9	11.7
25	---	---	---	---	---	---	---	---	---	15.5	8.7	12.3
26	---	---	---	---	---	---	23.8	18.6	---	17.2	11.1	14.1
27	---	---	---	---	---	---	25.0	19.3	22.2	19.9	11.6	15.4
28	19.3	11.1	---	---	---	---	25.3	19.8	22.7	18.3	13.3	15.3
29	17.4	11.1	14.9	---	---	---	25.9	19.6	22.7	18.0	11.8	14.7
30	17.1	13.9	15.5	---	---	---	23.6	19.3	21.3	17.5	9.8	13.5
31	---	---	---	---	---	---	25.4	18.5	22.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	25.8	6.1	17.2

07126140 VAN BREMER ARROYO NEAR TYRONE, CO--Continued

PRECIPITATION RECORDS

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

GAGE.--Tipping-bucket rain gage and electronic-data logger. Elevation of gage is 5,310 ft above sea level, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall during period of seasonal operation, 3.00 inches, Sept. 9, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall during period of seasonal operation, 3.00 inches, Sept. 9.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	---	.00	.00	.45	.00	.00
2	.00	.00	---	---	---	---	---	.00	.00	.00	.00	.00
3	.00	.00	---	---	---	---	---	.00	.09	.02	.00	.00
4	.00	.02	---	---	---	---	---	.00	.10	.00	.08	.00
5	.11	.00	---	---	---	---	---	1.43	.00	.00	.00	.00
6	.00	.00	---	---	---	---	---	.00	.00	.00	.00	.23
7	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.15
8	.12	.00	---	---	---	---	.00	.37	.00	.00	.00	.07
9	.00	.00	---	---	---	---	.12	.00	.00	.00	.00	3.00
10	.00	.00	---	---	---	---	.17	.33	.02	.00	.00	.03
11	.00	.12	---	---	---	---	.01	.06	.00	.00	.06	.01
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
13	.00	.00	---	---	---	---	.00	.00	.00	.05	.00	.00
14	.00	.00	---	---	---	---	.00	.00	.00	.02	.07	.00
15	.04	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
16	.00	.00	---	---	---	---	.00	.00	.12	.15	.00	.00
17	.26	.00	---	---	---	---	.00	1.16	.07	.48	.00	.00
18	.00	.00	---	---	---	---	.00	.00	.00	.66	.00	.01
19	.00	.00	---	---	---	---	.10	.00	.00	.00	.15	.00
20	.00	.16	---	---	---	---	.00	.07	.00	.00	.00	.02
21	.00	.00	---	---	---	---	.07	.00	.00	.23	.00	.14
22	.00	.00	---	---	---	---	.42	.00	.00	.00	.32	.00
23	.00	.00	---	---	---	---	.00	.06	.00	.00	.00	.00
24	.00	.00	---	---	---	---	.01	.05	.04	.00	.00	.29
25	.00	.00	---	---	---	---	.00	.00	.06	.00	.00	.02
26	.00	.00	---	---	---	---	.04	.11	.02	.00	.00	.00
27	.00	.00	---	---	---	---	.00	.07	.00	.00	.00	.00
28	.00	.00	---	---	---	---	.00	.22	.72	.00	.00	.01
29	.00	.00	---	---	---	---	.00	1.79	.10	.00	.00	.00
30	.12	---	---	---	---	---	.00	.08	.32	.00	.00	.00
31	.00	---	---	---	---	---	---	.00	---	.00	.00	---
TOTAL	0.65	---	---	---	---	---	---	5.80	1.66	2.06	0.68	3.98

07126200 VAN BREMER ARROYO NEAR MODEL, CO

LOCATION.--Lat 37°20'45", long 103°57'27", in sec.13, T.31 S., R.59 W., Las Animas County, Hydrologic Unit 11020010, on right bank 3 mi upstream from mouth, 16 mi east of Model, and 33 mi northeast of Trinidad.

DRAINAGE AREA.--175 mi² of which 11.8 mi² is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1966 to current year.

REVISIONS.--WDR CO-84-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 4,960 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Apr. 12, 13. Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.12	.16	.14	.15	.17	.16	.14	6.0	1.9	.12	.14
2	.08	.10	.16	.13	.14	.17	.16	.14	2.1	10	.24	.14
3	.08	.10	.14	.14	.14	.17	.14	.14	1.1	4.4	.13	.14
4	.08	.11	.14	.14	.14	.17	.14	.14	.65	1.2	.10	.14
5	.08	.11	.14	.14	.12	.17	.14	.28	.56	.44	.11	.15
6	.08	.10	.14	.14	.14	.17	.12	31	.38	.30	.10	1.5
7	.08	.10	.15	.14	.14	.17	.14	3.4	.25	.23	.10	2.6
8	.09	.12	.14	.14	.14	.17	.14	.71	.24	.20	.11	7.4
9	.09	.11	.14	.14	.14	.17	.16	.41	.23	.17	.12	6.9
10	.08	.12	.14	.14	.14	.16	.28	.23	.21	.16	.11	134
11	.08	.12	.14	.13	.14	.14	.23	.21	.20	.14	.11	34
12	.08	.12	.14	.12	.14	.14	.21	.16	.17	.16	.13	12
13	.08	.13	.14	.13	.14	.14	.16	.15	.16	.14	.14	7.5
14	.08	.12	.14	.14	.14	.14	.13	.14	.16	.14	.14	6.1
15	.09	.12	.14	.14	.17	.14	.12	.14	.13	.16	.16	4.2
16	.09	.12	.14	.14	.14	.14	.13	.12	.12	.14	.16	5.6
17	.09	.12	.14	.13	.14	.14	.15	6.3	.12	.16	.12	5.7
18	.10	.12	.14	.14	.14	.16	.16	9.9	.13	.13	.12	4.9
19	.10	.12	.14	.14	.14	.15	.12	1.9	.12	.13	.10	5.1
20	.09	.26	.14	.14	.13	.12	.13	.79	.12	.12	.11	3.0
21	.08	.18	.14	.14	.14	.12	.14	.44	.13	.12	.12	2.0
22	.08	.17	.14	.14	.16	.12	.23	.33	.14	.12	.12	1.3
23	.09	.14	.13	.13	.15	.12	.21	.28	.12	.12	.13	1.5
24	.10	.14	.14	.13	.14	.12	.19	.35	.12	.12	.14	1.1
25	.10	.14	.14	.14	.16	.12	.15	.26	.14	.12	.14	.71
26	.10	.15	.14	.14	.15	.16	.13	.26	.12	.11	.14	.40
27	.10	.17	.15	.15	.15	.18	.13	.35	.12	.10	.14	.26
28	.08	.13	.14	.17	.17	.17	.15	.24	118	.15	.14	.23
29	.09	.14	.14	.16	---	.17	.14	56	33	.14	.14	.20
30	.09	.14	.14	.16	---	.14	.14	72	2.1	.13	.14	.16
31	.12	---	.14	.17	---	.15	---	16	---	.12	.14	---
TOTAL	2.73	3.94	4.39	4.37	4.03	4.67	4.73	202.91	167.14	21.77	4.02	249.07
MEAN	.088	.13	.14	.14	.14	.15	.16	6.55	5.57	.70	.13	8.30
MAX	.12	.26	.16	.17	.17	.18	.28	72	118	10	.24	134
MIN	.08	.10	.13	.12	.12	.12	.12	.12	.12	.10	.10	.14
AC-FT	5.4	7.8	8.7	8.7	8.0	9.3	9.4	402	332	43	8.0	494

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	1.17	.17	.16	.18	.20	.18	.20	3.20	2.30	4.55	8.79	2.08																			
MAX	16.0	.35	.26	.43	.59	.40	.73	30.1	20.6	36.4	104	9.89																			
(WY)	1986	1973	1973	1973	1987	1973	1973	1981	1969	1977	1981	1972																			
MIN	.059	.067	.031	.064	.11	.072	.075	.072	.030	.039	.11	.041																			
(WY)	1992	1984	1984	1984	1992	1979	1979	1992	1968	1978	1991	1991																			

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1966 - 1995

ANNUAL TOTAL	157.60	673.77	
ANNUAL MEAN	.43	1.85	
HIGHEST ANNUAL MEAN			1.95
LOWEST ANNUAL MEAN			12.3
HIGHEST DAILY MEAN	68	Aug 19	134
LOWEST DAILY MEAN	^a .06	Jun 30	^b .08
ANNUAL SEVEN-DAY MINIMUM	.06	Jun 30	.08
INSTANTANEOUS PEAK FLOW			2170
INSTANTANEOUS PEAK STAGE			6.90
ANNUAL RUNOFF (AC-FT)	313	1340	1410
10 PERCENT EXCEEDS	.20	1.1	.44
50 PERCENT EXCEEDS	.14	.14	.15
90 PERCENT EXCEEDS	.08	.10	.08

a-Also occurred Jul 1-8, 12-14, 25-29.

b-Also occurred Oct 2-7, 10-14, 21-22, 28.

c-Also occurred Jun 8-13, 1968.

d-From rating curve extended above 65 ft³/s, on basis of slope-area measurement of peak flow.

e-From floodmarks.

f-Maximum gage height, 9.98 ft, Aug 9, 1979, from floodmark.

07126200 VAN BREMER ARROYO NEAR MODEL, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1983 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1983 to current year.
 WATER TEMPERATURE: January 1983 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Daily data that are not published are either missing or of unacceptable quality. Records for water temperature are fair. Records for specific conductance are good, except for Sept. 14-30, and those below 400 microsiemens, which are fair.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 8,860 microsiemens, May 13, 1987; minimum, 114 microsiemens, June 28, 1995.
 WATER TEMPERATURE: Maximum, 34.0°C, June 15, 28, 1986; minimum, 0.0°C, many days during the winter in most years.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 5,510 microsiemens, July 3; minimum, 114 microsiemens, June 28.
 WATER TEMPERATURE: Maximum, 29.8°C, June 14; minimum, 1.0°C, Nov. 20.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1630	1570	1610	2030	1980	2010	2010	1970	2000	2060	1970	2000
2	1650	1540	1610	2000	1950	1980	2020	1960	2000	2050	1980	2020
3	1660	1570	1620	1980	1930	1960	2010	1970	1990	2040	2000	2030
4	1680	1610	1650	1930	1900	1920	1990	1960	1980	2060	2020	2040
5	1680	1580	1640	1910	1870	1890	1990	1940	1970	2050	2010	2030
6	---	1570	1720	1900	1880	1890	1960	1930	1940	2070	2000	2030
7	---	1670	---	1900	1880	1890	1950	1920	1940	2080	1990	2040
8	---	1730	---	1910	1890	1900	1960	1930	1940	2060	2030	2040
9	---	1700	---	1930	1890	1900	2040	1940	1980	2070	2010	2040
10	---	1680	1760	1930	1900	1910	2030	1960	1990	2040	1990	2020
11	1780	1660	1740	1920	1900	1910	1990	1920	1960	2030	1980	2000
12	---	---	---	1930	1900	1910	2000	1950	1980	1990	1940	1970
13	---	---	---	1920	1900	1910	2030	1960	2000	2000	1950	1970
14	---	---	---	1930	1910	1920	2020	1980	2000	2020	1930	1970
15	---	---	---	1920	1890	1900	2090	1970	2030	2000	1970	1980
16	---	1660	1810	1910	1890	1900	2090	2000	2040	1990	1960	1970
17	---	---	1760	1920	1880	1900	2100	2040	2070	2040	1920	1970
18	1800	1690	1770	1920	1890	1910	2110	2020	2050	2000	1940	1970
19	1870	1680	1780	1940	1850	1920	2100	2060	2070	2090	1970	2020
20	1880	1690	1800	1980	1810	1880	2140	2020	2070	2060	1990	2010
21	1850	1700	1800	1990	1920	1960	2100	2030	2070	2010	1960	1990
22	1880	1780	1830	1930	1900	1920	2100	2050	2070	2030	1970	2000
23	1860	1810	1840	1940	1890	1910	2120	2030	2070	2110	1980	2030
24	1880	1850	1860	1960	1910	1930	2070	2020	2050	2080	1970	2020
25	1900	1850	1870	1960	1920	1950	2050	1990	2020	2050	1980	2030
26	---	1850	1880	1970	1950	1960	2030	1980	2000	2030	1980	2010
27	1930	1810	1870	1990	1970	1980	2000	1970	1990	2020	1990	2010
28	1920	---	1870	1990	1950	1970	2010	1970	1990	2000	1960	1970
29	1950	1910	1930	2070	1980	2010	2010	1950	1990	1960	1910	1940
30	1980	1940	1960	2030	1940	1990	2010	1970	1990	1990	1880	1930
31	2030	1970	2010	---	---	---	2000	1960	1980	1960	1930	1940
MONTH	---	---	---	2070	1810	1930	2140	1920	2010	2110	1880	2000

07126200 VAN BREMER ARROYO NEAR MODEL, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	1950	1920	1940	1970	1950	1960	2080	2030	2060	2030	1990	2000
2	1960	1930	1940	1990	1930	1960	2080	2050	2070	2030	2000	2010
3	1940	1910	1920	2010	1940	1980	2070	2020	2050	2040	2000	2010
4	1940	1900	1920	2010	1980	1990	2040	2010	2030	2060	2000	2030
5	1920	1880	1910	2000	1970	1990	2060	2030	2040	2030	1270	1980
6	1940	1900	1920	2000	1970	1990	2050	2010	2030	1910	395	781
7	1950	1910	1930	2040	1970	2010	2060	2010	2030	874	791	853
8	1950	1920	1940	2010	1950	1990	2050	2020	2040	955	874	918
9	1960	1930	1940	2010	1970	2000	2050	1970	2010	1100	952	1020
10	1960	1930	1940	2020	1990	2010	2020	1880	1950	1240	1080	1140
11	1970	1920	1940	---	---	---	2030	1840	1930	1300	1220	1260
12	2030	1950	1990	---	---	---	2040	1990	2010	1450	1300	1390
13	2020	1960	2000	2030	2000	2020	---	---	---	1500	1440	1470
14	2030	1900	1980	2030	2000	2020	2040	2030	2040	1540	1460	1510
15	1980	1950	1960	2030	1990	2010	2030	1980	2010	1590	1530	1560
16	2010	1960	1980	2040	2000	2020	2010	1960	1990	1630	1580	1600
17	2030	1940	1980	2040	2000	2020	2010	1960	1990	1630	460	1150
18	2010	1960	1990	2080	2020	2050	2020	1940	1990	1710	478	1150
19	2010	1950	1980	2070	2040	2050	2010	1990	2000	1600	1010	1280
20	1990	1930	1970	2060	2020	2050	2020	1980	2000	1240	1010	1110
21	1970	1930	1950	2050	2010	2040	2020	1920	1990	1380	1240	1320
22	1950	1920	1940	2060	2020	2040	2000	1850	1950	1550	1350	1480
23	1950	1910	1940	2050	2020	2040	2020	1850	1960	1590	1460	1560
24	1940	1900	1920	2050	2030	2040	2010	1980	2000	1660	1450	1580
25	1950	1910	1930	2050	1990	2030	2010	1970	1990	1780	1660	1730
26	1950	1910	1930	2080	1990	2040	1990	1950	1960	1830	1670	1790
27	1960	1910	1940	2120	2070	2090	1980	1740	1950	1870	1550	1780
28	1980	1950	1970	2080	2050	2060	2020	1960	1980	1910	1860	1880
29	---	---	---	2060	2030	2050	2000	1970	1990	1900	340	1550
30	---	---	---	2060	2000	2040	2010	1980	1990	2690	401	1410
31	---	---	---	2060	2010	2030	---	---	---	3400	2440	2720
MONTH	2030	1880	1950	---	---	---	---	---	---	3400	340	1520
	JUNE			JULY			AUGUST			SEPTEMBER		
1	3460	3320	3360	850	711	800	2150	2070	2120	2050	2000	2020
2	3380	3270	3350	2090	707	874	2390	1990	2160	2040	1990	2020
3	3270	3050	3150	5510	2090	4850	2410	2340	2380	2060	1970	2010
4	3050	2930	3000	5090	3520	4330	2390	2210	2260	2010	1940	1980
5	3000	2870	2930	3520	2880	3170	2230	2140	2190	1980	1930	1960
6	2980	2840	2910	2880	2560	2680	2220	2130	2170	2570	1940	2120
7	2890	2720	2810	2670	2400	2470	2180	2090	2130	3150	2050	2720
8	2780	2720	2750	2470	2300	2370	2140	2080	2110	2050	1440	1650
9	2870	2740	2780	2370	2220	2290	2140	2050	2100	1440	1260	1310
10	2780	2650	2710	2350	2200	2280	2170	2050	2110	1270	219	605
11	2810	2640	2720	2320	2180	2270	2170	2100	2140	1010	841	905
12	2760	2630	2690	2320	2160	2260	2150	2070	2100	1110	888	1020
13	2730	2600	2650	2310	2160	2230	2150	2060	2100	1210	1110	1160
14	2720	2570	2630	2270	2180	2220	2140	1990	2060	1310	1210	1260
15	2620	2530	2570	2340	2160	2240	2080	2020	2040	1340	1270	1310
16	2530	2460	2490	2340	2210	2270	2090	2030	2060	1340	1260	1290
17	2470	2410	2440	2350	2090	2240	2160	1980	2090	1420	1290	1350
18	2550	2390	2450	2490	2340	2400	2190	2100	2140	1420	1340	1380
19	2590	2470	2520	2420	2320	2380	2160	1990	2070	1390	1290	1330
20	2560	2480	2520	2410	2290	2360	2060	2000	2040	1410	1290	1340
21	2510	2300	2390	2400	2250	2310	2100	1810	2030	1410	1310	1390
22	2560	2320	2420	2370	2210	2290	2110	2020	2070	1410	1350	1380
23	2480	2410	2450	2380	2230	2300	2090	1840	2030	1420	1350	1380
24	2410	2290	2350	2380	2200	2280	2100	2010	2070	1440	1310	1410
25	2420	2190	2320	2320	2210	2260	2140	2040	2080	1440	1330	1400
26	2430	2320	2370	2300	2190	2250	2120	2020	2070	1470	1370	1420
27	2380	2280	2330	2280	2170	2220	2070	2010	2040	1530	1410	1470
28	2370	114	2010	2230	2160	2190	2100	2000	2050	1550	1460	1510
29	483	170	326	2200	2110	2170	2100	1970	2050	1570	1450	1520
30	711	483	588	2220	2140	2190	2090	1980	2030	1590	1430	1530
31	---	---	---	2230	2110	2170	2040	2000	2020	---	---	---
MONTH	3460	114	2500	5510	707	2370	2410	1810	2100	3150	219	1500

07126200 VAN BREMER ARROYO NEAR MODEL, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	16.0	18.3	15.2	9.2	11.9	9.0	4.6	6.6	6.5	3.4	4.6
2	21.3	14.6	17.8	14.0	9.8	11.7	8.9	4.3	6.5	5.6	3.7	4.6
3	20.4	14.2	17.0	12.7	9.6	10.7	8.4	4.6	6.5	5.6	3.8	4.5
4	20.8	15.7	17.8	11.9	8.5	9.9	8.2	5.1	6.7	5.5	3.7	4.5
5	20.8	16.0	18.1	12.6	6.6	9.6	6.8	5.6	6.2	5.7	4.0	4.8
6	19.2	13.1	16.3	14.1	8.1	11.0	6.4	5.0	5.6	7.0	4.4	5.6
7	17.1	12.4	14.9	14.7	9.7	12.1	7.9	4.7	6.0	7.1	4.2	5.6
8	16.5	12.9	14.6	12.0	9.4	10.8	5.6	4.6	5.0	8.1	4.4	6.0
9	17.9	10.9	14.4	13.4	8.7	10.6	6.3	3.9	5.0	7.3	4.2	5.7
10	18.6	11.4	14.9	12.8	7.6	10.1	6.1	4.0	5.1	7.9	4.2	6.0
11	19.0	12.0	15.2	12.9	8.3	10.6	6.5	4.2	5.1	8.8	4.7	6.4
12	18.0	11.7	14.8	13.4	10.5	11.6	6.1	4.0	5.2	7.6	5.0	6.2
13	17.5	11.3	14.2	12.7	8.3	10.3	7.8	3.9	5.9	7.5	4.2	5.7
14	14.0	10.9	12.5	9.4	7.1	8.1	7.0	4.1	5.5	8.1	4.4	6.1
15	16.6	11.2	13.5	10.5	5.9	8.0	6.8	4.2	5.4	9.4	4.0	6.6
16	16.6	11.6	13.9	8.9	5.5	7.3	6.8	4.2	5.4	7.8	4.7	6.0
17	16.8	12.4	14.1	9.2	5.9	7.4	7.9	4.2	5.7	6.0	3.9	4.9
18	16.2	10.0	13.0	8.6	5.0	6.7	7.5	4.9	6.1	6.4	3.6	5.0
19	16.2	10.2	13.1	8.9	5.3	6.9	7.5	4.3	5.7	6.5	3.6	5.0
20	16.1	9.9	13.1	6.4	1.0	3.9	6.7	4.2	5.4	6.2	4.1	5.2
21	16.1	10.2	13.2	7.6	4.1	5.8	7.1	4.1	5.6	7.5	4.3	5.8
22	15.9	10.0	12.8	7.6	5.3	6.2	7.5	4.1	5.7	7.5	4.3	5.8
23	16.0	10.3	13.0	7.5	4.3	5.8	7.5	4.6	6.0	6.5	4.1	5.4
24	14.5	10.4	12.1	7.7	4.0	5.8	8.9	5.6	7.0	7.6	4.0	5.7
25	14.7	9.4	12.0	7.1	4.0	5.6	8.7	5.0	6.7	8.4	4.4	6.3
26	14.8	9.2	12.1	8.5	3.8	6.2	8.3	5.0	6.4	9.2	6.0	7.1
27	15.1	9.5	12.4	7.5	4.9	6.0	8.3	4.6	6.2	7.8	5.3	6.6
28	15.8	10.2	12.8	5.8	2.7	4.4	7.8	4.4	5.9	6.5	5.3	5.9
29	14.9	9.7	11.7	6.2	3.9	4.9	7.9	4.7	6.1	5.8	3.8	5.0
30	13.2	8.2	10.5	7.5	4.3	5.8	6.5	4.9	5.9	7.5	3.5	5.4
31	14.1	8.8	11.4	---	---	---	5.4	3.9	4.5	9.0	4.1	6.4
MONTH	21.3	8.2	14.0	15.2	1.0	8.2	9.0	3.9	5.8	9.4	3.4	5.6
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.1	5.3	7.5	5.6	3.4	4.8	17.5	6.2	11.6	20.3	10.9	15.0
2	11.0	5.5	7.9	6.7	3.4	5.0	16.5	7.8	11.8	20.2	10.5	14.8
3	9.5	5.2	7.2	11.6	3.6	7.5	18.6	8.7	13.2	21.4	12.4	16.1
4	10.2	4.4	7.2	12.4	6.3	9.1	19.5	8.5	13.5	21.9	11.6	16.0
5	9.9	4.8	7.5	12.8	6.2	9.6	19.3	9.3	14.1	17.0	7.5	13.3
6	10.7	5.0	7.7	9.6	5.6	7.5	20.1	9.9	14.8	11.4	2.6	7.9
7	9.3	5.3	7.0	11.0	4.8	7.3	19.5	10.5	14.5	15.1	9.7	12.0
8	8.5	4.8	6.6	11.9	5.2	8.3	20.8	10.2	15.0	14.8	10.7	12.7
9	10.2	4.9	7.2	13.5	5.7	9.6	15.3	6.3	11.6	17.2	10.5	13.6
10	10.0	5.1	6.9	---	6.7	---	11.5	3.5	7.3	19.6	12.0	14.6
11	5.3	2.3	4.0	---	---	---	15.2	3.9	8.9	22.2	13.6	17.0
12	5.2	2.9	4.0	---	---	---	---	5.9	---	21.7	13.5	17.3
13	6.0	3.5	4.6	16.7	---	---	---	---	---	22.4	12.2	17.0
14	8.3	3.7	5.8	15.5	6.7	10.9	---	---	---	22.6	12.2	17.0
15	8.8	4.6	6.5	16.5	6.8	11.2	14.4	8.8	11.7	24.4	13.8	18.6
16	9.8	4.6	6.8	16.9	8.2	12.4	18.5	9.3	12.8	24.6	15.5	19.5
17	9.8	4.7	7.0	16.8	9.7	12.8	12.8	9.0	10.6	18.6	10.4	13.9
18	10.5	4.6	7.4	19.1	9.0	13.6	16.7	7.0	11.0	16.1	9.6	12.8
19	11.4	5.4	8.5	16.7	10.2	13.0	10.2	7.6	8.3	19.8	13.3	16.6
20	12.8	6.5	9.6	16.2	8.6	12.3	15.5	6.9	10.6	21.4	16.0	17.9
21	13.5	6.9	10.0	17.9	9.5	13.5	15.5	8.9	11.1	24.6	16.2	19.2
22	13.8	7.5	10.3	16.7	9.5	12.7	12.4	6.2	9.2	24.1	16.8	19.7
23	13.4	6.8	9.8	15.1	7.6	11.0	17.4	5.6	11.1	18.2	13.1	15.5
24	14.2	7.1	10.4	16.2	8.2	12.0	17.9	9.8	13.2	16.5	12.2	13.9
25	14.7	7.6	11.1	16.6	7.1	11.7	20.8	9.6	14.5	19.9	12.4	15.6
26	14.8	8.1	11.2	13.4	6.1	9.4	14.6	9.6	12.0	22.3	13.3	16.9
27	14.5	7.9	10.9	15.6	6.3	10.3	17.1	8.7	12.8	20.1	13.5	16.6
28	9.6	5.6	7.6	10.0	6.5	8.0	21.4	10.7	15.3	17.9	14.2	15.9
29	---	---	---	8.1	5.9	6.9	19.3	12.6	15.3	15.3	10.7	13.8
30	---	---	---	8.1	5.5	6.8	18.7	11.3	14.7	14.8	9.8	12.3
31	---	---	---	15.4	3.3	9.1	---	---	---	18.9	13.1	15.9
MONTH	14.8	2.3	7.8	---	---	---	---	---	---	24.6	2.6	15.4

07126200 VAN BREMER ARROYO NEAR MODEL, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.2	16.0	19.1	19.7	14.1	16.6	26.9	18.7	22.4	28.0	20.0	23.9
2	22.1	18.8	20.0	20.9	15.7	18.4	27.4	19.1	22.9	27.5	20.1	23.6
3	21.5	17.5	19.0	22.4	18.8	20.3	27.7	19.8	23.2	28.0	20.2	23.9
4	23.2	16.3	19.6	21.9	17.1	19.5	27.8	20.2	23.4	27.7	20.5	24.0
5	25.7	17.1	21.1	24.0	16.4	19.6	28.1	19.9	23.7	26.6	20.0	23.4
6	27.4	18.1	22.0	23.3	17.8	20.8	28.8	19.9	24.2	23.5	19.9	22.0
7	26.1	17.5	20.7	24.4	18.7	21.8	27.8	20.5	24.1	21.7	19.9	20.7
8	22.5	17.2	19.6	26.0	18.8	22.5	28.1	20.6	24.2	22.3	19.3	20.6
9	25.8	16.0	20.1	28.1	18.9	23.0	28.5	21.0	24.2	21.3	19.7	20.3
10	21.6	16.1	18.5	28.5	19.1	23.3	29.6	20.4	24.7	20.0	15.6	18.3
11	26.6	15.4	20.2	28.7	18.9	23.6	28.8	21.5	24.8	23.0	18.4	20.5
12	28.0	16.8	21.9	27.1	19.7	23.4	27.7	21.3	24.4	23.1	19.6	21.2
13	29.1	17.9	23.1	27.2	19.6	23.3	28.1	21.5	24.5	22.6	18.9	20.8
14	29.8	18.7	23.4	25.6	20.1	22.5	25.2	20.9	22.9	22.0	19.3	20.6
15	27.1	18.8	22.4	27.2	20.0	23.2	28.3	20.0	23.8	21.4	18.4	20.0
16	24.9	17.3	20.6	26.8	19.9	23.0	28.3	20.5	24.3	20.7	18.9	19.7
17	22.7	17.3	19.6	25.1	19.8	21.8	29.1	20.8	24.5	21.7	17.6	19.6
18	26.2	16.5	20.5	27.6	20.0	23.0	29.2	22.0	25.2	21.4	18.5	19.9
19	27.8	17.2	21.9	27.0	19.8	23.3	25.2	20.9	23.2	19.8	17.8	19.0
20	28.0	18.1	22.5	28.8	19.5	23.7	27.5	19.7	23.4	18.4	16.1	17.3
21	27.5	18.2	21.8	27.5	19.9	23.5	28.2	20.2	23.9	16.1	11.9	13.4
22	29.0	17.6	22.4	27.2	19.2	23.2	26.9	20.9	23.8	15.5	10.7	13.1
23	27.6	19.2	22.4	27.9	18.9	22.8	27.0	20.1	23.5	16.5	11.6	14.2
24	27.6	17.1	21.8	28.1	18.5	23.2	28.5	20.1	23.9	14.7	12.9	13.8
25	28.3	17.5	22.3	28.1	19.0	23.5	28.4	20.7	24.1	17.6	11.6	14.5
26	26.1	18.8	22.2	28.6	19.1	23.9	25.5	21.1	23.0	19.1	13.2	15.9
27	29.2	16.8	22.4	28.2	19.1	23.8	26.8	20.5	23.4	21.5	13.6	17.3
28	27.6	4.6	20.2	26.4	19.7	23.0	27.8	21.2	24.2	19.2	15.2	16.9
29	13.3	7.5	10.9	26.8	19.8	23.0	27.7	20.7	23.9	19.7	14.0	16.5
30	15.3	13.2	14.1	28.2	19.9	23.5	24.9	20.4	22.6	19.0	13.1	15.8
31	---	---	---	24.1	20.5	21.9	27.2	19.4	23.2	---	---	---
MONTH	29.8	4.6	20.5	28.8	14.1	22.3	29.6	18.7	23.8	28.0	10.7	19.0

07126200 VAN BREMER ARROYO NEAR MODEL, C0--Continued

PRECIPITATION RECORDS

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

GAGE.--Tipping-bucket rain gage and electronic-data logger. Elevation of gage is 4,960 ft above sea level, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall during period of seasonal record, 2.24 inches, Aug. 19, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall during period of seasonal operation, 1.76 inches, May 29.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	---	.00	.00	.03	.00	.00
2	.00	.00	---	---	---	---	---	.00	.01	.00	.00	.00
3	.00	.02	---	---	---	---	---	.00	.10	.00	.00	.00
4	.00	.00	---	---	---	---	---	.00	.17	.00	.10	.00
5	.11	.00	---	---	---	---	---	1.34	.00	.00	.00	.00
6	.00	.00	---	---	---	---	---	.09	.00	.00	.00	.05
7	.00	.00	---	---	---	---	---	.00	.00	.00	.00	.01
8	.10	.06	---	---	---	---	---	.23	.02	.00	.00	.00
9	.00	.00	---	---	---	---	---	.00	.00	.00	.01	.70
10	.00	.00	---	---	---	---	---	.11	.19	.00	.00	.01
11	.00	.02	---	---	---	---	---	.01	.00	.00	.06	.00
12	.00	.00	---	---	---	---	---	.00	.00	.00	.00	.00
13	.00	.00	---	---	---	---	---	.00	.00	.00	.00	.00
14	.01	.00	---	---	---	---	.00	.00	.00	.50	.05	.00
15	.05	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
16	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
17	.23	.00	---	---	---	---	.18	1.50	.05	.39	.00	.00
18	.00	.00	---	---	---	---	.00	.00	.05	.23	.00	.04
19	.00	.00	---	---	---	---	.05	.00	.00	.02	.04	.00
20	.00	.26	---	---	---	---	.02	.19	.00	.00	.00	.03
21	.00	.00	---	---	---	---	.13	.14	.19	.18	.00	.14
22	.00	.00	---	---	---	---	.56	.00	.01	.00	.13	.00
23	.00	.00	---	---	---	---	.03	.42	.00	.00	.00	.00
24	.00	.00	---	---	---	---	.00	.13	.25	.00	.00	.23
25	.00	.00	---	---	---	---	.00	.00	.04	.00	.00	.03
26	.00	.00	---	---	---	---	.05	.40	.05	.00	.00	.00
27	.00	.01	---	---	---	---	.00	.01	.00	.00	.00	.00
28	.00	.00	---	---	---	---	.00	.22	.06	.00	.00	.00
29	.00	---	---	---	---	---	.00	1.76	.09	.00	.00	.00
30	.10	---	---	---	---	---	.00	.06	.33	.00	.00	.00
31	.00	---	---	---	---	---	---	.06	---	.00	.00	---
TOTAL	0.60	---	---	---	---	---	---	6.67	1.61	1.35	0.39	1.24

ARKANSAS RIVER BASIN

07126300 PURGATOIRE RIVER NEAR THATCHER, CO

LOCATION.--Lat 37°21'30", long 103°53'44", in sec.10, T.31 S., R.58 W., Las Animas County, Hydrologic Unit 11020010, on right bank 250 ft downstream from county road bridge at gas line crossing, 1.2 mi downstream from Van Bremer Arroyo, and 18 mi southeast of Thatcher.

DRAINAGE AREA.--1,791 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1966 to current year. Statistical summary computed for 1976 to current year, subsequent to completion of Trinidad Reservoir.

REVISED RECORDS.--WDR CO-84-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,790 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 21-22, Nov. 24 to Dec. 3, Dec. 9-24, Jan. 1-11, 18-25, Jan. 30 to Feb. 1, and Feb. 12-15. Records good except for estimated daily discharges and flows greater than 1,600 ft³/s, which are poor. Diversions upstream from station for irrigation of about 30,000 acres. Peak flows regulated to some extent by Trinidad Dam, 52 mi upstream, since January 1975.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of July 22, 1954, and May 19, 1955, reached stages of 26.7 and 25.2 ft, respectively, from floodmarks. Flood of June 18, 1965, reached a stage of 23.5 ft, from floodmarks, discharge, 47,700 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	72	30	25	26	22	19	26	302	159	9.5	44
2	25	79	33	26	28	22	19	29	194	315	10	42
3	25	43	34	25	27	21	17	23	298	148	11	32
4	22	39	35	25	25	23	18	22	229	81	10	26
5	23	37	34	26	24	24	16	22	200	50	8.2	26
6	41	37	34	26	24	22	15	754	104	43	6.1	25
7	36	35	34	27	24	22	15	127	72	35	12	24
8	29	34	34	28	24	22	14	62	58	30	10	39
9	27	34	32	27	24	22	12	39	53	24	17	111
10	28	34	29	27	23	22	20	30	52	17	44	270
11	28	33	29	30	23	22	32	22	59	14	48	157
12	28	34	28	31	21	20	35	22	51	20	32	184
13	28	33	29	31	18	20	26	22	45	37	30	150
14	27	34	28	30	21	19	33	19	38	35	30	75
15	27	33	27	33	23	20	27	19	36	29	27	58
16	28	33	28	29	27	20	22	14	31	26	37	55
17	45	32	29	28	26	20	18	28	58	57	31	44
18	65	31	28	24	24	20	16	99	53	61	26	42
19	56	30	28	21	23	19	14	49	55	109	339	42
20	52	37	27	22	23	18	13	35	48	70	157	72
21	51	35	28	24	21	18	14	31	35	279	66	53
22	50	36	28	24	20	18	19	30	43	71	46	55
23	50	37	29	23	20	16	25	28	44	35	36	57
24	49	34	30	26	20	15	34	55	35	30	36	98
25	48	34	30	27	20	14	42	77	35	22	35	144
26	48	35	31	31	20	16	39	84	36	18	57	145
27	48	37	30	29	20	17	41	112	30	18	46	107
28	48	36	29	30	20	17	33	81	101	15	46	55
29	61	30	28	29	---	19	28	632	111	12	46	48
30	66	30	29	28	---	19	25	3980	122	10	47	44
31	74	---	30	25	---	19	---	603	---	8.3	46	---
TOTAL	1259	1118	932	837	639	608	701	7176	2628	1878.3	1401.8	2324
MEAN	40.6	37.3	30.1	27.0	22.8	19.6	23.4	231	87.6	60.6	45.2	77.5
MAX	74	79	35	33	28	24	42	3980	302	315	339	270
MIN	22	30	27	21	18	14	12	14	30	8.3	6.1	24
AC-FT	2500	2220	1850	1660	1270	1210	1390	14230	5210	3730	2780	4610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

MEAN	32.7	29.7	28.1	27.1	29.4	34.1	88.9	142	112	93.2	149	64.3
MAX	84.0	52.3	44.3	43.2	53.3	109	467	592	764	547	910	302
(WY)	1986	1987	1987	1988	1987	1993	1983	1987	1983	1981	1981	1981
MIN	.73	3.71	12.1	10.6	11.5	5.97	1.38	6.22	6.69	8.80	9.10	.64
(WY)	1979	1979	1979	1978	1976	1977	1978	1976	1976	1989	1976	1978

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1976 - 1995	
ANNUAL TOTAL	25136.7		21502.1			
ANNUAL MEAN	68.9		58.9		a 69.4	
HIGHEST ANNUAL MEAN					181	
LOWEST ANNUAL MEAN					12.3	
HIGHEST DAILY MEAN	887	Aug 19	3980	May 30	10000	Jul 3 1981
LOWEST DAILY MEAN	9.8	Jul 14	6.1	Aug 6	b .00	Jun 28 1976
ANNUAL SEVEN-DAY MINIMUM	13	Jul 10	9.0	Jul 31	.00	Jun 28 1976
INSTANTANEOUS PEAK FLOW			13300	May 30	c 42400	Jul 3 1981
INSTANTANEOUS PEAK STAGE			12.58	May 30	22.00	Jul 3 1981
ANNUAL RUNOFF (AC-FT)	49860		42650		50280	
10 PERCENT EXCEEDS	156		78		118	
50 PERCENT EXCEEDS	35		30		29	
90 PERCENT EXCEEDS	25		18		5.4	

a-Average discharge for 10 years (water years 1967-76), 37.9 ft³/s; 27460 acre-ft/yr, prior to completion of Trinidad Dam.

b-No flow at times in most years.

c-From rating curve extended above 2100 ft³/s, on basis of two slope-area measurements of peak flow.

07126300 PURGATOIRE RIVER NEAR THATCHER, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1982 to current year.

WATER TEMPERATURE: December 1982 to current year.

SUSPENDED SEDIMENT DISCHARGE: May 1983 to September 1992 (Discontinued).

INSTRUMENTATION.--Water-quality monitor since December 1983 with satellite telemetry. Pumping-sediment sampler since May 1983.

REMARKS.--Records good, except for May 11 to June 3 and July 29 to Aug. 16, which are fair. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 7,030 microsiemens, July 30, 1994; minimum, 245 microsiemens, Aug. 20, 1994.

WATER TEMPERATURE: Maximum, 32.1°C, June 25, 1990; minimum 0.0°C, on many days during the winter months.

SEDIMENT CONCENTRATION: Maximum daily, 49,600 mg/L, June 9, 1986; minimum daily, 3 mg/L, Apr. 29, 1989.

SEDIMENT LOAD: Maximum daily, 250,000 tons, June 6, 1983; minimum daily, 0.00 tons, June 26 to July 4, 1990.

EXTREMES FOR CURRENT WATER YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 5,090 microsiemens, June 11; minimum, 462 microsiemens, June 28-29.

WATER TEMPERATURE: Maximum, 29.0°C, Aug. 6; minimum, 0.0°C, on many days during the winter months.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WILL BE PUBLISHED IN A SUBSEQUENT REPORT

07126300 PURGATOIRE RIVER NEAR THATCHER, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3360	3320	3340	2070	1550	1750	3510	3320	3430	3340	3240	3300
2	3350	3320	3330	2350	1560	1990	3580	3470	3520	3410	3310	3350
3	3360	3330	3350	1700	1450	1480	3540	3290	3410	3430	3210	3320
4	3400	3350	3380	1540	1450	1470	3350	3290	3320	3480	3310	3420
5	3400	3380	3390	2380	1540	1940	3440	3310	3360	3510	3420	3460
6	3460	3380	3410	2810	2380	2640	3450	3410	3430	3500	3360	3440
7	3450	3350	3410	2990	2800	2920	3460	3380	3420	3380	3320	3340
8	3410	3350	3380	3050	2990	3030	3400	3340	3380	3430	3210	3310
9	3360	2640	3130	3090	3050	3070	3390	3330	3360	3280	3190	3230
10	3250	2640	2990	3100	3070	3090	3440	3350	3400	3290	3210	3250
11	3450	3250	3360	3090	3080	3090	3530	3310	3390	3300	3170	3210
12	3440	3360	3400	3130	3080	3110	3420	3270	3340	3370	3250	3310
13	3410	3350	3380	3160	3130	3150	3550	3330	3390	3370	3100	3290
14	3450	3410	3440	3160	3150	3150	3400	3330	3360	3100	2940	2990
15	3450	3410	3430	3160	3130	3150	3450	3290	3360	3120	2940	3060
16	3510	3430	3460	3150	3140	3150	3530	3250	3390	3160	3070	3130
17	3490	3400	3460	3150	3090	3130	3410	3240	3320	3090	2980	3050
18	3480	3250	3450	3100	3070	3080	3450	3320	3370	2990	2860	2910
19	3250	2450	2810	3090	3070	3080	3540	3330	3410	3070	2900	2940
20	2610	2300	2490	3070	2970	3000	3520	3310	3420	3320	3080	3200
21	2640	2480	2580	3110	3000	3060	3670	3310	3470	3380	3040	3170
22	2580	2470	2530	3070	2940	3010	3440	3130	3260	3240	3050	3160
23	2580	2550	2570	2940	2860	2890	3430	3310	3360	3360	3180	3270
24	2580	2570	2570	2990	2840	2890	3460	3300	3340	3550	3100	3320
25	2580	2560	2570	3110	2990	3060	3330	3270	3300	3190	3070	3130
26	2600	2560	2580	3210	3110	3180	3300	3220	3270	3230	3060	3150
27	2600	2480	2530	3300	3200	3250	3290	3190	3240	3270	3210	3240
28	2500	2470	2490	3290	3210	3240	3290	3270	3280	3270	3080	3170
29	2530	2480	2510	3330	3230	3290	3310	3250	3280	3130	3010	3080
30	2540	2260	2490	3420	3290	3340	3300	3260	3280	3160	3130	3150
31	2260	2020	2080	---	---	---	3270	3250	3260	3230	3120	3170
MONTH	3510	2020	3010	3420	1450	2860	3670	3130	3360	3550	2860	3210
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3190	3100	3150	3510	3470	3490	3570	3540	3550	3510	3440	3490
2	3260	3090	3150	3490	3460	3480	3610	3560	3590	3560	3480	3520
3	3270	3180	3210	3500	3460	3470	3590	3570	3580	3670	3500	3590
4	3220	3160	3190	3500	3440	3480	3590	3540	3580	3740	3610	3680
5	3240	3160	3200	3440	3300	3350	3550	3510	3530	3610	3220	3370
6	3240	3170	3200	3340	3240	3280	3620	3530	3570	4570	691	1480
7	3200	3190	3190	3260	3210	3230	3640	3590	3620	719	639	667
8	3200	3170	3180	3390	3260	3340	3670	3620	3640	934	719	805
9	3210	3180	3190	3390	3330	3360	3660	3550	3630	1100	934	1040
10	3210	3160	3190	3370	3320	3340	3560	3400	3460	---	---	---
11	3190	3160	3170	3360	3320	3340	3600	3410	3520	---	---	---
12	3240	3170	3210	3400	3310	3350	3460	3220	3280	---	---	---
13	3270	3210	3250	3410	3380	3400	3390	3260	3310	---	---	---
14	3380	3200	3290	3530	3340	3440	3650	3230	3470	---	---	---
15	3310	3100	3180	3540	3510	3520	3230	2650	2880	---	---	---
16	3340	3100	3220	3590	3530	3570	3760	3150	3490	3220	3210	3200
17	3350	3170	3240	3600	3580	3590	4260	3760	3990	3250	2330	3070
18	3290	3070	3130	3590	3550	3570	4280	4160	4210	4610	2820	3940
19	3330	3190	3260	3620	3590	3610	4430	4180	4290	4410	2030	3190
20	3280	3200	3230	3630	3600	3610	4520	4430	4490	2520	1890	2150
21	3250	3200	3220	3610	3570	3590	4510	4390	4480	3040	2510	2680
22	3220	3190	3210	3580	3550	3570	4390	3840	4160	3420	3040	3240
23	3220	3180	3200	3590	3560	3580	3840	3590	3720	3650	3420	3580
24	3220	3180	3200	3650	3590	3630	3590	3440	3520	3650	3300	3530
25	3360	3220	3280	3630	3570	3610	3710	3550	3640	3730	2490	3430
26	3440	3360	3410	3570	3480	3520	3880	3710	3790	2500	1720	2130
27	3470	3420	3450	3540	3480	3510	4070	3830	3950	4180	2150	2500
28	3490	3460	3480	3640	3540	3570	3970	3350	3590	2780	1460	2100
29	---	---	---	3640	3610	3630	3790	3160	3490	2410	756	1680
30	---	---	---	3610	3580	3590	3440	3190	3370	1040	505	827
31	---	---	---	3610	3560	3590	---	---	---	1440	1040	1310
MONTH	3490	3070	3230	3650	3210	3490	4520	2650	3680	---	---	---

07126300 PURGATOIRE RIVER NEAR THATCHER, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1680	1440	1540	1800	1110	1580	2710	2570	2640	2690	2570	2630
2	1840	1680	1770	1790	1500	1670	2850	2710	2780	2630	2500	2570
3	2280	1190	1830	1890	1640	1750	2990	2840	2890	2600	2520	2570
4	1520	1050	1250	1750	1640	1690	2950	2870	2910	2620	2560	2590
5	2150	1520	1790	2000	1750	1860	2910	2860	2880	2640	2560	2600
6	2150	1900	2010	2190	2000	2130	2950	2870	2910	2610	2420	2550
7	2350	2140	2210	2230	2140	2180	3010	2920	2960	2540	2390	2470
8	2690	2350	2520	2400	2220	2310	3050	2980	3020	2710	2540	2650
9	2870	2690	2760	2530	2400	2470	3050	2970	3020	2810	2650	2740
10	2940	2870	2910	2610	2510	2560	3180	2940	3040	2760	994	1740
11	5090	2940	3610	2690	2600	2640	2940	2180	2560	3680	1690	2160
12	4830	3520	4000	2740	2680	2710	2180	1650	1900	2510	1540	1990
13	3520	3230	3360	2730	2490	2610	2070	1620	1770	2510	1080	1320
14	3230	3050	3140	2630	1460	2360	2090	1990	2050	1200	1160	1180
15	3050	2970	3000	2810	1440	2400	2240	1960	2070	1820	1200	1400
16	3040	2980	3020	2240	1710	1880	2310	2190	2260	2160	1820	2040
17	3150	3030	3070	1840	1490	1630	2390	2240	2320	2430	2160	2250
18	3240	3090	3150	1900	1380	1730	2370	2270	2320	2660	2430	2570
19	3250	2830	3120	1810	1360	1530	2390	1670	2160	2610	2440	2540
20	2830	2680	2730	2630	1530	1930	1670	1320	1430	3020	2440	2840
21	2920	2660	2820	2280	1650	2000	1910	1360	1720	3090	2950	3020
22	2660	2380	2570	1650	1310	1430	1930	1660	1800	3070	2540	2750
23	2640	2290	2410	1580	1320	1430	2260	1930	2100	3170	2690	2860
24	2930	2640	2860	1500	1320	1400	2330	2260	2310	3200	2810	3050
25	2920	2560	2720	1800	1490	1620	2450	2290	2370	3200	1690	2140
26	2560	2380	2430	2100	1800	1960	2860	2430	2690	1910	1700	1820
27	2810	2380	2510	2460	2100	2270	2870	2660	2800	1940	1790	1880
28	3100	462	2820	2600	2460	2550	2830	2440	2700	1790	1770	1780
29	2470	462	1480	2620	2570	2590	2720	2150	2440	1770	1730	1750
30	2760	1120	2420	2590	2540	2570	2770	2720	2740	2750	1750	2250
31	---	---	---	2580	2560	2570	2750	2660	2720	---	---	---
MONTH	5090	462	2590	2810	1110	2060	3180	1320	2460	3680	994	2290

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.4	17.1	18.2	10.8	8.2	9.5	2.2	.2	1.0	.6	.0	.3
2	19.0	16.2	17.5	10.8	9.0	9.8	2.6	.5	1.4	.5	.1	.2
3	18.7	15.9	17.2	10.0	8.8	9.3	2.5	.6	1.5	.3	.0	.1
4	18.6	16.4	17.5	9.1	7.6	8.4	2.8	1.1	1.9	.3	.0	.2
5	18.5	16.6	17.5	8.9	6.3	7.6	2.5	1.9	2.2	.4	.1	.2
6	17.3	14.8	16.0	9.6	6.9	8.2	2.8	2.1	2.4	.8	.1	.3
7	15.3	13.5	14.4	10.7	8.1	9.3	3.3	1.2	2.2	.7	.0	.3
8	14.5	12.9	13.6	9.6	8.2	9.0	2.3	1.1	1.8	1.2	.0	.5
9	14.5	11.4	13.0	9.6	7.5	8.4	1.1	.1	.5	1.3	.0	.6
10	15.0	11.6	13.2	9.5	7.1	8.3	.6	.1	.3	1.7	.1	.8
11	15.4	11.9	13.6	9.6	7.5	8.6	.9	.1	.3	2.4	.2	1.2
12	15.1	12.1	13.6	10.9	9.2	9.8	.6	.0	.3	2.4	1.2	1.7
13	15.0	12.0	13.5	9.8	7.9	8.9	1.4	.0	.6	2.4	.4	1.3
14	13.3	11.5	12.3	7.9	6.5	7.0	1.5	.1	.6	2.4	.2	1.2
15	13.4	10.9	12.0	7.1	5.1	6.1	.8	.0	.4	3.7	1.0	2.2
16	13.7	10.8	12.2	6.4	4.5	5.5	.7	.0	.3	3.7	2.3	2.9
17	13.6	11.6	12.4	6.5	4.4	5.7	1.1	.0	.4	2.3	.8	1.5
18	12.4	10.0	11.3	5.3	3.1	4.2	1.2	.0	.5	1.3	.1	.6
19	12.1	9.7	10.9	4.7	3.0	3.9	1.5	.0	.5	.8	.1	.4
20	12.1	9.4	10.8	3.6	.8	1.8	.7	.0	.3	.9	.0	.4
21	12.3	9.8	11.0	3.3	1.0	2.0	.7	.0	.3	1.7	.2	.8
22	12.2	9.7	10.9	2.9	1.9	2.4	.9	.0	.3	1.8	.1	.9
23	12.4	9.6	10.9	2.4	.5	1.4	1.1	.0	.5	.9	.0	.4
24	11.4	9.9	10.7	2.1	.2	1.0	3.0	.8	1.8	1.2	.0	.6
25	11.4	9.0	10.2	1.6	.3	.9	2.9	1.2	2.0	2.3	.1	1.1
26	11.6	8.9	10.2	3.2	.9	1.9	2.9	1.1	1.9	3.4	1.5	2.3
27	11.6	9.1	10.3	2.8	1.0	1.9	2.6	.9	1.7	3.5	2.1	2.9
28	12.0	9.6	10.7	1.8	.1	.9	2.6	.7	1.6	3.2	2.6	2.9
29	11.4	9.5	10.4	.7	.0	.3	2.7	.9	1.8	2.7	1.6	2.3
30	10.4	8.5	9.5	1.2	.1	.5	2.5	1.9	2.2	3.0	.4	1.6
31	10.4	8.3	9.3	---	---	---	1.9	.4	1.1	3.7	.8	2.2
MONTH	19.4	8.3	12.7	10.9	.0	5.4	3.3	.0	1.1	3.7	.0	1.1

07126325 TAYLOR ARROYO BELOW ROCK CROSSING, NEAR THATCHER, CO

LOCATION.--Lat 37°25'26", long 103°55'09", in SE¹/4SE¹/4 sec.17, T.30 S., R.58 W., Las Animas County, Hydrologic Unit 11020010, on left bank 5 mi upstream from mouth, 1.6 mi southeast of Rock Crossing, and 13.5 mi southeast of Thatcher.

DRAINAGE AREA.--48.4 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1983 to current year.

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gage. Elevation of gage is 4,982 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair except those above 200 ft³/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.06	.35	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.1	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.63	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.02	.06	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.48	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	58	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.44	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.12	.68	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.06	.19	.00	.00	.19
10	.00	.00	.00	.00	.00	.00	.00	.00	.11	.00	.00	1.5
11	.00	.00	.00	.00	.00	.00	.00	.04	.02	.00	.07	.62
12	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.02
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	33	.00	1.1	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	6.7	.00	.30	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.06	.00	.04	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00
22	.00	.00	.00	.00	.00	.00	.01	.00	.00	.02	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	78	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	56	33	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	64	1.2	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.78	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.01	219.69	113.28	6.85	0.07	2.33
MEAN	.000	.000	.000	.000	.000	.000	.000	7.09	3.78	.22	.002	.078
MAX	.00	.00	.00	.00	.00	.00	.01	64	78	4.1	.07	1.5
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.02	436	225	14	.1	4.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1995, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	.021	.000	.000	.000	.000	.000	.026	.60	.66	.81	.58	.032	
MAX	.14	.000	.000	.000	.000	.000	.33	7.09	3.78	7.60	2.72	.30	
(WY)	1987	1991	1984	1984	1984	1984	1983	1995	1995	1989	1987	1986	
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
(WY)	1984	1984	1984	1984	1984	1984	1984	1983	1984	1983	1988	1983	

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1983 - 1995

ANNUAL TOTAL	17.96	342.23	
ANNUAL MEAN	.049	.94	.24
HIGHEST ANNUAL MEAN			.94 1995
LOWEST ANNUAL MEAN			.047 1993
HIGHEST DAILY MEAN	14 ^a Aug 31	78 ^a Jun 28	144 ^a Jul 31 1989
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Mar 18 1983
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Mar 18 1983
INSTANTANEOUS PEAK FLOW		1060 Jun 28	b 2820 Jul 31 1989
INSTANTANEOUS PEAK STAGE		8.58 Jun 28	10.96 Jul 31 1989
ANNUAL RUNOFF (AC-FT)	36	679	177
10 PERCENT EXCEEDS	.00	.02	.00
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

a-No flow most of the time.

b-From rating extended to peak flow on the basis of slope-conveyance.

07126325 TAYLOR ARROYO BELOW ROCK CROSSING NEAR THATCHER, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MEAN	MEAN	SEDIMENT	MEAN	MEAN	SEDIMENT	MEAN	MEAN	SEDIMENT
	DISCHARGE	CONCEN-	DISCHARGE	DISCHARGE	CONCEN-	DISCHARGE	DISCHARGE	CONCEN-	DISCHARGE
	(CFS)	TRATION	(TONS/DAY)	(CFS)	TRATION	(TONS/DAY)	(CFS)	TRATION	(TONS/DAY)
		(MG/L)			(MG/L)			(MG/L)	
	OCTOBER			NOVEMBER			DECEMBER		
1	.00	---	---	.00	---	---	.00	---	---
2	.00	---	---	.00	---	---	.00	---	---
3	.00	---	---	.00	---	---	.00	---	---
4	.00	---	---	.00	---	---	.00	---	---
5	.00	---	---	.00	---	---	.00	---	---
6	.00	---	---	.00	---	---	.00	---	---
7	.00	---	---	.00	---	---	.00	---	---
8	.00	---	---	.00	---	---	.00	---	---
9	.00	---	---	.00	---	---	.00	---	---
10	.00	---	---	.00	---	---	.00	---	---
11	.00	---	---	.00	---	---	.00	---	---
12	.00	---	---	.00	---	---	.00	---	---
13	.00	---	---	.00	---	---	.00	---	---
14	.00	---	---	.00	---	---	.00	---	---
15	.00	---	---	.00	---	---	.00	---	---
16	.00	---	---	.00	---	---	.00	---	---
17	.00	---	---	.00	---	---	.00	---	---
18	.00	---	---	.00	---	---	.00	---	---
19	.00	---	---	.00	---	---	.00	---	---
20	.00	---	---	.00	---	---	.00	---	---
21	.00	---	---	.00	---	---	.00	---	---
22	.00	---	---	.00	---	---	.00	---	---
23	.00	---	---	.00	---	---	.00	---	---
24	.00	---	---	.00	---	---	.00	---	---
25	.00	---	---	.00	---	---	.00	---	---
26	.00	---	---	.00	---	---	.00	---	---
27	.00	---	---	.00	---	---	.00	---	---
28	.00	---	---	.00	---	---	.00	---	---
29	.00	---	---	.00	---	---	.00	---	---
30	.00	---	---	.00	---	---	.00	---	---
31	.00	---	---	.00	---	---	.00	---	---
TOTAL	0.00	---	---	0.00	---	---	0.00	---	---
	JANUARY			FEBRUARY			MARCH		
1	.00	---	---	.00	---	---	.00	---	---
2	.00	---	---	.00	---	---	.00	---	---
3	.00	---	---	.00	---	---	.00	---	---
4	.00	---	---	.00	---	---	.00	---	---
5	.00	---	---	.00	---	---	.00	---	---
6	.00	---	---	.00	---	---	.00	---	---
7	.00	---	---	.00	---	---	.00	---	---
8	.00	---	---	.00	---	---	.00	---	---
9	.00	---	---	.00	---	---	.00	---	---
10	.00	---	---	.00	---	---	.00	---	---
11	.00	---	---	.00	---	---	.00	---	---
12	.00	---	---	.00	---	---	.00	---	---
13	.00	---	---	.00	---	---	.00	---	---
14	.00	---	---	.00	---	---	.00	---	---
15	.00	---	---	.00	---	---	.00	---	---
16	.00	---	---	.00	---	---	.00	---	---
17	.00	---	---	.00	---	---	.00	---	---
18	.00	---	---	.00	---	---	.00	---	---
19	.00	---	---	.00	---	---	.00	---	---
20	.00	---	---	.00	---	---	.00	---	---
21	.00	---	---	.00	---	---	.00	---	---
22	.00	---	---	.00	---	---	.00	---	---
23	.00	---	---	.00	---	---	.00	---	---
24	.00	---	---	.00	---	---	.00	---	---
25	.00	---	---	.00	---	---	.00	---	---
26	.00	---	---	.00	---	---	.00	---	---
27	.00	---	---	.00	---	---	.00	---	---
28	.00	---	---	.00	---	---	.00	---	---
29	.00	---	---	.00	---	---	.00	---	---
30	.00	---	---	.00	---	---	.00	---	---
31	.00	---	---	.00	---	---	.00	---	---
TOTAL	0.00	---	---	0.00	---	---	0.00	---	---

07126325 TAYLOR ARROYO BELOW ROCK CROSSING NEAR THATCHER, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

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)
1	.00	---	---	.00	---	---	.00	---	---
2	.00	---	---	.00	---	---	.00	---	---
3	.00	---	---	.00	---	---	.00	---	---
4	.00	---	---	.00	---	---	.00	---	---
5	.00	---	---	.00	---	---	.00	---	---
6	.00	---	---	.00	---	---	.00	---	---
7	.00	---	---	.00	---	---	.00	---	---
8	.00	---	---	.00	---	---	.00	---	---
9	.00	---	---	.02	---	.00	.00	---	---
10	.00	---	---	.04	---	.00	.00	---	---
11	.00	---	---	.00	---	---	.00	---	---
12	.00	---	---	.00	---	---	.00	---	---
13	.00	---	---	.00	---	---	.00	---	---
14	.00	---	---	.00	---	---	.00	---	---
15	.00	---	---	.00	---	---	.00	---	---
16	.00	---	---	.00	---	---	.00	---	---
17	.00	---	---	.00	---	---	.00	---	---
18	.00	---	---	.00	---	---	.00	---	---
19	.00	---	---	.00	---	---	.00	---	---
20	.00	---	---	.00	---	---	.00	---	---
21	.00	---	---	.00	---	---	.00	---	---
22	.00	---	---	.00	---	---	.00	---	---
23	.00	---	---	.00	---	---	.00	---	---
24	.00	---	---	.00	---	---	.00	---	---
25	.00	---	---	.03	---	.00	.00	---	---
26	.00	---	---	.01	---	.00	.00	---	---
27	.00	---	---	.00	---	---	.00	---	---
28	.00	---	---	.00	---	---	.00	---	---
29	.00	---	---	.00	---	---	.00	---	---
30	.00	---	---	.00	---	---	.00	---	---
31	---	---	---	.00	---	---	---	---	---
TOTAL	0.00	---	---	0.10	---	---	0.00	---	---
		JULY		AUGUST		SEPTEMBER			
1	.00	---	---	.00	---	---	.52	303	.47
2	.00	---	---	.00	---	---	.03	---	.00
3	.00	---	---	.00	---	---	.01	---	.00
4	.00	---	---	.00	---	---	.00	---	---
5	.00	---	---	.00	---	---	.00	---	---
6	.00	---	---	.00	---	---	.00	---	---
7	.00	---	---	.00	---	---	.00	---	---
8	.00	---	---	.00	---	---	.00	---	---
9	.00	---	---	.00	---	---	.00	---	---
10	.00	---	---	.00	---	---	.00	---	---
11	.00	---	---	.00	---	---	.00	---	---
12	.00	---	---	.00	---	---	.00	---	---
13	.00	---	---	.00	---	---	.00	---	---
14	.00	---	---	.00	---	---	.00	---	---
15	.00	---	---	.00	---	---	.00	---	---
16	.00	---	---	.00	---	---	.00	---	---
17	.00	---	---	.00	---	---	.00	---	---
18	.00	---	---	.00	---	---	.00	---	---
19	.00	---	---	.00	---	---	.00	---	---
20	.00	---	---	.00	---	---	.00	---	---
21	.00	---	---	.00	---	---	.00	---	---
22	.00	---	---	.00	---	---	.00	---	---
23	.00	---	---	.00	---	---	.00	---	---
24	.00	---	---	.00	---	---	.00	---	---
25	.00	---	---	.00	---	---	.00	---	---
26	.00	---	---	.00	---	---	.00	---	---
27	.00	---	---	.00	---	---	.00	---	---
28	.00	---	---	.00	---	---	.00	---	---
29	.00	---	---	.00	---	---	.00	---	---
30	.00	---	---	3.3	512	100	.00	---	---
31	.00	---	---	14	829	55	---	---	---
TOTAL	0.00	---	---	17.30	---	---	0.56	---	---

07126485 PURGATOIRE RIVER AT ROCK CROSSING NEAR TIMPAS, CO

LOCATION.--Lat 37°37'10", long 103°35'32" in NE¹/4SE¹/4 sec.10, T.28 S., R.55 W., Las Animas County, Hydrologic Unit 11020010, on left bank at Rock Crossing, 2.1 mi upstream from Minnie Canyon, 2.4 mi downstream from Beaty Canyon, and 17 mi southeast of Timpas.

DRAINAGE AREA.--2,635 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1983 to current year.

REVISED RECORD.--WDR CO-87-1: 1984-86 (M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,350 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 23, Nov. 27 to Dec. 5, Dec. 9-25, Jan. 1-9, 11-13, 21-30, and Feb. 16, 17. Records good except those for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 30,000 acres. Peak flows are regulated to some extent by Trinidad Dam, 92 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	72	31	29	29	23	21	31	479	142	11	35
2	22	75	33	27	29	25	21	28	273	252	9.2	33
3	21	74	35	28	30	26	21	32	226	224	8.6	32
4	21	47	36	27	30	25	19	28	313	134	9.3	27
5	20	41	36	27	27	24	19	25	227	91	9.8	21
6	17	39	36	28	26	26	18	517	165	64	10	19
7	26	37	36	28	25	26	16	334	112	54	8.6	18
8	36	36	35	29	25	24	16	113	93	44	6.7	18
9	30	36	34	30	25	24	16	73	80	37	15	23
10	25	34	33	29	25	24	22	46	73	32	51	144
11	26	33	31	30	25	24	20	38	75	27	43	197
12	25	33	32	32	24	24	27	28	78	21	46	108
13	25	33	31	33	23	22	39	24	71	17	30	180
14	24	33	30	33	20	21	29	25	62	30	26	96
15	25	34	30	33	22	20	32	22	53	58	25	65
16	25	34	28	35	24	20	28	20	46	36	24	51
17	25	32	29	31	27	20	24	122	41	41	30	48
18	36	32	29	31	28	20	22	118	59	56	28	39
19	65	32	27	26	25	21	18	100	59	82	23	38
20	56	36	27	22	26	20	18	56	60	310	343	35
21	53	38	26	24	27	19	17	36	55	161	99	62
22	53	39	27	25	25	19	17	33	43	193	59	47
23	51	39	28	25	26	18	22	34	46	76	41	48
24	51	39	30	24	25	17	24	37	49	45	31	52
25	48	36	31	26	24	16	34	59	44	37	28	91
26	47	35	32	28	23	18	45	90	40	30	27	134
27	47	35	32	31	23	17	46	94	41	25	59	120
28	46	36	31	30	23	17	47	118	36	20	38	87
29	44	36	30	30	---	18	39	97	218	19	36	52
30	56	31	29	29	---	18	33	3680	107	15	35	45
31	65	---	29	31	---	19	---	1410	---	12	36	---
TOTAL	1134	1187	964	891	711	655	770	7468	3324	2385	1246.2	1965
MEAN	36.6	39.6	31.1	28.7	25.4	21.1	25.7	241	111	76.9	40.2	65.5
MAX	65	75	36	35	30	26	47	3680	479	310	343	197
MIN	17	31	26	22	20	16	16	20	36	12	6.7	18
AC-FT	2250	2350	1910	1770	1410	1300	1530	14810	6590	4730	2470	3900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1995, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	40.4	38.9	33.9	31.4	34.7	44.2	94.1	144	128	77.5	106	45.4	
MAX	74.3	52.8	42.9	41.4	56.0	104	330	585	836	186	161	98.6	
(WY)	1986	1987	1987	1984	1988	1993	1993	1987	1983	1992	1986	1993	
MIN	13.0	20.5	15.6	17.4	22.7	19.7	16.8	5.81	9.65	11.2	39.1	12.5	
(WY)	1990	1990	1991	1991	1991	1991	1989	1991	1990	1989	1985	1990	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1983 - 1995

ANNUAL TOTAL	24350.3	22700.2											
ANNUAL MEAN	66.7	62.2								63.0			
HIGHEST ANNUAL MEAN										123			1987
LOWEST ANNUAL MEAN										29.6			1989
HIGHEST DAILY MEAN	1610	Aug 20	3680	May 30	3680	May 30	3680	May 30	3680	May 30	1995		
LOWEST DAILY MEAN	8.7	Jul 16	6.7	Aug 8	6.7	Aug 8	6.7	Aug 8	6.7	Aug 8	1990		
ANNUAL SEVEN-DAY MINIMUM	11	Jul 12	8.9	Aug 2	8.9	Aug 2	8.9	Aug 2	8.9	Aug 2	1990		
INSTANTANEOUS PEAK FLOW			7280	May 30	7280	May 30	7280	May 30	7280	May 30	1992		
INSTANTANEOUS PEAK STAGE			14.97	May 30	14.97	May 30	14.97	May 30	14.97	May 30	1992		
ANNUAL RUNOFF (AC-FT)	48300	45030	45610							45610			
10 PERCENT EXCEEDS	147	93	126							126			
50 PERCENT EXCEEDS	34	31	36							36			
90 PERCENT EXCEEDS	22	19	15							15			

a-Also occurred Jul 1-9, 1990.

b-From rating curve extended above 5450 ft³/s, on basis of slope-area measurement of peak flow.

c-From floodmarks.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 WILL BE PUBLISHED IN A SUBSEQUENT REPORT.

07126500 PURGATOIRE RIVER AT NINEMILE DAM, NEAR HIGBEE, CO

LOCATION.--Lat 37°42'53", long 103°30'38", in NW¹/₄ sec.7, T.27 S., R.54 W., Otero County, Hydrologic Unit 11020010, on left bank at Ninemile Dam, 4 mi southwest of Higbee, and 5.5 mi upstream from Smith Canyon. Prior to Apr. 21, 1978 gage located 850 ft, upstream.

DRAINAGE AREA.--2,752 mi².

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only for some periods, published in WSP 1311. Statistical summary computed for 1977 to current year.

REVISED RECORDS.--WSP 1311: 1934 (M), 1936 (M), 1941-42 (M), 1948-49 (M). WSP 1731: 1929 (M).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,240.59 ft above sea level, supplementary adjustment of 1960. See WSP 1711 or 1731 for history of changes prior to Dec. 6, 1956. Dec. 6, 1956 to Apr. 20, 1978, at site 850 ft, upstream.

REMARKS.--Estimated daily discharges: Nov. 15-28, Mar. 2-6, May 31 to June 6 and July 25 to Aug. 3. Records fair except for flows over 2,000 ft³/s and for estimated daily discharges, which are poor. Diversions for irrigation of about 32,000 acres above station. Discharge computed by combining discharge of river below Ninemile Dam and Ninemile canal.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	63	34	32	32	25	22	30	580	136	10	40
2	17	54	38	25	33	14	23	29	700	246	9.4	38
3	16	64	39	29	34	13	22	29	500	323	6.7	37
4	23	40	41	25	34	17	24	31	380	184	6.0	33
5	22	35	39	34	33	17	20	27	275	101	5.4	25
6	15	35	39	36	32	17	31	299	208	55	5.2	19
7	15	35	37	31	31	6.5	21	509	126	44	5.2	20
8	34	33	37	41	31	16	20	170	96	36	6.9	20
9	24	32	37	38	30	22	18	116	84	31	6.8	21
10	21	32	36	34	29	22	25	74	76	31	38	106
11	21	31	32	33	27	25	23	58	73	27	48	252
12	21	32	34	35	28	24	23	49	75	23	47	125
13	19	31	49	37	26	26	36	41	75	21	36	181
14	19	31	40	35	28	26	31	42	67	22	30	119
15	20	33	36	35	23	20	35	45	50	49	26	67
16	21	36	39	36	31	13	36	38	42	44	26	57
17	22	32	35	33	33	18	28	254	38	39	25	62
18	25	30	35	33	32	20	26	182	38	43	29	46
19	49	29	36	30	30	20	23	151	66	75	24	51
20	54	44	33	26	29	20	20	85	50	405	260	47
21	48	45	31	28	29	20	18	62	53	119	97	58
22	48	43	30	36	28	20	16	56	42	275	62	53
23	45	47	32	33	25	20	19	49	42	86	44	48
24	42	46	35	30	25	22	22	51	58	51	33	50
25	45	45	36	32	25	20	29	63	44	43	28	89
26	45	44	33	33	25	20	37	101	37	38	27	137
27	45	46	34	33	24	21	45	126	38	28	54	133
28	47	42	34	36	24	18	44	144	74	21	39	93
29	43	40	33	36	---	17	38	128	233	18	36	57
30	54	36	34	35	---	17	32	2050	129	16	37	47
31	54	---	32	34	---	20	---	2000	---	11	34	---
TOTAL	992	1186	1110	1024	811	596.5	807	7089	4349	2641	1141.6	2131
MEAN	32.0	39.5	35.8	33.0	29.0	19.2	26.9	229	145	85.2	36.8	71.0
MAX	54	64	49	41	34	26	45	2050	700	405	260	252
MIN	15	29	30	25	23	6.5	16	27	37	11	5.2	19
AC-FT	1970	2350	2200	2030	1610	1180	1600	14060	8630	5240	2260	4230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1995, BY WATER YEAR (WY)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	32.0	27.1	25.7	26.3	28.5	34.4	83.4	140	123	110	167	60.2							
MAX	79.9	43.7	40.0	40.5	65.7	93.4	333	489	640	448	829	268							
(WY)	1986	1987	1987	1993	1988	1987	1983	1987	1983	1981	1981	1981							
MIN	.000	.000	4.45	5.82	11.7	6.06	1.19	5.87	4.35	16.6	32.6	.90							
(WY)	1978	1977	1979	1977	1977	1977	1978	1991	1977	1994	1980	1978							

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1977 - 1995

ANNUAL TOTAL	24549.5	23878.1		
ANNUAL MEAN	67.3	65.4		^a 71.8
HIGHEST ANNUAL MEAN				161
LOWEST ANNUAL MEAN				26.6
HIGHEST DAILY MEAN	805	Aug 20	2050	May 30
LOWEST DAILY MEAN	5.4	Jul 17	^c 5.2	Aug 6
ANNUAL SEVEN-DAY MINIMUM	10	Jul 23	6.0	Aug 3
INSTANTANEOUS PEAK FLOW			5490	May 31
INSTANTANEOUS PEAK STAGE			6.14	May 31
ANNUAL RUNOFF (AC-FT)	48690	47360		51990
10 PERCENT EXCEEDS	160	103		139
50 PERCENT EXCEEDS	34	34		30
90 PERCENT EXCEEDS	20	20		6.5

a-Average discharge for 52 years (water years 1925-76), 94.5 ft³/s; 68470 acre-ft/yr, prior to completion of Trinidad Dam.

b-Maximum daily discharge for period of record, 27000 ft³/s, Aug 7, 1929.

c-Also occurred Aug. 7.

d-No flow at times most years.

e-Maximum discharge and stage for period of record, 105000 ft³/s, estimated, Jun 18, 1965, gage height, 19.6 ft, from floodmarks.

07128500 PURGATOIRE RIVER NEAR LAS ANIMAS, CO

LOCATION.--Lat 38°02'02", long 103°12'00", in NE¹/4SW¹/4 sec.23, T.23 S., R.52 W., Bent County, Hydrologic Unit 11020010, on right bank at downstream side of bridge on State Highway 101, 2.3 mi southeast of courthouse in Las Animas, and 4.5 mi upstream from mouth.

DRAINAGE AREA.--3,318 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to September 1889, July to October 1909 (gage heights and discharge measurements only), January 1922 to September 1931, July 1948 to current year. Monthly discharge only for some periods, published in WSP 1311. Published as Purgatoire Creek at Las Animas in 1889 and as Purgatory River near Las Animas in 1909. Statistical summary computed for 1978 to current year, subsequent to completion of Trinidad Reservoir.

REVISED RECORDS.--WSP 1241: 1927(M); WDR CO-84-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 3,878.04 ft above sea level. See WSP 1731 for history of changes prior to Oct. 1, 1955. Oct. 1, 1955 to July 11, 1966, at datum 3.00 ft higher. Supplementary water-stage recorder at site 1.6 mi downstream at different datum July 12 to Nov. 17, 1966. Nov. 18, 1966, to May 4, 1982, at datum 3.1 ft lower.

REMARKS.--Estimated daily discharges: Jan. 3-6, Feb. 13-14, 20-23, and Mar. 1-3. Records good except for estimated daily discharges, which are poor. Flow regulated to some extent since January 1975 by Trinidad Lake near Trinidad, upstream. Diversions for irrigation of about 36,000 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1860 occurred Oct. 1, 1904, discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	43	38	28	36	17	14	34	1030	123	15	13
2	13	43	30	25	36	16	14	23	655	127	8.5	14
3	13	33	25	25	34	22	13	25	978	224	8.4	13
4	13	55	31	26	33	26	11	22	804	209	8.7	18
5	241	41	34	30	33	27	9.7	20	421	140	8.6	20
6	39	31	35	34	32	25	9.7	32	289	120	7.9	16
7	21	27	37	37	30	25	10	348	229	95	7.8	14
8	20	25	37	41	31	26	8.1	201	167	73	7.1	19
9	21	25	38	42	30	22	7.8	118	139	62	8.7	20
10	29	24	36	41	29	21	9.4	91	118	58	8.3	30
11	25	23	35	38	29	16	22	59	108	54	8.5	55
12	21	21	36	35	25	18	21	43	100	35	6.6	129
13	20	26	36	36	24	15	10	26	99	21	7.4	93
14	28	24	37	38	29	15	7.5	13	119	10	9.8	86
15	22	17	38	37	35	18	18	9.7	84	22	7.2	85
16	25	16	36	33	32	38	10	9.6	56	24	6.9	34
17	30	16	37	33	27	29	7.3	25	45	35	6.7	30
18	32	18	36	36	34	24	7.2	269	41	25	7.2	34
19	32	17	37	33	33	16	7.5	140	35	21	9.2	34
20	43	24	35	35	32	19	8.2	113	47	63	15	27
21	58	31	34	32	30	22	20	73	46	236	118	38
22	56	33	34	28	29	32	21	49	42	115	39	54
23	56	32	33	28	26	35	21	38	33	150	18	60
24	54	35	33	34	26	19	22	30	29	81	12	44
25	53	37	36	36	25	13	19	32	34	41	7.0	38
26	53	34	37	33	24	14	21	67	30	24	9.7	54
27	51	32	37	32	21	22	24	190	20	29	13	96
28	45	35	34	41	17	15	30	97	16	31	17	93
29	41	34	36	43	---	11	33	110	149	34	13	79
30	41	35	36	40	---	11	44	435	192	31	14	59
31	45	---	36	38	---	11	---	2280	---	22	13	---
TOTAL	1260	887	1090	1068	822	640	480.4	5022.3	6155	2335	447.2	1399
MEAN	40.6	29.6	35.2	34.5	29.4	20.6	16.0	162	205	75.3	14.4	46.6
MAX	241	55	38	43	36	38	44	2280	1030	236	118	129
MIN	13	16	25	25	17	11	7.2	9.6	16	10	6.6	13
AC-FT	2500	1760	2160	2120	1630	1270	953	9960	12210	4630	887	2770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1995, BY WATER YEAR (WY)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	29.7	32.2	27.7	30.4	31.0	38.3	85.8	136	121	69.0	120	46.7						
MAX	82.6	59.1	41.9	48.0	56.2	125	418	614	724	263	761	224						
(WY)	1986	1987	1994	1993	1988	1987	1983	1987	1983	1981	1981	1981						
MIN	1.58	1.90	2.38	4.72	5.65	5.26	3.53	5.41	8.76	7.67	3.76	3.14						
(WY)	1978	1979	1979	1979	1979	1978	1978	1991	1990	1994	1980	1978						

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1978 - 1995

ANNUAL TOTAL	21963.3	21605.9																
ANNUAL MEAN	60.2	59.2																
HIGHEST ANNUAL MEAN																		
LOWEST ANNUAL MEAN																		
HIGHEST DAILY MEAN	784	Aug 21					2280	May 31										
LOWEST DAILY MEAN	3.2	Aug 2					6.6	Aug 12										
ANNUAL SEVEN-DAY MINIMUM	4.1	Jul 27					7.4	Aug 12										
INSTANTANEOUS PEAK FLOW							2820	May 31										
INSTANTANEOUS PEAK STAGE							10.20	May 31										
ANNUAL RUNOFF (AC-FT)	43560						42860											
10 PERCENT EXCEEDS	146						103											
50 PERCENT EXCEEDS	34						32											
90 PERCENT EXCEEDS	9.2						11											

a-Average discharge for 37 years (water years 1923-31, 1949-76), 116 ft³/s; 84040 acre-ft/yr, prior to completion of Trinidad Reservoir.

b-Maximum daily discharge for period of record, 46300 ft³/s, May 20, 1955.

c-No flow at times in 1924-25, 1927, 1949, and 1974.

d-Maximum discharge and stage for period of record, 70000 ft³/s, May 20, 1955, gage height, 20.00 ft, from rating curve extended above 38000 ft³/s, at different datum.

07128500 PURGATOIRE RIVER NEAR LAS ANIMAS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1985 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1985 to current year.
 WATER TEMPERATURE: December 1985 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for daily specific conductance are fair and daily water temperature are good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 6,320 microsiemens, July 31, 1989; minimum, 365 microsiemens, July 21, 1990.
 WATER TEMPERATURE: maximum, 34.7°C, Aug. 18, 1994; minimum, 0.0°C, many days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 5,000 microsiemens, Apr. 11; minimum, 708 microsiemens, May 31.
 WATER TEMPERATURE: Maximum, 32.9°C, Aug. 8; minimum, 0.0°C, many days during winter.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3110	2980	3030	2900	2790	2850	3690	3560	3630	3840	3720	3790
2	3420	3110	3320	2920	2800	2850	3730	3590	3670	4030	3810	3920
3	3460	3320	3390	2950	2820	2900	3810	3720	3770	4000	3830	3930
4	3640	3040	3420	2900	2690	2760	3790	3610	3700	4100	3830	3980
5	3440	---	---	2800	2720	2770	3770	3610	3700	4100	3950	4030
6	2270	1960	2120	2800	2720	2760	3850	3750	3800	4010	3880	3940
7	2610	2270	2540	2830	2730	2810	3790	3730	3760	4000	3880	3960
8	2560	2320	2380	2780	2660	2720	3820	3780	3800	3890	3720	3820
9	2610	2400	2520	2740	2650	2710	3820	3780	3800	3720	3570	3620
10	3080	2230	2580	2750	2510	2630	3880	3760	3820	3700	3600	3660
11	2870	2560	2690	2720	2520	2630	3890	3780	3840	3850	3610	3750
12	3010	2690	2820	2690	2420	2530	3840	3770	3810	3830	3740	3780
13	3190	2900	3010	2740	2550	2680	3950	3810	3870	3790	3750	3770
14	3490	3190	3410	2810	2660	2720	3950	3840	3890	3860	3770	3820
15	3430	2800	3010	3390	2810	3150	3900	3830	3860	3850	3760	3830
16	3440	3080	3320	3430	3250	3340	3950	3810	3880	3860	3830	3850
17	3320	2890	3170	3280	3230	3250	3920	3800	3860	3880	3840	3860
18	3090	3030	3050	3250	3190	3230	3930	3830	3880	3890	3840	3860
19	3060	2990	3030	3540	3240	3370	3960	3870	3920	3850	3780	3820
20	3450	3060	3240	3660	3540	3600	3950	3860	3910	3820	3710	3770
21	3370	3070	3220	3690	3610	3650	3900	3800	3850	3770	3720	3740
22	3070	2790	2890	3700	3650	3670	3850	3770	3830	3810	3750	3770
23	2950	2840	2920	3700	3600	3660	3870	3800	3830	3890	3770	3820
24	3010	2920	2960	3630	3550	3600	3850	3810	3830	3940	3730	3810
25	3100	3000	3040	3630	3550	3580	3840	3720	3780	3860	3680	3780
26	3110	3020	3080	3670	3600	3640	3740	3700	3720	3730	3600	3680
27	3110	3020	3080	3680	3600	3650	3720	3600	3670	3640	3540	3590
28	3080	2830	2920	3690	3660	3680	3690	3660	3670	3590	3410	3490
29	2860	2700	2760	3720	3650	3690	3680	3650	3660	3480	3450	3470
30	2790	2750	2780	3680	3610	3650	3730	3680	3710	3470	3400	3430
31	2820	2720	2770	---	---	---	3730	3670	3720	3440	3410	3420
MONTH	3640	---	---	3720	2420	3160	3960	3560	3790	4100	3400	3770

07128500 PURGATOIRE RIVER NEAR LAS ANIMAS, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3450	3330	3420	4110	4020	4080	3960	3650	3770	3050	2980	3010
2	3600	3300	3410	4040	3870	3970	3750	3630	3680	3040	2800	2940
3	3890	3600	3780	4070	3870	3980	4100	3740	3830	3230	2860	3100
4	3890	3870	3880	4020	3850	3930	4310	4090	4190	3140	2810	3000
5	3890	3850	3880	4000	3880	3940	4360	4210	4300	3180	3010	3100
6	3870	3820	3840	4220	4000	4150	4510	4280	4430	3090	2870	2990
7	3830	3800	3810	4130	3930	4010	4630	4440	4540	2850	---	---
8	3820	3790	3810	3990	3930	3970	4730	---	---	---	---	---
9	3840	3810	3830	4040	3970	4010	4580	4420	4460	1960	---	---
10	3850	3820	3840	4000	3970	3990	4980	4400	4570	2120	1950	2000
11	3830	3820	3820	4080	3960	4000	5000	2840	3980	2350	2120	2200
12	3920	3810	3870	4130	4010	4090	2840	2660	2770	2520	2340	2430
13	3930	3870	3900	4090	3990	4040	3510	2770	3130	---	2520	---
14	3920	3720	3820	4340	4090	4190	4230	3510	3970	---	---	---
15	3860	3710	3790	4400	4010	4350	4450	3370	3770	---	---	---
16	3900	3770	3830	4010	2350	3010	3990	3600	3830	4150	---	---
17	3930	3890	3910	3970	3510	3690	3920	3710	3860	4030	2220	3420
18	3960	3860	3910	4050	3500	3770	4190	3830	4060	2630	798	1480
19	3930	3860	3910	3680	3460	3550	4550	4130	4380	1440	962	1170
20	3940	3850	3900	3600	3440	3510	4630	4450	4550	1620	1290	1420
21	3870	3830	3850	3600	3390	3480	4590	2890	3710	1860	1400	1690
22	3880	3840	3860	3560	3080	3370	3380	2920	3110	2440	1860	2120
23	3940	3860	3890	3480	3020	3200	2920	2790	2860	2720	2440	2620
24	3900	3840	3870	3570	3240	3400	2790	2470	2560	2940	2590	2760
25	3970	3880	3910	3740	3560	3690	2780	2510	2670	3100	2940	3050
26	3990	3860	3930	4200	3620	3880	3050	2700	2830	3110	1870	2860
27	3950	3900	3920	3650	3120	3320	3340	2960	3100	1870	1290	1370
28	4090	3940	4010	3550	3150	3400	3270	2660	3020	1480	1420	1460
29	---	---	---	3930	3550	3810	3370	2990	3160	1620	1470	1540
30	---	---	---	3870	3760	3830	3350	3000	3110	1620	1430	1530
31	---	---	---	3980	3830	3920	---	---	---	1610	708	1070
	JUNE			JULY			AUGUST			SEPTEMBER		
1	1500	938	1230	2740	2200	2510	3700	2840	3070	3110	2930	3030
2	1970	1130	1660	2760	2000	2430	4700	3650	4330	3260	2890	3030
3	2340	763	1800	2490	1330	1910	4760	4300	4520	3110	2850	2920
4	2420	733	1500	2890	1870	2320	4340	4040	4150	3340	2500	2800
5	2720	2050	2420	2460	1710	2170	4350	3870	4040	2550	2460	2500
6	2630	2310	2490	2110	1870	2000	4510	3760	4100	2660	2240	2550
7	2500	2140	2320	2270	2110	2170	4780	3860	4350	2920	2640	2800
8	2660	2330	2470	2220	2130	2180	4320	3950	4110	3630	2920	3300
9	3140	2660	2940	2220	2100	2160	4080	3850	3940	3200	2000	2750
10	3290	2950	3100	2190	2130	2160	4140	3820	3990	2710	2300	2470
11	3370	3070	3300	2230	2070	2110	4130	3680	3870	4040	2080	2340
12	3800	3340	3510	2480	2230	2390	3960	3740	3850	2970	2340	2570
13	3820	3220	3750	2770	2470	2610	4430	3810	4070	2410	2260	2320
14	3670	3040	3140	---	---	---	4970	4410	4690	3000	1610	2290
15	3730	3190	3540	---	---	---	4880	4030	4610	2590	1550	1990
16	4100	3730	3970	---	---	---	4450	3800	4080	2790	2590	2720
17	4160	3830	4000	---	---	---	4580	3830	4080	2810	2610	2700
18	4330	3990	4180	2660	2380	2520	4370	3680	4020	2630	2290	2540
19	4560	4330	4420	3350	2580	2930	4490	3550	3990	2670	2230	2450
20	4370	3320	3770	3900	2690	3100	4050	3470	3730	2710	2530	2630
21	3840	3530	3620	3360	1110	1730	4140	2110	2880	2720	2240	2530
22	4260	3730	3960	1700	1150	1470	2700	2140	2480	2620	2080	2190
23	4250	2930	3670	1690	1170	1400	2630	2240	2550	2510	2060	2180
24	4470	2970	4090	1790	1500	1590	2870	2540	2690	2210	2050	2080
25	4400	2130	4080	2380	1770	1930	3430	2860	3160	2440	2200	2300
26	3100	1740	2600	2450	2140	2360	3590	3080	3350	2660	2410	2490
27	2680	1070	1360	2340	2050	2240	4000	3130	3580	2970	2540	2730
28	---	---	---	2250	1930	2080	3550	2790	3080	3030	2760	2910
29	3460	1140	1620	2360	1900	2080	3360	2690	2930	3040	2820	2960
30	2890	1490	2300	2360	1630	2030	2910	2620	2750	3050	2470	2800
31	---	---	---	2890	2250	2450	3000	2510	2710	---	---	---
MONTH	---	---	---	---	---	---	4970	2110	3670	4040	1550	2600

07128500 PURGATOIRE RIVER NEAR LAS ANIMAS, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.4	13.1	15.2	23.9	16.9	19.8	28.1	17.6	22.0	31.0	19.6	24.5
2	19.8	16.5	18.2	25.4	17.4	21.4	31.2	17.0	23.4	29.9	19.8	24.1
3	17.4	11.7	14.6	24.0	17.6	21.9	31.2	18.4	24.0	30.5	19.9	24.6
4	19.2	12.9	15.9	23.4	16.6	20.0	30.2	19.5	23.9	30.0	20.7	24.7
5	21.1	17.4	19.1	25.0	18.2	21.6	30.6	18.7	23.8	29.6	19.8	24.2
6	24.0	18.9	21.2	26.4	19.2	22.7	31.9	19.3	24.9	29.0	20.0	23.6
7	23.8	19.0	21.3	28.0	20.5	24.1	32.5	19.7	25.3	22.3	17.9	19.4
8	21.4	16.1	18.6	27.9	21.1	24.5	32.9	19.7	25.8	26.4	16.8	20.5
9	21.9	14.9	18.1	28.2	21.1	24.4	30.6	21.9	25.4	20.1	16.9	18.3
10	---	16.2	---	27.3	20.8	22.8	32.0	20.4	25.6	23.2	16.4	18.9
11	---	---	---	26.1	20.7	23.6	32.7	21.0	26.0	24.9	17.3	20.4
12	25.3	---	---	24.2	20.5	22.2	31.4	21.4	25.6	22.8	18.0	20.4
13	27.4	17.3	22.4	---	---	---	31.5	21.2	25.8	23.1	17.6	20.1
14	27.6	20.8	24.1	---	---	---	26.7	20.8	23.2	23.1	17.3	20.1
15	26.9	21.1	23.9	---	---	---	31.5	19.8	24.9	22.8	18.0	20.2
16	25.0	17.9	21.1	---	---	---	32.3	20.2	25.4	22.8	17.6	19.9
17	23.5	17.1	20.0	---	---	---	32.8	20.8	25.8	23.7	16.4	19.7
18	25.6	16.6	20.6	26.2	19.5	22.8	31.8	21.1	25.7	23.6	17.2	20.0
19	27.7	18.0	22.1	24.8	18.8	21.3	24.7	19.6	21.6	20.2	16.1	18.3
20	27.0	18.7	22.7	29.1	19.4	24.2	29.9	18.5	23.6	21.1	13.4	16.5
21	25.5	19.4	21.9	26.1	21.8	23.9	26.7	20.6	24.0	13.4	10.2	11.3
22	27.4	17.5	22.0	27.8	20.5	24.0	30.0	22.3	25.3	14.8	8.6	11.5
23	27.7	19.5	23.1	27.2	21.5	24.0	30.2	20.7	24.8	16.6	10.6	13.5
24	25.6	18.5	21.7	27.1	19.8	23.4	30.8	20.0	24.6	14.5	12.7	13.5
25	28.3	18.7	23.1	28.5	19.9	23.8	31.2	20.0	24.8	17.4	10.6	13.8
26	29.8	19.7	24.0	29.8	19.2	24.1	30.5	21.2	24.7	17.1	11.3	14.1
27	30.1	18.6	24.1	29.0	19.2	23.8	30.8	20.9	25.2	19.1	12.9	16.0
28	25.2	20.7	22.5	29.3	19.8	24.0	30.5	21.0	25.5	19.9	15.6	17.6
29	21.1	17.7	19.1	28.5	21.5	24.2	31.5	20.8	25.6	18.7	15.2	17.0
30	19.7	17.9	18.7	27.9	19.2	23.2	28.1	20.0	24.1	18.3	14.3	16.0
31	---	---	---	24.8	18.6	21.6	30.6	19.8	24.4	---	---	---
MONTH	---	---	---	---	---	---	32.9	17.0	24.7	31.0	8.6	18.8

07130000 JOHN MARTIN RESERVOIR AT CADDOA, CO

LOCATION.--Lat 38°04'05", long 102°56'13", in NE¹/4NW¹/4 sec.8, T.23 S., R.49 W., Bent County, Hydrologic Unit 11020009, at dam on Arkansas River at Caddoa, 3.2 mi southeast of Hasty, and 58 mi upstream from Colorado-Kansas State line.

DRAINAGE AREA.--18,915 mi², of which 785 mi² is probably noncontributing.

PERIOD OF RECORD.--January 1943 to current year. Month-end contents only prior to November 1943, published in WSP 1311.

GAGE.--Water-stage recorder with satellite telemetry for elevations above 3,784 ft (48 acre-feet), and nonrecording gage read once daily for those below. Datum of gage is 3,760.00 ft above sea level, (levels by U.S. Corps of Engineers); gage readings have been reduced to elevations above sea level.

REMARKS.--No estimated contents. Records good. Reservoir is formed by concrete and earthfill dam. Storage began while dam was under construction prior to 1943, and record of contents began Jan. 1, 1943. Capacity (based on 1994 resurvey used from Nov. 1, 1994) 605,100 acre-ft, at elevation 3,870.00 ft, top of spillway gates, of which 345,700 acre-ft between elevations 3779.26 ft, elevation of no contents, and 3851.87 ft, is reserved for flood control. Contents table shown is from the latest survey of 1994. No dead storage. Figures given represent total contents.

COOPERATION.--Capacity tables provided by U.S. Army, Corps of Engineers.

EXTREMES (AT 2400) FOR PERIOD OF RECORD.--Maximum contents, 429,600 acre-ft, Aug. 25, 1965, elevation, 3,856.16 ft; no contents at times many years.

EXTREMES (AT 2400) FOR CURRENT YEAR.--Maximum contents, 368,000 acre-ft, July 25, elevation, 3,853.78 ft; minimum contents, 65,400 acre-ft, Nov 1, elevation, 3,814.93 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

3,785.0	193	3,820.0	87,700
3,790.0	2,400	3,830.0	146,000
3,795.0	8,480	3,840.0	224,000
3,800.0	18,400	3,850.0	324,000
3,810.0	47,000	3,860.0	450,000

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67800	65400	76200	87300	100000	109000	113000	102000	153000	357000	348000	304000
2	67300	65800	76700	87500	100000	109000	113000	102000	160000	356000	346000	302000
3	66700	66000	77000	87700	101000	109000	112000	102000	168000	357000	345000	299000
4	66400	66500	77400	88100	101000	110000	111000	102000	179000	359000	345000	297000
5	66900	66600	77700	88300	101000	110000	110000	102000	190000	360000	344000	294000
6	66900	67100	78200	88600	102000	110000	109000	102000	199000	362000	343000	292000
7	66700	67300	78600	89100	102000	110000	109000	102000	206000	364000	342000	289000
8	66500	67500	79000	89500	102000	111000	108000	103000	211000	366000	341000	287000
9	66200	67600	79400	90000	103000	111000	107000	103000	218000	367000	339000	285000
10	66300	67900	79700	90400	103000	111000	106000	103000	226000	365000	338000	283000
11	66200	68100	80100	90900	103000	112000	106000	103000	234000	363000	337000	282000
12	66000	68400	80300	91200	103000	112000	105000	103000	243000	362000	335000	281000
13	65800	68500	80800	91600	104000	112000	104000	102000	252000	360000	334000	280000
14	65700	68700	81200	91900	104000	113000	103000	102000	260000	359000	333000	279000
15	65700	69000	81600	92300	104000	113000	102000	102000	267000	359000	331000	278000
16	65800	69700	82000	92600	105000	113000	102000	103000	272000	358000	330000	277000
17	65900	70200	82300	92900	105000	113000	102000	104000	278000	357000	328000	276000
18	65900	70600	82600	93300	105000	114000	101000	105000	284000	357000	327000	276000
19	65900	71000	83000	93600	106000	114000	100000	108000	290000	358000	325000	274000
20	65900	71600	83400	94200	106000	114000	100000	111000	296000	359000	324000	274000
21	65900	72100	83600	94700	106000	114000	101000	114000	302000	363000	324000	273000
22	65900	72600	84000	95200	107000	113000	102000	116000	307000	366000	323000	272000
23	65900	73000	84300	95700	107000	113000	102000	116000	313000	367000	322000	272000
24	65700	73500	84600	96200	107000	113000	102000	117000	318000	368000	321000	271000
25	65700	73900	84900	96600	107000	113000	102000	118000	323000	368000	319000	271000
26	65700	74400	85300	97400	108000	113000	103000	120000	329000	367000	317000	270000
27	65800	74700	85600	97900	108000	113000	103000	125000	335000	365000	315000	270000
28	65800	75100	85900	98500	108000	113000	102000	129000	342000	361000	313000	270000
29	65700	75500	86200	99000	---	113000	102000	134000	349000	358000	311000	269000
30	65700	75900	86600	99300	---	113000	102000	139000	354000	355000	309000	268000
31	66000	---	87000	99700	---	113000	---	145000	---	351000	307000	---
MEAN	66100	70100	81800	92900	104000	112000	105000	111000	262000	361000	330000	280000
MAX	67800	75900	87000	99700	108000	114000	113000	145000	354000	368000	348000	304000
MIN	65700	65400	76200	87300	100000	109000	100000	102000	153000	351000	307000	268000
CAL YR 1994	MEAN	89800	MAX	152000	MIN	65400						
WTR YR 1995	MEAN	165000	MAX	368000	MIN	65400						

07130500 ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR, CO

LOCATION.--Lat 38°03'59", long 102°55'55", in NW¹/4NE¹/4 sec.8, T.23 S., R.49 W., Bent County, Hydrologic Unit 11020009, on right bank 0.2 mi downstream from John Martin Dam, 2.6 mi upstream from Caddoa Creek, and 3.5 mi southeast of Hasty.

DRAINAGE AREA.--18,915 mi², of which 785 mi² is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1938 to current year. Published as "at Caddoa" prior to October 1947.

REVISED RECORDS.--WSP 1241: 1942(M). WSP 1341: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Datum of gage is 3,737.40 ft above sea level. Prior to Feb. 22, 1940, at site 3 mi upstream at datum 22.83 ft higher. Feb. 22, 1940 to Feb. 4, 1943, at site 700 ft upstream, at datum 3.64 ft higher, Feb. 5, 1943 to Apr. 8, 1975, at site 1.5 mi downstream at datum approximately 27.5 ft lower.

REMARKS.--Estimated daily discharges: Mar. 2-4. Records good except those for Nov. 1 to Mar. 31, which are poor. Storage diversions upstream from station for irrigation of about 438,000 acres and for flood control. Flow completely regulated by John Martin Dam (station 07130000) 0.2 mi upstream since Oct. 1948.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	326	2.8	2.5	2.5	2.0	2.2	126	427	6.7	2530	1930	1190
2	326	2.5	2.5	2.5	2.1	2.2	126	428	71	2940	1220	1280
3	327	2.5	2.5	21	2.2	2.2	344	433	164	2980	743	1280
4	317	2.5	2.5	18	2.2	2.2	482	451	67	2990	761	1280
5	198	2.5	2.5	2.8	2.2	2.2	477	457	6.9	3000	761	1240
6	280	2.5	2.5	2.8	2.2	2.2	481	416	6.7	2930	762	1170
7	296	2.5	2.5	2.6	2.2	2.2	500	386	6.7	2990	733	1140
8	294	2.5	2.5	2.5	2.2	2.2	507	385	6.7	3160	703	1160
9	291	2.5	2.5	2.5	2.2	2.2	503	328	6.3	3150	702	1170
10	292	2.5	2.5	2.5	2.2	2.2	393	304	6.4	3060	702	1180
11	302	2.5	2.5	2.4	2.2	2.2	366	306	7.6	2980	706	956
12	310	2.5	2.5	2.2	2.2	2.4	450	338	71	2980	704	675
13	307	2.5	2.5	2.2	2.2	33	507	380	165	3020	703	668
14	308	2.5	2.5	2.2	2.3	24	481	380	189	3040	698	655
15	309	2.5	2.5	2.2	2.4	2.4	467	397	239	2550	694	644
16	308	2.5	2.5	2.2	2.3	2.2	466	442	279	3030	703	626
17	314	2.5	2.5	2.2	2.2	2.2	470	408	299	3020	705	616
18	378	2.5	2.5	2.2	2.2	2.1	513	365	301	3020	692	570
19	418	2.5	2.4	2.4	2.2	2.2	530	411	373	3000	679	505
20	416	2.5	2.4	2.5	2.1	72	505	436	451	3010	679	507
21	420	2.5	2.5	2.5	2.1	145	378	441	501	3010	691	510
22	416	2.5	2.5	2.5	2.2	180	298	445	573	3020	705	501
23	421	2.5	2.5	2.5	2.2	152	298	444	649	3010	707	499
24	423	2.5	2.7	2.3	2.3	122	300	397	663	2990	712	500
25	413	2.5	2.8	2.2	2.5	126	299	306	641	3020	878	446
26	408	2.5	2.7	2.1	2.5	123	298	273	596	3040	1070	399
27	389	2.5	2.5	2.2	2.5	126	321	95	602	3030	1070	399
28	384	2.5	2.5	2.2	2.5	126	368	6.7	602	2610	1080	407
29	404	2.5	2.5	2.2	---	126	414	6.9	847	2200	1090	406
30	399	2.5	2.5	2.1	---	126	429	7.2	1610	2190	1090	403
31	256	---	2.5	2.0	---	126	---	7.0	---	2230	1100	---
TOTAL	10650	75.3	78.0	107.2	62.8	1644.7	12097	10306.8	10007.0	89730	26173	22982
MEAN	344	2.51	2.52	3.46	2.24	53.1	403	332	334	2895	844	766
MAX	423	2.8	2.8	21	2.5	180	530	457	1610	3160	1930	1280
MIN	198	2.5	2.4	2.0	2.0	2.1	126	6.7	6.3	2190	679	399
AC-FT	21120	149	155	213	125	3260	23990	20440	19850	178000	51910	45580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1995, BY WATER YEAR (WY)

	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
MEAN	196	23.3	12.1	6.73	14.1	30.1	410	429	540	679	575	322															
MAX	565	217	281	173	477	410	1174	2576	2665	2895	2127	1007															
(WY)	1949	1966	1966	1966	1966	1986	1987	1987	1987	1995	1965	1984															
MIN	11.4	.85	.64	.62	.75	1.06	2.43	34.2	52.0	86.1	22.6	6.69															
(WY)	1975	1977	1977	1977	1977	1980	1973	1975	1954	1963	1960	1974															

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1949 - 1995
ANNUAL TOTAL	116650.9	183913.8	
ANNUAL MEAN	320	504	^a 271
HIGHEST ANNUAL MEAN			745
LOWEST ANNUAL MEAN			82.5
HIGHEST DAILY MEAN	1190	3160	3830
LOWEST DAILY MEAN	^b 1.8	^c 2.0	^d .36
ANNUAL SEVEN-DAY MINIMUM	1.9	2.1	^e .36
INSTANTANEOUS PEAK FLOW		3850	^f 40000
INSTANTANEOUS PEAK STAGE		7.80	^f 10.46
ANNUAL RUNOFF (AC-FT)	231400	364800	196400
10 PERCENT EXCEEDS	821	1260	850
50 PERCENT EXCEEDS	326	298	46
90 PERCENT EXCEEDS	2.3	2.2	2.0

a-Average discharge for 5 years (water years 1939-43), 628 ft³/s, unadjusted; 455000 acre-ft/yr, during construction of John Martin Dam.

b-Also occurred Jan 13.

c-Also occurred Feb. 1.

d-No flow at times in 1945-47. Minimum daily prior to construction of John Martin Dam, 5 ft³/s, Jul 16, 1939.

e-Site and datum then in use, from rating curve extended above 12000 ft³/s, on basis of flow-over-dam and critical-depth measurement of peak flow.

f-Site and datum then in use.

07130500 ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1985 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1985 to current year.
 WATER TEMPERATURE: December 1985 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records for daily specific conductance and water temperature are good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 3,540 microsiemens, Feb. 26, 1986; minimum, 1,060 microsiemens, Aug. 26 to Sept. 4, 1995.
 WATER TEMPERATURE: Maximum, 27.9°C, June 10, 1989; minimum, 0.0°C, many days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 2,710 microsiemens, Feb. 13 and Mar. 7; minimum, 1,060 microsiemens, Aug. 26 to Sept. 4.
 WATER TEMPERATURE: Maximum, 26.5°C, June. 6; minimum, 0.8°C, Feb. 12.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1660	1650	1660	1880	1850	1860	2400	2360	2390	2660	2550	2610
2	1660	1650	1660	1880	1860	1870	2410	2380	2400	2630	2570	2600
3	1670	1660	1660	1910	1870	1900	2420	2390	2400	2610	2470	2560
4	1670	1660	1660	1950	1900	1930	2420	2400	2410	2470	2370	2400
5	1680	1650	1660	1980	1950	1970	2440	2410	2420	2450	2380	2420
6	1690	1650	1670	2010	1970	1990	2440	2410	2430	2420	2360	2380
7	1690	1640	1680	2020	2000	2010	2450	2420	2430	2470	2390	2440
8	1710	1660	1700	2050	2020	2030	2460	2430	2440	2400	2370	2380
9	1700	1670	1690	2080	2050	2070	2470	2440	2450	2400	2360	2370
10	1710	1680	1700	2100	2070	2090	2480	2460	2470	2420	2370	2400
11	1720	1680	1700	2110	2090	2100	2510	2450	2480	2470	2400	2440
12	1750	1680	1730	2130	2100	2120	2490	2450	2470	2470	2450	2460
13	1750	1740	1750	2160	2130	2150	2520	2470	2500	2490	2460	2470
14	1750	1740	1750	2180	2160	2170	2510	2470	2490	2510	2480	2490
15	1750	1740	1750	2210	2170	2190	2530	2470	2500	2510	2490	2500
16	1760	1750	1750	2220	2200	2210	2530	2480	2500	2520	2480	2510
17	1750	1740	1750	2250	2220	2230	2520	2470	2490	2540	2500	2520
18	1760	1740	1750	2270	2240	2260	2520	2480	2490	2550	2490	2520
19	1790	1760	1780	2280	2260	2270	2500	2470	2490	2560	2510	2540
20	1780	1770	1780	2280	2250	2260	2540	2490	2520	2570	2540	2550
21	1780	1750	1760	2290	2270	2280	2530	2510	2520	2570	2520	2550
22	1760	1750	1760	2300	2280	2290	2530	2510	2520	2580	2540	2560
23	1770	1760	1760	2320	2290	2310	2550	2470	2520	2620	2560	2590
24	1760	1760	1760	2360	2310	2330	2540	2490	2530	2610	2580	2600
25	1770	1750	1760	2370	2330	2340	2540	2500	2520	2620	2560	2590
26	1760	1750	1760	2380	2320	2340	2550	2490	2530	2600	2570	2590
27	1760	1750	1760	2380	2340	2360	2550	2520	2540	2600	2560	2570
28	1760	1750	1760	2390	2350	2370	2570	2500	2540	2590	2570	2580
29	1760	1750	1760	2400	2370	2380	2550	2480	2540	2590	2560	2580
30	1770	1750	1760	2390	2360	2380	2560	2530	2550	2610	2560	2590
31	1850	1760	1780	---	---	---	2570	2540	2550	2610	2570	2590
MONTH	1850	1640	1730	2400	1850	2170	2570	2360	2480	2660	2360	2510

07130500 ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2600	2560	2580	2660	2620	2640	2410	2380	2390	2360	2350	2350
2	2600	2560	2580	2680	2620	2660	2420	2390	2400	2360	2340	2350
3	2610	2580	2600	2680	2620	2640	2400	2340	2370	2360	2340	2350
4	2620	2590	2610	2650	2600	2630	2350	2330	2340	2360	2340	2350
5	2600	2570	2590	2670	2620	2640	2350	2330	2340	2360	2340	2350
6	2610	2580	2590	2650	2630	2640	2360	2340	2350	2350	2330	2340
7	2610	2570	2590	2710	2630	2660	2360	2340	2350	2350	2320	2340
8	2620	2580	2600	2670	2600	2640	2350	2330	2350	2340	2320	2330
9	2630	2580	2600	2680	2630	2650	2340	2320	2330	2350	2320	2340
10	2620	2600	2610	2670	2620	2640	2340	2320	2330	2330	2310	2320
11	2640	2600	2620	2660	2600	2630	2380	2330	2350	2320	2300	2310
12	2650	2630	2640	2660	2600	2640	2390	2380	2380	2320	2290	2300
13	2710	2640	2680	2690	2420	2570	2390	2370	2380	2310	2290	2300
14	2700	2640	2680	2420	2320	2350	2380	2360	2370	2310	2300	2310
15	2670	2610	2640	2380	2330	2350	2380	2370	2370	2330	2290	2310
16	2670	2600	2640	2360	2330	2350	2380	2370	2370	2360	2310	2330
17	2680	2560	2630	2380	2330	2350	2380	2370	2380	2350	2330	2340
18	2640	2570	2610	2390	2350	2380	2380	2370	2370	2350	2340	2340
19	2680	2600	2630	2400	2360	2390	2380	2370	2370	2350	2330	2340
20	2660	2590	2640	2430	2310	2370	2370	2360	2370	2350	2340	2350
21	2640	2590	2610	2340	2310	2320	2380	2360	2370	2350	2330	2340
22	2620	2580	2600	2350	2320	2330	2380	2360	2370	2350	2340	2340
23	2590	2560	2580	2370	2330	2350	2380	2360	2370	2350	2340	2350
24	2620	2550	2590	2370	2350	2360	2380	2370	2370	2360	2340	2350
25	2620	2570	2600	2360	2340	2350	2380	2360	2370	2360	2340	2350
26	2650	2610	2630	2360	2340	2350	2370	2350	2360	2350	2340	2340
27	2640	2620	2630	2370	2340	2360	2370	2350	2360	2370	2320	2340
28	2650	2620	2640	2390	2370	2380	2360	2350	2360	---	---	---
29	---	---	---	2390	2380	2380	2370	2360	2360	---	---	---
30	---	---	---	2430	2380	2400	2370	2350	2360	---	---	---
31	---	---	---	2410	2380	2390	---	---	---	---	---	---
MONTH	2710	2550	2620	2710	2310	2480	2420	2320	2360	---	---	---
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1970	1900	1930	1230	1180	1200	1070	1060	1070
2	2340	2240	2290	1940	1880	1920	1220	1210	1220	1080	1060	1070
3	2270	2230	2260	1880	1850	1870	1220	1210	1220	1070	1060	1070
4	2280	2250	2260	1880	1830	1860	1220	1190	1210	1100	1060	1080
5	---	---	---	1850	1810	1830	1190	1150	1170	1100	1080	1090
6	---	---	---	1810	1270	1510	1180	1160	1170	1100	1070	1090
7	---	---	---	1330	1290	1310	1150	1130	1140	1100	1070	1090
8	2340	2320	2330	1310	1270	1290	1170	1140	1160	1090	1080	1080
9	2340	2300	2330	1310	1260	1290	1160	1140	1150	1080	1070	1070
10	2350	2300	2330	1770	1310	1580	1160	1140	1150	1080	1070	1080
11	2340	2270	2310	1760	1690	1730	1150	1130	1140	1090	1070	1080
12	2320	2190	2260	1700	1630	1660	1140	1130	1130	1080	1070	1080
13	2190	2160	2180	1660	1600	1620	1140	1120	1130	1080	1070	1080
14	2210	2190	2200	1610	1550	1590	1120	1100	1110	1100	1080	1090
15	2220	2200	2210	1690	1460	1520	1120	1110	1110	1140	1090	1100
16	2220	2200	2210	1490	1450	1470	1120	1100	1110	1170	1120	1140
17	2220	2190	2210	1480	1370	1430	1110	1100	1100	1200	1150	1170
18	2200	2150	2170	1420	1370	1390	1120	1090	1100	1200	1160	1180
19	2170	2150	2160	1390	1330	1360	1110	1080	1090	1170	1130	1150
20	2170	2130	2150	1330	1310	1320	1110	1090	1090	1150	1120	1130
21	2150	2140	2140	1310	1280	1300	1120	1080	1090	1130	1120	1120
22	2150	2120	2130	1290	1270	1280	1110	1080	1090	1130	1120	1120
23	2130	2060	2100	1280	1230	1260	1090	1080	1090	1120	1110	1120
24	2110	2070	2090	1270	1230	1250	1090	1080	1090	1120	1110	1120
25	2100	2070	2080	1240	1220	1230	1080	1070	1080	1120	1110	1120
26	2090	2070	2080	1230	1210	1220	1080	1060	1070	1120	1110	1120
27	2090	2060	2070	1230	1200	1220	1080	1060	1070	1150	1110	1130
28	2070	2040	2060	1240	1200	1210	1070	1060	1070	1170	1150	1160
29	2060	2000	2040	1230	1210	1220	1070	1060	1070	1170	1130	1160
30	2050	1970	2020	1240	1200	1220	1070	1060	1060	1150	1140	1140
31	---	---	---	1210	1180	1190	1070	1060	1060	---	---	---
MONTH	---	---	---	1970	1180	1450	1230	1060	1120	1200	1060	1110

07130500 ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR, CO--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	18.5	18.0	18.3	13.2	10.9	12.0	6.0	4.3	5.0	3.9	2.1	3.0
2	18.3	17.5	17.9	13.6	10.3	11.7	5.7	4.2	4.9	4.2	2.6	3.2
3	17.9	17.5	17.6	11.4	9.1	10.3	5.9	3.7	5.0	3.8	2.5	2.9
4	17.8	17.5	17.6	10.1	8.7	9.2	6.0	5.1	5.7	3.6	2.2	2.8
5	18.8	17.5	17.8	11.6	7.9	9.4	5.9	4.5	5.2	3.5	1.9	2.6
6	18.0	17.3	17.6	12.4	8.4	10.1	4.5	3.5	4.1	3.4	2.3	2.9
7	17.4	16.9	17.2	13.0	9.4	11.0	4.8	3.6	4.3	3.8	2.2	2.7
8	17.1	16.6	16.8	11.3	9.4	10.2	5.0	4.4	4.8	4.3	2.7	3.4
9	17.0	16.3	16.6	10.5	8.4	9.4	4.7	3.7	4.2	5.4	3.6	4.3
10	16.8	15.9	16.2	10.8	7.5	9.2	4.4	3.3	3.9	5.5	3.8	4.4
11	16.2	15.3	15.7	12.2	8.3	10.0	4.3	3.2	3.9	5.8	3.9	4.8
12	15.6	15.0	15.3	11.7	10.0	10.7	4.0	2.5	3.3	5.9	3.9	4.9
13	15.6	15.0	15.3	11.2	9.3	10.2	4.5	3.3	3.8	5.5	3.1	4.2
14	15.1	14.7	14.9	9.8	7.7	8.7	4.7	3.1	3.9	5.4	2.8	4.0
15	15.2	14.7	14.9	9.8	6.7	8.0	4.5	2.9	3.8	6.7	3.3	4.7
16	15.2	14.6	14.8	9.4	6.6	7.9	4.6	2.7	3.7	5.5	4.2	5.0
17	15.3	14.7	14.9	8.2	6.4	7.6	4.6	3.2	3.9	5.2	3.5	4.5
18	14.9	14.2	14.6	6.5	5.2	5.9	5.1	3.2	4.0	6.3	4.0	5.0
19	14.4	13.8	14.1	6.9	4.8	5.8	5.0	3.5	4.1	4.8	3.1	4.0
20	14.3	13.7	13.9	6.5	4.8	5.5	4.3	2.5	3.5	5.0	2.6	3.9
21	14.4	13.7	14.0	6.0	4.4	5.3	4.5	2.4	3.4	5.7	3.3	4.5
22	14.2	13.6	13.9	5.9	4.5	5.3	4.2	2.3	3.4	5.2	3.4	4.3
23	13.9	13.4	13.6	6.0	3.6	4.7	4.4	2.9	3.8	4.4	2.1	3.5
24	13.7	13.3	13.4	5.8	4.3	5.1	5.9	3.9	4.8	5.1	2.8	4.0
25	13.5	12.9	13.2	6.1	5.1	5.6	5.4	3.7	4.7	5.0	2.9	4.2
26	13.6	12.9	13.1	6.4	4.8	5.8	5.8	3.0	4.5	5.6	4.5	4.9
27	13.3	12.8	13.0	6.1	4.7	5.2	5.2	3.5	4.3	4.7	3.8	4.2
28	13.4	12.7	12.9	4.8	4.1	4.5	4.9	3.0	4.1	4.9	4.0	4.5
29	13.2	12.7	12.9	4.6	3.2	4.1	5.1	4.0	4.5	5.2	4.0	4.6
30	12.7	12.2	12.5	5.3	3.2	4.3	5.3	4.4	4.9	5.7	2.6	4.1
31	12.4	11.1	12.0	---	---	---	4.5	3.4	3.9	5.6	2.4	4.2
MONTH	18.8	11.1	15.0	13.6	3.2	7.8	6.0	2.3	4.2	6.7	1.9	4.0
	FEBRUARY			MARCH			APRIL			MAY		
1	7.3	3.9	5.4	4.8	3.0	3.7	9.1	7.3	8.1	10.5	9.6	10.0
2	8.2	4.8	6.1	5.0	2.1	3.4	9.1	7.5	8.2	10.7	9.7	10.1
3	6.8	5.1	6.0	7.5	3.1	5.1	8.6	7.7	8.1	11.0	10.2	10.5
4	7.4	4.2	5.7	7.9	4.7	6.3	9.1	8.0	8.5	11.1	10.4	10.7
5	8.2	4.7	6.3	10.2	5.8	7.6	9.7	8.7	9.1	10.8	10.5	10.6
6	8.3	4.1	6.4	7.8	4.4	6.0	9.2	8.4	8.8	11.4	10.6	11.0
7	8.3	5.9	7.0	6.7	3.7	5.3	10.1	8.4	9.2	11.9	11.0	11.4
8	6.9	4.8	5.9	8.0	3.9	6.0	10.4	8.9	9.6	12.1	11.1	11.5
9	9.1	4.5	6.3	9.7	4.6	7.1	11.0	9.8	10.6	12.6	11.4	12.0
10	7.3	4.3	5.9	13.9	6.1	9.2	10.3	9.5	10.0	13.1	12.0	12.5
11	5.9	3.4	4.5	13.6	7.1	10.2	9.7	9.1	9.4	12.9	11.9	12.3
12	3.4	.8	1.7	12.5	8.0	9.9	9.8	9.0	9.3	14.3	11.9	13.0
13	2.1	.9	1.5	10.1	6.1	8.4	9.6	9.0	9.2	14.5	13.4	13.9
14	5.3	1.8	3.4	9.4	5.3	7.3	11.0	9.2	9.9	14.3	13.4	13.7
15	6.4	3.8	4.9	13.3	6.1	9.4	10.4	9.9	10.1	14.3	13.4	13.8
16	5.3	3.9	4.8	12.3	8.0	10.2	10.5	9.8	10.1	14.6	13.2	14.1
17	6.7	4.8	5.3	15.2	9.1	11.7	10.1	9.7	9.9	14.1	13.5	13.8
18	6.4	4.7	5.7	16.6	9.4	12.4	10.1	9.4	9.7	14.5	13.4	13.8
19	9.3	4.7	6.8	13.8	9.9	11.7	9.6	9.3	9.5	14.7	13.6	14.0
20	10.1	4.8	7.3	11.6	7.2	9.2	9.8	9.1	9.4	14.0	13.6	13.8
21	11.3	6.5	8.7	8.0	6.9	7.3	9.1	8.8	8.9	14.7	13.6	14.1
22	10.5	6.2	8.2	8.9	7.0	7.9	8.8	8.5	8.7	14.6	13.8	14.2
23	10.9	6.0	8.6	9.0	7.8	8.3	9.8	8.3	8.9	14.1	13.7	13.9
24	12.6	6.7	9.0	9.3	8.0	8.6	9.8	8.6	9.0	14.2	13.7	13.9
25	13.5	7.0	9.6	9.3	8.1	8.6	10.1	8.6	9.2	13.9	13.7	13.8
26	12.5	7.2	9.5	8.5	7.8	8.0	9.6	8.8	9.2	15.0	13.8	14.2
27	10.2	8.4	9.3	9.1	7.7	8.3	10.2	9.1	9.5	17.7	13.9	15.4
28	8.4	4.8	6.5	8.5	8.0	8.2	10.2	9.3	9.7	17.6	13.0	15.0
29	---	---	---	8.0	7.6	7.9	10.1	9.4	9.7	14.9	13.9	14.4
30	---	---	---	8.0	7.4	7.7	10.1	9.5	9.8	19.9	13.6	16.1
31	---	---	---	8.7	7.2	7.8	---	---	---	21.7	14.5	17.1
MONTH	13.5	.8	6.3	16.6	2.1	8.0	11.0	7.3	9.3	21.7	9.6	13.2

07134100 BIG SANDY CREEK NEAR LAMAR, CO

LOCATION.--Lat 38°06'51", long 102°29'00", in SW¹/4SW¹/4 sec. 21, T.22 S., R.45 W., Prowers County, Hydrologic Unit 11020002, on right bank 35 ft upstream from State Highway 196, 950 ft upstream from mouth, and 7.5 mi east of Lamar.

DRAINAGE AREA.--3,248 mi².

PERIOD OF RECORD.-- February 1968 to September 1982, July 1995 to September 1995.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,545 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: July 28 to Aug.2, and Aug. 5-16. Records fair except those for estimated daily discharges, which are poor. Natural flow of stream affected by diversions above station for irrigation and return flow from irrigated areas. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period July to September, 36 ft³/s, Sept. 10, gage height, 1.97 ft; maximum gage height, 4.23 ft, July 28 (backwater from Arkansas River), minimum daily discharge, 2.7 ft³/s, September 24, 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	21	8.1
2	---	---	---	---	---	---	---	---	---	---	17	16
3	---	---	---	---	---	---	---	---	---	---	13	17
4	---	---	---	---	---	---	---	---	---	---	16	21
5	---	---	---	---	---	---	---	---	---	---	15	18
6	---	---	---	---	---	---	---	---	---	---	10	14
7	---	---	---	---	---	---	---	---	---	---	9.0	14
8	---	---	---	---	---	---	---	---	---	---	8.0	20
9	---	---	---	---	---	---	---	---	---	---	7.0	20
10	---	---	---	---	---	---	---	---	---	---	6.5	23
11	---	---	---	---	---	---	---	---	---	---	6.5	24
12	---	---	---	---	---	---	---	---	---	---	6.5	23
13	---	---	---	---	---	---	---	---	---	---	6.5	13
14	---	---	---	---	---	---	---	---	---	---	6.5	5.4
15	---	---	---	---	---	---	---	---	---	---	10	13
16	---	---	---	---	---	---	---	---	---	---	14	18
17	---	---	---	---	---	---	---	---	---	---	14	14
18	---	---	---	---	---	---	---	---	---	---	10	15
19	---	---	---	---	---	---	---	---	---	---	7.1	16
20	---	---	---	---	---	---	---	---	---	---	6.9	13
21	---	---	---	---	---	---	---	---	---	---	7.4	15
22	---	---	---	---	---	---	---	---	---	---	9.1	13
23	---	---	---	---	---	---	---	---	---	---	11	4.0
24	---	---	---	---	---	---	---	---	---	---	8.6	2.7
25	---	---	---	---	---	---	---	---	---	---	9.1	4.1
26	---	---	---	---	---	---	---	---	---	---	7.1	4.4
27	---	---	---	---	---	---	---	---	---	---	8.0	3.1
28	---	---	---	---	---	---	---	---	---	18	6.9	2.7
29	---	---	---	---	---	---	---	---	---	23	7.0	4.8
30	---	---	---	---	---	---	---	---	---	20	8.4	3.3
31	---	---	---	---	---	---	---	---	---	22	6.4	---
TOTAL	---	---	---	---	---	---	---	---	---	---	299.5	382.6
MEAN	---	---	---	---	---	---	---	---	---	---	9.66	12.8
MAX	---	---	---	---	---	---	---	---	---	---	21	24
MIN	---	---	---	---	---	---	---	---	---	---	6.4	2.7
AC-FT	---	---	---	---	---	---	---	---	---	---	594	759

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1995, BY WATER YEAR (WY)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
MEAN	4.64	13.1	14.5	13.4	16.4	16.0	16.3	14.2	7.56	5.51	4.99	8.30
MAX	10.7	43.8	45.1	39.5	48.0	48.8	65.3	41.1	17.3	16.7	14.6	41.8
(WY)	1971	1971	1970	1970	1971	1974	1970	1973	1978	1970	1968	1976
MIN	.087	.41	.34	.50	2.23	2.10	.81	2.14	1.77	.21	.027	.084
(WY)	1979	1978	1978	1978	1978	1977	1978	1975	1976	1978	1976	1978

SUMMARY STATISTICS

WATER YEARS 1968 - 1995

ANNUAL MEAN	11.3
HIGHEST ANNUAL MEAN	27.2
LOWEST ANNUAL MEAN	2.23
HIGHEST DAILY MEAN	619
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
INSTANTANEOUS PEAK FLOW	not determined
INSTANTANEOUS PEAK STAGE	9.93
ANNUAL RUNOFF (AC-FT)	8180
10 PERCENT EXCEEDS	29
50 PERCENT EXCEEDS	5.9
90 PERCENT EXCEEDS	.60

07134180 ARKANSAS RIVER NEAR GRANADA, CO

LOCATION.--Lat 38°05'44", long 102°18'37", in SE¹/4NE¹/4 sec.36, T.22 S., R.44 W., Prowers County, Hydrologic Unit 11020009, on left bank at upstream side at end of bridge on U.S. Highway 385, 1.2 mi downstream from headgate of Buffalo Canal, and 2.3 mi north of Granada.

DRAINAGE AREA.--23,707 mi².

PERIOD OF RECORD.--January 1899 to December 1901, gage heights only at different site and datum, August to October 1903 at different datum, December 1980 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,480 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by John Martin Reservoir (station 07130000) 38 mi upstream since October 1948. Natural flow of stream affected by transmountain diversion, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 500,000 acres, and return flow from irrigated areas. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	28	82	113	103	89	6.6	5.5	239	877	1680	397
2	4.3	44	95	107	103	88	6.8	5.5	141	1500	1500	481
3	47	39	90	107	101	89	6.8	5.6	171	2040	881	566
4	42	37	89	105	101	101	6.5	5.4	916	2230	480	598
5	45	35	90	111	102	98	6.9	5.3	1750	2280	352	621
6	92	34	94	115	103	93	6.9	7.1	852	2320	265	610
7	54	34	97	112	104	86	7.0	20	470	2310	203	544
8	46	34	102	113	104	83	7.4	38	303	2240	152	532
9	41	34	102	112	106	88	7.1	42	207	2350	122	528
10	39	34	100	113	105	85	7.1	31	171	2380	108	567
11	38	36	100	116	107	82	16	24	155	2360	93	589
12	37	40	100	119	105	80	6.1	21	131	2280	81	463
13	37	34	107	118	99	77	5.6	10	103	2220	69	242
14	37	32	109	118	102	45	5.5	5.4	79	2210	59	192
15	35	41	110	119	109	20	5.5	5.4	55	2200	56	163
16	36	50	108	123	103	15	5.8	5.3	39	1960	54	141
17	36	51	107	121	103	8.4	5.9	5.6	35	2110	51	119
18	36	48	106	121	103	7.6	8.4	27	38	2200	45	106
19	37	49	106	115	99	6.9	6.6	22	34	2230	26	98
20	38	60	105	109	99	6.2	6.5	13	19	2230	24	76
21	40	59	106	104	96	5.9	29	19	8.4	2220	24	71
22	39	57	105	98	93	6.9	76	39	8.4	2230	22	81
23	40	62	104	95	91	18	55	43	9.4	2280	24	65
24	39	83	106	92	90	6.3	38	45	20	2370	26	56
25	22	90	107	94	89	5.8	26	48	79	2350	29	55
26	13	88	108	101	90	5.7	22	57	79	2310	78	60
27	12	93	106	109	88	5.6	20	599	51	2300	249	59
28	13	86	106	113	87	6.4	19	542	40	2260	321	55
29	14	83	107	108	---	6.9	15	245	77	2150	358	53
30	14	77	117	105	---	7.1	5.6	189	370	1780	377	52
31	13	---	119	104	---	6.8	---	245	---	1690	386	---
TOTAL	1040.7	1572	3190	3410	2785	1329.5	446.6	2375.1	6650.2	66467	8195	8240
MEAN	33.6	52.4	103	110	99.5	42.9	14.9	76.6	222	2144	264	275
MAX	92	93	119	123	109	101	76	599	1750	2380	1680	621
MIN	4.3	28	82	92	87	5.6	5.5	5.3	8.4	877	22	52
AC-FT	2060	3120	6330	6760	5520	2640	886	4710	13190	131800	16250	16340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1995, BY WATER YEAR (WY)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	69.9	81.9	103	95.5	96.6	92.6	176	227	342	448	224	116			
MAX	184	149	157	134	143	249	1138	2072	2196	2144	607	430			
(WY)	1984	1987	1988	1988	1988	1987	1987	1987	1987	1995	1983	1984			
MIN	4.15	9.68	35.4	39.8	55.9	22.7	5.68	4.51	9.39	1.30	4.39	4.13			
(WY)	1993	1982	1982	1994	1982	1994	1992	1992	1981	1990	1990	1990			

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1981 - 1995

ANNUAL TOTAL	29973.1	105701.1		
ANNUAL MEAN	82.1	290	180	
HIGHEST ANNUAL MEAN			597	1987
LOWEST ANNUAL MEAN			59.3	1992
HIGHEST DAILY MEAN	723	Jul 18	2380	Jul 10
LOWEST DAILY MEAN	4.3	Sep 30	4.3	Oct 2
ANNUAL SEVEN-DAY MINIMUM	4.5	Sep 26	5.7	Apr 30
INSTANTANEOUS PEAK FLOW			2420	Jul 10
INSTANTANEOUS PEAK STAGE			11.25	Jul 10
ANNUAL RUNOFF (AC-FT)	59450	209700	130100	
10 PERCENT EXCEEDS	308	862	445	
50 PERCENT EXCEEDS	38	88	86	
90 PERCENT EXCEEDS	6.4	6.9	6.2	

a-Also occurred Aug 18-19, 1990.
b-From rating curve extended above 2700 ft³/s.

07134990 WILD HORSE CREEK ABOVE HOLLY, CO

LOCATION.--Lat 38°03'29", long 102°08'10", in SW¹/4SW¹/4 sec. 10, T.23 S., R.42 W., Prowers County, Hydrologic Unit 11020002, on left bank, 50 ft upstream from County Road No. 34, 0.60 mi northeast of Holly, and 0.80 mi upstream from mouth.

DRAINAGE AREA.--270 mi², approximately.

PERIOD OF RECORD.--June to September 1995 (seasonal only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,405 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream affected by diversions above station for irrigation and return flow from irrigated areas. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	13	11	4.4
2	---	---	---	---	---	---	---	---	---	22	10	5.9
3	---	---	---	---	---	---	---	---	---	10	9.4	13
4	---	---	---	---	---	---	---	---	---	12	10	11
5	---	---	---	---	---	---	---	---	---	11	7.9	5.3
6	---	---	---	---	---	---	---	---	---	6.0	6.4	5.0
7	---	---	---	---	---	---	---	---	---	5.5	6.5	4.1
8	---	---	---	---	---	---	---	---	---	6.1	7.0	4.6
9	---	---	---	---	---	---	---	---	---	7.1	5.6	4.8
10	---	---	---	---	---	---	---	---	---	7.6	4.5	4.3
11	---	---	---	---	---	---	---	---	---	7.5	5.9	5.5
12	---	---	---	---	---	---	---	---	---	6.8	6.9	6.7
13	---	---	---	---	---	---	---	---	---	6.9	5.7	6.9
14	---	---	---	---	---	---	---	---	---	7.1	4.5	6.1
15	---	---	---	---	---	---	---	---	---	6.5	4.3	5.5
16	---	---	---	---	---	---	---	---	---	8.6	5.2	4.8
17	---	---	---	---	---	---	---	---	---	14	5.6	3.5
18	---	---	---	---	---	---	---	---	---	9.7	4.8	3.3
19	---	---	---	---	---	---	---	---	---	11	11	3.1
20	---	---	---	---	---	---	---	---	---	21	14	4.0
21	---	---	---	---	---	---	---	---	---	25	21	7.2
22	---	---	---	---	---	---	---	---	---	24	20	7.6
23	---	---	---	---	---	---	---	---	---	24	14	10
24	---	---	---	---	---	---	---	---	---	25	10	9.0
25	---	---	---	---	---	---	---	---	---	17	16	19
26	---	---	---	---	---	---	---	---	---	19	14	28
27	---	---	---	---	---	---	---	---	---	19	24	29
28	---	---	---	---	---	---	---	---	---	13	15	31
29	---	---	---	---	---	---	---	---	---	19	5.3	33
30	---	---	---	---	---	---	---	---	---	9.3	16	34
31	---	---	---	---	---	---	---	---	---	12	4.5	---
TOTAL	---	---	---	---	---	---	---	---	---	412.4	295.4	319.6
MEAN	---	---	---	---	---	---	---	---	---	13.3	9.53	10.7
MAX	---	---	---	---	---	---	---	---	---	25	24	34
MIN	---	---	---	---	---	---	---	---	---	5.5	4.3	3.1
AC-FT	---	---	---	---	---	---	---	---	---	818	586	634

07135000 TWO BUTTE CREEK NEAR HOLLY, CO

LOCATION.--Lat 38°01'40", long 102°08'19", in SE¹/4SE¹/4 sec. 21, T.23 S., R.42 W., Prowers County, Hydrologic Unit 11020002, on right bank 15 ft upstream from county road DD, about 1 mi upstream from mouth and 2.9 mi southwest of Holly.

DRAINAGE AREA.--817 mi².

PERIOD OF RECORD.--April 1942 to September 1946. June to September 1995 (seasonal only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,415 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges: No flow from June to September. Records good. Natural flow of stream affected by Two Butte Reservoir, (capacity, 40,000 acre-feet), from which most of creek is diverted for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	.00	.00	.00
2	---	---	---	---	---	---	---	---	---	.00	.00	.00
3	---	---	---	---	---	---	---	---	---	.00	.00	.00
4	---	---	---	---	---	---	---	---	---	.00	.00	.00
5	---	---	---	---	---	---	---	---	---	.00	.00	.00
6	---	---	---	---	---	---	---	---	---	.00	.00	.00
7	---	---	---	---	---	---	---	---	---	.00	.00	.00
8	---	---	---	---	---	---	---	---	.00	.00	.00	.00
9	---	---	---	---	---	---	---	---	.00	.00	.00	.00
10	---	---	---	---	---	---	---	---	.00	.00	.00	.00
11	---	---	---	---	---	---	---	---	.00	.00	.00	.00
12	---	---	---	---	---	---	---	---	.00	.00	.00	.00
13	---	---	---	---	---	---	---	---	.00	.00	.00	.00
14	---	---	---	---	---	---	---	---	.00	.00	.00	.00
15	---	---	---	---	---	---	---	---	.00	.00	.00	.00
16	---	---	---	---	---	---	---	---	.00	.00	.00	.00
17	---	---	---	---	---	---	---	---	.00	.00	.00	.00
18	---	---	---	---	---	---	---	---	.00	.00	.00	.00
19	---	---	---	---	---	---	---	---	.00	.00	.00	.00
20	---	---	---	---	---	---	---	---	.00	.00	.00	.00
21	---	---	---	---	---	---	---	---	.00	.00	.00	.00
22	---	---	---	---	---	---	---	---	.00	.00	.00	.00
23	---	---	---	---	---	---	---	---	.00	.00	.00	.00
24	---	---	---	---	---	---	---	---	.00	.00	.00	.00
25	---	---	---	---	---	---	---	---	.00	.00	.00	.00
26	---	---	---	---	---	---	---	---	.00	.00	.00	.00
27	---	---	---	---	---	---	---	---	.00	.00	.00	.00
28	---	---	---	---	---	---	---	---	.00	.00	.00	.00
29	---	---	---	---	---	---	---	---	.00	.00	.00	.00
30	---	---	---	---	---	---	---	---	.00	.00	.00	.00
31	---	---	---	---	---	---	---	---	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	---	---	0.00	0.00	0.00
MEAN	---	---	---	---	---	---	---	---	---	.000	.000	.000
MAX	---	---	---	---	---	---	---	---	---	.00	.00	.00
MIN	---	---	---	---	---	---	---	---	---	.00	.00	.00
AC-FT	---	---	---	---	---	---	---	---	---	.00	.00	.00

ARKANSAS RIVER BASIN

07137000 FRONTIER DITCH NEAR COOLIDGE, KS

LOCATION.--Lat 38°02'18", long 102°02'19", in SW1/4 SE1/4 NE1/4 sec.21, T.23 S., R.43 W., Hamilton County, Hydrologic Unit 11030001, on left bank 0.3 mi east of Colorado-Kansas State line, 0.5 mi downstream from Holly drain diversion, 1.5 mi west of Coolidge, and 2.3 mi down-stream from diversion of the Arkansas River.

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 1731: 1951.

GAGE.--Water-stage recorders and Parshall flume. Datum of gage is 3,343.14 ft above sea level.

REMARKS.--Records good. This ditch diverts water from the Arkansas River in Colorado for use in Kansas. These records and records for the Arkansas River near Coolidge represent total flow of the Arkansas River at the Colorado-Kansas State line. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 84 ft³/sec Aug. 1, 1975; no flow many days each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	34	29	.00	.00	.00	.00	.00	.00	9.0	42	42
2	25	30	29	.00	.00	.00	.00	.00	.00	6.3	41	44
3	27	30	29	.00	.00	.00	.00	.00	.00	.30	41	44
4	33	31	28	.00	.00	.00	.00	.00	.00	.15	42	42
5	30	30	28	.00	.00	.00	.00	.00	.00	.01	40	41
6	30	30	28	.00	.00	.00	.00	.00	.00	.00	42	44
7	30	31	29	.00	.00	.00	.00	.00	.00	.00	40	41
8	29	30	28	.00	.00	.00	.00	.00	.00	.00	43	40
9	29	30	28	.00	.00	.00	.00	.00	.00	.00	45	43
10	29	30	28	.00	.00	.00	.00	.00	.00	.00	48	42
11	29	30	28	.00	.00	.00	.00	.00	.00	.00	51	44
12	29	30	21	.00	.00	.00	.00	.00	.00	.00	15	32
13	28	30	1.1	.00	.00	.00	.00	.00	6.1	1.5	7.0	31
14	29	29	.73	.00	.00	.00	.00	.00	27	6.6	43	37
15	30	29	.47	.00	.00	.00	.00	.00	27	28	38	30
16	30	30	.24	.00	.00	.00	.00	.00	28	28	33	31
17	23	30	.05	.00	.00	.00	.00	.00	29	28	28	30
18	.99	30	.00	.00	.00	.00	.00	.00	30	29	26	28
19	.33	30	.00	.00	.00	.00	.00	.00	30	32	36	26
20	.00	17	.00	.00	.00	.00	.00	.00	31	32	36	32
21	.00	.75	.00	.00	.00	.00	.00	11	31	30	43	33
22	.00	.22	.00	.00	.00	.00	.00	21	31	39	46	35
23	.00	.00	.00	.00	.00	.00	.00	21	31	40	44	38
24	.00	.00	.00	.00	.00	.00	.00	21	13	40	46	35
25	.00	.00	.00	.00	.00	.00	.00	21	.13	40	45	37
26	.00	13	.00	.00	.00	.00	.00	18	.00	39	45	30
27	.00	29	.00	.00	.00	.00	.00	.18	.00	41	46	26
28	.00	29	.00	.00	.00	.00	.00	.00	.00	40	46	23
29	.00	29	.00	.00	---	.00	.00	.00	.00	41	46	.99
30	.00	29	.00	.00	---	.00	.00	.00	.00	42	46	.54
31	6.4	---	.00	.00	---	.00	---	.00	---	42	46	---
TOTAL	494.72	720.97	335.59	0.00	0.00	0.00	0.00	113.18	314.23	634.86	1236.0	1002.53
MEAN	16.0	24.0	10.8	.000	.000	.000	.000	3.65	10.5	20.5	39.9	33.4
MAX	33	34	29	.00	.00	.00	.00	21	31	42	51	44
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.0	.54
AC-FT	981	1430	666	.00	.00	.00	.00	224	623	1260	2450	1990

CAL YR 1994 TOTAL 5198.19 MEAN 14.2 MAX 38 MIN .00 AC-FT 10310
WTR YR 1995 TOTAL 4852.08 MEAN 13.3 MAX 51 MIN .00 AC-FT 9620

07137500 ARKANSAS RIVER NEAR COOLIDGE, KS
(National stream-quality accounting network station)

LOCATION.--Lat 38°01'34", long 102°00'41", in NW¹/₄ NE¹/₄ NW¹/₄ sec.26, T.23 S., R.43 W., Hamilton County, Hydrologic Unit 11030001, on right bank at downstream side of county highway bridge, 1.0 mi south of Coolidge, 1.9 mi downstream from Colorado-Kansas State line, and at mile 1,099.3.

DRAINAGE AREA.--25,410 mi², of which 1,708 mi² is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to October 1903, March to May 1921, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1341: 1903, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,330.84 ft above sea level. May 5 to Oct. 31, 1903, nonrecording gage, and Mar. 1 to May 31, 1921, water-stage recorder at present site at different datum. Oct. 1, 1950, to Mar. 31, 1966, water-stage recorder at site 0.3 mi upstream at datum 3.00 ft, higher.

REMARKS.--Records good. Combined flow of river and Frontier Ditch (station 07137000) represents entire flow that enters Kansas. Flow regulated since 1943 by John Martin Reservoir (station 07130000). Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 500,000 acres, and return flow from irrigated areas. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	149	133	186	171	149	99	123	297	623	1940	392
2	69	158	140	184	167	151	94	126	247	1200	1910	406
3	76	128	143	179	163	152	93	128	196	1470	1520	484
4	94	127	141	177	160	161	84	127	357	1820	876	536
5	87	124	139	181	160	165	86	128	1370	2020	660	548
6	88	119	142	186	161	161	125	147	1250	2160	534	564
7	90	119	145	184	162	153	98	182	592	2220	468	544
8	97	113	147	184	161	148	95	200	413	2190	399	527
9	94	109	146	183	161	149	97	217	320	2180	331	539
10	88	109	147	185	162	151	105	200	314	2300	289	586
11	95	121	147	186	163	147	136	184	291	2320	251	636
12	94	123	154	184	159	146	147	166	271	2250	265	643
13	95	123	178	181	162	141	109	151	235	2090	251	460
14	100	117	181	177	161	137	102	139	185	2060	203	364
15	106	106	182	175	162	138	103	134	195	2140	206	329
16	106	105	182	176	165	142	106	125	194	2200	197	310
17	112	110	180	174	165	130	101	154	187	1980	188	298
18	119	113	180	171	167	118	123	249	173	2250	174	286
19	120	113	181	169	166	111	123	276	163	2390	177	249
20	118	133	179	169	162	105	140	240	133	2450	177	231
21	122	145	179	167	159	103	153	244	120	2570	166	234
22	129	147	179	168	156	100	169	245	108	2570	161	236
23	122	144	179	166	153	128	203	227	119	2660	149	238
24	130	149	181	165	151	144	171	219	280	2870	136	231
25	136	155	183	164	151	138	142	227	253	2950	123	246
26	154	148	183	168	152	131	129	252	253	2920	129	252
27	159	137	182	178	147	133	125	401	176	2910	202	238
28	160	137	180	179	148	113	119	678	118	2850	308	235
29	161	138	181	179	---	108	115	388	122	2800	339	247
30	189	136	182	175	---	105	118	268	204	2450	362	242
31	177	---	190	173	---	104	---	273	---	2050	372	---
MEAN	115	128	167	177	160	134	120	220	305	2255	434	378
MAX	189	158	190	186	171	165	203	678	1370	2950	1940	643
MIN	68	105	133	164	147	100	84	123	108	623	123	231
AC-FT	7050	7650	10250	10860	8880	8260	7160	13520	18120	138700	26700	22480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	117	103	110	109	122	111	194	276	459	325	296	174																																	
MAX	331	256	270	274	602	331	1221	2106	8221	2255	1979	1079																																	
(WY)	1985	1988	1966	1966	1966	1960	1987	1987	1965	1995	1965	1965																																	
MIN	1.97	1.53	3.94	3.14	5.52	5.63	9.43	6.61	4.20	3.59	1.94	.90																																	
(WY)	1979	1979	1979	1979	1978	1978	1979	1963	1954	1974	1964	1960																																	
SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR																				FOR 1995 WATER YEAR			WATER YEARS 1951 - 1995																					
ANNUAL MEAN	165										386			200																															
HIGHEST ANNUAL MEAN														1012																															
LOWEST ANNUAL MEAN														19.8																															
HIGHEST DAILY MEAN	819										Aug 15			2950																															
LOWEST DAILY MEAN	47										Jun 8			68																															
ANNUAL SEVEN-DAY MINIMUM	55										Jun 3			82																															
INSTANTANEOUS PEAK FLOW														2990																															
INSTANTANEOUS PEAK STAGE														7.95																															
INSTANTANEOUS LOW FLOW														64																															
ANNUAL RUNOFF (AC-FT)	119300										279600			144800																															
10 PERCENT EXCEEDS	370										757			419																															
50 PERCENT EXCEEDS	132										167			114																															
90 PERCENT EXCEEDS	76										107			8.7																															

ARKANSAS RIVER BASIN

07137500 ARKANSAS RIVER NEAR COOLIDGE, KS--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-68, 1970-73, 1975 to 1995 (Discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1963 to September 1968, January 1976 to September 1981.

WATER TEMPERATURES: November 1963 to September 1968, January 1976 to September 1981.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	
APR	05...	1120	86	4590	8.0	11.5	--	--	100	2900
JUN	22...	1215	108	4600	7.9	18.0	8.1	677	480	470
JUL	25...	1115	2930	1690	--	28.0	6.5	675	160	1500
AUG	22...	1130	166	3790	8.1	22.0	7.5	681	K7500	2500

DATE	TUR- BID- ITY (NTU)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	
APR	05...	35	1900	390	220	600	6	13	318	388	0	2500	180
JUN	22...	26	1700	340	200	630	7	13	312	381	0	2400	170
JUL	25...	78	620	150	60	150	3	6.4	149	182	0	680	42
AUG	22...	46	1400	280	170	440	5	13	278	339	0	1800	120

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	
APR	05...	0.90	19	4590	6.24	1060	3.30	3.30	0.09	14	0.13	0.070	0.50
JUN	22...	0.90	17	4380	5.96	1280	2.40	2.40	0.06	10	0.13	0.050	0.90
JUL	25...	0.90	11	1320	1.80	10400	0.590	0.590	0.04	2.5	0.07	0.030	0.70
AUG	22...	1.0	16	3400	4.62	1520	1.60	1.60	0.05	7.0	0.07	0.040	0.60

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

ARKANSAS RIVER BASIN

403

07137500 ARKANSAS RIVER NEAR COOLIDGE, KS--Continued
(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
APR 05...	3.8	3.26	3.26	0.040	0.43	0.40	0.130	0.130	0.130	180	42	96
JUN 22...	3.3	2.36	2.36	0.040	0.85	0.03	0.130	0.060	0.010	397	116	86
JUL 25...	1.3	0.570	0.570	0.020	0.67	0.06	0.160	0.040	0.020	850	6720	36
AUG 22...	2.2	1.58	1.58	0.020	0.56	0.06	0.060	0.020	0.020	274	123	88

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
APR 05...	<10	<100	<1	20	160	50	4	<1	24	<1.0	5500	6
JUN 22...	20	100	<1	10	180	20	<1	3	13	<1.0	6200	8
JUL 25...	10	44	<3	<3	61	13	<10	2	7	<1.0	2200	<6
AUG 22...	<10	<100	<1	20	160	30	3	3	20	<1.0	5100	6

RIO GRANDE BASIN

08213500 RIO GRANDE AT THIRTYMILE BRIDGE, NEAR CREEDE, CO

LOCATION.--Lat 37°43'29", long 107°15'18", in NE¹/₄ sec.13, T.40 N., R.4 W., Hinsdale County, Hydrologic Unit 13010001, on right bank 70 ft downstream from bridge, 500 ft upstream from Squaw Creek, 0.8 mi downstream from Rio Grande Reservoir, and 20 mi southwest of Creede.

DRAINAGE AREA.--163 mi².

PERIOD OF RECORD.--June 1909 to September 1923, May 1925 to current year. No winter records 1910, 1926. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,300 ft above sea level, from topographic map. See WSP 1712 or 1732 for history of changes prior to Oct. 1, 1934.

REMARKS.--Estimated daily discharges: Nov. 1 to Mar. 15, Mar. 25 to Apr. 8, June 6-7, and June 12-15. Records good except for estimated daily discharges, which are fair. Flow regulated by Rio Grande Reservoir, capacity, 51,110 acre-ft, since 1912. Natural flow of stream affected by transmountain diversions from Colorado River basin to drainage area upstream from station through Weminuche Pass and Pine River-Weminuche Pass ditches. No known diversions upstream from station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	32	2.0	3.0	4.0	5.0	5.2	324	469	1630	855	134
2	85	1.9	2.5	3.0	4.0	5.0	5.2	338	722	1450	788	113
3	107	1.9	2.5	3.0	4.0	5.0	5.2	381	836	1320	722	108
4	118	1.9	2.5	3.0	4.0	5.0	5.2	383	533	1140	763	109
5	136	1.9	2.5	3.5	4.0	5.0	29	349	435	1010	795	109
6	152	1.9	2.5	3.5	4.0	5.0	64	335	149	1020	682	111
7	157	1.9	2.5	3.5	4.0	5.0	74	338	373	1130	730	111
8	134	1.9	2.5	3.5	4.0	5.0	74	356	770	1190	760	111
9	120	1.9	2.5	3.5	4.5	5.0	81	382	543	1220	689	123
10	120	1.9	2.5	3.5	4.5	5.0	91	394	516	1330	396	151
11	112	1.9	2.5	3.5	4.5	5.0	96	391	707	1330	231	162
12	98	1.9	2.5	3.5	4.5	5.0	98	388	233	1290	210	142
13	92	1.9	2.5	3.5	4.5	5.0	92	386	5.2	1220	206	110
14	87	1.9	2.5	3.5	4.5	24	84	380	5.8	1100	209	89
15	82	2.0	2.5	3.5	4.5	38	84	410	6.8	1020	212	84
16	82	2.0	2.5	3.5	4.5	40	90	538	9.7	1040	207	84
17	86	2.0	2.5	3.5	4.5	53	97	612	14	1050	182	84
18	97	2.0	2.5	3.5	4.5	61	96	600	17	1050	163	84
19	97	2.0	3.0	3.5	4.5	68	90	532	18	954	162	79
20	97	2.0	3.0	3.5	4.5	71	83	541	20	815	174	76
21	97	2.0	3.0	3.5	4.5	72	73	780	329	832	187	73
22	97	2.0	3.0	4.0	4.5	72	71	1160	700	810	210	64
23	97	2.0	3.0	4.0	4.5	72	67	900	1600	727	252	56
24	97	2.0	3.0	4.0	4.5	69	60	378	1680	649	272	56
25	97	2.0	3.0	4.0	4.5	66	58	367	1780	761	226	56
26	92	2.0	3.0	4.0	5.0	66	58	397	1830	937	187	55
27	75	2.0	3.0	4.0	5.0	28	58	315	1870	895	185	56
28	71	2.0	3.0	4.0	5.0	5.2	64	337	1640	770	188	65
29	72	2.0	3.0	4.0	---	5.2	66	420	1590	788	198	109
30	77	2.0	3.0	4.0	---	5.2	211	448	1600	756	200	157
31	80	---	3.0	4.0	---	5.2	---	447	---	810	176	---
TOTAL	3076	88.7	83.5	111.5	123.5	885.8	2129.8	14307	21001.5	32044	11417	2921
MEAN	99.2	2.96	2.69	3.60	4.41	28.6	71.0	462	700	1034	368	97.4
MAX	157	32	3.0	4.0	5.0	72	211	1160	1870	1630	855	162
MIN	65	1.9	2.0	3.0	4.0	5.0	5.2	315	5.2	649	162	55
AC-FT	6100	176	166	221	245	1760	4220	28380	41660	63560	22650	5790

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1995, BY WATER YEAR (WY)

MEAN	97.5	29.6	9.29	9.22	9.11	12.0	102	489	907	538	248	105
MAX	648	280	116	89.0	81.0	88.6	368	907	1842	1246	612	467
(WY)	1912	1917	1912	1912	1912	1916	1950	1958	1917	1986	1957	1909
MIN	2.00	.39	.40	.40	.40	.40	5.63	75.0	139	54.2	40.4	25.8
(WY)	1937	1993	1952	1952	1952	1952	1983	1938	1934	1934	1940	1956

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1909 - 1995

ANNUAL TOTAL	67205.2	88189.3		
ANNUAL MEAN	184	242		
HIGHEST ANNUAL MEAN				1986
LOWEST ANNUAL MEAN				1977
HIGHEST DAILY MEAN	1290	Jun 8	1870	Jun 27
LOWEST DAILY MEAN	^a 1.9	Nov 2	^a 1.9	Nov 2
ANNUAL SEVEN-DAY MINIMUM	1.9	Nov 2	1.9	Nov 2
INSTANTANEOUS PEAK FLOW			2020	Jun 27
INSTANTANEOUS PEAK STAGE			4.33	Jun 27
ANNUAL RUNOFF (AC-FT)	133300	174900	153600	
10 PERCENT EXCEEDS	786	810	742	
50 PERCENT EXCEEDS	56	72	51	
90 PERCENT EXCEEDS	2.5	2.5	2.5	

a-Also occurred Nov.3-14.

b-Also occurred Nov 3, 4, 1960.

c-Present site and datum, from rating curve extended above 1200 ft³/s.

08217500 RIO GRANDE AT WAGON WHEEL GAP, CO

LOCATION.--Lat 37°46'01", long 106°49'51", in NW¹/₄NE¹/₄ sec.35, T.41 N., R.1 E., Mineral County, Hydrologic Unit 13010001, on right bank 250 ft upstream from private bridge, 0.4 mi upstream from Goose Creek, and 0.4 mi west of town of Wagon Wheel Gap.

DRAINAGE AREA.--780 mi².

PERIOD OF RECORD.--May 1951 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,430 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 8 to Feb. 27, and Aug. 2-9. Records good except for estimated daily discharges and discharges below 200 ft³/s, which are poor. Flow regulated by Santa Maria, Rio Grande, and Continental Reservoirs, combined capacity, 121,400 acre-ft. Diversions upstream from station for irrigation. Transmountain diversions to drainage area upstream from station from Colorado River basin (see elsewhere in this report). Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	378	289	127	110	86	138	164	659	1520	3620	1450	624
2	348	201	131	110	86	140	167	725	2060	3310	1400	570
3	342	178	132	110	88	141	152	718	2530	3040	1330	550
4	374	152	135	110	90	141	167	721	2580	2730	1280	546
5	493	128	138	110	92	141	196	750	2450	2370	1340	562
6	541	164	141	110	92	141	265	720	2730	2360	1300	554
7	502	163	141	120	90	141	314	707	2050	2540	1250	571
8	474	169	140	120	90	141	359	714	2600	2620	1330	585
9	421	133	130	120	90	141	403	710	2750	2580	1330	585
10	405	121	130	120	90	141	356	730	2090	2700	1200	597
11	391	121	130	120	92	141	334	748	2350	2650	928	623
12	367	185	130	120	92	141	333	765	2560	2560	905	599
13	338	118	130	110	92	141	349	765	2240	2400	963	525
14	333	112	130	110	94	143	387	768	2320	2230	943	472
15	351	94	120	110	94	154	385	882	2500	2020	882	447
16	343	94	120	110	94	209	353	1140	2520	1980	819	433
17	347	107	120	100	96	224	374	1290	3130	1980	781	433
18	339	110	110	100	100	234	343	1240	3220	1920	718	441
19	353	103	100	100	110	282	352	1250	2770	1870	715	451
20	348	103	98	100	120	292	314	1320	2660	1670	750	434
21	343	114	98	100	130	335	304	1680	2790	1580	725	417
22	345	109	100	98	130	391	299	2230	2990	1570	774	415
23	347	93	110	98	130	343	290	2700	3570	1490	990	399
24	353	97	110	96	130	322	271	2200	3630	1430	961	382
25	344	103	110	96	140	283	274	1660	3580	1350	955	382
26	338	109	110	94	140	249	280	1650	3490	1500	949	382
27	318	113	120	94	142	221	291	1480	3530	1600	859	398
28	300	117	120	92	140	207	304	1390	3240	1480	842	396
29	295	122	120	90	---	172	337	1410	3160	1380	841	503
30	297	125	120	88	---	148	388	1450	3320	1430	816	618
31	279	---	110	86	---	155	---	1400	---	1400	727	---
TOTAL	11347	3947	3761	3252	2960	6193	9105	36572	82930	65360	31053	14894
MEAN	366	132	121	105	106	200	303	1180	2764	2108	1002	496
MAX	541	289	141	120	142	391	403	2700	3630	3620	1450	624
MIN	279	93	98	86	86	138	152	659	1520	1350	715	382
AC-FT	22510	7830	7460	6450	5870	12280	18060	72540	164500	129600	61590	29540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	263	149	107	99.2	103	129	362	1392	1925	1029	528	330																																	
MAX	542	482	228	178	175	251	677	2384	3259	2248	1405	841																																	
(WY)	1986	1986	1987	1986	1986	1972	1987	1987	1979	1957	1957	1970																																	
MIN	109	76.6	51.8	55.6	65.9	87.6	169	502	549	201	159	107																																	
(WY)	1957	1957	1957	1957	1978	1977	1968	1977	1977	1977	1956	1956																																	

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1951 - 1995

ANNUAL TOTAL	181833	271374	
ANNUAL MEAN	498	743	541
HIGHEST ANNUAL MEAN			906
LOWEST ANNUAL MEAN			219
HIGHEST DAILY MEAN	2590	May 31	3630
LOWEST DAILY MEAN	78	Jan 31	86
ANNUAL SEVEN-DAY MINIMUM	83	Jan 29	88
INSTANTANEOUS PEAK FLOW			3820
INSTANTANEOUS PEAK STAGE			4.94
ANNUAL RUNOFF (AC-FT)	360700	538300	391700
10 PERCENT EXCEEDS	1740	2360	1640
50 PERCENT EXCEEDS	212	344	213
90 PERCENT EXCEEDS	91	100	90

a-Also occurred Feb 1-2.

08219500 SOUTH FORK RIO GRANDE AT SOUTH FORK, CO

LOCATION.--Lat 37°39'25", long 106°38'55", in SW¹/4NE¹/4 sec.3, T.39 N., R.3 E., Rio Grande County, Hydrologic Unit 13010001, on left bank near U.S. Highway 160, 0.1 mi downstream from Church Creek, 0.9 mi southwest of village of South Fork, and 1.5 mi upstream from mouth.

DRAINAGE AREA.--216 mi².

PERIOD OF RECORD.--August 1910 to September 1922, May 1936 to current year. Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS.--WSP 898: 1911(M). WSP 1312: 1912, 1944(M). WSP 1632: 1956-58(P).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,221.79 ft above sea level. Aug. 9, 1910 to Mar. 28, 1915, nonrecording gage, and Mar. 29, 1915 to Sept. 30, 1922, water-stage recorder, at bridges 1 mi downstream at different datums.

REMARKS.--Estimated daily discharges: Nov. 15 to Mar. 9, Mar 27, and Mar. 30 to Apr. 2. Records good except for estimated daily discharges, which are poor. Transmountain diversions from Colorado River basin to drainage area upstream from station through Treasure Pass ditch. Natural flow of stream affected by a few small diversions for irrigation, slight regulation by Beaver Creek Reservoir, capacity, 4,760 acre-ft, and several smaller storage reservoirs.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 5, 1911, exceeded all other observed floods at this location since at least 1873. Flood of June 29, 1927, reached a stage about 1 ft lower than that of Oct. 5, 1911, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	79	64	52	50	60	103	307	703	1700	201	102
2	81	76	62	56	48	60	103	356	908	1360	188	100
3	70	80	64	52	50	58	103	361	1030	1190	173	97
4	73	76	64	58	46	62	110	345	1170	1060	164	85
5	84	81	68	58	49	60	130	395	1410	924	159	78
6	147	80	68	50	52	56	148	377	1540	935	154	79
7	111	81	64	50	50	50	180	342	1450	973	146	93
8	104	89	60	54	50	56	219	296	1460	963	141	98
9	99	85	54	52	46	66	246	269	1460	924	144	102
10	94	77	54	52	47	77	212	283	1370	922	136	109
11	87	70	60	56	50	89	179	334	1380	883	134	106
12	80	77	60	46	56	101	168	373	1500	820	137	95
13	78	73	62	42	56	94	187	368	1660	756	178	83
14	83	67	58	44	56	94	224	377	1880	666	162	78
15	97	62	56	54	50	105	224	554	1940	604	147	78
16	106	66	56	44	45	119	202	780	1920	623	123	71
17	110	72	58	40	45	119	201	840	2170	602	128	69
18	105	72	60	37	47	124	180	712	2330	555	108	80
19	98	70	62	42	47	143	175	622	1860	558	109	82
20	96	74	62	42	50	145	160	649	1820	499	137	67
21	96	72	60	45	54	161	151	827	1770	435	129	64
22	98	66	60	39	56	177	146	1070	1620	394	196	63
23	101	60	66	37	54	162	135	1200	1470	356	195	62
24	103	64	66	42	56	156	127	1040	1390	325	154	63
25	101	64	62	46	56	139	132	883	1340	304	154	69
26	108	70	60	50	58	124	144	775	1280	285	149	72
27	106	60	56	48	54	118	165	758	1210	268	123	78
28	106	60	56	43	56	115	188	744	1170	252	122	76
29	110	56	60	43	---	109	234	708	1160	237	156	157
30	110	62	64	39	---	94	283	607	1530	230	132	143
31	94	---	58	45	---	96	---	584	---	220	116	---
TOTAL	3045	2141	1884	1458	1434	3189	5159	18136	44901	20823	4595	2599
MEAN	98.2	71.4	60.8	47.0	51.2	103	172	585	1497	672	148	86.6
MAX	147	89	68	58	58	177	283	1200	2330	1700	201	157
MIN	70	56	54	37	45	50	103	269	703	220	108	62
AC-FT	6040	4250	3740	2890	2840	6330	10230	35970	89060	41300	9110	5160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1995, BY WATER YEAR (WY)

MEAN	92.2	58.5	44.3	37.8	40.7	63.6	217	694	846	263	112	86.3
MAX	569	152	106	88.6	78.3	131	479	1282	1746	794	264	357
(WY)	1912	1987	1912	1986	1986	1989	1962	1984	1979	1957	1957	1970
MIN	32.1	23.9	18.0	13.6	18.2	21.5	85.2	211	113	58.5	43.1	23.6
(WY)	1956	1961	1977	1977	1955	1955	1955	1977	1977	1940	1978	1956

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	FOR 1996 WATER YEAR	FOR 1997 WATER YEAR	FOR 1998 WATER YEAR	FOR 1999 WATER YEAR
ANNUAL TOTAL	71474	109364						
ANNUAL MEAN	196	300						
HIGHEST ANNUAL MEAN			214					
LOWEST ANNUAL MEAN			359					1985
HIGHEST DAILY MEAN			68.9					1977
LOWEST DAILY MEAN								
ANNUAL SEVEN-DAY MINIMUM								
INSTANTANEOUS PEAK FLOW								
INSTANTANEOUS PEAK STAGE								
ANNUAL RUNOFF (AC-FT)	141800	216900						
10 PERCENT EXCEEDS	593	967						
50 PERCENT EXCEEDS	78	103						
90 PERCENT EXCEEDS	45	50						

a-Also occurred Jan 23.

b-Present site and datum, from rating curve extended above 1500 ft³/s.

c-From floodmarks.

08220000 RIO GRANDE NEAR DEL NORTE, CO

LOCATION.--Lat 37°41'22", long 106°27'38", in NW¹/₄ sec.29, T.40 N., R.5 E., Rio Grande County, Hydrologic Unit 13010001, on right bank 20 ft downstream from county highway bridge, 5.0 mi upstream from Pinos Creek, and 6.0 mi west of Del Norte.

DRAINAGE AREA.--1,320 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1889 to current year. Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS.--WSP 763: Drainage area. WSP 1312: 1889, 1901, 1913-14.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,980.25 ft above sea level. Prior to May 16, 1908, nonrecording gage at site 4 mi downstream at different datum. May 16, 1908 to Nov. 8, 1910, nonrecording gages on bridge at present site and datum.

REMARKS.--Estimated daily discharges: Nov. 16, 24-30, and Dec. 1 to Feb. 16. Records good except for estimated daily discharges, which are poor. Small diversions upstream from station for irrigation. Flow regulated by Beaver Creek Reservoir since 1910, Santa Maria Reservoir since 1912, Rio Grande Reservoir since 1912, and Continental Reservoir since 1925, combined capacity, 126,100 acre-ft, and by several smaller reservoirs. Transmountain diversions to drainage area upstream from station from Colorado River basin (see elsewhere in this report).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1873, that of Oct. 5, 1911, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	464	401	250	210	180	270	298	924	2410	6120	1850	766
2	455	368	250	210	180	273	305	1120	3180	5440	1770	716
3	416	329	260	190	180	261	294	1130	3930	4810	1650	677
4	443	311	260	230	180	258	308	1090	4230	4440	1570	651
5	558	293	280	220	180	248	352	1190	4230	3800	1660	648
6	718	320	300	230	180	260	439	1170	5030	3740	1590	630
7	652	326	270	230	180	218	531	1100	4020	3950	1410	672
8	617	343	240	240	170	207	612	1060	4490	4070	1590	695
9	566	328	190	230	180	221	714	1010	4860	3900	1590	700
10	528	304	190	230	180	247	647	1050	3930	4030	1470	718
11	506	299	220	250	180	282	568	1110	4080	3960	1100	740
12	481	372	240	230	190	328	550	1180	4690	3790	1060	691
13	447	340	240	210	190	299	581	1190	4480	3550	1100	615
14	434	293	210	210	190	299	656	1130	4710	3280	1140	557
15	487	227	200	230	190	330	669	1460	5030	2980	1080	532
16	493	205	190	210	190	401	611	2050	4980	2920	977	509
17	505	315	210	180	199	459	622	2380	5500	2930	950	508
18	485	297	230	160	201	446	562	2150	6370	2810	875	532
19	489	289	230	170	205	504	579	2040	5080	2830	856	559
20	483	303	210	180	216	522	524	2080	4940	2480	946	511
21	478	291	230	190	220	567	502	2640	4940	2290	881	495
22	474	293	250	180	231	677	496	3460	5040	2240	1030	494
23	484	210	270	160	238	595	466	4280	5400	2080	1230	469
24	490	188	250	170	251	588	438	3720	5520	2040	1140	463
25	485	210	230	180	260	514	442	2930	5410	1850	1150	476
26	481	250	260	180	273	462	458	2740	5310	1970	1160	478
27	464	210	250	190	262	409	488	2560	5250	2090	1000	502
28	442	190	220	180	261	417	521	2440	4850	1970	968	489
29	435	180	230	170	---	357	599	2380	4720	1810	1010	656
30	440	210	240	150	---	307	695	2350	5390	1870	966	798
31	416	---	230	150	---	294	---	2210	---	1820	874	---
TOTAL	15316	8495	7330	6150	5737	11520	15527	59324	142000	97860	37643	17947
MEAN	494	283	236	198	205	372	518	1914	4733	3157	1214	598
MAX	718	401	300	250	273	677	714	4280	6370	6120	1850	798
MIN	416	180	190	150	170	207	294	924	2410	1810	856	463
AC-FT	30380	16850	14540	12200	11380	22850	30800	117700	281700	194100	74660	35600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1890 - 1995, BY WATER YEAR (WY)

	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	
MEAN	482	285	207	189	197	272	772	2506	3177	1445	794	509
MAX	2451	804	420	340	300	646	1999	4449	6240	3451	1745	2001
(WY)	1912	1917	1926	1912	1928	1910	1895	1922	1921	1957	1957	1927
MIN	134	114	105	89.8	111	153	317	747	475	239	190	135
(WY)	1957	1957	1957	1977	1977	1965	1951	1977	1934	1934	1956	1956

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1890 - 1995
ANNUAL TOTAL	272279	424849	
ANNUAL MEAN	746	1164	908
HIGHEST ANNUAL MEAN			1482
LOWEST ANNUAL MEAN			311
HIGHEST DAILY MEAN	4240	May 31	6370 Jun 18
LOWEST DAILY MEAN	^a 120	Jan 31	^b 150 Jan 30
ANNUAL SEVEN-DAY MINIMUM	129	Jan 28	170 Jan 28
INSTANTANEOUS PEAK FLOW			7410 Jun 18
INSTANTANEOUS PEAK STAGE		5.50	Jun 18
ANNUAL RUNOFF (AC-FT)	540100	842700	657900
10 PERCENT EXCEEDS	2480	3930	2470
50 PERCENT EXCEEDS	304	493	365
90 PERCENT EXCEEDS	160	190	165

a-Also occurred Feb 1-2.

b-Also occurred Jan 31.

c-From rating curve extended above 12900 ft³/s.

08220000 RIO GRANDE NEAR DEL NORTE, CO--Continued
(Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)
OCT												
18...	0830	500	84	7.3	-2.0	2.5	566	8.9	88	32	10	1.7
NOV												
22...	0915	268	99	7.7	-3.5	0.5	573	10.2	94	38	12	1.9
DEC												
20...	0845	e210	112	7.1	-7.5	0.0	570	9.9	91	41	13	2.0
JAN												
10...	0845	e230	107	7.9	3.5	0.0	570	10.6	97	41	13	2.0
FEB												
07...	0845	e180	110	7.6	-1.5	0.0	570	11.4	105	40	13	1.9
MAR												
21...	0830	590	87	7.8	10.0	4.0	572	10.2	103	31	10	1.5
APR												
11...	0800	576	84	7.8	-2.5	1.0	561	10.3	99	32	10	1.7
MAY												
09...	0830	1030	80	7.5	8.0	6.0	565	9.3	101	31	9.8	1.6
JUN												
14...	1015	4870	46	7.6	16.0	7.0	575	9.1	100	17	5.4	0.89
JUL												
18...	1245	2790	49	7.3	21.5	11.5	571	8.2	101	18	5.7	0.94
AUG												
15...	0800	1130	64	7.3	9.5	12.5	571	7.8	98	25	7.8	1.2

DATE	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-A BONATE WATER DIS IT FIELD (MG/L AS HCO3)	CAR-B BONATE WATER DIS IT FIELD (MG/L AS CO3)	ALKA-C LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT												
18...	3.6	19	0.3	1.5	42	0	34	5.5	0.70	0.10	21	62
NOV												
22...	4.5	20	0.3	1.7	48	0	40	7.7	1.0	0.10	25	77
DEC												
20...	4.8	20	0.3	1.6	54	0	44	8.1	1.0	<0.10	27	93
JAN												
10...	4.6	19	0.3	1.7	52	0	43	7.7	0.90	<0.10	26	88
FEB												
07...	4.7	19	0.3	1.7	53	0	43	6.3	1.6	0.10	26	89
MAR												
21...	3.7	19	0.3	1.9	43	0	35	6.0	0.90	<0.10	21	74
APR												
11...	3.5	18	0.3	1.5	40	0	32	5.4	1.3	<0.10	22	74
MAY												
09...	3.7	20	0.3	1.4	36	0	30	4.9	0.90	<0.10	21	73
JUN												
14...	1.9	18	0.2	1.0	19	0	15	3.0	0.30	<0.10	17	47
JUL												
18...	2.0	18	0.2	0.90	24	0	20	2.9	0.30	<0.10	16	50
AUG												
15...	2.6	18	0.2	1.4	33	0	27	3.3	0.40	<0.10	19	56

A-Field dissolved bicarbonate, determined by incremental titration method.
 B-Field dissolved carbonate, determined by incremental titration method.
 C-Field total dissolved alkalinity, determined by incremental titration method.
 e-estimated

08220000 RIO GRANDE NEAR DEL NORTE, CO--Continued
(Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)
OCT 18...	65	0.08	<0.010	--	<0.050	<0.015	<0.20	<0.20	0.040	0.030	--
NOV 22...	78	0.10	<0.010	0.060	0.060	<0.015	<0.20	<0.20	0.020	0.030	--
DEC 20...	85	0.13	<0.010	0.080	0.080	<0.015	<0.20	<0.20	0.030	0.030	--
JAN 10...	82	0.12	<0.010	0.120	0.120	<0.015	<0.20	<0.20	0.040	0.030	--
FEB 07...	82	0.12	<0.010	0.090	0.090	<0.015	<0.20	<0.20	0.040	<0.010	--
MAR 21...	66	0.10	<0.010	--	<0.050	<0.015	0.20	<0.20	0.040	0.030	--
APR 11...	65	0.10	<0.010	--	<0.050	<0.015	<0.20	<0.20	0.040	0.030	--
MAY 09...	61	0.10	<0.010	--	<0.050	<0.015	<0.20	<0.20	0.050	0.030	360
JUN 14...	39	0.06	<0.010	--	<0.050	0.020	0.50	0.20	0.170	0.050	--
JUL 18...	41	0.07	<0.010	--	<0.050	0.020	<0.20	<0.20	0.020	<0.010	--
AUG 15...	52	0.08	<0.010	--	<0.050	0.020	0.20	<0.20	0.060	0.030	--

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ANTI- MONY, TOTAL (UG/L AS SB)	ANTI- MONY, DIS- SOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, DIS- SOLVED (UG/L AS B)	CADIUM TOTAL RECOV- ERABLE (UG/L AS CD)
OCT 18...	--	--	--	--	--	--	--	--	--	--	--
NOV 22...	--	--	--	--	--	--	--	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--	--
JAN 10...	--	--	--	--	--	--	--	--	--	--	--
FEB 07...	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	--	--	--	--	--	--	--	--	--	--	--
APR 11...	--	--	--	--	--	--	--	--	--	--	--
MAY 09...	--	<1	--	<1	<100	--	<10	--	<10	--	<1
JUN 14...	--	--	--	--	--	--	--	--	--	--	--
JUL 18...	--	--	--	--	--	--	--	--	--	--	--
AUG 15...	20	--	<1	--	--	17	--	<1	--	<10	--

08220000 RIO GRANDE NEAR DEL NORTE, CO--Continued
(Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 18...	--	--	--	--	--	--	--	--	120	--	--
NOV 22...	--	--	--	--	--	--	--	--	91	--	--
DEC 20...	--	--	--	--	--	--	--	--	57	--	--
JAN 10...	--	--	--	--	--	--	--	--	41	--	--
FEB 07...	--	--	--	--	--	--	--	--	34	--	--
MAR 21...	--	--	--	--	--	--	--	--	87	--	--
APR 11...	--	--	--	--	--	--	--	--	140	--	--
MAY 09...	--	<1	--	<1	--	<1	--	540	150	2	--
JUN 14...	--	--	--	--	--	--	--	--	120	--	--
JUL 18...	--	--	--	--	--	--	--	--	65	--	--
AUG 15...	<1	--	<1	--	<1	--	1	--	84	--	<1

DATE	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 18...	--	--	--	13	--	--	--	--	8	11	--
NOV 22...	--	--	--	19	--	--	--	--	11	8.0	--
DEC 20...	--	--	--	16	--	--	--	--	14	e7.9	--
JAN 10...	--	--	--	14	--	--	--	--	38	e2.4	--
FEB 07...	--	--	--	19	--	--	--	--	9	e4.4	--
MAR 21...	--	--	--	13	--	--	--	--	19	30	--
APR 11...	--	--	--	12	--	--	--	--	13	20	--
MAY 09...	<10	--	20	9	<0.10	--	<1	--	121	337	<1
JUN 14...	--	--	--	11	--	--	--	--	141	1850	--
JUL 18...	--	--	--	11	--	--	--	--	27	203	--
AUG 15...	--	<4	--	11	--	<0.1	--	<1	11	34	--

08220000 RIO GRANDE NEAR DEL NORTE, CO--Continued
 (Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	--	--	--	--	--	--	--	--	--	--	--
NOV 22...	--	--	--	--	--	--	--	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--	--
JAN 10...	--	--	--	--	--	--	--	--	--	--	--
FEB 07...	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	--	--	--	--	--	--	--	--	--	--	--
APR 11...	--	--	--	--	--	--	--	--	--	--	--
MAY 09...	--	<1	--	<1	--	70	--	--	70	--	4.4
JUN 14...	--	--	--	--	--	--	--	--	--	--	--
JUL 18...	--	--	--	--	--	--	--	--	--	--	--
AUG 15...	<1	--	<1	--	<1	--	58	<6	--	34	--

CROSS SECTION ANALYSES, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
MAY						
09...	0926	104	115	7.6	6.5	9.2
09...	0931	94.0	81	7.6	6.0	9.3
09...	0935	83.0	97	7.8	6.0	9.4
09...	0938	72.0	81	7.8	6.0	9.4
09...	0941	61.0	81	7.7	6.0	9.4
09...	0945	50.0	80	7.8	6.0	9.3
09...	0948	39.0	80	7.9	6.0	9.3
09...	0950	28.0	80	7.9	6.0	9.3
09...	0952	17.0	80	7.9	6.0	9.2
09...	0954	6.00	81	7.8	6.5	9.1

08223000 RIO GRANDE AT ALAMOSA, CO

LOCATION.--Lat 37°28'53", long 105°52'46", in SE¹/₄NE¹/₄ sec.4, T.37 N., R.10 E., Alamosa County, Hydrologic Unit 13010002, on right bank 0.2 mi northwest of city limits of Alamosa and 9 mi upstream from Alamosa Creek.

DRAINAGE AREA.--1,710 mi², approximately.

PERIOD OF RECORD.--May 1912 to current year. Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS.--WSP 928: Drainage area. WSP 1312: 1936(M). WSP 1732: 1951.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,532.66 ft above sea level. Prior to Apr. 7, 1915, nonrecording gages, and Apr. 7, 1915 to Nov. 5, 1935, water-stage recorder, at railroad and highway bridges in Alamosa 1.0 to 2.5 mi downstream at different datums. Nov. 6, 1935 to June 30, 1942, water-stage recorder at present site at datum 1.00 ft, higher.

REMARKS.--Estimated daily discharges: Oct. 23-26 and Nov. 21 to Feb. 10. Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in October 1911 with a stage of 0.2 ft lower than that of July 1, 1927, from floodmarks, probably exceeded that of July 1, 1927; and is probably the greatest since at least 1884, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	36	255	235	205	278	209	43	45	1870	66	30
2	63	37	290	230	210	282	225	59	38	3170	56	27
3	104	74	305	220	220	275	246	64	58	3980	43	25
4	93	69	285	235	230	261	192	66	145	3590	38	31
5	67	65	340	215	225	259	88	40	194	3140	38	28
6	61	56	340	250	220	259	65	49	111	2670	35	24
7	63	48	305	230	235	207	58	77	315	2310	34	22
8	51	42	260	235	230	130	58	52	137	2140	32	22
9	47	41	280	250	230	104	58	46	170	2120	33	23
10	48	43	260	235	225	82	65	40	487	2040	32	29
11	47	39	250	225	224	72	61	48	124	1930	29	40
12	46	35	240	235	214	69	52	63	112	1790	28	64
13	50	32	245	260	220	71	42	33	360	1460	27	66
14	53	30	255	235	230	69	49	28	207	1010	30	56
15	52	31	265	210	242	59	49	26	278	692	36	43
16	55	32	265	205	232	50	42	24	604	412	34	37
17	78	60	245	220	214	52	41	29	774	280	26	35
18	99	123	240	210	206	49	30	46	986	277	24	35
19	96	177	250	210	215	38	34	40	1440	265	23	43
20	75	172	255	185	229	34	37	34	2060	284	23	57
21	60	175	260	180	252	34	38	26	1650	247	29	66
22	71	275	255	195	276	33	39	35	1500	166	40	59
23	68	310	250	210	276	43	39	109	1520	118	45	61
24	62	285	270	220	263	60	40	365	1540	102	106	61
25	58	195	275	200	268	48	47	149	1770	95	85	60
26	54	220	260	200	277	40	45	51	1910	62	40	57
27	51	295	260	205	285	36	34	29	1860	92	44	56
28	48	230	280	190	282	60	31	29	1780	76	35	54
29	41	250	265	215	---	191	30	23	1740	54	36	58
30	39	255	225	220	---	164	31	28	1620	47	46	59
31	36	---	240	225	---	202	---	48	---	65	43	---
TOTAL	1871	3732	8270	6790	6635	3611	2075	1799	25535	36554	1236	1328
MEAN	60.4	124	267	219	237	116	69.2	58.0	851	1179	39.9	44.3
MAX	104	310	340	260	285	282	246	365	2060	3980	106	66
MIN	35	30	225	180	205	33	30	23	38	47	23	22
AC-FT	3710	7400	16400	13470	13160	7160	4120	3570	50650	72500	2450	2630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1995, BY WATER YEAR (WY)

MEAN	152	216	209	186	211	242	223	430	762	242	111	119
MAX	1207	908	483	335	360	522	1198	3027	5598	1514	973	1457
(WY)	1917	1917	1987	1922	1986	1987	1987	1987	1921	1917	1916	1927
MIN	7.26	14.7	23.5	24.8	24.1	13.0	11.9	27.4	36.7	18.6	6.58	9.57
(WY)	1957	1935	1957	1957	1957	1957	1933	1931	1977	1977	1913	1959

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1912 - 1995
ANNUAL TOTAL	43003	99436	
ANNUAL MEAN	118	272	255
HIGHEST ANNUAL MEAN			873
LOWEST ANNUAL MEAN			54.4
HIGHEST DAILY MEAN	557	3980	10600
LOWEST DAILY MEAN	18	^a 22	1.0
ANNUAL SEVEN-DAY MINIMUM	21	25	2.4
INSTANTANEOUS PEAK FLOW		4050	^b 14000
INSTANTANEOUS PEAK STAGE		8.84	^c 8.37
ANNUAL RUNOFF (AC-FT)	85300	197200	185000
10 PERCENT EXCEEDS	269	325	459
50 PERCENT EXCEEDS	62	82	148
90 PERCENT EXCEEDS	25	32	22

a-Also occurred Sep 8.
b-Site and datum then in use.
c-Maximum gage height, 10.62 ft, Jun 20, 1949.

CLOSED BASIN IN SAN LUIS VALLEY, CO

08227000 SAGUACHE CREEK NEAR SAGUACHE, CO

LOCATION.--Lat 38°09'48", long 106°17'24", in SE¹/4SE¹/4 sec.10, T.45 N., R.6 E., Saguache County, Hydrologic Unit 13010004, on left bank 0.2 mi downstream from Middle Creek and 10 mi northwest of Saguache.

DRAINAGE AREA.--595 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1910 to September 1912, June 1914 to current year. Monthly discharge only for some periods, published in WSP 1312

REVISED RECORDS.--WSP 1242: 1948-49. WSP 1312: 1912, 1934(M), 1942(M). WSP 1923: 1951.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is about 8,030 ft above sea level, from topographic map. Prior to Apr. 9, 1934, at sites 0.8 mi downstream at different datums. Apr. 10, 1934 to Nov. 20, 1966, at present site at datum 1.00 ft, higher.

REMARKS.--Estimated daily discharges: Nov. 15 to Feb. 19, and Mar. 6. Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by transmountain diversions from Colorado River basin to drainage area above station through Tarbell ditch (see elsewhere in this report), and diversions above station for irrigation.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	30	28	27	29	33	35	67	134	383	94	67
2	44	35	27	28	28	31	37	58	168	384	85	70
3	38	36	27	29	27	28	33	63	199	333	83	70
4	37	33	31	29	26	27	33	58	230	291	84	65
5	42	22	34	29	26	24	38	61	271	264	85	61
6	48	31	33	27	28	28	43	68	293	231	79	58
7	46	35	31	28	27	18	47	58	323	231	79	74
8	46	34	29	29	26	19	50	56	326	234	85	97
9	42	30	27	31	25	26	56	54	305	228	74	99
10	40	25	28	30	27	32	46	56	289	225	81	95
11	39	29	29	30	28	32	31	65	280	226	76	86
12	38	37	29	29	27	36	32	72	289	214	82	73
13	34	31	30	28	25	35	36	76	321	202	89	65
14	32	15	29	30	28	34	44	65	358	195	83	61
15	40	16	28	30	26	38	47	74	379	195	80	60
16	41	30	27	29	25	44	45	104	402	181	69	57
17	41	31	28	28	23	44	41	112	430	188	66	55
18	41	32	29	27	24	43	39	98	463	189	65	58
19	38	31	28	29	25	48	45	91	476	185	69	66
20	38	32	28	27	27	48	44	95	387	163	83	57
21	38	31	30	29	28	49	46	124	364	149	81	53
22	38	28	30	27	26	62	42	148	363	149	82	52
23	37	25	31	26	28	44	42	166	356	137	88	49
24	38	27	32	27	28	43	40	162	348	124	84	50
25	37	29	31	28	29	34	41	152	312	114	83	52
26	37	27	31	29	31	31	45	140	296	108	117	51
27	37	28	30	30	29	26	46	129	280	101	97	55
28	35	26	31	28	29	34	48	124	283	97	93	52
29	34	25	28	26	---	33	52	136	283	96	106	61
30	34	26	28	26	---	24	63	151	351	96	83	68
31	30	---	29	27	---	31	---	137	---	100	73	---
TOTAL	1203	867	911	877	755	1079	1287	3020	9559	6013	2578	1937
MEAN	38.8	28.9	29.4	28.3	27.0	34.8	42.9	97.4	319	194	83.2	64.6
MAX	48	37	34	31	31	62	63	166	476	384	117	99
MIN	30	15	27	26	23	18	31	54	134	96	65	49
AC-FT	2390	1720	1810	1740	1500	2140	2550	5990	18960	11930	5110	3840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1995, BY WATER YEAR (WY)

MEAN	44.2	35.7	25.9	23.2	26.5	38.5	69.2	158	177	95.1	73.3	51.2
MAX	108	60.1	40.0	40.3	41.4	70.0	257	437	474	299	198	194
(WY)	1912	1930	1928	1986	1986	1924	1924	1924	1957	1957	1929	1929
MIN	20.6	16.4	13.9	12.2	13.4	21.5	34.2	34.8	19.4	20.5	23.3	15.0
(WY)	1979	1978	1978	1978	1966	1964	1978	1981	1963	1940	1940	1956

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1910 - 1995
ANNUAL TOTAL	16466	30086	
ANNUAL MEAN	45.1	82.4	68.1
HIGHEST ANNUAL MEAN			122
LOWEST ANNUAL MEAN			28.0
HIGHEST DAILY MEAN	173	Jun 1	678
LOWEST DAILY MEAN	13	Feb 3	7.0
ANNUAL SEVEN-DAY MINIMUM	18	Feb 2	24
INSTANTANEOUS PEAK FLOW			523
INSTANTANEOUS PEAK STAGE			3.85
ANNUAL RUNOFF (AC-FT)	32660	59680	49330
10 PERCENT EXCEEDS	88		149
50 PERCENT EXCEEDS	34		41
90 PERCENT EXCEEDS	24		21

a-Present datum, from rating curve extended above 83 ft³/s.

b-Maximum gage height, 3.94 ft, May 20, 1970.

08227000 SAGUACHE CREEK NEAR SAGUACHE, CO--Continued
(Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)
OCT												
18...	1250	40	132	7.7	7.5	6.0	566	8.4	92	50	16	2.4
NOV												
22...	1300	e28	126	7.3	-0.5	1.0	573	10.7	100	50	16	2.5
DEC												
20...	1245	e28	128	7.6	6.0	1.0	569	10.8	102	50	16	2.5
JAN												
10...	1145	e30	131	8.2	6.5	0.0	568	11.4	105	50	16	2.5
FEB												
07...	1215	e27	127	7.9	14.5	0.5	566	10.6	99	50	16	2.4
MAR												
21...	1100	52	119	7.9	14.0	7.0	572	9.1	100	47	15	2.2
APR												
11...	1130	19	132	8.3	1.0	1.0	562	10.4	99	54	17	2.8
MAY												
09...	1230	52	134	8.1	11.5	10.0	565	8.6	103	54	17	2.7
JUN												
14...	1415	370	147	7.8	20.5	18.0	572	7.2	102	55	17	3.1
JUL												
18...	1615	190	91	7.6	20.5	16.5	570	7.3	101	37	12	1.8
AUG												
15...	1215	83	102	7.9	16.5	16.5	569	7.2	99	40	13	1.9

DATE	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR- ^A BONATE WATER DIS IT FIELD (MG/L AS HCO3)	CAR- ^B BONATE WATER DIS IT FIELD (MG/L AS CO3)	ALKA- ^C LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT												
18...	5.1	18	0.3	1.9	73	0	60	4.0	1.2	0.20	29	92
NOV												
22...	5.4	18	0.3	2.0	70	0	58	4.2	1.0	0.20	30	97
DEC												
20...	5.7	19	0.3	1.9	74	0	61	4.5	1.1	0.10	32	106
JAN												
10...	5.7	19	0.3	2.1	73	0	60	4.5	1.2	0.10	32	110
FEB												
07...	5.9	20	0.4	2.3	71	0	58	3.3	2.1	0.20	32	107
MAR												
21...	4.9	18	0.3	2.7	62	0	50	4.6	1.8	0.10	26	99
APR												
11...	5.7	18	0.3	2.1	77	0	63	3.9	1.8	0.20	29	101
MAY												
09...	6.4	20	0.4	2.1	76	0	62	4.8	1.6	0.20	30	111
JUN												
14...	7.7	22	0.5	3.2	76	0	63	5.4	1.4	0.20	29	127
JUL												
18...	3.9	18	0.3	1.3	52	0	42	2.2	0.50	0.10	24	80
AUG												
15...	4.3	18	0.3	1.6	55	0	45	2.4	0.70	0.10	27	81

A-Field dissolved bicarbonate, determined by incremental titration method.
 B-Field dissolved carbonate, determined by incremental titration method.
 C-Field total dissolved alkalinity, determined by incremental titration method
 e-estimated

08227000 SAGUACHE CREEK NEAR SAGUACHE, CO--Continued
(Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)
OCT 18...	96	0.13	<0.010	--	<0.050	<0.015	<0.20	<0.20	0.070	0.080	--
NOV 22...	96	0.13	<0.010	--	<0.050	<0.015	<0.20	<0.20	0.120	0.050	--
DEC 20...	101	0.14	<0.010	0.050	0.050	<0.015	<0.20	<0.20	0.060	0.040	--
JAN 10...	101	0.15	<0.010	0.080	0.080	<0.015	<0.20	<0.20	0.060	0.060	--
FEB 07...	99	0.15	<0.010	--	<0.050	<0.015	0.20	<0.20	0.080	0.050	--
MAR 21...	88	0.13	<0.010	--	<0.050	<0.015	0.20	<0.20	0.060	0.040	--
APR 11...	101	0.14	<0.010	--	<0.050	<0.015	0.30	<0.20	0.120	0.050	--
MAY 09...	103	0.15	<0.010	--	<0.050	<0.015	0.20	<0.20	0.100	0.060	350
JUN 14...	105	0.17	<0.010	--	<0.050	<0.015	0.90	0.70	0.200	0.130	--
JUL 18...	72	0.11	<0.010	--	<0.050	<0.015	0.30	<0.20	0.090	0.060	--
AUG 15...	79	0.11	<0.010	--	<0.050	<0.015	0.30	<0.20	0.090	0.070	--

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ANTI- MONY, TOTAL (UG/L AS SB)	ANTI- MONY, DIS- SOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)
OCT 18...	--	--	--	--	--	--	--	--	--	--	--
NOV 22...	--	--	--	--	--	--	--	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--	--
JAN 10...	--	--	--	--	--	--	--	--	--	--	--
FEB 07...	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	--	--	--	--	--	--	--	--	--	--	--
APR 11...	--	--	--	--	--	--	--	--	--	--	--
MAY 09...	--	<1	--	2	<100	--	<10	--	<10	--	<1
JUN 14...	--	--	--	--	--	--	--	--	--	--	--
JUL 18...	--	--	--	--	--	--	--	--	--	--	--
AUG 15...	20	--	<1	--	--	16	--	<1	--	<10	--

08227000 SAGUACHE CREEK NEAR SAGUACHE, CO--Continued
(Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 18...	--	--	--	--	--	--	--	--	220	--	--
NOV 22...	--	--	--	--	--	--	--	--	180	--	--
DEC 20...	--	--	--	--	--	--	--	--	120	--	--
JAN 10...	--	--	--	--	--	--	--	--	110	--	--
FEB 07...	--	--	--	--	--	--	--	--	110	--	--
MAR 21...	--	--	--	--	--	--	--	--	140	--	--
APR 11...	--	--	--	--	--	--	--	--	180	--	--
MAY 09...	--	<1	-	<1	--	<1	--	710	17	<1	--
JUN 14...	--	--	--	--	--	--	--	--	270	--	--
JUL 18...	--	--	--	--	--	--	--	--	170	--	--
AUG 15...	<1	--	<1	--	<1	--	<1	--	170	--	<1

DATE	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 18...	--	--	--	15	--	--	--	--	14	1.5	--
NOV 22...	--	--	--	20	--	--	--	--	62	e4.7	--
DEC 20...	--	--	--	12	--	--	--	--	17	e1.3	--
JAN 10...	--	--	--	12	--	--	--	--	14	e1.1	--
FEB 07...	--	--	--	16	--	--	--	--	29	e2.1	--
MAR 21...	--	--	--	14	--	--	--	--	52	7.3	--
APR 11...	--	--	--	29	--	--	--	--	47	2.4	--
MAY 09...	<10	--	30	15	<0.10	--	3	--	28	3.0	<1
JUN 14...	--	--	--	29	--	--	--	--	102	102	--
JUL 18...	--	--	--	13	--	--	--	--	61	31	--
AUG 15...	--	5	--	7	--	<0.1	--	2	15	3.4	--

08227000 SAGUACHE CREEK NEAR SAGUACHE, CO--Continued
 (Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	--	--	--	--	--	--	--	--	--	--	--
NOV 22...	--	--	--	--	--	--	--	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--	--
JAN 10...	--	--	--	--	--	--	--	--	--	--	--
FEB 07...	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	--	--	--	--	--	--	--	--	--	--	--
APR 11...	--	--	--	--	--	--	--	--	--	--	--
MAY 09...	--	<1	--	<1	--	110	--	--	<10	--	4.5
JUN 14...	--	--	--	--	--	--	--	--	--	--	--
JUL 18...	--	--	--	--	--	--	--	--	--	--	--
AUG 15...	<1	--	<1	--	<1	--	87	<6	--	3	--

08235250 ALAMOSA RIVER ABOVE WIGHTMAN FORK NEAR JASPER, CO

LOCATION.--Lat 37°24'09", long 106°31'17", in SE¹/4SW¹/4 sec.35, T.37 N., R.4 E., Rio Grande County, Hydrologic Unit 13010001, Rio Grande National Forest, on left bank 150 ft upstream from Wightman Fork, 1.9 mi downstream from Bitter Creek, 4.1 mi west of Jasper, and 4.2 mi southeast of Summitville.

DRAINAGE AREA.--37.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1995 to September 1995 (seasonal record).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,380 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: July 21 and Sept. 25-26. Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period July to September, 218 ft³/s, July 21, gage height, 4.26 ft, from rating curve extended above 172 ft³/s; minimum daily, 33 ft³/s, Sept. 23.DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	111	48
2	---	---	---	---	---	---	---	---	---	---	103	46
3	---	---	---	---	---	---	---	---	---	---	97	43
4	---	---	---	---	---	---	---	---	---	---	101	40
5	---	---	---	---	---	---	---	---	---	---	95	38
6	---	---	---	---	---	---	---	---	---	---	88	39
7	---	---	---	---	---	---	---	---	---	---	85	47
8	---	---	---	---	---	---	---	---	---	---	86	69
9	---	---	---	---	---	---	---	---	---	---	84	59
10	---	---	---	---	---	---	---	---	---	---	78	54
11	---	---	---	---	---	---	---	---	---	---	84	45
12	---	---	---	---	---	---	---	---	---	---	98	41
13	---	---	---	---	---	---	---	---	---	---	97	39
14	---	---	---	---	---	---	---	---	---	---	80	50
15	---	---	---	---	---	---	---	---	---	---	67	43
16	---	---	---	---	---	---	---	---	---	---	59	38
17	---	---	---	---	---	---	---	---	---	---	57	37
18	---	---	---	---	---	---	---	---	---	---	53	41
19	---	---	---	---	---	---	---	---	---	---	59	37
20	---	---	---	---	---	---	---	---	---	---	85	35
21	---	---	---	---	---	---	---	---	---	194	69	37
22	---	---	---	---	---	---	---	---	---	182	92	34
23	---	---	---	---	---	---	---	---	---	165	80	33
24	---	---	---	---	---	---	---	---	---	153	99	35
25	---	---	---	---	---	---	---	---	---	163	81	40
26	---	---	---	---	---	---	---	---	---	161	71	38
27	---	---	---	---	---	---	---	---	---	151	65	34
28	---	---	---	---	---	---	---	---	---	142	76	36
29	---	---	---	---	---	---	---	---	---	136	67	50
30	---	---	---	---	---	---	---	---	---	131	56	51
31	---	---	---	---	---	---	---	---	---	123	53	---
TOTAL	---	---	---	---	---	---	---	---	---	---	2476	1277
MEAN	---	---	---	---	---	---	---	---	---	---	79.9	42.6
MAX	---	---	---	---	---	---	---	---	---	---	111	69
MIN	---	---	---	---	---	---	---	---	---	---	53	33
AC-FT	---	---	---	---	---	---	---	---	---	---	4910	2530

08235250 ALAMOSA RIVER ABOVE WIGHTMAN FORK NEAR JASPER, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	6.8	6.0	6.5	6.4	5.1	6.2
2	---	---	---	---	---	---	6.7	6.3	6.5	6.2	5.7	6.0
3	---	---	---	---	---	---	6.6	6.1	6.4	6.2	5.9	6.1
4	---	---	---	---	---	---	6.6	5.9	6.3	6.1	5.8	5.9
5	---	---	---	---	---	---	6.5	5.9	6.2	6.0	5.7	5.8
6	---	---	---	---	---	---	6.4	5.8	6.1	5.8	4.4	5.7
7	---	---	---	---	---	---	6.3	5.6	6.0	5.9	4.8	5.8
8	---	---	---	---	---	---	6.3	5.6	6.0	5.5	4.3	5.1
9	---	---	---	---	---	---	6.3	5.2	5.8	5.9	5.2	5.6
10	---	---	---	---	---	---	6.1	5.5	5.8	6.1	5.9	6.0
11	---	---	---	---	---	---	6.1	4.0	5.5	6.0	5.8	5.9
12	---	---	---	---	---	---	5.8	4.6	5.4	5.9	5.8	5.9
13	---	---	---	---	---	---	6.3	5.6	6.2	5.8	5.7	5.8
14	---	---	---	---	---	---	6.2	6.0	6.1	6.2	5.1	5.7
15	---	---	---	---	---	---	6.2	5.7	5.9	6.2	5.6	5.8
16	---	---	---	---	---	---	6.0	5.4	5.7	5.6	5.3	5.5
17	---	---	---	---	---	---	5.7	5.4	5.5	5.4	5.2	5.3
18	---	---	---	---	---	---	6.1	5.4	5.6	5.4	5.1	5.3
19	---	---	---	---	---	---	6.1	3.7	5.3	5.3	5.0	5.2
20	---	---	---	---	---	---	5.8	4.0	5.3	5.1	4.9	5.0
21	---	---	---	---	---	---	5.8	4.7	5.5	5.2	4.7	5.0
22	---	---	---	6.8	6.7	6.7	6.2	4.7	5.9	5.2	4.9	5.1
23	---	---	---	6.7	6.6	6.7	6.6	5.8	6.4	5.0	4.9	5.0
24	---	---	---	6.7	6.6	6.6	6.8	5.1	6.6	5.0	4.1	4.8
25	---	---	---	6.6	6.5	6.6	7.0	5.9	6.8	5.1	4.8	5.0
26	---	---	---	6.6	6.5	6.5	6.9	6.7	6.9	5.1	4.9	5.0
27	---	---	---	6.6	6.4	6.5	6.8	6.2	6.7	5.1	4.9	5.0
28	---	---	---	6.6	6.4	6.5	6.9	5.5	6.6	5.2	4.8	4.9
29	---	---	---	6.6	6.3	6.4	6.8	6.4	6.7	5.3	4.7	5.1
30	---	---	---	6.7	6.4	6.5	6.8	6.0	6.6	6.1	5.3	5.4
31	---	---	---	6.6	6.3	6.4	6.6	6.2	6.4	---	---	---
MONTH	---	---	---	---	---	---	7.0	3.7	6.1	6.4	4.1	5.5

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	13.6	4.4	8.7	12.8	6.8	10.2
2	---	---	---	---	---	---	12.6	4.1	8.4	14.0	7.7	10.7
3	---	---	---	---	---	---	14.2	4.6	9.0	15.7	7.2	11.2
4	---	---	---	---	---	---	14.0	5.7	9.7	15.9	7.3	11.2
5	---	---	---	---	---	---	13.0	5.2	8.9	16.1	7.2	11.3
6	---	---	---	---	---	---	13.7	5.2	9.4	14.0	7.7	10.7
7	---	---	---	---	---	---	14.6	5.5	10.0	12.1	8.7	9.9
8	---	---	---	---	---	---	15.7	7.4	11.4	11.3	7.3	9.1
9	---	---	---	---	---	---	12.3	7.0	9.8	10.7	6.9	8.8
10	---	---	---	---	---	---	15.5	6.6	10.8	12.1	5.5	8.1
11	---	---	---	---	---	---	15.3	8.1	11.5	11.1	4.6	7.9
12	---	---	---	---	---	---	13.5	8.2	10.7	13.0	3.9	8.1
13	---	---	---	---	---	---	14.6	7.3	10.8	12.2	4.3	7.8
14	---	---	---	---	---	---	14.0	7.9	11.1	9.2	4.9	6.4
15	---	---	---	---	---	---	15.4	6.5	10.9	11.3	3.4	7.0
16	---	---	---	---	---	---	11.3	6.6	9.3	13.3	5.3	8.7
17	---	---	---	---	---	---	16.7	8.1	11.9	14.0	4.7	8.1
18	---	---	---	---	---	---	15.4	6.7	11.2	12.1	6.9	8.8
19	---	---	---	---	---	---	12.8	8.4	10.5	12.0	3.8	7.3
20	---	---	---	---	---	---	13.5	7.8	10.6	10.1	3.9	6.9
21	---	---	---	---	---	---	12.2	7.4	10.0	12.2	5.3	7.8
22	---	---	---	11.8	3.7	6.9	13.5	7.2	10.1	10.3	1.7	5.3
23	---	---	---	11.9	2.6	6.7	15.6	6.9	10.9	10.2	1.1	4.9
24	---	---	---	13.4	3.1	7.4	12.7	8.4	10.6	8.1	3.2	5.1
25	---	---	---	14.0	3.2	7.7	13.0	7.8	10.4	10.4	1.1	5.1
26	---	---	---	14.0	3.6	8.0	12.6	7.9	10.3	9.9	2.4	5.2
27	---	---	---	14.4	3.2	8.0	11.9	8.3	10.1	11.4	3.3	6.5
28	---	---	---	15.0	3.9	8.6	12.5	8.0	10.3	8.5	4.5	6.2
29	---	---	---	14.8	4.3	8.9	14.7	7.4	10.9	6.2	2.8	5.1
30	---	---	---	14.3	5.6	9.3	14.2	7.5	10.9	7.8	.3	3.6
31	---	---	---	11.7	5.3	8.3	15.8	7.8	11.4	---	---	---
MONTH	---	---	---	---	---	---	16.7	4.1	10.3	16.1	.3	7.8

08235270 WIGHTMAN FORK BELOW CROPSY CREEK AT SUMMITVILLE, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 21 to Sept. 30, 1995, seasonal only.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 21 to Sept. 30, 1995, seasonal only.
 WATER TEMPERATURE: July 21 to Sept. 30, 1995, seasonal only.
 pH: July 21 to Sept. 30, 1995, seasonal only.

INSTRUMENTATION.--Water -quality monitor with satellite telemetry since July 1995, seasonal only.

REMARKS.--Records for water temperature, specific conductance, and pH are fair. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum during period of seasonal operation, 2930 microsiemens, Aug. 24, 1995; minimum, 600 microsiemens Sept. 30, 1995.
 WATER TEMPERATURE: Maximum during period of seasonal operation, 17.6°C, Aug. 31, and Sept. 3, 1995; minimum, 0.0°C, Sept. 23, 25-26, 30, 1995.
 pH: Maximum during period of seasonal operation, 4.6 units Sept. 7, 1995; minimum, 3.0 units, July 31 and Aug. 19, 1995.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum during period of seasonal operation, 2930 microsiemens, Aug. 24, 1995; minimum, 600 microsiemens Sept. 30.
 WATER TEMPERATURE: Maximum during period of seasonal operation, 17.6°C, Aug. 31, and Sept. 3; minimum, 0.0°C, Sept. 23, 25, 26, and 30.
 pH: Maximum during period of seasonal operation, 4.6 units Sept. 7, 1995; minimum, 3.0 units, July 31 and Aug. 19.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	1450	1270	1360	1700	1460	1560
2	---	---	---	---	---	---	2100	1370	1720	1980	1170	1500
3	---	---	---	---	---	---	2240	1250	1750	1540	1180	1370
4	---	---	---	---	---	---	2080	1310	1730	1690	1480	1580
5	---	---	---	---	---	---	2180	1290	1730	1730	1600	1660
6	---	---	---	---	---	---	2120	1220	1670	1830	1560	1680
7	---	---	---	---	---	---	1420	1220	1320	1880	1110	1510
8	---	---	---	---	---	---	1460	1280	1350	1150	821	1030
9	---	---	---	---	---	---	1870	1260	1590	1320	706	1100
10	---	---	---	---	---	---	2050	1240	1610	1300	912	1130
11	---	---	---	---	---	---	1530	1190	1310	1490	1210	1300
12	---	---	---	---	---	---	1350	914	1170	1700	1450	1560
13	---	---	---	---	---	---	1070	894	993	1720	1470	1660
14	---	---	---	---	---	---	1080	952	1050	1730	1350	1520
15	---	---	---	---	---	---	1380	1080	1200	1580	1340	1440
16	---	---	---	---	---	---	1450	1100	1250	1910	1400	1730
17	---	---	---	---	---	---	1220	1170	1190	2000	1890	1950
18	---	---	---	---	---	---	2260	1190	1650	2010	1690	1820
19	---	---	---	---	---	---	2090	1540	1780	1970	1790	1860
20	---	---	---	---	---	---	1910	1390	1620	2100	1910	2010
21	---	---	---	---	---	---	1540	855	1370	2100	1190	1700
22	---	---	---	1330	1000	1220	1520	1080	1240	1920	1490	1710
23	---	---	---	1350	1070	1220	1440	1220	1330	2480	1200	1740
24	---	---	---	1360	1060	1210	2930	1300	1700	1840	1090	1500
25	---	---	---	1420	1060	1230	1970	1500	1720	1690	919	1380
26	---	---	---	1380	1070	1230	1650	1430	1530	1600	883	1260
27	---	---	---	1530	1140	1370	1920	1210	1510	1600	1020	1420
28	---	---	---	1560	1170	1400	1880	1210	1470	1600	784	1310
29	---	---	---	1560	1160	1360	1650	1340	1540	1190	790	1000
30	---	---	---	1550	1120	1350	2020	1520	1690	1210	600	938
31	---	---	---	1870	1240	1390	2020	1490	1790	---	---	---
MONTH	---	---	---	---	---	---	2930	855	1480	2480	600	1500

08235270 WIGHTMAN FORK BELOW CROPSY CREEK AT SUMMITVILLE, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	3.3	3.2	3.2	3.9	3.7	3.8
2	---	---	---	---	---	---	3.3	3.2	3.3	4.4	3.5	3.8
3	---	---	---	---	---	---	3.4	3.2	3.3	4.2	3.7	3.9
4	---	---	---	---	---	---	3.4	3.2	3.3	3.9	3.7	3.8
5	---	---	---	---	---	---	3.4	3.2	3.3	3.8	3.6	3.7
6	---	---	---	---	---	---	3.4	3.2	3.3	3.7	3.1	3.5
7	---	---	---	---	---	---	3.2	3.1	3.2	4.6	3.2	3.7
8	---	---	---	---	---	---	3.3	3.1	3.2	4.0	3.3	3.7
9	---	---	---	---	---	---	3.4	3.2	3.3	4.0	3.4	3.7
10	---	---	---	---	---	---	3.4	3.1	3.3	3.9	3.6	3.7
11	---	---	---	---	---	---	3.2	3.1	3.2	4.2	3.4	3.7
12	---	---	---	---	---	---	3.3	3.2	3.2	4.2	3.7	3.8
13	---	---	---	---	---	---	3.3	3.2	3.2	3.9	3.4	3.7
14	---	---	---	---	---	---	3.3	3.2	3.2	4.1	3.3	3.6
15	---	---	---	---	---	---	3.2	3.1	3.2	3.9	3.4	3.5
16	---	---	---	---	---	---	3.2	3.1	3.1	3.8	3.4	3.7
17	---	---	---	---	---	---	3.3	3.1	3.2	3.8	3.6	3.7
18	---	---	---	---	---	---	3.5	3.1	3.2	3.9	3.2	3.6
19	---	---	---	---	---	---	3.3	3.0	3.1	4.0	3.5	3.7
20	---	---	---	---	---	---	3.4	3.2	3.3	3.9	3.7	3.8
21	---	---	---	---	---	---	3.8	3.3	3.5	3.9	3.4	3.8
22	---	---	---	3.5	3.3	3.3	3.7	3.4	3.5	4.0	3.8	3.9
23	---	---	---	3.4	3.3	3.3	3.8	3.6	3.6	4.3	3.6	3.9
24	---	---	---	3.4	3.3	3.3	3.6	3.3	3.5	4.0	3.7	3.9
25	---	---	---	3.4	3.3	3.3	4.2	3.5	3.8	4.4	3.7	4.0
26	---	---	---	3.6	3.2	3.3	4.0	3.6	3.8	4.3	3.6	4.0
27	---	---	---	3.5	3.2	3.3	3.9	3.5	3.7	4.2	3.7	4.1
28	---	---	---	3.4	3.2	3.3	4.0	3.6	3.9	4.2	3.6	4.0
29	---	---	---	3.4	3.2	3.3	3.9	3.7	3.8	4.2	3.6	3.9
30	---	---	---	3.4	3.2	3.3	3.9	3.7	3.8	4.2	3.6	4.0
31	---	---	---	3.3	3.0	3.2	3.9	3.8	3.9	---	---	---
MONTH	---	---	---	---	---	---	4.2	3.0	3.4	4.6	3.1	3.8

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	15.9	4.6	9.2	17.3	5.3	10.5
2	---	---	---	---	---	---	14.7	4.4	9.1	15.3	6.2	9.3
3	---	---	---	---	---	---	15.6	5.3	9.7	17.6	5.1	10.5
4	---	---	---	---	---	---	15.8	5.9	10.0	16.6	5.6	10.1
5	---	---	---	---	---	---	13.3	5.5	9.4	16.5	5.1	10.1
6	---	---	---	---	---	---	15.3	5.0	10.0	16.1	5.8	10.0
7	---	---	---	---	---	---	15.9	6.3	10.3	9.7	7.1	8.3
8	---	---	---	---	---	---	17.0	7.3	11.4	11.9	5.9	8.0
9	---	---	---	---	---	---	12.4	7.2	9.6	12.8	5.5	7.8
10	---	---	---	---	---	---	14.3	6.4	10.0	13.8	4.7	7.6
11	---	---	---	---	---	---	16.1	7.6	11.1	13.3	3.2	7.5
12	---	---	---	---	---	---	13.7	7.8	9.9	14.5	2.4	8.1
13	---	---	---	---	---	---	15.8	6.6	10.8	14.9	2.8	7.7
14	---	---	---	---	---	---	14.9	7.6	10.8	9.1	2.6	5.2
15	---	---	---	---	---	---	17.3	5.8	10.7	12.8	1.7	6.7
16	---	---	---	---	---	---	11.1	5.9	8.9	14.6	3.8	8.4
17	---	---	---	---	---	---	16.6	7.0	11.1	14.2	3.2	7.7
18	---	---	---	---	---	---	17.5	6.1	11.0	12.7	4.3	7.5
19	---	---	---	---	---	---	14.2	7.7	10.3	13.1	2.4	7.0
20	---	---	---	---	---	---	12.6	7.3	9.4	12.0	2.9	6.1
21	---	---	---	13.6	---	---	10.1	5.8	7.9	10.7	.2	5.5
22	---	---	---	11.7	3.6	7.0	14.4	5.7	9.6	9.6	.2	4.0
23	---	---	---	12.9	2.3	7.0	16.3	5.7	10.5	9.7	.0	3.8
24	---	---	---	14.0	3.3	7.8	16.4	6.9	10.5	8.7	.5	3.5
25	---	---	---	15.0	3.4	8.4	13.5	6.7	9.6	9.9	.0	3.9
26	---	---	---	15.1	3.6	8.5	15.9	6.4	10.2	8.6	.0	4.0
27	---	---	---	16.2	3.5	8.8	10.4	7.1	8.8	10.3	2.2	5.4
28	---	---	---	16.5	4.0	9.4	15.5	6.2	10.0	7.6	3.5	5.1
29	---	---	---	16.9	4.6	9.6	16.0	6.2	10.6	4.5	.3	2.3
30	---	---	---	16.9	5.6	10.0	15.8	6.1	10.5	6.7	.0	2.5
31	---	---	---	15.1	5.5	9.3	17.6	5.7	10.6	---	---	---
MONTH	---	---	---	---	---	---	17.6	4.4	10.0	17.6	.0	6.8

08235290 WIGHTMAN FORK AT MOUTH NEAR JASPER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 21 to September 30 1995, seasonal only.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 21 to September 30 1995, seasonal only.

WATER TEMPERATURE: July 21 to September 30 1995, seasonal only.

pH: July 21 to September 30 1995, seasonal only.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry since July 1995, seasonal only.

REMARKS.--Records for water temperature, specific conductance, and pH are fair. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1730 microsiemens, Aug. 9, 1995; minimum, 402 microsiemens Aug. 21, 1995.

WATER TEMPERATURE: Maximum, 16.9°C, Aug. 8, 1995; minimum, 0.2°C, Sept. 30, 1995.

pH: Maximum, 4.9 units, Sept. 25,30, 1995; minimum, 3.1 units, Aug. 18-19, 1995.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1730 microsiemens, Aug. 9; minimum, 402 microsiemens Aug. 21.

WATER TEMPERATURE: Maximum, 16.9°C, Aug. 8; minimum, 0.2°C, Sept. 30.

pH: Maximum, 4.9 units, Sept. 25,30; minimum, 3.1 units, Aug. 18-19.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	1060	858	950	1110	927	988
2	---	---	---	---	---	---	1400	969	1130	1260	862	998
3	---	---	---	---	---	---	1590	1100	1340	963	727	826
4	---	---	---	---	---	---	1580	990	1270	1130	956	980
5	---	---	---	---	---	---	1680	1020	1350	1210	1030	1090
6	---	---	---	---	---	---	1720	1080	1380	1260	1020	1140
7	---	---	---	---	---	---	1580	1080	1170	1380	947	1070
8	---	---	---	---	---	---	1500	1090	1200	1220	684	947
9	---	---	---	---	---	---	1730	1190	1330	1020	522	825
10	---	---	---	---	---	---	1630	928	1390	858	485	699
11	---	---	---	---	---	---	1350	1020	1110	954	820	881
12	---	---	---	---	---	---	1280	1010	1140	1080	875	973
13	---	---	---	---	---	---	1070	827	939	1160	928	1060
14	---	---	---	---	---	---	1130	881	1020	1120	784	1020
15	---	---	---	---	---	---	1260	1040	1130	1030	732	897
16	---	---	---	---	---	---	1460	1000	1260	1230	780	1000
17	---	---	---	---	---	---	1260	1100	1200	1230	1100	1180
18	---	---	---	---	---	---	1560	1130	1260	1300	970	1130
19	---	---	---	---	---	---	1560	1010	1240	1210	1010	1070
20	---	---	---	---	---	---	1040	751	867	1230	975	1140
21	---	---	---	---	---	---	893	402	693	1210	773	1070
22	---	---	---	905	745	815	780	558	653	1170	767	921
23	---	---	---	920	697	839	893	691	770	1340	981	1040
24	---	---	---	952	763	850	1400	764	943	1030	806	966
25	---	---	---	981	769	871	1240	920	1040	937	709	834
26	---	---	---	996	786	870	960	724	838	920	671	855
27	---	---	---	1020	776	894	1350	678	890	1040	803	882
28	---	---	---	1050	786	912	1270	690	843	1070	819	1000
29	---	---	---	1060	816	919	1110	696	858	907	602	739
30	---	---	---	1010	805	898	1110	932	1000	879	511	685
31	---	---	---	1350	802	936	1060	922	988	---	---	---
MONTH	---	---	---	---	---	---	1730	402	1070	1380	485	964

08235290 WIGHTMAN FORK AT MOUTH NEAR JASPER, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	3.7	3.5	3.7	4.5	4.4	4.4
2	---	---	---	---	---	---	3.6	3.6	3.6	4.6	4.1	4.5
3	---	---	---	---	---	---	3.7	3.5	3.6	4.6	4.1	4.5
4	---	---	---	---	---	---	3.8	3.5	3.6	4.6	4.5	4.6
5	---	---	---	---	---	---	3.8	3.5	3.6	4.6	4.4	4.5
6	---	---	---	---	---	---	3.7	3.4	3.6	4.5	4.4	4.5
7	---	---	---	---	---	---	3.6	3.4	3.4	4.5	3.8	4.2
8	---	---	---	---	---	---	3.5	3.4	3.4	4.4	3.9	4.2
9	---	---	---	---	---	---	3.7	3.5	3.5	4.5	4.3	4.5
10	---	---	---	---	---	---	3.7	3.5	3.7	4.7	4.4	4.6
11	---	---	---	---	---	---	3.6	3.4	3.5	4.6	4.5	4.6
12	---	---	---	---	---	---	3.6	3.4	3.5	4.6	4.5	4.5
13	---	---	---	---	---	---	3.8	3.5	3.7	4.6	4.4	4.5
14	---	---	---	---	---	---	3.7	3.5	3.5	4.6	4.1	4.4
15	---	---	---	---	---	---	3.5	3.4	3.5	4.5	4.1	4.4
16	---	---	---	---	---	---	3.6	3.3	3.4	4.5	4.4	4.4
17	---	---	---	---	---	---	3.5	3.4	3.4	4.5	4.4	4.5
18	---	---	---	---	---	---	3.6	3.1	3.4	4.5	4.1	4.3
19	---	---	---	---	---	---	3.5	3.1	3.2	4.5	4.4	4.4
20	---	---	---	---	---	---	3.7	3.2	3.5	4.5	4.4	4.5
21	---	---	---	---	---	---	4.4	3.5	4.1	4.7	4.3	4.5
22	---	---	---	4.0	3.8	3.9	4.5	3.8	4.3	4.8	4.6	4.7
23	---	---	---	4.0	3.7	3.8	4.4	3.9	4.3	4.8	4.7	4.8
24	---	---	---	3.9	3.7	3.8	4.4	3.6	4.3	4.8	4.7	4.8
25	---	---	---	3.9	3.7	3.8	4.4	3.7	4.3	4.9	4.7	4.8
26	---	---	---	4.2	3.7	3.8	4.6	4.4	4.5	4.9	4.7	4.8
27	---	---	---	3.8	3.6	3.7	4.6	3.8	4.4	4.8	4.7	4.8
28	---	---	---	3.9	3.6	3.7	4.6	3.7	4.4	4.8	4.6	4.7
29	---	---	---	3.8	3.6	3.7	4.6	4.2	4.5	4.8	4.6	4.7
30	---	---	---	3.7	3.6	3.7	4.5	4.3	4.4	4.9	4.6	4.8
31	---	---	---	3.8	3.4	3.7	4.5	4.2	4.4	---	---	---
MONTH	---	---	---	---	---	---	4.6	3.1	3.8	4.9	3.8	4.5

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	15.9	6.2	10.6	14.3	7.4	10.9
2	---	---	---	---	---	---	14.1	5.8	10.1	14.9	7.9	10.6
3	---	---	---	---	---	---	15.1	6.4	10.5	15.3	7.4	10.9
4	---	---	---	---	---	---	16.3	7.7	11.3	14.4	7.8	10.8
5	---	---	---	---	---	---	13.5	7.2	10.5	14.8	7.4	10.7
6	---	---	---	---	---	---	14.7	6.6	10.7	13.2	7.7	10.3
7	---	---	---	---	---	---	16.2	7.5	11.4	11.2	8.7	9.8
8	---	---	---	---	---	---	16.9	9.3	12.8	11.3	7.2	9.2
9	---	---	---	---	---	---	14.4	9.2	11.6	10.8	7.0	8.7
10	---	---	---	---	---	---	15.9	8.0	11.6	11.5	5.5	7.9
11	---	---	---	---	---	---	16.6	9.7	12.8	10.8	4.7	7.7
12	---	---	---	---	---	---	14.3	10.0	12.0	11.8	4.0	7.7
13	---	---	---	---	---	---	15.9	8.8	12.1	12.2	4.4	7.8
14	---	---	---	---	---	---	14.9	9.5	11.9	8.3	5.1	6.5
15	---	---	---	---	---	---	16.3	7.6	11.7	11.2	3.5	6.9
16	---	---	---	---	---	---	12.1	7.9	10.4	12.1	5.3	8.4
17	---	---	---	---	---	---	16.5	8.9	12.3	10.8	4.7	7.6
18	---	---	---	---	---	---	16.3	7.8	11.8	10.3	6.5	8.1
19	---	---	---	---	---	---	13.3	9.5	11.3	9.7	3.7	6.7
20	---	---	---	---	---	---	14.0	8.3	10.7	10.1	3.8	6.7
21	---	---	---	---	---	---	13.0	7.8	9.5	10.1	4.6	6.8
22	---	---	---	11.9	5.2	8.4	12.6	7.4	9.9	7.9	1.3	4.1
23	---	---	---	13.3	3.7	8.4	14.9	7.5	11.2	8.3	.5	3.9
24	---	---	---	14.6	4.6	9.2	13.5	9.2	11.3	6.6	2.8	4.5
25	---	---	---	15.3	4.8	9.7	13.5	8.4	10.9	8.2	.9	4.2
26	---	---	---	15.6	5.3	10.0	13.3	8.3	10.9	7.6	2.0	4.3
27	---	---	---	15.9	4.8	10.0	12.3	9.0	10.6	9.2	2.9	5.5
28	---	---	---	16.7	5.9	10.9	12.6	8.3	10.6	7.7	4.2	5.7
29	---	---	---	14.3	6.6	10.6	14.3	7.8	11.0	6.3	2.5	4.6
30	---	---	---	14.1	7.9	11.0	14.5	8.0	11.1	7.2	.2	3.1
31	---	---	---	12.9	7.5	10.4	15.9	7.9	11.4	---	---	---
MONTH	---	---	---	---	---	---	16.9	5.8	11.2	15.3	.2	7.4

08235350 ALAMOSA RIVER ABOVE JASPER, CO

LOCATION.--Lat 37°25'03", long 106°29'30", in SE¹/₄SE¹/₄ sec.25, T.37 N., R.4 E., Rio Grande County, Hydrologic Unit 13010002, on left bank 2.0 mi downstream of Wightman Fork and 2.0 mi west of Jasper.

DRAINAGE AREA.--58.1 mi².

PERIOD OF RECORD.--July to September 1995 (seasonal only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,200 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Aug. 17-19, Aug. 30 to Sept. 1, and 13-27. Records fair except those for estimated daily discharges, and discharges above 200 ft³/s, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge during period of seasonal operation, 944 ft³/s, July 16, 1995; gage height, 5.34 ft; minimum daily discharge, 37 ft³/s, Sept. 23, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 944 ft³/s, July 16; gage height, 5.34 ft; minimum discharge, 37 ft³/s, Sept. 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	122	61
2	---	---	---	---	---	---	---	---	---	---	111	55
3	---	---	---	---	---	---	---	---	---	---	105	52
4	---	---	---	---	---	---	---	---	---	---	109	46
5	---	---	---	---	---	---	---	---	---	---	102	44
6	---	---	---	---	---	---	---	---	---	---	94	43
7	---	---	---	---	---	---	---	---	---	---	90	55
8	---	---	---	---	---	---	---	---	---	---	92	77
9	---	---	---	---	---	---	---	---	---	---	92	70
10	---	---	---	---	---	---	---	---	---	---	87	65
11	---	---	---	---	---	---	---	---	---	---	93	53
12	---	---	---	---	---	---	---	---	---	---	112	47
13	---	---	---	---	---	---	---	---	---	---	115	46
14	---	---	---	---	---	---	---	---	---	404	90	53
15	---	---	---	---	---	---	---	---	---	403	77	48
16	---	---	---	---	---	---	---	---	---	567	70	41
17	---	---	---	---	---	---	---	---	---	460	66	39
18	---	---	---	---	---	---	---	---	---	377	64	44
19	---	---	---	---	---	---	---	---	---	350	69	40
20	---	---	---	---	---	---	---	---	---	309	109	38
21	---	---	---	---	---	---	---	---	---	279	90	41
22	---	---	---	---	---	---	---	---	---	259	115	38
23	---	---	---	---	---	---	---	---	---	232	95	37
24	---	---	---	---	---	---	---	---	---	207	116	39
25	---	---	---	---	---	---	---	---	---	193	94	40
26	---	---	---	---	---	---	---	---	---	183	85	39
27	---	---	---	---	---	---	---	---	---	168	83	38
28	---	---	---	---	---	---	---	---	---	156	98	38
29	---	---	---	---	---	---	---	---	---	148	84	56
30	---	---	---	---	---	---	---	---	---	145	70	60
31	---	---	---	---	---	---	---	---	---	137	67	---
TOTAL	---	---	---	---	---	---	---	---	---	---	2866	1443
MEAN	---	---	---	---	---	---	---	---	---	---	92.5	48.1
MAX	---	---	---	---	---	---	---	---	---	---	122	77
MIN	---	---	---	---	---	---	---	---	---	---	64	37
AC-FT	---	---	---	---	---	---	---	---	---	---	5680	2860

08235700 ALAMOSA RIVER BELOW CASTLEMAN GULCH NEAR JASPER, CO

LOCATION.--Lat 37°24'10", long 106°27'00", in SE¹/₄SE¹/₄ sec.32, T.37 N., R.5 E., Rio Grande County, Hydrologic Unit 13010002, on left bank at private bridge, 15 ft downstream from Castleman Gulch, and 1.2 mi southeast of town of Jasper.

DRAINAGE AREA.--76.3 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July to September 1995 (seasonal only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,040 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Aug. 15-17. Records fair except for estimated daily discharges and discharges above 300 ft³/s, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge during period of seasonal operation, 889 ft³/s, July 16, 1995; gage height, 5.12 ft; minimum discharge, 40 ft³/s, Sept. 23, 1995.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	134	68
2	---	---	---	---	---	---	---	---	---	---	123	67
3	---	---	---	---	---	---	---	---	---	---	113	62
4	---	---	---	---	---	---	---	---	---	---	115	56
5	---	---	---	---	---	---	---	---	---	---	110	52
6	---	---	---	---	---	---	---	---	---	---	102	50
7	---	---	---	---	---	---	---	---	---	---	97	65
8	---	---	---	---	---	---	---	---	---	---	98	88
9	---	---	---	---	---	---	---	---	---	---	100	82
10	---	---	---	---	---	---	---	---	---	---	94	81
11	---	---	---	---	---	---	---	---	---	---	100	65
12	---	---	---	---	---	---	---	---	---	---	115	58
13	---	---	---	---	---	---	---	---	---	---	496	52
14	---	---	---	---	---	---	---	---	---	---	414	64
15	---	---	---	---	---	---	---	---	---	---	416	83
16	---	---	---	---	---	---	---	---	---	---	556	75
17	---	---	---	---	---	---	---	---	---	---	482	71
18	---	---	---	---	---	---	---	---	---	---	398	66
19	---	---	---	---	---	---	---	---	---	---	380	72
20	---	---	---	---	---	---	---	---	---	---	337	118
21	---	---	---	---	---	---	---	---	---	---	305	93
22	---	---	---	---	---	---	---	---	---	---	285	124
23	---	---	---	---	---	---	---	---	---	---	257	108
24	---	---	---	---	---	---	---	---	---	---	234	137
25	---	---	---	---	---	---	---	---	---	---	211	113
26	---	---	---	---	---	---	---	---	---	---	199	102
27	---	---	---	---	---	---	---	---	---	---	183	94
28	---	---	---	---	---	---	---	---	---	---	170	103
29	---	---	---	---	---	---	---	---	---	---	163	95
30	---	---	---	---	---	---	---	---	---	---	157	77
31	---	---	---	---	---	---	---	---	---	---	151	73
TOTAL	---	---	---	---	---	---	---	---	---	---	3126	1718
MEAN	---	---	---	---	---	---	---	---	---	---	101	57.3
MAX	---	---	---	---	---	---	---	---	---	---	137	88
MIN	---	---	---	---	---	---	---	---	---	---	66	40
AC-FT	---	---	---	---	---	---	---	---	---	---	6200	3410

08235700 ALAMOSA RIVER BELOW CASTLEMAN GULCH NEAR JASPER, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	5.0	4.6	4.8	4.7	4.5	4.6
2	---	---	---	---	---	---	4.9	4.7	4.8	4.7	4.4	4.6
3	---	---	---	---	---	---	5.0	4.8	4.9	4.8	4.4	4.6
4	---	---	---	---	---	---	4.9	4.7	4.8	4.9	4.6	4.7
5	---	---	---	---	---	---	4.9	4.8	4.8	4.8	4.6	4.7
6	---	---	---	---	---	---	5.0	4.7	4.9	4.9	4.7	4.8
7	---	---	---	---	---	---	5.0	4.5	4.8	4.9	4.6	4.7
8	---	---	---	---	---	---	5.0	4.5	4.6	4.8	4.0	4.3
9	---	---	---	---	---	---	4.9	4.6	4.8	4.6	4.3	4.5
10	---	---	---	---	---	---	5.0	4.3	4.8	4.7	4.4	4.6
11	---	---	---	---	---	---	4.9	3.8	4.6	4.7	4.6	4.6
12	---	---	---	---	---	---	4.8	3.8	4.5	4.7	4.5	4.6
13	---	---	---	5.2	4.7	5.1	4.9	4.3	4.8	4.6	4.5	4.5
14	---	---	---	5.2	5.0	5.1	5.0	4.6	4.9	4.6	4.4	4.5
15	---	---	---	5.2	5.0	5.1	---	---	---	4.6	4.4	4.5
16	---	---	---	5.5	5.0	5.2	---	---	---	4.6	4.4	4.5
17	---	---	---	5.6	5.3	5.4	---	---	---	4.6	4.5	4.5
18	---	---	---	5.3	5.1	5.2	---	---	---	4.5	4.3	4.4
19	---	---	---	5.2	5.1	5.2	---	---	---	4.5	4.4	4.5
20	---	---	---	5.2	4.9	5.1	---	---	---	4.8	4.5	4.6
21	---	---	---	5.1	4.7	5.0	---	---	---	4.8	4.7	4.8
22	---	---	---	5.1	4.7	4.9	---	---	---	5.0	4.7	4.9
23	---	---	---	5.0	4.7	4.9	---	---	---	5.0	4.5	4.9
24	---	---	---	5.0	4.7	4.9	---	---	---	5.0	4.7	4.9
25	---	---	---	5.0	4.7	4.8	5.2	5.0	5.1	5.0	4.8	4.9
26	---	---	---	5.0	4.7	4.8	5.1	5.1	5.1	5.1	4.9	5.0
27	---	---	---	5.0	4.7	4.8	5.1	4.5	5.0	5.0	4.8	4.9
28	---	---	---	5.0	4.8	4.9	5.0	4.7	4.9	5.0	4.9	4.9
29	---	---	---	5.1	4.8	4.9	4.9	4.7	4.9	5.0	4.8	4.9
30	---	---	---	5.0	4.8	4.9	4.9	4.6	4.8	5.1	4.8	5.0
31	---	---	---	5.0	4.8	4.9	4.7	4.5	4.6	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	5.1	4.0	4.7

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	15.6	5.6	10.2	15.5	7.5	11.2
2	---	---	---	---	---	---	13.1	5.2	9.7	15.1	8.2	11.3
3	---	---	---	---	---	---	13.4	5.8	9.9	18.0	7.7	12.3
4	---	---	---	---	---	---	14.0	7.0	10.7	15.5	7.8	11.9
5	---	---	---	---	---	---	12.2	6.5	9.8	17.5	7.5	12.1
6	---	---	---	---	---	---	12.3	6.0	9.7	15.3	8.0	11.4
7	---	---	---	---	---	---	14.0	6.2	10.1	11.8	9.1	10.4
8	---	---	---	---	---	---	16.3	7.7	11.8	13.4	7.8	10.0
9	---	---	---	---	---	---	13.1	7.6	10.4	11.3	7.4	9.4
10	---	---	---	---	---	---	14.7	6.6	10.6	12.8	6.1	8.9
11	---	---	---	---	---	---	16.8	8.6	12.0	13.7	5.2	9.0
12	---	---	---	---	---	---	13.3	9.4	11.5	14.6	4.4	9.2
13	---	---	---	8.6	4.3	6.5	14.8	8.4	11.6	13.9	4.8	8.9
14	---	---	---	10.6	4.7	7.4	12.9	9.0	10.8	9.7	5.6	7.3
15	---	---	---	11.5	4.5	8.0	---	---	---	12.4	4.0	8.0
16	---	---	---	10.8	5.5	7.6	---	---	---	14.7	5.8	9.8
17	---	---	---	9.1	5.3	6.8	---	---	---	14.6	5.2	9.3
18	---	---	---	12.3	5.3	8.4	---	---	---	13.2	7.3	9.6
19	---	---	---	10.3	5.8	8.0	14.2	9.6	11.6	11.6	4.5	8.2
20	---	---	---	11.0	4.5	7.7	13.9	8.2	11.1	11.1	4.3	7.8
21	---	---	---	13.3	4.5	8.6	13.5	8.3	10.5	13.1	6.1	8.8
22	---	---	---	11.6	4.4	8.0	13.1	7.9	10.7	11.1	2.3	6.5
23	---	---	---	12.4	3.3	7.9	15.6	7.6	11.5	10.9	1.5	6.2
24	---	---	---	14.1	4.0	8.9	14.3	9.0	11.5	9.0	4.0	6.2
25	---	---	---	14.4	4.1	9.3	14.1	8.3	11.2	11.1	2.0	6.4
26	---	---	---	14.8	4.5	9.6	13.3	8.4	10.9	9.9	3.2	6.4
27	---	---	---	15.1	4.1	9.6	13.2	9.1	10.8	11.5	3.5	7.1
28	---	---	---	15.7	5.0	10.1	13.3	8.6	11.0	9.2	5.0	6.8
29	---	---	---	13.6	5.6	9.8	15.5	8.0	11.7	8.1	4.0	6.2
30	---	---	---	13.3	6.8	10.2	15.3	8.3	11.7	9.1	1.0	4.8
31	---	---	---	12.2	6.6	9.6	17.4	8.3	12.5	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	18.0	1.0	8.7

082360000 ALAMOSA RIVER ABOVE TERRACE RESERVOIR, CO--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
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	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	158	126	146	250	200	229	267	245	256
2	165	136	149	167	144	156	---	---	---	268	250	258
3	159	133	145	179	137	152	291	---	---	311	247	269
4	153	125	139	170	143	156	309	228	259	271	245	259
5	153	129	138	170	159	166	322	236	277	285	271	279
6	137	120	129	159	140	149	342	248	288	300	283	292
7	145	128	135	147	134	140	342	250	291	319	274	294
8	142	130	139	145	130	139	270	244	254	306	273	296
9	142	117	127	130	120	126	286	252	269	335	306	321
10	158	124	147	141	118	133	387	280	339	347	334	342
11	155	130	147	145	134	139	362	253	281	358	347	352
12	141	123	133	141	127	136	294	266	277	364	356	360
13	128	115	122	137	124	128	274	241	255	372	361	367
14	129	113	118	164	134	151	261	248	253	377	371	374
15	128	109	117	156	126	143	271	255	261	380	370	375
16	136	108	122	140	112	123	283	264	273	380	371	376
17	139	128	133	147	110	125	290	278	284	385	376	381
18	150	128	137	170	147	160	297	285	291	389	381	386
19	150	124	134	156	145	151	310	271	290	394	384	389
20	128	82	94	173	153	162	336	280	302	397	387	393
21	131	108	119	172	159	165	308	263	285	399	391	396
22	136	110	122	171	157	165	307	235	252	402	317	360
23	139	113	125	179	158	167	246	220	229	375	331	353
24	144	119	130	184	165	172	237	211	224	387	322	350
25	144	122	132	185	165	173	236	221	227	374	319	342
26	150	126	137	191	167	177	238	229	232	351	296	327
27	144	128	136	203	167	182	238	227	232	337	316	329
28	160	138	147	207	183	195	298	233	262	354	331	343
29	149	124	140	212	184	198	256	222	232	374	281	332
30	155	136	144	212	181	198	246	229	238	320	278	297
31	---	---	---	212	182	193	255	246	251	---	---	---
MONTH	---	---	---	212	110	157	---	---	---	402	245	335

082360000 ALAMOSA RIVER ABOVE TERRACE RESERVOIR, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.2	5.5	5.9	5.4	4.9	5.2	6.2	6.0	6.1
2	6.9	6.6	6.7	6.0	5.6	5.9	---	---	---	6.2	6.0	6.1
3	6.8	6.4	6.7	6.1	5.5	5.9	5.3	---	---	6.2	5.5	5.9
4	6.8	6.4	6.7	6.1	5.6	5.9	5.2	4.9	5.1	6.1	6.0	6.0
5	6.8	6.1	6.7	5.9	5.5	5.8	5.2	5.0	5.1	6.1	5.9	6.0
6	6.7	6.2	6.5	6.0	5.5	5.7	5.2	4.9	5.0	6.1	5.8	5.9
7	6.7	6.4	6.6	6.2	5.5	6.0	5.1	5.0	5.0	5.9	5.3	5.6
8	6.7	6.4	6.6	6.3	5.8	6.1	5.0	4.9	5.0	5.8	4.6	5.4
9	6.7	6.5	6.6	6.1	5.8	6.0	5.0	4.9	5.0	6.2	5.0	5.7
10	6.6	6.3	6.5	6.2	5.8	6.0	5.0	4.8	5.0	6.1	5.3	5.6
11	6.6	6.1	6.4	6.3	5.9	6.1	5.0	4.8	4.9	5.8	5.7	5.7
12	6.5	6.0	6.3	6.3	5.9	6.1	4.9	4.5	4.7	5.7	5.6	5.7
13	6.5	5.8	6.3	6.3	5.9	6.1	4.9	4.6	4.8	5.7	5.6	5.7
14	6.4	5.8	6.2	6.0	5.8	5.9	4.9	4.8	4.9	5.7	5.6	5.6
15	6.4	5.9	6.2	6.0	5.7	5.8	4.9	4.8	4.9	5.6	5.5	5.6
16	6.3	6.0	6.2	5.7	5.2	5.5	4.9	4.8	4.9	5.6	5.5	5.5
17	6.2	5.8	6.1	6.2	5.3	6.0	4.8	4.7	4.8	5.5	5.5	5.5
18	6.3	5.8	6.1	6.0	5.5	5.8	4.9	4.7	4.8	5.5	5.4	5.5
19	6.3	5.6	6.0	5.8	5.4	5.6	5.1	4.9	5.0	5.5	5.4	5.5
20	6.3	5.7	6.1	5.9	5.5	5.7	5.0	4.4	4.7	5.5	5.4	5.5
21	6.4	5.8	6.2	5.8	5.5	5.7	5.4	4.8	5.0	5.5	5.4	5.5
22	6.5	5.9	6.3	5.7	5.4	5.6	5.3	4.8	5.1	6.2	5.4	5.6
23	6.5	6.0	6.3	5.9	5.3	5.5	5.4	5.1	5.2	6.3	5.9	6.1
24	6.5	6.0	6.3	5.7	5.2	5.4	5.8	5.4	5.5	6.2	5.9	6.1
25	6.4	5.8	6.2	5.7	5.2	5.4	6.0	5.7	5.9	6.2	5.5	5.7
26	6.3	5.7	6.1	5.7	5.2	5.4	6.1	5.9	6.0	6.2	5.9	6.0
27	6.1	5.5	5.9	5.5	5.1	5.3	6.3	6.0	6.1	6.2	5.5	5.8
28	6.1	5.5	5.9	5.7	5.1	5.3	6.2	5.4	5.8	5.9	5.8	5.9
29	6.1	5.5	5.8	5.6	5.1	5.3	6.2	5.6	5.9	5.8	5.4	5.6
30	6.1	5.7	5.9	5.5	5.1	5.3	6.0	5.9	5.9	6.0	5.4	5.7
31	---	---	---	5.5	5.2	5.3	6.1	5.8	5.9	---	---	---
MONTH	---	---	---	6.3	5.1	5.7	---	---	---	6.3	4.6	5.7

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.4	17.1	18.2	10.8	8.2	9.5	2.2	.2	1.0	.6	.0	.3
2	19.0	16.2	17.5	10.8	9.0	9.8	2.6	.5	1.4	.5	.1	.2
3	18.7	15.9	17.2	10.0	8.8	9.3	2.5	.6	1.5	.3	.0	.1
4	18.6	16.4	17.5	9.1	7.6	8.4	2.8	1.1	1.9	.3	.0	.2
5	18.5	16.6	17.5	8.9	6.3	7.6	2.5	1.9	2.2	.4	.1	.2
6	17.3	14.8	16.0	9.6	6.9	8.2	2.8	2.1	2.4	.8	.1	.3
7	15.3	13.5	14.4	10.7	8.1	9.3	3.3	1.2	2.2	.7	.0	.3
8	14.5	12.9	13.6	9.6	8.2	9.0	2.3	1.1	1.8	1.2	.0	.5
9	14.5	11.4	13.0	9.6	7.5	8.4	1.1	.1	.5	1.3	.0	.6
10	15.0	11.6	13.2	9.5	7.1	8.3	.6	.1	.3	1.7	.1	.8
11	15.4	11.9	13.6	9.6	7.5	8.6	.9	.1	.3	2.4	.2	1.2
12	15.1	12.1	13.6	10.9	9.2	9.8	.6	.0	.3	2.4	1.2	1.7
13	15.0	12.0	13.5	9.8	7.9	8.9	1.4	.0	.6	2.4	.4	1.3
14	13.3	11.5	12.3	7.9	6.5	7.0	1.5	.1	.6	2.4	.2	1.2
15	13.4	10.9	12.0	7.1	5.1	6.1	.8	.0	.4	3.7	1.0	2.2
16	13.7	10.8	12.2	6.4	4.5	5.5	.7	.0	.3	3.7	2.3	2.9
17	13.6	11.6	12.4	6.5	4.4	5.7	1.1	.0	.4	2.3	.8	1.5
18	12.4	10.0	11.3	5.3	3.1	4.2	1.2	.0	.5	1.3	.1	.6
19	12.1	9.7	10.9	4.7	3.0	3.9	1.5	.0	.5	.8	.1	.4
20	12.1	9.4	10.8	3.6	.8	1.8	.7	.0	.3	.9	.0	.4
21	12.3	9.8	11.0	3.3	1.0	2.0	.7	.0	.3	1.7	.2	.8
22	12.2	9.7	10.9	2.9	1.9	2.4	.9	.0	.3	1.8	.1	.9
23	12.4	9.6	10.9	2.4	.5	1.4	1.1	.0	.5	.9	.0	.4
24	11.4	9.9	10.7	2.1	.2	1.0	3.0	.8	1.8	1.2	.0	.6
25	11.4	9.0	10.2	1.6	.3	.9	2.9	1.2	2.0	2.3	.1	1.1
26	11.6	8.9	10.2	3.2	.9	1.9	2.9	1.1	1.9	3.4	1.5	2.3
27	11.6	9.1	10.3	2.8	1.0	1.9	2.6	.9	1.7	3.5	2.1	2.9
28	12.0	9.6	10.7	1.8	.1	.9	2.6	.7	1.6	3.2	2.6	2.9
29	11.4	9.5	10.4	.7	.0	.3	2.7	.9	1.8	2.7	1.6	2.3
30	10.4	8.5	9.5	1.2	.1	.5	2.5	1.9	2.2	3.0	.4	1.6
31	10.4	8.3	9.3	---	---	---	1.9	.4	1.1	3.7	.8	2.2
MONTH	19.4	8.3	12.7	10.9	.0	5.4	3.3	.0	1.1	3.7	.0	1.1

08236500 ALAMOSA RIVER BELOW TERRACE RESERVOIR, CO

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June to September 1995, seasonal only.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June to September 1995, seasonal only.

WATER TEMPERATURE: June to September 1995, seasonal only.

pH: June to September 1995, seasonal only.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry since June 1995, seasonal only.

REMARKS.--Records for water temperature and specific conductance are good, pH record is fair. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum for period June to September, 268 microsiemens, Sept. 30; minimum, 125 microsiemens, June 22.

WATER TEMPERATURE: Maximum for period June to September, 15.7°C, Sept. 1; minimum, 6.0°C, June 7, 19.

pH: Maximum for period June to September, 6.8 units, June 20-25; minimum, 4.7 units, Aug. 21-22.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	135	133	134	162	157	160	215	212	214
2	---	---	---	135	133	134	165	161	163	216	214	215
3	---	---	---	138	134	136	165	162	164	220	215	217
4	---	---	---	141	137	139	168	164	166	222	218	220
5	---	---	---	142	140	140	173	168	170	222	219	220
6	---	---	---	142	139	140	178	172	175	223	219	221
7	169	156	164	142	139	140	184	177	180	227	218	221
8	172	160	166	140	138	139	192	183	187	235	227	232
9	177	157	168	141	138	139	199	189	194	239	230	235
10	164	154	158	141	139	140	205	196	201	238	229	234
11	164	154	160	142	140	141	207	203	205	234	228	230
12	167	159	163	142	140	141	210	207	208	230	227	228
13	165	151	159	142	140	141	214	210	212	231	228	229
14	155	138	148	142	140	140	217	213	216	232	230	231
15	146	132	140	141	140	140	219	214	217	239	231	237
16	140	133	136	141	139	140	220	216	219	237	235	236
17	139	134	137	143	140	141	220	217	218	236	233	235
18	142	134	138	145	141	143	221	216	218	238	233	236
19	136	133	135	145	142	143	219	215	217	252	235	240
20	136	130	133	150	143	145	219	217	218	252	249	251
21	135	127	130	152	144	148	229	218	224	249	245	246
22	129	125	127	152	146	149	230	225	228	252	245	248
23	129	126	127	151	149	150	227	220	224	255	251	252
24	130	126	128	155	150	153	220	214	216	256	249	252
25	131	128	130	155	153	154	225	213	221	257	252	254
26	132	129	131	155	153	154	222	216	218	256	252	253
27	133	130	132	156	153	154	218	216	217	260	255	257
28	135	132	133	156	153	155	219	215	216	261	257	259
29	134	132	133	157	154	155	221	217	219	263	257	260
30	135	133	134	159	154	157	219	216	218	268	259	264
31	---	---	---	159	157	158	218	212	215	---	---	---
MONTH	---	---	---	159	133	145	230	157	204	268	212	238

08236500 ALAMOSA RIVER BELOW TERRACE RESERVOIR, CO--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.6	6.3	6.4	5.7	5.7	5.7	5.2	5.1	5.2
2	---	---	---	6.4	6.1	6.2	5.7	5.7	5.7	5.2	5.1	5.1
3	---	---	---	6.1	6.0	6.1	6.0	5.7	5.8	5.2	5.2	5.2
4	---	---	---	6.0	5.9	6.0	6.0	5.9	5.9	5.3	5.2	5.2
5	---	---	---	6.0	5.9	5.9	5.9	5.8	5.9	5.2	5.2	5.2
6	---	---	---	6.0	5.9	5.9	5.8	5.7	5.8	5.2	5.2	5.2
7	6.4	6.2	6.3	6.0	5.9	5.9	5.7	5.6	5.7	5.3	5.2	5.3
8	6.4	6.3	6.4	5.9	5.9	5.9	5.6	5.6	5.6	5.4	5.3	5.3
9	6.6	6.4	6.5	6.0	5.9	5.9	5.6	5.5	5.5	5.3	5.1	5.2
10	6.5	6.4	6.5	5.9	5.8	5.8	5.5	5.4	5.5	5.2	5.1	5.1
11	6.6	6.5	6.6	5.9	5.8	5.8	5.5	5.4	5.4	5.4	5.2	5.3
12	6.6	6.5	6.6	5.9	5.8	5.8	5.4	5.4	5.4	5.4	5.4	5.4
13	6.7	6.5	6.6	5.9	5.8	5.8	5.4	5.3	5.4	5.7	5.4	5.5
14	6.6	6.4	6.5	---	---	---	5.3	5.2	5.2	5.7	5.7	5.7
15	6.6	6.4	6.5	---	---	---	5.2	5.1	5.1	5.7	5.5	5.7
16	6.7	6.5	6.6	---	---	---	5.1	5.0	5.0	5.6	5.6	5.6
17	6.7	6.7	6.7	---	---	---	5.0	4.9	5.0	5.6	5.6	5.6
18	6.7	6.7	6.7	---	---	---	4.9	4.9	4.9	5.7	5.6	5.7
19	6.7	6.7	6.7	---	---	---	4.9	4.9	4.9	5.7	5.5	5.6
20	6.8	6.7	6.7	---	---	---	4.9	4.8	4.8	5.6	5.5	5.6
21	6.8	6.7	6.8	5.9	5.9	5.9	4.8	4.7	4.8	5.7	5.6	5.7
22	6.8	6.7	6.7	5.9	5.9	5.9	4.8	4.7	4.8	5.8	5.7	5.8
23	6.8	6.7	6.8	5.9	5.9	5.9	4.9	4.8	4.9	5.8	5.6	5.7
24	6.8	6.8	6.8	5.9	5.9	5.9	5.0	4.8	4.9	5.7	5.6	5.7
25	6.8	6.7	6.7	5.9	5.8	5.9	5.2	4.8	5.0	5.7	5.6	5.6
26	6.7	6.6	6.7	5.9	5.8	5.8	5.1	4.9	5.0	5.6	5.5	5.6
27	6.7	6.6	6.6	5.8	5.8	5.8	5.1	4.9	4.9	5.6	5.5	5.6
28	6.6	6.5	6.5	5.8	5.8	5.8	5.0	4.8	4.9	5.6	5.5	5.5
29	6.5	6.4	6.4	5.8	5.8	5.8	5.2	5.0	5.1	5.5	5.5	5.5
30	6.5	6.3	6.4	5.8	5.8	5.8	5.2	5.1	5.2	5.5	5.3	5.4
31	---	---	---	5.8	5.7	5.8	5.2	5.1	5.1	---	---	---
MONTH	---	---	---	---	---	---	6.0	4.7	5.3	5.8	5.1	5.5

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.7	7.3	7.5	11.7	10.7	11.1	15.7	13.9	14.6
2	---	---	---	7.7	7.3	7.5	11.8	10.8	11.2	15.5	14.1	14.5
3	---	---	---	7.6	7.4	7.4	12.0	11.0	11.4	15.6	14.0	14.5
4	---	---	---	7.7	7.3	7.4	12.2	11.2	11.6	15.5	14.0	14.5
5	---	---	---	7.6	7.2	7.4	12.2	11.4	11.8	15.6	14.0	14.5
6	---	---	---	7.9	7.3	7.5	12.7	11.6	12.0	15.4	14.0	14.4
7	6.5	6.0	6.3	8.0	7.5	7.6	13.0	11.9	12.3	14.8	14.2	14.4
8	6.7	6.2	6.4	8.1	7.6	7.8	13.0	12.2	12.5	15.0	14.0	14.3
9	7.3	6.2	6.8	8.3	7.7	7.9	13.1	12.3	12.6	14.7	13.7	14.0
10	6.9	6.1	6.5	8.4	7.9	8.1	13.5	12.4	12.8	14.5	13.1	13.7
11	6.9	6.3	6.6	8.7	8.0	8.3	13.7	12.7	13.0	14.1	12.8	13.2
12	7.1	6.6	6.8	8.9	8.2	8.5	13.7	12.9	13.1	14.1	12.7	13.2
13	7.1	6.6	6.8	9.1	8.5	8.7	13.9	13.0	13.3	14.3	12.7	13.2
14	7.1	6.4	6.7	9.1	8.7	9.0	13.9	13.1	13.4	13.7	12.6	13.0
15	7.0	6.3	6.7	9.7	8.9	9.2	14.2	13.1	13.6	13.9	12.1	12.8
16	7.0	6.5	6.8	9.8	9.2	9.4	14.3	13.3	13.7	13.5	11.9	12.4
17	7.0	6.5	6.7	9.8	9.4	9.6	14.6	13.6	13.9	13.8	12.0	12.6
18	7.2	6.1	6.8	10.1	9.6	9.8	14.8	13.5	14.0	13.4	12.2	12.6
19	6.4	6.0	6.3	10.3	9.7	9.9	14.9	13.8	14.1	13.5	12.0	12.5
20	6.8	6.3	6.5	10.4	9.8	10.0	14.8	13.8	14.2	13.4	11.7	12.3
21	7.3	6.3	6.6	10.6	9.8	10.1	15.2	14.1	14.4	12.6	11.6	12.0
22	6.8	6.4	6.6	10.6	9.8	10.1	15.3	14.1	14.5	12.8	11.0	11.7
23	6.8	6.5	6.7	10.7	9.8	10.1	14.9	13.9	14.3	12.7	10.8	11.5
24	7.1	6.5	6.9	10.9	9.9	10.3	14.9	13.9	14.2	12.5	10.9	11.3
25	7.3	6.8	7.0	10.9	9.9	10.3	15.2	14.1	14.5	12.1	10.5	11.1
26	7.3	7.0	7.2	11.0	10.1	10.4	15.1	14.0	14.4	11.9	10.4	10.9
27	7.5	7.1	7.2	11.0	10.0	10.5	15.0	14.2	14.5	12.0	10.4	10.9
28	7.5	7.1	7.3	11.1	10.2	10.6	15.1	14.2	14.5	11.4	10.5	10.8
29	7.5	7.2	7.3	11.3	10.3	10.6	15.2	14.1	14.5	11.5	10.3	10.7
30	7.6	7.3	7.4	11.3	10.4	10.8	15.3	14.1	14.4	11.5	9.7	10.4
31	---	---	---	11.3	10.6	10.9	15.6	14.1	14.5	---	---	---
MONTH	---	---	---	11.3	7.2	9.1	15.6	10.7	13.4	15.7	9.7	12.7

08240000 RIO GRANDE ABOVE MOUTH OF TRINCHERA CREEK, NEAR LASAUSES, CO

LOCATION.--Lat 37°18'58", long 105°44'32", in sec.35, T.36 N., R.11 E., Conejos County, Hydrologic Unit 13010002, on right bank 0.2 mi upstream from Trinchera Creek, 3.2 mi north of Lasauses, and 13 mi southeast of Alamosa.

DRAINAGE AREA.--5,740 mi², approximately, includes 2,940 mi² in closed basin in northern part of San Luis Valley, CO.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1936 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,500 ft above sea level, estimated from nearby level lines.

REMARKS.--Estimated daily discharges: Nov. 18, Nov. 28 to Jan. 31. Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Due to changes over the years, most of the flow from Trinchera Creek enters the Rio Grande above the station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	79	340	295	326	400	233	150	332	2400	229	116
2	32	93	345	280	308	398	237	152	280	2620	213	102
3	35	98	380	280	315	399	251	179	254	2980	196	101
4	63	119	380	280	314	400	255	178	264	3620	180	98
5	78	118	350	305	329	391	207	176	363	3950	177	93
6	71	114	435	285	317	395	165	182	358	3850	165	90
7	71	112	440	320	314	383	137	179	395	3570	160	85
8	66	104	370	285	340	312	128	180	568	3160	154	85
9	62	102	280	285	332	261	131	174	373	2860	146	84
10	59	102	320	315	332	228	142	157	528	2700	147	80
11	56	105	315	285	327	213	154	146	600	2560	144	80
12	60	108	325	270	336	207	149	133	413	2370	136	82
13	66	110	315	285	319	207	141	124	489	2110	128	93
14	74	107	305	315	359	196	136	122	600	1730	128	94
15	82	105	305	285	355	170	142	125	542	1300	124	88
16	83	107	315	255	342	151	148	130	613	941	114	84
17	90	112	325	250	342	146	145	173	872	769	109	78
18	102	127	325	260	331	141	141	250	1070	760	102	77
19	111	151	325	260	330	135	135	236	1340	763	96	81
20	110	180	325	290	347	133	138	219	1760	750	92	81
21	101	182	315	255	358	126	136	216	2200	738	91	89
22	86	191	325	240	374	126	142	232	2000	580	89	95
23	96	209	325	260	394	128	146	273	1870	505	91	91
24	96	226	310	280	392	132	144	343	1870	461	92	91
25	96	226	330	305	393	137	142	401	1890	427	123	93
26	95	223	315	285	391	131	147	300	2090	373	125	95
27	91	238	310	280	397	127	145	266	2200	326	124	93
28	87	295	320	275	402	128	138	250	2180	313	123	93
29	85	255	330	250	---	166	132	246	2130	275	122	98
30	81	315	320	290	---	216	139	282	2240	242	121	100
31	80	---	285	310	---	214	---	305	---	229	124	---
TOTAL	2397	4613	10305	8715	9716	6897	4726	6479	32684	50232	4165	2710
MEAN	77.3	154	332	281	347	222	158	209	1089	1620	134	90.3
MAX	111	315	440	320	402	400	255	401	2240	3950	229	116
MIN	32	79	280	240	308	126	128	122	254	229	89	77
AC-FT	4750	9150	20440	17290	19270	13680	9370	12850	64830	99640	8260	5380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1995, BY WATER YEAR (WY)

MEAN	134	231	222	197	231	304	294	460	669	260	105	95.1
MAX	1113	1017	687	351	421	697	1497	3407	2746	1620	561	566
(WY)	1942	1942	1942	1987	1986	1987	1987	1987	1948	1995	1957	1970
MIN	7.45	30.1	36.4	36.5	62.3	38.2	28.0	7.39	4.41	1.42	1.68	.85
(WY)	1957	1964	1957	1957	1957	1957	1957	1963	1964	1940	1940	1956

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1936 - 1995

ANNUAL TOTAL	71054	143639	
ANNUAL MEAN	195	394	268
HIGHEST ANNUAL MEAN			950
LOWEST ANNUAL MEAN			49.0
HIGHEST DAILY MEAN	781	3950	5380
LOWEST DAILY MEAN	11	^a 32	.40
ANNUAL SEVEN-DAY MINIMUM	20	55	.69
INSTANTANEOUS PEAK FLOW		3960	^b 5470
INSTANTANEOUS PEAK STAGE		8.83	9.50
ANNUAL RUNOFF (AC-FT)	140900	284900	194300
10 PERCENT EXCEEDS	388	605	498
50 PERCENT EXCEEDS	161	226	165
90 PERCENT EXCEEDS	37	90	24

a-Also occurred Oct 2.

b-From rating curve extended above 3600 ft³/s.

08240000 RIO GRANDE ABOVE MOUTH OF TRINCHERA CREEK, NEAR LASAUSES--Continued
(Rio Grande National Water-Quality Assessment Program Station)

WATER-QUALITY RECORDS

PERIOD OF RECORDS.--May 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
OCT												
20...	0830	110	380	8.0	1.5	5.0	582	8.4	86	100	31	6.6
NOV												
21...	0915	180	316	7.3	-6.0	0.5	580	9.0	82	96	29	5.8
DEC												
20...	0830	e325	256	7.6	-9.0	0.0	585	11.0	98	81	25	4.6
JAN												
11...	1345	e285	246	8.2	7.0	0.0	574	10.8	99	74	23	4.0
FEB												
08...	0945	325	251	7.7	1.0	0.0	580	10.8	97	79	24	4.6
MAR												
21...	1400	125	524	8.4	17.0	13.0	574	8.0	101	170	53	10
APR												
11...	1430	160	456	8.4	8.5	10.0	572	8.7	103	130	40	8.2
MAY												
09...	1530	176	553	8.4	16.0	15.0	575	7.7	102	190	56	12
JUN												
14...	1230	595	421	7.9	23.5	20.5	582	7.0	103	140	41	8.6
JUL												
19...	1445	748	587	7.9	24.5	21.0	583	6.2	92	170	50	11
AUG												
15...	1615	120	658	8.3	18.0	26.5	579	6.5	108	190	55	12

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- ^A BONATE WATER DIS IT FIELD MG/L AS HCO3	CAR- ^B BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA- ^C LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT												
20...	38	43	2	5.3	159	0	130	45	12	0.70	24	248
NOV												
21...	24	34	1	4.1	118	0	96	41	9.2	0.40	29	211
DEC												
20...	19	33	0.9	3.4	106	0	87	30	7.2	0.30	30	186
JAN												
11...	18	33	0.9	3.3	103	0	85	26	6.0	0.30	28	177
FEB												
08...	20	34	1	3.5	109	0	89	27	7.9	0.30	28	179
MAR												
21...	40	32	1	6.5	179	3	152	99	12	0.70	27	360
APR												
11...	42	39	2	5.3	173	3	146	68	13	0.70	26	302
MAY												
09...	51	36	2	6.9	179	0	146	140	13	0.80	20	350
JUN												
14...	31	32	1	4.9	112	0	92	97	8.5	0.40	22	294
JUL												
19...	53	39	2	7.0	167	0	137	130	15	0.50	21	403
AUG												
15...	67	42	2	9.5	223	0	183	130	16	0.70	27	443

A-Field dissolved bicarbonate, determined by incremental titration method.
 B-Field dissolved carbonate, determined by incremental titration method.
 C-Field total dissolved alkalinity, determined by incremental titration method.
 e-estimated.

08240000 RIO GRANDE ABOVE MOUTH OF TRINCHERA CREEK, NEAR LASAUSES--Continued
(Rio Grande National Water-Quality Assessment Program Station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS-SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)
OCT 20...	241	0.34	0.010	--	<0.050	<0.015	0.40	0.20	0.090	0.050	--
NOV 21...	202	0.29	<0.010	0.300	0.300	0.060	0.50	0.20	0.140	0.050	--
DEC 20...	173	0.25	0.010	0.280	0.280	0.120	0.30	0.30	0.060	0.070	--
JAN 11...	161	0.24	<0.010	0.270	0.270	0.050	0.20	<0.20	0.050	0.030	--
FEB 08...	170	0.24	<0.010	0.210	0.210	0.030	0.20	<0.20	0.100	0.040	--
MAR 21...	340	0.49	<0.010	0.220	0.220	<0.015	0.50	0.20	0.060	0.030	--
APR 11...	292	0.41	<0.010	0.100	0.100	<0.015	0.70	0.30	0.160	0.040	--
MAY 09...	388	0.48	<0.010	--	<0.050	<0.015	0.60	0.30	0.160	0.040	1400
JUN 14...	269	0.40	<0.010	--	<0.050	<0.015	1.2	0.50	0.460	0.080	--
JUL 19...	370	0.55	<0.010	0.060	0.060	0.020	0.80	0.60	0.180	0.110	--
AUG 15...	428	0.60	<0.010	--	<0.050	0.030	1.0	0.50	0.190	0.100	--

DATE	ALUM- INUM, DIS-SOLVED (UG/L AS AL)	ANTI- MONY, TOTAL (UG/L AS SB)	ANTI- MONY, DIS-SOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS-SOLVED (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)
OCT 20...	--	--	--	--	--	--	--	--	--	--	--
NOV 21...	--	--	--	--	--	--	--	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--	--
JAN 11...	--	--	--	--	--	--	--	--	--	--	--
FEB 08...	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	--	--	--	--	--	--	--	--	--	--	--
APR 11...	--	--	--	--	--	--	--	--	--	--	--
MAY 09...	--	<1	--	3	<100	--	<10	--	120	--	<1
JUN 14...	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--	--	--
AUG 15...	20	--	<1	--	--	40	--	<1	--	120	--

08240000 RIO GRANDE ABOVE MOUTH OF TRINCHERA CREEK, NEAR LASAUSES--Continued
 (Rio Grande National Water-Quality Assessment Program Station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 20...	--	--	--	--	--	--	--	--	87	--	--
NOV 21...	--	--	--	--	--	--	--	--	87	--	--
DEC 20...	--	--	--	--	--	--	--	--	75	--	--
JAN 11...	--	--	--	--	--	--	--	--	44	--	--
FEB 08...	--	--	--	--	--	--	--	--	40	--	--
MAR 21...	--	--	--	--	--	--	--	--	49	--	--
APR 11...	--	--	--	--	--	--	--	--	70	--	--
MAY 09...	--	1	--	<1	--	3	--	2200	84	2	--
JUN 14...	--	--	--	--	--	--	--	--	120	--	--
JUL 19...	--	--	--	--	--	--	--	--	100	--	--
AUG 15...	<1	--	1	--	<1	--	2	--	46	--	<1

DATE	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 20...	--	--	--	150	--	--	--	--	35	10	--
NOV 21...	--	--	--	140	--	--	--	--	42	20	--
DEC 20...	--	--	--	37	--	--	--	--	28	e25	--
JAN 11...	--	--	--	22	--	--	--	--	28	e22	--
FEB 08...	--	--	--	24	--	--	--	--	58	51	--
MAR 21...	--	--	--	92	--	--	--	--	47	16	--
APR 11...	--	--	--	90	--	--	--	--	62	27	--
MAY 09...	<10	--	270	120	<0.10	--	4	--	77	37	1
JUN 14...	--	--	--	300	--	--	--	--	446	716	--
JUL 19...	--	--	--	100	--	--	--	--	53	107	--
AUG 15...	--	<4	--	98	--	<0.1	--	5	52	17	--

08240000 RIO GRANDE ABOVE MOUTH OF TRINCHERA CREEK, NEAR LASAUSES--Continued
(Rio Grande National Water-Quality Assessment Program Station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	--	--	--	--	--	--	--	--	--	--	--
NOV 21...	--	--	--	--	--	--	--	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--	--
JAN 11...	--	--	--	--	--	--	--	--	--	--	--
FEB 08...	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	--	--	--	--	--	--	--	--	--	--	--
APR 11...	--	--	--	--	--	--	--	--	--	--	--
MAY 09...	--	<1	--	<1	--	510	--	--	10	--	8.0
JUN 14...	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--	--	--
AUG 15...	2	--	<1	--	<1	--	500	6	--	2	--

08244500 PLATORO RESERVOIR AT PLATORO, CO

LOCATION.--Lat 37°21'07", long 106°32'38", Conejos County, Hydrologic Unit 13010005, on right bank in valvehouse, 400 ft downstream from Platoro Dam on Conejos River and 0.7 mi west of Platoro.

DRAINAGE AREA.--40 mi², approximately.

PERIOD OF RECORD.--November 1951 to current year.

REVISED RECORDS.--WDR CO-85-1: 1984.

GAGE.--Nonrecording gage. Datum of gage is 9,911.5 ft above sea level, (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations above sea level. Prior to June 9, 1955, nonrecording gage at present site and datum. June 9, 1955 to Sept. 30, 1959, water-stage recorder in gate chamber at dam for elevations above 9,921.0 ft, at same datum.

REMARKS.--Reservoir is formed by an earth and rockfill dam and dikes. Dam completed Dec. 9, 1951; storage began Nov. 7, 1951. Capacity of reservoir (based on revised capacity table put in use Jan. 1, 1975), 59,570 acre-ft, between elevations 9,911.5 ft, sill of trashrack at outlet, and 10,034.0 ft, crest of spillway. No dead storage. Reservoir is used for irrigation and flood control. Figures given are usable contents.

COOPERATION.--Records provided by State of Colorado, Division of Water Resources.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 61,420 acre-ft, June 9, 11, 1958, elevation, 10,035.5 ft; no contents for long periods in 1952-56.

EXTREMES FOR CURRENT YEAR.--Maximum contents, about 54,910 acre-ft, July 11, elevation, 10,029.02 ft; minimum contents, about 19,830 acre-ft, May 21, elevation, 9,982.63 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	10,012.0	40,090	-
Oct. 31.	10,011.1	39,350	-740
Nov. 30.	10,012.4	40,370	+1020
Dec. 31.	10,012.9	40,800	+430
CAL YR 1994.			-1400
Jan. 31.	10,013.3	41,110	+310
Feb. 28.	10,013.8	41,540	+430
Mar. 31.	10,015.1	42,580	+1,040
Apr. 30.	9,997.3	29,060	-13,520
May 31.	9,986.5	22,100	-6,960
June 30.	10,026.8	52,820	+30,720
July 31.	10,027.5	53,480	+660
Aug. 31.	10,022.0	48,540	-4,940
Sept. 30.	10,021.4	48,040	-500
WTR YR 1995.			+7,950

08245000 CONEJOS RIVER BELOW PLATORO RESERVOIR, CO

LOCATION.--Lat 37°21'18", long 106°32'37", Conejos County, Hydrologic Unit 13010005, on left bank 1,100 ft downstream from valvehouse for Platoro Reservoir and 0.7 mi northwest of Platoro.

DRAINAGE AREA.--40 mi², approximately.

PERIOD OF RECORD.--May 1952 to current year.

GAGE.--Water-stage recorder with satellite telemetry, and concrete control. Datum of gage is 9,866.60 ft above sea level, (levels by U.S. Bureau of Reclamation).

REMARKS.--Estimated daily discharges: Oct.28 to Apr.7. Records good except for estimated daily discharges, which are fair. No diversion upstream from station. Flow completely regulated by Platoro Reservoir (station 08244500).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 5, 1911, is the greatest since at least 1854, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	7.1	7.1	7.0	7.0	7.0	7.0	372	172	690	242	82
2	37	7.1	7.1	7.0	7.0	7.0	7.0	371	222	722	259	53
3	49	7.1	7.1	7.0	7.0	7.0	7.0	368	310	316	269	57
4	62	7.1	7.1	7.0	7.0	7.0	7.0	368	337	178	255	48
5	49	7.1	7.1	7.0	7.0	7.0	7.0	368	244	544	251	75
6	58	7.1	7.1	7.0	7.0	7.0	7.0	364	103	695	256	93
7	55	7.1	7.1	7.0	7.0	7.0	33	356	41	735	255	86
8	45	7.1	7.1	7.0	7.0	7.0	62	358	41	771	266	87
9	37	7.1	7.1	7.0	7.0	7.0	61	175	232	766	273	87
10	33	7.1	7.1	7.0	7.0	7.0	75	44	378	765	241	86
11	45	7.1	7.1	7.0	7.0	7.0	175	44	433	569	212	76
12	53	7.1	7.1	7.0	7.0	7.0	310	73	407	777	232	52
13	53	7.1	7.1	7.0	7.0	7.0	394	97	227	783	244	41
14	36	7.1	7.1	7.0	7.0	7.0	392	100	94	755	243	41
15	48	7.1	7.1	7.0	7.0	7.0	388	218	50	620	180	53
16	49	7.1	7.1	7.0	7.0	7.0	386	455	50	531	140	61
17	44	7.1	7.1	7.0	7.0	7.0	386	653	51	604	146	36
18	32	7.1	7.1	7.0	7.0	7.0	382	686	50	655	129	25
19	23	7.1	7.1	7.0	7.0	7.0	382	522	48	545	120	25
20	29	7.1	7.1	7.0	7.0	7.0	378	381	45	457	120	24
21	41	7.1	7.1	7.0	7.0	7.0	375	379	45	369	136	25
22	46	7.1	7.1	7.0	7.0	7.0	373	235	45	301	148	24
23	46	7.1	7.1	7.0	7.0	7.0	371	135	46	296	148	25
24	50	7.1	7.1	7.0	7.0	7.0	369	130	46	269	148	25
25	53	7.1	7.1	7.0	7.0	7.0	369	90	46	200	130	25
26	53	7.1	7.1	7.0	7.0	7.0	371	61	46	194	114	24
27	43	7.1	7.1	7.0	7.0	7.0	373	61	46	237	114	25
28	20	7.1	7.1	7.0	7.0	7.0	375	61	121	219	92	21
29	7.1	7.1	7.1	7.0	---	7.0	375	61	305	193	71	19
30	7.1	7.1	7.1	7.0	---	7.0	374	46	530	188	71	19
31	7.1	---	7.1	7.0	---	7.0	---	95	---	231	78	---
TOTAL	1260.3	213.0	220.1	217.0	196.0	217.0	7571.0	7727	4811	15175	5583	1420
MEAN	40.7	7.10	7.10	7.00	7.00	7.00	252	249	160	490	180	47.3
MAX	62	7.1	7.1	7.0	7.0	7.0	394	686	530	783	273	93
MIN	7.1	7.1	7.1	7.0	7.0	7.0	7.0	44	41	178	71	19
AC-FT	2500	422	437	430	389	430	15020	15330	9540	30100	11070	2820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1995, BY WATER YEAR (WY)

MEAN	37.5	67.5	11.1	11.5	12.4	10.8	54.0	242	339	219	88.1	42.3
MAX	158	405	50.0	50.0	102	27.5	252	492	609	610	429	164
(WY)	1958	1966	1986	1986	1983	1986	1995	1974	1982	1952	1952	1982
MIN	1.92	2.00	2.00	3.20	3.00	3.00	3.00	16.9	87.0	24.9	9.19	3.34
(WY)	1957	1957	1957	1991	1957	1957	1957	1958	1977	1972	1972	1956

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1952 - 1995
ANNUAL TOTAL	36184.4	44610.4	
ANNUAL MEAN	99.1	122	93.5
HIGHEST ANNUAL MEAN			137
LOWEST ANNUAL MEAN			44.3
HIGHEST DAILY MEAN	743	783	1150
LOWEST DAILY MEAN	6.8	^a 7.0	^b .00
ANNUAL SEVEN-DAY MINIMUM	7.1	7.0	.16
INSTANTANEOUS PEAK FLOW		798	1160
INSTANTANEOUS PEAK STAGE		3.42	^c 4.02
ANNUAL RUNOFF (AC-FT)	71770	88480	67740
10 PERCENT EXCEEDS	319	376	329
50 PERCENT EXCEEDS	28	37	17
90 PERCENT EXCEEDS	7.1	7.0	6.0

a-Also occurred Jan 2 to Apr 6.

b-Also occurred Oct 17-20, 1955.

c-Maximum gage height, 4.29 ft, Jun 15, 1958.

08246500 CONEJOS RIVER NEAR MOGOTE, CO

LOCATION.--Lat 37°03'14", long 106°11'13", in SE¹/4SE¹/4 sec.34, T.33 N., R.7 E., Conejos County, Hydrologic Unit 13010005, on left bank 75 ft downstream from bridge on State Highway 174, 0.4 mi downstream from Fox Creek, 5.3 mi west of Mogote, and 10 mi west of Antonito.

DRAINAGE AREA.--282 mi².

PERIOD OF RECORD.--April 1903 to October 1905, October 1911 to current year. Monthly discharge only for some periods, published in WSP 1312. Records for March 1900 at site 5.5 mi upstream and May 1905 to September 1911 (some missing periods most years) at site 3.2 mi upstream not equivalent to present site due to inflow.

REVISED RECORDS.--WSP 898: 1911(M). WSP 1312: 1903-5, 1913. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,273.69 ft above sea level, Colorado State Highway datum. Apr. 17, 1903 to Oct. 31, 1905, nonrecording gage 400 ft downstream, at different datum. Oct. 5, 1911 to early 1915, nonrecording gage, and from early 1915 to Oct. 1, 1988, water-stage recorder at site 100 ft upstream, at datum 2.15 ft, lower. Since Oct. 1, 1988, at present site and datum.

REMARKS.--Estimated daily discharges: Nov. 30 to Feb. 12, and Feb. 16-19. Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 500 acres of hay meadows upstream from station. Some regulation by Platoro Reservoir (station 08244500).

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	89	58	52	58	103	105	791	791	2100	463	242
2	127	88	66	58	60	93	105	893	1100	2090	451	220
3	106	98	68	56	56	92	106	889	1300	1960	447	185
4	123	86	68	60	56	90	115	846	1470	1260	441	186
5	141	89	72	60	58	87	141	930	1450	1350	419	157
6	211	104	76	58	60	95	174	864	1600	1640	425	189
7	172	108	68	54	62	77	198	797	1460	1730	416	207
8	155	110	58	58	56	74	269	748	1400	1860	422	224
9	142	100	48	60	50	78	322	712	1400	1830	443	226
10	132	92	48	62	48	79	277	565	1500	1850	437	242
11	126	96	54	64	48	90	309	609	1520	1650	375	234
12	131	111	54	62	50	108	357	639	1770	1650	408	196
13	133	98	58	58	53	92	528	598	1930	1640	458	160
14	132	88	54	60	51	96	575	561	1960	1540	445	152
15	126	76	50	66	44	107	578	865	1970	1370	427	174
16	140	84	50	60	48	126	561	1370	1910	1290	299	164
17	146	94	56	52	53	125	574	1590	1880	1250	296	158
18	134	73	60	48	56	126	545	1400	2060	1260	276	133
19	129	87	60	52	64	148	555	1290	1850	1240	249	125
20	124	85	56	56	68	151	533	1200	1820	1010	348	117
21	130	80	60	60	72	170	526	1420	1820	915	300	113
22	141	80	64	54	82	192	524	1590	1730	757	378	118
23	146	62	68	52	89	165	505	1440	1590	700	364	108
24	146	61	68	56	93	162	499	1190	1500	623	358	107
25	145	69	64	58	100	144	507	1010	1470	550	381	119
26	145	80	64	60	105	130	526	846	1450	488	338	110
27	143	65	64	56	100	119	550	784	1440	501	292	107
28	129	59	62	56	104	126	573	772	1410	506	334	103
29	113	50	62	54	---	115	636	712	1550	447	317	130
30	100	56	62	50	---	96	757	628	1940	433	250	163
31	90	---	58	56	---	97	---	590	---	452	257	---
TOTAL	4196	2518	1878	1768	1844	3553	12530	29139	48041	37942	11514	4869
MEAN	135	83.9	60.6	57.0	65.9	115	418	940	1601	1224	371	162
MAX	211	111	76	66	105	192	757	1590	2060	2100	463	242
MIN	90	50	48	48	44	74	105	561	791	433	249	103
AC-FT	8320	4990	3730	3510	3660	7050	24850	57800	95290	75260	22840	9660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1995, BY WATER YEAR (WY)

	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	116	96.2	51.8	48.0	51.7	79.5	322	1109	1309	483	207	130																																																																																	
MAX	515	467	116	116	159	153	800	2053	3163	1502	626	484																																																																																	
(WY)	1905	1966	1987	1986	1983	1989	1936	1937	1920	1957	1952	1927																																																																																	
MIN	34.7	29.9	26.9	22.7	30.0	41.0	138	358	118	69.2	44.2	26.8																																																																																	
(WY)	1957	1931	1977	1918	1904	1904	1970	1977	1934	1904	1972	1956																																																																																	

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1903 - 1995
ANNUAL TOTAL	121126	159792	
ANNUAL MEAN	332	438	332
HIGHEST ANNUAL MEAN			592
LOWEST ANNUAL MEAN			109
HIGHEST DAILY MEAN	2150	2100	4490
LOWEST DAILY MEAN	34	44	10
ANNUAL SEVEN-DAY MINIMUM	38	49	17
INSTANTANEOUS PEAK FLOW		2310	^a 9000
INSTANTANEOUS PEAK STAGE		5.86	^b 8.50
ANNUAL RUNOFF (AC-FT)	240300	316900	240400
10 PERCENT EXCEEDS	1280	1450	1060
50 PERCENT EXCEEDS	129	142	96
90 PERCENT EXCEEDS	46	56	42

a-Present site and datum, from rating curve extended above 3100 ft³/s.
b-From floodmarks.

08247500 SAN ANTONIO RIVER AT ORTIZ, CO

LOCATION.--Lat 36°59'35", long 106°02'17", in NE¹/4SE¹/4 sec.24, T.32 N., R.8 E., Rio Arriba County, New Mexico, Hydrologic Unit 13010005, on left bank 800 ft south of Colorado-New Mexico State line, 0.4 mi southeast of Ortiz, and 0.4 mi upstream from Los Pinos River.

DRAINAGE AREA.--110 mi², approximately.

PERIOD OF RECORD.--April 1919 to October 1920, October 1924 to current year (no winter records prior to 1941). Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS.--WSP 1732: 1951. WSP 1923: 1927 (monthly runoff).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,970 ft above sea level, from topographic map. Prior to Apr. 7, 1926, nonrecording gage at various locations near present site, at different datums. Apr. 7, 1926 to June 24, 1954, water-stage recorder at site 200 ft downstream, at present datum.

REMARKS.--Estimated daily discharges: Nov. 13-15, 17-19, 22-23, Nov. 28 to Mar. 1, Mar. 6-10, and May 1-2. Records good except for estimated daily discharges, which are poor. A few small diversions upstream from station for irrigation.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 5, 1911, is the greatest since at least 1854, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	3.6	2.2	2.0	2.9	29	24	257	173	25	.06	1.8
2	1.8	3.6	3.0	2.4	3.2	22	24	309	221	18	.00	1.6
3	1.8	5.1	3.0	2.2	3.1	18	25	379	220	14	.00	1.3
4	1.9	8.2	3.2	2.5	3.1	22	38	321	209	13	.00	1.4
5	2.0	4.3	3.6	2.6	3.2	19	63	371	199	13	.00	.96
6	2.7	7.2	4.4	2.5	3.4	21	94	351	197	11	.00	.61
7	7.6	7.3	3.6	2.2	3.6	17	118	244	162	9.2	.00	.77
8	4.3	8.5	2.8	2.4	3.5	19	128	206	133	8.2	.00	6.3
9	4.1	10	2.0	2.8	3.4	22	141	180	116	5.8	.00	5.8
10	3.0	7.5	2.2	2.9	3.4	22	87	268	98	5.2	.00	12
11	2.5	6.6	2.8	2.7	3.6	34	62	335	85	5.2	.00	3.0
12	2.2	9.1	2.8	2.6	4.1	55	52	345	76	4.5	.00	1.8
13	2.4	12	3.2	2.4	4.3	38	58	250	70	3.5	.00	1.6
14	2.3	8.0	2.9	2.6	4.7	43	94	244	65	2.3	.66	1.4
15	3.1	6.6	2.7	4.0	4.9	55	91	441	61	2.9	2.1	2.2
16	6.2	8.0	2.7	2.9	5.0	62	70	554	57	3.0	2.0	2.9
17	6.2	6.2	3.1	2.4	6.0	72	92	446	62	4.1	1.7	2.1
18	6.0	3.0	3.3	1.9	8.0	73	66	243	78	6.9	1.0	1.5
19	5.6	5.0	3.3	2.2	9.0	98	69	260	51	6.0	1.2	1.2
20	6.4	7.0	2.9	2.5	12	100	55	352	42	5.1	3.2	1.2
21	6.3	6.6	3.3	2.8	15	107	52	376	37	4.4	3.2	1.4
22	6.0	5.0	3.5	2.5	17	130	49	416	32	3.2	4.6	1.4
23	6.0	3.2	3.9	2.1	19	74	44	385	28	2.9	4.2	1.3
24	5.8	4.3	3.7	2.4	21	69	41	267	25	2.5	5.5	1.6
25	5.5	5.0	3.3	2.7	23	52	47	248	22	2.1	13	1.8
26	5.6	5.4	3.3	3.0	26	39	57	213	20	1.7	8.4	2.5
27	5.2	4.6	3.3	2.7	29	37	74	191	19	1.2	5.3	2.2
28	5.1	3.0	3.1	2.6	33	33	90	177	17	.62	5.2	1.8
29	4.7	1.8	3.1	2.5	---	27	131	184	17	.39	6.1	1.9
30	4.5	2.2	3.1	2.2	---	24	215	160	31	.14	2.9	3.8
31	4.4	---	2.6	2.6	---	26	---	159	---	.05	2.1	---
TOTAL	133.7	177.9	95.9	78.8	277.4	1459	2251	9132	2623	185.10	72.42	71.14
MEAN	4.31	5.93	3.09	2.54	9.91	47.1	75.0	295	87.4	5.97	2.34	2.37
MAX	7.6	12	4.4	4.0	33	130	215	554	221	25	13	12
MIN	1.8	1.8	2.0	1.9	2.9	17	24	159	17	.05	.00	.61
AC-FT	265	353	190	156	550	2890	4460	18110	5200	367	144	141

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

MEAN	2.92	3.86	2.67	2.29	3.67	16.0	106	152	17.9	2.02	2.99	1.29
MAX	12.0	13.8	8.12	6.00	13.0	63.5	302	508	108	12.0	17.7	4.42
(WY)	1987	1987	1967	1965	1962	1960	1962	1941	1957	1957	1957	1986
MIN	.000	1.04	.48	.000	.25	2.50	22.2	4.05	.027	.000	.000	.000
(WY)	1952	1956	1977	1977	1990	1948	1972	1977	1977	1940	1951	1951

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1940 - 1995

ANNUAL TOTAL	12922.00	16557.36		
ANNUAL MEAN	35.4	45.4		26.4
HIGHEST ANNUAL MEAN				61.8
LOWEST ANNUAL MEAN				3.35
HIGHEST DAILY MEAN	449	May 7	554	May 16
LOWEST DAILY MEAN	^a .00	Jul 6	^b .00	Aug 2
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 6	.00	Aug 2
INSTANTANEOUS PEAK FLOW			720	May 16
INSTANTANEOUS PEAK STAGE			4.45	May 16
ANNUAL RUNOFF (AC-FT)	25630	32840		19140
10 PERCENT EXCEEDS	113	166		67
50 PERCENT EXCEEDS	3.5	5.2		3.0
90 PERCENT EXCEEDS	.67	1.7		.00

a-Also occurred Jul 7-28.

b-Also occurred Aug 3-13.

c-Also occurred Jun 25 to Aug 7, and Aug 19-23, 1940, Jul 22 to Aug 15, 1993, Jul 6-28, 1994, and Aug 2-13, 1995.

d-Also occurred for periods starting Jul 22, 1993, Jul 6, 1994, and Aug 2, 1995.

e-From rating curve extended above 1100 ft³/s.

08248000 LOS PINOS RIVER NEAR ORTIZ, CO

LOCATION.--Lat 36°58'56", long 106°04'23", on line between secs.26, and 27, T.32 N., R.8 E., Rio Arriba County, New Mexico, Hydrologic Unit 13010005, on left bank 0.9 mi south of Colorado-New Mexico State line, 2.1 mi southwest of Ortiz, and 2.9 mi upstream from mouth.

DRAINAGE AREA.--167 mi².

PERIOD OF RECORD.--January 1915 to December 1920, October 1924 to current year. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,040 ft above sea level, from topographic map. Prior to Apr. 15, 1955, at site 350 ft upstream at datum 2.52 ft, higher.

REMARKS.--Estimated daily discharges: Nov. 14 to Mar. 1, Mar. 6-9, and Mar. 30-31. Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 5, 1911, is the greatest since at least 1854, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	23	24	18	19	55	53	391	637	572	60	33
2	24	23	27	19	21	60	52	502	847	520	57	30
3	21	27	28	19	20	46	53	524	968	464	53	29
4	21	14	28	20	19	44	60	522	1010	405	49	27
5	24	25	30	20	19	43	79	605	1040	344	46	24
6	61	30	33	19	20	38	107	538	1240	331	44	22
7	33	31	30	18	21	30	142	455	1150	335	42	26
8	30	34	26	20	20	39	177	397	1060	328	40	44
9	28	28	18	21	19	44	206	390	980	320	38	45
10	26	25	17	22	18	42	161	510	866	300	45	37
11	24	29	19	23	18	47	128	587	834	278	38	35
12	19	39	20	22	18	53	116	611	901	262	39	30
13	17	28	22	21	19	52	120	496	949	240	57	27
14	17	24	21	22	20	52	153	544	959	222	52	25
15	20	24	20	25	18	55	152	874	959	204	62	28
16	19	26	20	22	18	62	144	1070	901	198	48	26
17	23	23	21	19	20	66	159	1030	946	196	45	23
18	17	24	23	17	23	69	139	701	1010	175	38	23
19	24	27	24	19	24	80	137	689	835	164	36	23
20	26	26	23	21	27	84	121	850	820	149	57	22
21	26	25	24	22	29	93	112	1050	785	133	48	20
22	26	26	25	21	31	111	108	1250	735	119	60	21
23	27	23	26	19	34	95	99	1220	663	109	48	20
24	28	24	26	21	37	91	95	996	614	99	38	20
25	26	24	25	22	40	80	102	877	568	91	49	22
26	25	26	24	23	44	75	117	802	551	84	42	20
27	25	24	23	21	47	71	143	713	560	74	44	20
28	26	22	21	20	50	66	169	669	547	70	55	20
29	26	21	21	19	---	61	237	597	516	66	43	31
30	28	23	21	17	---	56	357	506	636	63	38	59
31	24	---	19	18	---	53	---	499	---	60	36	---
TOTAL	788	768	729	630	713	1913	3998	21465	25087	6975	1447	832
MEAN	25.4	25.6	23.5	20.3	25.5	61.7	133	692	836	225	46.7	27.7
MAX	61	39	33	25	50	111	357	1250	1240	572	62	59
MIN	17	14	17	17	18	30	52	390	516	60	36	20
AC-FT	1560	1520	1450	1250	1410	3790	7930	42580	49760	13830	2870	1650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	27.6	21.8	16.1	14.5	17.0	33.8	229	620	339	75.3	35.6	25.0
MAX	109	70.1	34.4	26.0	30.0	84.7	610	1341	1022	258	112	101
(WY)	1987	1987	1987	1987	1962	1971	1936	1952	1957	1957	1929	1927
MIN	10.1	11.1	5.00	5.00	7.50	13.9	65.9	96.8	25.2	13.2	11.9	7.53
(WY)	1957	1957	1918	1918	1964	1977	1968	1977	1977	1934	1977	1956

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1915 - 1995
ANNUAL TOTAL	48203	65345	
ANNUAL MEAN	132	179	122
HIGHEST ANNUAL MEAN			230
LOWEST ANNUAL MEAN			28.7
HIGHEST DAILY MEAN	1260	May 19	2410
LOWEST DAILY MEAN	^a 11	Jan 31	^b 4.0
ANNUAL SEVEN-DAY MINIMUM	12	Jan 29	18
INSTANTANEOUS PEAK FLOW			1510
INSTANTANEOUS PEAK STAGE		5.94	May 23
ANNUAL RUNOFF (AC-FT)	95610	129600	88120
10 PERCENT EXCEEDS	509	647	392
50 PERCENT EXCEEDS	27	39	25
90 PERCENT EXCEEDS	16	20	12

a-Also occurred Feb 1-3.

b-Minimum observed, 4.0 ft³/s, Dec 17, 1945 (discharge measurement); minimum daily discharge for period of record, also occurred Dec 12-14, 17, 22, 30-31, 1989, and Jan 4-6, 1990, but may have been less during periods of no gage-height record.

c-Site and datum then in use, from rating curve extended above 1600 ft³/s.

d-Maximum gage height, 6.19 ft, May 22, 1993, present site and datum.

08249000 CONEJOS RIVER NEAR LASAUSES, CO

LOCATION.--Lat 37°18'01", long 105°44'47", in SW¹/₄SW¹/₄ sec.2, and SE¹/₄NE¹/₄ sec.10 (two channels), T.35 N., R.11 E., Conejos County, Hydrologic Unit 13010005, on left bank of main channel 125 ft downstream from bridge on State Highway 158 and on left bank of secondary channel 230 ft upstream from bridge on State Highway 158, 1.0 mi upstream from mouth, 2.1 mi north of Lasauses, and 13 mi southeast of Alamosa.

DRAINAGE AREA.--887 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1921 to current year. Monthly discharge only for some periods, published in WSP 1312. Prior to Oct. 1, 1966, published as "near La Sausés."

REVISED RECORDS.--WSP 1312: 1934(M).

GAGE.--Two water-stage recorders with satellite telemetry. Datum of gage on main (north) channel is 7,495.02 ft above sea level, and on secondary (south) channel is 7,496.89 ft above sea level (levels by U.S. Bureau of Reclamation). Main channel: See WSP 1732 for history of changes prior to Oct. 1, 1937. South channel: Prior to Oct. 23, 1934, at bridge 230 ft downstream at datum 0.56 ft, lower; Oct. 23, 1934 to May 3, 1936, at site 250 ft downstream, and May 4, 1936 to Oct. 13, 1965, at site 280 ft downstream, at datum 1.00 ft, lower.

REMARKS.--Estimated daily discharges: Nov. 27 to Dec. 4, Dec. 9-22, and Jan. 17-19. Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 75,000 acres upstream from station.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 5, 1911, is the greatest since at least 1854, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	24	46	66	81	191	152	763	409	1550	2.7	33
2	2.6	26	45	69	80	191	136	796	481	1790	1.8	27
3	3.1	28	46	72	79	160	123	1030	682	1860	1.3	21
4	2.7	35	59	69	80	148	126	967	879	1820	.98	12
5	1.7	41	80	73	84	144	118	849	1050	1640	.68	10
6	1.4	35	83	75	86	146	137	962	1080	1400	.58	12
7	12	39	83	71	90	158	192	858	1320	1350	.47	16
8	16	46	79	77	92	146	254	723	1290	1340	.31	19
9	15	47	77	75	101	137	376	570	1120	1310	.46	29
10	10	53	71	75	95	130	404	439	1100	1310	.35	49
11	7.0	51	67	77	94	127	319	468	1110	1300	.33	100
12	7.8	56	65	80	104	152	312	497	1080	1190	.50	82
13	8.8	63	67	74	94	184	326	489	1140	1040	.63	55
14	9.6	66	67	73	100	156	449	391	1260	984	23	39
15	12	52	65	83	96	162	483	392	1360	930	54	35
16	13	42	65	84	80	188	489	680	1390	839	50	44
17	15	37	63	72	79	216	478	1160	1420	772	50	42
18	15	42	65	71	83	229	495	1500	1520	748	55	43
19	16	45	67	71	86	235	489	1150	1690	776	49	39
20	18	44	67	71	91	282	459	946	1630	717	41	32
21	18	43	65	75	97	273	407	963	1440	598	68	34
22	19	48	63	78	102	323	407	1120	1300	507	43	29
23	19	45	73	69	122	335	433	1420	1170	381	36	30
24	19	47	80	71	148	273	407	1480	1030	307	32	25
25	19	46	71	76	163	255	377	1170	961	246	31	20
26	20	51	75	84	185	225	385	920	933	155	38	17
27	22	47	72	78	193	204	407	791	924	111	63	12
28	25	44	71	75	187	190	429	655	911	86	48	13
29	23	40	69	82	---	188	462	623	970	56	56	15
30	23	44	78	69	---	173	572	599	1150	5.2	59	18
31	23	---	77	71	---	156	---	471	---	3.5	37	---
TOTAL	418.0	1327	2121	2306	2972	6077	10603	25842	33800	27121.7	844.09	952
MEAN	13.5	44.2	68.4	74.4	106	196	353	834	1127	875	27.2	31.7
MAX	25	66	83	84	193	335	572	1500	1690	1860	68	100
MIN	1.3	24	45	66	79	127	118	391	409	3.5	.31	10
AC-FT	829	2630	4210	4570	5890	12050	21030	51260	67040	53800	1670	1890

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1995, BY WATER YEAR (WY)

	MEAN	48.9	85.5	59.7	61.3	78.1	102	257	735	579	151	50.6	39.5
MAX	307	424	140	146	185	261	1177	2642	1850	1132	413	425	
(WY)	1942	1976	1986	1986	1983	1989	1924	1924	1935	1957	1952	1927	
MIN	.11	8.92	16.7	24.0	29.6	24.9	1.49	1.39	.13	.027	.000	.000	
(WY)	1978	1978	1978	1964	1964	1957	1990	1972	1977	1972	1934	1976	

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1921 - 1995

ANNUAL TOTAL		66774.13		114383.79								
ANNUAL MEAN		183		313						187		
HIGHEST ANNUAL MEAN										451		1941
LOWEST ANNUAL MEAN										17.2		1977
HIGHEST DAILY MEAN		1540	Jun 3	1860	Jul 3	3820					May 15	1941
LOWEST DAILY MEAN		^a .00	Aug 9	.31	Aug 8	^b .00					Jun 27	1934
ANNUAL SEVEN-DAY MINIMUM		.02	Aug 7	.43	Aug 6	.00					Jul 21	1934
INSTANTANEOUS PEAK FLOW				Not determined		^c 3890					May 15	1941
ANNUAL RUNOFF (AC-FT)		132400		226900		135600						
10 PERCENT EXCEEDS		594		1090		543						
50 PERCENT EXCEEDS		65		80		56						
90 PERCENT EXCEEDS		1.4		15		1.6						

a-Also occurred Aug 10-13.

b-Also occurred Jun 28 to Jul 1, Jul 3, and Jul 21 to Sep 8, 1934, and Aug 9-13, 1994.

c-Gage height not determined.

08249000 CONEJOS RIVER NEAR LASAUSES, CO--Continued
 (Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED SATUR-ATION (%)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT												
19...	0830	14	171	7.0	0.5	6.0	580	8.6	91	64	20	3.3
NOV												
21...	1215	43	159	7.7	2.0	4.0	578	10.5	105	61	19	3.4
DEC												
20...	1015	e66	132	7.8	10.0	0.0	585	12.0	107	52	16	3.0
JAN												
09...	1330	56	128	8.1	10.5	2.5	580	11.0	106	45	14	2.5
FEB												
07...	0845	100	121	7.9	-1.5	2.0	580	10.1	96	49	15	2.7
MAR												
20...	1515	408	106	7.9	17.0	11.0	573	8.4	102	42	13	2.3
APR												
10...	1600	393	83	7.9	5.5	8.0	574	9.2	103	33	10	1.9
MAY												
08...	1645	732	84	7.8	14.0	9.0	570	8.9	103	33	10	1.9
JUN												
14...	0830	1240	91	7.3	12.5	15.0	582	6.3	82	36	11	2.0
JUL												
19...	1215	767	91	7.6	20.0	16.5	583	7.3	98	36	11	2.0
AUG												
16...	1400	52	123	7.9	24.5	23.5	580	6.5	102	47	15	2.4

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-A-BONATE WATER DIS IT FIELD (MG/L AS HCO3)	CAR-B-BONATE WATER DIS IT FIELD (MG/L AS CO3)	ALKA-C-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT											
19...	8.9	22	0.5	3.6	86	0	71	11	1.3	0.20	38
NOV											
21...	7.9	21	0.4	2.8	88	0	72	9.2	1.3	0.20	35
DEC											
20...	5.7	18	0.3	2.2	76	0	62	5.8	1.0	0.10	30
JAN											
09...	5.1	19	0.3	2.1	69	0	57	5.9	1.0	0.10	27
FEB											
07...	5.3	18	0.3	2.2	66	0	54	3.6	2.8	0.10	29
MAR											
20...	3.7	15	0.2	2.4	56	0	46	3.5	0.90	0.10	23
APR											
10...	3.0	16	0.2	1.5	44	0	36	2.5	0.80	<0.10	21
MAY											
08...	3.4	18	0.3	1.5	42	0	35	2.4	0.80	0.10	22
JUN											
14...	4.1	19	0.3	2.1	50	0	41	2.2	0.80	0.10	20
JUL											
19...	4.4	20	0.3	1.8	50	0	41	2.0	0.50	0.10	19
AUG											
16...	5.1	18	0.3	2.2	65	0	54	4.7	0.70	0.20	28

A-Field dissolved bicarbonate, determined by incremental titration method.
 B-Field dissolved carbonate, determined by incremental titration method.
 C-Field total dissolved alkalinity, determined by incremental titration method.
 e-estimated

08249000 CONEJOS RIVER NEAR LASAUSES, CO--Continued
(Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DIS-SOLVED (MG/L AS P)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)
OCT 19...	131	129	0.18	<0.010	<0.050	<0.015	<0.20	<0.20	0.020	0.020	--
NOV 21...	123	122	0.17	<0.010	<0.050	<0.015	<0.20	<0.20	0.020	0.010	--
DEC 20...	105	101	0.14	<0.010	<0.050	<0.015	<0.20	<0.20	0.020	0.020	--
JAN 09...	103	92	0.14	<0.010	<0.050	<0.015	<0.20	<0.20	0.030	0.010	--
FEB 07...	100	93	0.14	<0.010	<0.050	<0.015	<0.20	<0.20	<0.010	0.010	--
MAR 20...	84	77	0.11	<0.010	<0.050	<0.015	0.20	<0.20	0.050	0.040	--
APR 10...	68	63	0.09	<0.010	<0.050	<0.015	0.40	<0.20	0.170	0.040	--
MAY 08...	77	63	0.10	<0.010	<0.050	<0.015	0.30	<0.20	0.100	0.040	1300
JUN 14...	77	67	0.10	<0.010	<0.050	<0.015	<0.20	0.30	0.100	0.050	--
JUL 19...	74	66	0.10	<0.010	<0.050	0.020	0.20	<0.20	0.070	0.030	--
AUG 16...	87	91	0.12	<0.010	<0.050	<0.015	0.20	<0.20	0.060	0.040	--

DATE	ALUMINUM, DIS-SOLVED (UG/L AS AL)	ANTI-MONY, TOTAL (UG/L AS SB)	ANTI-MONY, DIS-SOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DIS-SOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
OCT 19...	--	--	--	--	--	--	--	--	--	--	--
NOV 21...	--	--	--	--	--	--	--	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--	--
JAN 09...	--	--	--	--	--	--	--	--	--	--	--
FEB 07...	--	--	--	--	--	--	--	--	--	--	--
MAR 20...	--	--	--	--	--	--	--	--	--	--	--
APR 10...	--	--	--	--	--	--	--	--	--	--	--
MAY 08...	--	<1	--	<1	<100	--	<10	--	<10	--	<1
JUN 14...	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--	--	--
AUG 16...	20	--	<1	--	--	21	--	<1	--	<10	--

08249000 CONEJOS RIVER NEAR LASAUSES, CO--Continued
 (Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 19...	--	--	--	--	--	--	--	--	100	--	--
NOV 21...	--	--	--	--	--	--	--	--	110	--	--
DEC 20...	--	--	--	--	--	--	--	--	110	--	--
JAN 09...	--	--	--	--	--	--	--	--	83	--	--
FEB 07...	--	--	--	--	--	--	--	--	91	--	--
MAR 20...	--	--	--	--	--	--	--	--	120	--	--
APR 10...	--	--	--	--	--	--	--	--	160	--	--
MAY 08...	--	1	--	1	--	2	--	1400	160	6	--
JUN 14...	--	--	--	--	--	--	--	--	200	--	--
JUL 19...	--	--	--	--	--	--	--	--	170	--	--
AUG 16...	<1	--	<1	--	<1	--	2	--	94	--	<1

DATE	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 19...	--	--	--	45	--	--	--	--	12	0.45	--
NOV 21...	--	--	--	37	--	--	--	--	17	2.0	--
DEC 20...	--	--	--	28	--	--	--	--	27	e4.8	--
JAN 09...	--	--	--	24	--	--	--	--	8	1.2	--
FEB 07...	--	--	--	24	--	--	--	--	14	3.8	--
MAR 20...	--	--	--	52	--	--	--	--	306	337	--
APR 10...	--	--	--	24	--	--	--	--	100	106	--
MAY 08...	<10	--	60	15	<0.10	--	<1	--	63	125	1
JUN 14...	--	--	--	17	--	--	--	--	89	298	--
JUL 19...	--	--	--	23	--	--	--	--	49	101	--
AUG 16...	--	<4	--	29	--	<0.1	--	<1	18	2.5	--

08249000 CONEJOS RIVER NEAR LASAUSES, CO--Continued
 (Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	--	--	--	--	--	--	--	--	--	--	--
NOV 21...	--	--	--	--	--	--	--	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--	--
JAN 09...	--	--	--	--	--	--	--	--	--	--	--
FEB 07...	--	--	--	--	--	--	--	--	--	--	--
MAR 20...	--	--	--	--	--	--	--	--	--	--	--
APR 10...	--	--	--	--	--	--	--	--	--	--	--
MAY 08...	--	<1	--	<1	--	70	--	--	<10	--	6.3
JUN 14...	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--	--	--
AUG 16...	1	--	<1	--	<1	--	120	9	--	10	--

08251500 RIO GRANDE NEAR LOBATOS, CO

LOCATION.--Lat 37°04'43", long 105°45'23", in NE¹/₄NW¹/₄ sec.27, T.33 N., R.11 E., Conejos County, Hydrologic Unit 13010002, on right bank at highway bridge, 5.7 mi north of Colorado-New Mexico State line, 8 mi downstream from Culebra Creek, 11 mi east of Lobatos, and 14 mi east of Antonito.

DRAINAGE AREA.--7,700 mi², approximately, includes 2,940 mi² in closed basin in northern part of San Luis Valley, CO.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1899 to current year. Monthly discharge only for some periods, published in WSP 1312. Published as "at Cenicero" 1899-1901, and as "near Cenicero" 1902-4. Statistical summary computed for 1931 to current year

REVISED RECORDS.--WSP 1312: 1919 (monthly runoff). WSP 210: Drainage area. WDR CO-78-1: 1976.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,427.63 ft above sea level. Prior to 1910, nonrecording gages at same site and datum.

REMARKS.--Estimated daily discharges: Nov. 26-28, and Dec. 11 to Feb. 5. Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, ground-water withdrawals and diversion for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1828, that of June 8, 1905.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	109	360	360	380	608	409	840	879	4190	284	164
2	33	115	384	360	390	607	413	948	846	4710	266	145
3	31	134	390	350	390	586	399	1060	975	5140	239	126
4	33	144	428	350	400	567	408	1180	1140	5700	222	120
5	75	174	441	350	400	554	399	1070	1450	6240	205	109
6	93	168	429	380	401	549	325	1150	1550	5930	197	105
7	77	162	516	360	411	554	329	1140	1660	5480	184	108
8	91	162	522	390	415	520	367	1010	1950	4990	177	114
9	81	156	451	360	435	436	445	872	1700	4540	172	114
10	77	151	358	360	431	387	552	704	1590	4300	168	123
11	68	157	390	390	431	363	532	654	1790	4140	166	149
12	61	172	380	360	439	357	477	688	1550	3920	167	183
13	66	173	390	350	430	390	470	680	1570	3480	165	157
14	78	167	380	360	456	382	561	596	1800	3060	151	153
15	94	161	370	390	470	344	625	540	1870	2500	196	137
16	104	147	370	370	439	330	647	671	1930	2040	177	130
17	113	156	380	340	428	339	636	1130	2190	1680	157	128
18	119	201	390	320	421	365	654	1520	2530	1600	154	122
19	135	212	390	330	416	365	624	1540	2960	1680	145	124
20	144	224	390	330	428	385	630	1210	3440	1660	137	123
21	144	239	390	360	445	423	579	1210	3730	1570	135	121
22	128	240	380	330	468	423	548	1260	3550	1330	145	145
23	111	236	390	320	502	482	586	1550	3220	1100	119	135
24	130	211	400	330	538	444	575	1750	3010	934	120	128
25	126	239	390	350	568	429	545	1800	2960	800	126	127
26	126	300	400	380	580	392	535	1430	3090	671	174	127
27	123	340	390	370	608	352	560	1180	3280	514	181	124
28	122	400	380	360	608	334	567	1030	3310	466	191	115
29	119	341	390	350	---	329	575	970	3340	400	171	119
30	115	296	400	330	---	419	652	997	3600	325	184	127
31	112	---	400	360	---	403	---	957	---	286	178	---
TOTAL	2962	6087	12419	11000	12728	13418	15624	33337	68460	85376	5453	3902
MEAN	95.5	203	401	355	455	433	521	1075	2282	2754	176	130
MAX	144	400	522	390	608	608	654	1800	3730	6240	284	183
MIN	31	109	358	320	380	329	325	540	846	286	119	105
AC-FT	5880	12070	24630	21820	25250	26610	30990	66120	135800	169300	10820	7740

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1995, BY WATER YEAR (WY)

	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957										
MEAN	175	316	285	259	309	416	539	1143	1262	450	156	121	1401	1199	763	521	595	884	2326	4958	4470	2754	842	779	1942	1942	1942	1986	1986	1987	1985	1987	1941	1995	1957	1982	
MAX	1401	1199	763	521	595	884	2326	4958	4470	2754	842	779	1942	1942	1942	1986	1986	1987	1985	1987	1941	1995	1957	1982	12.9	59.6	61.7	75.7	102	66.0	32.3	42.9	19.8	1.28	3.21	1.91	1.91
MIN	12.9	59.6	61.7	75.7	102	66.0	32.3	42.9	19.8	1.28	3.21	1.91	1957	1955	1964	1957	1957	1957	1935	1963	1977	1951	1956	1956													

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1931 - 1995
ANNUAL TOTAL	144493	270766	
ANNUAL MEAN	396	742	a452
HIGHEST ANNUAL MEAN			1264
LOWEST ANNUAL MEAN			70.9
HIGHEST DAILY MEAN	2220	Jun 3	6240 Jul 5
LOWEST DAILY MEAN	24	Aug 30	31 Oct 3
ANNUAL SEVEN-DAY MINIMUM	29	Aug 24	54 Oct 1
INSTANTANEOUS PEAK FLOW			6330 Jul 5
INSTANTANEOUS PEAK STAGE			6.72 Jul 5
ANNUAL RUNOFF (AC-FT)	286600	537100	327700
10 PERCENT EXCEEDS	952	1770	970
50 PERCENT EXCEEDS	313	390	241
90 PERCENT EXCEEDS	41	122	40

a-Average discharge for 31 years (water years 1900-30), 846 ft³/s; 612900 acre-ft/yr, includes period of extensive development for irrigation.

b-Maximum daily discharge for period of record, 13100 ft³/s, Jun 8, 1905.

c-No flow at times in 1950-51, 1956.

d-Maximum discharge and stage for period of record, 13200 ft³/s, Jun 8, 1905, gage height, 9.1 ft, from rating curve extended above 8000 ft³/s.

08251500 RIO GRANDE NEAR LOBATOS, CO--Continued
(Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED SATUR-ATION	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)
OCT 19...	1145	136	409	8.0	9.5	8.5	583	10.2	114	110	32	6.8
NOV 21...	1530	286	281	8.0	-2.0	1.0	579	10.8	100	89	27	5.3
DEC 19...	1300	e390	247	8.2	7.0	0.0	583	11.2	100	81	25	4.6
JAN 09...	1115	e360	248	8.2	8.0	0.0	585	11.9	106	71	22	3.9
FEB 07...	1200	445	265	7.9	8.5	2.0	582	11.4	108	85	26	4.8
MAR 20...	1315	400	259	8.3	15.0	13.0	576	8.8	111	88	27	5.0
APR 10...	1330	550	192	8.2	0.0	8.0	572	9.3	105	65	20	3.7
MAY 08...	1230	1020	204	8.0	12.0	8.5	570	8.4	96	66	20	4.0
JUN 13...	1230	1610	224	8.0	24.0	19.0	584	10.6	150	73	22	4.4
JUL 19...	0800	1690	348	7.7	18.0	18.0	584	6.8	94	100	30	6.6
AUG 14...	1300	148	673	8.3	27.0	25.0	581	9.1	146	180	52	11
SEP 05...	1230	110	556	8.4	23.5	25.5	586	--	--	170	51	10

DATE	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-A-BONATE WATER DIS IT FIELD (MG/L AS HCO3)	CAR-B-BONATE WATER DIS IT FIELD (MG/L AS CO3)	ALKA-C-LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 19...	40	43	2	5.7	175	0	143	49	12	0.80	23	237
NOV 21...	20	32	0.9	3.8	113	0	93	33	6.3	0.40	27	186
DEC 19...	18	31	0.9	3.3	108	0	88	27	6.5	0.30	30	178
JAN 09...	18	34	0.9	3.2	105	0	86	23	6.3	0.30	29	170
FEB 07...	20	33	0.9	3.5	101	0	83	29	7.1	0.30	28	182
MAR 20...	17	28	0.8	4.1	103	0	84	32	4.6	0.30	25	176
APR 10...	13	29	0.7	2.5	82	0	67	19	4.0	0.30	23	131
MAY 08...	14	30	0.7	2.5	75	0	62	26	3.5	0.20	21	140
JUN 13...	14	28	0.7	3.1	72	0	59	34	3.7	0.20	21	156
JUL 19...	27	35	1	4.3	108	0	88	62	7.8	0.30	21	238
AUG 14...	69	45	2	9.0	220	0	185	120	17	0.70	25	451
SEP 05...	48	37	2	7.4	168	5	146	110	12	0.60	28	374

A-Field dissolved bicarbonate, determined by incremental titration method.
B-Field dissolved carbonate, determined by incremental titration method.
C-Field total dissolved alkalinity, determined by incremental titration method.
e-estimated

08251500 RIO GRANDE NEAR LOBATOS, CO--Continued
(Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)
OCT 19...	--	--	--	--	--	--	--	79	--	--	--
NOV 21...	--	--	--	--	--	--	--	98	--	--	--
DEC 19...	--	--	--	--	--	--	--	67	--	--	--
JAN 09...	--	--	--	--	--	--	--	44	--	--	--
FEB 07...	--	--	--	--	--	--	--	46	--	--	--
MAR 20...	--	--	--	--	--	--	--	74	--	--	--
APR 10...	--	--	--	--	--	--	--	130	--	--	--
MAY 08...	<1	--	<1	--	<1	--	220	94	<1	--	<10
JUN 13...	--	--	--	--	--	--	--	150	--	--	--
JUL 19...	--	--	--	--	--	--	--	130	--	--	--
AUG 14...	--	<1	--	<1	--	3	--	26	--	<1	--
SEP 05...	--	--	--	--	--	--	--	21	--	--	--

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
OCT 19...	--	--	12	--	--	--	--	24	8.8	--	--
NOV 21...	--	--	31	--	--	--	--	57	44	--	--
DEC 19...	--	--	12	--	--	--	--	52	e55	--	--
JAN 09...	--	--	11	--	--	--	--	13	e13	--	--
FEB 07...	--	--	23	--	--	--	--	31	37	--	--
MAR 20...	--	--	53	--	--	--	--	57	62	--	--
APR 10...	--	--	18	--	--	--	--	84	125	--	--
MAY 08...	--	20	23	<0.10	--	<1	--	67	18	<1	--
JUN 13...	--	--	22	--	--	--	--	55	239	--	--
JUL 19...	--	--	26	--	--	--	--	45	205	--	--
AUG 14...	4	--	13	--	<0.1	--	5	45	18	--	2
SEP 05...	--	--	20	--	--	--	--	29	8.6	--	--

08251500 RIO GRANDE NEAR LOBATOS, CO--Continued
(Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR)	STRONTIUM, DIS-SOLVED (UG/L AS SR)	VANADIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
OCT 19...	--	--	--	--	--	--	--	--	--	--	--
NOV 21...	--	--	--	--	--	--	--	--	--	--	--
DEC 19...	--	--	--	--	--	--	--	--	--	--	--
JAN 09...	--	--	--	--	--	--	--	--	--	--	--
FEB 07...	--	--	--	--	--	--	--	--	--	--	--
MAR 20...	--	--	--	--	--	--	--	--	--	--	--
APR 10...	--	--	--	--	--	--	--	--	--	--	--
MAY 08...	<1	--	<1	--	150	--	--	<10	--	9.8	--
JUN 13...	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--	--	--
AUG 14...	--	<1	--	<1	--	480	<6	--	12	--	6.4
SEP 05...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	PROP-CHLOR, WATER, DISS, REC (UG/L)	BUTYL-ATE, WATER, DISS, REC (UG/L)	SIMAZINE, WATER, DISS, REC (UG/L)	PRO-METON, WATER, DISS, REC (UG/L)	DEETHYL-ATRA-ZINE, WATER, DISS, REC (UG/L)	CYANA-ZINE, WATER, DISS, REC (UG/L)	FONOFOS, WATER, DISS, REC (UG/L)	ALPHA-BHC, DIS-SOLVED (UG/L)	P,P'DDE, DISSOLV (UG/L)	CHLOR-PYRIFOS, DIS-SOLVED (UG/L)	LINDANE, DIS-SOLVED (UG/L)
APR 10...	1330	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.004
MAY 08...	1230	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.004
JUN 13...	1230	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.004
JUL 19...	0800	<0.007	<0.002	e0.002	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.004
AUG 14...	1300	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.004
SEP 05...	1230	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.004

DATE	DI-ELDRIN, DIS-SOLVED (UG/L)	METO-LACHLOR, WATER DISSOLV (UG/L)	MALA-THION, DIS-SOLVED (UG/L)	PARA-THION, DIS-SOLVED (UG/L)	DI-AZINON, DIS-SOLVED (UG/L)	ATRA-ZINE, WATER, DISS, REC (UG/L)	ALA-CHLOR, WATER, DISS, REC, (UG/L)	ACETO-CHLOR, WATER, FLTRD, REC (UG/L)	METRI-BUZIN, WATER DISSOLV (UG/L)	2,6-DI-ETHYL-ANILINE, WAT FLT 0.7 U GF, REC (UG/L)	TRI-FLUR-ALIN, WAT FLT 0.7 U GF, REC (UG/L)	ETHAL-FLUR-ALIN, WAT FLT 0.7 U GF, REC (UG/L)
APR 10...	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
MAY 08...	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
JUN 13...	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
JUL 19...	<0.001	<0.002	0.009	<0.004	<0.002	<0.001	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
AUG 14...	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
SEP 05...	<0.001	<0.002	<0.005	<0.004	0.008	<0.001	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004

08251500 RIO GRANDE NEAR LOBATOS, CO--Continued
(Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	PHOSPHATE WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BACIL- WATER FLTRD 0.7 U GF, REC (UG/L)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L)	METHYL- PARA- THON WAT FLT 0.7 U GF, REC (UG/L)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L)
APR 10...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
MAY 08...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
JUN 13...	<0.002	<0.007	<0.002	<0.006	0.010	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
JUL 19...	<0.002	<0.007	<0.002	<0.006	e0.001	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
AUG 14...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
SEP 05...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.006	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013

DATE	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L)	METHYL- AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L)
APR 10...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005
MAY 08...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005
JUN 13...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005
JUL 19...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005
AUG 14...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005
SEP 05...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005

DATE	TIME	SAM- PLING DEPTH (FEET)	CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
MAY							
08...	1308	1.65	157	206	8.2	9.0	8.3
08...	1310	1.98	141	207	8.2	9.0	8.3
08...	1312	2.68	125	207	8.1	8.5	8.3
08...	1314	2.80	109	208	8.1	8.5	8.2
08...	1316	2.88	93.0	207	8.1	8.5	8.2
08...	1318	3.15	77.0	207	8.2	8.5	8.2
08...	1320	2.98	61.0	208	8.1	8.5	8.3
08...	1322	2.30	45.0	208	8.2	9.0	8.3
08...	1324	1.82	29.0	208	8.1	9.0	8.4
08...	1326	0.78	13.0	207	8.2	9.0	8.4

TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO

There are 24 tunnels or ditches, all of which are equipped with water-stage recorders and Parshall flumes or sharp-crested weirs. Records provided by Colorado Division of Water Resources. The locations and diversions of 9 selected diversions are given in the following list.

TO PLATTE RIVER BASIN

09010000 Grand River Ditch diverts water from tributaries of Colorado River to La Poudre Pass Creek (tributary to Cache la Poudre River) in NW¹/₄ sec.21, T.6 N., R.75 W., in Platte River basin. Two collection ditches beginning at headgates located in sec.28, T.5 N., R.76 W., and sec.29, T.6 N., R.75 W., intercept all tributaries upstream on each side of the Colorado River and converge at La Poudre Pass.

REVISIONS (WATER YEARS).--WSP 1313: 1912-27.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09010000	0	0	0	0	0	0	0	0	5,110	9,230	5,010	724
Water year 1995, 20,080												

09013000 Alva B. Adams Tunnel diverts water from Grand Lake and Shadow Mountain Lake in NW¹/₄ sec.9, T.3 N., R.75 W., in Colorado River basin, to Lake Estes (Big Thompson River) in sec.30, T.5 N., R.72 W., in Platte River basin. For daily discharge, see elsewhere in this report.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09013000	25,210	25,610	28,130	30,980	24,690	24,570	2,250	16,980	150	22,050	26,760	11,260
Water year 1995, 238,600												

09021500 Berthoud Pass Ditch diverts water from tributaries of Fraser River between headgate in sec.33, T.2 S., R.75 W., and Berthoud Pass, in Colorado River basin, to Hoop Creek (tributary to West Fork Clear Creek) in sec.10, T.3 S., R.75 W., in Platte River basin.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09021500	0	0	0	0	0	0	0	0	0	519	258	38
Water year 1995, 815												

09050590 Harold D. Roberts Tunnel diverts water from Dillon Reservoir (Blue River) in sec.18, T.5 S., R.77 W., in Blue River basin, to North Fork South Platte River (tributary to South Platte, River) in SW¹/₄SW¹/₄ sec.4, T.7 S., R.74 W., in Platte River basin. Figures include a small amount of ground-water inflow between Dillon Reservoir and east portal of tunnel.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09050590	176	3,100	6,910	5,550	5,220	8,420	14,750	4,160	0	0	2,260	1,460
Water year 1995, 52,010												

TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO--Continued

TO ARKANSAS RIVER BASIN

09042000 Hoosier Pass Tunnel diverts water from tributaries of Blue River in Colorado River basin to Montgomery Reservoir (Middle Fork South Platte River) in sec.14, T.8 S., R.78 W., in Platte River basin; this water is again diverted to South Catamount Creek (tributary to Catamount Creek) in SE¹/₄ sec.14, T.13 S., R.69 W., in the Arkansas River basin. Collection conduits extending from the right bank of Crystal Creek (tributary to Spruce Creek) in sec.14, T.7 S., R.78 W., right bank of Spruce Creek in sec.23, T.7 S., R.78 W., right bank of McCullough Gulch in sec.26, T.7 S., R.78 W., right bank of Monte Cristo Creek in SW¹/₄NE¹/₄ sec.2, T.8 S., R.78 W., left bank of Bemrose Creek in SW¹/₄SW¹/₄ sec.6, T.8 S., R.77 W., and intercepting intermediate tributaries, transport diversions to north portal of the tunnel.

REVISIONS (WATER YEARS).--WDR CO-86-1, WDR CO-86-2: 1984, 1985.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09042000	856	0	0	0	0	0	0	0	2,690	59	745	354
Water year 1995, 4,710												

09063700 Homestake Tunnel diverts water from Homestake Lake (Middle Fork Homestake Creek), in sec.17, T.8 S., R.81 W., in Eagle River basin, to Lake Fork in sec.9, T.9 S., R.81 W., in Arkansas River basin. Water is imported to Homestake Lake from tributaries of Homestake Creek by collection conduits that extend from right bank of French Creek in sec.28, T.7 S., R.81 W., and left bank of East Fork Homestake Creek in sec.9, T.8 S., R.81 W., and intercept intermediate tributaries.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09063700	11,320	0	0	0	0	323	15,040	0	0	4,410	3,670	0
Water year 1995, 34,760												

09073000 Twin Lakes Tunnel diverts water from tributaries of Roaring Fork River between headgates (in sec.21, T.11 S., R.83 W., and sec.2, T.11 S., R.83 W.), and west portal of Twin Lakes Tunnel (in sec.24, T.11 S., R.83 W.), in Colorado River basin, to North Fork Lake Creek in sec.22, T.11 S., R.82 W., in Arkansas River basin.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09077160	311	218	94	28	30	34	30	1,420	18,600	74	8,650	2,740
Water year 1995, 32,230												

09077160 Charles H. Bousted Tunnel diverts water from the main stem and tributaries of Fryingpan River (tributary to Roaring Fork River), in Colorado River basin, to Lake Fork in sec.10, T.9 S., R.81 W., in Arkansas River basin. Water is transported to west portal of tunnel (at lat 39°14'44", long 106°31'47"), by a series of collection conduits extending between headgates on right bank of Sawyer Creek at lat 39°15'58", long 106°38'19" and right bank of Fryingpan River at lat 39°14'40", long 106°31'49", and intercepting intermediate tributaries.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09077160	96	131	135	135	108	117	104	1,670	41,500	36,130	9,910	1,230
Water year 1995, 91,260												

09077500 Busk-Ivanhoe Tunnel diverts water from Ivanhoe Lake (Ivanhoe Creek), tributary to Fryingpan River in sec.13, T.9 S., R.82 W., in Roaring Fork River basin, to Busk Creek (tributary to Lake Fork) in sec. 20, T.9 S., R.81 W., in Arkansas River basin.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
09077500	32	28	26	25	21	22	19	18	1,540	2,900	968	405
Water year 1995, 6,000												

TRANSMOUNTAIN DIVERSIONS NO LONGER PUBLISHED

Following is a list of Transmountain Diversions no longer being published in this report. Diversions, in acre-feet, for these sites are available from the State of Colorado, Division of Water Resources.

TO PLATTE RIVER BASIN		TO ARKANSAS RIVER BASIN		TO RIO GRANDE BASIN	
09012000	Eureka Ditch	09061500	Columbine Ditch	09118200	Tarbell Ditch
09022500	Moffat Water Tunnel	09062000	Ewing Ditch	09121000	Tabor Ditch
09046000	Boreas Pass Ditch	09062500	Wurtz Ditch	09341000	Treasure Pass Ditch
09047300	Vidler Tunnel	09115000	Larkspur Ditch	09247000	Don LaFont Ditches 1&2
				09348000	Williams Creek Squaw Pass Ditch
				09351000	Pine River- Weminuche Pass Ditch
				09351500	Weminuche Pass Ditch

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally 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.

Records collected at crest-stage partial-record stations are presented in the following table. Discharge measurements made at low-flow partial-record sites and at miscellaneous sites and for special studies are given in separate tables.

CREST-STAGE PARTIAL-RECORD STATIONS

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device that will register the peak stage occurring 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 name and number	Location and drainage area	Period of record	Water year 1995 maximum		Period of record maximum			
			Date	Gage height ft	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
PLATTE RIVER BASIN								
Lee Gulch at Littleton, CO (06709740)	Lat 39°35'47", long 105°00'57", in SW ¹ /4SW ¹ /4 sec.21, T.5 S., R.68W., Arapahoe County, on right bank 30 ft upstream from culvert under Prince St. and 0.6 mi upstream from mouth in Littleton. Drainage area not determined.	1980-95	5-17-95	11.92	173	^a 1983	16.00	444
Dutch Creek at Platte Canyon Drive, near Littleton, CO (06709910)	Lat 39°36'01", long 105°02'28", in NW ¹ /4SE ¹ /4 sec.19, T.5 S., R.69 W., Arapahoe County, on left bank 150 ft down-stream from bridge on Platte Canyon Road. Drainage area not determined.	1985-95	5-27-95	10.70	670	6-01-91	11.51	1,090
Littles Creek at Littleton, CO (06709995)	Lat 39°36'44", long 105°01'09", in SE ¹ /4SE ¹ /4 sec.17, T.5 S., R.68 W., Arapahoe County, 50 ft upstream from Rapp St., and 150 ft south of W. Alamo St. in Littleton. REVISED RECORDS.--WD CO-89-1: 1988. Drainage area not determined.	1985-95	5-26-95	12.65	395	7-29-90	13.01	503
Weaver Creek near Lakewood, CO (06711305)	Lat 39°38'13", long 105°07'47", in NE ¹ /4NE ¹ /4 sec.8, T.5 S., R.69 W., Jefferson County, 500 ft upstream from Simms St., and 700 ft south of West Quincy Ave. Drainage area not determined.	1982-95	5-20-95	10.98	62	6-02-91	12.50	305
Little Dry Creek near Arapahoe Road, CO (06711515)	Lat 39°35'38", long 104°54'23", in NE ¹ /4NE ¹ /4 sec.29, T.5 S., R.67 W., Arapahoe County, on right bank, 800 ft downstream from Quebec St. (formerly published as Inflow to Holly Reservoir, 1985-86). Drain- age area not determined.	1985-95	5-17-95	8.33	148	^a 1985	10.52	800

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
 MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum		Period of record maximum			
			Date	Gage height ft	Dis-charge (ft ³ /s)	Date	Gage height (ft)	Dis-charge (ft ³ /s)
PLATTE RIVER BASIN--Continued								
Willow Creek at Dry Creek Road, near Englewood, CO (06711535)	Lat 39°34'49", long 104°54'42", in NW ¹ /4NE ¹ /4 sec.32, T.5 S., R.67 W., Arapahoe County, on left bank, upstream wingwall of bridge on Dry Creek Road over Willow Creek. Drainage area not determined.	1985-95	5-17-95	9.85	1,040	^a 1985	14.28	3,470
Little Dry Creek above Englewood, CO (06711555)	Lat 39°38'57", long 104°58'42", in SE ¹ /4NE ¹ /4 sec.3, T.5 S., R.68 W., Arapahoe County, on right bank 250 ft downstream from bridge on Clarkson St., and 800 ft south of Hampton Ave., in Cherry Hills Village. Drainage area not determined. Prior to April 2, 1992, gage was located at a site 300 ft upstream from the present location.	1982-95	5-17-95	8.01	580	^a 1983	15.64	1,060
Harvard Gulch at Colorado Blvd. at Denver, CO (06711570)	Lat 39°40'08", long 104°56'32", in SE ¹ /4SE ¹ /4 sec.25, T.4 S., R.67 W., Denver County, on left bank, 100 ft upstream from S. Jackson St., and 400 ft north of E. Yale Ave. Drainage area not determined.	1979-95	6-04-95	12.67	367	8-04-88	14.02	597
Harvard Gulch below University Blvd. at Denver, CO (06711572)	Lat 39°40'10", long 104°57'33", in SE ¹ /4SE ¹ /4 sec.26, T.4 S., R.68 W., Denver County, 200 ft, downstream from University Blvd., and 600 ft north of East Yale Ave., in Denver. REVISED RECORDS.--WDR-CO-92-1: 1989-91. Drainage area not determined.	1979-95	6-04-95	14.02	708	^a 1983	13.75	780
Harvard Gulch at Harvard Park at Denver, CO (06711575)	Lat 39°40'21", long 104°58'35", in NW ¹ /4SW ¹ /4 sec.26, T.4 S., R.68 W., Denver County, on left bank, 200 ft north of E. Harvard Ave. and 300 ft west of S. Ogden St., directly north of Porter Hospital. Drainage area not determined.	1979-95	6-04-95	14.95	589	^a 1981	15.61	785
Sanderson Gulch tributary at Lakewood, CO (06711600)	Lat 39°41'19", long 105°04'54", in NE ¹ /4NW ¹ /4 sec.23, T.4 S., R.68 W., Jefferson County, 300 ft upstream from S. Wadsworth Blvd., 300 ft south of W. Florida Ave. in Lakewood. Drainage area is 0.38 mi ² .	1969-95	8-18-95	13.53	106	6-06-77	4.91	422
Sanderson Gulch at Mouth at Navajo St. at Denver, CO (06711609)	Lat 39°41'33", long 105°00'12", in SW ¹ /4NE ¹ /4 sec.21, T.4 S., R.68 W., Denver County, 200 ft south of Louisiana Ave., at Navajo St. Drainage area not determined.	1985-95	8-18-95	11.66	517	8-18-95	11.66	517
Weir Gulch upstream from 1st Avenue, at Denver, CO (06711618)	Lat 39°43'03", long 105°02'30", in NW ¹ /4SE ¹ /4 sec.7, T.4 S., R.68 W., Denver County, 250 ft upstream from 1st Ave., in Denver. Drainage area not determined.	1985-95	5-29-95	11.05	272	8-01-91	11.91	523

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
 MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--Continued

465

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height ft	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
PLATTE RIVER BASIN--Continued								
Lakewood Gulch at Denver, CO (06711700)	Lat 39°44'06", long 105°01'54", in SW ¹ /4NW ¹ /4 sec.5, T.4 S., R.68 W., Denver County, 2,000 ft downstream from con- fluence with Dry Gulch, near intersection of Knox Ct., and West 12th Ave., in Denver. Drainage area not determined.	1980-95	5-17-95	13.46	507	^a 1984	17.24	930
Dry Gulch at Denver, CO (06711770)	Lat 39°44'03", long 105°02'20", in SW ¹ /4NE ¹ /4 sec.6, T.4 S., R.68 W., Denver County, 800 ft upstream from confluence with Lakewood Gulch, north of West 10th Ave., at Perry St., in Den- ver. Drainage area not determined.	1980-95	5-17-95	12.99	229	^a 1981	16.00	445
Sloans Lake, south Tributary at Denver, CO (06711820)	Lat 39°44'44", long 105°03'28", in NW ¹ /4SE ¹ /4 sec.36, T.3 S., R.69 W., Jefferson County, 50 ft south of 18th Ave., at Depew St. REVISED RECORDS.-- WDR CO-90-1: 1985-89. Drain- age area not determined.	1985-95	7-19-95	4.67	Not deter- mined	6-01-91	4.00	451
Westerly Creek at Aurora, CO (06714260)	Lat 39°44'43", long 104°52'48", in NW ¹ /4SW ¹ /4 sec.34, T.3 S., R.67 W., Adams County, 50 ft upstream from footbridge. 800 ft upstream from Montview Blvd., and 100 ft east of Boston St., in Aurora. REVISED RECORDS.--WDR CO-90- 1: 1983-85, 1987-88. Drain- age area not determined.	1982-95	6-09-95	11.69	280	^a 1983	14.45	1,530
Lena Gulch at Upper Site, at Golden, CO (06719535)	Lat 39°43'21", long 105°11'46", in NE ¹ /4NW ¹ /4 sec.11, T.4 S., R.70 W., Jefferson County, 60 ft north of US 40, and 2,200 ft southwest of US 6, in Golden. Drainage area not determined.	1985-95	8-18-95	10.19	134	^a 1987	10.92	373
Lena Gulch at Lakewood, (06719560)	Lat 39°44'27", long 105°08'49", in SE ¹ /4SE ¹ /4 sec.31, T.3 S., R.69 W., Jefferson County on right bank 200 ft north of West 15th Drive at Arbutus Prior to July 6, 1988, at site approx. 500 ft downstream (formerly published as Lena Gulch at Alkire at Golden, CO, 1986-87). Drainage area is approximately 9.0 mi ² .	1974-79, 1986-95	5-17-95	12.75	327	7-20-75	14.41	641
Hidden Lake Outflow at 65th Ave near Arvada, CO (06719775)	Lat 39°48'53", long 105°02'03", in SE ¹ /4SE ¹ /4 sec.6, T.3 S., R.68 W., Adams County, 30 ft downstream from 65th Ave. at Lowell Blvd. May 1985 to Aug. 1987 at site 200 ft downstream. Drainage area not determined.	1985-95			Not deter- mined	7-22-91	2.50	22
Little Dry Creek at Westminster, CO (06719840)	Lat 39°49'34", long 105°02'25", in NW ¹ /4NE ¹ /4 sec.6, T.3 S., R.68 W., Adams County, 400 ft downstream from 72nd Ave. in Westminster. REVISED RECORDS.--WDR CO-89-1: 1986. Drainage area not determined.	1982-95	5-17-95	12.32	759	6-01-91	13.09	1,280

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height ft	Dis-charge (ft ³ /s)	Date	Gage height (ft)	Dis-charge (ft ³ /s)
ARKANSAS RIVER BASIN								
Badger Creek above Cals Fork Gulch near Howard, CO (07093705)	Lat 38°45'25", long 105°50'52", in NW ¹ /4SW ¹ /4 sec.12, T.15 S., R.76 W., Park County, 1.0 mi upstream from Cals Fork Gulch, and 21 mi north of Howard. Drainage area is 18.0 mi ² .	1986-95	no peaks during year			^a 1987	6.34	185
Wagon Tongue Creek near Howard, CO (07093710)	Lat 38°44'20", long 105°50'21", in SW ¹ /4SE ¹ /4 sec.13, T.15 S., R.76 W., Park County, 0.1 mi upstream from county road bridge, 0.8 mi upstream from mouth, and 20 mi north of Howard. Drainage area is 7.85 mi ² .	1986-95	no peaks during year			no peaks during year		
Long Gulch near Howard, CO (07093720)	Lat 38°42'32", long 105°50'27", in SE ¹ /4SE ¹ /4 sec.25, T.15 S., R.76 W., Park County, 0.3 mi upstream from mouth, and 18 mi north of Howard. Drainage area is 36.5 square mi ² .	1986-95	no peaks during year			no peaks during year		
Gribbles Creek near Howard, CO (07093745)	Lat 38°39'45", long 105°45'38", in SE ¹ /4SE ¹ /4 sec.16, T.51 N., R.75 W., Fremont County, 1.4 mi upstream from County Road 2, 3.5 mi upstream from mouth, and 14.3 mi north of Howard. Drainage area is 5.76 mi ² .	1986-95	no peaks during year			no peaks during year		
B-Ditch Tributary blw Hwy 115 at Fort Carson, CO (07105770)	Lat 38°45'53", long 104°48'39", in NW ¹ /4NW ¹ /4 sec.8, T.15 S., R.66 W., El Paso County, 200 ft south of Academy Ave, 0.2 mi downstream from Hwy 115, and 3.7 mi upstream from the mouth. Drainage area is 0.49 mi ² .	1993-95	7-23-95	5.33	64	7-23-95	5.33	64
Clover Ditch Tributary at Hwy 115 at Fort Carson, CO (07105810)	Lat 38°45'07", long 104°48'41", in NW ¹ /4NW ¹ /4 sec.17, T.15 S., R.66 W., El Paso County, 3.4 mi south of intersection of Highway 115 and Lake Avenue near Colorado Springs. Drainage area is 1.46 mi ² .	1993-95	5-9-94	4.35	23	5-17-95	6.65	189
			5-17-95	6.65	189			
Big Arroyo near Thatcher, CO (07120620)	Lat 37°33'17", long 104°01'15", in NW ¹ /4NW ¹ /4 sec.4, T.29 S., R.59 W., Las Animas County, 2.4 mi from U.S. Route 350, 4.8 mi east of Thatcher, and 3.2 mi upstream from mouth. Drainage area is 15.5 mi ² .	1983-90 ^b	7-18-95	4.40	751	7-28-85	4.86	1,500
			9-09-95	4.40	751			
Lockwood Canyon Creek near Thatcher, CO (07126390)	Lat 37°29'37", long 103°29'37", in SE ¹ /4NW ¹ /4 sec.30, T.29 S., R.57 W., Las Animas County, on right bank 0.6 mi downstream from Sharp Ranch, 5.3 mi upstream from mouth, and 16 mi southeast of Thatcher. Drainage area is 41.4 mi ² .	1983-93 ^b	7-19-95	8.40	690	7-19-95	8.40	690
Red Rock Canyon Creek at mouth, near Thatcher, CO (07126415)	Lat 37°30'54", long 103°43'25", in NW ¹ /4SE ¹ /4 sec.18, T.29 S., R.56 W., Las Animas County, 200 ft downstream from Welsh Canyon, 0.3 mi upstream from mouth, and 21 mi east of Thatcher. Drainage area is 48.8 mi ² .	1983-90 ^b	5-05-95	7.43	363	5-22-87	10.09	1,530

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

467

MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum		Period of record maximum		
			Date	Gage height ft	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft^{3}/s)

ARKANSAS RIVER BASIN--Continued

Chacuaco Creek near mouth, near Timpas, CO (07126470)	Lat 37°32'38", long 103°37'54", in SE ¹ / ₄ SE ¹ / ₄ sec. 1, T.28 S, R.56W, Las Animas County, at Red Rocks Ranch, 1.5 mi upstream from mouth, 3.3 mi upstream from Bent Canyon Creek, and 21 mi southeast of Timpas. Drainage area is 424 mi ² .	1983-92 ^b 1993-95	9-18-95	6.34	363	7-8-92	16.22	11,800
Bent Canyon Creek at mouth near Timpas, CO (07126480)	Lat 37°35'19", long 103°38'51", in SE ¹ / ₄ SE ¹ / ₄ sec.23, T.28 S., R.65 W., Las Animas County 0.5 mi upstream from mouth, 0.6 mi southwest of Rourk Ranch house, 0.9 mi upstream from Iron Canyon, and 17 mi southeast of Timpas. Drainage area is 56.2 mi ² .	1983-90 ^b 1991-95	7-18-95	6.61	222	8-21-84	12.56	2,640

a-Month or day of occurrence is unknown or not exact.

b-Previously operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
Special study and miscellaneous sites

Discharge measurements in the following table were made at a miscellaneous site. Several measurements of specific conductance and water temperature were obtained and are published elsewhere in this report.

Discharge measurements made at special study and miscellaneous sites during water year 1995

ARKANSAS RIVER BASIN			Date	Discharge (ft ³ /s)
07079195	East Fork Arkansas River at Highway 91, near Leadville, CO	Lat 39°17'09", long 106°16'45", Lake County, Hydrologic Unit 11020001, at culvert on State Highway 91, near Leadville. Drainage area is 35.0 mi ² .	10-06-94	14
			11-10-94	13
			12-16-94	10
			1-13-95	7.1
			2-07-95	5.4
			3-01-95	7.8
			4-06-95	6.1
			5-03-95	5.4
			6-15-95	279
			7-13-95	227
8-31-95	60			

384533104495101 B-DITCH RAIN GAGE BELOW HWY 115, AT FORT CARSON, CO

LOCATION.--Lat 38°45'33, long 104°49'51", in NW¹/₄SW¹/₄ sec.7, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003, approximately 1.0 mile west of intersection of Hwy. 115 and Academy Blvd., near Colorado Springs.

DRAINAGE AREA.--0.49 mi² at B-Ditch Tributary below Hwy 115, at Fort Carson, CO (07105770).

PRECIPITATION RECORDS

PERIOD OF RECORD.--June 1993 to current year (seasonal record only).

GAGE.--Tipping-bucket rain gage and electronic data logger. Elevation of gage is 6,410 ft above sea level, from topographic map.

REMARKS.--Records good. Station is operated in conjunction with partial-record station 07105770, B-Ditch Tributary below Hwy 115, at Fort Carson, CO (published in 'CREST-STAGE PARTIAL-RECORD STATIONS' section of this report).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall , 3.33 inches, May 9, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 2.82 inches, May 29.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.24	.00	---	---	---	---	.00	.00	.00	.21	.00	.00
2	.06	.00	---	---	---	---	.00	.01	.12	.00	.00	.36
3	.15	.04	---	---	---	---	.00	.09	.18	.03	.00	.00
4	.65	.11	---	---	---	---	.00	.00	.09	.09	.02	.00
5	.41	.00	---	---	---	---	.00	.49	.00	.00	.00	.00
6	.03	.00	---	---	---	---	.00	.01	.00	.00	.00	.06
7	.11	.00	---	---	---	---	.00	.33	.00	.00	.00	.08
8	.07	.09	---	---	---	---	.27	.00	.69	.00	.00	.15
9	.00	.01	---	---	---	---	.02	.00	.09	.00	.00	.06
10	.00	.00	---	---	---	---	.27	.00	.10	.00	.00	.18
11	.00	.00	---	---	---	---	.01	.00	.00	.00	.00	.00
12	.00	.01	---	---	---	---	.00	.00	.00	.00	.04	.00
13	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
14	.07	.02	---	---	---	---	.22	.00	.00	.07	.08	.00
15	1.02	---	---	---	---	.00	.00	.00	.07	.01	.00	.00
16	.02	---	---	---	---	.35	.00	.53	.00	.06	.00	.00
17	.45	---	---	---	---	.00	.07	2.49	.55	.17	.00	.00
18	.00	---	---	---	---	.00	.30	.02	.00	.21	.51	.04
19	.00	---	---	---	---	.00	.02	.04	.00	.37	.97	.02
20	.00	---	---	---	---	.00	.58	.07	.00	.11	.00	.08
21	.00	---	---	---	---	.00	.11	.09	.00	.08	.00	.09
22	.00	---	---	---	---	.00	.20	.00	.28	.00	.02	.03
23	.00	---	---	---	---	.00	1.03	.38	.89	.08	.00	.00
24	.00	---	---	---	---	.05	.15	.28	.40	.00	.00	.00
25	.00	---	---	---	---	.05	.07	.57	.00	.00	.00	.00
26	.00	---	---	---	---	.02	.44	.05	.00	.00	.09	.00
27	.00	---	---	---	---	.00	.01	.00	.06	.00	.00	.00
28	.00	---	---	---	---	.27	.00	.24	.31	.00	.00	.00
29	.00	---	---	---	---	.06	.41	2.82	.44	.00	.00	.00
30	.11	---	---	---	---	.01	.13	.68	.06	.01	.00	.00
31	.02	---	---	---	---	.00	---	.01	---	.07	.00	---
TOTAL	4.41	---	---	---	---	---	4.31	9.20	4.33	1.57	1.73	1.15

ARKANSAS RIVER BASIN

384519104483601 CLOVER DITCH TRIBUTARY RAIN GAGE AT HWY 115, AT FORT CARSON, CO

LOCATION.--Lat 38°45'19, long 104°48'36", in NW¹/4SW¹/4 sec.8, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003, 3.2 miles south of intersection of Hwy. 115 and Lake Avenue, near Colorado Springs.

DRAINAGE AREA.--1.46 mi² at Clover Ditch Tributary at Hwy 115, at Fort Carson, CO (07105810).

PRECIPITATION RECORDS

PERIOD OF RECORD.--June 1993 to current year (seasonal record only).

GAGE.--Tipping-bucket rain gage and electronic data logger. Elevation of gage is 5,950 ft above sea level, from topographic map.

REMARKS.--Records good. Station is operated in conjunction with partial-record station 07105810, Clover Ditch Tributary at Hwy 115 at Fort Carson, CO (published in 'CREST-STAGE PARTIAL-RECORD STATIONS' section of this report).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 3.07 inches, May 17, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 3.07 inches, May 17.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.79	.00	---	---	---	---	.00	.00	.00	.24	.00	.00
2	.00	.00	---	---	---	---	.00	.03	.21	.00	.00	.40
3	.25	.00	---	---	---	---	.00	.03	.19	.01	.01	.00
4	.78	.12	---	---	---	---	.00	.00	.12	.07	.02	.00
5	.13	.00	---	---	---	---	.00	.35	.00	.00	.00	.00
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.05
7	.12	.00	---	---	---	---	.00	.19	.00	.00	.00	.05
8	.08	.09	---	---	---	---	.00	.00	.46	.00	.03	.14
9	.00	.00	---	---	---	---	.04	.00	.07	.00	.00	.50
10	.00	.00	---	---	---	---	.01	.00	.07	.00	.00	.21
11	.00	.00	---	---	---	---	.01	.00	.00	.00	.00	.00
12	.00	.00	---	---	---	---	.00	.01	.00	.00	.05	.00
13	.00	.00	---	---	---	---	.00	.00	.00	.13	.00	.00
14	.03	.06	---	---	---	---	.08	.00	.00	.09	.06	.00
15	.78	---	---	---	---	.00	.00	.00	.04	.00	.00	.00
16	.02	---	---	---	---	.53	.00	.54	.00	.03	.00	.00
17	.49	---	---	---	---	.00	.16	3.07	.49	.23	.10	.00
18	.00	---	---	---	---	.00	.19	.04	.01	.19	.33	.04
19	.00	---	---	---	---	.00	.14	.01	.00	.25	.80	.00
20	.00	---	---	---	---	.00	.36	.01	.00	.11	.00	.07
21	.00	---	---	---	---	.00	1.16	.08	.00	.02	.00	.05
22	.00	---	---	---	---	.72	.16	.00	.23	.01	.02	.00
23	.00	---	---	---	---	.00	.01	.25	.77	.07	.00	.00
24	.00	---	---	---	---	.00	.05	.06	.51	.00	.00	.00
25	.00	---	---	---	---	.00	.08	.43	.00	.00	.06	.00
26	.00	---	---	---	---	.00	.39	.09	.00	.09	.52	.00
27	.00	---	---	---	---	.00	.00	.08	.00	.00	.00	.00
28	.00	---	---	---	---	.05	.00	.16	.21	.00	.00	.00
29	.00	---	---	---	---	.04	.30	2.17	.63	.00	.00	.01
30	.10	---	---	---	---	.00	.07	.96	.18	.01	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.02	.00	---
TOTAL	3.57	---	---	---	---	---	3.21	8.56	4.19	1.57	2.00	1.52

373125104001601 BIG ARROYO HILLS RAIN GAGE AT PIPELINE ROAD, NEAR HOUGHTON, CO

LOCATION.--Lat 37°31'25, long 104°00'16", in SE¹/₄ NE¹/₄ sec.16, T.29 S., R.59 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Manuever Site, approximately 100 ft west of Pipeline Road, 200 ft north of Military Service Road 1, 5.9 mi southeast of Thatcher, and 35 mi northeast of Trinidad.

PRECIPITATION RECORDS

PERIOD OF RECORD.--June 1993 to current year (seasonal record).

GAGE.--Tipping-bucket rain gage and electronic data logger. Elevation of gage is 5,560 ft above sea level, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall during period of seasonal operation, 1.87 inch, May 5, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall during period of seasonal operation, 1.87 inch, May 5.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	---	.00	.00	.27	.00	.00
2	.00	.00	---	---	---	---	---	.00	.00	.00	.00	.00
3	.00	.00	---	---	---	---	---	.01	.03	.00	.00	.04
4	.00	.02	---	---	---	---	---	.00	.17	.02	.01	.00
5	.11	.00	---	---	---	---	---	1.87	.00	.00	.00	.00
6	.00	.00	---	---	---	---	---	.00	.00	.00	.00	.06
7	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.13
8	.20	.00	---	---	---	---	.00	.08	.01	.00	.00	.00
9	.00	.00	---	---	---	---	.00	.00	.02	.00	.03	1.21
10	.00	.00	---	---	---	---	.04	.32	.13	.00	.00	.00
11	.00	.06	---	---	---	---	.08	.02	.00	.00	.00	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
13	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
14	.01	.00	---	---	---	---	.00	.00	.00	.07	.00	.00
15	.03	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
16	.00	.00	---	---	---	---	.00	.01	.02	.00	.00	.00
17	.40	.00	---	---	---	---	.07	1.84	.05	.26	.00	.00
18	.00	.00	---	---	---	---	.00	.21	.00	.58	.00	.04
19	.00	.00	---	---	---	---	.05	.00	.00	.81	.10	.00
20	.00	.15	---	---	---	---	.02	.07	.00	.01	.00	.06
21	.00	.00	---	---	---	---	.04	.00	.00	.05	.00	.15
22	.00	.00	---	---	---	---	.31	.00	.00	.05	.00	.00
23	.00	.00	---	---	---	---	.05	.05	.00	.00	.00	.00
24	.00	.00	---	---	---	---	.00	.05	.05	.00	.00	.16
25	.00	.00	---	---	---	---	.00	.00	.05	.00	.50	.01
26	.00	.00	---	---	---	---	.12	.07	.10	.00	.00	.00
27	.00	.00	---	---	---	---	.00	.02	.00	.00	.00	.00
28	.00	.00	---	---	---	---	.00	.28	.63	.00	.00	.02
29	.00	.00	---	---	---	---	.00	1.69	.20	.00	.00	.00
30	.08	.00	---	---	---	---	.19	.30	.75	.00	.00	.00
31	.01	---	---	---	---	---	---	.00	---	.00	.00	---
TOTAL	0.84	0.23	---	---	---	---	---	6.89	2.21	2.12	0.64	1.88

ARKANSAS RIVER BASIN

372721103595601 TAYLOR ARROYO RAIN GAGE AT PIPELINE, NEAR SIMPSON, CO

LOCATION.--Lat 37°27'21", long 103°59'56", in SE¹/4SW¹/4 sec.3, T.30 S., R.59 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Manuever Site, approximately 100 ft south of gas pipeline, 0.8 mi southwest of Taylor Arroyo, 3.4 mi northwest of Rock Crossing, 10 mi southeast of Simpson, and 36 mi northeast of Trinidad.

PRECIPITATION RECORDS

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Weighing-bucket rain gage and tipping-bucket rain gage with electronic data logger. Elevation of gage is 5,220 ft above sea level, from topographic map.

REMARKS.--Records good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 2.63 inches, May 5, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 2.63 inches, May 5.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.08	.00	.00	.00	.55	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.05	.01	.01	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00
4	.01	.00	.00	.00	.00	.00	.00	.00	.37	.02	.14	.00
5	.06	.00	.00	.00	.00	.00	.00	2.63	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.03	.00	.03	.00	.00	.00	.11
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
8	.02	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00
9	.01	.00	.00	.00	.00	.00	.15	.00	.01	.00	.02	.92
10	.00	.00	.00	.00	.00	.00	.22	.00	.03	.00	.00	.01
11	.00	.07	.00	.00	.05	.00	.00	.04	.01	.00	.03	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.01
15	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	---
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	---
17	.04	.00	.00	.02	.00	.00	.08	1.81	.04	.59	.00	---
18	.00	.00	.00	.00	.00	.00	.00	.01	.02	.52	.00	---
19	.00	.00	.00	.00	.00	.00	.07	.00	.00	.11	.07	---
20	.00	.07	.00	.00	.00	.00	.03	.05	.00	.01	.00	---
21	.00	.00	.00	.00	.00	.00	.12	.00	.00	.02	.00	---
22	.00	.00	.00	.00	.00	.00	.49	.00	.00	.02	.00	---
23	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	---
24	.00	.00	.00	.00	.00	.00	.00	.05	.09	.00	.00	---
25	.00	.00	.00	.00	.00	.03	.02	.00	.04	.00	.11	---
26	.00	.00	.00	.00	.00	.13	.04	.22	.05	.00	.00	---
27	.00	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00	---
28	.00	.00	.00	.12	.06	.02	.00	.24	1.38	.00	.00	---
29	.00	.00	.00	.04	---	.03	.00	1.76	.13	.00	.00	---
30	.06	.00	.03	.00	---	.00	.02	.08	.36	.00	.00	---
31	.01	---	.02	.00	---	.00	---	.01	---	.00	.00	---
TOTAL	0.25	0.14	0.05	0.22	0.11	0.32	1.24	7.12	2.62	1.99	0.37	---

372756103513001 LOCKWOOD CANYON RAIN GAGE, NEAR ROCK CROSSING, CO

LOCATION.--Lat 37°27'56", long 103°51'30", in NW¹/₄ NW¹/₄ sec.19, T.30 S., R.58 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Manuever Site, approximately 100 ft north of Military Service Road 4, 5.8 mi east of Rock Crossing, 13.0 mi southeast of Houghton, and 40 mi southwest of La Junta.

PRECIPITATION RECORDS

PERIOD OF RECORD.--May 1993 to current year (seasonal record).

GAGE.--Tipping-bucket rain gage and electronic data logger. Elevation of gage is 5,030 ft above sea level, from topographic map.

REMARKS.--Records good. No record Oct. 1-4.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall during period of seasonal operation, 1.84 inches, May 17, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall during period of seasonal operation, 1.84 inches, May 17.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.00	.00	---	---	---	---	.00	.00	.08	.00	.00
2	---	.00	---	---	---	---	---	.00	.00	.00	.00	.00
3	---	.01	---	---	---	---	---	.02	.07	.00	.00	.00
4	---	.00	---	---	---	---	---	.00	.24	.06	.11	.00
5	.17	.00	---	---	---	---	---	1.17	.00	.00	.00	.00
6	.00	.00	---	---	---	---	---	.17	.00	.00	.00	.12
7	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.05
8	.07	.02	---	---	---	---	.00	.21	.40	.00	.00	.00
9	.00	.00	---	---	---	---	.16	.01	.00	.00	.15	.68
10	.00	.00	---	---	---	---	.08	.15	.20	.00	.00	.01
11	.00	.07	---	---	---	---	.08	.01	.00	.00	.21	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.09	.00
13	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
14	.02	.00	---	---	---	---	.00	.00	.00	.38	.01	.00
15	.03	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
16	.00	.00	---	---	---	---	.00	.00	.00	.02	.00	.00
17	.17	.00	---	---	---	---	.02	1.84	.00	.25	.00	.00
18	.00	.00	---	---	---	---	.00	.00	.02	.09	.00	.01
19	.00	.00	---	---	---	---	.03	.00	.00	.38	.00	.00
20	.00	.21	---	---	---	---	.03	.07	.00	.06	.00	.05
21	.00	.00	---	---	---	---	.11	.00	.03	.16	.00	.12
22	.00	.00	---	---	---	---	.37	.00	.00	.00	.00	.00
23	.00	.00	---	---	---	---	.00	.31	.00	.00	.00	.00
24	.00	.00	---	---	---	---	.00	.10	.02	.00	.00	.24
25	.00	.00	---	---	---	---	.00	.00	.05	.00	.48	.00
26	.00	.00	---	---	---	---	.05	.30	.01	.00	.00	.00
27	.00	.00	---	---	---	---	.00	.00	.00	.00	.10	.00
28	.00	.00	---	---	---	---	.00	.13	.15	.00	.00	.03
29	.00	.00	---	---	---	---	.00	1.67	.14	.00	.00	.00
30	.05	.00	---	---	---	---	.04	.10	.35	.00	.00	.00
31	.00	---	---	---	---	---	---	.01	---	.00	.00	---
TOTAL	---	0.31	---	---	---	---	---	6.27	1.68	1.48	1.15	1.31

ARKANSAS RIVER BASIN

373315103493101 RED ROCK CANYON RAIN GAGE, AT RED ROAD, CO

LOCATION.--Lat 37°33'15", long 103°49'31", in NE¹/₄NE¹/₄ sec.6, T.29 S., R.57 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Manuever Site, approximately 150 ft west of Red Rock Road, 0.4 mi south of military service road, 12.2 mi southeast of Houghton, and 33 mi southwest of La Junta.

PRECIPITATION RECORDS

PERIOD OF RECORD.--October 1993 to current year. Site was part of a hydrologic study 1985-92, data published elsewhere.

GAGE.--Weighing-bucket rain gage. Elevation of gage is 4,860 ft above sea level, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 2.75 inches, July 19, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 1.94 inches, May 17.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.08	.00	.00	.00	.20	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
3	.00	.01	.00	.00	.00	.00	.00	.03	.21	.00	.00	.00
4	.55	.03	.00	.00	.00	.00	.00	.00	.19	.03	.00	.00
5	.12	.01	.00	.00	.00	.00	.00	1.35	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.02
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
8	.05	.00	.00	.00	.00	.00	.00	.12	.43	.00	.00	.01
9	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.12	.11
10	.00	.00	.00	.00	.00	.00	.42	.23	.07	.00	.00	.65
11	.00	.05	.00	.00	.07	.00	.00	.02	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.02	.00	.00	.00	.00	.00	.00	.00	.00	.95	.01	.00
15	.04	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.03	.00	.07	.00	.00
17	.18	.00	.00	.00	.00	.00	.07	1.94	.00	.05	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.01	.57	.00	.15
19	.00	.00	.00	.00	.00	.00	.07	.03	.00	.33	.00	.04
20	.00	.21	.00	.00	.00	.00	.06	.03	.00	.76	.00	.09
21	.00	.00	.00	.00	.00	.00	.09	.01	.11	.11	.00	.18
22	.00	.00	.00	.00	.00	.00	.46	.00	.00	.09	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.06	.01	.00	.00	.06
25	.00	.00	.00	.00	.00	.10	.00	.00	.03	.00	.70	.00
26	.00	.00	.00	.00	.00	.30	.12	.26	.05	.00	.01	.00
27	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.18	.04	.00	.00	.27	.41	.00	.00	.03
29	.00	.00	.00	.04	---	.02	.00	1.59	.12	.00	.00	.00
30	.02	.00	.02	.00	---	.00	.04	.04	.48	.00	.00	.00
31	.00	---	.06	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.98	0.31	0.08	0.32	0.11	0.55	1.43	6.09	2.13	3.17	0.97	1.41

373622103490001 STAGE CANYON RAIN GAGE AT RED ROCK ROAD, CO

LOCATION.--Lat 37°36'22, long 103°49'00", in NE¹/₄SW¹/₄ sec.17, T.28 S., R.57 W., Las Animas County, Hydrologic Unit 11020010, approximately 80 ft east of Red Rock Road, 3.2 mi north of military service road, 12.5 mi east of Houghton, and 30 mi southwest of La Junta.

PRECIPITATION RECORDS

PERIOD OF RECORD.--June 1993 to current year (seasonal record).

GAGE.--Tipping-bucket rain gage and electronic data logger. Elevation of gage is 4,940 ft above sea level, from topographic map.

REMARKS.--Records good. No record June 21 to Aug. 30.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall during period of seasonal record, 2.22 inches, May 17, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall during period of seasonal record, 2.22 inches, May 17.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	---	.00	.00	---	---	.00
2	.00	.00	---	---	---	---	---	.00	.01	---	---	.00
3	.00	.01	---	---	---	---	---	.05	.28	---	---	.06
4	.37	.04	---	---	---	---	---	.01	.13	---	---	.00
5	.14	.00	---	---	---	---	---	1.89	.01	---	---	.00
6	.00	.00	---	---	---	---	---	.02	.00	---	---	.01
7	.00	.00	---	---	---	---	.00	.00	.00	---	---	.04
8	.08	.00	---	---	---	---	.00	.19	.18	---	---	.00
9	.00	.00	---	---	---	---	.04	.00	.01	---	---	.57
10	.00	.00	---	---	---	---	.02	.17	.14	---	---	.00
11	.00	.05	---	---	---	---	.15	.03	.00	---	---	.04
12	.00	.00	---	---	---	---	.00	.00	.00	---	---	.00
13	.00	.00	---	---	---	---	.00	.00	.00	---	---	.00
14	.02	.00	---	---	---	---	.00	.00	.00	---	---	.00
15	.04	.00	---	---	---	---	.00	.00	.00	---	---	.00
16	.00	.00	---	---	---	---	.00	.01	.00	---	---	.00
17	.23	.00	---	---	---	---	.13	2.22	.00	---	---	.00
18	.00	.00	---	---	---	---	.00	.01	.01	---	---	.12
19	.00	.00	---	---	---	---	.06	.01	.00	---	---	.03
20	.00	.18	---	---	---	---	.01	.07	.00	---	---	.09
21	.00	.00	---	---	---	---	.08	.20	---	---	---	.14
22	.00	.00	---	---	---	---	.36	.02	---	---	---	.00
23	.00	.00	---	---	---	---	.01	.06	---	---	---	.00
24	.00	.00	---	---	---	---	.00	.04	---	---	---	.06
25	.00	.00	---	---	---	---	.00	.00	---	---	---	.00
26	.00	.00	---	---	---	---	.11	.25	---	---	---	.00
27	.00	.00	---	---	---	---	.00	.15	---	---	---	.00
28	.00	.00	---	---	---	---	.00	.11	---	---	---	.02
29	.00	.00	---	---	---	---	.00	1.54	---	---	---	.00
30	.02	.00	---	---	---	---	.04	.04	---	---	---	.00
31	.00	---	---	---	---	---	---	.01	---	---	.00	---
TOTAL	0.90	0.28	---	---	---	---	---	7.10	---	---	---	1.18

ARKANSAS RIVER BASIN

373232103555201 BEAR SPRINGS HILLS RAIN GAGE NEAR HOUGHTON, CO

LOCATION.--Lat 37°32'32", long 103°55'52", in SW¹/4SW¹/4 sec.5, T.29 S., R.58 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Manuever Site, approximately 100 ft north of military service road, 5.8 mi east of Pipeline Road, 6.7 mi southeast of Houghton, and 37 mi southwest of La Junta.

PRECIPITATION RECORDS

PERIOD OF RECORD.--October 1993 to current year. Site was part of a hydrologic study 1985-92, data published elsewhere.

GAGE.--Weighing or tipping bucket rain gage. Elevation of gage is 5,200 ft above sea level, from topographic map.

REMARKS.--Records good. Data not published for periods of missing record.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 2.25 inches, May 5, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 2.25 inches, May 5.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.09	.00	.00	.00	.16	.00	.00
2	.00	.00	.00	.00	.00	.02	.00	.02	.02	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.04	.08	.00	.00	.00
4	.17	.05	.00	.00	.00	.00	.00	.00	.14	.10	.00	.00
5	.06	.01	.00	.00	.00	.00	.00	2.25	.00	.00	.00	.00
6	.01	.00	.00	.00	.00	.06	.00	.00	.00	.00	.00	.02
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
8	.08	.00	.00	.00	.00	.00	.00	.21	.03	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.53	.00	.00	.00	.00	.77
10	.00	.00	.00	.00	.01	.00	.27	.32	.17	.00	.00	.00
11	.00	.05	.00	.00	.09	.00	.00	.01	.00	.00	.01	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.01	.00	.00	.00	.00	.00	.00	.00	.00	.65	.00	.00
15	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.02	.01	.00	.00	.00
17	.31	.00	.00	.01	.00	.00	.03	1.66	.01	.29	.00	.00
18	.00	.00	.00	.02	.00	.00	.00	.20	.02	.77	.00	.14
19	.00	.00	.00	.00	.00	.00	.12	.00	.00	1.61	.00	.00
20	.00	.22	.00	.00	.00	.00	.03	.06	.00	.01	.00	.04
21	.00	.00	.00	.00	.00	.00	.10	.00	.00	.04	.00	.19
22	.00	.00	.00	.00	.00	.00	.45	.00	.00	.08	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.05	.02	.00	.00	.06
25	.00	.00	.00	.00	.00	.07	.00	.00	.01	.00	.22	.00
26	.00	.00	.00	.00	.00	.19	.18	.24	.00	.00	.00	.00
27	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.22	.05	.03	.00	.30	.15	.00	.00	.04
29	.00	.00	.00	.05	---	.05	.00	1.60	.15	.00	.00	.00
30	.05	.00	.00	.00	---	.00	.00	.11	.46	.00	.00	.00
31	.00	---	.04	.00	---	.00	---	.01	---	.00	.00	---
TOTAL	0.73	0.33	0.04	0.39	0.15	0.51	1.71	7.17	1.27	3.71	0.23	1.35

373823103465601 BENT CANYON RAIN GAGE ABOVE STAGE CANYON NEAR DELHI, CO

LOCATION.--Lat 37°38'23", long 103°46'56", in SW¹/4NW¹/4 sec.3, T.28 S., R.57 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Manuever Site, approximately 80 ft north of military service road, 6.7 mi west of Rourke Road, 12.9 mi east of Delhi, and 27 mi south of La Junta.

PRECIPITATION RECORDS

PERIOD OF RECORD.--October 1993 to current year. Site was part of a hydrologic study 1985-92, data published elsewhere.

GAGE.--Weighing or tipping bucket rain gage. Elevation of gage is 4,860 ft above sea level, from topographic map.

REMARKS.--Records good. No record Oct. 5 to Dec. 1.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 2.28 inches, May 17, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 2.28 inches, May 17.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	---	---	.01	.00	.06	.00	.00	.00	.10	.00	.00
2	.00	---	.00	.00	.00	.00	.00	.00	.02	.01	.00	.00
3	.00	---	.00	.01	.00	.00	.00	.09	.18	.00	.00	.00
4	.00	---	.00	.00	.00	.00	.00	.00	.16	.00	.00	.00
5	---	---	.00	.00	.00	.00	.00	1.55	.11	.00	.00	.00
6	---	---	.00	.01	.00	.07	.00	.00	.00	.00	.00	.00
7	---	---	.00	.01	.00	.00	.00	.00	.00	.00	.00	.04
8	---	---	.00	.00	.00	.00	.00	.14	.14	.00	.00	.00
9	---	---	.00	.00	.00	.00	.16	.00	.01	.00	.00	.55
10	---	---	.00	.00	.02	.00	.58	.14	.09	.00	.00	.00
11	---	---	.00	.00	.08	.00	.00	.06	.00	.00	.00	.01
12	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	---	---	.00	.00	.00	.00	.00	.00	.00	1.43	.00	.08
15	---	---	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
16	---	---	.00	.00	.00	.00	.00	.01	.00	.18	.00	.00
17	---	---	.00	.00	.00	.00	.10	2.28	.00	.05	.00	.00
18	---	---	.00	.00	.00	.00	.00	.01	.01	1.17	.00	.21
19	---	---	.00	.00	.00	.00	.11	.01	.00	.52	.01	.26
20	---	---	.00	.00	.00	.00	.00	.10	.00	.06	.00	.13
21	---	---	.00	.00	.00	.00	.08	.43	.02	.02	.00	.16
22	---	---	.00	.00	.00	.00	.51	.06	.00	.01	.00	.00
23	---	---	.00	.00	.00	.00	.00	.06	.00	.00	.00	.00
24	---	---	.00	.00	.00	.00	.00	.04	.07	.00	.03	.04
25	---	---	.00	.00	.00	.12	.00	.00	.01	.00	.52	.01
26	---	---	.00	.00	.00	.43	.22	.24	.01	.00	.00	.00
27	---	---	.00	.20	.00	.00	.00	.23	.00	.00	.00	.00
28	---	---	.00	.30	.12	.00	.00	.04	.35	.00	.00	.01
29	---	---	.00	.03	---	.05	.00	1.38	.13	.00	.00	.00
30	---	---	.01	.00	---	.07	.03	.04	.28	.00	.00	.00
31	---	---	.05	.00	---	.00	---	.02	---	.00	.00	---
TOTAL	---	---	---	0.57	0.22	0.80	1.79	6.93	1.59	3.56	0.56	1.50

ARKANSAS RIVER BASIN

3737061033901 IRON CANYON RAIN GAGE, NEAR ROURKE ROAD, CO

LOCATION.--Lat 37°37'06, long 103°39'01", in SE¹/₄SE¹/₄ sec.11, T.28 S., R.56 W., Las Animas County, Hydrologic Unit 11020010, approximately 0.2 mi west of Rourke Road, 1.8 mi north of Rourke Ranch, 15.2 mi southeast of Ayer, and 27 mi southwest of La Junta.

PRECIPITATION RECORDS

PERIOD OF RECORD.--June 1993 to current year (seasonal record). Data not published are missing.

GAGE.--Tipping-bucket rain gage and electronic data logger. Elevation of gage is 4,680 ft above sea level, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall during period of seasonal operation, 2.68 inches, May 17, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall during period of seasonal operation, 2.68 inches, May 17.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	---	.00	.00	.02	.00	.00
2	.00	.00	---	---	---	---	---	.01	.01	.00	.00	.00
3	.00	.04	---	---	---	---	---	.02	.26	.00	.00	.00
4	.41	.10	---	---	---	---	---	.01	.03	.00	.00	.00
5	.02	.00	---	---	---	---	---	.81	.09	.00	.01	.00
6	.00	.00	---	---	---	---	---	.10	.00	.00	.00	.00
7	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.03
8	.01	.05	---	---	---	---	.00	.37	.00	.00	.00	.00
9	.00	.00	---	---	---	---	.37	.00	.02	.00	.04	.37
10	.00	.00	---	---	---	---	.00	.09	.01	.00	.00	.03
11	.00	.04	---	---	---	---	.13	.07	.00	.00	.00	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
13	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
14	.01	.00	---	---	---	---	.00	.00	.00	.11	.00	.00
15	.04	.00	---	---	---	---	.00	.00	.00	.01	.00	.00
16	.00	.00	---	---	---	---	.00	.02	.00	.00	.00	.00
17	.16	.00	---	---	---	---	.07	2.68	.00	.01	.00	.00
18	.00	.00	---	---	---	---	.01	.00	.00	.01	.00	.39
19	.00	.03	---	---	---	---	.08	.01	.00	.02	.00	.08
20	.00	.13	---	---	---	---	.14	.04	.00	.00	.00	.12
21	.00	.00	---	---	---	---	.11	.73	.00	.00	.00	.15
22	.00	.00	---	---	---	---	.32	.00	.00	.01	.00	.02
23	.00	.00	---	---	---	---	.01	.20	.02	.00	.00	.00
24	.00	.00	---	---	---	---	.00	.07	.06	.00	.00	.04
25	.00	.00	---	---	---	---	.00	.00	.01	.00	.14	.00
26	.00	.00	---	---	---	---	.09	.34	.00	.00	.00	.00
27	.00	.00	---	---	---	---	.00	.26	.00	.00	.00	.00
28	.00	.00	---	---	---	---	.00	.04	.66	.00	.00	.04
29	.00	.00	---	---	---	---	.00	1.48	.12	.00	.00	.00
30	.00	.00	---	---	---	---	.03	.05	.19	.00	.00	.02
31	.00	---	---	---	---	---	---	.00	---	.00	.00	---
TOTAL	0.65	0.39	---	---	---	---	---	7.40	1.48	0.19	0.19	1.29

372959104092201 CANTONMENT RAIN GAGE NEAR CEMETERY, AT SIMPSON, CO

LOCATION.--Lat 37°29'59", long 104°09'22", in SE¹/4SE¹/4 sec.19, T.29 S., R.60 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Manuever Site, approximately 200 ft north of military road, 0.1 mi east of Simpson Cemetary, 0.4 mi east of Highway 350, and 32 mi northeast of Trinidad.

PRECIPITATION RECORDS

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

GAGE.--Tipping-bucket rain gage and electronic-data logger. Elevation of gage is 5,630 ft above sea level, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 1.41 inches, Sept. 9, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 1.41 inches, Sept. 9.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.12	.00	.00	.01	.38	.00	.00
2	.00	.00	.00	.00	.00	.02	.00	.03	.02	.00	.00	.00
3	.00	.02	.00	.00	.00	.01	.00	.00	.14	.00	.00	.01
4	.01	.01	.00	.00	.00	.00	.00	.00	.01	.01	.04	.00
5	.29	.00	.00	.00	.00	.00	.00	.30	.01	.00	.00	.00
6	.00	.00	.00	.00	.00	.17	.00	.00	.00	.00	.00	.04
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19
8	.17	.00	.04	.00	.00	.00	.00	.11	.02	.00	.00	.14
9	.00	.00	.00	.00	.00	.00	.20	.00	.01	.00	.61	1.41
10	.00	.00	.00	.00	.02	.00	.42	.31	.01	.00	.00	.05
11	.00	.05	.00	.00	.09	.00	.00	.04	.00	.00	.00	.02
12	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00
15	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.10	.12	.13	.00	.00
17	.32	.00	.00	.03	.00	.02	.02	1.17	.09	.05	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.01	.01	.50	.00	.04
19	.00	.00	.00	.00	.00	.00	.08	.00	.00	.53	.24	.00
20	.00	.13	.00	.00	.00	.00	.02	.08	.00	.00	.00	.06
21	.00	.00	.00	.00	.00	.00	.18	.01	.00	.02	.00	.20
22	.00	.00	.00	.00	.00	.00	.49	.01	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.12	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.04	.16	.00	.00	.32
25	.00	.00	.00	.00	.00	.03	.00	.00	.08	.00	.29	.02
26	.00	.00	.00	.00	.00	.08	.12	.02	.04	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.06	.00	.08	.00	.17	.00	.00	.00	.00
29	.00	.00	.00	.04	---	.14	.00	1.30	.26	.00	.00	.00
30	.14	.00	.09	.02	---	.00	.07	.10	.50	.00	.02	.00
31	.00	---	.01	.00	---	.00	---	.02	---	.00	.00	---
TOTAL	0.95	0.21	0.14	0.15	0.14	0.67	1.60	3.94	1.49	1.62	1.23	2.50

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
06614800 MICHIGAN RIVER NEAR CAMERON PASS, CO (LAT 40 29 46N LONG 105 51 52W)									
OCT 1994					JUN 1995				
27...	1145	0.34	52	3.5	05...	1940	7.0	48	1.5
JAN 1995					20...	1530	31	34	1.0
12...	1225	0.26	54	1.0	27...	1010	22	35	1.5
MAR					JUL				
09...	1030	0.34	51	1.5	18...	1300	22	31	3.0
MAY					AUG				
03...	1450	0.39	54	0.5	22...	1515	6.9	38	10.5
					SEP				
					20...	1245	2.2	42	2.5
06699005 TARRYALL CREEK BELOW ROCK CREEK NEAR JEFFERSON, CO (LAT 39 17 13N LONG 105 41 43W)									
OCT 1994					JUL 1995				
25...	1130	13	137	3.0	06...	1030	411	189	11.5
FEB 1995					26...	1145	268	145	13.5
16...	1210	--	178	0.0	AUG				
APR					30...	1425	89	162	17.0
04...	1350	46	196	6.0	SEP				
MAY					18...	1315	38	147	11.5
15...	1430	70	170	14.5					
JUN									
19...	1330	--	88	4.5					
06709000 PLUM CREEK NEAR SEDALIA, CO (LAT 39 26 18N LONG 104 58 57W)									
OCT 1994					JUN 1995				
31...	1123	3.1	373	9.0	14...	1219	68	77	23.0
JAN 1995					28...	1010	30	280	12.5
06...	1327	7.9	452	2.5	29...	1135	116	66	14.5
FEB					JUL				
17...	1340	8.7	430	8.5	24...	1215	31	275	23.5
MAR					AUG				
13...	1240	7.4	--	13.0	14...	1055	4.1	338	20.5
					SEP				
					11...	1235	10	380	15.5
06709530 PLUM CREEK AT TITAN ROAD NEAR LOUVIERS, CO (LAT 39 30 27N LONG 105 01 23W)									
NOV 1994					JUL 1995				
17...	1125	1.2	461	5.5	24...	1330	23	297	21.5
JAN 1995					SEP				
17...	1427	10	424	0.0	11...	1025	6.4	420	17.0
JUN									
14...	1450	68	246	24.5					
06710245 SOUTH PLATTE RIVER AT UNION AVE AT ENGLEWOOD, CO (LAT 39 37 52N LONG 105 00 50W)									
OCT 1994					APR 1995				
07...	1335	23	598	15.5	03...	1339	48	576	16.0
NOV					JUL				
28...	1427	21	620	1.5	05...	1035	2550	200	16.0
JAN 1995					AUG				
25...	1325	30	501	7.5	16...	1045	384	338	20.5
MAR					SEP				
02...	1428	21	567	8.5	11...	1355	178	590	19.0
06710385 BEAR CREEK ABOVE EVERGREEN, CO (LAT 39 37 58N LONG 105 19 59W)									
OCT 1994					JUN 1995				
19...	1123	17	60	4.0	05...	1250	272	72	7.5
DEC					JUL				
20...	1507	7.9	69	0.0	11...	1130	198	242	17.5
FEB 1995					AUG				
21...	1555	11	80	0.0	24...	1220	68	50	13.0
APR					SEP				
04...	1416	11	95	9.5	25...	1010	36	260	7.5
MAY									
16...	1340	132	69	6.0					

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
06710605 BEAR CREEK ABOVE BEAR CREEK LAKE NEAR MORRISON, CO (LAT 39 39 08N LONG 105 10 23)									
OCT 1994					MAY 1995				
07...	1029	7.8	191	9.0	02...	1215	105	225	6.5
NOV					17...	1230	513	508	6.0
25...	1157	14	246	0.5	23...	1535	385	155	6.0
25...	1159	14	246	0.5	JUN				
JAN 1995					05...	1415	427	141	11.0
19...	1420	0.28	832	5.0	09...	1130	819	149	8.0
FEB					JUL				
24...	1542	0.11	948	10.5	07...	1300	292	107	13.5
MAR					AUG				
23...	1345	2.6	290	11.5	21...	1050	51	153	16.5
APR					SEP				
05...	1245	3.1	330	8.0	25...	1245	28	545	8.5
11...	1300	14	340	3.0					
19...	1355	5.0	458	6.0					
26...	0915	52	290	3.0					
06711545 LITTLE DRY CREEK AT GREENWOOD VILLAGE, CO (LAT 39 37 02N LONG 104 57 08W)									
OCT 1994					MAY 1995				
04...	1310	3.7	1430	15.5	16...	1115	3.6	940	14.5
NOV					JUN				
07...	1155	2.3	2030	10.0	08...	1035	26	791	13.5
JAN 1995					JUL				
11...	1040	1.9	2030	1.5	11...	1415	5.5	1720	22.5
MAR					AUG				
03...	1030	2.2	2080	3.0	21...	1410	5.9	1260	22.0
APR					SEP				
06...	1035	2.2	1970	9.0	26...	1205	4.3	320	11.0
06712000 CHERRY CREEK NEAR FRANKTOWN, CO (LAT 39 21 21N LONG 104 45 46W)									
OCT 1994					JUN 1995				
31...	1120	2.9	210	4.0	16...	1150	6.8	236	18.5
DEC					JUL				
21...	1432	3.0	204	0.5	18...	1031	7.8	234	21.5
FEB 1995					SEP				
17...	1145	6.8	201	0.0	11...	1202	2.5	207	16.5
APR									
27...	1220	15	191	7.5					
06713000 CHERRY CREEK BELOW CHERRY CREEK LAKE, CO (LAT 39 39 12N LONG 104 51 41W)									
DEC 1994					MAY 1995				
08...	1442	2.3	988	2.5	19...	0905	53	1050	12.5
FEB 1995					JUL				
03...	1145	2.3	994	4.5	19...	1240	33	934	19.0
06713300 CHERRY CREEK AT GLENDALE, CO (LAT 39 42 22N LONG 104 56 13W)									
OCT 1994					MAY 1995				
11...	1350	3.1	1330	16.0	11...	0800	37	1120	10.0
NOV					17...	1615	691	202	10.0
15...	1555	12	1080	6.5	19...	1105	69	1060	13.5
DEC					JUN				
16...	1323	1.9	1540	5.0	15...	1020	91	819	17.0
JAN 1995					JUL				
11...	1355	2.7	1360	7.0	12...	1315	54	857	23.5
FEB					AUG				
16...	1247	4.5	2000	5.5	21...	1510	36	763	24.0
MAR					SEP				
14...	--	--	--	--	19...	1115	53	510	14.0
APR									
06...	1315	4.2	1370	14.0					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
		06713500 CHERRY CREEK AT DENVER, CO (LAT 39 44 58N LONG 105 00 08W)							
OCT 1994					MAY 1995				
04...	1135	11	1160	16.5	10...	1600	35	1000	18.5
17...	0945	87	391	10.0	11...	1530	445	1060	10.5
NOV					15...	1415	28	1090	21.0
17...	1030	12	1110	7.5	17...	1405	795	508	6.0
DEC					18...	1430	68	653	16.0
02...	0925	8.4	1160	7.0	19...	1440	69	1060	16.0
02...	1043	8.4	1100	9.5	25...	1345	56	1060	14.5
JAN 1995					JUN				
03...	1415	7.6	1340	7.5	01...	1410	88	390	19.0
09...	1025	7.9	1370	7.5	05...	1300	96	809	17.5
FEB					JUL				
09...	1240	8.0	1320	12.5	07...	1440	43	759	24.5
09...	1245	8.0	1320	12.5	10...	1330	63	796	23.0
MAR					AUG				
06...	1050	28	1380	4.5	31...	1305	28	875	22.0
APR					SEP				
05...	0820	24	937	10.0	19...	1415	69	472	14.0
24...	1410	29	765	16.0					
		06714215 SOUTH PLATTE RIVER AT 64TH AVE. COMMERCE CITY, CO (LAT 39 48 44N LONG 104 57 28W)							
OCT 1994					MAY 1995				
04...	1330	21	1140	17.0	15...	1245	32	800	17.0
NOV					JUN				
09...	1235	14	1390	13.5	07...	1050	2270	306	14.0
JAN 1995					16...	1100	2060	286	16.0
09...	1515	11	1490	9.5	JUL				
23...	1040	--	1720	6.0	25...	1209	1080	890	23.0
MAR					AUG				
03...	1150	--	1950	11.0	25...	1145	680	444	21.0
APR					SEP				
25...	1010	16	1210	12.0	14...	1150	59	813	21.0
		06715000 CLEAR CREEK ABOVE WEST FORK CLEAR CREEK NEAR EMPIRE, CO (LAT 39 45 07N LONG 105 39 41W)							
OCT 1994					MAY 1995				
19...	0925	27	145	3.5	05...	0825	22	232	6.0
NOV					24...	0840	81	219	5.5
15...	1030	11	184	1.0	JUN				
JAN 1995					07...	0745	230	128	7.0
18...	1230	12	186	0.5	22...	0900	865	75	5.0
MAR					JUL				
07...	1035	20	198	1.5	06...	0755	468	85	7.0
APR					AUG				
12...	0945	19	184	1.5	02...	0710	--	75	9.5
					03...	0705	273	76	10.0
					30...	0715	122	97	11.0
		06716100 WEST FORK CLEAR CREEK ABOVE MOUTH NEAR EMPIRE, CO (LAT 39 45 32N LONG 105 39 34W)							
NOV 1994					JUN 1995				
15...	0900	6.7	307	0.0	07...	0920	244	178	4.5
JAN 1995					22...	1035	625	85	5.0
18...	1130	9.5	435	0.0	JUL				
MAR					06...	0920	369	105	5.0
07...	1220	12	406	0.0	AUG				
APR					02...	0947	241	91	7.0
12...	1115	15	456	2.5	03...	0935	209	92	7.0
MAY					30...	0830	80	156	8.5
04...	1350	18	452	9.0					
24...	1010	72	264	3.0					
		06716500 CLEAR CREEK NEAR LAWSON, CO (LAT 39 45 57N LONG 105 37 32W)							
OCT 1994					MAY 1995				
19...	1116	42	212	3.5	05...	1025	41	329	5.5
NOV					22...	1415	132	261	11.0
15...	1200	30	250	0.0	25...	0845	127	236	4.0
JAN 1995					JUN				
19...	1100	24	316	0.0	07...	1155	456	158	7.5
MAR					22...	1300	1230	81	6.5
07...	0930	21	270	0.0	27...	0925	1210	80	5.0
13...	1025	30	279	2.5	JUL				
APR					06...	1027	723	95	7.0
11...	0922	20	70	0.0	AUG				
					02...	1210	486	83	10.5
					30...	1240	198	120	13.0

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
06717400 CHICAGO CREEK BELOW DEVILS CANYON NEAR IDAHO SPRGS, CO (LAT 39 42 58N LONG 105 34 15W)									
OCT 1994					MAY 1995				
19...	1615	6.9	65	4.0	05...	1235	13	100	3.5
NOV					24...	1130	40	98	3.0
15...	1400	3.9	74	0.0	JUN				
JAN 1995					23...	0810	232	38	4.5
19...	1345	4.2	70	0.0	JUL				
MAR					06...	1420	91	44	10.0
06...	1320	3.5	72	0.5	AUG				
APR					03...	1015	36	50	9.0
13...	1112	6.6	77	3.0	31...	0735	22	55	9.0
06718300 CLEAR CREEK ABOVE JOHNSON GULCH NEAR IDAHO SPRINGS, CO (LAT 39 44 47N LONG 105 26 08W)									
OCT 1994					JUN 1995				
19...	1345	60	230	7.0	09...	1410	825	165	7.5
NOV					23...	0840	1730	83	5.5
17...	1030	56	255	0.0	JUL				
MAR 1995					07...	0825	1210	88	7.0
06...	1200	44	309	0.5	AUG				
APR					03...	1225	634	95	11.5
11...	1145	41	316	0.5	31...	0920	261	130	11.0
MAY									
05...	1440	77	345	8.5					
25...	1130	327	258	5.0					
06718550 NORTH CLEAR CREEK ABOVE MOUTH NEAR BLACKHAWK, CO (LAT 39 44 56N LONG 105 23 57W)									
NOV 1994					JUN 1995				
17...	0930	2.0	616	0.5	09...	1105	284	178	6.0
JAN 1995					23...	1157	138	123	9.5
18...	0900	1.2	792	0.0	JUL				
MAR					07...	1130	66	136	11.5
06...	1030	1.4	700	1.0	AUG				
APR					04...	0745	15	239	10.5
13...	1315	5.1	484	10.5	31...	1210	6.6	387	18.0
MAY									
09...	1115	46	389	5.0					
19...	1140	101	217	9.0					
26...	1045	141	284	5.0					
06720820 BIG DRY CREEK AT WESTMINSTER, CO (LAT 39 54 20N LONG 105 02 04W)									
OCT 1994					FEB 1995				
04...	1112	3.6	1100	14.0	28...	0835	1.5	1740	3.0
NOV					JUL				
09...	0847	4.3	1040	4.5	21...	1205	99	358	15.0
JAN 1995					AUG				
10...	1209	0.45	1700	4.0	28...	1430	29	404	19.0
06720990 BIG DRY CREEK AT MOUTH NEAR FORT LUPTON, CO (LAT 40 04 09N LONG 104 49 52W)									
OCT 1994					MAR 1995				
04...	1220	78	680	19.0	23...	1140	46	1160	10.0
DEC					MAY				
16...	1130	31	1270	1.0	04...	1325	44	1160	16.5
JAN 1995					JUL				
10...	1500	23	1350	6.0	13...	1230	91	415	19.5
10...	1520	23	--	--	AUG				
FEB					22...	1150	38	804	22.5
17...	1330	28	1100	2.0					
06721500 NORTH ST. VRAIN CREEK NEAR ALLENS PARK, CO (LAT 40 13 08N LONG 105 31 40W)									
NOV 1994					MAY 1995				
30...	1312	8.0	23	0.0	15...	1441	34	26	11.0
JAN 1995					JUN				
30...	1206	5.2	26	0.0	15...	1955	496	--	--
FEB					JUL				
28...	1456	5.0	25	1.5	24...	1314	176	14	8.5
MAR					AUG				
29...	1219	6.2	25	0.0	31...	1236	64	15	13.0
APR					SEP				
25...	1355	7.7	25	3.0	18...	1232	28	18	9.5

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
		06725450 ST. VRAIN CREEK BELOW LONGMONT, CO (LAT 40 09 29N LONG 105 00 53W)							
NOV 1994	10...	65	1240	11.0	MAY 1995	02...	188	823	9.5
DEC 22...	1215	55	1650	8.5	JUN 22...	1115	1030	153	11.0
JAN 1995	20...	43	1460	6.0	AUG 21...	1310	175	1150	23.5
MAR 13...	1025	42	1450	10.0					
		06726900 BUMMERS GULCH NEAR EL VADO, CO (LAT 40 00 42N LONG 105 20 53W)							
OCT 1994	03...	0.10	643	9.5	JAN 1995	10...	0.21	504	2.5
NOV 08...	0845	0.19	560	4.0	FEB 27...	1020	0.24	520	4.0
		06727500 FOURMILE CREEK AT ORODELL, CO (LAT 40 01 06N LONG 105 19 33W)							
OCT 1994	03...	0.54	288	10.0	JAN 1995	10...	0.55	344	0.0
NOV 08...	1025	0.74	279	3.5	FEB 27...	1145	1.0	384	4.5
		06730200 BOULDER CR AT NORTH 75TH ST NEAR BOULDER, CO (LAT 40 03 06N LONG 105 10 42W)							
OCT 1994	04...	46	562	17.5	JUN 1995	19...	1170	125	15.5
NOV 08...	1237	37	1230	11.5	JUL 21...	1445	494	95	15.5
JAN 1995	10...	44	455	3.5	AUG 28...	1120	127	716	21.0
FEB 27...	1355	33	590	11.0	SEP 27...	1140	107	--	9.5
		06730500 BOULDER CREEK AT MOUTH, NEAR LONGMONT, CO (LAT 40 09 08N LONG 105 00 52W)							
NOV 1994	10...	44	823	9.0	MAY 1995	02...	93	589	10.5
DEC 22...	1345	50	594	5.0	JUN 31...	1305	1110	340	12.5
JAN 1995	20...	49	622	6.0	JUN 22...	1430	1200	174	16.0
MAR 13...	1230	46	778	13.0	JUL 25...	1435	48	429	22.0
					AUG 21...	1540	5.7	990	32.5
		06746095 JOE WRIGHT CREEK ABOVE JOE WRIGHT RESERVOIR, CO (LAT 40 32 24N LONG 105 52 56W)							
OCT 1994	28...	0.53	69	0.0	JUN 1995	06...	1125	38	64
JAN 1995	11...	1.0	77	0.0	JUN 20...	1345	81	36	4.0
MAR 08...	1145	0.44	32	0.0	JUN 26...	1520	128	25	2.5
MAY 02...	1600	0.64	75	0.0	JUL 19...	1030	31	33	6.0
					AUG 23...	1115	15	47	9.0
					SEP 20...	1010	13	47	2.5
		06746110 JOE WRIGHT CREEK BELOW JOE WRIGHT RESERVOIR, CO (LAT 40 33 43N LONG 105 52 09W)							
OCT 1994	27...	0.43	37	1.0	JUN 1995	06...	0915	12	54
JAN 1995	11...	0.24	42	0.0	JUN 20...	1115	--	45	4.0
MAR 08...	1400	0.22	44	0.0	JUN 26...	1600	116	40	3.5
MAY 03...	1015	0.40	55	1.0	JUL 18...	1520	82	36	5.0
					AUG 22...	1145	16	38	7.0
					SEP 19...	1500	60	39	9.5

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
07080980 ST. KEVIN GULCH ABOVE TEMPLE GULCH NEAR LEADVILLE, CO (LAT 39 17 29N LONG 106 22 07W)									
OCT 1994					JUN 1995				
05...	1230	0.30	331	5.0	14...	1730	26	129	5.0
NOV					JUL				
09...	1140	0.40	360	0.0	12...	1330	5.1	100	11.5
MAY 1995					AUG				
04...	1300	0.60	--	0.0	30...	0915	0.90	130	7.0
07091200 ARKANSAS RIVER NEAR NATHROP, CO (LAT 38 39 08N LONG 106 03 02W)									
OCT 1994					JUL 1995				
07...	1400	414	164	10.0	14...	0920	5500	74	10.5
MAR 1995					27...	0945	2580	84	11.5
17...	0900	444	126	6.5	SEP				
MAY					14...	1100	704	150	12.0
02...	1500	512	122	10.0					
JUN									
15...	0830	3300	92	9.5					
07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO (LAT 38 39 25N LONG 105 48 45W)									
OCT 1994					JUL 1995				
12...	1100	0.92	--	--	05...	1403	2.4	434	12.5
12...	1230	0.92	431	9.0	17...	1500	0.82	--	16.5
31...	1112	0.42	--	1.0	31...	1625	0.34	378	21.0
MAR 1995					AUG				
21...	1450	4.0	343	10.0	14...	1230	0.82	--	17.0
APR					28...	1502	0.66	418	23.0
03...	1518	1.2	408	13.0	SEP				
MAY					12...	1300	1.4	421	18.0
11...	1055	5.0	400	7.5	26...	1330	1.2	416	13.0
22...	1108	6.3	407	11.5					
JUN									
15...	1530	1.8	436	19.0					
07093775 BADGER CREEK, LOWER STATION, NEAR HOWARD, CO (LAT 38 28 02N LONG 105 41 34W)									
JAN 1995					JUL 1995				
11...	1040	3.8	1130	2.5	06...	0950	17	732	11.0
MAR					AUG				
08...	1455	7.2	1020	11.0	01...	0740	9.5	867	11.5
APR					14...	0900	8.3	918	14.0
04...	0800	9.2	1040	2.0	29...	0800	7.5	921	12.5
18...	0800	11	950	0.5	SEP				
MAY					12...	1000	6.2	928	10.0
02...	1430	15	750	13.5	27...	0800	6.2	962	7.5
30...	1420	34	659	13.0					
07094500 ARKANSAS RIVER AT PARKDALE, CO (LAT 38 29 14N LONG 105 22 23W)									
OCT 1994					JUN 1995				
12...	1155	467	313	11.0	16...	1210	4650	152	12.0
NOV					21...	1105	5040	144	12.0
30...	1230	625	242	0.5	JUL				
MAR 1995					07...	1030	3420	171	13.5
30...	1125	584	222	4.0	14...	1135	6050	118	13.0
MAY					SEP				
04...	1050	600	222	11.0	14...	0945	916	288	15.0
23...	1210	2200	170	10.0					
07096250 FOURMILE CREEK BELOW CRIPPLE CREEK NEAR VICTOR, CO (LAT 38 39 52N LONG 105 13 37W)									
DEC 1994					JUN 1995				
02...	1030	10	435	0.0	01...	1250	187	292	14.0
FEB 1995					JUL				
10...	1008	3.0	463	0.0	31...	1227	48	359	17.5
MAR					SEP				
31...	1138	9.0	421	7.0	14...	1335	30	376	17.0
MAY									
11...	1120	54	--	10.5					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
07096500 FOURMILE CREEK NEAR CANON CITY, CO (LAT 38 26 11N LONG 105 11 27W)									
OCT 1994					MAR 1995				
05...	1033	15	1080	16.0	22...	1010	10	1390	10.0
NOV					MAY				
29...	0735	9.5	--	2.5	18...	1118	168	621	10.0
JAN 1995					JUN				
10...	1248	15	1230	9.0	20...	1108	188	502	15.5
FEB					AUG				
10...	1235	7.8	1500	8.0	29...	1320	47	912	22.5
07099050 BEAVER CREEK ABOVE UPPER BEAVER CEMETARY NEAR PENROSE, CO (LAT 38 33 42N LONG 105 01 17W)									
OCT 1994					MAY 1995				
21...	1205	25	95	8.0	04...	1445	117	95	9.5
NOV					JUN				
29...	1245	8.8	--	0.5	19...	1110	298	62	12.0
MAR 1995					AUG				
14...	1310	15	100	9.0	16...	1305	25	85	20.0
07099060 BEAVER CREEK ABOVE HIGHWAY 115 NEAR PENROSE, CO (LAT 38 29 21N LONG 104 59 49W)									
OCT 1994					JUN 1995				
24...	1340	0.31	162	10.0	01...	0955	422	111	8.5
NOV					JUL				
29...	1045	1.9	--	1.5	05...	0950	135	79	11.0
MAR 1995					AUG				
15...	1258	18	152	6.0	16...	1005	4.8	185	16.5
APR									
25...	1118	36	133	5.0					
07099215 TURKEY CREEK NEAR FOUNTAIN, CO (LAT 38 36 42N LONG 104 53 39W)									
MAY 1995					JUN 1995				
04...	1245	13	135	7.0	28...	1315	5.8	176	15.0
09...	1530	9.4	123	8.5					
07099230 TURKEY CREEK ABOVE TELLER RES NEAR STONE CITY, CO (LAT 38 27 37N LONG 104 49 19W)									
OCT 1994					JUN 1995				
20...	1115	0.12	--	7.5	01...	1058	171	235	10.5
DEC					21...	1452	24	435	20.5
01...	0915	0.20	887	5.0	SEP				
FEB 1995					05...	1100	0.93	745	17.0
22...	1130	0.20	902	7.0					
MAY									
02...	1030	0.46	849	8.5					
18...	1438	62	294	13.0					
26...	1420	57	274	14.0					
07099235 TURKEY CREEK NEAR STONE CITY, CO (LAT 38 26 27N LONG 104 49 31W)									
OCT 1994					MAY 1995				
20...	1250	0.21	--	12.5	24...	1325	20	774	15.0
DEC					26...	1335	21	759	15.0
01...	1050	0.16	1280	7.5	JUN				
JAN 1995					01...	1235	62	393	12.0
12...	1000	0.17	1350	5.0	21...	1710	11	390	18.5
FEB					23...	1245	10	419	19.5
22...	1320	0.14	1350	11.0	SEP				
MAR					06...	0945	4.1	520	21.0
22...	1230	0.13	1400	12.0					
APR									
25...	0910	0.16	1450	6.0					
07103703 CAMP CREEK AT GARDEN OF THE GODS, CO (LAT 38 52 37N LONG 104 52 20W)									
OCT 1994					JUN 1995				
04...	1215	0.16	300	14.5	15...	1545	17	141	15.5
JAN 1995					JUL				
09...	1305	0.05	235	0.5	06...	1555	11	146	15.0
APR					AUG				
27...	1045	5.5	252	6.0	03...	1155	1.5	232	15.5
MAY					30...	1200	0.88	283	17.0
08...	1230	29	138	6.5					
17...	1415	87	156	5.0					

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, CUBIC FEET PER SECOND	SPE-CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, CUBIC FEET PER SECOND	SPE-CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
07103797 WEST MONUMENT CREEK BELOW RAMPART RESERVOIR, CO (LAT 38 58 30N LONG 104 57 18W)									
NOV 1994					MAY 1995				
10...	1015	8.4	63	7.5	16...	1230	13	67	6.0
DEC					JUN				
13...	1130	12	62	3.5	16...	1005	12	67	7.0
JAN 1995					JUL				
11...	1030	6.2	61	3.0	18...	1110	5.6	81	9.5
FEB					AUG				
21...	1250	6.2	65	4.0	29...	1200	6.8	73	9.0
APR									
07...	1305	8.9	66	5.5					
07103800 WEST MONUMENT CREEK AT AIR FORCE ACADEMY, CO (LAT 38 58 14N LONG 104 54 08W)									
OCT 1994					MAY 1995				
05...	1416	1.0	107	11.0	08...	1230	14	76	3.5
NOV					17...	1610	24	74	3.5
09...	1125	0.83	--	3.5	19...	1100	46	75	5.5
JAN 1995					JUN				
10...	1345	0.82	102	2.5	15...	1115	15	79	9.0
FEB					JUL				
22...	1430	0.79	103	3.5	06...	1130	7.1	82	9.0
MAR					AUG				
27...	1425	0.83	100	3.0	03...	0945	2.8	91	10.0
APR					30...	0830	2.2	99	11.0
28...	1415	3.1	97	5.0					
07103980 COTTONWOOD CREEK AT WOODMEN RD NEAR COLO SPRINGS, CO (LAT 38 56 22N LONG 104 44 26W)									
OCT 1994					APR 1995				
04...	1504	--	--	--	27...	1325	2.0	550	18.0
04...	1505	6.4	422	15.5	MAY				
19...	1555	0.79	655	13.5	30...	1150	38	289	12.5
DEC					JUL				
01...	1410	1.4	536	5.0	03...	1450	8.9	440	19.0
JAN 1995					25...	0955	2.9	510	18.0
09...	1345	1.0	573	3.5	AUG				
FEB					29...	0935	1.4	519	18.5
24...	1420	0.80	620	13.0					
MAR									
27...	1600	0.52	565	8.0					
07103990 COTTONWOOD CREEK AT MOUTH, AT PIKEVIEW, CO (LAT 38 55 41N LONG 104 38 35W)									
OCT 1994					APR 1995				
19...	1510	7.0	665	16.0	28...	1140	6.1	600	17.0
DEC					MAY				
01...	1540	7.2	602	7.0	30...	1345	40	398	12.5
JAN 1995					JUL				
09...	1453	5.1	583	0.5	03...	1335	18	530	18.0
FEB					25...	1205	9.2	662	25.0
24...	1540	4.3	650	13.0	AUG				
MAR					29...	1125	7.6	691	24.0
29...	1310	6.1	1040	5.0					
07105000 BEAR CREEK NEAR COLORADO SPRINGS, CO (LAT 38 49 21N LONG 104 53 17W)									
NOV 1994					MAY 1995				
10...	1255	1.7	81	4.5	17...	1220	22	81	4.0
DEC					30...	1530	35	95	6.5
13...	1335	1.5	81	1.0	JUN				
JAN 1995					13...	1500	15	86	12.5
11...	1320	1.4	82	2.5	JUL				
25...	1300	1.4	83	0.5	18...	1345	7.6	88	11.0
MAR					AUG				
15...	1120	1.5	86	3.5	29...	1410	3.4	94	13.5
APR									
03...	1520	1.6	87	5.5					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
07105490 CHEYENNE CREEK AT EVANS AVE AT COLORADO SPRINGS, CO (LAT 38 47 26N LONG 104 51 49W)									
NOV 1994					MAY 1995				
10...	1440	4.6	96	7.0	17...	1450	108	74	4.0
DEC					JUN				
19...	1530	3.5	107	2.0	13...	1705	83	82	11.0
JAN 1995					JUL				
25...	1415	3.2	114	2.0	18...	1450	24	89	12.5
MAR					AUG				
15...	1300	2.8	103	7.0	29...	1525	8.7	85	17.0
APR									
26...	1550	18	112	3.0					
07105900 JIMMY CAMP CREEK AT FOUNTAIN, CO (LAT 38 41 04N LONG 104 41 17W)									
OCT 1994					JUN 1995				
06...	0953	5.2	1890	12.5	02...	1018	3.6	2100	15.5
NOV					27...	0943	2.5	2480	17.5
15...	1434	2.6	2530	11.0	AUG				
JAN 1995					02...	0858	2.9	2690	15.0
12...	1305	2.0	2440	9.0	SEP				
FEB					06...	0942	1.8	2210	17.5
21...	1422	1.4	2550	14.5					
MAR									
23...	0905	1.2	1750	8.0					
07105920 LITTLE FOUNTAIN CREEK ABOVE KEATON RESERVOIR, NEAR FORT CARSON, CO (LAT 38 40 55N LONG 104 51 30W)									
MAR 1995					JUN 1995				
24...	1035	1.7	82	5.0	06...	0940	44	85	5.0
APR					28...	1005	9.1	85	10.5
27...	1135	9.5	102	3.0	AUG				
MAY					04...	0935	2.6	96	13.5
08...	1455	37	67	5.5	SEP				
31...	1505	124	85	4.0	07...	0950	1.3	134	14.0
07105928 LITTLE FOUNTAIN CREEK NEAR FORT CARSON, CO (LAT 38 40 49N LONG 104 51 06W)									
JAN 1995					MAY 1995				
11...	1445	0.10	180	3.0	03...	1350	39	83	4.5
FEB					JUN				
22...	1350	0.19	158	5.0	28...	1200	8.1	105	12.5
MAR					AUG				
24...	1205	1.2	95	9.0	04...	1048	1.2	140	17.5
APR					SEP				
27...	1005	8.6	92	2.5	07...	1120	0.09	250	14.5
07105945 ROCK CREEK ABOVE FORT CARSON RESERVATION, CO (LAT 38 42 26N LONG 104 50 47W)									
OCT 1994					MAY 1995				
06...	1250	1.1	155	11.0	04...	1305	18	150	5.0
NOV					08...	1130	24	90	4.5
15...	1050	0.55	153	2.0	31...	1300	133	85	4.0
JAN 1995					JUN				
11...	1050	0.57	152	2.0	27...	1150	5.3	120	12.5
FEB					AUG				
21...	1205	0.65	152	4.0	02...	1045	1.8	173	14.5
MAR					SEP				
23...	1150	0.78	148	6.0	06...	1250	0.35	188	17.0
APR									
25...	1010	4.4	145	3.0					
07105950 ROCK CREEK NEAR FORT CARSON, CO (LAT 38 41 49N LONG 104 49 39W)									
NOV 1994					JUN 1995				
15...	0925	0.04	250	8.0	02...	1245	55	110	8.0
MAY 1995					27...	1345	4.3	130	16.0
04...	1400	15	100	6.5	AUG				
08...	1325	22	95	6.5	02...	1240	0.53	166	15.0

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	
07108900		ST. CHARLES RIVER AT VINELAND, CO (LAT 38 14 44N LONG 104 29 09W)								
OCT 1994					MAY 1995					
05...	1430	9.6	2450	22.0	03...	1240	211	396	12.5	
28...	1345	7.9	2470	15.0	18...	1400	444	593	10.5	
NOV					JUN					
28...	1340	9.5	2330	5.5	07...	1515	338	345	18.0	
DEC					08...	1255	358	336	13.5	
28...	1545	9.7	2190	6.0	26...	1400	138	540	21.0	
JAN 1995					JUL					
30...	1145	8.2	2250	4.5	28...	1600	38	1340	29.0	
FEB					AUG					
23...	1130	6.6	2440	9.5	18...	1345	12	1950	27.0	
MAR					SEP					
15...	1330	6.0	2270	16.5	20...	1730	12	2450	17.5	
APR										
25...	1030	85	748	10.5						
07116500		HUERFANO RIVER NEAR BOONE, CO (LAT 38 13 33N LONG 104 15 40W)								
OCT 1994					APR 1995					
24...	1455	11	1880	16.5	28...	1140	22	1140	16.0	
NOV					MAY					
08...	0930	13	2280	7.5	22...	1745	135	1030	20.0	
30...	1230	10	4140	6.0	JUN					
DEC					08...	1515	216	764	15.5	
27...	1230	26	2340	5.5	28...	1215	66	1400	23.5	
JAN 1995					JUL					
13...	1425	25	2450	6.5	26...	1800	14	3970	31.5	
31...	1310	40	1940	5.0	AUG					
FEB					16...	1500	0.59	5080	34.0	
24...	1055	8.7	4210	9.5	SEP					
MAR					19...	1730	14	1690	20.5	
15...	1530	4.0	5320	21.0						
07119500		APISHAPA RIVER NEAR FOWLER, CO (LAT 38 05 28N LONG 103 58 52W)								
JAN 1995					JUN 1995					
19...	1210	3.4	2750	6.5	22...	1400	18	1180	24.0	
FEB					JUL					
15...	1100	3.0	2970	5.5	19...	1315	965	--	19.0	
MAR					26...	1500	18	1620	25.5	
28...	1145	3.4	2790	9.5	AUG					
MAY					16...	1700	8.6	1870	25.0	
10...	1745	22	1170	18.5	SEP					
23...	1645	36	993	13.0	19...	1125	25	1340	18.0	
30...	1300	290	1320	13.5						
07121500		TIMPAS CREEK AT MOUTH NEAR SWINK, CO (LAT 38 00 10N LONG 103 39 18W)								
OCT 1994					MAY 1995					
04...	1415	50	2030	18.0	10...	1455	160	1270	17.0	
25...	1315	86	1650	11.0	23...	1000	138	1330	14.0	
NOV					30...	1830	497	1090	15.5	
22...	1445	33	2940	8.0	JUN					
DEC					09...	1530	160	1210	18.5	
28...	1000	17	3030	6.0	27...	1100	105	1310	24.5	
JAN 1995					JUL					
17...	1200	14	3010	7.0	26...	1030	105	1350	20.0	
FEB					AUG					
17...	1410	13	3040	11.0	08...	1600	75	1730	26.0	
24...	1315	22	2200	14.0	SEP					
MAR					05...	1530	79	1780	24.0	
28...	1430	36	2250	10.0						
APR										
19...	1245	84	1510	7.5						
07124200		PURGATOIRE RIVER AT MADRID, CO (LAT 37 07 46N LONG 104 38 20W)								
OCT 1994					JUN 1995					
27...	1635	26	399	12.5	15...	1200	431	167	14.0	
NOV					20...	1730	615	160	16.5	
29...	1045	5.8	540	0.0	JUL					
JAN 1995					19...	1125	329	196	15.0	
09...	1330	35	431	0.5	AUG					
MAR					04...	0930	98	266	16.5	
13...	1645	22	428	13.0	29...	1815	108	283	20.5	
APR					SEP					
10...	1330	31	374	9.0	15...	0820	72	295	11.0	
MAY										
11...	1030	67	314	13.5						
30...	1840	184	271	14.0						

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS- CHARGE, CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS- CHARGE, CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
07124410 PURGATOIRE RIVER BELOW TRINIDAD LAKE, CO (LAT 37 08 37N LONG 104 32 49W)									
OCT 1994					MAY 1995				
24...	1710	0.08	375	10.0	11...	1620	46	424	11.0
NOV					JUN				
29...	1300	0.00	400	--	15...	1630	237	319	14.5
JAN 1995					AUG				
09...	1715	0.15	444	2.5	09...	1035	303	232	15.5
MAR					29...	1630	290	267	19.0
13...	1510	0.02	429	8.5					
APR									
14...	1320	22	429	8.0					
07126485 PURGATOIRE RIVER AT ROCK CROSSING NEAR TIMPAS, CO (LAT 37 37 03N LONG 103 35 47W)									
OCT 1994					APR 1995				
25...	1205	48	2490	10.5	17...	1400	24	3480	12.5
25...	1215	47	--	--	17...	1405	24	--	--
NOV					MAY				
30...	1420	37	3100	3.0	12...	1600	24	1600	20.5
30...	1435	37	--	--	12...	1610	24	--	--
JAN 1995					JUN				
12...	1435	33	--	--	07...	1600	108	2140	23.0
12...	1440	33	3190	4.5	19...	1400	56	3460	24.0
MAR					AUG				
08...	1130	24	3400	6.5	02...	1310	9.3	1990	28.0
					SEP				
					22...	1350	46	2620	14.5
07128500 PURGATOIRE RIVER NEAR LAS ANIMAS, CO (LAT 38 02 02N LONG 103 12 00W)									
OCT 1994					MAY 1995				
06...	1250	37	1930	15.0	10...	1045	95	--	13.5
11...	1440	24	2680	16.5	16...	1445	9.0	4060	23.5
18...	1425	32	3020	14.5	19...	1200	141	1100	15.5
NOV					23...	1425	40	2650	13.5
01...	1410	40	2790	11.0	31...	1455	2530	907	16.5
15...	1250	16	3150	6.0	JUN				
29...	1035	32	3620	0.5	09...	1200	134	2850	18.0
DEC					16...	1320	63	3940	22.5
13...	1130	37	3860	0.5	21...	1240	44	3590	24.5
JAN 1995					JUL				
10...	1420	42	3630	3.5	11...	1100	57	2030	21.5
31...	1410	38	3380	5.0	18...	1250	25	2720	21.0
FEB					AUG				
10...	1620	31	3790	8.0	02...	1300	9.0	4400	27.0
MAR					15...	1350	7.4	4500	29.5
14...	1450	14	4220	14.0	22...	1455	27	2550	29.0
APR					30...	0955	16	2630	22.5
11...	1730	28	3130	11.0	SEP				
20...	1350	8.4	4500	12.0	14...	1120	111	2750	19.0
07133000 ARKANSAS RIVER AT LAMAR, CO (LAT 38 06 24N LONG 102 37 04W)									
OCT 1994					MAY 1995				
12...	1520	7.6	3710	20.0	17...	1025	23	2810	12.0
NOV					JUN				
16...	1050	41	4120	8.5	08...	1125	156	4010	17.0
DEC					20...	1905	38	2750	24.5
14...	1225	42	4330	6.5	JUL				
JAN 1995					07...	1215	2570	1420	23.0
11...	1115	25	4310	7.0	AUG				
FEB					17...	1515	13	3070	28.0
21...	1620	19	4560	17.5	SEP				
MAR					13...	0910	200	1800	18.5
15...	1100	27	4260	14.0					
APR									
12...	1245	3.6	4210	17.5					
07134100 BIG SANDY CREEK NEAR LAMAR, CO (LAT 38 06 51N LONG 102 29 00W)									
AUG 1995					SEP 1995				
18...	1205	12	3390	24.0	13...	0755	16	3860	14.0

MISCELLANEOUS STATION ANALYSES--Continued

DATE	TIME	DIS-CHARGE, CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	DIS-CHARGE, CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
07134180 ARKANSAS RIVER NEAR GRANADA, CO (LAT 38 05 44N LONG 102 18 37W)									
OCT 1994					APR 1995				
13...	0830	37	4330	10.0	12...	0950	6.0	5220	11.0
NOV					MAY				
16...	0845	49	4280	6.0	17...	0835	5.2	5200	12.0
DEC					JUN				
14...	0900	110	4290	3.5	20...	1645	10	3970	24.5
JAN 1995					JUL				
11...	0910	107	4260	4.0	07...	1005	2310	1860	21.5
FEB					AUG				
21...	1425	98	4310	15.0	16...	1450	54	3660	27.5
MAR					SEP				
15...	0850	19	4820	10.0	12...	1535	381	2120	23.0
07134990 WILD HORSE CREEK ABOVE HOLLY, CO (LAT 38 03 29N LONG 102 08 19W)									
JUN 1995					AUG 1995				
30...	1035	9.3	3180	18.0	16...	1645	4.9	3510	28.0
JUL					SEP				
19...	1100	9.7	2800	23.0	12...	1335	6.9	2730	23.0
08217500 RIO GRANDE AT WAGON WHEEL GAP, CO (LAT 37 46 01N LONG 106 49 51W)									
OCT 1994					APR 1995				
13...	1245	340	84	7.5	20...	1510	306	130	6.0
NOV					MAY				
30...	1150	125	113	0.0	24...	1520	2260	68	7.5
JAN 1995					JUN				
10...	1400	118	116	0.0	22...	1310	2970	48	7.5
MAR					AUG				
03...	1045	142	126	0.0	02...	1600	1430	56	12.5
393109104464500 CHERRY CREEK NEAR PARKER, CO (LAT 39 31 09N LONG 104 46 45W)									
OCT 1994					MAY 1995				
31...	1110	1.1	616	8.5	01...	1110	16	417	10.5
NOV					12...	0945	10	453	11.0
17...	1310	0.85	596	7.5	16...	0950	6.7	508	10.5
JAN 1995					18...	1115	136	197	10.0
18...	1208	1.6	566	3.5	22...	1215	27	355	14.0
MAR					JUN				
22...	1420	5.4	483	15.0	02...	1132	24	363	20.0
APR					08...	1225	22	385	14.0
05...	1425	7.0	482	14.5	JUL				
11...	1050	10	989	5.0	12...	1115	7.2	410	23.0
17...	1040	12	422	7.0	AUG				
24...	1130	13	418	9.0	21...	1210	1.0	640	18.5
					SEP				
					26...	1310	1.1	198	9.0
394115105525600 CLEAR CREEK NEAR LOVELAND PASS, CO (LAT 39 41 15N LONG 105 52 56W)									
JUN 1995					AUG 1995				
19...	1700	110	74	2.0	02...	1252	28	68	10.0
JUL					17...	0855	17	79	6.0
13...	1340	86	55	4.0	22...	0855	--	--	--
19...	1140	67	60	5.0					
394839104570300 SAND CREEK AT MOUTH NEAR COMMERCE CITY, CO (LAT 39 48 39N LONG 104 57 03W)									
OCT 1994					MAY 1995				
04...	1437	21	1360	17.0	15...	1100	52	956	15.0
NOV					JUN				
09...	1340	20	1520	9.5	16...	0935	58	880	17.0
JAN 1995					AUG				
09...	1520	16	1760	8.5	25...	1025	95	624	21.0
FEB					SEP				
28...	1405	21	1970	4.5	14...	1320	148	855	19.5
APR									
12...	1250	25	1830	10.5					

MISCELLANEOUS WATER-QUALITY IN THE RIO GRANDE BASIN

374752105300801 MEDANO CREEK NEAR MOSCA, CO
(Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT												
17...	1315	4.5	84	7.8	0.0	1.0	551	10.0	98	37	10	2.9
NOV												
23...	1000	2.1	98	7.4	-7.5	0.0	565	10.4	96	44	12	3.4
DEC												
19...	1230	2.4	98	7.5	0.0	0.0	556	10.5	99	41	11	3.2
JAN												
11...	1015	2.4	99	8.1	0.0	0.0	549	10.7	102	40	11	3.1
FEB												
08...	0930	2.0	102	7.8	-1.5	0.5	558	10.5	99	41	11	3.2
MAR												
22...	0915	6.2	75	7.6	2.5	1.5	552	10.0	99	32	8.7	2.6
APR												
12...	0945	8.9	74	7.4	0.0	0.5	560	10.4	98	30	7.9	2.4
MAY												
10...	0945	21	70	7.4	4.5	3.5	558	9.7	100	28	7.5	2.3
JUN												
15...	1130	99	42	7.5	18.5	6.5	560	8.6	95	17	4.6	1.3
JUL												
20...	0945	27	53	7.3	13.5	7.5	563	9.0	102	22	6.2	1.7
AUG												
16...	1000	10	74	7.5	12.0	9.5	560	8.4	100	35	10	2.3
SEP												
06...	1030	5.0	84	7.6	12.5	11.0	564	7.9	97	37	10	2.8

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR- ^A BONATE WATER DIS IT FIELD (MG/L AS HCO3)	CAR- ^B BONATE WATER DIS IT FIELD (MG/L AS CO3)	ALKA- ^C LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT												
17...	2.6	13	0.2	0.80	48	0	39	2.9	0.60	0.20	11	47
NOV												
23...	3.1	13	0.2	0.80	53	0	44	3.8	0.60	0.20	13	57
DEC												
19...	2.9	13	0.2	0.70	54	0	45	3.4	0.50	0.20	12	65
JAN												
11...	2.9	13	0.2	0.70	57	0	47	3.5	0.60	0.20	12	64
FEB												
08...	2.9	13	0.2	0.70	56	0	46	2.7	0.60	0.20	12	70
MAR												
22...	2.5	14	0.2	0.90	40	0	33	2.9	0.60	0.20	12	56
APR												
12...	2.4	15	0.2	0.70	35	0	29	2.8	1.0	0.20	12	53
MAY												
10...	2.5	16	0.2	0.60	37	0	30	2.6	0.70	0.20	13	68
JUN												
15...	1.6	17	0.2	0.60	21	0	17	2.1	0.30	0.10	10	41
JUL												
20...	1.8	14	0.2	0.50	29	e0	24	1.9	0.40	0.20	10	44
AUG												
16...	2.3	12	0.2	0.70	39	0	32	2.3	0.40	0.20	11	48
SEP												
06...	2.5	13	0.2	0.90	45	0	37	2.6	0.30	0.20	13	59

A-Field dissolved bicarbonate, determined by incremental titration method.

B-Field dissolved carbonate, determined by incremental titration method.

C-Field total dissolved alkalinity, determined by incremental titration method.

e-estimated

MISCELLANEOUS WATER-QUALITY IN THE RIO GRANDE BASIN

374752105300801 MEDANO CREEK NEAR MOSCA, CO
(Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 17...	--	--	--	--	--	--	--	--	180	--	--
NOV 23...	--	--	--	--	--	--	--	--	120	--	--
DEC 19...	--	--	--	--	--	--	--	--	95	--	--
JAN 11...	--	--	--	--	--	--	--	--	89	--	--
FEB 08...	--	--	--	--	--	--	--	--	87	--	--
MAR 22...	--	--	--	--	--	--	--	--	120	--	--
APR 12...	--	--	--	--	--	--	--	--	140	--	--
MAY 10...	--	<1	--	<1	--	2	--	1000	240	<1	--
JUN 15...	--	--	--	--	--	--	--	--	210	--	--
JUL 20...	--	--	--	--	--	--	--	--	95	--	--
AUG 16...	<1	--	<1	--	<1	--	<1	--	110	--	<1
SEP 06...	--	--	--	--	--	--	--	--	160	--	--

DATE	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 17...	--	--	--	12	--	--	--	--	4	0.05	--
NOV 23...	--	--	--	13	--	--	--	--	15	0.08	--
DEC 19...	--	--	--	13	--	--	--	--	11	0.07	--
JAN 11...	--	--	--	12	--	--	--	--	9	0.06	--
FEB 08...	--	--	--	10	--	--	--	--	8	0.04	--
MAR 22...	--	--	--	7	--	--	--	--	19	0.32	--
APR 12...	--	--	--	7	--	--	--	--	53	1.3	--
M 10...	<10	--	20	8	<0.10	--	2	--	9	0.51	<1
JUN 15...	--	--	--	11	--	--	--	--	618	165	--
JUL 20...	--	--	--	7	--	--	--	--	88	6.4	--
AUG 16...	--	<4	--	13	--	<0.1	--	<1	5	0.14	--
SEP 06...	--	--	--	13	--	--	--	--	17	0.23	--

MISCELLANEOUS WATER-QUALITY IN THE RIO GRANDE BASIN

374752105300801 MEDANO CREEK NEAR MOSCA, CO
(Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 17...	--	--	--	--	--	--	--	--	--	--	--
NOV 23...	--	--	--	--	--	--	--	--	--	--	--
DEC 19...	--	--	--	--	--	--	--	--	--	--	--
JAN 11...	--	--	--	--	--	--	--	--	--	--	--
FEB 08...	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	--	--	--	--	--	--	--	--	--	--	--
APR 12...	--	--	--	--	--	--	--	--	--	--	--
MAY 10...	--	<1	--	<1	--	40	--	--	20	--	5.9
JUN 15...	--	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--	--
AUG 16...	<1	--	<1	--	<1	--	43	<6	--	2	--
SEP 06...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L)	BUTYL- ATE, WATER, DISS, REC (UG/L)	SI- MAZINE, WATER, DISS, REC (UG/L)	PRO- METON, WATER, DISS, REC (UG/L)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L)	CYANA- ZINE, WATER, DISS, REC (UG/L)	FONOFOS WATER, DISS, REC (UG/L)	ALPHA BHC DIS- SOLVED (UG/L)	P,P' DDE DISSOLV (UG/L)	CHLOR- PYRIFOS DIS- SOLVED (UG/L)	LINDANE DIS- SOLVED (UG/L)
JUN 15...	1130	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.004
JUL 20...	0945	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.004
AUG 16...	1000	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.004
SEP 06...	1030	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	e0.001	<0.004	<0.004

DATE	DI- ELDRIN DIS- SOLVED (UG/L)	METO- LACHLOR WATER DISSOLV (UG/L)	MALA- THION, DIS- SOLVED (UG/L)	PARA- THION, DIS- SOLVED (UG/L)	DI- AZINON, DIS- SOLVED (UG/L)	ATRA- ZINE, WATER, DISS, REC (UG/L)	ALA- CHLOR, WATER, DISS, REC (UG/L)	ACETO- CHLOR, WATER FLTRD REC (UG/L)	METRI- BUZIN WATER DISSOLV (UG/L)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)
JUN 15...	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
JUL 20...	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
AUG 16...	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
SEP 06...	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L)
JUN 15...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
JUL 20...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
AUG 16...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
SEP 06...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013

MISCELLANEOUS WATER-QUALITY IN THE RIO GRANDE BASIN

374752105300801 MEDANO CREEK NEAR MOSCA, CO
 (Rio Grande National Water-Quality Assessment Program station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L)	PENDI-METH-ALIN WAT FLT FLTRD 0.7 U GF, REC (UG/L)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L)	METHYL-AZIN-PHOS WAT FLT GF, REC (UG/L)	PER-METHRIN CIS WAT FLT GF, REC (UG/L)
JUN 15...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005
JUL 20...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005
AUG 16...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005
SEP 06...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005

EL PASO COUNTY

384056104415601 - SC01606505CCB - FOUNTAIN NO. 3

LOCATION.--Lat 38°40'56", long 104°41'56" in NW¹/₄SW¹/₄ sec.5, T.16 S., R.65 W., El Paso County, Hydrologic Unit 11020003.

AQUIFER.--Fountain Creek Alluvial Aquifer.

WELL CHARACTERISTICS.--Municipal well, diameter 16 in, depth 53 ft, screened 38 to 53 ft.

DATUM.--Elevation of land-surface datum is 5,540 ft above sea level, from topographic map.

PERIOD OF RECORD.--March 1985 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR 17...	0910	1070	7.0	12.5	<0.01	1.8	0.03	0.02
SEP 28...	0845	1280	6.8	12.5	<0.01	2.8	0.04	0.02

384108104420701 - SC01606506DAA - FOUNTAIN NO. 2

LOCATION.--Lat 38°41'08", long 104°42'07", NE¹/₄NE¹/₄SE¹/₄ sec.6, T.16 S., R.65 W., in El Paso County, Hydrologic Unit 11020003.

AQUIFER.--Fountain Creek Alluvial Aquifer.

WELL CHARACTERISTICS.--Municipal well, diameter 16 in, depth 57 ft, screened 42 to 57 ft.

DATUM.--Elevation of land-surface datum is 5,550 ft above sea level, from topographic map.

PERIOD OF RECORD.--March 1985 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR 17...	0935	1300	7.2	13.5	<0.01	3.5	<0.015	0.02
SEP 28...	0905	1300	7.2	12.5	<0.01	4.2	<0.015	0.02

384313104431801 - SC01506625AAD - WIDEFIELD NO. 14

LOCATION.--Lat 38°43'13", long 104°43'18", in SE¹/₄NE¹/₄NE¹/₄ sec.25, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003.

AQUIFER.--Widefield Aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Municipal well, diameter 18 in, depth 48 ft, screened 37 to 48 ft.

DATUM.--Elevation of land-surface datum is 5,620 ft above sea level, from topographic map.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR 17...	1015	1340	7.0	14.0	<0.01	9.2	<0.015	0.03

EL PASO COUNTY--Continued

384407104434801 - SC01506624BAD1 WIDEFIELD NO. 4

LOCATION.--Lat 38°44'07", long 104°43'48", in SE¹/₄NE¹/₄NE¹/₄ sec.24, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003.

AQUIFER.--Widefield Aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Municipal well, diameter 16 in, depth 71 ft, screened 41 to 71 ft.

DATUM.--Elevation of land-surface datum is 5,680.7 ft above sea level.

PERIOD OF RECORD.--February 1981 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR 17...	1100	622	6.9	13.5	0.01	5.7	0.02	0.01
SEP 28...	1020	647	7.6	12.5	<0.01	6.5	<0.015	0.02

384433104440702 - SC01506613CBD2 - U-14

LOCATION.--Lat 38°44'33", long 104°44'07", in SW¹/₄NW¹/₄SE¹/₄ sec.13, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003.

AQUIFER.--Widefield Aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Monitor well, diameter 2 in, depth 47 ft, screened 43 to 46 ft.

DATUM.--Elevation of land-surface datum is 5,701 ft above sea level.

PERIOD OF RECORD.--October 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
FEB 02...	1350	600	6.9	14.0	<0.01	5.3	<0.015	0.02
AUG 14...	1450	644	6.9	13.0	<0.01	5.6	<0.015	0.02

384458104442601 - SC01506614AAD - SECURITY NO. 2

LOCATION.--Lat 38°44'58", long 104°44'26", in SE¹/₄NE¹/₄NE¹/₄ sec.14, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003.

AQUIFER.--Widefield Aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Municipal well, diameter 24 in, depth 78 ft, screened 43 to 78 ft.

DATUM.--Elevation of land-surface datum is 5,717 ft above sea level.

PERIOD OF RECORD.--February 1981 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR 17...	1140	545	7.0	13.5	<0.01	7.6	<0.015	0.01
SEP 28...	1110	503	7.3	12.5	<0.01	8.8	<0.015	0.02

EL PASO COUNTY--Continued

384535104450801 - SC01506611BCD2 VENETUCCI NO. 3

LOCATION.--Lat 38°45'35", long 104°45'08", in SE¹/₄SW¹/₄NW¹/₄ sec.11, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003.

AQUIFER.--Widefield Aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Irrigation well, diameter 24 in, depth 80 ft, screening unknown.

DATUM.--Elevation of land-surface datum is 5,750.0 ft above sea level.

PERIOD OF RECORD.--February 1981 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR 17...	1255	425	7.2	13.0	<0.01	7.9	<0.015	0.06
SEP 28...	1210	421	7.5	13.0	<0.01	8.1	<0.015	0.06

384604104451502 - SC01506602CCC2 U-9

LOCATION.--Lat 38°46'04", long 104°45'15", in SW¹/₄SW¹/₄SW¹/₄ sec.2, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003.

AQUIFER.--Widefield Aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Monitor well, diameter 2 in, depth 55 ft, screened 51 to 53 ft.

DATUM.--Elevation of land-surface datum is 5,774 ft above sea level.

PERIOD OF RECORD.--October 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
FEB 02...	1449	36.95	434	7.1	14.0	<0.01	7.1	<0.015	0.05
AUG 14...	1335	35.68	458	7.2	13.0	<0.01	7.3	<0.015	0.05

384610104453501 - SC01506603DDB SECURITY NO. 14

LOCATION.--Lat 38°46'10", long 104°45'35", in NW¹/₄SE¹/₄SE¹/₄ sec.14, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003.

AQUIFER.--Widefield Aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Municipal well, diameter 24 in, depth 80 ft, screened 39 to 80 ft.

DATUM.--Elevation of land-surface datum is 5,779.2 ft above sea level.

PERIOD OF RECORD.--February 1981 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR 17...	1220	660	7.3	13.5	<0.01	7.3	<0.015	0.04
SEP 28...	1140	640	7.3	12.5	<0.01	7.4	<0.015	0.04

EL PASO COUNTY--Continued

384617104455901 - SC01506603CAD STRATMOOR HILLS NO. 4

LOCATION.--Lat 38°46'17", long 104°45'59", in SE¹/₄NE¹/₄SW¹/₄ sec.3, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003.

AQUIFER.--Widfield Aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Municipal well, diameter 16 in, depth 49 ft, screened 29 to 49 ft.

DATUM.--Elevation of land-surface datum is 5,775.4 ft above sea level.

PERIOD OF RECORD.--February 1981 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR 17...	1345	1040	7.2	13.0	<0.01	6.6	<0.015	0.01
SEP 28...	1320	1050	7.2	13.0	<0.01	6.7	<0.015	0.02

384628104450801 - SC01506602BDC - TH-23

LOCATION.--Lat 38°46'28", long 104°45'08", in NW¹/₄SE¹/₄SW¹/₄ sec.2, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003.

AQUIFER.--Widfield aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Monitor well, diameter 2 in, depth 89 ft, screened 73 to 88 ft.

DATUM.--Elevation of land-surface datum is 5,849 ft above sea level.

PERIOD OF RECORD.--October 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
FEB 02...	1636	549	--	14.0	<0.01	7.8	<0.015	0.15
SEP 15...	1040	583	7.1	15.0	<0.01	8.8	<0.015	0.11

384639104461401 - SC01506603BAC1 - MARS GAS

LOCATION.--Lat 38°46'39", long 104°46'14", in SW¹/₄NE¹/₄NW¹/₄ sec.3, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003.

AQUIFER.--Fountain Creek Alluvial Aquifer.

WELL CHARACTERISTICS.--Commercial well, diameter 6 in, depth 85 ft, screened 50 to 85 ft.

DATUM.--Elevation of land-surface datum is 5,820 ft above sea level, from topographic map.

PERIOD OF RECORD.--March 1985 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR 17...	1425	920	7.2	13.0	<0.01	3.9	<0.015	0.01
SEP 28...	1245	1040	7.2	13.0	<0.01	8.3	<0.015	0.02

EL PASO COUNTY--Continued

384653104451901 - SC01406602BBB - TH-18

LOCATION.--Lat 38°46'53", long 104°45'19", in NW¹/₄NW¹/₄NW¹/₄ sec.2. T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003.

AQUIFER.--Widefield aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Monitor well, diameter 2 in, depth 122 ft, screened 96 to 122 ft.

DATUM.--Elevation of land-surface datum is 5,890 ft above sea level.

PERIOD OF RECORD.--October 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
FEB 02...	1553	94.35	554	6.9	15.0	<0.01	7.7	<0.015	0.07
AUG 14...	1210	93.70	555	6.9	14.5	<0.01	3.4	<0.015	0.03

384718104463701 - SC01406633DAA - BARNES WELL

LOCATION.--Lat 38°47'18", long 104°46'37", in NE¹/₄NE¹/₄SE¹/₄ sec.33. T.14 S., R.66 W., El Paso County, Hydrologic Unit 11020003.

AQUIFER.--Fountain Creek Alluvial Aquifer.

WELL CHARACTERISTICS.--Domestic well, diameter 6 in, depth 72 ft, screening unknown.

DATUM.--Elevation of land-surface datum is 5,830 ft above sea level, from topographic map.

PERIOD OF RECORD.--March 1985 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR 17...	1445	1150	7.2	14.0	<0.01	9.7	<0.015	<0.01
SEP 28...	1350	1320	7.3	13.5	<0.01	11	<0.015	0.02

385323104224001 - SC01306230ACC1 - I WELL

LOCATION.--Lat 38°53'23", long 104°22'40", in SW¹/₄SW¹/₄NE¹/₄ sec.30, T.13 S., R.62 W., El Paso County, Hydrologic Unit 11020004.

AQUIFER.--Black Squirrel Alluvial Aquifer.

WELL CHARACTERISTICS.--Public-supply well, diameter 16 in, depth 176 ft, screened 116 to 176 ft.

DATUM.--Elevation of land-surface datum is 6,160 ft above sea level, from topographic map

PERIOD OF RECORD.--February 1985 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
MAR 17...	1625	404	7.2	12.5	<0.01	8.2	<0.015	0.03
SEP 28...	1550	395	--	12.0	<0.01	8.5	<0.015	0.04

INDEX

	Page		Page
Access to WATSTORE DATA	22	Badger Creek,	
Accuracy of the records, explanation of	18,19	lower station near Howard,	
Acre-foot, definition of	23	surface-water record	216
Adenosine triphosphate, definition of	23	water-quality record	217-218,485
Alamosa River		upper station, near Howard,	
above Jasper	428	surface-water record	213
above Terrace Reservoir,		water-quality record	214-215,485
water-quality records	432-436	Bear Creek,	
above Wightman Fork near Jasper,		above Bear Creek Lake near Morrison	63,481
surface-water record	419	above Evergreen	61,480
water-quality record	420-421	at Morrison	62
below Castleman Gulch near Jasper,		at mouth at Sheridan	64
surface-water record	429	near Colorado Springs	282,487
water-quality record	430-431	Beaver Creek above Highway 115 near Penrose....	235,486
below Terrace Reservoir,		Beaver Creek above upper Beaver Cemetery	
water-quality records	437-438	near Penrose	234,486
Algae, definition of	23	Bed load, definition of.....	27
Algal-growth potential, definition of	23	Bed load discharge, definition of.....	27
Alkalinity, definition of	23	Bed material, definition of.....	23
Alva B. Adams tunnel at east portal,		Berthoud Pass ditch at Berthoud Pass,	
near Estes Park	460	diversion by	460
Annual 7-day minimum, definition of	24	Big Dry Creek at mouth near Fort Lupton.....	114,483
Apishapa River, near Fowler	342,489	Big Dry Creek at Westminster.....	113,483
Aquifer, definition of	23	Big Sandy Creek near Lamar.....	396,490
Arkansas River,		Big Thompson River at Estes Park.....	128
above Pueblo,		at mouth of Canyon, near Drake	136
surface-water record.....	251	at Loveland,	
water-quality record.....	252-255	surface-water record	137
at Canon City,		water-quality record	138-139
surface-water record.....	221	near Estes Park	130
water-quality record.....	222-225	Biochemical oxygen demand (BOD),	
at Catlin Dam near Fowler,		definition of	23
surface-water record.....	343	Biomass, definition of.....	23
water-quality record.....	344-347	Blue-green algae, definition of.....	26
at Granite,		Bonny Reservoir near Hale.....	184
surface-water record.....	205	Bottom material, definition of.....	23
water-quality record.....	206-209	Boulder Creek,	
at Lamar	395,490	at mouth near Longmont	124,484
at Las Animas,		at North 75th Street near Boulder	123,484
surface-water record.....	350	near Orodell	120
water-quality record.....	351-354	Bummers Gulch near El Vado.....	119,484
at La Junta	349	Busk-Ivanhoe Tunnel, diversion by.....	461
at Moffat Street, at Pueblo,		Cache la Poudre River, above Box Elder Creek	
surface-water record.....	258	near Timnath,	
water-quality record.....	259-261	surface-water record	162
at Parkdale	219,485	water-quality record	163-164
at Portland,		at Fort Collins,	
surface-water record.....	228	surface-water record	154
water-quality record	229-233	water-quality record	155-159
at St. Charles Mesa Diversion at Pueblo,		at mouth of Canyon, near Fort Collins	
water-quality record.....	256-257	surface-water record	149
below John Martin Reservoir,		water-quality record	150-151
surface-water record	390	at Shields Street,	
water-quality record.....	391-394	water-quality record	152-153
near Avondale,		below Fort Collins,	
surface-water record.....	332	water-quality record	160-161
water-quality record.....	333-339	near Greeley	165
near Coolidge, KS,		Camp Creek at Garden of the Gods.....	266,486
surface-water record.....	401	Carter Lake near Berthoud,	
water-quality record.....	402-403	contents of	140
near Granada	397,491	water-quality record	141-142
near Leadville,		Cells/volume, definition of.....	23
surface-water record.....	192	Cfs-day, definition of.....	24
water-quality record.....	193-197	Charles H. Boustead Tunnel, diversion by.....	461
near Nathrop	211,485	Chatfield Lake near Littleton, contents of.....	59
near Nepesta	341	Cheesman Lake near Deckers, contents of.....	46
near Wellsville	212	Chemical oxygen demand (COD), definition of....	24
Arkansas River basin, crest-stage partial-record		Chemical quality of streamflow.....	11
stations in	466-467	Cherry Creek at Denver,	
surface-water records in.....	185	surface-water record	77
Arrangement of records	19	water-quality record	78-79,482
Artesian, definition of	23	at Glendale	76,481
Artificial substrate, definition of	27	below Cherry Creek Lake	75,481
Ash mass, definition of	23	near Franktown	72,481
		near Parker	73,491
Bacteria, definition of	23	Cherry Creek Lake near Denver, contents of.....	74

INDEX

	Page		Page
Cheyenne Creek at Evans avenue at Colorado Springs	283,488	below Janitell Road below Colorado Springs, surface-water record	288
Chicago Creek below Devils Canyon near Idaho Springs	100,483	water-quality record	289-297
Chlorophyll, definition of.....	24	near Colorado Springs, surface-water record	262
Classification of Records, explanation of.....	19	water-quality record	263-265
Clear Creek		near Fountain, surface-water record	315
above Clear Creek Reservoir	210	water-quality record	316-322
above Johnson Gulch near Idaho Springs	101,483	near Pinon, surface-water record	323
above West Fork Clear Creek near Empire	97,482	water-quality record	324-325
at Golden, surface-water record	104	Fourmile Creek, at Orodell	121,484
water-quality record	105-108	below Cripple Creek near Victor	226,485
near Lawson	99,482	near Canon City	227,486
near Loveland Pass	84,491	Frontier ditch near Coolidge, KS	400
Color unit, definition of.....	24	Gage height, definition of	24
Conejos River, below Platoro Reservoir	445	Gaging station, definition of	24
near Lasauces, surface-water record	449	Geneva Creek at Grant, surface-water record	52
water-quality record	450-453	water-quality record	53-54
near Mogote	446	precipitation record	55
Contents, definition of.....	24	Grand River ditch at La Poudre Pass diversion by	460
Control, definition of.....	24	Grape Creek near Westcliffe	220
Control structure, definition of.....	24	Green algae, definition of	26
Cooperation.....	4	Halfmoon Creek, near Malta, surface-water record	199
Cottonwood Creek, at mouth at Pikeview	275,487	water-quality record	200-202
at Woodmen Road near Colorado Springs	274,487	precipitation record	203
Cubic foot per second, definition of.....	24	Hardness, definition of	24
Cubic feet per second per square mile, definition of	24	Harold D. Roberts tunnel at Grant, diversion by	460
Data collection and computation, explanation of	15,22	Homestake tunnel near Leadville, diversion by	461
Data presentation, explanation of.....	15,21,22	Hoosier Pass tunnel at Hoosier Pass, diversion by	461
Data table of daily mean values, explanation of	17	Horsetooth Reservoir near Fort Collins, contents of	131
Definition of terms.....	23-29	water-quality record	132-135
Diatoms, definition of.....	26	Huerfano River near Boone	340,489
Discharge at partial-record stations and miscellaneous sites	463-468	Hydrologic bench-mark network, explanation of	13,24
Discharge, definition of.....	24	Hydrologic unit, definition of	25
Discontinued surface-water discharge or stage-only stations	32-36	Identifying Estimated Daily Discharge, explanation of	18
Discontinued surface-water-quality stations....	37	Instantaneous discharge, definition of	24
Dissolved, definition of.....	24	Introduction	1
Dissolved-solids concentration, definition of	24	Jimmy Camp Creek at Fountain	308,488
Downstream order system.....	13	Joe Wright Creek, above Joe Wright Reservoir	143,484
Drainage area, definition of.....	24	below Joe Wright Reservoir	144,484
Drainage basin, definition of.....	24	John Martin Reservoir at Caddoa, contents of	389
Dry mass, definition of.....	23	Kansas River basin, surface-water records in ...	183
Duck Creek near Grant, surface-water record	48	Laboratory Measurements, explanation of	20
water-quality record	49-50	Lake Creek above Twin Lakes Reservoir	204
precipitation record	51	Lakes and reservoirs: Bonny Reservoir	184
East Fork Arkansas River at U.S. Highway 24 near Leadville, surface-water record	185	Carter Lake	140-142
water-quality record	186-190	Chatfield Lake	59
Elevenmile Canyon Reservoir near Lake George, contents of	46	Cheeseman Lake	46
Explanation of the Records.....	13	Cherry Creek Lake	77-79,482
Fecal Coliform bacteria, definition of.....	23	Elevenmile Canyon Reservoir	46
Fecal Streptococcal bacteria, definition of....	23	Horsetooth Reservoir	131-135
Fountain Creek, above Little Fountain Creek below Fountain, water-quality record	309-310	John Martin Reservoir	389
at Circle Drive below Colorado Springs water-quality record	298-299	Platoro Reservoir	444
at Colorado Springs, surface-water record	284	Pueblo Reservoir	240
water-quality record	285-287	Teller Reservoir	238
at Pueblo, surface-water record	326	Trinidad Lake	356
water-quality record	327-330	Turquoise Lake	198
at Security, surface-water record	300	Land-surface datum, definition of	25
water-quality record	301-307	Latitude-Longitude System, explanation of	14

INDEX

	Page		Page
Leavenworth Creek, at mouth near Georgetown, surface-water record.....	93	Parameter Code, definition of.....	25
water-quality record.....	94-95	Partial-record station, definition of.....	25
precipitation record.....	96	Particle size, classification of.....	25-26
Little Dry Creek at Greenwood Village.....	65-66,481	Particle size, definition of.....	25
Little Fountain Creek, above Keaton Reservoir near Fort Carson.....	311,488	Percent composition, definition of.....	26
near Fort Carson.....	312,488	Periphyton, definition of.....	26
Lonetree Creek at Carr, surface-water record.....	166	Pesticide, definition of.....	26
water-quality record.....	167-168	Phytoplankton, definition of.....	26
near Greeley, surface-water record.....	169	Picocurie, definition of.....	26
water-quality record.....	170-171	Plankton, definition of.....	26
Los Pinos River (Rio Grande basin) near Ortiz..	448	Platoro Reservoir at Platoro.....	444
Map of Colorado, showing locations of crest-stage partial-record stations.....	3	Platte River basin, crest-stage partial-record stations in.....	463-485
Map of Colorado, showing locations of lakes, surface-water and surface-water- quality stations.....	2	Platte River basin, surface-water records in... Plum Creek at Titan Road near Louviers.....	41 58,480
Mean concentration, definition of.....	27	near Sedalia.....	57,480
Mean discharge, definition of.....	24	Precipitation.....	5
Measuring point, definition of.....	25	Precipitation records.....	469-479
Metamorphic stage, definition of.....	25	Primary productivity, definition of.....	26
Methylene blue active substances, definition of.....	25	Publications on techniques of water-resources investigations.....	38-40
Michigan River, near Cameron Pass.....	41,480	Pueblo Reservoir near Pueblo, contents of.....	240
Micrograms per gram, definition of.....	25	water-quality records.....	241-250
Micrograms per liter, definition of.....	25	Purgatoire River, at Ninemile Dam, near Higbee.....	383
Middle Boulder Creek at Nederland.....	118	at Madrid.....	355,489
Milligrams of carbon, definition of.....	26	at Rock Crossing, near Timpas, surface-water record.....	382,490
Milligrams of oxygen, definition of.....	26	water-quality record.....	382
Milligrams per liter, definition of.....	25	below Trinidad Lake.....	357,490
Miscellaneous water-quality in the Rio Grande Basin.....	492-496	near Las Animas, surface-water record.....	384
Monument Creek, above North Gate Boulevard at USAF Academy, surface-water record.....	269	water-quality record.....	385-388,490
water-quality record.....	270-271	near Thatcher, surface-water record.....	370
at Bijou Street at Colorado Springs, water-quality record.....	280-281	water-quality record.....	371-374
at Palmer Lake, water-quality record.....	267-268	Quality of ground-water, El Paso County.....	497-501
at Pikeview, surface-water record.....	276	Radiochemical program, definition of.....	26
water-quality record.....	277-279	Records of Stage and Water Discharge, definition of.....	14
National Geodetic Vertical Datum of 1929, definition of.....	25	explanation of.....	14-18
National Stream-Quality Accounting Network, (NASQAN), explanation of.....	13,25	Surface-Water Quality, definition of.....	19
National Trends Network, explanation of.....	13,25	explanation of.....	19-20
National Water-Quality Assessment Program, (NAWQA), explanation of.....	13	Ground-Water Quality, definition of.....	21-22
Natural substrate, definition of.....	27	explanation of.....	21-22
North Clear Creek, above mouth near Blackhawk.....	102,483	Recoverable from bottom material, definition of.....	26
below Continental Reservoir.....	405	Remark codes, explanation of.....	21
North Fork Cache la Poudre River at Livermore, surface-water record.....	145	Reservoirs in South Platte River basin.....	46
water-quality record.....	146-148	Return period, definition of.....	26
North Fork Republican River at Colorado-Nebraska State Line.....	183	Rio Grande, above mouth of Trinchera Creek, near Lasasues, surface-water record.....	439
North Fork South Platte River, below Geneva Creek at Grant.....	56	water-quality record.....	440-443
North Platte River near Northgate.....	42	at Alamosa.....	413
North St Vrain Creek near Allens Park.....	115,483	at Thirtymile Bridge, near Creede.....	404
Olympus Tunnel at Lake Estes, water-quality record.....	129	at Wagon Wheel Gap.....	406,491
Onsite measurements and sample collection.....	19-20	near Del Norte, surface-water record.....	408
Organic mass, definition of.....	23	water-quality record.....	409-412
Organism, definition of.....	25	near Lobatos, surface-water record.....	454
Organism count/area, definition of.....	25	water-quality record.....	455-459
Organism count/volume, definition of.....	25	Rio Grande basin, surface-water records in....	404
Other Records available, explanation of.....	18-19	Rock Creek, above Fort Carson Reservation.....	313,488
Overview of water year 1995.....	5-12	near Fort Carson.....	314,488
		Runoff in inches, definition of.....	27
		St. Charles River at Vineland.....	331,489
		St. Kevin Gulch above Temple Gulch, near Leadville.....	191,485

INDEX

	Page		Page
St. Vrain Creek at Lyons.....	116	Suspended Sediment discharge, definition of.....	27
at mouth, near Platteville,		Suspended Sediment load, definition of.....	27
surface-water record	125	Suspended total, definition of.....	28
water-quality record	126-127	System for numbering wells, springs, and	
below Longmont	117,484	miscellaneous sites	14
Saguache Creek near Saguache,		Tarryall Creek below Rock Creek,	
surface-water record	414	near Jefferson	45,480
water-quality record	415-418	Taxonomy, definition of.....	28
San Antonio River at Ortiz.....	447	Taylor Arroyo below Rock Crossing,	
Sand Creek at mouth near Commerce City.....	103,491	near Thatcher,	
Sea level.....	27	surface-water record	375
Sediment, definition of.....	20,27	water-quality record	376-381
Selected references.....	30-31	Teller Reservoir near Stone City.....	238
7-day 10-year low flow, definition of.....	27	Thermograph, definition of.....	28
Sodium adsorption ratio, definition of.....	27	Time-weighted average, explanation of.....	28
Solute, definition of.....	27	Timpas Creek at mouth, near Swink.....	348,489
South Boulder Creek near Eldorado Springs.....	122	Tons per acre-foot, definition of.....	28
South Clear Creek above Leavenworth Creek		Tons per day, definition of.....	28
near Georgetown,		Total Coliform bacteria, definition of.....	23
surface-water record	89	Total, definition of.....	28
water-quality record	90-91	Total discharge, definition of.....	28
precipitation record	92	Total recoverable, definition of.....	28
above Lower Cabin Creek Reservoir		Total organism count, definition of.....	25
near Georgetown,		Total sediment discharge, definition of.....	27
surface-water record	85	Total-sediment load, definition of.....	27
water-quality record	86-87	Transmountain diversions from Colorado	
precipitation record	88	River basin in Colorado	460-461
South Fork Rio Grande at South Fork.....	407	no longer published	462
South Platte River		Trinidad Lake near Trinidad.....	356
above Elevenmile Canyon Reservoir		Tritium Network, definition of.....	29
near Hartsel	43	Turkey Creek,	
at Cooper Bridge, near Balzac,		above Teller Reservoir, near Stone City	237,486
surface-water record	177	near Fountain	236,486
water-quality record	178-179	near Stone City	239,486
at Denver,		Turquoise Lake near Leadville.....	198
surface-water record	80	Twin Lakes Tunnel at East Portal,	
water-quality record	81-82	diversion by	461
at Englewood,		Two Butte Creek near Holly.....	399
surface-water record	67	Van Bremer Arroyo	
water-quality record	68-71	near Model,	
South Platte River		surface-water record	364
at Henderson,		water-quality record	365-368
surface-water record	109	precipitation record	369
water-quality record	110-112	near Tyrone,	
at 64th Avenue at Commerce City	83,482	surface-water record	358
at Julesburg,		water-quality record	359-362
surface-water record	180	precipitation record	363
water-quality record	181-182	Water temperature.....	20
at Union Avenue, at Englewood,	60,480	Water year, definition of.....	29
below Cheesman Lake	47	WDR, definition of.....	29
near Kersey,		Weighted average, definition of.....	29
surface-water record	172	West Fork Clear Creek above mouth near Empire..	98,482
water-quality record	173-174	West Monument Creek at U.S. Air Force Academy..	273,487
near Lake George	44	West Monument Creek below Rampart Reservoir....	272,487
near Weldona,		Wet mass, definition of.....	23
surface-water record	175	Wightman Fork,	
water-quality record	176	at mouth near Jasper,	
Special networks and programs.....	13	surface-water record	425
Special study and miscellaneous sites.....	468	water-quality record	426-427
Specific conductance, definition of.....	27	below Cropsey Creek at Summitville,	
Stage-discharge relation, definition of.....	27	surface-water record	422
Station Identification Numbers,		water-quality record	423-424
explanation of	13	Wild Horse Creek above Holly.....	398,491
Station manuscript, explanation of.....	16	WSP, definition of.....	29
Statistics of monthly mean data,		Zooplankton, definition of.....	26
explanation of	17		
Streamflow.....	5		
Streamflow, definition of.....	27		
Substrate, definition of.....	27		
Summary statistics, explanation of.....	17-18		
Supplemental water-quality data for			
surface-water stations	480-491		
Surface area, definition of.....	28		
Surficial bed material, definition of.....	28		
Suspended, definition of.....	28		
Suspended recoverable, definition of.....	28		
Suspended Sediment, definition of.....	27		
Suspended Sediment concentration,			
definition of	27		

CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
<i>Length</i>		
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
<i>Area</i>		
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
<i>Volume</i>		
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
<i>Flow</i>		
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
<i>Mass</i>		
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.