

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

09010000 Grand River Ditch
 09012000 Eureka Ditch
 09013000 Alva B. Adams Tunnel
 09021500 Berthoud Pass Ditch
 09022500 Moffat Water Tunnel
 09046000 Boreas Pass Ditch
 09047300 Vidler Tunnel
 09050590 Harold D. Roberts Tunnel

TO ARKANSAS RIVER BASIN

09042000 Hoosier Pass Tunnel
 09061500 Columbine Ditch
 09062500 Wurtz Ditch
 09063700 Homestake Tunnel
 09073000 Twin Lakes Tunnel
 09077160 Charles H. Boustead Tunnel
 09077500 Busk-Ivanhoe Tunnel
 09115000 Larkspur Ditch

TO RIO GRANDE RIVER BASIN

09118200 Tarbell Ditch
 09121000 Tabor Ditch
 09341000 Treasure Pass Ditch
 09347000 Don LaFont Ditches 1 & 2
 09348000 Williams Creek Squaw Pass Ditch
 09351000 Pine River-Weminuche Pass Ditch
 09351500 Weminuche Pass

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 2003 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft ³ /s)	Date	Gage height (ft)	Discharge (ft ³ /s)
PLATTE RIVER BASIN								
Lee Gulch at Littleton, CO (06709740)	Lat 39°35'47", long 105°00'57", in SW ¹ / ₄ SW ¹ / ₄ sec.21, T.5 S., R.68 W., 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.	1980-2003	7-26-03	11.56	142	a1983	16.00	444
Dutch Creek at Platte Canyon Drive, near Littleton, CO (06709910)	Lat 39°36'01", long 105°02'28", in NW ¹ / ₄ SE ¹ / ₄ sec.19, T.5 S., R.69 W., Arapahoe County, on left bank 150 ft downstream from bridge on Platte Canyon Road. Drainage area not determined.	1985-2003	4-23-03	11.05	190	6-01-91	11.51	1,090
Weaver Creek near Lakewood, CO (06711305)	Lat 39°38'13", long 105°07'47", in NE ¹ / ₄ NE 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. Discontinued September 2003.	1982-2003	7-26-03	10.71	35.6	a1985	13.93	1,010
Little Dry Creek near Arapahoe Road, CO (06711515)	Lat 39°35'38", long 104°54'23", in NE ¹ / ₄ NE ¹ / ₄ sec.29, T.5 S., R.67 W., Arapahoe County, on right bank, 80 (formerly published as Inflow to 0 ft downstream from Quebec St. Holly Reservoir, 1985-86). Drainage area not determined.	1985-2003	8-30-03	8.98	277	a1985	10.52	800
Willow Creek at Dry Creek Road, near Englewood, CO (06711535)	Lat 39°34'49", long 104°54'42", in NW ¹ / ₄ NE 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.	1985-2003	8-30-03	10.24	334	a1985	14.28	3,470
Little Dry Creek above Englewood, CO (06711555)	Lat 39°38'57", long 104°58'42", in SE ¹ / ₄ NE 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.	1982-2003	7-18-03	7.19	415	a1983	15.64	1,060

MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station name and number	Location and drainage area	Period of record	Water year 2003 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft ³ /s)	Date	Gage height (ft)	Discharge (ft ³ /s)
PLATTE RIVER BASIN--Continued								
Harvard Gulch at Colorado Blvd., at Denver, CO (06711570)	Lat 39°40'08", long 104°56'32", in SE ¹ / ₄ SE 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.	1979-2003	6-18-03	13.16	578	7-8-01	13.98	1,100
Harvard Gulch below University Blvd. at Denver, CO (06711572)	Lat 39°40'10", long 104°57'33", in SE ¹ / ₄ SE 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.Discontinued Sept.2003.	1979-2003	6-18-03	14.03	713	7-8-01	15.50	1,600
Harvard Gulch at Harvard Park at Denver, CO (06711575)	Lat 39°40'21", long 104°58'35", in NW ¹ / ₄ SW 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.	1979-2003	6-18-03	15.42	750	7-12-96	16.25	1,100
Weir Gulch upstream from 1st Avenue, at Denver, CO (06711618)	Lat 39°43'03", long 105°02'30", in NW ¹ / ₄ SE ¹ / ₄ sec.7, T.4 S., R.68 W., Denver County, 250 ft upstream from 1st Ave., in Denver. Drainage area not determined.	1985-2003	6-6-03	10.34	156	8-01-91	11.91	523
Dry Gulch at Denver, CO (06711770)	Lat 39°44'03", long 105°02'20", in SW ¹ / ₄ NE 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 Denver. Drainage area not determined.	1980-2003	8-30-03	11.54	120	a1981	16.00	445
Lakewood Gulch at Denver, CO (06711780)	Lat 39°44'06", long 105°01'54", in SW ¹ / ₄ NW ¹ / ₄ sec.5, T.4 S., R.68 W., Denver County, 2,000 ft downstream from confluence with Dry Gulch, near intersection of Knox Ct., and West 12th Ave., in Denver. REVISED RECORDS.--WDR CO-02-1: 2001(M). Drainage area not determined.	1980-2003	8-30-03	13.86	453	8-19-98	14.80	1,180
Sloans Lake, south Tributary at Denver, CO (06711820)	Lat 39°44'44", long 105°03'28", in NW ¹ / ₄ SE 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. Drainage area not determined. Discontinued September 2003.	1985-2003	8-30-03	4.55	49	6-01-91	14.00	451
Westerly Creek at Aurora, CO (06714260)	Lat 39°44'43", long 104°52'48", in NW ¹ / ₄ SW 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. Drainage area not determined.	1982-2003	8-30-03	11.80	307	a1983	14.45	1,530

MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station name and number	Location and drainage area	Period of record	Water year 2003 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft ³ /s)	Date	Gage height (ft)	Discharge (ft ³ /s)
PLATTE RIVER BASIN								
Lena Gulch at Lakewood, CO (06719560)	Lat 39°44'27", long 105°08'49", in SE ¹ / ₄ SE 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 1986-2003	8-30-03	11.90	183	7-20-75	14.41	641
Little Dry Creek at Westminster, CO (06719840)	Lat 39°49'34", long 105°02'25", in NW ¹ / ₄ NE 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.	1982-2003	4-19-03 7-6-02	10.66 2002 Revised 10.55	207 191	6-01-91	13.09	1,280
ARKANSAS RIVER BASIN								
Cottonwood Creek at Cowpoke Road at Colorado Springs (07103977)	Lat 38°57'04", long 104°42'47", in SE ¹ / ₄ NW ¹ / ₄ sec. 6, T.13 S., R.65 W., El Paso County, Hydrologic Unit 11020003, on left bank on downstream side of bridge on Cowpoke Road at Colorado Springs, 1.0 mi upstream from Woodmen Road, and 5.3 mi east of Interstate 25. Drainage area is 5.93 mi ² .	1998-2003b	7-28-03	unknown	e50	6-23-99	6.25	230
Cottonwood Creek Tributary above Rangewood Drive at Colorado Springs, CO (07103985)	Lat 38°55'45", long 104°44'48", in SE ¹ / ₄ SW ¹ / ₄ sec. 11, T.13 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on right bank 400 ft upstream from Dublin Road at Colorado Springs, 0.2 mi upstream from Rangewood Drive, 0.5 mi upstream from mouth, and 3.2 mi east of Interstate 25. Drainage area is 2.81 mi ² .	1998-2003b	6-17-03	7.94	1,040	7-13-01	8.76	2,960
North Rockrimmon Creek above Delmonico Dr. at Colorado Springs, CO (07104050)	Lat 38°54'56", long 104°49'35", in SW ¹ / ₄ NE ¹ / ₄ sec.18, T.13 S., R.66 W., El Paso County, on both banks, 300 ft upstream from Delmonico Drive at Colorado Springs, 0.2 mi west of Interstate 25, 0.3 mi upstream from mouth, and 2.0 mi downstream from Woodmen Road. Drainage area 1.82 mi ² .	1998-2003	8-30-03	5.52	529	7-24-01	6.46	745
Big Arroyo near Thatcher, CO (07120620)	Lat 37°33'17", long 104°01'16", in NW ¹ / ₄ NW ¹ / ₄ sec.4, T.29 S., R.59 W., Las Animas County, on Pinon Canyon Maneuver site, on left bank 30 ft upstream from bridge on Pipeline Road, 5.3 mi upstream from mouth, and 4.8 mi east of Thatcher. REVISED RECORDS.--WDR CO-97-1:1987 (M). Drainage area is 15.5 mi ² .	1983-90b 1991-2003	6-17-03	3.29	46	8-11-97	5.78	1,780
Big Sandy Creek above Amity Canal Diversion, near Kornman, CO (07134000)	Lat 38°12'52", long 102°28'47", in NE ¹ / ₄ NW ¹ / ₄ sec.21, T.21 S., R.45 W., Prowers County, on left bank 106 ft upstream from Amity Canal Diversion 7.0 mi upstream from mouth, and 9.0 mi northeast of Kornman. Drainage area is 3,136 mi ² , of which about 585 mi ² is probably noncontributing.	1941-46b 1996-2003		no peaks during year		5-04-99	14.00	3,580
Two Butte Creek near Holly, CO (07135000)	Lat 38°01'40", long 102°08'19", in SE ¹ / ₄ SE ¹ / ₄ sec.21, T.23 S., R.42 W., Prowers County, on left bank 200 ft downstream from road DD, approximately 1 mi upstream from mouth, and 2.9 mi southwest of Holly. Drainage area is 817 mi ² .	1942-46bc 1995-99b 2000-2003		no peaks during year		5-02-44	4.77c	1,800

a-Month or day of occurrence is unknown or not exact.
b-Previously operated as a continuous-record gaging station.
c-At different datum.
e-Estimated.

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 in the "Supplemental Water-Quality Data For Gaging Stations" section of this report. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07079195

DISCHARGE MEASUREMENTS MADE AT SPECIAL STUDY AND MISCELLANEOUS SITES DURING WATER YEAR 2003

ARKANSAS RIVER BASIN

Station no	Station name	Location and drainage area	Date	Discharge (ft ³ /s)
07079195	East Fork Arkansas River at Highway 91 near Leadville, CO	Lat 39°17'09", long 106°16'45", in NW ¹ / ₄ NE ¹ / ₄ , sec.12, T.9 S., R.80 W. Lake County, Hydrologic Unit 11020001, on right bank, 20 ft. upstream of State Highway 91, 1.6 mi north of Leadville. Drainage area is 35.0 mi ² .	10-02-02	9.6
			11-06-02	8.1
			12-04-02	8.7
			1-08-03	4.0
			2-05-03	5.1
			3-05-03	4.2
			4-02-03	5.7
			5-07-03	9.8
			5-29-03	250
			6-04-03	214
			7-02-03	74
			8-06-03	24
			9-03-03	21

PRECIPITATION DATA AT SITES ON FORT CARSON MILITARY RESERVATION

A network of meteorological stations is operated on the Fort Carson Military Reservation to provide precipitation data for land-condition trend analysis, long-term climatic analysis, storm-runoff modeling, and operations management during military training exercises. Other meteorological data are available upon request.

382731104473701 MPRC METEOROLOGICAL STATION AT FORT CARSON, CO

LOCATION.--Lat 38°27'31", long 104°47'37", in NE¹/₄NE¹/₄ sec.29, T.18 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, 0.1 mi northeast of Military Route 1, 2.1 mi northeast of Teller Reservoir, and 16 mi southwest of Fountain.

PRECIPITATION RECORDS

PERIOD OF RECORD.--May 1999 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=382731104473701

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,800 ft above NGVD of 1929, from topographic map.

REMARKS.--Records during October through February may be less accurate than the rest of the published records.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.17 inches, July 17, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 0.96 inch, Apr. 19.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
2	0.07	0.06	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00
3	0.07	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.46
4	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.02	0.00
5	0.00	0.00	0.00	0.01	0.00	0.04	0.00	0.00	0.33	0.00	0.00	0.00
6	0.00	0.00	0.01	0.00	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.11
7	0.00	0.00	0.00	0.00	0.27	0.00	0.05	0.00	0.03	0.00	0.00	0.06
8	0.01	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.35	0.02
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00
11	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.13
14	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.09	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.06	0.00	0.15	0.46	0.00	0.55	0.00	0.01
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.01	0.85	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.61	0.00	0.03	0.00
19	0.00	0.00	0.01	0.00	0.26	0.02	0.96	0.00	0.14	0.21	0.00	0.00
20	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.12	0.15	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.05	0.00	0.09	0.00	0.01	0.19	0.01	0.09	0.00	0.00	0.00	0.00
25	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.10	0.00	0.00	0.02	0.00
26	0.09	0.05	0.00	0.00	0.08	0.00	0.00	0.01	0.00	0.14	0.58	0.00
27	0.05	0.00	0.00	0.00	0.03	0.00	0.00	0.26	0.00	0.01	0.00	0.00
28	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.34	0.32	0.16	0.00
29	0.01	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.01	0.00
30	0.01	0.00	0.00	0.00	---	0.00	0.00	0.08	0.00	0.00	0.45	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.02	---	0.00	0.01	---
TOTAL	0.44	0.12	0.25	0.07	1.06	2.17	1.34	1.03	2.53	1.38	1.64	0.80
MAX	0.09	0.06	0.14	0.06	0.27	0.85	0.96	0.46	0.61	0.55	0.58	0.46
WTR YR	2003	TOTAL	12.83	MAX	0.96							

PRECIPITATION DATA AT SITES ON FORT CARSON MILITARY RESERVATION—Continued

384339104461201 RANGE ONE METEOROLOGICAL STATION AT FORT CARSON, CO

LOCATION.--Lat 38°43'39", long 104°46'12", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.22, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on Fort Carson Military Reservation, 0.1 mi southeast of intersection of Military Route 5 and Specker Ave., 1.5 mi southwest of Interstate 25, and 7.9 mi south of Colorado Springs.

PRECIPITATION RECORDS

PERIOD OF RECORD.--March 1999 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384339104461201

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,770 ft above NGVD of 1929, from topographic map.

REMARKS.--Records during Nov. 1 to Jan. 13 and estimated daily precipitation may be less accurate than the rest of the published records. Daily precipitation estimated using method based on NOAA Technical Memo NWS HYDRO 14, 1972.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.51 inches, May 30, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 0.70 inch (estimated), Mar. 17.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.17	0.01	0.00	0.00	e0.00	e0.01	e0.00	0.00	0.16	0.00	0.00	0.00
2	0.01	0.05	0.00	0.00	e0.00	e0.30	e0.00	0.09	0.00	0.00	0.00	0.03
3	0.02	0.01	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.05	0.19
4	0.00	0.00	0.01	0.00	e0.00	e0.00	e0.00	0.00	0.56	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	e0.02	e0.01	e0.07	0.00	0.29	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.14	0.03	0.15	0.00	0.00	0.41
7	0.00	0.00	0.00	0.00	e0.10	e0.00	e0.01	0.00	0.07	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.01	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	0.15	0.07	0.00	0.00	0.00
11	0.00	0.00	0.00	0.01	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.38	0.00
12	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.02	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.09
14	0.00	0.00	0.00	e0.00	e0.15	0.00	e0.00	0.00	0.31	0.00	0.00	0.00
15	0.00	0.00	0.00	e0.00	e0.00	0.00	e0.31	0.36	0.00	0.06	0.00	0.00
16	0.00	0.00	0.00	e0.00	e0.00	0.00	e0.00	0.00	0.01	0.00	0.00	0.00
17	0.00	0.00	0.00	e0.00	e0.00	e0.70	e0.00	0.00	0.40	0.00	0.00	0.00
18	0.00	0.00	0.00	e0.00	e0.00	e0.31	e0.00	0.00	0.02	0.00	0.13	0.00
19	0.00	0.00	0.01	e0.00	e0.38	e0.02	e0.29	0.10	0.40	0.28	0.00	0.00
20	0.00	0.00	0.00	e0.00	e0.00	e0.00	e0.01	0.01	0.04	0.04	0.00	0.00
21	0.00	0.00	0.00	e0.00	e0.00	e0.10	e0.00	0.00	0.00	0.00	0.00	0.00
22	0.05	0.00	0.00	e0.00	e0.00	e0.00	0.10	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.03	e0.00	e0.00	e0.00	0.12	0.25	0.00	0.00	0.00	0.00
24	0.04	0.00	0.00	e0.00	e0.00	e0.52	0.08	0.22	0.00	0.00	0.00	0.00
25	0.00	0.02	0.01	e0.00	e0.00	e0.00	0.00	0.24	0.13	0.00	0.05	0.00
26	0.40	0.00	0.00	e0.00	e0.01	e0.00	0.00	0.30	0.01	0.15	0.08	0.00
27	0.43	0.00	0.00	e0.00	e0.02	e0.00	0.00	0.00	0.00	0.02	0.00	0.00
28	0.00	0.00	0.00	e0.00	e0.11	e0.00	0.00	0.00	0.13	0.30	0.07	0.00
29	0.01	0.00	0.00	e0.00	---	e0.00	0.00	0.00	0.00	0.25	0.00	0.00
30	0.00	0.00	0.00	e0.00	---	e0.00	0.00	0.07	0.00	0.00	0.61	0.00
31	0.00	---	0.00	e0.00	---	e0.00	---	0.02	---	0.00	0.23	---
TOTAL	1.13	0.09	0.06	0.01	0.79	1.97	1.14	1.84	2.77	1.10	1.60	0.72
MAX	0.43	0.05	0.03	0.01	0.38	0.70	0.31	0.36	0.56	0.30	0.61	0.41
WTR YR	2003	TOTAL	13.22	MAX	0.70							

e Estimated.

PRECIPITATION DATA AT SITES ON FORT CARSON MILITARY RESERVATION—Continued

384053104492001 ROD AND GUN METEOROLOGICAL STATION AT FORT CARSON, CO

LOCATION.--Lat 38°40'53", long 104°49'20", in SE¹/₄SW¹/₄ sec.6, T.16 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on Fort Carson Military Reservation, 0.4 mi north of Military Route 4, 1.2 mi east of State Highway 115, and 9.1 mi south of Colorado Springs.

PRECIPITATION RECORDS

PERIOD OF RECORD.--May 1999 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384053104492001

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 6,120 ft above NGVD of 1929, from topographic map.

REMARKS.--Records during November through February may be less accurate than the rest of the published records. Daily precipitation estimated using method based on NOAA Technical Memo NWS HYDRO 14, 1972.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 2.97 inches, Aug. 4, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.59 inches, May 24.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	0.16	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.14	0.00	0.00	0.00	
2	0.03	0.06	0.00	0.00	0.00	0.35	0.00	0.03	0.00	0.00	0.05	0.06	
3	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.12	
4	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.02	0.01	0.08	0.00	0.19	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.06	0.01	0.00	0.03	0.31	
7	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.09	0.00	0.00	0.02	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.30	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	
12	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.10	
14	0.00	0.00	0.00	e0.00	0.15	0.00	0.00	0.00	0.57	0.00	0.00	0.00	
15	0.00	0.00	0.00	e0.00	0.00	0.00	0.35	0.29	0.00	0.22	0.00	0.00	
16	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	e0.00	0.00	0.66	0.00	0.00	0.15	0.00	0.00	0.00	
18	0.00	0.00	0.00	e0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.16	0.00	
19	0.00	0.00	0.00	e0.00	0.41	0.01	0.22	0.11	0.28	0.12	0.00	0.00	
20	0.00	0.00	0.00	e0.00	0.00	0.00	0.01	0.08	0.04	0.06	0.00	0.00	
21	0.00	0.02	0.00	e0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.03	0.00	0.00	e0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	e0.00	0.00	0.00	0.05	0.58	0.00	0.00	0.03	0.00	
24	0.09	0.00	0.03	e0.00	0.00	0.58	0.14	1.59	0.00	0.00	0.00	0.00	
25	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.10	0.00	0.00	0.00	
26	0.39	0.01	0.00	0.00	0.00	0.00	0.00	0.10	0.01	0.30	0.11	0.00	
27	0.53	0.01	0.00	0.00	0.02	0.00	0.00	0.04	0.00	0.02	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.06	0.09	0.09	0.00	
29	0.01	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.51	0.00	0.00	
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.15	0.00	0.00	0.81	0.00	
31	0.00	---	0.00	0.00	---	0.00	---	0.05	---	0.00	0.72	---	
TOTAL	1.28	0.14	0.04	0.02	0.80	1.96	1.08	3.89	2.79	1.32	2.40	0.61	
MAX	0.53	0.06	0.03	0.01	0.41	0.66	0.35	1.59	0.67	0.51	0.81	0.31	
WTR YR	2003	TOTAL	16.33	MAX	1.59								

e Estimated.

PRECIPITATION DATA AT SITES ON FORT CARSON MILITARY RESERVATION—Continued

383159104540701 SULLIVAN PARK METEOROLOGICAL STATION AT FORT CARSON, CO

LOCATION.--Lat 38°31'59", long 104°54'07", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.33, T.17 S., R.67 W., El Paso County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, 0.4 mi east of Military Route 11, 1.0 mi north of Military Route 8, 1.1 mi northeast of Camp Red Devil, and 9 mi northeast of Penrose.

PRECIPITATION RECORDS

PERIOD OF RECORD.--May 1999 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=383159104540701.

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 6,010 ft above NGVD of 1929, from topographic map.

REMARKS.--Records during November through February and Aug. 7 through Sept. 8 may be less accurate than the rest of the published records. Daily precipitation estimated using method based on NOAA Technical Memo NWS HYDRO 14, 1972.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 2.92 inches, Aug. 4, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.85 inches, Aug. 8.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.11	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.03	0.00	0.00	0.01
2	e0.07	0.01	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.25	0.00
3	e0.05	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.28
4	e0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.03	0.00
5	e0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.43	0.00	0.00	0.02
6	e0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.21
7	e0.00	0.00	0.00	0.00	0.12	0.00	0.04	0.00	0.05	0.00	0.00	0.04
8	e0.07	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	1.85	0.00
9	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00
11	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00
12	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.25
14	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.05	0.00	0.00	0.01
15	0.00	0.00	0.00	0.00	0.01	0.00	0.04	0.62	0.00	1.05	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.06	0.00	0.12	0.00
19	0.00	0.00	0.00	0.00	0.40	0.16	0.26	0.05	0.62	0.12	0.00	0.00
20	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.02	0.11	0.21	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.10	0.02	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.01	0.00
24	0.03	0.00	0.03	0.00	0.00	0.27	0.01	0.68	0.00	0.01	0.00	0.00
25	0.00	0.01	0.00	0.00	0.00	0.03	0.00	0.41	0.00	0.00	0.00	0.00
26	0.29	0.01	0.00	0.00	0.04	0.00	0.00	0.04	0.00	0.60	0.00	0.00
27	0.54	0.00	0.00	0.00	0.06	0.00	0.00	0.04	0.00	0.02	0.00	0.00
28	0.00	0.00	0.00	0.00	0.08	0.03	0.00	0.00	0.09	0.00	0.01	0.00
29	0.15	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.02	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.18	0.00	0.00	0.03	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.02	---	0.00	0.00	---
TOTAL	1.32	0.03	0.09	0.03	1.11	2.15	0.58	2.14	2.13	2.03	2.35	0.83
MAX	0.54	0.01	0.05	0.02	0.40	0.86	0.26	0.68	0.62	1.05	1.85	0.28

WTR YR 2003 TOTAL 14.79 MAX 1.85

e Estimated.

PRECIPITATION DATA AT SITES ON FORT CARSON MILITARY RESERVATION—Continued

383109104431301 YOUNG HOLLOW METEOROLOGICAL STATION AT FORT CARSON, CO

LOCATION.--Lat 38°31'09", long 104°43'13", in NE¹/₄NE¹/₄ sec.1, T.18 S., R.66 W., Pueblo County, Hydrologic Unit 11020003, on Fort Carson Military Reservation, 1.1 mi east of Military Route 1, 4.8 mi west of Interstate 25, and 5.5 mi south of Fountain.

PRECIPITATION RECORDS

PERIOD OF RECORD.--May 1999 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=383109104431301

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,350 ft above NGVD of 1929, from topographic map.

REMARKS.--Records during November through February may be less accurate than the rest of the published records.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.25 inches, July 19, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.25 inches, July 19.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00
2	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34
4	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.03
6	0.00	0.00	0.01	0.00	0.01	0.00	0.04	0.00	0.01	0.00	0.00	0.06
7	0.00	0.00	0.00	0.00	0.20	0.00	0.07	0.00	0.03	0.00	0.00	0.04
8	0.27	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.01
9	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.01	0.00
11	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.16
14	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.15	0.00	0.00	0.01
15	0.00	0.00	0.00	0.00	0.01	0.00	0.19	0.52	0.00	0.88	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.15	0.00	0.05	0.00
19	0.00	0.00	0.00	0.00	0.02	0.01	0.71	0.00	0.06	1.25	0.00	0.00
20	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.12	0.49	0.01	0.00
21	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
22	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
24	0.00	0.00	0.04	0.00	0.00	0.19	0.06	0.05	0.00	0.00	0.00	0.00
25	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.01	0.00
26	0.10	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.80	0.04	0.00
27	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.01	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.51	0.11	0.00
29	0.06	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.03	0.00	0.00
30	0.01	0.00	0.00	0.00	---	0.00	0.00	0.03	0.00	0.00	0.50	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.02	---
TOTAL	1.03	0.05	0.18	0.02	0.45	1.67	1.08	1.20	2.20	3.98	0.79	0.65
MAX	0.38	0.04	0.12	0.02	0.20	0.88	0.71	0.53	0.62	1.25	0.50	0.34

WTR YR 2003 TOTAL 13.30 MAX 1.25

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE

A network of meteorological stations is operated on the Pinon Canyon Maneuver Site to provide precipitation data for land-condition trend analysis, long-term climatic analysis, storm-runoff modeling, and operations management during military training exercises. Other meteorological data are available upon request.

373232103555201 BEAR SPRINGS METEOROLOGICAL STATION NEAR HOUGHTON, CO

LOCATION.--Lat 37°32'32", long 103°55'55", in SW¹/₄SW¹/₄ sec.5, T.29 S., R.58 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site approximately 100 ft north of Military Supply Road 1, 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.--August 1983 to October 1998, March 1999 to current year. Site was part of a hydrologic study 1983-92, data published elsewhere. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=373232103555201

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,200 ft above NGVD of 1929, from topographic map.

REMARKS.--Records during November through February are less accurate than the rest of the published records.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 2.82 inches, May 3, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 0.89 inch, June 13.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.07	0.00	0.02	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
2	0.01	0.01	0.00	0.08	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
3	0.01	0.01	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.03	0.17
4	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00
5	0.00	0.00	0.07	0.00	0.00	0.00	0.01	0.00	0.71	0.00	0.06	0.00
6	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.74
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.28
8	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.00	0.00	0.00	0.16	0.00
9	0.00	0.12	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.07
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.11
14	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.21	0.00	0.00
16	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.01	0.00
19	0.00	0.00	0.00	0.00	0.03	0.44	0.53	0.00	0.06	0.09	0.01	0.00
20	0.00	0.00	0.00	0.00	0.03	0.21	0.00	0.01	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
22	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
23	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.02	0.00	0.06	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
25	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
26	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
28	0.01	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.53	0.00	0.00
29	0.01	0.00	0.00	0.00	---	0.00	0.00	0.00	0.57	0.00	0.15	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.52	0.00
31	0.01	---	0.00	0.00	---	0.00	---	0.03	---	0.00	0.00	---
TOTAL	0.53	0.29	0.37	0.11	0.08	0.85	0.62	0.61	3.17	0.85	1.09	1.37
MAX	0.35	0.12	0.17	0.08	0.03	0.44	0.53	0.34	0.89	0.53	0.52	0.74
WTR YR	2003	TOTAL	9.94	MAX	0.89							

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE—Continued

372319104073301 BROWN SHEEP CAMP METEOROLOGICAL STATION NEAR TYRONE, CO

LOCATION.--Lat 37°23'19", long 104°07'33", in SW¹/₄NE¹/₄ sec.33, T.30 S., R.60 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site approximately 50 ft west of Military Supply Road, 0.9 mi southwest of Brown Sheep Camp, 6.4 mi southeast of Tyrone, and 23 mi northeast of Trinidad.

PRECIPITATION RECORDS

PERIOD OF RECORD.--June 1999 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=372319104073301

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,390 ft above NGVD of 1929, from topographic map.

REMARKS.--Records during November through February are less accurate than the rest of the published records.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 2.88 inches, June 17, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 2.88 inches, June 17.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.01	0.00	0.06	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
2	0.01	0.00	0.00	0.07	0.00	0.08	0.00	0.02	0.05	0.00	0.00	0.00
3	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.31
4	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.30	0.00
5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.05	0.00
6	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.66
7	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.00	0.03	0.00	0.00	0.29
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	0.00
9	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.09
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.06
14	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.01	0.00	0.00	0.01	0.00	0.16	0.13	0.00	0.02	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.88	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.04	0.16	0.00	0.00	0.01	0.00	0.00	0.00
19	0.00	0.00	0.01	0.00	0.13	0.26	0.23	0.02	0.00	0.07	0.04	0.00
20	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.04	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
22	0.02	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00
23	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
24	0.00	0.00	0.09	0.00	0.00	0.01	0.00	0.11	0.00	0.00	0.00	0.00
25	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00
28	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.03	0.01	0.00
29	0.06	0.00	0.00	0.00	---	0.00	0.00	0.00	0.18	0.00	0.34	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.02	0.00	0.00	0.68	0.00
31	0.01	---	0.00	0.00	---	0.00	---	0.11	---	0.00	0.00	---
TOTAL	0.71	0.11	0.45	0.15	0.27	0.69	0.41	0.48	4.02	0.34	2.75	1.41
MAX	0.38	0.09	0.19	0.07	0.13	0.26	0.23	0.13	2.88	0.22	1.11	0.66
WTR YR	2003	TOTAL	11.79	MAX	2.88							

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE—Continued

373004104032001 BURSON WELL METEOROLOGICAL STATION NEAR THATCHER, CO

LOCATION.--Lat 37°30'04", long 104°03'20", in SW¹/₄SW¹/₄ sec.19, T.29 S., R.59 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site 0.3 mi south of Military Supply Road 1, 4.2 mi southeast of Thatcher, and 33 mi northeast of Trinidad.

PRECIPITATION RECORDS

PERIOD OF RECORD.--May 1999 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=373004104032001

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,630 ft above NGVD of 1929, from topographic map.

REMARKS.--Records during November through February, June 2 to July 1, and estimated daily precipitation are less accurate than the rest of the published records. Daily precipitation estimated using method based on NOAA Technical Memo NWS HYDRO 14, 1972.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 2.31 inches, Aug. 8, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 2.31 inches, Aug. 8.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.03	0.04	0.00	0.06	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
2	0.01	0.03	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
3	0.01	0.00	0.00	0.00	0.08	0.01	0.00	0.00	0.00	0.00	0.00	0.26
4	0.00	e0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.57	0.00
5	0.00	e0.00	0.10	0.00	0.00	0.00	0.01	0.00	0.62	0.00	0.09	0.00
6	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42
7	0.00	e0.00	0.00	0.00	0.05	0.00	0.01	0.00	0.03	0.00	0.00	0.03
8	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	2.31	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.01
11	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.09
14	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.01
15	0.00	0.03	0.00	0.00	0.00	0.00	0.26	0.04	0.00	0.06	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.17	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.01	0.00	0.01	0.00
19	0.00	0.00	0.10	0.00	0.07	0.17	0.35	0.00	0.00	0.00	0.02	0.00
20	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.03	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
22	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.02	0.00	0.10	0.00	0.00	0.05	0.00	0.13	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.02	0.00	0.00
26	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.06	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.28	0.00	0.00
28	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.64	0.00	0.00
29	0.01	0.00	0.00	0.00	---	0.00	0.00	0.00	0.88	0.00	0.20	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.99	0.00
31	0.01	---	0.00	0.00	---	0.00	---	0.28	---	0.00	0.00	---
TOTAL	0.46	0.10	0.46	0.08	0.29	1.10	0.64	0.49	2.02	1.00	4.19	0.89
MAX	0.29	0.04	0.16	0.06	0.08	0.50	0.35	0.28	0.88	0.64	2.31	0.42
WTR YR	2003	TOTAL	11.72	MAX	2.31							

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE—Continued

372959104092201 CANTONMENT METEOROLOGICAL STATION NEAR CEMETERY AT SIMPSON, CO

LOCATION.--Lat 37°29'59", long 104°09'35", in SW¼SE¼ sec.19, T.29 S., R.60 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site approximately 200 ft north of Military Supply Road 1, 250 ft west of Simpson Cemetery, 0.4 mi east of Highway 350, and 32 mi northeast of Trinidad.

PRECIPITATION RECORDS

PERIOD OF RECORD.--July 1993 to October 1998, May 1999 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=372959104092201

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,630 ft above NGVD of 1929, from topographic map. Prior to Mar. 25, 1999, at site 780 ft east.

REMARKS.--Records during November through February are less accurate than the rest of the published records.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.44 inches, Apr. 26, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.14 inches, Aug. 30.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	0.00	0.05	0.00	0.15	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	
2	0.00	0.01	0.00	0.03	0.00	0.12	0.00	0.00	0.05	0.00	0.00	0.01	
3	0.01	0.00	0.02	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.25	
4	0.00	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.66	0.01	
5	0.00	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.62	0.00	0.05	0.00	
6	0.00	0.00	0.12	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.26	
7	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.02	0.12	0.00	0.01	
8	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.27	0.00	
9	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.07	
10	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.04	
14	0.00	0.01	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.03	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.17	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.56	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.06	0.10	0.00	0.00	0.02	0.00	0.00	0.00	
19	0.00	0.00	0.11	0.00	0.10	0.53	0.51	0.00	0.00	0.15	0.01	0.00	
20	0.00	0.00	0.00	0.00	0.00	0.14	0.01	0.02	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.01	0.16	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.01	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	
23	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	
24	0.01	0.00	0.11	0.00	0.00	0.09	0.00	0.45	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	
26	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.15	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.25	0.00	0.00	
28	0.01	0.00	0.00	0.00	0.03	0.01	0.00	0.00	0.00	0.51	0.02	0.00	
29	0.01	0.00	0.00	0.00	---	0.00	0.00	0.00	1.06	0.00	0.03	0.00	
30	0.01	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	1.14	0.00	
31	0.01	---	0.00	0.00	---	0.00	---	0.31	---	0.00	0.00	---	
TOTAL	0.47	0.24	0.54	0.28	0.53	1.32	0.71	0.78	2.55	1.20	2.37	0.65	
MAX	0.24	0.13	0.15	0.15	0.12	0.53	0.51	0.45	1.06	0.51	1.14	0.26	
WTR YR	2003	TOTAL	11.64	MAX	1.14								

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE—Continued

372532104093001 CANTONMENT WINDMILL METEOROLOGICAL STATION NEAR TYRONE, CO

LOCATION.--Lat 37°25'32", long 104°09'30", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.18, T.30 S., R.60 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site 0.2 mi south of Military Supply Road 2, 3.5 mi southeast of Tyrone, and 25 mi northeast of Trinidad.

PRECIPITATION RECORDS

PERIOD OF RECORD.--March 1999 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=372532104093001

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,460 ft above NGVD of 1929, from topographic map.

REMARKS.--Records during November through February are less accurate than the rest of the published records.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.35 inches, July 17, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 0.85 inch, Aug. 30.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.01	0.08	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.26
4	0.00	0.01	0.17	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.14	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.08	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
7	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.19
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
9	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.08
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
11	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.07
14	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.01	0.00	0.00	0.00	0.00	0.16	0.04	0.00	0.17	0.00	0.00
16	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.60	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.05	0.22	0.00	0.00	0.01	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.10	0.04	0.18	0.01	0.00	0.21	0.02	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
22	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.01	0.00	0.02	0.00	0.00	0.10	0.00	0.12	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
27	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00
28	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.53	0.01	0.00
29	0.02	0.00	0.00	0.00	---	0.00	0.00	0.00	0.38	0.00	0.20	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.85	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.07	---	0.00	0.00	---
TOTAL	0.58	0.13	0.19	0.05	0.22	0.60	0.39	0.26	1.72	1.07	2.32	0.82
MAX	0.35	0.10	0.17	0.03	0.10	0.22	0.18	0.12	0.60	0.53	0.85	0.26
WTR YR	2003	TOTAL	8.35	MAX	0.85							

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE—Continued

372721103595601 CIG PIPELINE SOUTH METEOROLOGICAL STATION 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 Maneuver 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.--July 1983 to September 1998, published as Taylor Arroyo Rain Gage at Pipeline near Simpson. October 1998, May 1999 to current year. Site was part of a hydrologic study 1983-92, data published elsewhere. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=372721103595601

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,220 ft above NGVD of 1929, from topographic map.

REMARKS.--Records during November through February and estimated daily precipitation are less accurate than the rest of the published records. Daily precipitation estimated using method based on NOAA Technical Memo NWS HYDRO 14, 1972.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 4.59 inches, July 27, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.12 inches, Aug. 8.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.00	0.02	0.00	0.11	e0.00	e0.00	e0.00	0.00	0.02	0.00	0.00	0.00
2	e0.01	0.00	0.00	0.00	e0.00	e0.07	e0.00	0.01	0.07	0.00	0.00	0.00
3	e0.01	0.00	0.02	0.00	e0.05	e0.02	e0.00	0.00	0.00	0.00	0.00	0.21
4	e0.00	0.01	0.25	0.00	e0.00	e0.00	e0.00	0.00	0.13	0.00	0.29	0.00
5	e0.00	0.00	0.00	0.00	e0.00	0.00	e0.09	0.00	0.62	0.00	0.11	0.00
6	e0.00	0.00	0.00	0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.42
7	e0.00	0.00	0.00	0.00	e0.03	0.04	e0.00	0.00	0.02	0.00	0.00	0.01
8	e0.00	0.00	0.00	e0.00	e0.01	0.00	e0.00	0.00	0.00	0.00	1.12	0.00
9	e0.00	0.14	0.00	e0.00	e0.00	0.00	e0.01	0.00	0.00	0.00	0.00	0.09
10	e0.00	0.00	0.00	e0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
11	e0.00	0.00	0.00	e0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
12	e0.00	0.00	0.00	e0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
13	e0.00	0.02	0.00	e0.00	e0.00	0.00	e0.00	0.00	0.22	0.00	0.00	0.08
14	e0.00	0.02	0.00	e0.00	e0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	e0.00	0.02	0.00	e0.00	e0.00	0.00	e0.20	0.53	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	e0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	e0.00	e0.00	0.00	e0.00	0.00	0.37	0.00	0.00	0.00
18	0.00	0.00	0.00	e0.00	e0.03	0.03	e0.00	0.00	0.02	0.00	0.00	0.00
19	0.00	0.00	0.04	e0.00	e0.12	0.24	0.35	0.01	0.00	0.13	0.01	0.00
20	0.00	0.00	0.00	e0.00	e0.00	e0.20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	e0.00	e0.00	e0.14	0.00	0.00	0.00	0.00	0.00	0.00
22	0.01	0.00	0.00	e0.00	e0.00	e0.01	0.00	0.00	0.00	0.00	0.00	0.00
23	0.01	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.01	0.00	0.08	e0.00	e0.00	e0.02	0.00	0.06	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	e0.00	e0.00	e0.01	0.00	0.00	0.00	0.01	0.01	0.00
26	0.42	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.18	0.00	0.00	e0.00	e0.00	e0.02	0.00	0.00	0.00	0.07	0.00	0.00
28	0.01	0.00	0.00	e0.00	e0.03	e0.00	0.00	0.00	0.00	0.13	0.00	0.00
29	0.05	0.00	0.00	e0.00	---	e0.00	0.00	0.00	0.12	0.00	0.18	0.00
30	0.00	0.00	0.00	e0.00	---	e0.00	0.00	0.00	0.00	0.00	0.29	0.00
31	0.01	---	0.00	e0.00	---	e0.00	---	0.09	---	0.00	0.00	---
TOTAL	0.72	0.23	0.39	0.11	0.30	0.80	0.65	0.70	1.59	0.34	2.01	0.81
MAX	0.42	0.14	0.25	0.11	0.12	0.24	0.35	0.53	0.62	0.13	1.12	0.42
WTR YR	2003	TOTAL	8.65	MAX	1.12							

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE—Continued

372249103573302 GUTIERREZ WINDMILL METEOROLOGICAL STATION NEAR MODEL, CO

LOCATION.--Lat 37°22'49", long 103°57'33", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.36, T.30 S., R.59 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site 0.9 mi south of Military Supply Road 2, 16 mi east of Model, and 33 mi northeast of Trinidad.

PRECIPITATION RECORDS

PERIOD OF RECORD.--March 1999 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=372249103573302

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,130 ft above NGVD of 1929, from topographic map.

REMARKS.--Records during November through February are less accurate than the rest of the published records.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.43 inches, Aug. 21, 2000 and July 22, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.24 inches, June 17.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.02	0.00	0.25	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.01	0.00	0.01	0.00
3	0.01	0.00	0.10	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.16
4	0.00	0.01	0.28	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.28	0.01
5	0.00	0.01	0.03	0.00	0.00	0.00	0.20	0.00	0.36	0.00	0.11	0.00
6	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
7	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.28
8	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	1.18	0.00
9	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.17
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.03
14	0.00	0.03	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.04	0.00	0.00	0.00	0.00	0.27	0.08	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	1.24	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.01	0.07	0.00	0.00	0.00	0.00	0.02	0.00
19	0.00	0.00	0.08	0.00	0.18	0.33	0.31	0.01	0.00	0.16	0.53	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00
22	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
26	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.13	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.03	0.00	0.00
28	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.12	0.00	0.00
29	0.04	0.00	0.00	0.00	---	0.00	0.00	0.00	0.14	0.00	0.38	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.01	0.00	0.00	0.28	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.02	---	0.00	0.00	---
TOTAL	0.62	0.23	0.64	0.25	0.31	0.67	0.79	0.27	2.45	0.31	3.21	0.90
MAX	0.39	0.12	0.28	0.25	0.18	0.33	0.31	0.15	1.24	0.16	1.18	0.28
WTR YR	2003	TOTAL	10.65	MAX	1.24							

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE—Continued

372701103514501 MINCIC METEOROLOGICAL STATION NEAR HOUGHTON, CO

LOCATION.--Lat 37°27'01", long 103°51'45", in NE¹/₄NE¹/₄ sec.11, T.30 S., R.58 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site approximately 0.1 mi west of Military Supply Road 4A, 0.7 mi south of Military Supply Road 4, 14 mi southeast of Houghton, and 40 mi northeast of Trinidad.

PRECIPITATION RECORDS

PERIOD OF RECORD.--May 1999 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=372701103514501

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,078 ft above NGVD of 1929, from topographic map.

REMARKS.--Records during November through February are less accurate than the rest of the published records.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.08 inches, Aug. 3, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 0.65 inch, Mar. 19.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.09	0.00	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
2	0.00	0.00	0.00	0.08	0.00	0.01	0.00	0.03	0.02	0.00	0.00	0.00
3	0.00	0.00	0.08	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.12
4	0.00	0.01	0.16	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.14	0.00
5	0.00	0.00	0.02	0.00	0.00	0.00	0.18	0.00	0.62	0.00	0.30	0.00
6	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.24
7	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.02	0.00	0.00	0.47
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00
9	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.20
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.09
14	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
15	0.00	0.07	0.00	0.00	0.00	0.00	0.38	0.17	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.47	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.03	0.09	0.00	0.00	0.02	0.00	0.02	0.00
19	0.00	0.00	0.06	0.00	0.05	0.65	0.39	0.01	0.01	0.13	0.02	0.00
20	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.01	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
22	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
23	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.01	0.00	0.08	0.00	0.00	0.07	0.00	0.10	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.07	0.00
26	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.10	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.01	0.00	0.00
28	0.01	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.22	0.00	0.00
29	0.03	0.00	0.00	0.00	---	0.00	0.00	0.00	0.01	0.00	0.10	0.00
30	0.01	0.00	0.00	0.00	---	0.00	0.00	0.54	0.00	0.00	0.18	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.57	0.31	0.51	0.16	0.20	1.23	0.96	0.86	1.61	0.36	0.96	1.13
MAX	0.36	0.13	0.16	0.08	0.05	0.65	0.39	0.54	0.62	0.22	0.30	0.47
WTR YR	2003	TOTAL	8.86	MAX	0.65							

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE—Continued

373706103410701 ROURKE METEOROLOGICAL STATION NEAR HIGBEE, CO

LOCATION.--Lat 37°37'06", long 103°41'07", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.9, T.28 S., R.56 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site 0.8 mi south of Military Supply Road 1A, 3.1 mi northwest of Rourke Ranch, 16 mi southwest of Higbee, and 26 mi south of La Junta.

PRECIPITATION RECORDS

PERIOD OF RECORD.--May 1999 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=373706103410701

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 4,700 ft above NGVD of 1929, from topographic map.

REMARKS.--Records during November through February and estimated daily precipitation are less accurate than the rest of the published records. Daily precipitation estimated using method based on NOAA Technical Memo NWS HYDRO 14, 1972.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 2.05 inches, July 11, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.15 inches, July 15.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.01	0.07	0.00	0.23	0.00	e0.00	0.00	0.00	0.03	0.00	0.00	0.00
2	0.01	0.00	0.00	0.20	0.00	e0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.01	0.00	0.04	e0.00	0.00	0.00	0.00	0.00	0.00	0.09
4	0.00	0.02	0.11	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.08	0.00
5	0.00	0.00	0.12	0.00	0.00	0.00	0.28	0.00	0.75	0.00	0.07	0.00
6	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.03	0.00	0.00	0.00	0.08
7	0.00	0.00	0.00	0.00	e0.06	0.00	0.14	0.00	0.01	0.00	0.00	0.07
8	0.00	0.00	0.00	0.00	e0.01	0.00	0.01	0.00	0.00	0.00	0.02	0.00
9	0.00	0.04	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
10	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.01
11	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.01	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.13
14	0.00	0.00	0.00	0.00	e0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.18	0.00	0.00	e0.00	0.00	0.82	0.16	0.00	1.15	0.00	0.00
16	0.00	0.00	0.00	0.00	e0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	e0.00	0.19	0.00	0.00	0.11	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	e0.00	0.10	0.00	0.00	0.12	0.00	0.03	0.00
19	0.00	0.00	0.10	0.00	e0.06	0.81	0.87	0.00	0.00	0.18	0.04	0.00
20	0.00	0.00	0.00	0.00	e0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	e0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00
22	0.03	0.00	0.00	0.00	e0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
23	0.02	0.00	0.00	0.00	e0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
24	0.01	0.00	0.19	0.00	e0.00	0.15	0.00	0.99	0.00	0.00	0.00	0.00
25	0.01	0.00	0.02	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00
26	0.35	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.10	0.00	0.00	0.00	e0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	e0.04	0.00	0.17	0.00	0.31	0.41	0.00	0.00
29	0.04	0.00	0.00	0.00	---	0.00	0.00	0.00	0.13	0.00	0.07	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.01	0.00	0.00	0.29	0.00
31	0.02	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.60	0.31	0.56	0.44	0.25	1.49	2.38	1.22	2.29	1.74	0.68	0.48
MAX	0.35	0.18	0.19	0.23	0.06	0.81	0.87	0.99	0.77	1.15	0.29	0.13

WTR YR 2003 TOTAL 12.44 MAX 1.15

e Estimated.

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE—Continued

372329104020501 ROUTE TWO WINDMILL METEOROLOGICAL STATION NEAR TYRONE, CO

LOCATION.--Lat 37°23'29", long 104°02'05", in NW¼NE¼ sec.32, T.30 S., R.59 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site 0.3 mi south of Military Supply Road 2, 4.6 mi east of Brown Sheep Camp, 10 mi southeast of Tyrone, and 30 mi northeast of Trinidad.

PRECIPITATION RECORDS

PERIOD OF RECORD.--May 1999 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=372329104020501

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 5,255 ft above NGVD of 1929, from topographic map.

REMARKS.--Records during November through February are less accurate than the rest of the published records.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.76 inches, July 22, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.49 inches, June 17.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.01	0.00	0.19	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
2	0.00	0.00	0.00	0.02	0.00	0.06	0.00	0.00	0.01	0.00	0.00	0.00
3	0.01	0.00	0.03	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.19
4	0.00	0.01	0.20	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.12	0.00
5	0.00	0.00	0.05	0.00	0.00	0.00	0.17	0.00	0.49	0.00	0.18	0.00
6	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.49
7	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.04	0.00	0.00	0.12
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00
9	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.10
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.03
14	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.04	0.00	0.00	0.01	0.00	0.19	0.31	0.00	0.01	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.08	0.00	0.19	0.23	0.28	0.02	0.00	0.05	0.06	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
22	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
23	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.01	0.00	0.12	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
25	0.00	0.00	0.03	0.00	0.00	0.01	0.00	0.08	0.00	0.35	0.00	0.00
26	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.17	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.60	0.00	0.00
28	0.01	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00
29	0.06	0.00	0.00	0.00	---	0.00	0.00	0.00	0.08	0.00	0.20	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.06	0.00	0.00	0.24	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.06	---	0.00	0.00	---
TOTAL	0.78	0.15	0.64	0.21	0.38	0.58	0.65	0.76	2.36	1.20	1.78	0.93
MAX	0.48	0.09	0.20	0.19	0.19	0.23	0.28	0.31	1.49	0.60	0.72	0.49
WTR YR	2003	TOTAL	10.42	MAX	1.49							

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE—Continued

373823103465601 UPPER BENT CANYON METEOROLOGICAL STATION NEAR DELHI, CO

LOCATION.--Lat 37°38'20", long 103°46'55", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.3, T.28 S., R.57 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site approximately 80 ft north of Military Supply Road 1A, 1.2 mi above Stage Canyon, 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.--July 1983 to September 1998, published as Bent Canyon Rain Gage above Stage Canyon near Delhi. October 1998, May 1999 to current year. Site was part of a hydrologic study 1983-92, data published elsewhere. For a complete listing of data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=373823103465601

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 4,860 ft above NGVD of 1929, from topographic map.

REMARKS.--Records during November through February are less accurate than the rest of the published records.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 2.81 inches, May 24, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 2.81 inches, May 24.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.10	0.00	0.15	0.00	0.01	0.00	0.00	0.03	0.00	0.00	0.00
2	0.00	0.01	0.00	0.10	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3	0.01	0.00	0.00	0.07	0.10	0.00	0.00	0.00	0.16	0.00	0.00	0.12
4	0.00	0.07	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
5	0.00	0.00	0.07	0.00	0.00	0.00	0.34	0.00	1.35	0.00	0.06	0.00
6	0.00	0.00	0.00	0.00	0.01	0.00	0.14	0.05	0.01	0.00	0.21	0.34
7	0.00	0.00	0.00	0.00	0.03	0.00	0.20	0.00	0.00	0.00	0.00	0.01
8	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.04	0.00
9	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.18
14	0.00	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01
15	0.00	0.19	0.00	0.00	0.00	0.00	1.09	0.44	0.00	0.61	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.01	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	1.27	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.06	0.00	0.07	0.00
19	0.00	0.00	0.07	0.00	0.07	0.86	1.28	0.00	0.10	0.03	0.07	0.00
20	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00
22	0.06	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
23	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.07	0.00	0.00	0.00	0.00
24	0.02	0.00	0.01	0.00	0.00	0.22	0.05	2.81	0.00	0.00	0.00	0.00
25	0.01	0.00	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.02	0.00
26	0.21	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.02	0.00	0.06	0.00	0.00	0.11	0.00	0.00	0.00	0.02	0.00	0.00
28	0.00	0.00	0.00	0.00	0.05	0.00	0.07	0.00	0.01	0.37	0.00	0.00
29	0.02	0.00	0.00	0.00	---	0.00	0.00	0.00	0.59	0.00	0.03	0.00
30	0.01	0.00	0.00	0.00	---	0.00	0.00	0.03	0.00	0.00	0.27	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.37	0.44	0.39	0.32	0.31	2.11	3.24	3.40	4.39	1.04	0.79	0.74
MAX	0.21	0.19	0.12	0.15	0.10	0.86	1.28	2.81	1.35	0.61	0.27	0.34
WTR YR	2003	TOTAL	17.54	MAX	2.81							

PRECIPITATION DATA AT SITES ON PINON CANYON MANEUVER SITE—Continued

373315103493101 UPPER RED ROCK CANYON METEOROLOGICAL STATION NEAR HOUGHTON, CO

LOCATION.--Lat 37°33'12", long 103°49'30", in NE¹/₄ NE¹/₄ sec.6, T.29 S., R.57 W., Las Animas County, Hydrologic Unit 11020010, on Pinon Canyon Maneuver Site approximately 100 ft west of unnumbered Military Supply Road, 0.4 mi south of Military Supply Road 1, 12.2 mi southeast of Houghton, and 33 mi southwest of La Junta.

PRECIPITATION RECORDS

PERIOD OF RECORD.--August 1983 to September 1998, published as Red Rock Canyon Rain Gage at Red Rock Road. October 1998, September 1999 to current year. Site was part of a hydrologic study 1983-92, data published elsewhere. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=373315103493101

GAGE.--Tipping-bucket rain gage with radio telemetry and electronic data logger. Elevation of gage is 4,860 ft above NGVD of 1929, from topographic map.

REMARKS.--Records during November through February are less accurate than the rest of the published records.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 2.75 inches, July 19, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.19 inches, June 17.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.07	0.00	0.17	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
2	0.00	0.01	0.00	0.09	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00
3	0.03	0.00	0.02	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.13
4	0.00	0.03	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.01
5	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.70	0.00	0.07	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.64
7	0.00	0.00	0.00	0.01	0.05	0.00	0.04	0.00	0.01	0.00	0.00	0.23
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00
9	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.01
11	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.13
14	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.01
15	0.00	0.13	0.00	0.00	0.00	0.00	0.84	0.26	0.00	0.09	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	1.19	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.01	0.00	0.04	0.00
19	0.00	0.00	0.05	0.00	0.05	0.84	0.58	0.01	0.00	0.02	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.01	0.00	0.00	0.00	0.05
21	0.00	0.00	0.00	0.00	0.01	0.13	0.00	0.00	0.00	0.00	0.00	0.00
22	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
23	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.01	0.00	0.14	0.00	0.00	0.03	0.00	0.28	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.02	0.01	0.00
26	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
28	0.01	0.00	0.00	0.00	0.03	0.00	0.16	0.00	0.00	0.27	0.00	0.00
29	0.02	0.00	0.00	0.00	---	0.00	0.00	0.00	0.19	0.00	0.05	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.15	0.00	0.00	0.36	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.02	---	0.00	0.00	---
TOTAL	0.42	0.35	0.42	0.29	0.21	1.63	2.03	0.73	2.56	0.40	0.74	1.34
MAX	0.24	0.13	0.21	0.17	0.06	0.84	0.84	0.28	1.19	0.27	0.36	0.64
WTR YR	2003	TOTAL	11.12	MAX	1.19							

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

06614800 MICHIGAN RIVER NEAR CAMERON PASS, CO (LAT 40 29 46N LONG 105 51 52W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 01...	1531	0.66	66	7.5	APR 10...	1020	0.36	58	1.0
17...	1555	0.57	67	4.0	MAY 14...	0905	0.45	58	1.0
NOV 19...	1232	0.49	62	1.5	JUL 15...	1809	7.0	44	8.5
JAN 14...	0920	0.27	63	1.0	SEP 09...	1153	1.2	58	8.5
MAR 05...	1010	0.44	57	0.5					

06693800 MOSQUITO CREEK NEAR ALMA, CO (LAT 39 16 12N LONG 106 03 02W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
FEB 26...	0925	3.4	320	0.0	MAR 26...	1040	7.0	318	0.0

06696980 TARRYALL CREEK AT UPPER STATION, NEAR COMO, CO (LAT 39 20 22N LONG 105 54 37W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
MAR 26...	1245	3.5	205	0.0	JUL 10...	1030	26	148	8.5

06700000 SOUTH PLATTE RIVER ABOVE CHEESMAN LAKE, CO (LAT 39 09 46N LONG 105 18 38W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 28...	0000	66	419	6.5	APR 10...	1415	97	386	9.0
DEC 03...	1215	367	471	1.5					

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

06701900 SOUTH PLATTE RIVER BELOW BRUSH CREEK NEAR TRUMBULL, CO (LAT 39 15 36N LONG 105 13 17W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
NOV 13...	1435	84	458	6.5	FEB 20...	1300	108	454	4.0
DEC 17...	1040	127	478	2.5					

06701970 SPRING CREEK ABOVE MOUTH NEAR SOUTH PLATTE, CO (LAT 39 23 37N LONG 105 11 01W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 17...	1350	0.63	219	13.0

06706400 NORTH FORK SOUTH PLATTE RIVER ABOVE ELK CREEK AT PINE, CO (LAT 39 24 27N LONG 105 19 07W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
JUL 01...	1215	242	84	14.5

06706800 BUFFALO CREEK AT MOUTH AT BUFFALO CREEK, CO (LAT 39 23 27N LONG 105 16 15W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
NOV 14...	1045	15	74	3.0	JUL 01...	1410	7.7	94	18.0

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

06709000 PLUM CREEK NEAR SEDALIA, CO (LAT 39 26 18N LONG 104 58 57W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 21...	1345	4.7	607	14.5	SEP 10...	1315	7.7	612	20.0

06709530 PLUM CREEK AT TITAN RD NEAR LOUVIERS, CO (LAT 39 30 27N LONG 105 01 23W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
DEC 16...	1510	9.5	611	2.0

06710247 SOUTH PLATTE RIVER BELOW UNION AVE, AT ENGLEWOOD, CO (LAT 39 37 58N LONG 105 00 54W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
NOV 15...	1235	10	1,040	7.5	JUN 04...	1315	251	760	15.0
DEC 12...	1100	5.2	822	3.0	JUL 02...	1000	265	672	20.0
MAR 13...	1100	10	1,090	12.5	AUG 11...	1015	136	857	18.0
MAR 27...	1150	355	658	8.0					
MAY 19...	1000	246	868	11.5					

06710385 BEAR CREEK ABOVE EVERGREEN, CO (LAT 39 37 58N LONG 105 19 59W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 23...	1425	7.8	76	1.0	APR 09...	1512	53	153	6.0
FEB 24...	1449	5.0	94	0.0	SEP 15...	1050	32	49	6.5

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

06710605 BEAR CREEK ABOVE BEAR CREEK LAKE NEAR MORRISON, CO (LAT 39 39 08N LONG 105 10 23W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
FEB 24...	1240	0.21	1,070	0.0	APR 11...	1420	20	350	8.5
MAR 24...	1414	0.88	1,490	6.5	SEP 15...	1255	14	164	11.0

06710992 TURKEY CREEK NEAR INDIAN HILLS, CO (LAT 39 37 03N LONG 105 13 24W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 03...	1100	3.5	664	6.5	SEP 05...	1155	0.66	650	14.0
FEB 26...	1220	0.43	1,640	0.0					

06712000 CHERRY CREEK NEAR FRANKTOWN, CO (LAT 39 21 21N LONG 104 45 46W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 01...	1420	1.9	201	15.0	SEP 17...	1320	1.5	203	18.0
JUL 28...	1215	1.7	248	22.0					

393109104464500 CHERRY CREEK NEAR PARKER, CO (LAT 39 31 09N LONG 104 46 45W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 01...	1135	1.9	571	14.2

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

06713000 CHERRY CREEK BELOW CHERRY CREEK LAKE, CO (LAT 39 39 12N LONG 104 51 41W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 03...	1350	21	945	15.5	SEP 18...	1525	23	863	17.7
APR 01...	1115	84	954	--					

06713300 CHERRY CREEK AT GLENDALE, CO (LAT 39 42 22N LONG 104 56 13W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 21...	1420	1.9	1,350	13.0	JUL 30...	1425	15	1,800	25.5
APR 02...	1420	93	1,010	13.0	SEP 18...	1345	31	934	18.0

06713500 CHERRY CREEK AT DENVER, CO (LAT 39 44 58N LONG 105 00 08W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 04...	0845	23	1,010	10.5	SEP 18...	1118	36	980	14.5

06714215 SOUTH PLATTE RIVER AT 64TH AVE. COMMERCE CITY, CO (LAT 39 48 44N LONG 104 57 28W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 09...	1300	8.4	1,480	17.5	APR 22...	1155	161	672	12.0
DEC 30...	1150	6,360	2,150	8.5	MAY 09...	1208	15	1,620	12.5
JAN 27...	1030	70	1,390	8.5	JUN 12...	1155	46	755	21.5
FEB 21...	1050	11	1,950	9.0	JUL 25...	1820	26	863	23.0

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

394839104570300 SAND CREEK AT MOUTH NEAR COMMERCE CITY, CO (LAT 39 48 39N LONG 104 57 03W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 03...	1445	31	1,090	18.0	MAY 09...	1430	18	1,770	11.5
NOV 12...	1205	12	1,780	12.0	JUN 12...	1350	12	1,570	26.0
DEC 30...	1415	11	1,630	11.0	JUL 25...	1610	11	1,380	25.0
JAN 27...	1208	12	1,660	13.0	AUG 26...	1215	11	1,680	26.0
FEB 21...	1230	11	1,720	13.5					
APR 22...	1520	24	1,520	21.5					

06714800 LEAVENWORTH CREEK AT MOUTH NEAR GEORGETOWN, CO (LAT 39 41 14N LONG 105 41 59W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 01...	1150	3.5	127	7.0

394308105413800 CLEAR CREEK ABOVE GEORGETOWN LAKE NEAR GEORGETOWN, CO (LAT 39 43 08N LONG 105 41 38W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 01...	1040	A22	162	7.0	AUG 26...	1051	67	140	10.5
MAR 28...	1215	21	336	0.5	SEP 22...	1335	58	141	8.5
APR 30...	1108	35	385	4.0					

A -- Value is an average.

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

394359105411900 CLEAR CREEK BELOW GEORGETOWN LAKE NEAR GEORGETOWN, CO (LAT 39 43 59N LONG 105 41 19W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 03...	1105	30	156	8.0

06715000 CLEAR CREEK ABOVE WEST FORK CLEAR CREEK NEAR EMPIRE, CO (LAT 39 45 07N LONG 105 39 41W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 03...	0840	28	162	8.0	JUL 18...	1040	164	98	12.5
MAR 28...	1040	9.0	276	2.0	AUG 26...	0950	78	140	12.5
APR 30...	0952	38	406	8.5	SEP 22...	1035	58	155	8.5

06716100 WEST FORK CLEAR CREEK ABOVE MOUTH NEAR EMPIRE, CO (LAT 39 45 32N LONG 105 39 34W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 03...	1235	30	255	8.0	JUL 23...	1035	104	174	11.0
FEB 19...	1425	8.5	341	0.5	AUG 27...	1141	49	189	12.0

06716500 CLEAR CREEK NEAR LAWSON, CO (LAT 39 45 57N LONG 105 37 32W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 09...	1040	41	219	8.0

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

06717400 CHICAGO CREEK BELOW DEVILS CANYON NEAR IDAHO SPRINGS, CO (LAT 39 42 58N LONG 105 34 15W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 09...	1125	5.8	55	6.0	SEP 15...	1700	17	66	9.0
JUL 14...	1444	21	51	13.0					

06718300 CLEAR CREEK ABOVE JOHNSON GULCH NEAR IDAHO SPRINGS, CO (LAT 39 44 47N LONG 105 26 08W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 01...	1320	67	240	10.0	JUL 25...	1000	336	147	15.0

06718550 NORTH CLEAR CREEK ABOVE MOUTH NEAR BLACKHAWK, CO (LAT 39 44 56N LONG 105 23 57W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 03...	1315	5.5	596	14.0	MAR 06...	1315	2.5	1,220	4.5
NOV 22...	1410	2.3	739	2.5	SEP 08...	1747	5.5	405	16.5
JAN 15...	1410	1.5	834	1.0					

06719505 CLEAR CREEK AT GOLDEN, CO (LAT 39 45 11N LONG 105 14 05W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 01...	0840	54	265	9.0	AUG 29...	1125	133	417	15.5
APR 14...	1240	166	382	8.5					

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

06720820 BIG DRY CREEK AT WESTMINSTER, CO (LAT 39 54 20N LONG 105 02 04W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
JAN 16...	0915	1.2	280	0.5	MAY 08...	1200	4.0	1,860	14.0
MAR 13...	0925	1.4	2,760	10.0	AUG 08...	0800	8.6	827	19.5
APR 07...	1040	12	1,770	6.0	SEP 19...	0930	3.9	1,830	12.0

06720990 BIG DRY CREEK AT MOUTH NEAR FORT LUPTON, CO (LAT 40 04 09N LONG 104 49 52W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
DEC 16...	1135	32	1,320	4.0	MAY 14...	0720	68	1,330	13.0
JAN 02...	1320	22	1,570	2.5	JUN 11...	0840	17	855	16.5
03...	0945	22	1,540	1.5	JUL 02...	0915	37	1,650	23.0
MAR 03...	1330	23	1,410	8.5	SEP 02...	0810	9.5	1,030	23.0
APR 04...	1140	56	1,430	11.0					

06721000 SOUTH PLATTE RIVER AT FORT LUPTON, CO (LAT 40 06 58N LONG 104 49 05W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
JUN 10...	1340	781	600	20.0	SEP 02...	1325	369	871	23.0
JUL 03...	0905	658	599	20.0					

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

06725450 ST. VRAIN CREEK BELOW LONGMONT, CO (LAT 40 09 29N LONG 105 00 53W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 18...	1045	44	1,740	10.0	MAY 13...	1345	79	1,100	19.0
DEC 20...	1020	29	1,260	1.5	JUN 10...	1100	113	1,020	17.5
JAN 02...	1115	27	1,230	3.0	JUL 01...	1045	156	696	19.0
MAR 03...	1015	28	1,240	6.5	JUL 01...	1100	156	696	19.0
APR 04...	1005	52	1,140	9.5	SEP 02...	1145	106	903	18.5

06730200 BOULDER CREEK AT NORTH 75TH STREET NEAR BOULDER, CO (LAT 40 03 06N LONG 105 10 42W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 02...	0955	137	503	17.0

06730400 COAL CREEK NEAR LOUISVILLE, CO (LAT 39 58 34N LONG 105 07 00W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 02...	1100	2.7	385	12.0	AUG 18...	1053	0.38	962	20.5
MAR 13...	1250	0.26	1,260	15.5					

06730500 BOULDER CREEK AT MOUTH, NEAR LONGMONT, CO (LAT 40 09 08N LONG 105 00 52W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 18...	0915	4.2	1,310	8.5	APR 04...	0950	129	633	8.5
DEC 20...	0900	22	966	0.0	MAY 13...	1145	83	739	16.0
JAN 02...	1105	24	912	0.5	JUN 10...	0940	136	425	15.0
MAR 03...	0950	30	972	4.0	JUL 01...	0915	109	386	18.0

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

06746095 JOE WRIGHT CREEK ABOVE JOE WRIGHT RESERVOIR, CO (LAT 40 32 24N LONG 105 52 56W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 01...	1422	0.63	77	8.5	MAY 14...	1400	1.4	86	1.0
17...	1433	0.74	75	4.0	JUL 15...	1615	28	48	11.0
MAR 05...	1555	0.60	83	0.0	SEP 09...	1600	5.7	61	10.5
APR 10...	1435	0.78	86	0.0					

06746110 JOE WRIGHT CREEK BELOW JOE WRIGHT RESERVOIR, CO (LAT 40 33 43N LONG 105 52 09W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 01...	1322	1.5	46	6.5	MAY 13...	1425	1.5	70	2.0
17...	1306	1.4	48	3.0	JUL 15...	1345	42	40	6.0
NOV 19...	1613	1.3	49	0.5	SEP 09...	1345	2.1	41	8.0
MAR 04...	1500	1.3	56	0.5					
APR 09...	1300	1.4	59	2.0					

06751150 NORTH FORK CACHE LA POUDE RIVER BELOW HALLIGAN RESERVOIR NEAR VIRGINIA DALE, CO (LAT 40 52 42N LONG 105 20 15W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 01...	1500	7.0	190	11.5	APR 01...	1135	1.5	158	9.0
NOV 20...	1423	4.2	177	3.0					

06751490 NORTH FORK CACHE LA POUDE R. AT LIVERMORE, CO (LAT 40 47 15N LONG 105 15 06W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 28...	1019	4.5	345	5.5	APR 01...	1335	100	171	7.0

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

06759500 SOUTH PLATTE RIVER AT FORT MORGAN, CO (LAT 40 16 08N LONG 103 48 02W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
NOV 20...	1635	184	1,660	10.0

06821360 ARIDAREE RIVER ABV SPRING CANYON NR IDALIA, CO (LAT 39 45 07N LONG 102 24 42W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 08...	1500	0.15	511	16.5	MAY 12...	1235	5.2	496	8.0
FEB 24...	1330	3.1	460	2.5					

07079195 EAST FORK ARKANSAS RIVER AT HIGHWAY 91 NEAR LEADVILLE, CO (LAT 39 17 09N LONG 106 16 45W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat unf uS/cm 25 degC (00095)
OCT 02...	1100	9.6	213	MAY 07...	1135	9.8	210
NOV 06...	1245	8.1	224	MAY 29...	1145	250	87
DEC 04...	1140	8.7	230	JUN 04...	1200	214	97
JAN 08...	1545	4.0	216	JUL 02...	0940	74	118
FEB 05...	1250	5.1	224	AUG 06...	1045	24	169
MAR 05...	1010	4.2	221	SEP 03...	1420	21	181
APR 02...	1430	5.7	216				

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003--Continued

07079300 EAST FORK ARKANSAS RIVER AT US HWY 24 NEAR LEADVILLE, CO (LAT 39 16 21N LONG 106 18 21W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat un f uS/cm 25 degC (00095)	Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat un f uS/cm 25 degC (00095)
OCT 02...	1125	14	339	MAY 07...	1235	14	342
NOV 06...	1430	13	327	NOV 29...	1300	375	110
DEC 04...	1245	13	388	JUN 04...	1745	238	116
JAN 08...	1425	8.5	372	JUL 02...	1025	89	144
FEB 05...	1345	9.5	380	AUG 06...	1130	27	210
MAR 05...	1105	6.1	390	SEP 03...	1515	26	236
APR 02...	1535	9.0	369				

07081200 ARKANSAS RIVER NEAR LEADVILLE, CO (LAT 39 15 26N LONG 106 20 35W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 02...	1230	23	237	--	MAY 07...	1345	37	186	7.0
NOV 06...	1500	21	305	--	NOV 29...	1445	590	78	12.0
DEC 04...	1415	16	296	--	JUN 30...	1500	144	113	13.5
FEB 05...	1445	13	274	--	JUL 24...	1400	48	161	17.5
MAR 06...	1305	12	292	--	AUG 07...	1115	36	190	--
APR 03...	1045	18	217	--	SEP 04...	1200	32	204	--

07083000 HALFMOON CREEK NEAR MALTA, CO (LAT 39 10 20N LONG 106 23 19W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat un f uS/cm 25 degC (00095)	Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat un f uS/cm 25 degC (00095)
OCT 02...	1500	9.5	101	JUN 04...	1515	121	57
NOV 05...	1545	7.5	103	NOV 30...	1200	82	61
DEC 10...	1245	3.4	107	JUL 24...	1200	32	76
APR 03...	1310	3.5	93	AUG 06...	1530	23	84
APR 28...	1500	9.3	83	SEP 04...	1040	18	102
MAY 29...	0930	184	43	SEP 17...	1300	27	103

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

07087050 ARKANSAS RIVER BELOW GRANITE, CO (LAT 38 59 42N LONG 106 13 11W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)
OCT 03...	1130	138	170	JUL 14...	1745	694	91
APR 04...	1015	169	119	AUG 20...	1515	204	157
MAY 08...	1100	239	122	SEP 04...	1520	202	145
MAY 29...	1110	2,060	92				

07099215 TURKEY CREEK NEAR FOUNTAIN, CO (LAT 38 36 42N LONG 104 53 39W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf lab, uS/cm 25 degC (90095)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
MAR 27...	1230	1.2	--	370	7.5
JUL 01...	1700	0.25	309	--	16.0

07099990 FOUNTAIN CREEK AT GREEN MOUNTAIN FALLS, CO (LAT 38 56 20N LONG 105 00 55W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
DEC 09...	1530	0.60	678	2.5	JUL 09...	1700	0.38	--	17.0
JAN 08...	1448	0.64	677	4.5	SEP 05...	1315	0.37	--	16.0
MAY 06...	1448	1.5	434	9.5					

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

07103740 NORTH MONUMENT CREEK AT SPRING STREET AT PALMER LAKE, CO (LAT 39 06 56N LONG 104 54 43W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unflab, uS/cm 25 degC (90095)	Specific conductance, wat unflab, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
MAR					
24...	1245	0.37	--	179	--
31...	1700	1.1	--	160	--
APR					
02...	1745	2.8	--	112	2.5
09...	1250	4.5	--	95	--
14...	1355	11	--	90	4.5
29...	1145	21	--	81	6.0
MAY					
14...	1230	4.6	--	85	--
JUN					
12...	1430	1.6	102	--	--
JUL					
03...	1510	0.43	118	--	--

07103785 DEADMANS CREEK ABOVE DEADMANS LAKE AT U.S. AIR FORCE ACADEMY, CO (LAT 39 01 27N LONG 104 54 03W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unflab, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unflab, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
DEC					MAR				
03...	0910	0.02	148	2.0	06...	0905	0.04	97	0.5
JAN					31...	1135	0.09	112	7.0
02...	1300	0.01	102	2.0	MAY				
FEB					14...	1435	0.18	108	10.0
04...	1500	0.02	96	2.0	JUN				
					09...	1600	0.06	122	11.0

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

**07103790 MONUMENT CREEK BELOW SEWAGE TREATMENT PLANT AT U.S. AIR FORCE ACADEMY, CO
(LAT 38 58 53N LONG 104 49 50W)**

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat unf lab, uS/cm 25 degC (90095)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
NOV 04...	1500	5.2	--	470	5.0
DEC 02...	1435	4.2	--	447	4.0
MAR 24...	1610	10	--	451	5.0
MAR 31...	0845	7.6	--	504	4.0
MAY 14...	1545	17	--	291	19.5
JUN 09...	1330	8.9	373	--	21.0
JUL 29...	1150	3.1	453	--	--
AUG 07...	1545	1.6	435	--	--
SEP 05...	1450	6.1	446	--	--

07103797 WEST MONUMENT CREEK BELOW RAMPART RESERVOIR, CO (LAT 38 58 30N LONG 104 57 18W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat unf lab, uS/cm 25 degC (90095)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
NOV 14...	1445	3.4	--	65	5.5
JAN 08...	1255	3.2	--	63	3.5
MAR 26...	1542	3.7	--	72	4.0
MAY 06...	1241	3.8	--	74	6.0
SEP 16...	1255	4.0	78	--	8.0

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

07103800 WEST MONUMENT CREEK AT U.S. AIR FORCE ACADEMY, CO (LAT 38 58 14N LONG 104 54 08W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf lab, uS/cm 25 degC (90095)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
NOV 08...	1215	0.27	--	104	3.5
DEC 03...	1015	0.35	--	103	1.5
DEC 13...	1145	0.37	--	103	0.0
JAN 02...	1350	0.27	--	99	0.5
FEB 04...	1150	0.39	--	100	0.0
MAR 06...	1015	0.34	--	100	0.5
MAR 31...	1245	0.59	--	99	4.0
JUN 05...	1025	3.1	88	--	10.5
JUL 08...	1230	3.0	91	--	--
AUG 11...	1430	2.8	98	--	--
SEP 05...	1205	4.1	98	--	--

07103930 WEST MONUMENT CREEK AT MOUTH AT U.S. AIR FORCE ACADEMY, CO (LAT 38 57 32N LONG 104 50 08W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf lab, uS/cm 25 degC (90095)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 07...	1410	0.95	--	285	13.5
NOV 04...	1635	0.76	--	216	5.5
DEC 03...	1100	0.63	--	196	3.0
JAN 02...	1445	0.12	--	207	3.5
FEB 04...	1050	0.06	--	216	3.5
MAR 06...	1050	0.10	--	226	5.0
MAR 31...	1345	0.26	--	259	10.5
MAY 14...	1705	0.79	--	229	14.0
JUN 09...	1225	0.38	241	--	15.0
JUL 29...	1350	0.08	238	--	--
AUG 15...	1345	1.1	196	--	--
SEP 05...	1055	2.6	185	--	--

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

07103940 MONUMENT CREEK AT SOUTH BOUNDARY AT U.S. AIR FORCE ACADEMY, CO (LAT 38 57 15N LONG 104 50 00W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf lab, uS/cm 25 degC (90095)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
NOV					
05...	1715	6.1	--	427	5.5
DEC					
02...	1600	5.5	--	406	3.5
30...	1550	6.3	--	430	0.5
FEB					
04...	1705	7.1	--	440	1.5
MAR					
06...	1140	5.1	--	436	3.5
24...	1715	12	--	451	6.0
31...	1520	8.6	--	479	14.0
MAY					
16...	1130	19	--	287	15.5
JUN					
09...	1140	8.5	376	--	18.0
JUL					
29...	1300	3.8	431	--	--
AUG					
11...	1655	3.4	417	--	--
SEP					
05...	0930	9.0	372	--	--

07104000 MONUMENT CREEK AT PIKEVIEW, CO (LAT 38 55 04N LONG 104 49 05W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf lab, uS/cm 25 degC (90095)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
NOV					
13...	1030	14	--	549	5.6
DEC					
13...	1650	16	--	560	0.5
APR					
08...	1445	21	--	552	16.5
24...	1420	115	--	278	13.0
MAY					
12...	1330	28	--	377	17.5
28...	1330	16	--	455	26.0
JUN					
25...	1315	16	508	--	--
AUG					
19...	1130	13	556	--	--
29...	1600	123	233	--	--
SEP					
10...	0915	18	533	--	--

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

07105490 CHEYENNE CREEK AT EVANS AVENUE AT COLORADO SPRINGS, CO (LAT 38 47 26N LONG 104 51 49W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 09...	1425	0.46	200	13.5	MAY 06...	1635	7.1	90	8.0
NOV 19...	1445	0.52	232	8.5	JUN 03...	1440	8.7	92	11.0
DEC 17...	1255	0.49	220	6.0	JUL 09...	1440	0.72	111	18.0
FEB 12...	1505	0.41	305	5.5	AUG 06...	1525	1.2	122	16.0
MAR 26...	1310	3.4	211	5.5	18...	1715	0.85	128	16.0
APR 28...	1415	5.9	93	11.0	SEP 16...	1620	0.82	131	14.5

07105945 ROCK CREEK ABOVE FORT CARSON RESERVATION, CO (LAT 38 42 27N LONG 104 50 46W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
JUL 02...	1445	0.60	202	15.5

07108900 ST. CHARLES RIVER AT VINELAND, CO (LAT 38 14 44N LONG 104 29 09W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat un f lab, uS/cm 25 degC (90095)	Specific conductance, wat un f uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 04...	1250	5.0	--	2,470	13.5
NOV 06...	1345	4.6	--	2,840	9.0
DEC 06...	1205	3.6	--	2,790	4.0
JAN 06...	1200	6.7	--	2,390	6.5
FEB 13...	1115	4.5	--	2,750	5.5
MAR 12...	1400	4.0	--	2,870	15.5
APR 04...	1045	42	--	2,740	11.0
MAY 19...	1130	49	--	896	17.0
JUN 10...	0925	52	--	1,010	--
20...	1000	98	852	--	--
JUL 02...	1015	6.8	2,330	--	--

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

07116500 HUERFANO RIVER NEAR BOONE, CO (LAT 38 13 30N LONG 104 15 37W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
JUN 06...	1035	21	899	19.0

07119500 APISHAPA RIVER NEAR FOWLER, CO (LAT 38 05 28N LONG 103 58 52W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat unf lab, uS/cm 25 degC (90095)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 03...	1400	3.0	--	2,720	13.5
NOV 07...	1530	3.5	--	2,680	10.0
DEC 05...	1530	2.9	--	2,990	8.0
JAN 13...	1150	2.3	--	3,090	6.0
FEB 11...	1100	2.3	--	3,100	4.5
MAR 11...	1445	2.1	--	3,130	15.0
APR 10...	1300	2.6	--	2,680	17.0
MAY 07...	1330	2.7	--	2,820	20.5
JUN 03...	1345	14	983	--	--
JUN 20...	1200	27	993	--	--
JUL 07...	1100	2.6	2,570	--	--
JUL 29...	1145	2,920	1,340	--	--
AUG 08...	1100	2.8	2,790	--	--
SEP 10...	1345	2.5	2,820	--	--

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

07121500 TIMPAS CREEK AT MOUTH NEAR SWINK, CO (LAT 38 00 11N LONG 103 39 20W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unflab, uS/cm 25 degC (90095)	Specific conductance, wat unflab, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT					
03...	1015	7.5	--	2,810	12.0
NOV					
07...	1220	13	--	2,370	10.0
DEC					
05...	1315	31	--	2,040	6.0
30...	1235	9.0	--	2,800	8.5
FEB					
12...	1230	7.2	--	2,870	9.0
MAR					
11...	1200	6.8	--	2,890	13.5
26...	1315	30	--	1,620	15.0
MAY					
07...	1130	35	--	1,630	17.5
JUN					
03...	1020	107	--	961	--
JUL					
01...	1135	126	--	984	--
AUG					
19...	1430	27	1,760	--	26.0
SEP					
10...	1620	32	1,500	--	--

07124200 PURGATOIRE RIVER AT MADRID, CO (LAT 37 07 46N LONG 104 38 22W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unflab, uS/cm 25 degC (90095)	Specific conductance, wat unflab, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT					
04...	1555	21	--	373	17.0
NOV					
14...	1450	16	--	581	5.5
JAN					
08...	1300	18	--	690	0.5
MAR					
06...	1320	15	--	760	9.5
APR					
16...	0910	22	--	608	9.5
JUN					
05...	1130	249	331	--	13.0
05...	1455	287	371	--	12.5
JUL					
09...	1120	47	412	--	21.5
AUG					
11...	1240	30	438	--	26.0
SEP					
15...	1340	138	277	--	16.0

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

07124410 PURGATOIRE RIVER BELOW TRINIDAD LAKE, CO (LAT 37 08 38N LONG 104 32 50W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat unf lab, uS/cm 25 degC (90095)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 04...	1405	0.01	--	618	13.0
NOV 14...	1620	0.03	--	615	6.5
JAN 08...	1030	0.16	--	760	3.5
MAR 06...	1540	0.75	--	649	3.0
APR 16...	1355	7.9	--	623	9.5
JUN 05...	1320	198	626	--	15.0
JUL 09...	1405	53	489	--	18.0
AUG 11...	1440	54	485	--	21.0
SEP 15...	1635	112	409	--	15.5

07126300 PURGATOIRE RIVER NEAR THATCHER, CO. (LAT 37 21 23N LONG 103 53 59W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
OCT 03...	1425	0.71	--	15.0	APR 07...	1710	42	--	9.0
NOV 13...	1320	2.8	--	5.5	JUN 04...	1740	30	--	23.0
DEC 09...	1330	7.1	--	1.5	06...	1105	192	--	15.0
JAN 08...	1620	15	--	0.5	30...	1325	3.2	--	25.5
MAR 04...	1250	13	--	5.5	AUG 12...	1625	3.2	--	28.5
					SEP 16...	1335	13	--	20.0

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

07128500 PURGATOIRE RIVER NEAR LAS ANIMAS, CO (LAT 38 02 02N LONG 103 12 00W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)
OCT 01...	1355	5.5	2,980	JUN 04...	1120	20	1,660
NOV 05...	1550	1.2	3,650	JUN 24...	1215	32	1,280
DEC 05...	1105	2.4	3,610	JUL 08...	1400	1.4	2,970
JAN 07...	1130	8.7	3,840	JUL 29...	1105	0.57	3,710
MAR 11...	1350	4.6	4,150	AUG 08...	1015	4.2	825
APR 08...	1045	76	1,760	AUG 26...	1215	0.16	3,300
APR 29...	0815	68	738	SEP 08...	1715	1.2	910
MAY 20...	1235	2.8	3,250	SEP 09...	1540	105	1,660

07133000 ARKANSAS RIVER AT LAMAR, CO (LAT 38 06 21N LONG 102 37 05W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)
NOV 06...	1605	5.1	3,840	MAY 06...	1350	17	3,580
DEC 11...	1125	3.4	3,850	MAY 23...	1335	35	3,370
FEB 11...	1040	3.9	3,910	JUN 06...	1425	32	3,210
MAR 07...	0725	5.4	3,930	JUN 18...	1650	137	2,330
APR 14...	1705	16	4,060	JUL 15...	1330	33	2,880
APR 28...	1430	82	3,040	AUG 11...	1445	18	3,020
				SEP 08...	1455	15	3,100

07134100 BIG SANDY CREEK NEAR LAMAR, CO (LAT 38 06 51N LONG 102 29 00W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
NOV 07...	1220	4.1	4,390	--	MAY 22...	1535	1.9	5,010	--
DEC 11...	1600	2.0	4,910	8.1	JUN 06...	1030	12	4,170	--
FEB 11...	1150	2.5	4,700	--	JUL 15...	1030	1.8	4,940	--
MAR 06...	1200	2.2	5,000	--	AUG 11...	1125	1.2	5,370	--
APR 15...	0705	1.7	4,860	--	SEP 08...	1120	1.7	4,760	--

MISCELLANEOUS STATION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—Continued

07134180 ARKANSAS RIVER NEAR GRANADA, CO (LAT 38 05 44N LONG 102 18 37W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)
NOV 07...	1030	3.8	4,590	MAY 22...	1635	3.4	4,680
DEC 11...	1435	33	4,220	JUN 06...	1140	78	3,250
FEB 11...	1250	44	4,170	JUL 15...	1115	3.6	4,560
MAR 06...	1645	48	4,230	AUG 11...	1215	3.4	4,540
APR 15...	0835	3.8	4,820	SEP 08...	1220	3.3	4,540

07134990 WILD HORSE CREEK ABOVE HOLLY, CO (LAT 38 03 24N LONG 102 08 16W)

MISCELLANEOUS FIELD MEASUREMENTS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)
NOV 07...	0845	26	4,280	JUN 06...	1245	51	3,210
DEC 11...	1310	0.53	3,910	JUN 19...	1120	2.4	2,960
APR 15...	1040	0.29	3,920	JUL 15...	1215	0.13	3,770
APR 28...	1630	1.0	3,720	AUG 11...	1305	0.84	3,910
MAY 23...	0755	0.57	3,940	SEP 08...	1315	0.33	3,700

SOUTH PLATTE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM STUDY

The South Platte River Basin study, conducted as part of the U.S. Geological Survey's National Water-Quality Assessment (NAWQA) Program, combines information on water chemistry, physical characteristics, stream habitat, and aquatic life to provide science-based insights for current and emerging water issues in surface and ground waters of the South Platte River Basin. The results can contribute to informed decisions that result in practical and effective water-resource management strategies that protect and restore water quality.

As part of this study, the following sites were sampled in water year 2003:

06713500 Cherry Creek at Denver
06753990 Lonetree Creek nr Greeley
06754000 South Platte River nr Kersey
393557105033101 Dutch Creek at Weaver Park nr Columbine Valley
393613104511401 Cottonwood Creek ab Newark St nr Greenwood Village
393948105053501 Bear Creek bl Estes Rd at Lakewood
394107105021001 Sanderson Gulch ab Lowell Av at Denver
394409105020501 Lakewood Gulch ab Knox Ct at Denver
394553105075101 Lena Gulch at Lewis Meadows Park at Wheat Ridge
394629105063101 Clear Creek bl Kipling at Wheat Ridge
394919105074601 Ralston Cr ab Simms at Arvada
394921105015701 Little Dry Creek bl Lowell nr Westminster
395324105035001 Big Dry Cr bl Hyland Cr at Westminster City Park
395554105085601 Rock Creek ab Rock Cr Pkwy at Superior
395707105100401 Coal Creek ab McCaslin Rd at Superior
395958105113501 Dry Cr ab Baseline Rd nr Boulder
400000105125400 S Boulder Cr ab Baseline Rd at Boulder
400023105142301 Bear Creek ab Wellman Feeder Canal at Boulder
400217105123701 Boulder Creek at 61st St nr Boulder
400607105094401 Dry Creek bl Niwot Rd at Niwot
400810105071301 Left Hand Creek ab Pike Rd at Longmont
400855105090501 Dry Creek bl Airport Rd at Longmont
400925105023201 Spring Gulch at Sandstone Ranch Park nr Longmont
402114105350101 Big Thompson River blw Moraine Park nr Estes Park
402549105043101 Dry Creek at US 287 at Loveland
403035105035301 Mail Creek nr mouth at Fort Collins
403048105042701 Fossil Creek at College Ave at Fort Collins
403308105001601 Boxelder Creek at mouth nr Fort Collins
403356105024001 Spring Creek at Edora Park at Fort Collins
404200105145600 Cache la Poudre River abv North Fork nr Ft Collins

Water-quality data from these samples are available on-line at:

<http://waterdata.usgs.gov/co/nwis/qw>

Selected biological data from these samples are available on-line at:

<http://infotrek.er.usgs.gov/pls/nawqa/nawqa.home>

More information on the South Platte River Basin NAWQA study is available on-line at:

<http://co.water.usgs.gov/nawqa/splt/index.html>

BIG THOMPSON PROJECT

The primary objective of this sampling program is to establish a baseline water quality network. The sites in this program make up a large portion of the Colorado/Big Thompson Water Diversion project and constitute a cooperative effort between the USGS, the Big Thompson Watershed Forum, North Front Range Water Quality Planning Association, US Bureau of Reclamation, State Engineer, water managers, and Colorado State University.

09013000 ALVA B. ADAMS TUNNEL AT EAST PORTAL, NEAR ESTES PARK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°19'40", long 105°34'39", in SW¹/₄NW¹/₄ sec.9, T.4 N., R.73 W., Larimer County, Hydrologic Unit 10190006, on right bank at upstream end of Aspen Creek siphon, 700 ft downstream from east portal, and 4.5 mi southwest of Estes Park.

PERIOD OF RECORD.--September 1970 to current year. Water-discharge records published from October 1946 to September 1998 (monthly discharge only for August and September 1947). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=09013000

REMARKS.--Field data collected prior to 1974 water year are available in district office.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unflab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
NOV 19...	0855	471	<1.0	8.2	7.4	51	4.5	21	6.31	1.18	0.62	0.2	1.92
DEC 10...	0850	514	1.4	8.6	7.7	54	3.5	22	6.79	1.29	0.70	0.2	2.02
JAN 14...	0855	413	<1.0	8.7	7.8	63	2.5	27	8.28	1.51	0.76	0.2	2.40
FEB 11...	0900	477	<1.0	8.3	7.8	63	2.5	26	7.94	1.48	0.80	0.2	2.35
MAR 25...	0930	0.40	2.6	9.9	7.2	65	5.0	27	8.42	1.50	0.77	0.2	2.68
APR 15...	0915	0.60	4.7	9.7	8.9	130	8.5	34	10.3	1.99	1.25	1	15.4
MAY 06...	0915	23	<1.0	10.2	7.9	55	5.0	21	6.53	1.20	0.65	0.2	2.45
MAY 20...	0910	20	3.3	9.1	8.0	44	5.0	17	4.99	1.05	0.65	0.3	2.46
JUN 03...	0945	408	1.5	8.4	7.5	37	6.0	16	4.91	0.900	0.59	0.2	1.57
JUN 17...	0925	8.6	3.5	9.1	7.3	24	7.5	8	2.22	0.662	0.38	0.3	2.13
JUL 08...	0910	195	<1.0	8.0	7.4	17	13.0	7	2.14	0.374	0.23	0.2	0.98
JUL 22...	0930	242	1.6	7.3	7.1	17	17.0	7	2.13	0.355	0.20	0.1	0.80
AUG 12...	0920	487	1.2	7.0	7.6	36	18.5	15	4.37	0.899	0.39	0.2	1.37
SEP 09...	0905	400	2.6	8.0	8.0	52	14.5	21	6.35	1.29	0.55	0.2	1.78

GRAND LAKE OUTLET
BIG THOMPSON PROJECT—Continued

09013000 ALVA B. ADAMS TUNNEL AT EAST PORTAL, NEAR ESTES PARK, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
NOV 19...	24	0.47	2.8	28	0.05	50.0	39	0.16	<0.015	0.057	<0.007	E.003	E.002
DEC 10...	E25	1.05	2.7	--	--	--	41	0.20	<0.015	0.042	<0.007	E.003	0.008
JAN 14...	29	0.29	3.0	34	0.06	48.3	43	0.18	<0.015	0.033	<0.007	E.004	0.007
FEB 11...	30	0.35	3.0	34	0.06	55.2	43	0.15	<0.015	0.047	<0.007	<0.004	0.010
MAR 25...	31	0.55	3.0	36	0.06	0.04	41	0.18	<0.015	0.044	<0.007	E.004	0.015
APR 15...	59	1.47	5.6	71	0.11	0.13	79	0.33	<0.015	E.015	<0.007	E.004	0.026
MAY 06...	25	0.55	3.1	30	0.07	3.19	50	0.12	<0.015	0.059	<0.007	<0.004	0.009
MAY 20...	19	0.49	3.1	25	0.06	2.24	42	0.18	<0.015	0.047	<0.007	0.005	0.017
JUN 03...	16	0.35	2.1	21	0.05	43.9	40	0.18	<0.015	0.079	<0.007	E.004	0.012
JUN 17...	11	0.30	2.1	14	0.05	0.78	34	0.15	<0.015	E.011	<0.007	0.005	0.012
JUL 08...	8	E.19	1.4	--	--	--	16	0.18	<0.015	E.011	<0.007	E.003	0.007
JUL 22...	8	0.31	1.3	10	0.03	12.3	19	0.14	<0.015	<0.022	<0.007	E.004	0.006
AUG 12...	15	0.21	2.6	19	0.04	42.6	32	0.21	<0.015	<0.022	<0.007	0.007	0.012
SEP 09...	23	0.78	3.4	28	0.05	43.0	40	0.31	<0.015	<0.022	<0.007	E.003	0.014

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
NOV 19...	E.2	0.5	E6	<0.08	0.5	<0.02	0.36	<0.20
DEC 10...	E.3	0.5	E6	<0.08	2.6	<0.02	0.46	<0.20
JAN 14...	E.2	0.5	13	0.15	49.6	<0.02	0.48	<0.20
FEB 11...	E.2	0.5	17	<0.08	22.9	<0.02	0.44	<0.20
MAR 25...	0.3	0.7	34	E.06	8.7	<0.02	0.25	<0.20
APR 15...	0.8	1.1	22	<0.08	59.8	<0.02	0.51	<0.20
MAY 06...	E.2	0.7	24	<0.08	1.6	<0.02	0.36	<0.20
MAY 20...	E.2	0.8	53	E.04	2.9	<0.02	0.16	<0.20
JUN 03...	E.1	0.7	31	<0.08	2.3	<0.02	0.26	<0.20
JUN 17...	<0.3	0.6	44	<0.08	1.8	<0.02	0.19	<0.20
JUL 08...	<0.3	0.7	25	<0.08	1.9	<0.02	0.55	<0.20
JUL 22...	<0.3	0.5	18	<0.08	0.8	<0.02	0.13	<0.20
AUG 12...	E.2	0.6	63	<0.08	0.7	<0.02	0.31	<0.20
SEP 09...	E.2	0.6	41	<0.08	0.5	<0.02	0.14	<0.20

< -- Actual value is known to be less than the value shown.
E -- Estimated laboratory analysis value.

BIG THOMPSON PROJECT—Continued

09013000 ALVA B. ADAMS TUNNEL AT EAST PORTAL, NEAR ESTES PARK, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
NOV 19...	<0.4	<0.4	<0.4	<0.4	<0.4
DEC 10...	<0.4	<0.4	<0.4	<0.4	<0.4
JAN 14...	<0.4	<0.4	<0.4	<0.4	<0.4
FEB 11...	<0.4	<0.4	<0.4	<0.4	<0.4
MAR 25...	<0.4	<0.4	<0.4	<0.4	<0.4
APR 15...	<0.4	<0.4	<0.4	<0.4	<0.4
MAY 06...	<0.4	<0.4	<0.4	<0.4	<0.4
20...	<0.4	<0.4	<0.4	<0.4	<0.4
JUN 03...	<0.4	<0.4	<0.4	<0.4	<0.4
17...	<0.4	<0.4	<0.4	<0.4	<0.4
JUL 08...	M	M	2	1	3
22...	M	<0.4	<0.4	<0.4	3
AUG 15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP 09...	<0.4	<0.4	<0.4	<0.4	<0.4

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

M -- Presence of material verified but not quantified.

06733000 BIG THOMPSON RIVER AT ESTES PARK, CO

WATER-QUALITY RECORDS

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 Hwy 7, 0.3 mi northwest of Estes Power Plant, in Estes Park.

DRAINAGE AREA.--137 mi².

PERIOD OF RECORD.--August 2000 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=06733000

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
OCT													
07...	0905	28	7.1	9.4	7.5	32	5.5	11	3.11	0.880	0.41	0.3	1.98
NOV													
18...	0905	12	<1.0	10.8	7.7	47	0.5	16	4.28	1.20	0.41	0.3	2.90
DEC													
09...	0905	11	<1.0	11.6	7.7	52	0.0	17	4.64	1.38	0.47	0.3	3.13
JAN													
13...	0930	10	<1.0	11.3	7.8	54	0.5	19	5.03	1.49	0.48	0.4	3.59
FEB													
10...	0915	7.1	<1.0	11.3	8.0	60	0.5	21	5.49	1.68	0.52	0.4	3.95
MAR													
17...	0925	21	7.7	10.8	7.8	61	1.5	17	4.52	1.35	0.79	0.5	5.08
APR													
14...	0915	76	11	10.5	7.8	64	3.5	20	5.49	1.64	0.83	0.4	3.85
MAY													
05...	0920	68	2.5	10.1	7.1	51	4.0	16	4.30	1.22	0.44	0.3	3.04
19...	0900	325	5.1	10.4	7.8	28	3.5	10	2.76	0.755	0.51	0.2	1.73
JUN													
02...	0915	1,060	5.6	9.9	7.0	17	4.5	7	1.93	0.504	0.47	0.2	1.01
16...	0935	619	2.0	9.4	7.1	17	7.0	6	1.78	0.453	0.29	0.2	0.92
JUL													
07...	0920	311	1.5	10.2	7.7	15	9.5	6	1.71	0.421	0.19	0.2	1.01
21...	0905	242	2.4	8.5	7.0	16	11.0	6	1.76	0.414	0.22	0.2	0.91
AUG													
11...	0945	109	1.6	7.9	7.3	21	13.5	8	2.12	0.570	0.33	0.2	1.40
SEP													
08...	0915	96	1.7	8.5	7.5	24	10.0	9	2.52	0.633	0.34	0.2	1.41

BIG THOMPSON PROJECT—Continued

06733000 BIG THOMPSON RIVER AT ESTES PARK, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alka- linity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chlor- ide, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)
OCT 07...	E13	1.36	2.3	--	--	--	21	E.10	<0.015	0.120	<0.007	E.004	0.007
NOV 18...	17	2.63	2.9	25	0.05	1.21	39	0.23	<0.015	0.205	<0.007	E.003	<0.004
DEC 09...	E19	2.46	2.8	--	--	--	35	E.08	<0.015	0.207	<0.007	E.004	0.005
JAN 13...	20	2.05	2.7	28	0.06	1.13	42	E.08	<0.015	0.196	<0.007	E.003	0.005
FEB 10...	23	3.61	3.1	33	0.06	0.90	47	E.08	<0.015	0.180	<0.007	E.003	E.002
MAR 17...	18	5.59	3.2	32	0.06	2.52	45	0.19	<0.015	0.199	E.004	0.011	0.026
APR 14...	13	6.37	5.6	33	0.08	12.8	62	0.38	<0.015	0.253	<0.007	0.006	0.028
MAY 05...	13	4.58	4.2	26	0.06	8.66	47	0.19	<0.015	0.065	<0.007	E.003	0.009
MAY 19...	8	1.70	2.7	16	0.05	32.7	37	0.40	<0.015	0.133	<0.007	0.006	0.026
JUN 02...	6	0.60	1.7	11	0.04	77.1	27	0.78	<0.015	0.181	<0.007	0.007	0.031
JUN 16...	6	0.54	1.4	10	0.04	44.2	26	0.11	<0.015	0.158	<0.007	E.003	0.013
JUL 07...	7	0.57	1.3	10	0.02	9.51	11	0.15	<0.015	0.138	<0.007	E.003	0.009
JUL 21...	7	0.53	1.2	10	0.02	11.3	17	0.18	<0.015	0.128	<0.007	E.004	0.010
AUG 11...	9	0.86	1.2	12	0.03	6.79	23	E.10	<0.015	0.102	<0.007	E.004	0.008
SEP 08...	--	1.06	1.8	--	--	--	29	E.10	<0.015	0.179	<0.007	E.004	0.010

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan- ese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
OCT 07...	<0.3	0.6	131	E.04	5.2	<0.02	0.22	<0.20
NOV 18...	<0.3	0.5	120	0.10	10.1	<0.02	0.26	<0.20
DEC 09...	<0.3	0.8	104	E.04	8.3	<0.02	0.35	<0.20
JAN 13...	<0.3	0.6	77	<0.08	7.0	<0.02	0.31	<0.20
FEB 10...	<0.3	0.5	84	<0.08	6.8	<0.02	0.29	<0.20
MAR 17...	E.2	1.0	203	0.13	11.9	<0.02	0.30	<0.20
APR 14...	<0.3	1.4	201	E.06	11.6	<0.02	0.51	<0.20
MAY 05...	E.1	1.4	151	E.07	8.5	<0.02	0.40	<0.20
MAY 19...	<0.3	1.5	127	0.08	6.6	<0.02	0.29	<0.20
JUN 02...	<0.3	1.3	90	E.04	5.1	<0.02	0.32	<0.20
JUN 16...	<0.3	1.0	71	<0.08	3.6	<0.02	0.27	<0.20
JUL 07...	<0.3	0.8	60	E.04	3.9	<0.02	0.18	<0.20
JUL 21...	<0.3	0.6	78	<0.08	3.4	<0.02	0.15	<0.20
AUG 11...	<0.3	0.6	101	<0.08	3.8	<0.02	0.19	<0.20
SEP 08...	<0.3	0.7	114	E.04	5.0	<0.02	0.13	<0.20

< -- Actual value is known to be less than the value shown.
E -- Estimated laboratory analysis value.

PLATTE RIVER BASIN

BIG THOMPSON PROJECT—Continued

06733000 BIG THOMPSON RIVER AT ESTES PARK, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
OCT 07...	<0.4	<0.4	<0.4	<0.4	<0.4
NOV 18...	<0.4	<0.4	<0.4	<0.4	<0.4
DEC 09...	<0.4	<0.4	<0.4	<0.4	<0.4
JAN 13...	<0.4	<0.4	<0.4	<0.4	<0.4
FEB 10...	<0.4	<0.4	<0.4	<0.4	<0.4
MAR 17...	<0.4	<0.4	<0.4	<0.4	<0.4
APR 14...	<0.4	<0.4	<0.4	<0.4	<0.4
MAY 05...	<0.4	<0.4	<0.4	<0.4	<0.4
19...	<0.4	<0.4	<0.4	<0.4	<0.4
JUN 02...	<0.4	<0.4	<0.4	<0.4	<0.4
16...	<0.4	<0.4	<0.4	<0.4	<0.4
JUL 07...	<0.4	<0.4	<0.4	<0.4	<0.4
21...	<0.4	<0.4	<0.4	<0.4	<0.4
AUG 15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP 08...	<0.4	<0.4	<0.4	<0.4	<0.4

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

BIG THOMPSON PROJECT—Continued

402245105302300 BIG THOMPSON RIVER BELOW SANITATION OUTFLOW ABOVE LAKE ESTES, CO

WATER-QUALITY RECORDS

LOCATION.—Lat 40°22'45", long 105°30'23", in NW¹/₄NW¹/₄ sec.30, T.5 N., R.72 W., Larimer County, Hydrologic Unit 10190006, on right bank, 225 ft upstream from pedestrian bridge on Lake Estes Trail, downstream from Estes Park Sanitation District Outflow, adjacent to Lake Estes, in Estes Park.

DRAINAGE AREA.—138 mi².

PERIOD OF RECORD.—August 2000 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=402245105302300

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
OCT 07...	1045	29	9.9	9.9	7.8	46	6.5	12	3.39	0.941	0.69	0.4	3.41
NOV 18...	1045	13	1.1	9.2	8.0	62	1.5	17	4.71	1.29	0.85	0.5	4.77
DEC 09...	1035	12	<1.0	11.7	8.3	54	1.0	18	4.82	1.43	0.51	0.3	3.29
JAN 13...	1045	11	<1.0	12.0	8.0	76	1.0	21	5.59	1.74	1.14	0.6	5.86
FEB 10...	1100	8.0	1.4	11.7	8.5	84	0.0	23	5.98	1.84	1.17	0.6	6.72
MAR 17...	1120	22	14	10.4	8.2	76	2.0	18	4.76	1.37	1.08	0.8	7.46
APR 14...	1020	76	3.7	10.7	8.3	68	4.5	22	5.93	1.82	0.86	0.4	4.52
MAY 05...	1035	78	4.3	10.1	7.0	57	5.0	16	4.50	1.26	0.58	0.4	3.48
MAY 19...	1030	325	5.0	10.3	7.7	29	3.5	10	2.81	0.766	0.44	0.3	1.86
JUN 02...	1035	1,060	5.5	10.1	7.6	17	5.5	7	1.97	0.513	0.41	0.2	1.07
JUN 16...	1040	619	1.9	9.5	7.5	17	7.5	6	1.80	0.458	0.31	0.2	0.99
JUL 07...	1040	313	1.6	8.6	7.8	17	10.5	6	1.79	0.442	0.26	0.2	1.22
JUL 21...	1020	242	2.0	8.4	7.4	19	12.0	6	1.85	0.443	0.29	0.2	1.11
AUG 11...	1050	109	1.3	8.5	8.0	26	15.0	8	2.24	0.608	0.41	0.3	1.80
SEP 08...	1025	96	1.8	8.7	7.8	29	10.5	10	2.63	0.725	0.40	0.2	1.71

PLATTE RIVER BASIN
BIG THOMPSON PROJECT—Continued

402245105302300 BIG THOMPSON RIVER BELOW SANITATION OUTFLOW ABOVE LAKE ESTES, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alka- linity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chlor- ide, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)
OCT 07...	E13	2.76	3.0	--	--	--	34	0.56	0.370	0.115	0.033	0.042	0.059
NOV 18...	20	4.37	3.7	34	0.06	1.47	42	0.80	0.429	0.276	--	--	--
DEC 09...	E19	4.27	2.9	--	--	--	42	0.11	0.021	0.212	E.004	0.009	0.011
JAN 13...	25	4.59	3.9	41	0.06	1.30	44	0.77	0.569	0.225	0.398	0.40	0.43
FEB 10...	26	6.43	4.5	45	0.08	1.28	59	0.52	0.251	0.446	0.160	0.177	0.24
MAR 17...	19	8.22	3.7	40	0.07	2.94	49	0.37	0.042	0.329	0.012	0.021	0.076
APR 14...	13	6.94	6.1	36	0.08	12.1	59	0.48	E.014	0.267	E.006	0.017	0.043
MAY 05...	13	5.24	4.5	28	0.06	9.98	47	0.23	<0.015	0.113	<0.007	0.006	0.017
MAY 19...	8	1.80	2.7	16	0.06	36.4	41	0.39	0.027	0.133	E.004	0.010	0.035
JUN 02...	6	0.71	1.7	11	0.03	73.4	26	0.27	<0.015	0.185	<0.007	0.006	0.031
JUN 16...	6	0.65	1.5	10	0.03	40.1	24	0.14	E.008	0.158	<0.007	0.004	0.018
JUL 07...	7	0.75	1.4	11	0.02	14.2	17	0.15	<0.015	0.147	<0.007	0.005	0.017
JUL 21...	7	0.76	1.3	11	0.02	10.1	15	0.25	0.073	0.127	0.012	0.015	0.025
AUG 11...	10	1.49	1.4	14	0.03	7.30	25	0.33	0.144	0.100	0.018	0.027	0.036
SEP 08...	11	1.61	2.5	17	0.03	6.48	25	0.31	0.172	0.181	0.016	0.022	0.033

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan- ese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
OCT 07...	<0.3	0.8	128	0.10	5.5	<0.02	0.27	<0.2
NOV 18...	<0.3	0.8	121	E.06	8.6	<0.02	0.32	<0.2
DEC 09...	<0.3	0.5	111	<0.08	7.0	<0.02	0.34	<0.2
JAN 13...	<0.3	0.8	84	E.05	7.1	<0.02	0.40	<0.2
FEB 10...	<0.3	1.0	75	<0.08	6.9	<0.02	0.40	<0.2
MAR 17...	<0.3	1.2	181	0.18	11.5	<0.02	0.36	<0.2
APR 14...	<0.3	1.4	182	E.07	10.1	<0.02	0.50	<0.2
MAY 05...	E.1	1.4	151	E.05	8.0	<0.02	0.42	<0.2
MAY 19...	<0.3	1.5	133	0.10	6.9	<0.02	0.31	<0.2
JUN 02...	<0.3	1.3	87	<0.08	5.3	<0.02	0.31	<0.2
JUN 16...	<0.3	0.9	68	<0.08	3.7	<0.02	0.28	<0.2
JUL 07...	<0.3	0.7	67	<0.08	4.3	<0.02	0.17	<0.2
JUL 21...	<0.3	0.7	81	<0.08	3.9	<0.02	0.16	<0.2
AUG 11...	<0.3	0.7	102	<0.08	3.5	<0.02	0.21	<0.2
SEP 08...	<0.3	0.9	99	E.05	4.9	<0.02	0.12	<0.2

< -- Actual value is known to be less than the value shown.
E -- Estimated laboratory analysis value.

BIG THOMPSON PROJECT—Continued

402245105302300 BIG THOMPSON RIVER BELOW SANITATION OUTFLOW ABOVE LAKE ESTES, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
OCT					
07...	<0.4	<0.4	<0.4	<0.4	<0.4
NOV					
18...	<0.4	<0.4	<0.4	<0.4	<0.4
DEC					
09...	<0.4	<0.4	<0.4	<0.4	<0.4
JAN					
13...	<0.4	<0.4	<0.4	<0.4	<0.4
FEB					
10...	<0.4	<0.4	<0.4	<0.4	<0.4
MAR					
17...	<0.4	<0.4	<0.4	<0.4	<0.4
APR					
14...	<0.4	<0.4	<0.4	<0.4	<0.4
MAY					
05...	<0.4	<0.4	<0.4	<0.4	<0.4
19...	<0.4	<0.4	<0.4	<0.4	<0.4
JUN					
02...	<0.4	<0.4	<0.4	<0.4	<0.4
16...	<0.4	<0.4	<0.4	<0.4	<0.4
JUL					
07...	<0.4	<0.4	<0.4	<0.4	<0.4
21...	<0.4	<0.4	<0.4	<0.4	<0.4
AUG					
15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP					
08...	<0.4	<0.4	<0.4	<0.4	<0.4

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

06735500 BIG THOMPSON RIVER NEAR ESTES PARK, CO

WATER-QUALITY RECORDS

LOCATION.—Lat 40°22'35", long 105°29'06", in NW¹/₄NE¹/₄ 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 in Estes Park.

DRAINAGE AREA.—155 mi²

PERIOD OF RECORD.—August 2000 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=06735500

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
OCT													
07...	1140	36	2.5	9.2	8.0	52	10.0	20	5.91	1.24	0.64	0.3	2.65
NOV													
18...	1150	26	1.1	10.2	7.9	51	3.5	20	6.15	1.22	0.62	0.2	1.98
DEC													
09...	1135	25	1.2	10.6	8.3	56	3.5	22	6.66	1.30	0.68	0.2	2.10
JAN													
13...	1145	24	1.9	12.0	8.2	62	2.0	25	7.78	1.45	0.69	0.2	2.40
FEB													
10...	1225	22	<1.0	10.5	8.4	67	1.5	26	8.00	1.56	0.80	0.2	2.74
MAR													
17...	1230	28	1.9	10.2	8.4	65	4.0	26	7.86	1.52	0.87	0.2	2.59
APR													
14...	1130	25	3.1	9.9	9.1	107	8.0	35	9.70	2.57	1.30	0.4	5.91
MAY													
05...	1230	86	2.3	9.8	7.8	89	9.5	28	7.75	2.05	0.83	0.4	4.94
19...	1125	100	6.2	9.2	7.9	53	8.5	18	4.87	1.30	0.70	0.3	3.03
JUN													
02...	1150	737	6.5	11.2	7.6	20	7.5	8	2.21	0.580	0.55	0.2	1.18
16...	1135	123	2.4	9.7	7.3	19	10.0	7	2.10	0.520	0.34	0.2	1.08
JUL													
07...	1220	124	1.6	7.7	7.5	20	15.0	7	2.17	0.486	0.31	0.2	1.24
21...	1120	130	3.2	7.7	--	18	16.0	7	2.00	0.469	0.31	0.2	1.13
AUG													
11...	1210	123	2.2	7.1	7.7	32	19.0	12	3.65	0.769	0.35	0.2	1.38
SEP													
08...	1130	74	2.3	8.0	8.2	51	16.0	20	5.94	1.26	0.52	0.2	1.82

BIG THOMPSON PROJECT—Continued

06735500 BIG THOMPSON RIVER NEAR ESTES PARK, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
OCT 07...	E22	1.28	2.8	--	--	--	35	0.29	0.017	0.066	<0.007	0.008	0.021
NOV 18...	23	0.64	2.8	28	0.05	2.40	35	0.20	E.009	0.060	<0.007	<0.004	0.004
DEC 09...	E25	0.61	2.7	--	--	--	44	0.19	0.016	0.058	<0.007	E.003	0.011
JAN 13...	29	0.39	2.9	33	0.06	2.85	44	0.21	E.010	0.042	<0.007	0.005	0.014
FEB 10...	30	1.37	3.2	36	0.07	2.93	49	0.16	<0.015	0.085	0.013	0.018	0.026
MAR 17...	29	1.46	3.0	35	0.06	3.04	41	0.17	<0.015	0.053	<0.007	0.006	0.016
APR 14...	27	10.8	6.6	54	0.10	4.69	70	0.40	E.008	0.187	<0.007	0.009	0.034
MAY 05...	19	9.47	6.4	45	0.10	16.8	73	0.33	E.011	0.293	<0.007	0.006	0.026
MAY 19...	13	4.59	4.0	27	0.06	12.8	48	0.38	0.018	0.166	<0.007	0.007	0.027
JUN 02...	6	0.91	1.9	12	0.04	57.4	29	0.25	E.008	0.190	<0.007	0.007	0.024
JUN 16...	7	0.75	1.6	12	0.04	9.27	28	0.22	E.012	0.147	<0.007	0.005	0.013
JUL 07...	8	0.80	1.5	12	0.03	6.63	20	0.20	E.013	0.094	<0.007	E.004	0.012
JUL 21...	8	0.58	1.4	11	0.03	7.00	20	0.17	0.031	0.071	<0.007	0.006	0.012
AUG 11...	13	0.77	2.2	17	0.04	8.85	27	0.21	0.041	0.024	<0.007	0.005	0.016
SEP 08...	23	1.03	3.3	27	0.05	7.39	37	0.48	0.016	E.014	<0.007	0.005	0.020

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
OCT 07...	0.3	0.6	106	E.04	3.3	<0.02	0.30	<0.20
NOV 18...	E.2	0.6	24	<0.08	4.7	<0.02	0.38	<0.20
DEC 09...	E.2	0.5	20	<0.08	4.7	<0.02	0.51	<0.20
JAN 13...	E.2	0.5	17	0.28	31.2	<0.02	0.40	<0.20
FEB 10...	E.2	0.5	29	<0.08	20.6	<0.02	0.42	<0.20
MAR 17...	E.2	0.6	39	<0.08	15.1	<0.02	0.33	<0.20
APR 14...	E.1	0.9	155	<0.08	4.5	<0.02	0.55	<0.20
MAY 05...	E.2	1.3	138	0.17	8.3	<0.02	0.54	<0.20
MAY 19...	E.2	1.6	120	E.08	8.3	<0.02	0.31	<0.20
JUN 02...	<0.3	1.4	101	E.05	8.6	<0.02	0.33	<0.20
JUN 16...	<0.3	1.0	82	E.05	9.1	<0.02	0.26	<0.20
JUL 07...	<0.3	0.8	66	E.07	6.1	<0.02	0.21	<0.20
JUL 21...	E.1	0.7	75	<0.08	7.0	<0.02	0.15	<0.20
AUG 11...	E.2	0.9	65	0.11	2.4	<0.02	0.29	<0.20
SEP 08...	E.2	0.6	39	E.04	1.6	<0.02	0.13	<0.20

< -- Actual value is known to be less than the value shown.
 E -- Estimated laboratory analysis value.

PLATTE RIVER BASIN

BIG THOMPSON PROJECT—Continued

06735500 BIG THOMPSON RIVER NEAR ESTES PARK, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
OCT 07...	<0.4	<0.4	<0.4	<0.4	<0.4
NOV 18...	<0.4	<0.4	<0.4	<0.4	<0.4
DEC 09...	<0.4	<0.4	<0.4	<0.4	<0.4
JAN 13...	<0.4	<0.4	<0.4	<0.4	<0.4
FEB 10...	<0.4	<0.4	<0.4	<0.4	<0.4
MAR 17...	<0.4	<0.4	<0.4	<0.4	<0.4
APR 14...	<0.4	<0.4	<0.4	<0.4	<0.4
MAY 05...	<0.4	<0.4	<0.4	<0.4	<0.4
19...	<0.4	<0.4	<0.4	<0.4	<0.4
JUN 02...	<0.4	<0.4	<0.4	<0.4	<0.4
16...	<0.4	<0.4	<0.4	<0.4	<0.4
JUL 07...	<0.4	<0.4	M	<0.4	M
21...	<0.4	<0.4	<0.4	<0.4	<0.4
AUG 15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP 08...	<0.4	<0.4	<0.4	<0.4	<0.4

< -- Actual value is known to be less than the value shown.
M -- Presence of material verified but not quantified.

BIG THOMPSON PROJECT—Continued

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 present. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=06734900

REMARKS.--Field data collected prior to 1974 water year available in district office. Records of discharge are estimated values.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
NOV 18...	1310	472	1.2	9.5	7.8	50	3.0	20	6.14	1.17	0.58	0.2	1.99
DEC 09...	1250	435	1.2	9.3	8.0	55	10.3	22	6.78	1.31	0.66	0.2	2.13
JAN 13...	1300	427	<1.0	10.0	8.1	62	2.0	26	8.09	1.52	0.76	0.2	2.48
FEB 10...	1320	436	<1.0	9.8	8.4	65	2.0	26	7.99	1.52	0.80	0.2	2.60
MAR 17...	1340	250	3.2	10.2	8.2	64	2.5	25	7.70	1.48	0.85	0.2	2.52
APR 14...	1315	26	3.0	10.2	8.8	107	7.0	35	9.92	2.60	1.19	0.5	6.22
MAY 05...	1325	26	3.7	8.8	7.7	90	8.0	28	7.90	2.10	0.85	0.4	4.91
MAY 19...	1250	345	3.7	8.8	7.9	54	8.5	18	4.99	1.33	0.78	0.3	3.10
JUN 02...	1240	494	6.3	9.4	7.4	21	7.5	8	2.26	0.593	0.53	0.2	1.20
JUN 16...	1255	548	2.3	9.4	7.4	20	9.0	8	2.23	0.546	0.38	0.2	1.13
JUL 07...	1330	403	1.1	7.9	7.3	20	13.5	7	2.18	0.494	0.27	0.2	1.22
JUL 21...	1240	456	2.9	7.6	--	18	15.5	7	2.01	0.470	0.24	0.2	1.09
AUG 11...	1310	550	2.3	6.4	7.6	32	18.5	12	3.61	0.778	0.37	0.2	1.35
SEP 08...	1250	496	2.4	7.8	8.0	52	16.0	21	6.13	1.26	0.52	0.2	1.82

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
NOV 18...	23	1.48	2.8	28	0.05	48.9	38	0.20	E.010	0.062	<0.007	E.004	E.003
DEC 09...	E25	0.63	2.7	--	--	--	36	0.18	0.018	0.057	<0.007	E.004	0.009
JAN 13...	29	0.42	2.9	34	0.06	49.2	43	0.21	0.015	0.040	<0.007	0.006	0.013
FEB 10...	29	1.24	3.1	35	0.06	51.0	43	0.17	<0.015	0.068	0.007	0.012	0.018
MAR 17...	29	1.33	3.0	35	0.06	29.3	43	0.15	<0.015	0.062	<0.007	0.006	0.013
APR 14...	27	10.4	6.7	54	0.09	4.78	68	0.45	E.009	0.197	<0.007	0.009	0.037
MAY 05...	20	9.51	6.2	45	0.10	4.92	70	0.33	E.011	0.288	<0.007	0.008	0.025
MAY 19...	13	4.75	4.1	28	0.06	43.5	47	0.38	0.018	0.166	<0.007	0.007	0.022
JUN 02...	7	0.92	1.8	12	0.05	45.1	34	0.25	<0.015	0.190	<0.007	0.009	0.023
JUN 16...	7	0.75	1.6	12	0.04	40.5	27	0.17	<0.015	0.149	<0.007	E.003	0.012
JUL 07...	8	0.80	1.5	12	0.02	19.7	18	0.18	0.023	0.098	<0.007	0.004	0.013
JUL 21...	8	0.60	1.4	11	0.02	21.5	17	0.16	0.042	0.069	<0.007	0.006	0.013
AUG 11...	13	0.53	2.2	17	0.04	39.9	27	0.24	0.038	0.024	<0.007	0.006	0.016
SEP 08...	22	0.97	3.3	27	0.05	52.8	39	0.29	E.009	E.011	<0.007	E.004	0.019

PLATTE RIVER BASIN
BIG THOMPSON PROJECT—Continued

06734900 OLYMPUS TUNNEL AT LAKE ESTES, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan- ese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
NOV 18...	E.2	0.5	15	<0.08	2.4	<0.02	0.33	<0.20
DEC 09...	E.2	0.5	14	<0.08	1.1	<0.02	0.46	<0.20
JAN 13...	E.2	0.5	11	<0.08	28.6	<0.02	0.47	<0.20
FEB 10...	E.1	0.6	18	<0.08	14.3	<0.02	0.43	<0.20
MAR 17...	E.2	0.6	31	0.78	9.1	<0.02	0.31	<0.20
APR 14...	E.1	1.0	149	E.05	1.5	<0.02	0.54	<0.20
MAY 05...	E.2	1.3	142	E.06	5.9	<0.02	0.55	<0.20
19...	E.3	1.5	120	E.07	7.0	<0.02	0.33	<0.20
JUN 02...	<0.3	1.6	100	E.06	8.9	<0.02	0.36	<0.20
16...	<0.3	1.0	78	<0.08	7.0	<0.02	0.28	<0.20
JUL 07...	<0.3	0.8	80	<0.08	9.6	<0.02	0.20	<0.20
21...	E.1	0.7	80	<0.08	8.1	<0.02	0.16	<0.20
AUG 11...	E.2	0.6	70	<0.08	2.4	<0.02	0.28	<0.20
SEP 08...	E.2	0.7	39	E.05	1.0	<0.02	0.14	<0.20

< -- Actual value is known to be less than the value shown.
E -- Estimated laboratory analysis value.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
NOV 18...	<0.4	<0.4	<0.4	<0.4	<0.4
DEC 09...	<0.4	<0.4	<0.4	<0.4	<0.4
JAN 13...	<0.4	<0.4	<0.4	<0.4	<0.4
FEB 10...	<0.4	<0.4	<0.4	<0.4	<0.4
MAR 17...	<0.4	<0.4	<0.4	<0.4	<0.4
APR 14...	<0.4	<0.4	<0.4	<0.4	<0.4
MAY 05...	<0.4	<0.4	<0.4	<0.4	<0.4
19...	<0.4	<0.4	<0.4	<0.4	<0.4
JUN 02...	<0.4	<0.4	<0.4	<0.4	<0.4
16...	<0.4	<0.4	M	<0.4	<0.4
JUL 07...	<0.4	<0.4	M	<0.4	M
21...	<0.4	<0.4	<0.4	<0.4	<0.4
AUG 15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP 08...	<0.4	<0.4	<0.4	<0.4	<0.4

< -- Actual value is known to be less than the value shown.
M -- Presence of material verified but not quantified.

BIG THOMPSON PROJECT—Continued

402249105282000 BIG THOMPSON RIVER AT WHISPERING PINES NEAR ESTES PARK, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°22'49", long 105°28'00", in SW¹/₄SW¹/₄ sec.21, T.5 N., R.72 W., Larimer County, Hydrologic Unit 10190006, on right bank, immediately downstream of staff gage connected to the Hwy 34 bridge supports, at Whispering Pines.

DRAINAGE AREA.--164 mi².

PERIOD OF RECORD.--August 2000 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=402249105282000

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
OCT 08...	0930	35	8.5	--	7.8	62	8.5	20	5.94	1.28	0.84	0.4	4.01
NOV 19...	1020	22	1.6	10.8	8.0	59	2.0	20	6.10	1.21	0.84	0.3	3.26
DEC 10...	1020	23	1.4	10.7	8.4	65	1.0	23	6.83	1.38	0.86	0.3	3.47
JAN 14...	1010	21	E1.0	11.0	8.2	75	1.0	27	8.09	1.58	0.97	0.4	4.17
FEB 11...	1045	30	1.1	11.1	8.3	86	0.5	27	8.20	1.65	1.26	0.4	5.04
MAR 25...	1120	32	5.5	11.2	9.4	105	5.5	31	9.17	1.93	1.46	0.6	7.04
APR 15...	1035	50	4.2	9.9	9.4	123	9.0	39	10.8	2.87	1.29	0.5	7.64
MAY 06...	1100	100	2.9	9.2	8.5	97	9.5	30	8.38	2.20	0.98	0.5	5.80
MAY 20...	1040	130	3.6	9.0	8.2	58	8.0	19	5.32	1.41	0.77	0.3	3.49
JUN 03...	1105	571	4.4	10.1	7.4	27	8.0	11	3.10	0.717	0.48	0.2	1.54
JUN 17...	1105	123	1.8	8.6	7.8	25	11.5	9	2.48	0.614	0.43	0.2	1.55
JUL 08...	1045	143	1.7	7.7	7.7	26	15.0	8	2.39	0.562	0.45	0.3	1.93
JUL 22...	1055	129	3.0	7.3	7.4	26	17.0	7	2.14	0.515	0.48	0.3	1.72
AUG 12...	1045	122	2.6	6.9	7.9	40	19.5	14	4.22	0.947	0.68	0.3	2.31
SEP 09...	1025	72	1.9	7.9	8.1	58	15.0	21	6.18	1.36	0.70	0.2	2.60

PLATTE RIVER BASIN
BIG THOMPSON PROJECT—Continued

402249105282000 BIG THOMPSON RIVER AT WHISPERING PINES NEAR ESTES PARK, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
OCT 08...	E22	2.68	3.6	--	--	--	36	0.29	E.009	0.443	0.100	0.114	0.131
NOV 19...	22	1.78	3.6	32	0.06	2.46	42	0.24	<0.015	0.436	--	--	--
DEC 10...	E24	1.73	3.5	--	--	--	43	0.26	E.008	0.498	0.075	0.086	0.105
JAN 14...	30	1.75	3.9	40	0.06	2.61	47	0.46	0.153	0.409	0.056	0.064	0.082
FEB 11...	32	2.25	4.8	46	0.08	4.56	56	0.57	0.278	0.580	0.094	0.109	0.129
MAR 25...	28	9.16	5.8	55	0.09	5.52	64	0.60	0.117	0.766	0.107	0.123	0.173
APR 15...	27	12.7	7.9	62	0.11	10.8	80	0.54	E.010	0.455	0.038	0.055	0.105
MAY 06...	20	10.4	6.8	49	0.10	20.1	75	0.39	0.015	0.383	0.021	0.030	0.064
MAY 20...	14	5.16	4.4	30	0.07	17.2	49	0.37	0.016	0.236	0.008	0.018	0.040
JUN 03...	10	1.19	2.0	16	0.04	46.8	30	0.21	<0.015	0.181	<0.007	0.011	0.027
JUN 17...	8	1.46	1.9	15	0.04	10.5	32	0.17	E.010	0.261	0.019	0.029	0.037
JUL 08...	9	1.53	1.8	15	0.03	9.20	24	0.25	0.016	0.242	0.041	0.054	0.062
JUL 22...	8	1.45	1.8	15	0.03	7.60	22	0.24	0.061	0.319	0.055	0.069	0.073
AUG 12...	14	1.35	2.7	22	0.04	10.8	33	0.34	0.021	0.245	0.058	0.071	0.086
SEP 09...	22	1.92	3.6	32	0.06	8.34	43	0.32	0.022	0.367	0.055	0.067	0.089

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
OCT 08...	0.3	0.8	102	E.06	4.8	<0.02	0.39	<0.20
NOV 19...	E.2	0.7	20	<0.08	5.7	<0.02	0.39	<0.20
DEC 10...	E.2	0.8	20	<0.08	6.8	<0.02	0.49	<0.20
JAN 14...	E.2	0.8	13	0.27	19.9	<0.02	0.45	<0.20
FEB 11...	E.2	1.1	20	<0.08	18.8	<0.02	0.50	<0.20
MAR 25...	0.3	1.1	70	<0.08	14.2	<0.02	0.35	<0.20
APR 15...	E.2	1.1	137	E.06	6.3	<0.02	0.59	<0.20
MAY 06...	E.2	1.4	130	0.08	7.8	<0.02	0.57	<0.20
MAY 20...	E.2	1.6	118	E.06	8.0	<0.02	0.33	<0.20
JUN 03...	<0.3	1.3	82	0.08	8.4	<0.02	0.35	<0.20
JUN 17...	<0.3	1.4	73	<0.08	6.8	<0.02	0.30	<0.20
JUL 08...	<0.3	0.8	71	<0.08	5.7	<0.02	0.22	<0.20
JUL 22...	<0.3	0.8	69	E.04	4.3	<0.02	0.18	<0.20
AUG 12...	E.2	0.7	65	<0.08	3.2	<0.02	0.35	<0.20
SEP 09...	E.2	0.7	72	E.06	2.9	<0.02	0.18	<0.20

< -- Actual value is known to be less than the value shown.
E -- Estimated laboratory analysis value.

BIG THOMPSON PROJECT—Continued

402249105282000 BIG THOMPSON RIVER AT WHISPERING PINES NEAR ESTES PARK, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
OCT 08...	<0.4	<0.4	<0.4	<0.4	<0.4
NOV 19...	<0.4	<0.4	<0.4	<0.4	<0.4
DEC 10...	<0.4	<0.4	<0.4	<0.4	<0.4
JAN 14...	<0.4	<0.4	<0.4	<0.4	<0.4
FEB 11...	<0.4	<0.4	<0.4	<0.4	<0.4
MAR 25...	<0.4	<0.4	<0.4	<0.4	<0.4
APR 15...	<0.4	<0.4	<0.4	<0.4	<0.4
MAY 06...	<0.4	<0.4	<0.4	<0.4	<0.4
20...	<0.4	<0.4	<0.4	<0.4	<0.4
JUN 03...	<0.4	<0.4	<0.4	<0.4	<0.4
17...	<0.4	<0.4	<0.4	<0.4	<0.4
JUL 08...	<0.4	<0.4	<0.4	<0.4	<0.4
22...	<0.4	<0.4	<0.4	<0.4	<0.4
AUG 15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP 09...	<0.4	<0.4	<0.4	<0.4	<0.4

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

PLATTE RIVER BASIN
BIG THOMPSON PROJECT—Continued

402554105202100 BIG THOMPSON RIVER ABOVE NORTH FORK BIG THOMPSON RIVER AT DRAKE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°25'54", long 105°20'21", (unsurveyed), Larimer County, Hydrologic Unit 10190006, approximately 100 ft upstream of unnamed bridge on dead end road off Hwy 34, 400 ft upstream of inflow of North Fork Big Thompson River, in Drake.

DRAINAGE AREA.--191 mi².

PERIOD OF RECORD.--August 2000 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=402554105202100

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
OCT 08...	1100	36	12	--	8.2	73	8.5	25	7.34	1.58	0.99	0.4	4.41
NOV 19...	1140	18	<1.0	12.7	8.4	68	0.5	24	7.09	1.41	1.01	0.4	4.16
DEC 10...	1155	19	<1.0	12.2	8.0	77	0.5	25	7.58	1.57	1.07	0.4	4.44
JAN 14...	1155	24	E1.0	11.9	8.3	77	0.5	26	7.84	1.55	0.92	0.4	4.33
FEB 11...	1245	24	<1.0	11.8	8.8	89	0.5	30	8.93	1.80	1.20	0.4	5.39
MAR 25...	1315	47	2.5	10.5	8.6	166	5.5	44	12.9	2.81	2.36	0.8	12.7
APR 15...	1225	59	5.7	9.6	8.4	127	9.0	40	11.4	2.86	1.21	0.6	8.42
MAY 06...	1240	103	4.3	8.9	8.7	97	9.0	30	8.36	2.14	0.96	0.5	6.02
20...	1230	159	5.5	9.4	8.2	64	8.0	21	5.87	1.50	0.27	0.4	4.36
JUN 03...	1245	695	5.7	8.8	7.6	29	11.0	11	3.12	0.727	0.58	0.2	1.73
17...	1230	134	2.0	8.3	7.6	31	14.5	10	2.90	0.687	0.49	0.3	2.10
JUL 08...	1215	145	1.5	7.6	7.6	28	16.5	9	2.64	0.593	0.49	0.3	2.15
22...	1220	134	2.9	7.7	7.1	28	18.0	9	2.71	0.568	0.49	0.3	2.00
AUG 12...	1250	108	2.7	7.1	7.8	41	20.0	14	4.26	0.935	0.62	0.3	2.33
SEP 09...	1205	69	1.9	8.1	8.0	61	15.0	22	6.46	1.43	0.74	0.3	2.87

BIG THOMPSON PROJECT—Continued

402554105202100 BIG THOMPSON RIVER ABOVE NORTH FORK BIG THOMPSON RIVER AT DRAKE, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
OCT 08... E27	2.90	3.7	--	--	--	39	0.23	<0.015	0.424	0.044	0.053	0.064	
NOV 19... 26	2.68	3.8	37	0.06	2.09	42	0.24	<0.015	0.339	0.037	0.049	0.050	
DEC 10... E26	3.01	4.0	--	--	--	49	0.23	<0.015	0.724	0.073	0.084	0.094	
JAN 14... 30	2.25	3.8	41	0.07	3.42	53	0.35	0.108	0.511	0.079	0.084	0.108	
FEB 11... 32	2.99	4.7	47	0.08	3.81	58	0.41	0.128	0.566	0.056	0.065	0.084	
MAR 25... 29	22.2	8.2	83	0.15	14.1	112	0.54	0.055	0.938	0.030	0.046	0.078	
APR 15... 28	13.3	8.8	65	0.11	13.4	84	0.56	E.011	0.425	0.011	0.024	0.117	
MAY 06... 21	10.3	7.2	49	0.10	20.2	73	0.48	<0.015	0.235	0.014	0.023	0.074	
MAY 20... 15	5.89	5.1	33	0.09	27.4	64	0.51	E.011	0.226	0.013	0.026	0.077	
JUN 03... 10	1.61	2.2	17	0.05	67.7	36	0.60	<0.015	0.186	E.005	0.013	0.036	
JUN 17... 9	2.15	2.2	17	0.04	11.6	32	0.21	<0.015	0.288	0.021	0.029	0.042	
JUL 08... 9	1.85	2.0	17	0.03	8.95	23	0.27	0.016	0.277	0.046	0.059	0.075	
JUL 22... 9	1.68	1.9	16	0.03	8.75	24	0.25	0.023	0.353	0.053	0.067	0.073	
AUG 12... 15	1.72	2.7	23	0.04	8.61	30	0.23	<0.015	0.205	0.051	0.062	0.082	
SEP 09... 22	2.29	3.8	33	0.06	7.76	42	0.31	E.011	0.369	0.048	0.058	0.084	

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
OCT 08... E.2	0.8	56	E.06	2.0	<0.02	0.42	<0.20	
NOV 19... E.2	0.9	19	E.05	2.3	<0.02	0.43	<0.20	
DEC 10... E.2	1.3	17	<0.08	2.1	<0.02	0.58	<0.20	
JAN 14... E.2	0.8	13	0.18	2.8	<0.02	0.46	<0.20	
FEB 11... E.2	1.0	17	<0.08	1.4	<0.02	0.48	<0.20	
MAR 25... 0.3	2.0	83	0.10	15.8	<0.02	0.55	<0.20	
APR 15... E.2	1.7	83	0.12	17.5	<0.02	0.73	<0.20	
MAY 06... E.2	1.5	108	E.06	7.4	<0.02	0.59	<0.20	
MAY 20... E.2	1.8	112	E.07	6.8	<0.02	0.38	<0.20	
JUN 03... E.2	1.3	82	<0.08	5.3	<0.02	0.34	<0.20	
JUN 17... <0.3	1.2	59	<0.08	2.2	<0.02	0.32	<0.20	
JUL 08... <0.3	0.9	63	E.04	2.3	<0.02	0.23	<0.20	
JUL 22... <0.3	0.9	63	E.04	1.7	<0.02	0.18	<0.20	
AUG 12... E.1	0.7	52	<0.08	2.3	<0.02	0.34	<0.20	
SEP 09... E.2	0.7	36	E.04	2.4	<0.02	0.21	<0.20	

< -- Actual value is known to be less than the value shown.
E -- Estimated laboratory analysis value.

PLATTE RIVER BASIN

BIG THOMPSON PROJECT—Continued

402554105202100 BIG THOMPSON RIVER ABOVE NORTH FORK BIG THOMPSON RIVER AT DRAKE, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
OCT 08...	<0.4	<0.4	<0.4	<0.4	<0.4
NOV 19...	<0.4	<0.4	<0.4	<0.4	<0.4
DEC 10...	<0.4	<0.4	<0.4	<0.4	<0.4
JAN 14...	<0.4	<0.4	<0.4	<0.4	<0.4
FEB 11...	<0.4	<0.4	<0.4	<0.4	<0.4
MAR 25...	<0.4	<0.4	<0.4	<0.4	<0.4
APR 15...	<0.4	<0.4	<0.4	<0.4	<0.4
MAY 06...	<0.4	<0.4	<0.4	<0.4	<0.4
20...	<0.4	<0.4	<0.4	<0.4	<0.4
JUN 03...	<0.4	<0.4	<0.4	<0.4	<0.4
17...	<0.4	<0.4	<0.4	<0.4	<0.4
JUL 11...	<0.4	<0.4	<0.4	<0.4	<0.4
AUG 15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP 09...	<0.4	<0.4	<0.4	<0.4	<0.4

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

BIG THOMPSON PROJECT—Continued

06736000 NORTH FORK BIG THOMPSON RIVER AT DRAKE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°26'00" (revised), long 105°20'18", (unsurveyed), Larimer County, Hydrologic Unit 10190006, on right bank 400 ft upstream from mouth and 300 ft upstream from Hwy 34 bridge at Drake.

DRAINAGE AREA.--85.1 mi²

PERIOD OF RECORD.--August 2000 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=06736000

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
OCT 08...	1220	7.1	2.1	--	7.7	34	10.0	11	3.30	0.773	0.53	0.3	2.45
NOV 19...	1315	4.8	<1.0	11.1	8.0	38	3.0	13	3.65	0.862	0.48	0.3	2.77
DEC 10...	1320	5.2	1.1	11.6	8.0	43	0.5	15	4.18	1.01	0.51	0.4	3.13
JAN 14...	1330	4.7	<1.0	11.7	8.0	42	0.5	14	3.89	0.945	0.41	0.4	3.08
FEB 12...	0910	3.0	<1.0	12.1	7.6	48	0.5	15	4.40	1.08	0.51	0.4	3.57
MAR 25...	1420	17	3.5	9.3	7.8	112	8.5	34	9.81	2.42	0.95	0.4	6.04
APR 15...	1345	22	3.2	8.7	8.0	61	9.5	20	5.44	1.44	0.89	0.4	4.46
MAY 06...	1350	31	5.1	8.7	7.9	58	9.5	18	4.98	1.25	0.80	0.4	4.09
20...	1330	66	3.4	9.5	8.0	49	7.5	16	4.53	1.17	0.80	0.4	3.40
JUN 03...	1345	123	2.3	9.2	7.4	26	9.5	9	2.64	0.609	0.56	0.3	1.93
17...	1335	85	1.6	8.6	7.5	24	12.5	9	2.55	0.575	0.44	0.3	1.82
JUL 08...	1310	54	1.8	8.0	7.5	23	16.0	8	2.46	0.526	0.39	0.3	1.86
22...	1310	38	2.5	7.5	7.5	24	17.5	8	2.50	0.523	0.37	0.3	1.71
AUG 12...	1350	24	1.2	7.3	7.6	30	19.5	10	3.06	0.691	0.46	0.3	2.39
SEP 09...	1320	19	1.1	8.0	7.7	30	15.0	10	2.97	0.680	0.42	0.3	1.93

PLATTE RIVER BASIN
BIG THOMPSON PROJECT—Continued

06736000 NORTH FORK BIG THOMPSON RIVER AT DRAKE, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
OCT 08...	E15	0.79	1.9	--	--	--	26	0.12	<0.015	0.035	<0.007	0.006	0.011
NOV 19...	16	2.28	2.5	23	0.04	0.40	31	E.06	<0.015	0.091	<0.007	0.005	0.005
DEC 10...	E18	1.87	2.7	--	--	--	29	E.07	<0.015	0.125	<0.007	0.005	0.007
JAN 14...	17	0.99	2.6	23	0.05	0.47	37	E.09	<0.015	0.144	<0.007	E.004	0.008
FEB 12...	19	2.23	3.1	27	0.06	0.34	42	E.07	<0.015	0.154	<0.007	E.003	0.005
MAR 25...	21	11.0	9.1	55	0.10	3.50	77	0.29	<0.015	0.739	E.004	0.009	0.019
APR 15...	16	3.91	6.4	32	0.08	3.47	59	0.28	<0.015	E.015	<0.007	0.007	0.021
MAY 06...	16	3.43	6.0	30	0.07	4.47	53	0.23	<0.015	<0.022	<0.007	0.005	0.018
MAY 20...	14	2.46	5.0	26	0.08	9.96	56	0.38	<0.015	0.069	<0.007	0.011	0.024
JUN 03...	9	1.09	2.3	15	0.04	10.6	32	0.25	<0.015	0.110	<0.007	0.006	0.027
JUN 17...	10	0.70	2.1	14	0.04	7.39	32	0.19	<0.015	0.096	<0.007	0.005	0.015
JUL 08...	10	0.64	1.7	14	0.04	4.76	33	0.22	<0.015	0.082	<0.007	0.006	0.019
JUL 22...	11	0.62	1.5	14	0.04	2.72	26	0.20	<0.015	0.084	<0.007	0.007	0.012
AUG 12...	13	0.94	1.5	17	0.04	2.03	31	0.17	<0.015	0.050	<0.007	0.007	0.013
SEP 09...	13	0.91	1.6	17	0.04	1.53	30	0.13	<0.015	0.129	<0.007	0.007	0.013

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
OCT 08...	E.1	0.4	85	<0.08	5.0	<0.02	0.17	<0.2
NOV 19...	<0.3	0.7	94	0.11	5.8	<0.02	0.24	<0.2
DEC 10...	E.1	0.4	92	<0.08	6.7	<0.02	0.30	<0.2
JAN 14...	<0.3	0.4	48	0.31	3.7	<0.02	0.21	<0.2
FEB 12...	<0.3	0.4	51	<0.08	4.2	<0.02	0.23	<0.2
MAR 25...	E.2	1.0	55	<0.08	3.5	<0.02	0.35	<0.2
APR 15...	<0.3	1.5	106	E.06	2.8	<0.02	0.48	<0.2
MAY 06...	E.2	1.3	75	E.04	3.2	<0.02	0.43	<0.2
MAY 20...	0.3	1.5	121	E.08	2.7	<0.02	0.37	<0.2
JUN 03...	E.2	0.8	69	<0.08	2.4	<0.02	0.28	<0.2
JUN 17...	<0.3	0.7	44	<0.08	1.9	<0.02	0.24	<0.2
JUL 08...	<0.3	0.5	41	<0.08	2.3	<0.02	0.18	<0.2
JUL 22...	<0.3	0.6	49	<0.08	2.7	<0.02	0.18	<0.2
AUG 12...	<0.3	0.5	73	<0.08	3.5	<0.02	0.26	<0.2
SEP 09...	<0.3	0.5	75	E.05	3.5	<0.02	0.12	<0.2

< -- Actual value is known to be less than the value shown.
E -- Estimated laboratory analysis value.

BIG THOMPSON PROJECT—Continued

06736000 NORTH FORK BIG THOMPSON RIVER AT DRAKE, CO—Continued
 WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
OCT 08...	<0.4	<0.4	<0.4	<0.4	<0.4
NOV 19...	<0.4	<0.4	<0.4	<0.4	<0.4
DEC 10...	<0.4	<0.4	<0.4	<0.4	<0.4
JAN 14...	<0.4	<0.4	<0.4	<0.4	<0.4
FEB 12...	<0.4	<0.4	<0.4	<0.4	<0.4
MAR 25...	<0.4	<0.4	<0.4	<0.4	<0.4
APR 15...	<0.4	<0.4	<0.4	<0.4	<0.4
MAY 06...	<0.4	<0.4	<0.4	<0.4	<0.4
20...	<0.4	<0.4	<0.4	<0.4	<0.4
JUN 03...	<0.4	<0.4	<0.4	<0.4	<0.4
17...	<0.4	<0.4	<0.4	<0.4	<0.4
JUL 08...	<0.4	<0.4	<0.4	<0.4	<0.4
22...	<0.4	<0.4	<0.4	<0.4	<0.4
AUG 15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP 09...	<0.4	<0.4	<0.4	<0.4	<0.4

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

PLATTE RIVER BASIN
BIG THOMPSON PROJECT—Continued

06736700 BIG THOMPSON RIVER ABOVE DILLIE TUNNEL NEAR DRAKE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°24'54", long 105°15'00", in SE¹/₄NE¹/₄ sec.8, T.5 N., R.70 W., Larimer County, Hydrologic Unit 10190006, approximately 250 ft upstream of Hwy 34 bridge, approximately 1 mi downstream of inflow of Cedar Creek, 1 mi east of Cedar Cove.

DRAINAGE AREA.--305 mi².

PERIOD OF RECORD.--August 2000 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=06736700

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
OCT													
09...	0855	44	6.8	--	7.7	56	8.5	18	5.31	1.13	0.70	0.4	3.83
NOV													
20...	0905	27	1.1	11.7	7.6	61	0.5	20	5.79	1.26	0.69	0.4	3.59
DEC													
11...	0900	29	1.3	12.0	7.8	76	0.0	25	7.61	1.54	1.01	0.4	4.40
JAN													
15...	0900	25	<1.0	11.9	7.8	73	0.5	26	7.65	1.56	1.13	0.4	4.21
FEB													
12...	1020	29	<1.0	12.1	8.2	82	0.5	27	8.16	1.69	1.05	0.4	5.14
MAR													
26...	0930	77	2.7	11.2	7.3	151	5.0	46	13.1	3.17	1.46	0.6	9.27
APR													
16...	0900	93	4.4	9.8	7.4	116	6.5	37	10.3	2.67	1.32	0.5	7.49
MAY													
07...	0925	130	5.2	10.3	7.6	92	7.0	29	8.13	2.09	0.89	0.4	5.33
21...	0940	237	3.5	10.2	7.8	67	7.5	22	6.12	1.56	0.87	0.4	4.19
JUN													
04...	0920	803	5.7	9.3	7.3	29	9.5	11	3.12	0.723	0.60	0.2	1.79
18...	0935	260	4.6	8.8	7.4	38	11.5	13	3.68	0.871	0.62	0.3	2.38
JUL													
09...	0900	191	1.5	8.0	7.4	29	14.0	10	2.79	0.630	0.47	0.3	2.08
23...	0915	182	2.6	8.0	7.3	27	16.5	10	2.85	0.617	0.46	0.3	1.94
AUG													
13...	0915	162	2.9	8.0	7.6	40	17.5	14	4.14	0.933	0.55	0.3	2.25
SEP													
10...	0925	101	1.2	8.1	7.4	55	13.5	19	5.52	1.29	0.66	0.3	2.62

BIG THOMPSON PROJECT—Continued

06736700 BIG THOMPSON RIVER ABOVE DILLIE TUNNEL NEAR DRAKE, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
OCT 09...	E21	2.68	3.3	--	--	--	36	0.26	<0.015	0.036	0.034	0.044	0.057
NOV 20...	23	2.77	3.5	33	0.05	2.80	39	0.19	<0.015	0.311	0.012	0.019	0.032
DEC 11...	E27	3.00	4.0	--	--	--	51	0.22	<0.015	0.567	0.029	0.037	0.048
JAN 15...	28	2.31	3.7	40	0.07	3.28	48	0.27	0.088	0.500	0.042	0.047	0.059
FEB 12...	29	4.41	4.5	45	0.07	3.96	51	0.24	0.056	0.534	0.034	0.042	0.053
MAR 26...	27	13.8	12.0	77	0.14	21.0	101	0.44	E.009	1.77	0.023	0.034	0.050
APR 16...	27	10.1	9.5	59	0.11	21.2	84	0.49	E.009	0.386	0.009	0.021	0.067
MAY 07...	21	8.91	7.2	46	0.09	22.1	63	0.40	E.008	0.186	E.004	0.013	0.043
MAY 21...	17	4.64	5.7	35	0.08	39.6	62	0.41	E.008	0.240	0.011	0.018	0.050
JUN 04...	10	1.20	2.3	16	0.04	70.4	32	0.36	<0.015	0.177	E.006	0.012	0.038
JUN 18...	12	2.05	2.8	21	0.06	28.6	41	0.24	E.011	0.298	0.015	0.022	0.043
JUL 09...	10	1.57	2.0	17	0.04	14.4	28	0.26	0.016	0.266	0.035	0.043	0.061
JUL 23...	10	1.40	1.8	16	0.04	13.3	27	0.20	E.010	0.285	0.044	0.054	0.061
AUG 13...	15	1.39	2.5	21	0.04	13.2	30	0.25	<0.015	0.156	0.034	0.042	0.059
SEP 10...	21	2.10	3.3	29	0.06	12.9	47	0.25	<0.015	0.264	0.027	0.039	0.061

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
OCT 09...	0.3	0.9	72	0.16	3.5	<0.02	0.38	<0.20
NOV 20...	E.1	0.7	32	E.06	3.3	<0.02	0.38	<0.20
DEC 11...	E.2	0.9	37	E.07	3.8	<0.02	0.60	<0.20
JAN 15...	<0.3	0.8	20	0.17	3.4	<0.02	0.47	<0.20
FEB 12...	<0.3	0.9	23	<0.08	2.2	<0.02	0.43	<0.20
MAR 26...	E.3	1.6	68	E.06	7.0	<0.02	0.50	<0.20
APR 16...	E.2	1.7	76	E.07	9.4	<0.02	0.71	<0.20
MAY 07...	E.2	1.4	94	0.09	10.4	<0.02	0.59	<0.20
MAY 21...	E.3	1.7	89	0.09	6.1	<0.02	0.39	<0.20
JUN 04...	<0.3	1.2	75	<0.08	4.1	<0.02	0.34	<0.20
JUN 18...	<0.3	1.0	57	E.05	3.1	<0.02	0.31	<0.20
JUL 09...	<0.3	0.9	52	E.04	2.9	<0.02	0.24	<0.20
JUL 23...	<0.3	0.8	61	<0.08	2.3	<0.02	0.20	<0.20
AUG 13...	E.2	0.7	51	<0.08	2.9	<0.02	0.33	<0.20
SEP 10...	E.2	0.7	46	0.09	3.2	<0.02	0.17	<0.20

< -- Actual value is known to be less than the value shown.
 E -- Estimated laboratory analysis value.

PLATTE RIVER BASIN

BIG THOMPSON PROJECT—Continued

06736700 BIG THOMPSON RIVER ABOVE DILLIE TUNNEL NEAR DRAKE, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
OCT					
09...	<0.4	<0.4	<0.4	<0.4	<0.4
NOV					
20...	<0.4	<0.4	<0.4	<0.4	<0.4
DEC					
11...	<0.4	<0.4	<0.4	<0.4	<0.4
JAN					
15...	<0.4	<0.4	<0.4	<0.4	<0.4
FEB					
12...	<0.4	<0.4	<0.4	<0.4	<0.4
MAR					
26...	<0.4	<0.4	<0.4	<0.4	<0.4
APR					
16...	<0.4	<0.4	<0.4	<0.4	<0.4
MAY					
07...	<0.4	<0.4	<0.4	<0.4	<0.4
21...	<0.4	<0.4	<0.4	<0.4	<0.4
JUN					
04...	<0.4	<0.4	<0.4	<0.4	<0.4
18...	<0.4	<0.4	<0.4	<0.4	<0.4
JUL					
09...	<0.4	<0.4	<0.4	<0.4	<0.4
23...	<0.4	<0.4	<0.4	<0.4	<0.4
AUG					
15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP					
10...	<0.4	<0.4	<0.4	<0.4	<0.4

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

BIG THOMPSON PROJECT—Continued

402227105134700 HANSEN CANAL BELOW FLATIRON RESERVOIR NEAR LOVELAND, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°22'27", long 105°13'47", in NW¹/₄NW¹/₄ sec.27, T.5 N., R.70 W., Larimer County, Hydrologic Unit 10190006, at siphon entrance at north end of Flatiron Reservoir, 10 mi southwest of Loveland.

PERIOD OF RECORD.--August 2000 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=402227105134700

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unflab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
OCT													
10...	1300	14	3.2	--	8.5	61	15.5	26	7.88	1.43	0.67	0.2	2.34
NOV													
21...	1235	77	1.4	--	7.7	50	4.0	20	6.07	1.22	0.64	0.2	2.01
DEC													
12...	1240	66	1.5	10.7	8.1	54	2.5	22	6.64	1.29	0.65	0.2	2.11
JAN													
16...	1235	112	1.1	10.9	8.1	63	2.5	26	8.03	1.51	0.77	0.2	2.46
FEB													
13...	1300	62	1.3	11.0	8.4	65	2.5	25	7.73	1.47	0.78	0.2	2.54
MAR													
28...	0915	58	6.5	12.7	8.0	75	5.0	30	8.96	1.88	0.75	0.3	3.21
APR													
17...	1245	48	2.2	9.7	8.6	85	9.5	32	9.45	2.01	1.01	0.3	4.04
MAY													
09...	0855	50	4.8	9.1	7.7	101	10.5	32	9.18	2.31	1.02	0.4	5.61
23...	0925	255	3.1	9.9	7.7	63	10.5	21	5.98	1.55	0.77	0.3	3.57
JUN													
05...	1245	415	5.5	10.3	7.5	26	10.0	10	2.98	0.691	0.56	0.2	1.39
19...	1230	542	3.2	9.4	7.6	23	11.0	8	2.41	0.589	0.33	0.2	1.22
JUL													
09...	1300	368	3.6	8.3	7.4	23	16.0	9	2.53	0.548	0.27	0.2	1.27
24...	1130	341	4.2	8.0	7.2	20	18.0	8	2.39	0.479	0.25	0.2	1.05
AUG													
14...	1200	438	2.9	7.8	7.6	33	19.5	14	4.06	0.865	0.41	0.2	1.50
SEP													
11...	1130	494	3.4	8.3	7.6	51	15.5	20	5.89	1.25	0.51	0.2	1.83

PLATTE RIVER BASIN
BIG THOMPSON PROJECT—Continued

402227105134700 HANSEN CANAL BELOW FLATIRON RESERVOIR NEAR LOVELAND, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
OCT 10...	E28	0.77	2.8	--	--	--	35	0.31	<0.015	<0.022	<0.007	0.005	0.026
NOV 21...	23	0.74	2.8	28	0.05	7.31	35	0.16	E.009	0.062	<0.007	E.003	0.005
DEC 12...	E24	1.33	2.6	--	--	--	32	0.20	E.011	0.056	<0.007	E.003	0.010
JAN 16...	29	0.44	3.0	34	0.05	12.0	40	0.22	<0.015	0.042	<0.007	E.004	0.012
FEB 13...	30	1.29	3.2	35	0.06	7.31	44	0.17	<0.015	0.043	<0.007	0.005	0.014
MAR 28...	31	2.51	4.3	41	0.07	8.59	55	0.27	<0.015	0.144	<0.007	E.004	0.019
APR 17...	31	4.34	4.5	44	0.07	6.77	53	0.47	<0.015	E.013	<0.007	0.005	0.017
MAY 09...	26	9.59	6.8	50	0.09	8.68	65	0.38	E.011	0.118	<0.007	0.004	0.024
MAY 23...	17	5.45	4.6	33	0.06	32.8	48	0.38	0.018	0.140	<0.007	0.005	0.019
JUN 05...	9	1.26	2.0	15	0.04	30.3	27	0.26	E.009	0.164	<0.007	0.005	0.022
JUN 19...	8	1.06	1.7	13	0.03	37.4	26	0.18	0.016	0.152	<0.007	0.005	0.015
JUL 09...	9	0.86	1.6	13	0.03	18.7	19	0.18	E.012	0.088	<0.007	0.006	0.014
JUL 24...	9	0.67	1.4	12	0.03	17.2	19	0.22	E.009	0.066	<0.007	0.005	0.016
AUG 14...	14	0.56	2.2	18	0.04	33.4	28	0.25	E.012	0.028	<0.007	0.004	0.020
SEP 11...	22	1.03	3.1	27	0.04	41.9	31	0.27	0.023	0.034	<0.007	E.004	0.023

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
OCT 10...	0.5	2.1	16	E.04	1.7	<0.02	0.34	<0.20
NOV 21...	E.2	2.4	17	E.05	2.2	<0.02	0.35	<0.20
DEC 12...	E.2	0.6	E8	<0.08	0.7	<0.02	0.46	<0.20
JAN 16...	E.2	0.7	E10	0.17	13.1	<0.02	0.49	<0.20
FEB 13...	E.2	0.8	E10	<0.08	3.2	<0.02	0.44	<0.20
MAR 28...	E.2	1.6	20	<0.08	0.4	<0.02	0.29	<0.20
APR 17...	<0.3	7.3	42	<0.08	0.9	<0.02	0.53	<0.20
MAY 09...	E.2	4.3	59	E.05	0.8	<0.02	0.64	<0.20
MAY 23...	0.3	7.1	86	0.13	4.5	<0.02	0.31	<0.20
JUN 05...	E.2	1.7	84	E.06	11.1	<0.02	0.35	<0.20
JUN 19...	E.2	16.0	70	0.12	9.4	<0.02	0.29	<0.20
JUL 09...	<0.3	1.3	57	<0.08	5.3	<0.02	0.21	<0.20
JUL 24...	<0.3	1.6	53	<0.08	3.3	<0.02	0.20	<0.20
AUG 14...	E.2	1.0	47	<0.08	1.0	<0.02	0.31	<0.20
SEP 11...	E.2	6.7	52	E.05	1.6	<0.02	0.28	<0.20

< -- Actual value is known to be less than the value shown.
E -- Estimated laboratory analysis value.

BIG THOMPSON PROJECT—Continued

402227105134700 HANSEN CANAL BELOW FLATIRON RESERVOIR NEAR LOVELAND, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
OCT					
10...	<0.4	<0.4	<0.4	<0.4	<0.4
NOV					
21...	<0.4	<0.4	<0.4	<0.4	<0.4
DEC					
12...	<0.4	<0.4	<0.4	<0.4	<0.4
JAN					
16...	<0.4	<0.4	<0.4	<0.4	<0.4
FEB					
13...	<0.4	<0.4	<0.4	<0.4	<0.4
MAR					
28...	<0.4	<0.4	<0.4	<0.4	<0.4
APR					
17...	<0.4	<0.4	<0.4	<0.4	<0.4
MAY					
09...	<0.4	<0.4	<0.4	<0.4	<0.4
23...	<0.4	<0.4	<0.4	<0.4	<0.4
JUN					
05...	<0.4	<0.4	<0.4	<0.4	<0.4
19...	<0.4	<0.4	<0.4	<0.4	<0.4
JUL					
10...	<0.4	<0.4	<0.4	<0.4	<0.4
24...	<0.4	<0.4	<0.4	<0.4	<0.4
AUG					
15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP					
11...	<0.4	<0.4	<0.4	<0.4	<0.4

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

BIG THOMPSON PROJECT—Continued

402524105133300 HANSEN CANAL BELOW TRIFURCATION NEAR LOVELAND, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°25'24", long 105°13'33", in SW¹/₄SW¹/₄ sec.3, T.5 N., R.70 W., Larimer County, Hydrologic Unit 10190006, at gate 1.1 mi from Hwy 34, 8.6 mi west of Loveland.

PERIOD OF RECORD.--August 2000 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=402524105133300

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
NOV 21...	1350	71	1.2	10.4	7.9	50	5.5	20	6.12	1.17	0.63	0.2	2.05
DEC 13...	0845	70	1.8	11.1	7.8	55	2.0	22	6.60	1.28	0.70	0.2	2.07
JAN 16...	1355	104	<1.0	11.5	8.2	59	3.0	26	8.04	1.51	0.76	0.2	2.46
FEB 14...	0850	69	1.0	11.1	8.0	65	2.5	26	7.95	1.50	0.81	0.2	2.59
MAR 28...	1035	51	4.7	10.5	8.4	79	4.5	32	9.74	1.97	0.83	0.3	3.55
APR 17...	1410	2.8	1.8	9.5	8.4	81	12.0	31	9.31	1.95	0.99	0.3	3.79
MAY 09...	1030	48	3.2	9.0	8.7	101	10.5	33	9.28	2.32	1.02	0.4	5.57
23...	1040	76	3.8	10.6	7.8	61	10.5	21	5.88	1.51	0.77	0.4	3.72
JUN 06...	0850	46	4.7	9.8	7.2	28	9.0	11	3.34	0.752	0.52	0.2	1.49
20...	0900	94	2.7	9.4	7.2	21	11.0	8	2.33	0.571	0.34	0.2	1.18
JUL 11...	0850	191	2.8	8.5	7.2	23	15.0	8	2.47	0.543	0.33	0.2	1.51
24...	1240	213	2.5	8.0	7.4	21	18.5	8	2.39	0.480	0.30	0.2	1.11
AUG 14...	1320	376	2.4	8.1	7.5	35	19.5	14	4.01	0.862	0.46	0.2	1.64
SEP 11...	1250	336	3.1	8.3	7.8	51	15.0	20	5.99	1.28	0.60	0.2	1.97

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
NOV 21...	23	0.74	2.8	28	0.05	6.94	36	0.16	<0.015	0.060	<0.007	<0.004	0.007
DEC 13...	E25	1.40	2.8	--	--	--	40	0.20	E.009	0.055	<0.007	E.003	0.010
JAN 16...	29	0.42	2.9	33	0.06	11.5	41	0.20	<0.015	0.039	<0.007	E.003	0.013
FEB 14...	30	0.55	3.1	34	0.05	7.15	38	0.17	<0.015	0.038	<0.007	0.004	0.015
MAR 28...	31	2.65	4.4	43	0.07	7.14	52	0.29	<0.015	0.147	<0.007	E.003	0.020
APR 17...	31	3.75	4.2	42	0.07	0.39	53	0.32	E.012	E.018	<0.007	0.008	0.016
MAY 09...	26	9.53	6.8	50	0.09	8.60	67	0.37	E.011	0.103	<0.007	E.003	0.022
23...	16	4.88	4.9	32	0.07	10.8	53	0.36	E.013	0.159	E.004	0.015	0.033
JUN 06...	10	0.95	2.1	16	0.04	3.75	30	0.24	<0.015	0.148	<0.007	0.005	0.019
20...	8	1.00	1.7	13	0.04	6.77	27	0.20	E.011	0.151	<0.007	E.004	0.016
JUL 11...	9	1.00	1.6	14	0.03	10.9	21	0.18	E.014	0.150	0.010	0.015	0.026
24...	9	0.69	1.4	12	0.03	13.0	23	0.21	E.012	0.085	E.004	0.010	0.020
AUG 14...	14	0.77	2.3	19	0.04	28.3	28	0.25	E.013	0.063	0.008	0.014	0.029
SEP 11...	21	1.16	3.3	27	0.06	37.8	42	0.29	0.024	0.054	<0.007	0.007	0.026

BIG THOMPSON PROJECT—Continued

402524105133300 HANSEN CANAL BELOW TRIFURCATION NEAR LOVELAND, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
NOV 21...	E.2	2.5	16	E.05	2.3	<0.02	0.38	<0.20
DEC 13...	E.2	0.9	12	0.08	0.6	<0.02	0.45	<0.20
JAN 16...	E.1	0.9	E7	E.06	13.4	<0.02	0.47	<0.20
FEB 14...	E.2	4.9	11	<0.08	3.6	<0.02	0.43	<0.20
MAR 28...	0.3	2.0	20	<0.08	0.6	<0.02	0.35	<0.20
APR 17...	E.2	12.6	34	<0.08	1.3	<0.02	0.53	<0.20
MAY 09...	E.2	4.6	60	E.05	0.7	<0.02	0.63	<0.20
23...	E.2	5.0	86	0.08	5.0	<0.02	0.34	<0.20
JUN 06...	<0.3	1.6	72	<0.08	9.4	<0.02	0.32	<0.20
20...	<0.3	11.6	69	E.05	8.0	<0.02	0.28	<0.20
JUL 11...	<0.3	1.2	55	E.08	2.3	<0.02	0.20	<0.20
24...	<0.3	1.7	50	E.06	3.2	<0.02	0.19	<0.20
AUG 14...	E.2	1.0	49	<0.08	2.1	<0.02	0.31	<0.20
SEP 11...	E.2	6.3	63	E.05	1.9	<0.02	0.28	<0.20

< -- Actual value is known to be less than the value shown.
 E -- Estimated laboratory analysis value.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethylbenzene water unfltrd ug/L (34371)	meta- + para-Xylene, water, unfltrd ug/L (85795)	o-Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
NOV 21...	<0.4	<0.4	<0.4	<0.4	<0.4
DEC 13...	<0.4	<0.4	<0.4	<0.4	<0.4
JAN 16...	<0.4	<0.4	<0.4	<0.4	<0.4
FEB 14...	<0.4	<0.4	<0.4	<0.4	<0.4
MAR 28...	<0.4	<0.4	<0.4	<0.4	<0.4
APR 17...	<0.4	<0.4	<0.4	<0.4	<0.4
MAY 09...	<0.4	<0.4	<0.4	<0.4	<0.4
23...	<0.4	<0.4	<0.4	<0.4	<0.4
JUN 06...	<0.4	<0.4	<0.4	<0.4	<0.4
20...	<0.4	<0.4	<0.4	<0.4	<0.4
JUL 11...	<0.4	<0.4	<0.4	<0.4	<0.4
24...	<0.4	<0.4	<0.4	<0.4	<0.4
AUG 15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP 11...	<0.4	<0.4	<0.4	<0.4	<0.4

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

BIG THOMPSON PROJECT—Continued

403020105114700 HANSEN CANAL ABOVE TUNNEL NO 5 NEAR LOVELAND, CO

WATER-QUALITY RECORDS

LOCATION.—Lat 40°30'20", long 105°11'47", in NW¹/₄NE¹/₄ sec.11, T.6 N., R.70 W., Larimer County, Hydrologic Unit 10190006, at 2.25 mi west of Horsetooth Reservoir (south inlet), 4.8 mi west of Ft. Collins.

PERIOD OF RECORD.—August 2000 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=403020105114700

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
NOV 22...	0840	73	1.5	11.7	7.6	51	3.5	21	6.54	1.23	0.61	0.2	2.15
DEC 13...	0955	77	1.2	11.3	8.1	55	2.0	22	6.68	1.29	0.66	0.2	2.11
JAN 17...	0905	119	1.1	11.2	8.0	62	2.0	26	7.90	1.48	0.71	0.2	2.42
FEB 14...	1035	74	1.5	11.3	8.2	65	2.5	24	7.18	1.38	0.78	0.2	2.39
MAR 28...	1210	51	4.1	10.6	8.5	84	4.5	31	9.22	1.92	0.81	0.3	3.41
MAY 09...	1210	51	2.6	9.5	9.0	100	10.0	32	9.09	2.28	0.99	0.4	5.51
23...	1145	80	3.6	11.4	7.8	63	12.0	21	5.89	1.51	0.77	0.4	3.76
JUN 06...	1010	55	4.0	9.5	7.6	27	10.0	11	3.20	0.739	0.50	0.2	1.42
20...	1020	98	3.2	9.3	7.4	24	11.5	10	2.76	0.649	0.35	0.2	1.33
JUL 11...	1005	206	2.2	8.3	7.5	23	16.0	8	2.47	0.536	0.32	0.2	1.46
25...	0855	247	3.0	8.1	7.5	21	18.0	8	2.41	0.475	0.27	0.2	1.15
AUG 15...	0900	403	2.6	8.1	7.5	36	18.5	14	4.01	0.857	0.43	0.2	1.69
SEP 11...	1355	315	3.3	8.7	7.7	51	15.0	21	6.22	1.21	0.64	0.2	2.16

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt fxd end lab, mg/L as CaCO ₃ (29801)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
NOV 22...	23	1.82	2.8	29	0.05	7.27	37	0.34	<0.015	0.058	<0.007	E.004	0.005
DEC 13...	E25	0.61	2.7	--	--	--	38	0.19	<0.015	0.054	<0.007	E.003	0.010
JAN 17...	29	0.42	2.9	33	0.06	13.7	42	0.20	<0.015	0.039	<0.007	E.004	0.012
FEB 14...	30	0.59	3.1	33	0.06	8.74	44	0.19	<0.015	0.030	<0.007	E.004	0.015
MAR 28...	31	2.50	4.5	42	0.08	7.97	58	0.27	<0.015	0.150	<0.007	E.004	0.020
MAY 09...	26	9.50	6.7	50	0.10	10.1	74	0.41	E.011	0.091	<0.007	E.003	0.021
23...	17	4.99	5.0	33	0.08	12.0	56	0.41	E.012	0.162	E.005	0.011	0.031
JUN 06...	10	0.90	2.1	16	0.04	4.30	29	0.22	E.011	0.157	<0.007	0.006	0.018
20...	9	0.83	2.0	14	0.04	8.06	30	0.23	E.010	0.160	<0.007	0.016	0.020
JUL 11...	9	1.00	1.6	14	0.03	10.2	18	0.21	0.017	0.153	0.009	0.015	0.026
25...	9	0.76	1.4	12	0.03	14.1	21	0.21	0.017	0.082	E.005	0.010	0.020
AUG 15...	14	0.79	2.4	19	0.03	26.4	24	0.19	E.011	0.062	E.004	0.009	0.027
SEP 11...	--	1.11	3.4				33	0.24	0.020	0.053	<0.007	0.007	0.026

BIG THOMPSON PROJECT—Continued

403020105114700 HANSEN CANAL ABOVE TUNNEL NO 5 NEAR LOVELAND, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan- ese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
NOV 22...	E.2	1.8	16	<0.08	1.6	<0.02	0.34	<0.2
DEC 13...	E.2	1.3	E9	E.05	0.7	<0.02	0.46	<0.2
JAN 17...	E.2	1.4	<10	0.25	11.8	<0.02	0.41	<0.2
FEB 14...	E.2	3.0	10	<0.08	2.5	<0.02	0.43	<0.2
MAR 28...	E.2	2.7	15	<0.08	1.2	<0.02	0.32	<0.2
MAY 09...	E.2	5.2	58	E.05	0.8	<0.02	0.64	<0.2
23...	E.2	5.2	90	E.07	4.7	<0.02	0.33	<0.2
JUN 06...	<0.3	2.2	77	<0.08	8.8	<0.02	0.33	<0.2
20...	<0.3	11.0	68	<0.08	6.7	<0.02	0.29	<0.2
JUL 11...	<0.3	1.3	56	E.05	2.4	<0.02	0.20	<0.2
25...	<0.3	1.8	46	0.11	1.7	<0.02	0.17	<0.2
AUG 15...	E.2	1.2	44	E.04	0.7	<0.02	0.30	<0.2
SEP 11...	E.3	6.6	54	<0.08	1.9	<0.02	0.19	<0.2

< -- Actual value is known to be less than the value shown.
E -- Estimated laboratory analysis value.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
NOV 22...	<0.4	<0.4	<0.4	<0.4	<0.4
DEC 13...	<0.4	<0.4	M	<0.4	<0.4
JAN 17...	<0.4	<0.4	<0.4	<0.4	<0.4
FEB 14...	<0.4	<0.4	<0.4	<0.4	<0.4
MAR 28...	<0.4	<0.4	<0.4	<0.4	<0.4
MAY 09...	<0.4	<0.4	M	<0.4	<0.4
23...	<0.4	<0.4	M	<0.4	<0.4
JUN 06...	<0.4	<0.4	M	<0.4	<0.4
20...	<0.4	<0.4	<0.4	<0.4	<0.4
JUL 11...	<0.4	<0.4	<0.4	<0.4	<0.4
25...	<0.4	<0.4	<0.4	<0.4	<0.4
AUG 15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP 11...	<0.4	<0.4	<0.4	<0.4	<0.4

< -- Actual value is known to be less than the value shown.
M -- Presence of material verified but not quantified.

PLATTE RIVER BASIN
BIG THOMPSON PROJECT—Continued

403814105111800 HANSEN CANAL ABV GREELEY FILTRATION PLANT NR LAPORTE, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°38'14", long 105°11'18", in SW¹/₄NE¹/₄ sec.23, T.8 N., R.70 W., Larimer County, Hydrologic Unit 10190006, 9.4 mi north of Fort Collins.

PERIOD OF RECORD.--August 2000 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=403814105111800

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
JUL													
11...	1155	76	8.1	9.2	7.8	79	14.0	33	10.3	1.86	0.88	0.2	3.12
25...	1045	35	8.1	9.7	7.8	77	15.5	33	10.2	1.74	0.82	0.2	2.91
AUG													
15...	1050	239	5.2	9.5	7.8	56	19.0	24	7.38	1.31	0.67	0.2	2.14
SEP													
12...	0905	92	2.2	8.3	7.6	51	18.0	20	6.10	1.20	0.47	0.2	1.71

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
JUL													
11...	34	1.67	4.2	43	0.07	10.8	53	0.18	<0.015	0.166	<0.007	0.005	0.020
25...	32	2.02	4.2	42	0.07	4.88	51	0.33	<0.015	0.152	<0.007	0.005	0.018
AUG													
15...	23	1.53	2.7	30	0.06	26.3	41	0.20	<0.015	0.127	<0.007	0.005	0.017
SEP													
12...	21	1.31	3.0	27	0.05	9.54	38	0.18	<0.015	0.075	<0.007	E.004	0.014

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic, water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury, water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
JUL								
11...	0.3	2.6	E6	<0.08	0.7	<0.02	0.48	<0.20
25...	0.4	2.8	9	<0.08	0.8	<0.02	0.54	<0.20
AUG								
15...	0.3	3.3	22	<0.08	2.0	<0.02	0.51	<0.20
SEP								
12...	0.3	3.5	17	<0.08	0.7	<0.02	0.20	<0.20

< -- Actual value is known to be less than the value shown.
E -- Estimated laboratory analysis value.

BIG THOMPSON PROJECT—Continued

403814105111800 HANSEN CANAL ABV GREELEY FILTRATION PLANT NR LAPORTE, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
JUL					
11...	<0.4	<0.4	<0.4	<0.4	<0.4
25...	<0.4	<0.4	<0.4	<0.4	<0.4
AUG					
15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP					
12...	<0.4	<0.4	<0.4	<0.4	<0.4

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

PLATTE RIVER BASIN
BIG THOMPSON PROJECT—Continued

402518105131300 BIG THOMPSON RIVER BELOW BIG THOMPSON POWER PLANT NEAR LOVELAND, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°25'18", long 105°13'13", in SW¹/₄SE¹/₄ sec.3, T.5 N., R.70 W., Larimer County, Hydrologic Unit 10190006, approximately 280 ft downstream of bridge, approximately 1.7 mi from Hwy 34, approximately 880 ft downstream of Big Thompson Hydroelectric Power Plant.

DRAINAGE AREA.--306 mi².

PERIOD OF RECORD.--March 2001 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=402518105131300

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
OCT 09...	1050	57	11	--	7.9	58	11.0	20	6.15	1.24	0.71	0.3	3.46
NOV 20...	1100	29	<1.0	12.5	8.0	62	1.5	20	6.00	1.29	0.72	0.4	3.73
DEC 11...	1040	26	1.1	12.6	8.3	79	0.5	26	7.91	1.60	1.00	0.4	4.65
JAN 15...	1045	29	<1.0	12.3	8.2	73	0.0	26	7.89	1.59	0.97	0.4	4.41
FEB 12...	1200	28	<1.0	12.9	7.7	83	1.0	28	8.23	1.70	1.07	0.4	5.16
MAR 26...	1110	64	6.7	10.6	8.2	138	6.0	42	12.2	2.88	1.37	0.6	8.32
APR 16...	1015	154	3.6	10.1	8.2	103	8.0	34	9.76	2.32	1.06	0.4	6.01
MAY 07...	1100	117	4.0	9.9	8.1	93	8.0	29	8.21	2.09	0.88	0.4	5.31
21...	1120	412	3.9	9.4	7.9	68	10.0	23	6.49	1.65	0.85	0.4	4.12
JUN 04...	1140	1,030	5.8	9.7	7.5	28	10.0	11	3.10	0.729	0.60	0.2	1.73
18...	1045	594	3.0	9.1	7.6	26	11.5	9	2.67	0.633	0.46	0.2	1.40
JUL 09...	1045	346	<1.0	8.2	7.5	23	15.5	8	2.43	0.540	0.33	0.2	1.45
23...	1020	268	3.1	8.0	7.5	24	17.5	9	2.66	0.557	0.36	0.2	1.54
AUG 13...	1030	151	3.1	7.8	7.6	35	19.0	16	4.84	1.05	0.58	0.2	1.72
SEP 10...	1045	230	2.9	8.5	7.7	52	15.0	20	5.81	1.25	0.55	0.2	1.95

BIG THOMPSON PROJECT—Continued

402518105131300 BIG THOMPSON RIVER BELOW BIG THOMPSON POWER PLANT NEAR LOVELAND, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
OCT 09...	E23	2.18	3.2	--	--	--	35	0.28	<0.015	0.031	0.020	0.030	0.045
NOV 20...	23	2.90	3.6	33	0.05	2.70	35	0.19	<0.015	0.252	E.005	0.011	0.019
DEC 11...	E28	3.33	4.1	--	--	--	47	0.20	<0.015	0.561	0.015	0.022	0.037
JAN 15...	28	2.34	3.7	40	0.07	3.83	50	0.25	0.076	0.500	0.040	0.045	0.058
FEB 12...	29	4.47	<0.2	--	--	--	53	0.22	0.033	0.521	0.027	0.035	0.045
MAR 26...	27	12.8	10.6	71	0.13	16.1	93	0.63	E.014	1.51	0.019	0.029	0.109
APR 16...	28	7.56	7.4	52	0.10	32.1	77	0.41	E.008	0.203	E.005	0.015	0.045
MAY 07...	21	9.17	7.2	46	0.09	20.5	65	0.34	E.009	0.163	E.005	0.013	0.043
MAY 21...	18	5.41	5.3	35	0.07	56.2	51	0.40	0.016	0.185	E.006	0.014	0.040
JUN 04...	10	1.17	2.2	16	0.04	88.3	32	0.31	<0.015	0.179	<0.007	0.012	0.036
JUN 18...	9	1.09	1.9	14	0.03	38.6	24	0.17	E.009	0.185	<0.007	0.007	0.019
JUL 09...	9	1.04	1.7	14	0.03	17.8	19	0.21	E.010	0.137	0.009	0.015	0.025
JUL 23...	9	1.05	1.6	14	0.03	14.4	20	0.18	<0.015	0.173	0.019	0.028	0.035
AUG 13...	14	1.05	2.2	20	0.04	11.1	27	0.33	0.019	0.055	0.009	0.014	0.034
SEP 10...	22	1.27	3.2	27	0.05	24.4	39	0.28	E.014	0.075	<0.007	0.011	0.031

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
OCT 09...	0.3	1.2	52	0.09	2.4	<0.02	0.37	<0.20
NOV 20...	E.1	1.3	30	0.10	2.3	<0.02	0.39	<0.20
DEC 11...	E.2	0.9	34	E.07	2.6	<0.02	0.63	<0.20
JAN 15...	<0.3	0.8	20	0.17	2.1	<0.02	0.48	<0.20
FEB 12...	<0.3	0.9	22	<0.08	1.5	<0.02	0.42	<0.20
MAR 26...	0.3	1.7	58	0.16	7.8	<0.02	0.49	<0.20
APR 16...	E.2	3.7	54	E.06	4.4	<0.02	0.61	<0.20
MAY 07...	E.2	1.5	90	0.09	7.7	<0.02	0.57	<0.20
MAY 21...	E.2	5.2	93	E.06	4.5	<0.02	0.37	<0.20
JUN 04...	E.1	1.6	75	0.13	6.3	<0.02	0.33	<0.20
JUN 18...	<0.3	1.2	68	<0.08	7.0	<0.02	0.28	<0.20
JUL 09...	<0.3	13.6	52	0.11	3.1	<0.02	0.24	<0.20
JUL 23...	<0.3	1.4	58	<0.08	2.5	<0.02	0.19	<0.20
AUG 13...	E.2	20.3	63	<0.08	2.9	<0.02	0.31	<0.20
SEP 10...	E.2	1.2	39	E.05	1.3	<0.02	0.17	<0.20

< -- Actual value is known to be less than the value shown.
 E -- Estimated laboratory analysis value.

PLATTE RIVER BASIN

BIG THOMPSON PROJECT—Continued

402518105131300 BIG THOMPSON RIVER BELOW BIG THOMPSON POWER PLANT NEAR LOVELAND, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
OCT					
09...	<0.4	<0.4	<0.4	<0.4	<0.4
NOV					
20...	<0.4	<0.4	<0.4	<0.4	<0.4
DEC					
11...	<0.4	<0.4	<0.4	<0.4	<0.4
JAN					
15...	<0.4	<0.4	<0.4	<0.4	<0.4
FEB					
12...	<0.4	<0.4	<0.4	<0.4	<0.4
MAR					
26...	<0.4	<0.4	<0.4	<0.4	<0.4
APR					
16...	<0.4	<0.4	<0.4	<0.4	<0.4
MAY					
07...	<0.4	<0.4	<0.4	<0.4	<0.4
21...	<0.4	<0.4	<0.4	<0.4	<0.4
JUN					
04...	<0.4	<0.4	<0.4	<0.4	<0.4
18...	<0.4	<0.4	<0.4	<0.4	<0.4
JUL					
09...	<0.4	<0.4	<0.4	<0.4	<0.4
23...	<0.4	<0.4	<0.4	<0.4	<0.4
AUG					
15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP					
10...	<0.4	<0.4	<0.4	<0.4	<0.4

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

BIG THOMPSON PROJECT—Continued

402533105124300 BIG THOMPSON RIVER BELOW SULZER GULCH NEAR LOVELAND, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°25'33", long 105°12'43", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.3, T.5 N., R.70 W., Larimer County, Hydrologic Unit 10190006, approximately 230 ft downstream of bridge upstream of dam and Loveland Water Treatment Plant intake, approximately 1.2 mi from Hwy 34, and approximately 8.3 mi west of Loveland.

DRAINAGE AREA.--309 mi².

PERIOD OF RECORD.--August 2000 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=402533105124300

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
OCT													
09...	1240	61	3.6	--	8.1	57	12.0	21	6.26	1.25	0.86	0.3	3.49
NOV													
20...	1225	28	1.0	12.5	9.0	64	2.5	21	6.30	1.34	0.78	0.4	3.84
DEC													
11...	1210	28	<1.0	13.2	8.7	80	1.0	27	8.07	1.63	0.97	0.4	4.66
JAN													
15...	1220	28	<1.0	12.4	8.2	73	0.5	26	7.81	1.59	1.00	0.4	4.29
FEB													
12...	1250	30	<1.0	13.4	8.6	83	1.0	28	8.30	1.71	1.03	0.4	5.14
MAR													
26...	1305	72	4.5	10.1	8.2	150	8.5	45	13.0	3.08	1.48	0.6	9.22
APR													
16...	1135	167	3.2	9.8	8.2	105	9.0	34	9.88	2.34	1.18	0.4	5.94
MAY													
07...	1240	129	5.2	9.7	8.3	93	10.0	29	8.29	2.09	0.89	0.4	5.32
21...	1250	424	4.2	9.3	8.0	69	11.5	23	6.61	1.68	0.85	0.4	4.16
JUN													
04...	1305	1,080	6.6	9.3	7.2	29	10.0	11	3.15	0.727	0.59	0.2	1.68
18...	1230	534	3.6	9.2	7.3	27	11.5	10	2.94	0.690	0.42	0.2	1.54
JUL													
09...	1240	419	2.0	8.4	7.4	24	16.5	8	2.49	0.546	0.37	0.2	1.48
23...	1125	250	2.9	7.8	7.3	24	18.0	9	2.56	0.519	0.38	0.2	1.44
AUG													
13...	1150	156	2.9	7.8	7.7	35	20.0	14	4.00	0.853	0.43	0.2	1.66
SEP													
10...	1225	245	2.8	8.6	8.1	53	16.0	21	6.17	1.31	0.58	0.2	2.09

PLATTE RIVER BASIN
BIG THOMPSON PROJECT—Continued

402533105124300 BIG THOMPSON RIVER BELOW SULZER GULCH NEAR LOVELAND, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
OCT 09...	E24	2.24	3.2	--	--	--	28	0.29	E.008	0.023	0.021	0.032	0.047
NOV 20...	24	3.04	3.5	34	0.05	2.94	40	0.18	<0.015	0.196	0.007	0.014	0.019
DEC 11...	E28	3.40	4.0	--	--	--	51	0.24	<0.015	0.470	0.014	0.025	0.038
JAN 15...	28	2.38	3.7	40	0.06	3.45	46	0.26	0.064	0.472	0.039	0.043	0.060
FEB 12...	31	3.69	<0.2	--	--	--	49	0.27	0.032	0.473	0.026	0.033	0.043
MAR 26...	28	13.2	11.6	76	0.13	18.9	97	0.51	0.018	1.68	0.022	0.034	0.059
APR 16...	29	8.03	7.4	53	0.09	29.0	64	0.41	<0.015	0.205	E.005	0.015	0.043
MAY 07...	22	9.07	7.2	47	0.09	23.1	66	0.41	E.011	0.139	E.006	0.014	0.044
MAY 21...	18	5.42	5.4	36	0.08	63.9	56	0.41	0.017	0.167	E.005	0.013	0.038
JUN 04...	10	1.46	2.3	17	0.04	88.6	30	0.27	<0.015	0.173	<0.007	0.011	0.034
JUN 18...	10	1.18	2.0	15	0.04	38.1	26	0.22	E.008	0.193	<0.007	0.008	0.020
JUL 09...	9	1.03	1.7	14	0.03	26.8	24	0.21	E.010	0.135	0.010	0.015	0.025
JUL 23...	9	1.02	1.8	14	0.03	12.7	19	0.26	E.012	0.154	0.020	0.027	0.034
AUG 13...	14	0.97	2.3	19	0.04	12.5	30	0.24	0.017	0.054	0.009	0.016	0.029
SEP 10...	22	1.32	3.3	28	0.05	25.8	39	0.29	0.016	0.072	E.005	0.011	0.032

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
OCT 09...	0.3	1.2	58	E.06	4.1	<0.02	0.37	<0.20
NOV 20...	E.1	0.8	46	E.05	4.7	<0.02	0.40	<0.20
DEC 11...	E.2	0.9	49	0.09	4.9	<0.02	0.59	<0.20
JAN 15...	E.2	0.9	27	0.19	4.2	<0.02	0.50	<0.20
FEB 12...	<0.3	0.9	30	<0.08	3.4	<0.02	0.43	<0.20
MAR 26...	0.3	1.6	60	E.05	5.8	<0.02	0.53	<0.20
APR 16...	E.2	3.7	56	E.05	5.0	<0.02	0.62	<0.20
MAY 07...	E.2	1.6	99	E.06	8.1	<0.02	0.59	<0.20
MAY 21...	E.2	3.6	82	E.06	5.3	<0.02	0.50	<0.20
JUN 04...	E.1	110	70	E.05	6.7	<0.02	0.55	<0.20
JUN 18...	<0.3	1.1	66	E.06	7.0	<0.02	0.33	<0.20
JUL 09...	<0.3	5.9	54	E.07	3.5	<0.02	0.21	<0.20
JUL 23...	<0.3	62.9	52	<0.08	4.0	<0.02	0.19	<0.20
AUG 13...	E.2	9.8	51	0.11	3.8	<0.02	0.30	<0.20
SEP 10...	E.2	1.9	40	0.09	2.3	<0.02	0.16	<0.20

< -- Actual value is known to be less than the value shown.
E -- Estimated laboratory analysis value.

BIG THOMPSON PROJECT—Continued

402533105124300 BIG THOMPSON RIVER BELOW SULZER GULCH NEAR LOVELAND, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
OCT 09...	<0.4	<0.4	<0.4	<0.4	<0.4
NOV 20...	<0.4	<0.4	<0.4	<0.4	<0.4
DEC 11...	<0.4	<0.4	<0.4	<0.4	<0.4
JAN 15...	<0.4	<0.4	<0.4	<0.4	<0.4
FEB 12...	<0.4	<0.4	<0.4	<0.4	<0.4
MAR 26...	<0.4	<0.4	<0.4	<0.4	<0.4
APR 16...	<0.4	<0.4	<0.4	<0.4	<0.4
MAY 07...	<0.4	<0.4	<0.4	<0.4	<0.4
21...	<0.4	<0.4	<0.4	<0.4	<0.4
JUN 04...	<0.4	<0.4	<0.4	<0.4	<0.4
18...	<0.4	<0.4	<0.4	<0.4	<0.4
JUL 09...	<0.4	<0.4	<0.4	<0.4	<0.4
23...	<0.4	<0.4	<0.4	<0.4	<0.4
AUG 15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP 10...	<0.4	<0.4	<0.4	<0.4	<0.4

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

PLATTE RIVER BASIN
BIG THOMPSON PROJECT—Continued

06741510 BIG THOMPSON RIVER AT LOVELAND, CO

WATER-QUALITY RECORDS

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.

PERIOD OF RECORD.--July 1979 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=06741510

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
OCT													
10...	0855	20	4.3	--	8.0	449	12.0	200	55.6	15.2	1.35	0.5	16.0
NOV													
20...	1340	4.3	1.5	10.1	7.9	1,330	7.5	660	164	61.0	3.57	1	66.8
DEC													
11...	1410	3.3	2.4	11.1	8.3	1,450	4.0	700	172	65.4	3.17	1	78.7
JAN													
15...	1350	3.0	1.2	9.2	8.3	1,450	3.5	720	175	68.6	3.28	1	79.4
FEB													
12...	1350	2.5	1.8	12.7	8.4	1,510	4.0	740	181	70.2	3.28	1	79.9
MAR													
27...	0855	4.9	3.8	10.2	7.8	1,510	8.0	730	180	67.6	3.43	1	83.5
APR													
16...	1310	5.3	2.1	10.7	8.4	1,600	15.0	740	184	68.8	3.48	1	76.6
MAY													
08...	1005	4.4	2.6	8.1	7.7	1,530	15.0	710	175	66.3	3.99	1	74.6
22...	0830	3.6	3.3	6.1	7.8	1,710	14.5	780	174	83.7	4.30	2	110
JUN													
05...	0840	125	6.6	9.5	7.7	122	10.0	47	12.5	3.84	0.77	0.3	5.05
19...	0835	196	70	8.2	7.8	213	13.5	83	22.0	6.78	2.06	0.4	8.25
JUL													
10...	0835	49	2.6	7.9	7.8	547	17.0	220	46.8	24.2	1.53	0.8	28.5
23...	1250	79	4.1	8.3	8.3	665	21.5	270	59.6	30.1	1.94	0.9	33.2
AUG													
13...	1300	71	13	8.7	8.4	574	23.0	260	61.8	24.5	2.00	0.7	24.6
SEP													
10...	1350	20	16	9.9	8.5	759	18.5	290	68.8	29.8	2.16	0.8	29.6

BIG THOMPSON PROJECT—Continued

06741510 BIG THOMPSON RIVER AT LOVELAND, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
OCT 10...	E77	5.41	142	--	--	--	295	0.24	<0.015	0.091	<0.007	0.008	0.017
NOV 20...	178	23.1	575	1,000	1.50	12.8	1,100	0.20	E.010	0.338	<0.007	E.004	0.004
DEC 11...	E183	25.3	616	--	--	--	1,170	0.18	0.028	0.434	<0.007	0.006	0.010
JAN 15...	180	24.4	617	1,080	1.62	9.67	1,190	0.20	0.029	0.412	<0.007	0.006	0.013
FEB 12...	181	29.7	650	1,120	1.66	8.22	1,220	0.21	0.060	0.351	<0.007	E.003	0.014
MAR 27...	170	32.6	636	1,110	1.66	16.1	1,220	0.35	0.046	0.388	<0.007	0.007	0.014
APR 16...	172	30.3	638	1,110	1.65	17.4	1,220	0.31	0.045	0.278	<0.007	0.007	0.020
MAY 08...	185	33.3	653	1,120	1.69	14.7	1,240	0.30	0.063	0.353	<0.007	0.007	0.014
MAY 22...	220	40.0	675	1,220	1.88	13.5	1,380	0.46	0.160	0.753	E.005	0.010	0.025
JUN 05...	23	2.82	29.2	69	0.12	30.4	90	0.98	<0.015	0.197	0.007	0.017	0.040
JUN 19...	40	3.90	50.4	120	0.21	79.9	151	1.1	0.050	0.444	0.032	0.049	0.19
JUL 10...	55	6.07	204	345	0.52	50.6	382	1.0	0.021	0.191	E.006	0.012	0.029
JUL 23...	70	7.67	255	430	0.63	99.2	465	0.40	E.010	0.122	E.006	0.014	0.041
AUG 13...	81	8.12	194	364	0.54	75.6	394	0.39	<0.015	0.099	<0.007	0.009	0.042
SEP 10...	103	11.9	271	475	0.74	29.5	546	0.49	E.011	0.105	<0.007	0.010	0.052

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
OCT 10...	0.5	1.4	33	E.05	20.1	<0.02	1.97	<0.2
NOV 20...	0.6	1.8	27	E.05	52.5	<0.02	6.81	<0.2
DEC 11...	0.5	2.5	24	<0.08	48.4	<0.02	9.02	<0.2
JAN 15...	0.5	2.3	16	0.12	48.3	<0.02	6.67	<0.2
FEB 12...	0.4	3.2	15	<0.08	54.3	<0.02	6.11	<0.2
MAR 27...	0.8	3.3	38	<0.08	96.6	<0.02	3.18	<0.2
APR 16...	0.7	3.6	27	<0.08	72.1	<0.02	6.90	<0.2
MAY 08...	0.8	2.5	30	<0.08	116	<0.02	7.45	<0.2
MAY 22...	0.6	7.5	27	<0.08	159	<0.02	2.69	<0.2
JUN 05...	E.2	1.9	66	E.04	15.3	<0.02	0.48	<0.2
JUN 19...	0.4	2.3	58	E.06	14.7	<0.02	1.14	<0.2
JUL 10...	0.4	2.5	37	<0.08	31.2	<0.02	1.75	<0.2
JUL 23...	1.1	2.3	16	<0.08	37.2	<0.02	2.37	<0.2
AUG 13...	1.1	1.5	15	<0.08	18.8	<0.02	3.43	<0.2
SEP 10...	0.9	2.9	E5	<0.08	31.7	<0.02	1.22	<0.2

< -- Actual value is known to be less than the value shown.
E -- Estimated laboratory analysis value.

PLATTE RIVER BASIN

BIG THOMPSON PROJECT—Continued

06741510 BIG THOMPSON RIVER AT LOVELAND, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
OCT					
10...	<0.4	<0.4	<0.4	<0.4	<0.4
NOV					
20...	<0.4	<0.4	<0.4	<0.4	<0.4
DEC					
11...	<0.4	<0.4	<0.4	<0.4	<0.4
JAN					
15...	<0.4	<0.4	<0.4	<0.4	<0.4
FEB					
12...	<0.4	<0.4	<0.4	<0.4	<0.4
MAR					
27...	<0.4	<0.4	<0.4	<0.4	<0.4
APR					
16...	<0.4	<0.4	<0.4	<0.4	<0.4
MAY					
08...	<0.4	<0.4	<0.4	<0.4	<0.4
22...	<0.4	<0.4	<0.4	<0.4	<0.4
JUN					
05...	<0.4	<0.4	<0.4	<0.4	<0.4
19...	<0.4	<0.4	<0.4	<0.4	<0.4
JUL					
10...	<0.4	<0.4	<0.4	<0.4	<0.4
AUG					
15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP					
10...	<0.4	<0.4	<0.4	<0.4	<0.4

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

BIG THOMPSON PROJECT—Continued

06741520 BIG THOMPSON RIVER BELOW LOVELAND, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°23'00", long 105°01'45", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.20, T.5 N., R.68 W., Larimer County, Hydrologic Unit 10190006, at county road 9E bridge, about 0.3 mi upstream from outlet ditch and 2.0 mi southeast of Loveland.

DRAINAGE AREA.--543 mi².

PERIOD OF RECORD.--June 1979 to December 1992, and March 2001 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=06741520

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
OCT													
10...	1005	40	540	--	7.3	548	12.5	220	56.4	19.1	3.04	0.9	30.2
NOV													
21...	0920	11	1.5	8.2	7.6	1,090	8.5	400	95.5	39.6	7.43	2	76.0
DEC													
12...	0840	8.7	2.7	6.9	7.6	1,110	5.5	400	92.8	40.8	7.70	2	82.5
JAN													
16...	0850	7.1	2.9	5.7	7.6	1,090	4.5	390	90.3	38.7	9.36	2	84.0
FEB													
13...	0910	8.8	2.2	5.9	7.2	1,170	6.5	400	93.7	39.2	8.29	2	86.0
MAR													
27...	1035	16	10	9.6	8.2	1,460	9.0	600	138	61.4	6.23	2	108
APR													
17...	0835	11	3.0	6.9	7.9	1,450	10.5	550	119	62.1	8.19	2	118
MAY													
08...	1150	16	3.0	11.0	8.5	1,380	15.0	530	122	54.8	7.38	2	93.9
22...	0945	17	2.9	6.9	7.9	1,400	16.0	500	105	57.6	8.29	2	122
JUN													
05...	1015	140	5.6	9.1	8.0	251	11.5	83	20.0	8.10	1.63	0.7	15.4
19...	0930	204	74	7.7	8.1	390	14.0	130	31.2	12.9	3.03	0.9	24.1
JUL													
10...	0945	72	2.4	7.9	8.1	637	18.5	230	50.6	26.3	2.83	1	40.0
24...	0840	79	11	7.4	7.9	732	19.5	290	63.6	32.2	2.79	1	42.9
AUG													
14...	0915	80	13	7.2	8.0	627	20.5	260	61.8	25.7	2.72	0.9	32.0
SEP													
11...	0845	43	13	7.3	7.9	853	15.5	320	72.3	33.2	3.29	1	45.3

PLATTE RIVER BASIN
BIG THOMPSON PROJECT—Continued

06741520 BIG THOMPSON RIVER BELOW LOVELAND, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
OCT 10...	E81	11.2	163	--	--	--	363	1.8	0.072	3.48	0.360	0.39	1.09
NOV 21...	105	36.0	352	732	1.08	23.4	794	0.98	0.053	12.7	1.88	1.99	1.89
DEC 12...	E107	36.8	356	--	--	--	797	1.3	0.093	11.4	2.13	2.14	2.49
JAN 16...	133	38.5	333	726	1.04	14.6	764	7.1	5.66	8.50	2.34	2.53	2.74
FEB 13...	140	45.0	345	748	1.04	18.1	763	8.5	6.51	7.00	2.34	2.51	2.82
MAR 27...	173	43.8	550	1,030	1.49	46.7	1,090	4.2	2.63	3.31	0.95	1.10	1.25
APR 17...	155	43.3	525	1,010	1.48	33.6	1,090	2.8	1.35	6.85	1.50	1.67	1.78
MAY 08...	142	44.6	502	947	1.44	45.6	1,060	2.2	0.818	7.34	1.22	1.48	1.61
MAY 22...	152	45.5	482	960	1.42	47.7	1,050	2.8	1.30	9.29	1.69	1.95	1.94
JUN 05...	34	7.20	63.5	143	0.22	61.5	163	0.51	0.024	1.22	0.220	0.24	0.28
JUN 19...	52	7.82	114	230	0.35	143	259	1.2	0.072	1.11	0.143	0.163	0.32
JUL 10...	67	11.3	222	404	0.61	87.3	449	0.50	0.045	2.27	0.365	0.42	0.42
JUL 24...	82	11.7	268	478	0.71	112	522	0.54	0.030	1.69	0.246	0.27	0.29
AUG 14...	85	11.3	203	396	0.59	94.3	437	0.81	0.015	1.88	0.271	0.27	0.34
SEP 11...	109	17.9	295	548	0.85	72.5	623	0.69	0.031	3.23	0.432	0.51	0.57

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
OCT 10...	1.3	1.5	E8	0.23	68.3	<0.02	2.21	<0.20
NOV 21...	0.6	3.8	57	0.54	68.5	<0.02	4.87	<0.20
DEC 12...	0.5	4.0	73	0.52	88.6	<0.02	6.04	M
JAN 16...	0.5	6.5	79	0.58	77.5	<0.02	5.04	M
FEB 13...	0.5	5.2	77	0.68	69.0	<0.02	4.49	M
MAR 27...	0.7	3.5	45	0.57	84.3	<0.02	3.50	<0.20
APR 17...	0.8	3.6	53	0.34	105	<0.02	5.59	<0.20
MAY 08...	0.9	3.4	45	0.32	56.8	<0.02	5.91	<0.20
MAY 22...	0.9	6.7	57	0.45	96.9	<0.02	2.91	<0.20
JUN 05...	0.3	1.9	66	E.06	20.3	<0.02	1.06	<0.20
JUN 19...	0.6	2.2	50	0.09	20.3	<0.02	1.57	<0.20
JUL 10...	0.5	3.0	38	0.15	36.6	<0.02	2.15	<0.20
JUL 24...	1.0	3.0	17	0.08	36.0	<0.02	2.71	<0.20
AUG 14...	1.0	2.0	16	0.12	19.8	<0.02	3.71	<0.20
SEP 11...	0.9	3.3	31	0.12	28.9	<0.02	1.32	<0.20

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

E -- Estimated laboratory analysis value.

M -- Presence of material verified but not quantified.

BIG THOMPSON PROJECT—Continued

06741520 BIG THOMPSON RIVER BELOW LOVELAND, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
OCT					
10...	<0.4	<0.4	<0.4	<0.4	<0.4
NOV					
21...	<0.4	<0.4	<0.4	<0.4	<0.4
DEC					
12...	<0.4	<0.4	M	<0.4	<0.4
JAN					
16...	<0.4	<0.4	<0.4	<0.4	<0.4
FEB					
13...	<0.4	<0.4	<0.4	<0.4	<0.4
MAR					
27...	<0.4	<0.4	<0.4	<0.4	<0.4
APR					
17...	<0.4	<0.4	<0.4	<0.4	<0.4
MAY					
08...	<0.4	<0.4	<0.4	<0.4	M
22...	<0.4	<0.4	<0.4	<0.4	M
JUN					
05...	<0.4	<0.4	<0.4	<0.4	<0.4
19...	<0.4	<0.4	<0.4	<0.4	<0.4
JUL					
10...	<0.4	<0.4	<0.4	<0.4	<0.4
24...	<0.4	<0.4	<0.4	<0.4	<0.4
AUG					
15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP					
11...	<0.4	<0.4	<0.4	<0.4	<0.4

< -- Actual value is known to be less than the value shown.
M -- Presence of material verified but not quantified.

PLATTE RIVER BASIN
BIG THOMPSON PROJECT

06741530 BIG THOMPSON RIVER AT I-25 NEAR LOVELAND, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°23'51", long 104°59'32", in NW¹/₄SW¹/₄ sec.15, T.5 N., R.68 W., Larimer County, Hydrologic Unit 10190006, at bridge on Big Thompson River on north bound lane of service road, east of Interstate Highway 25 (I-25), 1.5 mi downstream from Hillsboro Ditch, and 4.5 mi east of Loveland.

DRAINAGE AREA.--571mi².

PERIOD OF RECORD.--April 1987 to December 1992, and March 2001 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=06741530

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
OCT													
10...	1110	1.3	2.7	--	8.2	941	13.0	400	94.3	39.2	3.66	1	52.7
NOV													
21...	1035	7.8	1.5	11.1	8.1	1,130	8.0	410	93.6	42.2	7.30	2	81.3
DEC													
12...	1040	7.3	2.0	10.0	7.3	1,190	4.0	450	104	47.1	7.41	2	85.6
JAN													
16...	1035	6.8	1.8	8.7	8.1	1,190	2.5	470	108	48.5	8.81	2	88.1
FEB													
13...	1040	8.2	2.3	8.4	8.1	1,190	5.0	440	101	45.1	8.00	2	88.9
MAR													
27...	1220	21	7.8	12.0	8.4	1,650	8.0	660	142	74.0	6.59	2	135
APR													
17...	1005	12	4.2	10.0	8.4	1,480	11.0	580	126	63.9	7.70	2	114
MAY													
08...	1315	16	3.5	7.0	8.1	1,420	13.5	530	118	56.0	7.91	2	110
22...	1110	11	2.1	6.0	7.9	1,470	16.5	560	119	64.0	8.03	2	117
JUN													
05...	1115	91	11	8.8	8.1	305	12.5	110	25.3	11.4	1.61	0.7	17.8
19...	1100	172	79	7.6	8.0	470	15.5	160	37.6	16.8	3.66	1	29.6
JUL													
10...	1055	38	36	9.3	8.4	635	18.5	240	55.5	25.7	2.50	1	37.8
24...	0955	41	9.7	8.0	7.9	703	21.0	270	62.3	28.9	2.55	1	39.5
AUG													
14...	1030	30	10	7.6	8.1	651	21.0	280	66.6	28.1	2.89	0.9	36.4
SEP													
11...	0955	18	6.7	8.5	8.2	832	15.5	310	70.3	31.5	3.10	1	44.0

BIG THOMPSON PROJECT—Continued

06741530 BIG THOMPSON RIVER AT I-25 NEAR LOVELAND, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
OCT 10...	E127	16.4	322	--	--	--	664	0.50	0.023	5.28	0.641	0.73	0.70
NOV 21...	115	34.9	373	763	1.13	17.6	833	0.93	0.026	12.6	1.88	2.07	1.95
DEC 12...	E132	34.3	394	--	--	--	852	1.0	0.054	9.70	1.87	1.87	2.26
JAN 16...	151	35.7	395	821	1.19	16.1	874	5.0	3.65	8.13	2.11	2.31	2.50
FEB 13...	148	41.4	381	798	1.13	18.3	829	5.5	3.98	7.18	2.17	2.25	2.54
MAR 27...	199	42.1	636	1,180	1.75	71.6	1,290	3.8	2.50	3.63	0.95	1.10	1.14
APR 17...	161	42.5	533	1,020	1.50	36.9	1,100	2.5	1.20	7.32	1.69	1.84	1.96
MAY 08...	145	43.9	508	973	1.44	45.4	1,060	2.8	1.47	7.93	1.49	1.75	1.82
MAY 22...	163	43.8	529	1,020	1.51	34.0	1,110	2.8	1.46	7.70	1.46	1.73	1.70
JUN 05...	44	6.76	82.3	176	0.27	49.1	199	0.58	0.037	0.877	0.159	0.179	0.27
JUN 19...	62	8.21	145	283	0.43	148	319	1.5	0.093	0.944	0.125	0.149	0.34
JUL 10...	84	10.2	217	405	0.60	45.4	441	0.76	0.027	1.22	0.196	0.22	0.34
JUL 24...	90	11.4	243	448	0.66	54.0	487	0.52	0.024	1.26	0.194	0.21	0.25
AUG 14...	97	11.2	208	419	0.60	35.2	442	0.52	0.026	1.46	0.217	0.23	0.28
SEP 11...	123	16.6	276	532	0.81	29.5	596	0.58	0.031	3.41	0.411	0.49	0.55

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Arsenic water, fltrd, ug/L (01000)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
OCT 10...	1.0	3.3	27	0.18	29.1	<0.02	3.23	<0.2
NOV 21...	0.6	3.5	49	0.47	46.2	<0.02	4.85	<0.2
DEC 12...	0.7	4.0	57	0.49	65.4	<0.02	6.56	<0.2
JAN 16...	0.6	5.7	67	0.74	86.1	<0.02	5.64	E.1
FEB 13...	0.6	4.6	59	0.65	76.1	<0.02	4.83	<0.2
MAR 27...	0.9	3.6	37	0.51	106	<0.02	3.70	<0.2
APR 17...	0.8	3.4	52	0.29	112	<0.02	5.53	<0.2
MAY 08...	1.0	2.8	56	0.32	83.4	<0.02	5.54	<0.2
MAY 22...	1.0	6.7	49	0.33	90.6	<0.02	2.86	<0.2
JUN 05...	0.4	2.1	58	E.07	26.5	<0.02	0.78	<0.2
JUN 19...	0.7	2.1	47	0.14	25.6	<0.02	1.82	<0.2
JUL 10...	0.8	2.0	17	0.10	24.2	<0.02	2.34	<0.2
JUL 24...	1.1	2.9	16	E.05	25.6	<0.02	2.68	<0.2
AUG 14...	1.1	1.5	12	<0.08	24.0	<0.02	3.67	<0.2
SEP 11...	1.0	3.0	14	0.10	31.7	<0.02	1.06	<0.2

< -- Actual value is known to be less than the value shown.
 E -- Estimated laboratory analysis value.

PLATTE RIVER BASIN

BIG THOMPSON PROJECT—Continued

06741530 BIG THOMPSON RIVER AT I-25 NEAR LOVELAND, CO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Toluene water unfltrd ug/L (34010)
OCT					
10...	<0.4	<0.4	<0.4	<0.4	<0.4
NOV					
21...	<0.4	<0.4	<0.4	<0.4	<0.4
DEC					
12...	<0.4	<0.4	<0.4	<0.4	<0.4
JAN					
16...	<0.4	<0.4	<0.4	<0.4	<0.4
FEB					
13...	<0.4	<0.4	<0.4	<0.4	<0.4
MAR					
27...	<0.4	<0.4	<0.4	<0.4	<0.4
APR					
17...	<0.4	<0.4	<0.4	<0.4	<0.4
MAY					
08...	<0.4	<0.4	<0.4	<0.4	M
22...	<0.4	<0.4	<0.4	<0.4	M
JUN					
05...	<0.4	<0.4	<0.4	<0.4	<0.4
19...	<0.4	<0.4	<0.4	<0.4	<0.4
JUL					
10...	<0.4	<0.4	<0.4	<0.4	<0.4
24...	<0.4	<0.4	<0.4	<0.4	<0.4
AUG					
15...	<0.4	<0.4	<0.4	<0.4	<0.4
SEP					
11...	<0.4	<0.4	<0.4	<0.4	<0.4

< -- Actual value is known to be less than the value shown.
M -- Presence of material verified but not quantified.

PUEBLO COUNTY

382323104200701. SC01906221AAA Pueblo Drought Well

LOCATION.--Lat 38°23'23", long 104°20'09", in NE¹/₄NE¹/₄NE¹/₄ sec.21, T.19 S., R.62 W., Pueblo County, Hydrologic Unit 11020005, 0.1 mi east of DOT Road, 9.0 mi north of U.S. Highway 50, and 20 mi northeast of Pueblo.

AQUIFER.--Terrace deposits.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 90 ft.

INSTRUMENTATION.--Water-level recorder with satellite telemetry.

DATUM.--Elevation of land-surface datum is 4,843.25 ft above NAVD of 1988. Measuring point: top of 2.4 in. PVC pipe above well casing, 1.10 ft above land-surface datum.

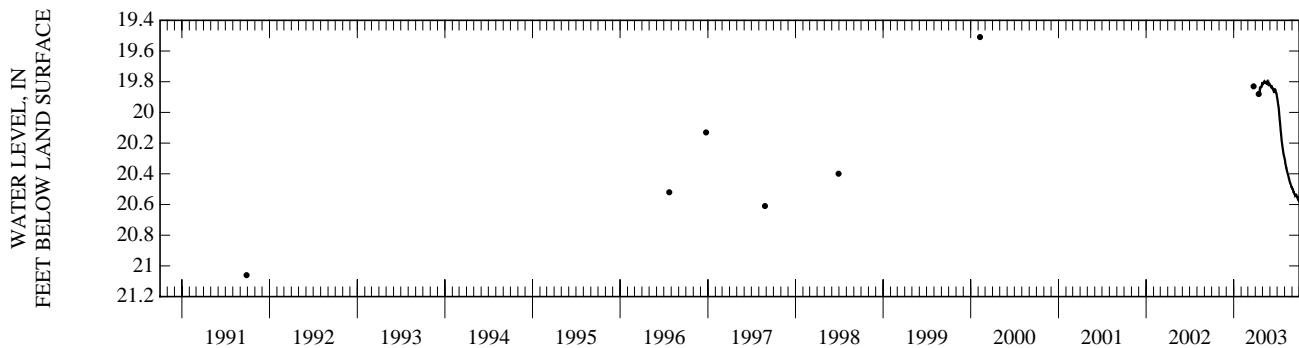
REMARKS.--Daily data that are not published are either missing or of unacceptable quality.

PERIOD OF RECORD.--Daily record from April to September 2003. Intermittent measurements made prior to April 2003 not previously published. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=382323104200701

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 19.77 ft below land-surface datum, May 5, 2003; lowest, 21.07 ft, Sep. 27, 1991, from manual measurement.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	19.82	19.82	19.91	20.31	20.50
2	---	---	---	---	---	---	---	19.81	19.82	19.92	20.31	20.50
3	---	---	---	---	---	---	---	19.81	19.83	19.93	20.33	20.50
4	---	---	---	---	---	---	---	19.81	19.83	19.95	20.34	20.50
5	---	---	---	---	---	---	---	19.80	19.83	19.95	20.34	20.51
6	---	---	---	---	---	---	---	19.80	19.83	19.96	20.35	20.52
7	---	---	---	---	---	---	---	19.81	19.83	19.98	20.36	20.52
8	---	---	---	---	---	---	---	19.80	19.83	20.00	20.36	20.52
9	---	---	---	---	---	---	---	19.80	19.84	20.02	20.37	20.53
10	---	---	---	---	---	---	---	19.81	19.84	20.03	20.38	20.53
11	---	---	---	---	---	---	---	19.81	19.84	20.05	20.39	20.53
12	---	---	---	---	---	---	---	19.80	19.85	20.06	20.39	20.53
13	---	---	---	---	---	---	---	19.81	19.85	20.08	20.40	20.54
14	---	---	---	---	---	---	19.88	19.81	19.85	20.10	20.40	20.54
15	---	---	---	---	---	---	19.87	19.80	19.86	20.12	20.41	20.54
16	---	---	---	---	---	---	19.88	19.81	19.86	20.13	20.41	20.54
17	---	---	---	---	---	---	19.87	19.81	19.87	20.15	20.42	20.54
18	---	---	---	---	---	---	19.87	19.80	19.87	20.17	20.43	20.54
19	---	---	---	---	---	---	19.85	19.81	19.86	20.19	20.43	20.54
20	---	---	---	---	---	---	19.85	19.81	19.85	20.20	20.44	20.55
21	---	---	---	---	---	---	19.85	19.81	19.85	20.21	20.45	20.55
22	---	---	---	---	---	---	19.84	19.81	19.85	20.22	20.45	20.55
23	---	---	---	---	---	---	19.83	19.81	19.85	20.23	20.46	20.55
24	---	---	---	---	---	---	19.83	19.81	19.86	20.24	20.46	20.56
25	---	---	---	---	---	---	19.84	19.81	19.87	20.25	20.47	20.56
26	---	---	---	---	---	---	19.83	19.81	19.87	20.26	20.47	20.56
27	---	---	---	---	---	---	19.83	19.82	19.87	20.27	20.48	20.56
28	---	---	---	---	---	---	19.82	19.82	19.88	20.28	20.48	20.57
29	---	---	---	---	---	---	19.82	19.82	19.90	20.28	20.49	20.57
30	---	---	---	---	---	---	19.82	19.82	19.90	20.29	20.49	20.59
31	---	---	---	---	---	---	---	19.82	---	20.30	20.49	---
MEAN	---	---	---	---	---	---	---	19.81	19.85	20.12	20.41	20.54
MAX	---	---	---	---	---	---	---	19.82	19.90	20.30	20.49	20.59
MIN	---	---	---	---	---	---	---	19.80	19.82	19.91	20.31	20.50



QUALITY OF GROUND WATER

EL PASO COUNTY

384056104415601 - SC01606505CCB - FOUNTAIN NO. 3

LOCATION.--Lat 38°40'56", long 104°41'56", in NW¹/₄SW¹/₄SW¹/₄ 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. (24 in. prior to 1989), 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. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384056104415601

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
MAR 03...	1115	7.2	999	13.5	E.008	2.00	<0.008	E.01
AUG 12...	1050	7.2	1,010	13.0	E.013	2.12	<0.008	E.02

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

E -- Estimated laboratory analysis value.

384108104420701 - SC01606506DAA - FOUNTAIN NO. 2

LOCATION.--Lat 38°41'08", long 104°42'07", in NE¹/₄NE¹/₄SE¹/₄ sec.6, T.16 S., R.65 W., El Paso County, Hydrologic Unit 11020003.

AQUIFER.--Fountain Creek Alluvial Aquifer.

WELL CHARACTERISTICS.--Municipal well, diameter 16 in. (24 in. prior to 1990), depth 57 ft, screened 42 to 57 ft.

DATUM.--Elevation of land-surface datum is 5,549.6 ft above sea level, from levels.

PERIOD OF RECORD.--March 1985 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384108104420701

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
MAR 03...	1145	7.3	1,160	12.5	E.014	1.15	<0.008	E.01
AUG 12...	1120	7.6	1,190	13.0	0.016	2.81	<0.008	0.02

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

E -- Estimated laboratory analysis value.

384323104432201 - SC01506625AAB - WIDEFIELD NO. 5

LOCATION.--Lat 38°43'23", long 104°43'22", in NW¹/₄NE¹/₄NE¹/₄ 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 16 in., depth 47 ft, screened 26.5 to 46.5 ft.

DATUM.--Elevation of land-surface datum is 5,640 ft above sea level, from topographic map.

PERIOD OF RECORD.--February 1999 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384323104432201

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
MAR 03...	1245	7.5	1,060	14.0	E.014	4.89	<0.008	0.04
AUG 12...	1400	7.4	1,160	13.5	0.023	6.50	<0.008	0.04

< -- Actual value is known to be less than the value shown.
E -- Estimated laboratory analysis value.

384345104241401 - SC01506324CBB - SWEET WATER NO. 1

LOCATION.--Lat 38°43'45", long 104°24'11", in NW¹/₄NW¹/₄SW¹/₄ sec.24, T.15 S., R.63 W., El Paso County, Hydrologic Unit 11020004.

AQUIFER.--Black Squirrel Alluvial Aquifer.

WELL CHARACTERISTICS.--Public-supply well, diameter 16 in., depth 152 ft, screened 112 to 152 ft.

DATUM.--Elevation of land-surface datum is 5,712 ft above sea level, from topographic map.

PERIOD OF RECORD.--February 1999 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384345104241401

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
MAR 04...	1040	7.6	314	13.5	<0.015	4.53	<0.008	0.06
AUG 11...	1415	7.4	316	13.5	<0.015	4.76	<0.008	<0.18

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

QUALITY OF GROUND WATER

EL PASO COUNTY—Continued

384407104434801 - SC01506624BAD1 - WIDEFIELD NO. 4

LOCATION.--Lat 38°44'07", long 104°43'48", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ 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 5,685 ft above sea level, from topographic map.

PERIOD OF RECORD.--February 1981 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384407104434801

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
MAR 03...	1330	7.3	560	13.5	<0.015	5.90	<0.008	E.01
AUG 12...	1430	7.1	559	13.5	<0.015	6.21	<0.008	0.02

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

E -- Estimated laboratory analysis value.

384433104440702 - SC01506613CBD2 - U-14

LOCATION.--Lat 38°44'33", long 104°44'07", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.13 (revised), 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 73 ft, screened 69 to 71 ft.

DATUM.--Elevation of land-surface datum is 5,701 ft above sea level, from levels.

PERIOD OF RECORD.--October 1992 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384433104440702

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
MAR 04...	1400	7.2	549	12.0	<0.015	6.46	<0.008	0.02
AUG 12...	1210	7.1	533	13.5	<0.015	7.22	<0.008	0.02

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

EL PASO COUNTY—Continued

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 5,715 ft above sea level, from topographic map.

PERIOD OF RECORD.--February 1981 to August 2001, August to September 2003. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384458104442601

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
AUG 12...	1510	7.1	490	13.0	<0.015	7.35	<0.008	E.02

< -- Actual value is known to be less than the value shown.
E -- Estimated laboratory analysis value.

384459104443401 - SC01506614ABD - SECURITY NO. 16

LOCATION.--Lat 38°44'59", long 104°44'34", in SE¹/₄NW¹/₄NE¹/₄ 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 76 ft, screening unknown.

DATUM.--Elevation of land-surface datum is 5,719.6 ft above sea level, from levels.

PERIOD OF RECORD.--May 2002 to March 2003 (discontinued). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384459104443401

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
MAR 03...	1500	7.2	512	13.5	<0.015	6.86	<0.008	E.02

< -- Actual value is known to be less than the value shown.
E -- Estimated laboratory analysis value.

QUALITY OF GROUND WATER

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 ft above sea level, from topographic map.

PERIOD OF RECORD.--February 1981 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384535104450801

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
MAR 04...	1315	7.2	517	12.0	<0.015	6.99	<0.008	0.06
AUG 12...	1620	7.2	534	13.0	E.008	6.50	<0.008	0.06

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

E -- Estimated laboratory analysis value.

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 5,773.8 ft above sea level, from levels.

PERIOD OF RECORD.--October 1992 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384604104451502

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
MAR 03...	1715	8.2	650	12.5	<0.015	7.82	<0.008	0.11
AUG 11...	1905	8.0	621	13.5	<0.015	8.08	<0.008	0.12

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

EL PASO COUNTY—Continued

384610104453501 - SC01506603DDB - SECURITY NO. 14

LOCATION.--Lat 38°46'10", long 104°45'35", in NW¼SE¼SE¼ 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, from levels.

PERIOD OF RECORD.--February 1981 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384610104453501

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
MAR 03...	1530	7.2	592	13.5	<0.015	7.70	<0.008	0.04
AUG 12...	1545	7.0	580	13.0	<0.015	8.11	<0.008	0.04

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

384617104455901 - SC01506603CAD - STRATMOOR HILLS NO. 4

LOCATION.--Lat 38°46'17", long 104°45'59", in SE¼NE¼SW¼ sec.3, T.15 S., R.66 W., El Paso County, Hydrologic Unit 11020003.

AQUIFER.--Widefield Aquifer of Fountain Creek Alluvium.

WELL CHARACTERISTICS.--Municipal well, diameter 12 in. (16 in. prior to 1998), depth 49 ft, screened 29 to 49 ft.

DATUM.--Elevation of land-surface datum is 5,775.4 ft above sea level, from levels.

PERIOD OF RECORD.--February 1981 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384617104455901

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
MAR 03...	1615	7.5	680	13.5	E.010	6.72	<0.008	E.02
AUG 11...	1555	7.3	998	13.5	0.026	6.25	<0.008	0.02

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

E -- Estimated laboratory analysis value.

QUALITY OF GROUND WATER

EL PASO COUNTY—Continued

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. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384639104461401

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
MAR 04...	1455	7.2	1,260	12.0	0.018	3.73	E.004	0.02
AUG 11...	1700	7.2	1,240	13.5	0.018	5.62	<0.008	0.02

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

E -- Estimated laboratory analysis value.

384653104451901 - SC01506602BBB - 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 5,889.6 ft above sea level, from levels.

PERIOD OF RECORD.--August 1991 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384653104451901

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
MAR 07...	1040	7.2	461	13.0	<0.015	8.69	<0.008	0.08
AUG 11...	1205	7.0	458	13.5	<0.015	8.15	<0.008	<0.18

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

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. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384718104463701

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
MAR 04...	1530	7.2	1,310	12.5	0.038	8.65	<0.008	E.01
AUG 11...	1735	7.0	1,220	14.0	0.033	7.26	<0.008	0.02

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

E -- Estimated laboratory analysis value.