07079300 EAST FORK ARKANSAS RIVER AT HIGHWAY 24 NEAR LEADVILLE, CO

LOCATION.--Lat 39°16'21", long 106°18'21", in NW¼NW¼ sec.14, T.9 S., R.80 W., Lake County, Hydrologic Unit 11020001, on right bank 20 ft downstream from U.S. Highway 24, 0.4 mi downstream from Leadville Mine Drainage Tunnel, 1.5 mi northwest of Leadville, and 2.2 mi upstream from Tennessee Creek.

DRAINAGE AREA.--49.9 mi^2.

PERIOD OF RECORD.--May 1990 to current year. Daily record for water temperature, specific conductance, and pH available, May 1990 to September 1996. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07079300

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,900 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions (see elsewhere in this report). 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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	e10	e9.2	e8.7	e7.0	9.0	15	314	83	28	29
2	14	12	e10	e9.0	e8.6	e6.9	9.0	13	315	81	27	26
3	15	11	e10	e8.8	e9.0	e6.8	8.8	14	292	78	28	25
4	15	11	e10	e8.7	e9.0	e6.7	8.7	15	248	73	34	25
5	14	11	e10	e8.7	e9.5	e6.6	8.6	15	219	69	29	24
6	14	e11	e10	e8.7	e9.3	e6.5	8.7	15	168	66	27	29
7	13	e11	e9.9	e8.6	e9.1	e6.6	8.9	15	155	60	27	37
8	13	e11	e9.8	e8.5	e9.0	e6.5	9.4	15	145	57	26	37
9	13	e11	e9.8	e8.4	e9.0	e6.6	9.4	15	150	55	26	38
10	12	e11	e9.7	e8.4	e8.9	e6.7	11	15	146	50	25	41
11	12	e11	e9.6	e8.3	e8.8	e6.9	12	14	162	48	25	39
12	12	e11	e9.5	e8.3	e8.6	e7.2	12	14	167	45	26	35
13	11	e11	e9.5	e8.4	e8.4	e7.4	13	18	170	44	24	33
14	11	e11	e9.5	e8.5	e7.9	e7.3	13	21	158	43	24	31
15	11	e11	e9.4	e8.5	e7.9	e7.3	12	30	156	42	23	29
16	11	e11	e9.3	e8.6	e7.7	7.3	11	35	154	42	23	28
17	11	e11	e9.3	e8.7	e7.6	7.7	12	53	140	42	25	26
18	11	e11	e9.3	e8.7	e7.4	7.8	11	65	137	41	27	26
19	11	e11	e9.3	e8.6	e7.4	7.5	11	66	130	41	26	25
20	11	e11	e9.3	e8.6	e7.4	e7.8	11	66	126	40	23	25
21	11	e11	e9.3	e8.5	e7.5	e8.0	11	75	118	39	22	23
22	11	e11	e9.3	e8.5	e7.4	7.8	12	105	107	36	21	23
23	12	e11	e9.3	e8.4	e7.4	7.9	12	144	106	34	23	23
24	12	e11	e9.3	e8.4	e7.4	7.9	12	187	103	33	26	22
25	12	e11	e9.2	e8.5	e7.1	8.2	14	249	101	32	27	21
26	12	e11	e9.2	e8.6	e7.3	8.1	15	241	88	33	29	21
27	12	e11	e9.2	e8.7	e7.2	8.3	15	325	89	34	26	21
28	12	e11	e9.2	e8.8	e7.1	e8.4	14	460	89	38	25	21
29	11	e10	e9.2	e8.8	---	e8.5	14	459	89	35	23	20
30	11	e10	e9.2	e8.7	---	e8.6	15	209	84	32	27	20
31	12	---	e9.2	e8.7	---	e8.7	---	236	---	29	33	---
TOTAL	376	330	294.8	266.8	227.6	231.5	343.5	3,219	4,626	1,475	805	823
MEAN	12.1	11.0	9.51	8.61	8.13	7.47	11.4	104	154	47.6	26.0	27.4
MAX	15	12	10	9.2	9.5	8.7	15	460	315	83	34	41
MIN	11	10	9.2	8.3	7.1	6.5	8.6	13	84	29	21	20
AC-FT	746	655	585	529	451	459	681	6,380	9,180	2,930	1,600	1,630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2003, BY WATER YEAR (WY)

MEAN	18.5	14.4	12.0	10.3	9.91	10.1	13.8	95.1	206	88.0	38.5	24.4
MAX	23.4	18.1	15.4	13.0	13.3	13.0	19.8	205	404	266	75.1	32.2
(WY)	(2000)	(1996)	(1996)	(1996)	(1997)	(1997)	(1996)	(1996)	(1996)	(1995)	(1995)	(1995)
MIN	12.1	10.8	9.51	8.61	7.10	7.47	10.5	38.4	39.0	14.7	10.8	10.9
(WY)	(2003)	(1992)	(2003)	(2003)	(1993)	(2003)	(1993)	(1995)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1990 - 2003	
ANNUAL TOTAL	5,828.9		13,018.2			
ANNUAL MEAN	16.0		35.7		45.7	
HIGHEST ANNUAL MEAN					73.0	1996
LOWEST ANNUAL MEAN					16.8	2002
HIGHEST DAILY MEAN	69	May 21	460	May 28	811	Jun 8, 1997
LOWEST DAILY MEAN	e7.3	Mar 6	e6.5	Mar 6	6.0	Dec 9, 1994
ANNUAL SEVEN-DAY MINIMUM	e7.5	Mar 1	e6.6	Mar 4	e6.6	Mar 4, 2003
MAXIMUM PEAK FLOW			760	May 29	a1,010	Jun 8, 1997
MAXIMUM PEAK STAGE			4.07	May 29	b4.23	Jun 8, 1997
ANNUAL RUNOFF (AC-FT)	11,560		25,820		33,090	
10 PERCENT EXCEEDS	36		89		124	
50 PERCENT EXCEEDS	11		12		16	
90 PERCENT EXCEEDS	8.8		7.9		9.3	

e Estimated.
a From rating curve extended above 517 ft^3/s.
b Maximum gage height, 4.41 ft, Jun 26, 1999.

07081200 ARKANSAS RIVER NEAR LEADVILLE, CO

LOCATION.--Lat 39°15'26", long 106°20'35", in NW¼NW¼ sec.21, T.9 S., R.80 W., Lake County, Hydrologic Unit 11020001, on right bank 500 ft downstream from confluence of East Fork Arkansas River and Tennessee Creek, 0.5 mi downstream from highway bridge, and 2.8 mi northwest of Leadville.

DRAINAGE AREA.--98.8 mi^2.

PERIOD OF RECORD.--October 1967 to September 1983, April 1990 to current year. Daily record of water temperature, specific conductance, and pH available, May 1990 to September 1996. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07081200

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

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,730 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions (see elsewhere in this report) and diversions for irrigation and municipal use. Several measurements of water temperature and specific conductance were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	18	e16	e13	e12	e13	15	57	723	136	40	35
2	24	18	e16	e14	e12	e12	16	53	579	126	37	30
3	28	17	e15	e14	e12	e12	15	51	464	122	36	29
4	28	16	e16	e14	e12	e12	14	55	404	116	41	30
5	25	16	e16	e14	e13	e12	13	48	370	109	37	29
6	24	15	e16	e14	e13	e12	13	41	309	102	36	37
7	24	15	e15	e14	e12	13	13	39	283	96	36	45
8	22	16	e15	e13	e12	12	24	40	250	91	37	46
9	21	16	e15	e13	e12	12	15	40	250	87	36	47
10	20	17	e14	e13	e12	12	19	39	277	81	35	52
11	20	17	e14	e13	e12	12	22	35	283	76	33	51
12	19	e17	e14	e13	e12	13	24	38	268	73	33	46
13	19	e17	e15	e13	e12	13	26	55	300	70	31	41
14	18	e17	e15	e13	e12	13	29	64	252	68	31	39
15	20	e16	e15	e13	e12	13	27	86	248	65	28	36
16	19	e16	e15	e13	e12	13	27	96	251	64	28	34
17	18	e17	e15	e12	e12	13	31	136	224	64	37	32
18	18	e17	e14	e12	e12	13	31	163	223	61	41	31
19	18	e16	e14	e12	e12	13	29	180	225	61	37	30
20	17	e16	e14	e12	e12	e13	28	164	229	59	31	30
21	17	e16	e14	e12	e12	13	29	164	205	60	28	28
22	17	e17	e14	e11	e13	13	33	206	192	54	28	28
23	19	e16	e14	e12	e13	14	33	265	183	51	33	27
24	18	e17	e13	e12	e12	14	29	312	173	48	38	25
25	17	e17	e13	e12	e12	14	32	354	163	47	42	25
26	17	e17	e13	e12	e12	13	42	337	150	51	43	24
27	19	e17	e13	e12	e12	e14	55	376	149	59	35	24
28	19	e17	e13	e12	e13	e14	63	536	146	56	33	24
29	18	e17	e13	e12	---	e14	70	634	145	50	31	23
30	17	e17	e13	e12	---	e15	70	751	143	48	33	23
31	18	---	e13	e12	---	e15	---	622	---	43	40	---
TOTAL	620	498	445	393	341	404	887	6,037	8,061	2,294	1,085	1,001
MEAN	20.0	16.6	14.4	12.7	12.2	13.0	29.6	195	269	74.0	35.0	33.4
MAX	28	18	16	14	13	15	70	751	723	136	43	52
MIN	17	15	13	11	12	12	13	35	143	43	28	23
AC-FT	1,230	988	883	780	676	801	1,760	11,970	15,990	4,550	2,150	1,990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2003, BY WATER YEAR (WY)

MEAN	26.6	21.2	16.6	14.7	14.4	15.2	30.8	169	336	132	59.2	34.3
MAX	38.3	28.9	21.7	19.0	20.5	20.8	52.9	412	707	382	138	55.8
(WY)	(1971)	(1971)	(1983)	(1996)	(1973)	(1971)	(1989)	(1996)	(1997)	(1995)	(1997)	(1982)
MIN	16.5	11.6	11.6	9.15	7.93	8.82	12.7	55.3	72.7	23.8	12.4	14.8
(WY)	(1978)	(1977)	(1978)	(1977)	(1978)	(1974)	(1970)	(1981)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1968 - 2003	
ANNUAL TOTAL	10,432.7		22,066			
ANNUAL MEAN	28.6		60.5		73.3	
HIGHEST ANNUAL MEAN					120	1997
LOWEST ANNUAL MEAN					29.5	2002
HIGHEST DAILY MEAN	128	Jun 1	751	May 30	1,120	Jun 8, 1997
LOWEST DAILY MEAN	8.8	Sep 5	11	Jan 22	a7.0	Feb 3, 1978
ANNUAL SEVEN-DAY MINIMUM	9.1	Sep 2	12	Jan 17	7.0	Feb 3, 1978
MAXIMUM PEAK FLOW			955	May 30	b1,360	Jun 9, 1997
MAXIMUM PEAK STAGE			4.04	May 30	c4.38	Jun 9, 1997
ANNUAL RUNOFF (AC-FT)	20,690		43,770		53,110	
10 PERCENT EXCEEDS	71		164		203	
50 PERCENT EXCEEDS	17		21		25	
90 PERCENT EXCEEDS	13		12		13	

e Estimated.
a Also occurred Feb 4-20, 1978.
b From rating curve extended above 964 ft^3/s.
c Maximum gage height, 4.47 ft, Jun 15, 1978.

391504106225200 DINERO MINE DRAINAGE TUNNEL BELOW TURQUOISE LAKE NEAR LEADVILLE, CO

LOCATION.--Lat 39°15'04", long 106°22'52", in NW¼SW¼ sec.19, T.9 S., R.80 W., Lake County, Hydrologic Unit 11020001, on left bank 8 ft downstream from mine drainage tunnel, 0.5 mi southwest of Sugarloaf Dam, and 4.5 mi west of Leadville.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March to September 2003 (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=391504106225200

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 9,800 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Flow consists entirely of discharge from the Dinero Mine Drainage Tunnel.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 0.24 ft^3/s, Aug. 2, 3, gage height, 10.39 ft; minimum daily, 0.11 ft^3/s, on many days in April.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	e0.12	0.13	0.12	0.16	0.17	0.21	0.18
2	---	---	---	---	---	e0.12	0.13	0.12	0.16	0.17	0.22	0.18
3	---	---	---	---	---	e0.12	0.12	0.13	0.15	0.16	0.22	0.17
4	---	---	---	---	---	e0.12	0.12	0.13	0.14	0.16	0.21	0.17
5	---	---	---	---	---	e0.12	0.12	0.12	0.14	0.16	0.21	0.17
6	---	---	---	---	---	e0.12	0.12	0.12	0.15	0.16	0.21	0.16
7	---	---	---	---	---	e0.12	0.11	0.13	0.15	0.16	0.21	0.16
8	---	---	---	---	---	e0.12	0.11	0.13	0.15	0.15	0.21	0.17
9	---	---	---	---	---	e0.12	0.12	0.13	0.15	0.15	0.21	0.17
10	---	---	---	---	---	e0.12	0.12	0.13	0.16	0.16	0.21	0.17
11	---	---	---	---	---	e0.12	0.12	0.12	0.16	0.16	0.21	0.16
12	---	---	---	---	---	e0.12	0.12	0.13	0.16	0.17	0.20	0.17
13	---	---	---	---	---	e0.12	0.12	0.13	0.16	0.17	0.19	0.17
14	---	---	---	---	---	0.13	0.12	0.13	0.15	0.17	0.19	0.17
15	---	---	---	---	---	0.13	0.12	e0.13	0.14	0.17	0.19	0.16
16	---	---	---	---	---	0.13	0.11	e0.12	0.14	0.18	0.18	0.17
17	---	---	---	---	---	0.13	0.12	0.12	0.14	0.17	0.17	0.16
18	---	---	---	---	---	0.13	0.12	0.12	0.14	0.18	0.17	0.16
19	---	---	---	---	---	0.12	0.11	0.12	e0.16	0.20	0.17	0.16
20	---	---	---	---	---	0.12	0.11	0.12	0.17	0.19	0.17	0.16
21	---	---	---	---	---	0.12	0.12	0.12	0.17	0.19	0.18	0.17
22	---	---	---	---	---	0.12	0.12	0.12	0.17	0.19	0.18	0.17
23	---	---	---	---	---	0.13	0.12	0.13	0.17	0.19	0.18	0.17
24	---	---	---	---	---	0.13	0.12	0.13	0.17	0.19	0.18	0.17
25	---	---	---	---	---	0.12	0.12	0.13	0.17	0.19	0.18	0.17
26	---	---	---	---	---	0.13	0.12	0.13	0.17	0.19	0.18	0.17
27	---	---	---	---	---	0.13	0.11	0.13	0.17	0.19	0.19	0.17
28	---	---	---	---	---	0.12	0.12	0.13	0.17	0.18	0.17	0.17
29	---	---	---	---	---	0.12	0.12	0.14	0.17	0.19	0.17	0.17
30	---	---	---	---	---	0.12	0.12	0.14	0.18	0.20	0.17	0.17
31	---	---	---	---	---	0.13	---	0.15	---	0.21	0.17	---
TOTAL	---	---	---	---	---	3.82	3.56	3.95	4.74	5.47	5.91	5.04
MEAN	---	---	---	---	---	0.12	0.12	0.13	0.16	0.18	0.19	0.17
MAX	---	---	---	---	---	0.13	0.13	0.15	0.18	0.21	0.22	0.18
MIN	---	---	---	---	---	0.12	0.11	0.12	0.14	0.15	0.17	0.16
AC-FT	---	---	---	---	---	7.6	7.1	7.8	9.4	11	12	10

e Estimated.

07083000 HALFMOON CREEK NEAR MALTA, CO
(Hydrologic Benchmark station)

LOCATION.--Lat 39°10'20", long 106°23'19", in SE¼SE¼ sec.13, T.10 S., R.81 W., Lake County, Hydrologic Unit 11020001, on San Isabel National Forest, on right bank 1.4 mi upstream from culvert on Halfmoon Campground road, 3.3 mi upstream from mouth, and 4.3 mi southwest of Malta.

DRAINAGE AREA.--23.6 mi^2.

PERIOD OF RECORD.--August 1946 to current year. Meteorological data available, May 1994 to September 1995. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07083000

REVISED RECORDS.--WSP 2121: Drainage area at site 1.4 mi downstream. WRD Colo. 1968: 1967 (M). WDR CO-79-1: 1976 (M). WDR CO-80-1: 1954 (M).

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Concrete control since 1966. Elevation of gage is 9,830 ft above NGVD of 1929, from topographic map. Prior to Oct. 19, 1966, at sites 1.4 mi downstream at different datums.

REMARKS.--Records good except for estimated daily discharges, which are poor. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplementary Water-Quality Data for Gaging Stations section of this report.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	6.7	e3.5	e3.2	e3.3	e2.6	e2.4	10	188	85	35	19
2	10	7.0	e3.5	e3.2	e3.2	e2.6	e2.4	9.4	142	85	29	17
3	12	e7.2	e3.5	e3.4	e3.1	e2.6	2.5	9.1	153	83	29	18
4	10	e7.3	e3.5	e3.4	e3.1	e2.6	2.3	9.4	129	83	27	18
5	10	e7.5	e3.5	e3.4	e3.0	e2.5	2.3	8.6	103	76	25	18
6	9.7	e7.5	e3.5	e3.4	e3.0	e2.5	2.3	7.9	81	72	24	26
7	9.7	e7.5	e3.5	e3.4	e3.0	e2.5	2.3	7.6	73	69	23	34
8	9.7	e7.5	e3.5	e3.4	e3.0	e2.5	2.4	7.4	69	67	22	33
9	9.3	e7.5	e3.5	e3.4	e3.0	e2.5	2.7	7.4	84	66	20	41
10	9.0	e7.0	e3.4	e3.4	e3.0	e2.5	3.6	7.1	113	62	20	43
11	8.7	e6.5	e3.4	e3.4	e3.0	e2.4	4.5	6.8	139	59	19	37
12	8.3	e6.5	e3.4	e3.4	e3.0	e2.4	5.0	8.3	150	57	19	37
13	8.1	e6.0	e3.5	e3.4	e2.9	e2.4	5.7	13	151	53	18	37
14	7.8	e6.0	e3.5	e3.4	e2.9	e2.4	7.1	17	130	49	17	33
15	7.4	e5.5	e3.5	e3.3	e2.9	e2.4	6.9	27	139	44	16	30
16	7.4	e6.0	e3.4	e3.2	e2.9	e2.4	6.6	29	136	42	17	29
17	7.3	e5.5	e3.3	e3.3	e2.9	e2.3	6.3	48	120	40	20	27
18	7.1	e5.0	e3.2	e3.3	e2.8	e2.3	6.1	54	130	39	23	25
19	7.0	e5.0	e3.0	e3.4	e2.8	e2.3	5.7	46	126	38	24	24
20	7.2	e4.5	e3.2	e3.4	e2.8	e2.3	5.9	49	120	38	20	22
21	7.4	e4.0	e3.4	e3.4	e2.8	e2.4	6.0	59	111	37	18	21
22	7.1	e4.5	e3.2	e3.4	e2.8	e2.4	6.1	79	115	36	18	19
23	7.6	e4.5	e3.2	e3.4	e2.7	e2.4	5.6	105	110	35	18	18
24	6.9	e4.0	e3.2	e3.4	e2.7	e2.3	5.6	125	105	31	19	17
25	7.1	e3.5	e3.2	e3.4	e2.7	e2.3	6.7	147	92	30	22	16
26	7.0	e3.5	e3.0	e3.4	e2.7	e2.3	7.6	144	93	31	21	16
27	7.1	e4.0	e3.2	e3.4	e2.7	e2.3	8.4	168	94	31	20	15
28	6.8	e4.0	e3.2	e3.4	e2.6	e2.3	8.9	191	92	33	24	14
29	6.2	e3.5	e3.2	e3.4	---	e2.3	10	210	94	30	20	14
30	7.0	e3.5	e3.2	e3.4	---	e2.4	11	206	89	27	22	13
31	6.9	---	e3.2	e3.4	---	e2.4	---	185	---	28	21	---
TOTAL	252.4	168.2	103.5	104.5	81.3	74.8	160.9	2,001.0	3,471	1,556	670	731
MEAN	8.14	5.61	3.34	3.37	2.90	2.41	5.36	64.5	116	50.2	21.6	24.4
MAX	12	7.5	3.5	3.4	3.3	2.6	11	210	188	85	35	43
MIN	6.2	3.5	3.0	3.2	2.6	2.3	2.3	6.8	69	27	16	13
AC-FT	501	334	205	207	161	148	319	3,970	6,880	3,090	1,330	1,450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2003, BY WATER YEAR (WY)

MEAN	11.2	7.60	5.12	4.11	3.76	3.75	6.81	45.8	129	82.7	34.9	18.0
MAX	24.5	16.6	9.65	9.03	7.90	10.8	13.8	79.1	208	247	128	44.3
(WY)	(1962)	(1962)	(1996)	(1996)	(1986)	(1947)	(1989)	(1996)	(1980)	(1995)	(1995)	(1961)
MIN	6.23	4.40	3.19	1.65	1.70	1.20	2.70	17.7	41.4	12.7	7.11	8.03
(WY)	(1956)	(1992)	(1993)	(1977)	(1948)	(1948)	(1973)	(1995)	(2002)	(2002)	(2002)	(1974)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1946 - 2003	
ANNUAL TOTAL	4,300.3		9,374.6			
ANNUAL MEAN	11.8		25.7		29.5	
HIGHEST ANNUAL MEAN					55.3	1995
LOWEST ANNUAL MEAN					12.2	2002
HIGHEST DAILY MEAN	85	May 31	210	May 29	410	Jul 12, 1995
LOWEST DAILY MEAN	e3.0	Dec 19	e2.3	Mar 17	a1.1	Apr 1, 1948
ANNUAL SEVEN-DAY MINIMUM	e3.2	Dec 22	e2.3	Mar 23	1.2	Mar 27, 1948
MAXIMUM PEAK FLOW			286	May 29	b615	Jun 30, 1984
MAXIMUM PEAK STAGE			3.18	May 29	c3.77	Jun 30, 1984
ANNUAL RUNOFF (AC-FT)	8,530		18,590		21,340	
10 PERCENT EXCEEDS	29		85		88	
50 PERCENT EXCEEDS	7.0		7.2		9.0	
90 PERCENT EXCEEDS	4.0		2.6		3.2	

e Estimated.
a Also occurred Apr 2, 1948.
b From rating curve extended above 254 ft^3/s.
c Maximum gage height for period of record, 4.32 ft, Apr 24, 1965, backwater from ice.

07086000 ARKANSAS RIVER AT GRANITE, CO

LOCATION.--Lat 39°02'34", long 106°15'55", in SE¼SW¼ sec.31, T.11 S., R.79 W., Chaffee County, Hydrologic Unit 11020001, on right bank at Granite, 100 ft east of U.S. Highway 24, 100 ft downstream from county bridge, and 200 ft upstream from Cache Creek.

DRAINAGE AREA.--427 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April to October 1895, May to December 1897, August to September 1898, March to October 1899, April to May 1901 (gage heights and discharge measurements only in 1895, 1899, and 1901), April 1910 to current year. Monthly discharge only for some periods, published in WSP 1311. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07086000

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1711: 1952, 1956(M).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,914.86 ft above NGVD of 1929, supplementary adjustment of 1960. Prior to Apr. 6, 1910, nonrecording gages near present site at different datums. Apr. 6, 1910 to Oct. 25, 1917, water-stage recorder or nonrecording gage at site 832 ft upstream at different datum. Oct. 26, 1917 to Oct. 26, 1960, water-stage recorder at site 168 ft downstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transmountain diversions from Colorado River Basin (see elsewhere in this report), diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. Flow partly regulated by Turquoise Lake and Twin Lakes Reservoir, on tributaries upstream from station, combined capacity, about 269,700 acre-ft.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	116	e67	e69	e57	e48	106	201	2,150	544	431	152
2	90	114	e68	e70	e58	e45	157	210	2,080	511	415	141
3	108	107	e66	e80	e52	e42	180	207	1,770	478	408	139
4	109	107	e64	e90	e48	e43	167	210	1,350	461	299	137
5	100	110	e60	e90	e45	e46	160	214	1,160	454	169	130
6	91	106	e60	e80	e45	e47	157	217	1,100	445	171	151
7	90	103	e58	e50	e42	e48	161	213	943	478	169	175
8	90	107	e60	e53	e40	e47	165	214	797	496	260	177
9	88	114	e59	e56	e41	e47	165	215	787	490	519	182
10	89	104	e58	e53	e42	e47	183	216	902	486	518	205
11	102	111	e57	e53	e48	e60	206	209	1,060	476	445	234
12	102	e109	e58	e50	e50	e80	211	203	1,200	464	340	240
13	95	e105	e59	e51	e60	e82	206	220	1,380	457	232	231
14	97	e99	e60	e52	e68	e78	220	249	1,350	455	191	227
15	99	e90	e62	e55	e58	e69	205	300	1,320	454	146	183
16	102	e85	e60	e53	e45	67	169	290	1,280	453	138	105
17	103	e92	e61	e53	e50	66	179	289	1,110	465	149	121
18	103	e82	e59	e52	e51	e66	178	423	983	484	162	208
19	102	e80	e60	e55	e50	e60	171	633	924	483	171	209
20	97	e82	e66	e58	e49	e60	167	615	1,080	482	155	206
21	96	e79	e70	e59	e51	77	180	512	1,040	487	142	204
22	99	e76	e70	e60	e53	e69	223	536	1,080	476	137	191
23	109	e72	e69	e62	e50	79	213	632	997	471	146	154
24	114	e73	e70	e60	e49	86	205	769	715	488	158	120
25	108	e71	e69	e58	e50	88	219	782	580	493	170	98
26	105	e67	e70	e56	e49	e82	226	885	533	510	166	89
27	107	e67	e70	e58	e49	e80	233	1,100	476	528	158	87
28	105	e68	e73	e58	e49	e75	241	1,270	451	491	157	83
29	107	e68	e78	e53	---	e77	225	1,530	447	407	148	84
30	102	e69	e74	e58	---	e76	205	1,930	508	420	152	85
31	115	---	e67	e60	---	e82	---	2,070	---	432	164	---
TOTAL	3,108	2,733	2,002	1,865	1,399	2,019	5,683	17,564	31,553	14,719	7,186	4,748
MEAN	100	91.1	64.6	60.2	50.0	65.1	189	567	1,052	475	232	158
MAX	115	116	78	90	68	88	241	2,070	2,150	544	519	240
MIN	84	67	57	50	40	42	106	201	447	407	137	83
AC-FT	6,160	5,420	3,970	3,700	2,770	4,000	11,270	34,840	62,590	29,200	14,250	9,420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2003, BY WATER YEAR (WY)

MEAN	155	129	110	108	113	129	237	693	1,268	887	528	241
MAX	356	337	448	419	526	500	667	1,711	2,146	2,367	1,239	546
(WY)	(1977)	(1983)	(1983)	(1983)	(1985)	(1985)	(1962)	(1984)	(1984)	(1983)	(1984)	(1961)
MIN	82.4	64.3	48.5	39.8	45.0	55.0	97.1	191	262	150	151	93.8
(WY)	(1932)	(1945)	(1977)	(1918)	(1919)	(1919)	(1933)	(1935)	(2002)	(2002)	(1934)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1910 - 2003	
ANNUAL TOTAL	52,644		94,579			
ANNUAL MEAN	144		259		385	
HIGHEST ANNUAL MEAN					687	1984
LOWEST ANNUAL MEAN					157	2002
HIGHEST DAILY MEAN	393	May 23	2,150	Jun 1	4,990	Jun 30, 1957
LOWEST DAILY MEAN	e57	Dec 11	e40	Feb 8	11	Mar 15, 1918
ANNUAL SEVEN-DAY MINIMUM	e58	Dec 7	e43	Feb 4	31	Jan 10, 1918
MAXIMUM PEAK FLOW			2,220	Jun 1	5,360	Jun 28, 1957
MAXIMUM PEAK STAGE			5.26	Jun 1	7.20	Jun 28, 1957
ANNUAL RUNOFF (AC-FT)	104,400		187,600		278,700	
10 PERCENT EXCEEDS	222		558		1,040	
50 PERCENT EXCEEDS	141		109		170	
90 PERCENT EXCEEDS	72		52		74	

e Estimated.

07086000 ARKANSAS RIVER AT GRANITE, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1967 to June 1969, October 1993 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07086000

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1993 to current year.
WATER TEMPERATURE: October 1993 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Daily specific-conductance records are fair. Daily water-temperature records are good. Daily data that are not published are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 288 microsiemens/cm, May 25, 2003; minimum, 63 microsiemens/cm, June 10, 2000.
WATER TEMPERATURE: Maximum, 21.8°C, July 31, 2002; minimum, 0.0°C, on many days.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 288 microsiemens/cm, May 25; minimum, 74 microsiemens/cm, June 1, 16.
WATER TEMPERATURE: Maximum, 19.9°C, Aug. 20; minimum 0.0°C, on many days.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	169	164	167	153	148	151	177	165	170	---	---	---
2	172	166	169	153	148	151	177	167	171	---	---	---
3	170	159	165	158	147	152	176	165	169	---	---	---
4	168	162	165	161	146	154	181	165	173	---	---	---
5	168	161	164	161	152	155	174	162	170	---	---	---
6	169	163	166	159	143	152	179	161	170	---	---	---
7	170	163	166	159	143	152	188	162	171	---	---	---
8	173	165	168	161	153	157	191	167	176	---	---	---
9	178	171	174	157	146	150	193	168	181	173	158	167
10	177	152	170	---	---	---	189	160	178	171	161	166
11	156	150	153	---	---	---	179	158	167	168	161	165
12	155	149	153	---	---	---	175	165	169	167	161	165
13	155	148	151	159	143	150	184	166	174	177	149	165
14	155	150	153	162	147	153	208	169	186	170	159	165
15	161	152	155	157	149	153	200	176	184	170	161	166
16	162	155	158	166	149	156	210	165	185	181	153	168
17	162	150	155	175	146	157	186	174	181	171	161	166
18	154	147	150	171	156	163	---	---	---	186	156	168
19	154	147	151	179	155	166	---	---	---	171	157	167
20	155	149	152	177	157	166	---	---	---	173	160	167
21	155	148	152	175	158	166	---	---	---	171	159	165
22	155	148	151	175	159	168	---	---	---	168	161	165
23	153	146	150	178	163	170	---	---	---	165	157	162
24	158	151	154	173	168	171	---	---	---	166	157	163
25	155	149	152	177	166	171	---	---	---	164	158	162
26	154	147	150	181	164	173	---	---	---	173	144	161
27	157	151	153	185	163	174	---	---	---	166	157	162
28	157	152	155	179	162	171	---	---	---	165	157	162
29	156	148	151	174	162	168	---	---	---	169	150	162
30	154	146	149	178	154	166	---	---	---	171	154	164
31	154	149	151	---	---	---	---	---	---	168	161	165
MONTH	178	146	157	---	---	---	---	---	---	---	---	---

07086000 ARKANSAS RIVER AT GRANITE, CO—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	167	159	164	167	155	160	128	122	125	137	126	132
2	168	158	165	173	157	165	122	113	116	129	123	125
3	168	163	166	174	151	164	116	105	111	128	125	127
4	171	161	166	170	150	163	115	108	111	130	126	128
5	172	160	166	176	154	166	113	106	110	132	120	126
6	168	157	161	173	155	167	113	111	112	122	118	120
7	172	148	164	170	158	167	112	108	110	120	117	119
8	173	149	164	170	165	168	117	98	107	122	119	120
9	174	164	171	174	165	170	118	104	111	121	119	120
10	173	151	166	177	165	171	119	108	111	122	118	120
11	170	152	164	179	170	174	115	107	110	119	116	118
12	171	163	168	181	170	174	115	109	112	121	116	118
13	170	163	166	183	169	175	122	113	117	125	116	119
14	168	159	162	177	168	173	125	119	121	126	112	119
15	166	158	162	180	170	175	133	121	125	122	112	117
16	171	154	165	180	173	176	133	126	129	131	115	121
17	171	157	165	178	173	176	130	124	127	143	130	138
18	166	158	162	173	170	172	130	124	127	142	100	127
19	179	156	167	172	168	170	129	121	125	101	96	99
20	173	146	164	168	162	165	129	122	126	108	96	101
21	165	154	162	167	156	162	131	115	125	130	106	119
22	163	156	159	165	157	161	123	108	114	130	117	123
23	167	155	162	162	151	156	133	118	127	152	115	129
24	163	155	159	157	151	155	141	126	135	262	150	178
25	161	153	157	154	146	150	140	132	136	288	127	191
26	162	153	156	147	139	142	132	118	122	144	98	116
27	161	148	156	139	129	134	123	119	121	98	92	94
28	166	151	157	129	123	126	126	118	121	97	88	93
29	---	---	---	125	122	124	144	116	124	88	79	84
30	---	---	---	126	121	123	144	131	136	87	77	81
31	---	---	---	130	121	125	---	---	---	81	74	77
MONTH	179	146	163	183	121	160	144	98	120	288	74	119
		JUNE			JULY			AUGUST			SEPTEMBER	
1	79	74	76	102	94	99	98	90	95	160	154	157
2	76	75	75	105	99	101	93	90	92	156	151	153
3	80	75	77	105	97	102	93	90	92	152	150	151
4	84	79	82	99	95	97	143	91	112	154	150	152
5	85	83	84	98	95	96	148	143	145	153	150	151
6	85	84	84	98	95	96	151	144	148	173	151	165
7	92	84	89	97	90	93	150	140	144	186	168	178
8	92	91	92	96	90	93	143	109	133	178	168	173
9	93	90	92	97	93	95	109	106	107	179	166	172
10	93	85	89	98	94	96	116	109	113	181	170	175
11	88	80	84	95	91	94	121	114	117	180	150	164
12	83	78	81	92	91	91	124	116	119	150	141	146
13	88	78	82	92	91	92	142	120	131	141	138	139
14	79	76	78	92	91	91	162	140	150	139	137	138
15	77	76	77	96	91	94	163	154	160	186	135	150
16	77	74	76	103	96	98	154	147	150	196	186	191
17	81	77	79	103	93	98	161	148	156	211	144	190
18	88	80	84	94	91	93	169	159	163	144	131	136
19	92	81	87	95	92	94	170	163	166	131	129	130
20	84	80	82	95	92	93	172	161	165	130	129	129
21	82	80	81	97	92	95	166	160	162	130	127	128
22	82	78	80	97	93	95	161	156	158	142	127	131
23	83	78	80	97	95	96	158	152	155	168	141	149
24	98	81	91	96	94	95	157	152	154	192	168	174
25	100	95	99	95	90	93	157	153	154	192	184	189
26	107	98	103	92	89	91	161	151	155	192	189	190
27	108	103	105	96	90	93	161	155	157	191	186	189
28	107	103	105	102	94	97	161	155	157	189	185	187
29	106	102	104	107	102	104	159	151	156	190	186	188
30	106	93	99	104	99	103	158	152	154	203	187	193
31	---	---	---	100	94	98	162	157	159	---	---	---
MONTH	108	74	87	107	89	96	172	90	141	211	127	162

07086000 ARKANSAS RIVER AT GRANITE, CO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.6	5.0	8.2	4.0	0.4	2.5	0.3	0.0	0.0	---	---	---
2	10.5	5.7	7.8	4.8	1.3	2.8	0.7	0.0	0.1	---	---	---
3	7.8	4.4	6.0	3.6	0.0	1.3	0.1	0.0	0.0	---	---	---
4	9.0	2.6	5.8	3.8	0.0	1.3	0.1	0.0	0.0	---	---	---
5	11.1	4.6	7.3	2.6	0.0	0.7	0.4	0.0	0.1	---	---	---
6	11.2	3.5	7.2	4.4	0.0	1.5	0.0	0.0	0.0	---	---	---
7	11.5	3.6	7.6	4.8	0.0	1.8	0.1	0.0	0.0	---	---	---
8	11.8	4.1	8.0	4.5	1.4	2.9	0.1	0.0	0.0	---	---	---
9	11.3	4.1	7.8	2.9	0.1	1.4	0.0	0.0	0.0	0.2	0.0	0.0
10	10.9	3.3	7.3	---	---	---	0.0	0.0	0.0	0.3	0.0	0.1
11	11.1	4.5	7.7	---	---	---	0.1	0.0	0.0	0.9	0.0	0.2
12	9.9	3.9	6.9	---	---	---	0.1	0.0	0.0	1.0	0.0	0.2
13	9.8	1.6	5.6	1.8	0.0	0.5	0.1	0.0	0.0	0.5	0.0	0.1
14	10.0	2.4	6.0	2.4	0.0	0.7	0.1	0.0	0.0	0.6	0.0	0.1
15	9.5	2.0	5.8	2.5	0.0	0.6	0.1	0.0	0.0	0.1	0.0	0.0
16	9.4	2.9	6.0	0.6	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0
17	9.6	1.7	5.6	1.6	0.0	0.3	0.1	0.0	0.0	0.1	0.0	0.0
18	9.5	2.0	5.8	1.4	0.0	0.3	---	---	---	0.1	0.0	0.0
19	9.1	2.1	5.6	0.4	0.0	0.1	---	---	---	0.1	0.0	0.0
20	8.1	1.6	4.9	1.9	0.0	0.3	---	---	---	0.1	0.0	0.0
21	7.1	1.4	4.5	2.4	0.0	0.5	---	---	---	0.4	0.0	0.1
22	7.1	1.7	4.6	2.0	0.0	0.5	---	---	---	0.8	0.0	0.1
23	7.3	2.8	5.0	1.5	0.0	0.3	---	---	---	1.5	0.0	0.4
24	6.5	2.9	4.8	2.5	0.0	0.9	---	---	---	1.7	0.0	0.6
25	6.9	1.8	4.4	1.7	0.0	0.3	---	---	---	1.9	0.0	0.5
26	6.2	1.6	4.1	0.1	0.0	0.0	---	---	---	1.7	0.0	0.3
27	5.9	3.9	4.8	0.1	0.0	0.0	---	---	---	2.9	0.0	0.8
28	6.9	2.4	4.6	0.1	0.0	0.0	---	---	---	1.5	0.0	0.4
29	5.7	1.2	3.2	0.4	0.0	0.1	---	---	---	2.1	0.0	0.4
30	3.3	0.2	1.8	0.5	0.0	0.1	---	---	---	2.4	0.0	0.6
31	5.5	0.9	3.2	---	---	---	---	---	---	3.4	0.0	0.9
MONTH	11.8	0.2	5.7	---	---	---	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	3.4	0.0	1.0	0.7	0.0	0.1	8.3	0.8	4.4	10.8	2.2	6.5
2	2.1	0.0	0.6	0.7	0.0	0.1	7.0	1.0	3.8	10.1	3.5	7.0
3	1.6	0.0	0.3	1.3	0.0	0.2	5.9	0.6	3.1	9.6	4.5	7.4
4	0.1	0.0	0.0	2.5	0.0	0.4	5.7	0.3	2.7	10.9	4.3	7.1
5	0.1	0.0	0.0	2.5	0.0	0.5	5.0	0.7	2.6	11.2	4.0	6.9
6	0.0	0.0	0.0	1.5	0.0	0.2	5.7	0.7	2.8	11.4	3.7	7.4
7	0.1	0.0	0.0	4.1	0.0	0.9	5.1	0.0	2.2	9.5	4.4	6.8
8	0.1	0.0	0.0	4.7	0.0	1.2	7.4	0.0	2.9	10.6	4.6	7.4
9	0.1	0.0	0.0	4.8	0.0	1.1	9.0	0.2	4.3	11.2	5.1	7.8
10	0.1	0.0	0.0	5.1	0.0	1.4	9.2	1.4	5.0	8.0	3.8	6.1
11	0.1	0.0	0.0	4.7	0.0	1.5	9.2	1.9	5.2	11.6	2.8	7.1
12	0.1	0.0	0.0	5.3	0.0	1.6	7.4	2.0	4.7	13.2	4.5	8.7
13	0.2	0.0	0.1	5.5	0.0	1.5	9.9	1.8	5.5	11.8	5.8	8.9
14	0.3	0.0	0.1	3.4	0.0	1.4	9.5	2.1	5.7	12.9	5.5	9.4
15	1.1	0.0	0.3	6.4	0.1	3.1	5.8	2.7	4.3	10.0	7.4	8.9
16	1.5	0.0	0.3	4.3	1.4	2.9	9.7	0.8	4.8	14.6	6.6	10.3
17	2.4	0.0	0.6	4.2	0.2	2.1	7.2	2.2	4.9	14.2	7.0	10.4
18	2.1	0.0	0.5	2.2	0.0	0.9	9.1	2.4	5.3	12.8	7.0	9.6
19	1.6	0.0	0.2	4.1	0.0	1.7	6.7	2.2	4.3	12.5	7.0	9.8
20	0.7	0.0	0.1	5.3	0.0	2.4	10.4	1.8	5.6	11.4	6.8	8.8
21	0.8	0.0	0.1	7.2	1.1	3.6	7.7	3.2	5.4	13.0	5.8	9.3
22	1.2	0.0	0.2	8.0	0.0	3.7	8.1	3.7	5.6	13.6	6.8	10.3
23	0.4	0.0	0.1	9.0	0.9	4.6	5.2	2.1	3.6	13.5	7.5	10.7
24	2.6	0.0	0.5	6.9	1.1	3.8	8.4	1.2	4.6	12.4	7.6	10.4
25	1.8	0.0	0.4	7.6	0.1	3.5	11.0	2.1	6.3	10.5	7.3	9.1
26	1.0	0.0	0.2	5.8	1.1	3.2	11.4	3.2	7.1	11.2	6.0	8.9
27	1.6	0.0	0.4	3.4	0.0	1.3	10.7	3.4	7.0	13.9	8.0	10.9
28	0.5	0.0	0.1	4.5	0.0	1.4	11.3	3.1	7.0	13.9	8.3	11.3
29	---	---	---	2.8	0.0	0.7	12.7	3.2	7.5	13.4	8.0	10.9
30	---	---	---	5.6	0.0	2.1	10.8	3.8	7.4	12.2	9.1	10.8
31	---	---	---	9.4	0.1	3.5	---	---	---	13.0	8.5	10.6
MONTH	3.4	0.0	0.2	9.4	0.0	1.8	12.7	0.0	4.9	14.6	2.2	8.9

07086000 ARKANSAS RIVER AT GRANITE, CO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11.5	9.3	10.2	16.0	11.4	13.6	19.0	14.3	16.4	18.9	11.3	15.0
2	12.5	8.1	10.3	17.6	11.3	14.3	19.4	14.7	16.7	17.6	11.0	14.4
3	13.2	8.8	11.0	17.2	11.4	14.3	18.7	15.5	17.0	15.8	11.6	13.5
4	12.9	8.7	10.9	17.3	11.6	14.4	19.3	15.1	16.9	16.9	10.6	13.6
5	11.2	9.0	10.2	15.6	11.5	14.0	19.3	12.2	15.8	16.3	10.4	13.3
6	11.7	7.7	9.8	15.4	11.7	13.8	17.3	12.4	15.2	15.6	11.5	13.2
7	12.7	8.5	10.4	16.3	11.6	14.2	17.7	11.9	14.8	13.2	11.1	12.1
8	13.4	7.6	10.6	17.4	12.5	14.9	19.8	12.9	15.6	16.5	8.6	12.3
9	12.1	8.8	10.7	17.6	12.7	15.3	18.3	15.1	16.6	12.6	10.2	11.4
10	13.8	8.8	11.1	17.6	12.5	15.1	18.5	14.9	16.5	12.7	8.7	10.3
11	14.0	9.3	11.7	17.2	12.4	15.0	18.3	15.1	16.3	11.9	7.7	9.8
12	13.0	10.0	11.5	17.1	13.2	15.2	17.8	14.2	15.8	15.1	8.0	11.2
13	12.1	8.8	10.5	16.9	13.3	15.3	18.1	13.4	15.4	12.9	9.7	11.0
14	13.5	9.5	11.6	16.7	13.3	14.9	19.5	11.5	15.2	14.3	7.4	10.6
15	14.1	10.3	12.2	16.5	12.9	14.5	19.8	11.1	15.2	14.4	7.4	10.8
16	12.1	10.3	11.2	17.2	13.0	14.6	16.9	11.9	14.3	13.9	6.0	9.9
17	12.6	9.0	10.9	17.9	12.8	15.0	16.5	11.7	13.8	14.3	8.0	11.0
18	12.9	9.9	11.2	18.4	13.5	15.7	16.0	11.6	13.6	13.4	7.2	10.1
19	12.1	9.8	10.9	17.9	13.9	15.7	18.1	10.1	13.8	13.8	7.4	10.5
20	12.3	9.7	11.1	17.0	13.6	15.4	19.9	11.0	15.2	14.0	8.2	10.8
21	14.1	9.5	11.8	18.3	13.6	15.8	17.0	12.2	14.8	14.0	7.8	10.7
22	14.6	10.3	12.5	18.7	13.9	16.2	16.3	12.4	14.5	14.5	7.8	10.8
23	14.0	10.8	12.5	18.2	14.2	15.8	16.1	12.6	14.4	14.6	7.2	10.7
24	14.3	9.7	11.9	18.0	14.0	16.0	17.6	10.9	14.2	14.5	6.5	10.2
25	14.5	9.5	11.9	18.0	14.6	16.2	17.0	12.4	14.6	13.3	5.6	9.4
26	16.0	9.6	12.6	18.6	14.7	16.4	18.5	11.4	14.6	13.5	5.4	9.4
27	16.4	9.7	13.1	18.1	15.0	16.3	17.4	12.2	14.8	13.7	5.7	9.7
28	15.3	10.1	12.9	18.9	14.4	16.2	16.3	12.7	14.2	14.0	6.0	9.9
29	15.7	10.5	13.1	18.3	13.8	15.7	18.4	10.8	14.3	13.5	5.7	9.6
30	15.2	10.9	13.2	18.5	14.0	16.3	15.7	11.7	13.5	13.5	6.4	9.7
31	---	---	---	17.4	14.4	15.9	18.7	11.5	14.5	---	---	---
MONTH	16.4	7.6	11.4	18.9	11.3	15.2	19.9	10.1	15.1	18.9	5.4	11.2

07087050 ARKANSAS RIVER BELOW GRANITE, CO

LOCATION.--Lat 38°59'42", long 106°13'11", in SW¼NW¼ sec.22, T.12 S., R.79 W., Chaffee County, Hydrologic Unit 11020001, on right bank 500 ft east of U.S. Highway 24, 1.0 mi downstream from Pine Creek, and 4.8 mi southeast of Granite.

DRAINAGE AREA.--546 mi^2.

PERIOD OF RECORD.--March 1999 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07087050

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,620 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transmountain diversions (see elsewhere in this report), diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. 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.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 3,280 ft^3/s, May 31, 2000, gage height, 8.06 ft; minimum daily, 101 ft^3/s, Sept. 15, 22-23, 2002.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 3,230 ft^3/s, June 1-2, gage height, 8.01 ft; minimum daily, 125 ft^3/s (estimated), Apr. 1.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e125	224	3,150	819	631	240
2	---	---	---	---	---	---	168	240	3,020	776	616	254
3	---	---	---	---	---	---	191	235	2,640	733	606	220
4	---	---	---	---	---	---	176	234	2,140	707	581	209
5	---	---	---	---	---	---	168	238	1,830	692	513	203
6	---	---	---	---	---	---	168	240	1,550	646	560	226
7	---	---	---	---	---	---	173	236	1,210	671	581	263
8	---	---	---	---	---	---	176	236	1,040	697	435	267
9	---	---	---	---	---	---	177	236	1,100	682	661	286
10	---	---	---	---	---	---	195	236	1,360	675	656	361
11	---	---	---	---	---	---	218	231	1,510	668	581	379
12	---	---	---	---	---	---	221	228	1,670	643	453	374
13	---	---	---	---	---	---	219	244	1,890	675	313	357
14	---	---	---	---	---	---	237	279	1,760	686	257	348
15	---	---	---	---	---	---	226	351	1,680	691	201	304
16	---	---	---	---	---	---	189	384	1,870	688	187	217
17	---	---	---	---	---	---	198	404	1,620	698	202	223
18	---	---	---	---	---	---	195	578	1,410	713	218	304
19	---	---	---	---	---	---	190	840	1,340	706	229	291
20	---	---	---	---	---	---	185	718	1,530	700	207	287
21	---	---	---	---	---	---	196	597	1,480	708	197	285
22	---	---	---	---	---	---	245	663	1,500	693	195	271
23	---	---	---	---	---	---	236	889	1,410	687	207	224
24	---	---	---	---	---	---	228	1,160	1,090	697	222	187
25	---	---	---	---	---	---	244	1,220	898	699	258	165
26	---	---	---	---	---	---	254	1,320	784	718	299	145
27	---	---	---	---	---	---	260	1,610	740	745	277	139
28	---	---	---	---	---	---	269	1,960	724	709	266	135
29	---	---	---	---	---	---	255	2,310	726	614	230	133
30	---	---	---	---	---	---	229	2,800	784	624	235	133
31	---	---	---	---	---	---	---	2,990	---	629	250	---
TOTAL	---	---	---	---	---	---	6,211	24,131	45,456	21,489	11,324	7,430
MEAN	---	---	---	---	---	---	207	778	1,515	693	365	248
MAX	---	---	---	---	---	---	269	2,990	3,150	819	661	379
MIN	---	---	---	---	---	---	125	224	724	614	187	133
AC-FT	---	---	---	---	---	---	12,320	47,860	90,160	42,620	22,460	14,740

e Estimated.

07091200 ARKANSAS RIVER NEAR NATHROP, CO

LOCATION.--Lat 38°39'08", long 106°03'02", in SE¼SW¼ sec.23, T.51 N., R.8 E., Chaffee County, Hydrologic Unit 11020001, on right bank 300 ft upstream from end of Chaffee County Road 194 in Browns Canyon, 3.7 mi downstream from Browns Creek, 6.7 mi south of Nathrop, and 9 mi north of Salida.

DRAINAGE AREA.--1,060 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to September 1982. April 1989 to September 1993. October 1993 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07091200

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,350 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (occurred during period of seasonal record), 5,540 ft^3/s, July 14, 1995, gage height, 8.63 ft, from rating curve extended above 5,500 ft^3/s; maximum gage height, 8.94 ft, Aug. 31, 1972 (backwater from unnamed tributary); minimum daily, 95 ft^3/s, Feb. 25-27, 1977.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 3,310 ft^3/s, June 2, gage height, 7.35 ft; minimum daily, 179 ft^3/s, Apr. 1.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	179	286	3,140	923	674	327
2	---	---	---	---	---	---	203	298	3,070	899	657	330
3	---	---	---	---	---	---	253	301	2,800	846	642	317
4	---	---	---	---	---	---	245	293	2,350	820	642	326
5	---	---	---	---	---	---	230	295	2,060	796	543	311
6	---	---	---	---	---	---	229	300	1,800	760	576	323
7	---	---	---	---	---	---	225	286	1,430	746	614	361
8	---	---	---	---	---	---	233	287	1,200	775	530	411
9	---	---	---	---	---	---	236	291	1,180	762	619	380
10	---	---	---	---	---	---	242	288	1,490	743	665	471
11	---	---	---	---	---	---	270	287	1,630	741	644	496
12	---	---	---	---	---	---	278	282	1,770	706	551	474
13	---	---	---	---	---	---	275	287	1,900	719	438	468
14	---	---	---	---	---	---	287	308	1,860	737	e375	451
15	---	---	---	---	---	---	297	361	1,790	710	e300	438
16	---	---	---	---	---	---	256	421	1,890	710	e275	348
17	---	---	---	---	---	---	256	431	1,720	715	e300	327
18	---	---	---	---	---	---	257	549	1,560	727	306	370
19	---	---	---	---	---	---	254	836	1,400	718	335	380
20	---	---	---	---	---	---	252	821	1,640	715	318	374
21	---	---	---	---	---	---	249	675	1,590	724	302	370
22	---	---	---	---	---	---	293	731	1,550	711	300	375
23	---	---	---	---	---	---	307	953	1,550	691	306	e337
24	---	---	---	---	---	---	289	1,230	1,260	709	334	e307
25	---	---	---	---	---	---	301	1,490	1,020	709	353	e286
26	---	---	---	---	---	---	309	1,430	951	739	380	e271
27	---	---	---	---	---	---	312	1,810	884	779	374	e259
28	---	---	---	---	---	---	314	2,210	866	819	367	e253
29	---	---	---	---	---	---	320	2,510	862	668	354	e249
30	---	---	---	---	---	---	288	2,940	866	663	370	e247
31	---	---	---	---	---	---	---	3,070	---	666	352	---
TOTAL	---	---	---	---	---	---	7,939	26,557	49,079	23,146	13,796	10,637
MEAN	---	---	---	---	---	---	265	857	1,636	747	445	355
MAX	---	---	---	---	---	---	320	3,070	3,140	923	674	496
MIN	---	---	---	---	---	---	179	282	862	663	275	247
AC-FT	---	---	---	---	---	---	15,750	52,680	97,350	45,910	27,360	21,100

e Estimated.

07091200 ARKANSAS RIVER NEAR NATHROP, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- October to November 1964, October 1968 to September 1982, April to October 1987, April 1989 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07091200

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1989 to September 1993.
pH: April 1989 to September 1993.
WATER TEMPERATURE: April 1989 to September 1993, April 1996 to current year (seasonal records only).

INSTRUMENTATION.--Water-temperature probe with satellite telemetry.

REMARKS.--Daily water-temperature records are good. Reported values may not be representative of the stream when flows are less than about 210 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum (occurred during period of seasonal record), 22.3°C, July 21, 2002; minimum, 0.0°C on many days.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE (seasonal only): Maximum, 19.7°C, Aug. 5; minimum, 2.5°C, Apr. 8.

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				AUG			
04...	1000	252	189	05...	1900	529	141
MAR				25...	1315	357	165
14...	1100	167	189	SEP			
APR				19...	1400	384	160
30...	1615	304	142				
MAY							
29...	1315	2,540	90				

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

07091200 ARKANSAS RIVER NEAR NATHROP, CO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	11.3	5.9	8.9	12.1	7.4	9.4
2	---	---	---	---	---	---	10.6	6.7	8.8	11.8	7.7	9.8
3	---	---	---	---	---	---	9.6	5.4	7.6	12.4	8.6	10.5
4	---	---	---	---	---	---	8.5	3.8	6.2	12.2	8.1	9.8
5	---	---	---	---	---	---	6.9	3.7	5.5	12.0	7.7	10.0
6	---	---	---	---	---	---	7.2	3.5	5.5	13.6	7.9	10.7
7	---	---	---	---	---	---	7.1	3.1	5.3	12.3	7.6	9.9
8	---	---	---	---	---	---	9.2	2.5	5.7	11.7	7.2	9.6
9	---	---	---	---	---	---	11.1	3.9	7.5	12.7	7.9	10.2
10	---	---	---	---	---	---	12.1	5.8	9.1	12.7	7.3	10.0
11	---	---	---	---	---	---	12.4	6.5	9.6	13.4	6.4	10.1
12	---	---	---	---	---	---	11.5	6.9	9.2	15.2	8.0	11.6
13	---	---	---	---	---	---	12.7	6.3	9.6	15.4	9.5	12.5
14	---	---	---	---	---	---	12.0	7.1	9.9	15.3	9.6	12.6
15	---	---	---	---	---	---	11.3	7.5	8.9	14.8	11.2	12.3
16	---	---	---	---	---	---	11.0	4.7	7.7	16.0	9.2	12.5
17	---	---	---	---	---	---	10.5	6.4	8.6	15.8	11.3	13.6
18	---	---	---	---	---	---	11.5	6.3	8.7	13.9	11.2	12.3
19	---	---	---	---	---	---	10.7	6.5	7.6	14.5	10.6	12.3
20	---	---	---	---	---	---	11.3	5.7	8.2	12.1	9.8	10.6
21	---	---	---	---	---	---	12.1	7.2	9.6	14.5	8.9	11.4
22	---	---	---	---	---	---	11.6	8.1	10.0	15.2	10.2	12.7
23	---	---	---	---	---	---	10.2	5.8	7.4	14.9	10.8	12.9
24	---	---	---	---	---	---	10.1	3.9	6.7	14.9	11.1	13.1
25	---	---	---	---	---	---	13.1	6.0	9.5	13.0	10.6	11.7
26	---	---	---	---	---	---	14.0	7.9	11.1	12.4	9.3	11.0
27	---	---	---	---	---	---	12.9	8.2	10.8	14.3	10.2	12.2
28	---	---	---	---	---	---	13.0	7.5	10.4	14.4	11.0	12.8
29	---	---	---	---	---	---	14.0	7.9	11.1	13.7	11.0	12.4
30	---	---	---	---	---	---	14.0	8.4	11.0	12.8	11.2	12.0
31	---	---	---	---	---	---	---	---	---	12.2	10.4	11.4
MONTH	---	---	---	---	---	---	14.0	2.5	8.5	16.0	6.4	11.4
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.2	11.0	11.6	17.2	13.4	15.3	18.0	14.6	16.3	18.5	13.6	16.1
2	13.2	10.0	11.6	17.9	13.5	15.7	19.6	15.2	17.2	18.0	13.6	16.0
3	13.5	10.4	12.1	18.1	14.2	16.2	19.4	16.2	17.7	16.8	13.7	14.6
4	13.5	10.6	12.1	18.3	14.0	16.2	19.5	15.8	17.6	18.0	12.2	14.9
5	12.6	10.5	11.4	16.8	13.7	15.5	19.7	15.2	17.4	17.2	13.6	15.5
6	12.3	9.7	10.9	16.1	13.4	14.9	17.9	15.2	16.8	16.8	13.3	14.9
7	13.4	10.4	11.8	17.8	13.1	15.5	17.9	14.7	16.4	15.0	12.9	13.9
8	14.3	10.0	12.1	18.7	13.9	16.3	19.1	15.3	17.1	15.8	11.1	13.5
9	13.7	10.9	12.3	18.8	14.3	16.5	18.7	15.6	17.3	14.7	12.4	13.1
10	13.3	10.4	12.0	18.8	13.9	16.4	18.3	15.5	17.0	12.8	10.6	11.6
11	14.8	10.8	12.8	18.1	14.3	16.3	19.0	15.6	17.3	13.4	9.2	11.2
12	13.9	11.5	12.9	18.1	14.5	16.3	18.3	15.1	16.8	14.7	9.3	11.9
13	13.0	11.0	11.9	18.6	14.6	16.5	19.6	14.8	17.1	13.5	10.1	11.6
14	14.7	10.9	12.8	17.6	14.2	15.9	19.2	14.4	16.9	13.5	8.7	11.0
15	15.3	12.0	13.8	16.6	13.9	15.5	19.1	14.5	16.9	14.3	9.0	11.7
16	14.3	12.3	13.2	17.3	14.0	15.7	18.3	14.8	16.7	15.0	9.7	12.3
17	13.1	10.8	12.0	18.9	14.2	16.5	17.2	13.7	15.7	15.4	11.0	13.1
18	14.0	11.3	12.6	19.6	15.3	17.4	16.5	13.5	15.1	14.2	9.3	11.9
19	14.7	11.0	12.8	17.7	15.8	16.9	17.6	12.8	15.2	14.1	8.7	11.4
20	13.2	11.2	12.4	17.4	15.0	16.3	18.5	13.8	16.3	14.1	9.9	12.0
21	15.0	10.7	12.9	18.1	14.9	16.5	17.9	14.9	16.4	14.1	9.3	11.7
22	15.3	11.6	13.6	18.5	14.9	16.5	18.2	14.5	16.4	14.3	8.9	11.7
23	15.5	12.0	13.9	18.1	15.5	16.8	17.2	14.4	15.8	14.5	9.3	12.0
24	15.4	11.7	13.6	19.6	14.9	17.0	17.1	14.2	15.7	14.6	9.3	12.0
25	15.8	11.8	13.8	18.1	15.6	16.9	16.3	14.3	15.3	14.4	9.6	12.2
26	16.3	11.9	14.1	18.9	15.2	17.0	16.9	13.5	15.1	14.7	9.2	12.0
27	17.0	12.5	14.8	17.8	15.9	16.9	17.9	13.9	15.7	14.2	9.8	12.2
28	17.2	12.7	14.9	18.3	14.8	16.7	16.3	14.5	15.2	14.0	9.4	11.8
29	16.1	13.0	14.9	18.8	15.5	16.9	17.6	12.9	15.0	14.1	9.1	11.7
30	17.3	13.0	15.0	18.7	15.0	16.8	16.6	13.9	15.1	13.7	9.6	11.8
31	---	---	---	18.1	15.2	16.5	18.1	13.5	15.6	---	---	---
MONTH	17.3	9.7	12.9	19.6	13.1	16.3	19.7	12.8	16.3	18.5	8.7	12.7

07093700 ARKANSAS RIVER NEAR WELLSVILLE, CO

LOCATION.--Lat 38°30'10", long 105°56'21", in SW¼NE¼ sec.14, T.49 N., R.9 E., Chaffee County, Hydrologic Unit 11020001, on right bank 50 ft upstream from Chaffee-Fremont County line, 2.0 mi northwest of Wellsville, 2.8 mi downstream from South Arkansas River, and 3.5 mi southeast of Salida.

DRAINAGE AREA.--1,485 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1961 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07093700

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,883.4 ft above NGVD of 1929 (river-profile survey).

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin and transmountain diversions, storage reservoirs, power developments, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	228	245	223	214	221	207	190	237	3,320	903	679	341
2	240	240	222	206	221	209	205	239	3,240	884	668	330
3	265	237	224	217	221	198	243	247	2,960	822	649	332
4	267	227	216	237	205	205	250	242	2,440	802	644	344
5	255	224	217	239	200	210	230	239	2,120	779	579	328
6	246	217	216	239	213	202	221	244	1,860	755	578	336
7	229	211	212	e220	e202	203	221	236	1,490	720	616	377
8	230	209	212	e210	e198	202	227	232	1,210	755	585	441
9	232	237	205	215	195	197	225	235	1,150	744	554	402
10	228	238	205	e213	196	189	224	233	1,430	721	665	475
11	205	224	203	e218	217	188	245	234	1,580	723	662	528
12	196	221	197	e218	212	194	256	228	1,710	695	589	499
13	184	225	207	e214	226	193	257	228	1,840	696	479	489
14	181	238	214	213	233	188	263	246	1,830	721	390	482
15	182	238	210	215	225	194	274	300	1,750	700	345	459
16	186	222	209	201	217	196	252	374	1,810	700	313	393
17	184	221	212	200	212	192	234	402	1,700	706	314	347
18	197	228	209	198	214	206	238	495	1,560	716	326	368
19	207	220	189	213	212	190	237	733	e1,380	717	389	394
20	207	219	188	213	205	178	235	805	e1,610	740	390	390
21	206	228	e212	217	207	185	216	651	1,580	742	366	382
22	218	230	e210	213	217	191	233	665	1,510	731	367	385
23	226	228	e210	215	207	192	255	878	1,520	711	382	363
24	238	228	e207	218	197	201	245	1,170	1,250	723	413	327
25	239	231	e202	217	217	199	246	1,580	990	719	439	299
26	234	216	e200	212	219	192	254	1,600	944	737	466	283
27	230	206	e202	212	210	196	262	2,010	865	778	461	262
28	231	213	230	218	214	193	269	2,550	844	819	430	256
29	228	221	229	213	---	188	308	2,920	844	706	416	251
30	234	228	229	208	---	185	273	3,180	830	670	392	249
31	236	---	218	216	---	185	---	3,310	---	677	366	---
TOTAL	6,869	6,770	6,539	6,672	5,933	6,048	7,288	26,943	49,167	23,012	14,912	11,112
MEAN	222	226	211	215	212	195	243	869	1,639	742	481	370
MAX	267	245	230	239	233	210	308	3,310	3,320	903	679	528
MIN	181	206	188	198	195	178	190	228	830	670	313	249
AC-FT	13,620	13,430	12,970	13,230	11,770	12,000	14,460	53,440	97,520	45,640	29,580	22,040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2003, BY WATER YEAR (WY)

MEAN	405	417	380	354	348	336	387	1,034	2,064	1,428	868	500
MAX	750	581	636	576	729	647	896	2,344	3,930	3,521	1,889	1,031
(WY)	(1985)	(1983)	(1983)	(1983)	(1985)	(1993)	(1962)	(1984)	(1980)	(1995)	(1984)	(1970)
MIN	222	226	211	207	208	195	215	380	417	278	260	218
(WY)	(2003)	(2003)	(2003)	(1977)	(1977)	(2003)	(1977)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1961 - 2003	
ANNUAL TOTAL	104,744		171,265			
ANNUAL MEAN	287		469		716	
HIGHEST ANNUAL MEAN					a1,135	1984
LOWEST ANNUAL MEAN					318	2002
HIGHEST DAILY MEAN	564	May 23	3,320	Jun 1	5,980	Jun 12, 1980
LOWEST DAILY MEAN	179	Sep 16	178	Mar 20	110	Jan 12, 1963
ANNUAL SEVEN-DAY MINIMUM	187	Oct 12	187	Oct 12	147	Jan 11, 1963
MAXIMUM PEAK FLOW			3,540	May 31	6,240	Jun 12, 1980
MAXIMUM PEAK STAGE			6.95	May 31	b8.02	Jun 12, 1980
ANNUAL RUNOFF (AC-FT)	207,800		339,700		518,700	
10 PERCENT EXCEEDS	383		880		1,600	
50 PERCENT EXCEEDS	265		236		439	
90 PERCENT EXCEEDS	210		198		258	

e Estimated.
a Highest annual mean, also occurred 1995 water year.
b Maximum gage height, 8.40 ft, Jun 23, 1995.

07093700 ARKANSAS RIVER NEAR WELLSVILLE, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1961 to January 1962, February to October 1964, December 1968, April 1969 to September 1975, March 1978 to February 1980, April to October 1987, April 1990 to March 1993, January 2002 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07093700

WATER-QUALITY DATA COLLECTED AS PART OF PREFERRED STORAGE OPTIONS PLAN, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specif. conduct-ance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)
NOV				
14...	1345	250	214	4.5
DEC				
06...	1200	234	222	0.5
FEB				
07...	1345	220	235	0.0
MAR				
26...	1245	193	219	7.5
MAY				
09...	1530	236	135	15.5
JUN				
03...	1630	2,900	90	13.5
JUL				
02...	1330	886	131	17.5
AUG				
21...	1530	364	206	17.5
SEP				
05...	1000	328	213	15.5

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO

LOCATION.--Lat 38°39'32", long 105°48'48", in SE¼SE¼ sec.13, T.51 N., R.10 E., Fremont County, Hydrologic Unit 11020001, on left bank 0.1 mi downstream from County Road 2, 1.0 mi upstream from Steer Creek, 14.3 mi north of Howard, and 14.6 mi upstream from mouth.

DRAINAGE AREA.--106 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1980 to September 1986, October 1986 to current year (seasonal records only). Records prior to October 1988 not equivalent because of seepage between sites. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07093740

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,790 ft above NGVD of 1929, from topographic map. Prior to Oct. 28, 1988, at site 0.2 mi downstream at different datum. Mar. 24, 1989 to June 30, 1994, at site 0.1 mi downstream at different datum. July 1, 1994 to Aug. 1, 1996, at site 60 ft upstream at datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream may be affected by erosion- control or livestock-watering reservoirs.

AVERAGE DISCHARGE.--5 years (water years 1981-86), 5.89 ft^3/s; 4,270 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,360 ft^3/s, Aug. 14, 1983, from slope-area measurement of peak flow, gage height, 8.22 ft, site and datum then in use; no flow, July 17-23, 1989.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 11 ft^3/s, Aug. 22, gage height, 2.56 ft, from rating curve extended above 6.9 ft^3/s on basis of slope-area measurement of peak flow at gage height 3.76 ft; minimum daily, 0.04 ft^3/s, on several days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.12	---	---	---	---	---	e4.0	0.21	0.26	0.07	0.05	0.20
2	0.28	---	---	---	---	---	e3.0	0.22	0.24	0.06	0.04	0.19
3	0.43	---	---	---	---	---	2.5	0.22	0.17	0.06	0.04	0.20
4	0.42	---	---	---	---	---	0.88	0.20	0.15	0.05	0.04	0.23
5	0.27	---	---	---	---	---	0.53	0.19	0.17	0.05	0.04	0.23
6	0.25	---	---	---	---	---	0.46	0.17	0.21	0.05	0.04	0.64
7	0.22	---	---	---	---	---	0.46	0.15	0.16	0.05	0.05	0.49
8	0.22	---	---	---	---	---	0.53	0.17	0.14	0.04	0.05	0.31
9	0.23	---	---	---	---	---	0.79	0.15	0.11	0.04	0.06	0.25
10	0.23	---	---	---	---	---	1.0	0.15	0.10	0.04	0.05	0.25
11	0.24	---	---	---	---	---	1.1	0.31	0.10	0.04	0.06	0.23
12	0.24	---	---	---	---	---	1.2	0.12	0.09	0.04	0.06	0.21
13	0.26	---	---	---	---	---	0.96	0.21	0.10	0.04	0.06	0.20
14	0.29	---	---	---	---	---	1.1	0.20	0.12	0.04	0.06	0.21
15	0.29	---	---	---	---	---	0.96	0.36	0.12	0.04	0.05	0.21
16	0.30	---	---	---	---	---	0.69	0.80	0.13	0.05	0.06	0.20
17	0.30	---	---	---	---	---	0.67	0.38	0.20	0.05	0.07	0.19
18	0.31	---	---	---	---	---	0.66	0.32	0.20	0.04	0.07	0.19
19	0.31	---	---	---	---	---	0.56	0.33	0.40	0.04	0.07	0.19
20	e0.30	---	---	---	---	---	0.58	0.27	0.41	0.05	0.06	0.19
21	e0.30	---	---	---	---	---	0.61	0.22	0.30	0.04	0.07	0.20
22	e0.30	---	---	---	---	---	0.65	0.15	0.19	0.04	0.44	0.21
23	e0.28	---	---	---	---	---	0.62	0.16	0.14	0.05	0.23	0.21
24	e0.28	---	---	---	---	---	0.54	0.16	0.11	0.05	0.12	0.22
25	e0.25	---	---	---	---	---	0.44	0.18	0.10	0.05	0.17	0.22
26	e0.25	---	---	---	---	---	0.40	0.34	0.09	0.05	0.18	0.23
27	e0.25	---	---	---	---	---	0.32	0.20	0.08	0.06	0.15	0.22
28	e0.25	---	---	---	---	---	0.31	0.18	0.08	0.06	0.15	0.24
29	e0.25	---	---	---	---	---	0.29	0.23	0.08	0.06	0.15	0.25
30	e0.25	---	---	---	---	---	0.25	0.23	0.07	0.05	0.17	0.25
31	e0.25	---	---	---	---	---	---	0.24	---	0.05	0.23	---
TOTAL	8.42	---	---	---	---	---	27.06	7.42	4.82	1.50	3.14	7.26
MEAN	0.27	---	---	---	---	---	0.90	0.24	0.16	0.048	0.10	0.24
MAX	0.43	---	---	---	---	---	4.0	0.80	0.41	0.07	0.44	0.64
MIN	0.12	---	---	---	---	---	0.25	0.12	0.07	0.04	0.04	0.19
AC-FT	17	---	---	---	---	---	54	15	9.6	3.0	6.2	14

e Estimated.

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1981 to September 1986, October 1986 to current year (seasonal records only). Prior to March 1989, at site 1,000 ft downstream, not equivalent because of seepage inflow between sites. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07093740

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: March 1995 to current year (seasonal records only).
SUSPENDED-SEDIMENT DISCHARGE: June 1981 to current year (seasonal records only).

INSTRUMENTATION.--Pumping sediment sampler and water-temperature probe with satellite telemetry.

REMARKS.--Daily water temperature records are good. Daily water-temperature data that are not published during period of operation are either missing or of unacceptable quality.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE (seasonal only): Maximum, 30.7°C, July 28, 1995, July 18, 1998; minimum, 0.0°C, on many days.
SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 25,800 mg/L, Aug. 20, 1982; minimum daily mean, 4 mg/L, Aug. 31, Sept. 1, 4, 1988, Aug. 31, 1990.
SUSPENDED-SEDIMENT DISCHARGE (seasonal only): Maximum daily, 15,600 tons, Aug. 14, 1983; minimum daily, 0.0 ton, on many days during 1989-90, 2002, 2003.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE (seasonal only): Maximum, 28.9°C, July 17; minimum, 0.0°C, on many days.
SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 1,680 mg/L, Aug. 23; minimum daily mean, 6 mg/L, May 12, 14.
SUSPENDED-SEDIMENT DISCHARGE (seasonal only): Maximum daily, 9.8 tons (estimated) Apr. 1; minimum daily, 0.0 ton, on many days.

MISCELLANEOUS FIELD AND SUSPENDED-SEDIMENT DISCHARGE DATA,
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)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
OCT						
16...	1145	0.28	397	3.5	11	0.01
NOV						
04...	1500	0.23	389	4.3	12	0.01
APR						
01...	1800	2.6	344	6.2	637	4.5
09...	1200	0.36	388	7.0	49	0.05
19...	1230	0.38	388	--	--	--
21...	1330	0.65	399	9.9	24	0.04
MAY						
06...	1430	0.17	373	--	--	--
06...	1500	0.17	373	15.0	8	0.00
19...	1300	0.41	407	--	--	--
22...	1200	0.15	--	--	18	0.01
JUN						
13...	1200	0.10	402	--	--	--
13...	1245	0.11	402	14.0	28	0.01
24...	1630	0.08	378	20.7	52	0.01
JUL						
10...	1315	0.04	390	--	--	--
10...	1400	0.04	396	26.0	244	0.03
28...	1130	0.06	416	--	--	--
28...	1200	0.06	416	18.5	117	0.02
AUG						
05...	1445	0.04	371	--	--	--
21...	1130	0.06	403	--	--	--
21...	1145	0.07	403	14.5	85	0.02
SEP						
11...	1130	0.25	430	--	--	--
11...	1200	0.24	430	8.5	101	0.07

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.2	3.1	8.5	---	---	---	---	---	---	---	---	---
2	11.2	5.7	8.1	---	---	---	---	---	---	---	---	---
3	9.4	2.4	5.6	---	---	---	---	---	---	---	---	---
4	13.2	1.5	6.4	---	---	---	---	---	---	---	---	---
5	14.5	3.3	8.0	---	---	---	---	---	---	---	---	---
6	15.3	2.2	7.9	---	---	---	---	---	---	---	---	---
7	15.4	2.0	8.0	---	---	---	---	---	---	---	---	---
8	15.1	2.2	8.0	---	---	---	---	---	---	---	---	---
9	15.2	2.5	8.1	---	---	---	---	---	---	---	---	---
10	13.6	1.1	6.9	---	---	---	---	---	---	---	---	---
11	14.1	2.2	7.2	---	---	---	---	---	---	---	---	---
12	12.2	2.1	6.2	---	---	---	---	---	---	---	---	---
13	12.7	0.1	5.4	---	---	---	---	---	---	---	---	---
14	12.8	0.1	5.3	---	---	---	---	---	---	---	---	---
15	11.8	0.1	4.8	---	---	---	---	---	---	---	---	---
16	11.5	0.1	4.5	---	---	---	---	---	---	---	---	---
17	11.4	0.0	4.6	---	---	---	---	---	---	---	---	---
18	11.1	0.1	4.4	---	---	---	---	---	---	---	---	---
19	10.3	0.0	4.1	---	---	---	---	---	---	---	---	---
20	10.2	0.0	4.2	---	---	---	---	---	---	---	---	---
21	11.4	0.0	4.6	---	---	---	---	---	---	---	---	---
22	9.5	0.1	4.1	---	---	---	---	---	---	---	---	---
23	10.5	1.0	5.3	---	---	---	---	---	---	---	---	---
24	9.1	0.8	4.8	---	---	---	---	---	---	---	---	---
25	8.7	0.1	3.8	---	---	---	---	---	---	---	---	---
26	7.0	0.1	3.3	---	---	---	---	---	---	---	---	---
27	7.2	0.1	3.4	---	---	---	---	---	---	---	---	---
28	6.7	0.8	3.6	---	---	---	---	---	---	---	---	---
29	4.9	0.1	2.0	---	---	---	---	---	---	---	---	---
30	3.3	0.0	1.0	---	---	---	---	---	---	---	---	---
31	4.2	0.0	1.4	---	---	---	---	---	---	---	---	---
MONTH	16.2	0.0	5.3	---	---	---	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	6.7	0.0	2.6	13.6	0.0	6.2
2	---	---	---	---	---	---	6.4	0.0	2.3	13.7	2.3	7.7
3	---	---	---	---	---	---	6.6	0.0	2.6	14.7	1.6	7.4
4	---	---	---	---	---	---	6.4	0.0	2.6	15.4	0.9	6.9
5	---	---	---	---	---	---	7.3	0.0	2.9	15.8	0.5	6.9
6	---	---	---	---	---	---	7.8	0.1	3.0	17.5	0.2	7.7
7	---	---	---	---	---	---	6.5	0.1	2.7	14.5	0.0	6.7
8	---	---	---	---	---	---	10.5	0.1	4.0	17.6	0.1	7.7
9	---	---	---	---	---	---	12.9	0.1	5.9	15.4	0.7	7.0
10	---	---	---	---	---	---	14.5	0.4	7.0	13.5	0.0	4.9
11	---	---	---	---	---	---	14.8	1.4	7.5	17.4	0.0	6.9
12	---	---	---	---	---	---	12.2	1.7	6.5	20.3	0.0	8.9
13	---	---	---	---	---	---	16.5	1.0	7.7	17.7	0.5	8.4
14	---	---	---	---	---	---	15.2	2.4	7.7	20.0	1.2	10.0
15	---	---	---	---	---	---	8.8	2.0	5.3	11.6	4.4	7.4
16	---	---	---	---	---	---	16.9	0.0	6.7	22.2	4.1	11.9
17	---	---	---	---	---	---	13.7	1.2	6.5	20.8	4.8	11.9
18	---	---	---	---	---	---	15.6	0.9	7.0	18.9	5.6	11.2
19	---	---	---	---	---	---	6.6	1.4	3.6	16.2	3.8	9.5
20	---	---	---	---	---	---	17.8	0.8	6.7	10.7	3.4	6.5
21	---	---	---	---	---	---	13.9	2.6	6.8	20.8	1.6	10.3
22	---	---	---	---	---	---	14.0	3.3	7.6	23.3	3.2	12.2
23	---	---	---	---	---	---	6.9	0.0	3.5	23.5	4.1	12.8
24	---	---	---	---	---	---	14.0	0.0	5.6	19.8	5.3	11.5
25	---	---	---	---	---	---	19.5	0.0	8.0	17.3	5.5	10.1
26	---	---	---	---	---	---	19.2	0.8	8.8	19.8	4.9	11.7
27	---	---	---	---	---	---	16.8	0.2	7.2	23.1	6.8	13.8
28	---	---	---	---	---	---	16.3	0.1	7.3	24.5	6.8	14.7
29	---	---	---	---	---	---	16.8	1.6	8.3	26.1	6.8	14.7
30	---	---	---	---	---	---	17.5	0.7	7.9	23.5	8.3	14.1
31	---	---	---	---	---	---	---	---	---	20.1	7.8	12.4
MONTH	---	---	---	---	---	---	19.5	0.0	5.7	26.1	0.0	9.7

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.5	7.6	11.9	22.5	8.3	15.6	22.3	9.6	15.6	22.6	10.1	15.5
2	24.1	5.2	13.2	27.5	7.7	16.7	26.6	9.3	16.2	20.0	8.9	14.3
3	24.4	5.3	13.7	28.1	9.3	17.4	24.4	13.0	17.5	14.7	10.0	12.2
4	25.0	7.6	13.6	28.0	8.1	16.8	22.4	11.1	16.5	21.0	9.7	14.3
5	15.8	6.8	10.0	25.0	8.2	15.7	25.5	9.9	16.7	17.4	8.5	13.2
6	19.4	6.0	11.8	22.6	8.1	15.1	20.8	10.1	15.3	16.1	10.4	12.7
7	19.9	6.6	11.7	26.4	7.3	15.4	22.0	9.6	15.2	15.3	10.3	12.2
8	23.5	6.2	13.2	28.0	7.9	16.8	22.6	12.8	16.5	20.0	7.0	12.8
9	23.1	5.6	12.7	28.0	7.3	16.6	21.6	10.9	16.1	12.8	9.1	11.0
10	22.1	5.3	12.8	28.6	7.4	16.7	21.0	9.5	15.3	14.7	6.7	10.2
11	24.9	5.1	14.1	27.0	8.0	16.3	22.7	9.8	15.3	14.5	4.2	8.9
12	20.1	6.6	13.1	23.4	9.0	16.2	22.2	9.5	15.2	18.2	4.1	10.4
13	16.4	7.1	11.8	25.6	9.4	16.7	23.5	9.4	15.5	10.9	6.1	7.8
14	22.9	5.6	13.4	22.1	8.3	14.7	24.4	7.3	14.8	16.2	3.6	9.1
15	27.6	6.3	14.5	25.2	8.2	15.2	25.0	7.8	15.2	16.4	2.9	9.2
16	20.1	7.9	12.0	26.7	9.8	15.9	19.0	9.1	13.3	16.4	3.6	9.7
17	21.8	5.0	11.3	28.9	10.2	18.1	20.5	8.9	13.9	17.2	6.8	11.2
18	17.9	6.5	11.1	27.9	9.9	17.8	19.0	9.3	13.5	15.8	5.3	9.7
19	18.5	7.6	11.4	25.7	11.6	17.3	23.1	8.0	14.6	15.5	2.4	8.7
20	19.6	8.1	13.1	21.9	11.1	16.3	24.7	8.4	15.2	14.8	3.7	8.9
21	23.3	6.8	14.1	26.3	9.7	16.9	19.9	9.7	14.7	15.5	2.8	8.7
22	23.9	6.6	14.2	24.9	9.6	15.6	22.9	9.3	14.0	15.8	2.1	8.7
23	23.1	6.2	13.7	26.6	9.4	15.9	22.2	10.6	15.3	16.1	2.9	9.1
24	22.9	6.9	13.6	26.7	9.2	16.8	20.5	10.1	15.0	15.9	2.9	8.9
25	24.3	7.0	14.4	26.7	10.6	16.9	16.0	11.7	14.2	15.5	3.3	9.1
26	26.7	9.4	16.0	23.6	10.8	16.0	17.3	10.6	13.7	16.5	3.2	9.3
27	26.2	7.0	15.4	24.3	13.2	16.9	20.0	9.4	14.2	16.1	4.7	9.9
28	27.3	7.7	15.8	23.0	11.0	16.5	16.5	12.2	14.1	14.6	3.2	8.6
29	21.6	8.7	13.9	25.3	10.4	16.3	17.0	9.1	13.1	15.1	2.8	8.5
30	26.3	8.3	15.5	24.4	9.2	16.1	16.6	11.2	13.5	13.2	3.4	8.1
31	---	---	---	22.6	9.4	15.4	19.0	10.5	14.1	---	---	---
MONTH	27.6	5.0	13.2	28.9	7.3	16.3	26.6	7.3	14.9	22.6	2.1	10.4

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
	OCTOBER			NOVEMBER			DECEMBER		
1	0.12	55	0.02	---	---	---	---	---	---
2	0.28	55	0.04	---	---	---	---	---	---
3	0.43	48	0.06	---	---	---	---	---	---
4	0.42	56	0.06	---	---	---	---	---	---
5	0.27	---	e0.04	---	---	---	---	---	---
6	0.25	36	0.02	---	---	---	---	---	---
7	0.22	30	0.02	---	---	---	---	---	---
8	0.22	29	0.02	---	---	---	---	---	---
9	0.23	39	0.02	---	---	---	---	---	---
10	0.23	---	e0.02	---	---	---	---	---	---
11	0.24	24	0.02	---	---	---	---	---	---
12	0.24	18	0.01	---	---	---	---	---	---
13	0.26	18	0.01	---	---	---	---	---	---
14	0.29	20	0.02	---	---	---	---	---	---
15	0.29	---	e0.02	---	---	---	---	---	---
16	0.30	16	0.01	---	---	---	---	---	---
17	0.30	24	0.02	---	---	---	---	---	---
18	0.31	34	0.03	---	---	---	---	---	---
19	0.31	42	0.04	---	---	---	---	---	---
20	e0.30	---	e0.03	---	---	---	---	---	---
21	e0.30	---	e0.02	---	---	---	---	---	---
22	e0.30	---	e0.02	---	---	---	---	---	---
23	e0.28	---	e0.03	---	---	---	---	---	---
24	e0.28	---	e0.02	---	---	---	---	---	---
25	e0.25	---	e0.02	---	---	---	---	---	---
26	e0.25	---	e0.03	---	---	---	---	---	---
27	e0.25	---	e0.03	---	---	---	---	---	---
28	e0.25	---	e0.03	---	---	---	---	---	---
29	e0.25	---	e0.04	---	---	---	---	---	---
30	e0.25	---	e0.04	---	---	---	---	---	---
31	e0.25	---	e0.05	---	---	---	---	---	---
TOTAL	8.42	---	0.86	---	---	---	---	---	---
	JANUARY			FEBRUARY			MARCH		
1	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---

07093740 BADGER CREEK, UPPER STATION, NEAR HOWARD, CO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
		APRIL			MAY			JUNE	
1	e4.0	---	e9.8	0.21	9	0.00	0.26	76	0.05
2	e3.0	---	e6.8	0.22	11	0.00	0.24	---	e0.04
3	2.5	259	1.9	0.22	---	e0.00	0.17	53	0.02
4	0.88	---	e0.28	0.20	10	0.00	0.15	42	0.02
5	0.53	---	e0.13	0.19	11	0.00	0.17	39	0.02
6	0.46	59	0.07	0.17	9	0.00	0.21	51	0.03
7	0.46	---	e0.07	0.15	13	0.00	0.16	---	e0.02
8	0.53	---	e0.07	0.17	---	e0.00	0.14	46	0.02
9	0.79	64	0.16	0.15	18	0.00	0.11	42	0.01
10	1.0	113	0.35	0.15	22	0.00	0.10	53	0.01
11	1.1	114	0.36	0.31	32	0.37	0.10	59	0.02
12	1.2	104	0.35	0.12	6	0.00	0.09	---	e0.01
13	0.96	---	e0.27	0.21	---	e0.00	0.10	36	0.00
14	1.1	91	0.26	0.20	6	0.00	0.12	37	0.01
15	0.96	69	0.18	0.36	21	0.03	0.12	51	0.02
16	0.69	75	0.14	0.80	88	0.21	0.13	60	0.02
17	0.67	69	0.13	0.38	46	0.05	0.20	---	e0.03
18	0.66	---	e0.10	0.32	---	e0.03	0.20	57	0.03
19	0.56	37	0.06	0.33	23	0.02	0.40	92	0.12
20	0.58	28	0.04	0.27	19	0.01	0.41	153	0.17
21	0.61	29	0.05	0.22	22	0.01	0.30	92	0.08
22	0.65	37	0.06	0.15	22	0.00	0.19	---	e0.03
23	0.62	---	e0.06	0.16	---	e0.01	0.14	46	0.02
24	0.54	37	0.05	0.16	37	0.02	0.11	43	0.01
25	0.44	44	0.05	0.18	35	0.02	0.10	56	0.02
26	0.40	29	0.03	0.34	82	0.07	0.09	59	0.01
27	0.32	23	0.02	0.20	85	0.04	0.08	---	e0.01
28	0.31	---	e0.01	0.18	---	e0.04	0.08	55	0.01
29	0.29	12	0.00	0.23	63	0.04	0.08	65	0.01
30	0.25	8	0.00	0.23	58	0.04	0.07	80	0.02
31	---	---	---	0.24	74	0.05	---	---	---
TOTAL	27.06	---	21.85	7.42	---	1.06	4.82	---	0.89
		JULY			AUGUST			SEPTEMBER	
1	0.07	94	0.02	0.05	---	e0.02	0.20	130	0.07
2	0.06	---	e0.02	0.04	122	0.01	0.19	134	0.07
3	0.06	82	0.01	0.04	128	0.01	0.20	125	0.07
4	0.05	68	0.00	0.04	144	0.02	0.23	120	0.07
5	0.05	101	0.01	0.04	155	0.02	0.23	---	e0.06
6	0.05	122	0.02	0.04	---	e0.02	0.64	329	1.9
7	0.05	---	e0.01	0.05	108	0.01	0.49	260	0.79
8	0.04	95	0.01	0.05	110	0.02	0.31	145	0.12
9	0.04	120	0.01	0.06	117	0.02	0.25	115	0.08
10	0.04	235	0.02	0.05	121	0.02	0.25	---	e0.06
11	0.04	257	0.03	0.06	---	e0.02	0.23	94	0.06
12	0.04	---	e0.02	0.06	102	0.02	0.21	96	0.05
13	0.04	186	0.02	0.06	82	0.01	0.20	90	0.05
14	0.04	161	0.02	0.06	103	0.02	0.21	108	0.06
15	0.04	202	0.02	0.05	115	0.02	0.21	---	e0.06
16	0.05	211	0.03	0.06	---	e0.02	0.20	89	0.05
17	0.05	---	e0.03	0.07	72	0.01	0.19	95	0.05
18	0.04	180	0.02	0.07	64	0.01	0.19	146	0.07
19	0.04	169	0.02	0.07	92	0.02	0.19	144	0.07
20	0.05	196	0.02	0.06	117	0.02	0.19	---	e0.06
21	0.04	221	0.03	0.07	91	0.02	0.20	90	0.05
22	0.04	---	e0.02	0.44	1,030	6.4	0.21	---	e0.05
23	0.05	120	0.02	0.23	1,680	1.1	0.21	105	0.06
24	0.05	110	0.01	0.12	848	0.28	0.22	117	0.07
25	0.05	175	0.02	0.17	777	0.40	0.22	---	e0.06
26	0.05	218	0.03	0.18	---	e0.35	0.23	78	0.05
27	0.06	---	e0.03	0.15	394	0.16	0.22	91	0.05
28	0.06	118	0.02	0.15	184	0.08	0.24	185	0.12
29	0.06	133	0.02	0.15	143	0.06	0.25	140	0.10
30	0.05	160	0.02	0.17	119	0.06	0.25	---	e0.07
31	0.05	172	0.02	0.23	---	e0.07	---	---	---
TOTAL	1.50	---	0.60	3.14	---	9.32	7.26	---	4.55

e Estimated.

07093775 BADGER CREEK, LOWER STATION, NEAR HOWARD, CO

LOCATION.--Lat 38°28'02", long 105°51'34", in SW¼SW¼ sec.27, T.49 N., R.10 E., Fremont County, Hydrologic Unit 11020001, on left bank 660 ft upstream from Denver and Rio Grande Railroad bridge, 960 ft upstream from mouth, and 1.9 mi northwest of Howard.

DRAINAGE AREA.--211 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1980 to September 1996, October 1996 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07093775

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,780 ft above NGVD of 1929, from topographic map. Prior to May 19, 1983, at site 360 ft downstream at datum 5.07 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream may be affected by erosion-control and livestock-watering reservoirs.

EXTREMES FOR PERIOD Of RECORD .--Maximum discharge, 2,900 ft^3/s, July 8, 1996, from slope-area measurement of peak flow, gage height, 10.73 ft, from floodmarks; minimum daily, 0.56 ft^3/s, Feb. 4-5, 1982.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 86 ft^3/s, July 22, gage height, 4.80 ft, from floodmarks; minimum daily, 3.0 ft^3/s, Aug. 4.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	---	---	---	---	---	6.6	6.4	6.2	3.7	3.1	3.6
2	5.3	---	---	---	---	---	7.9	6.5	5.9	3.6	3.1	3.5
3	6.0	---	---	---	---	---	8.2	6.3	5.7	3.5	3.2	3.9
4	5.5	---	---	---	---	---	7.8	6.3	5.7	3.5	3.0	4.0
5	5.0	---	---	---	---	---	7.5	6.4	5.9	3.5	3.2	3.8
6	4.8	---	---	---	---	---	7.3	6.3	5.7	3.5	3.2	4.0
7	4.6	---	---	---	---	---	7.2	6.2	5.6	3.6	3.2	4.5
8	4.4	---	---	---	---	---	7.0	6.2	5.4	3.5	3.2	4.1
9	4.4	---	---	---	---	---	7.0	6.1	5.2	3.3	3.3	4.2
10	4.4	---	---	---	---	---	7.4	6.1	5.3	3.3	3.9	4.3
11	4.3	---	---	---	---	---	8.0	6.1	5.2	3.3	3.5	4.1
12	4.3	---	---	---	---	---	8.2	5.9	5.1	3.4	3.4	3.9
13	4.4	---	---	---	---	---	8.1	5.7	5.0	3.3	3.3	4.0
14	4.3	---	---	---	---	---	8.3	5.6	5.2	3.3	3.2	4.0
15	4.3	---	---	---	---	---	8.6	6.4	5.1	3.5	3.1	3.7
16	4.3	---	---	---	---	---	8.0	6.7	5.3	3.9	3.3	3.6
17	4.4	---	---	---	---	---	7.7	6.3	5.4	3.9	3.5	3.5
18	4.3	---	---	---	---	---	7.5	6.1	7.9	3.4	3.5	3.6
19	4.2	---	---	---	---	---	7.7	6.2	5.8	3.5	3.5	3.7
20	4.2	---	---	---	---	---	7.6	6.6	5.6	4.1	3.2	3.6
21	4.2	---	---	---	---	---	7.6	6.4	5.2	3.5	3.1	3.6
22	4.4	---	---	---	---	---	7.8	6.0	5.0	6.3	3.3	3.6
23	4.8	---	---	---	---	---	7.8	5.7	4.8	e3.2	3.8	3.5
24	4.9	---	---	---	---	---	7.4	5.6	4.5	e3.1	3.6	3.5
25	4.8	---	---	---	---	---	7.3	6.2	4.4	3.1	3.7	3.5
26	4.8	---	---	---	---	---	7.2	6.3	4.4	3.2	3.7	3.4
27	5.0	---	---	---	---	---	7.1	6.1	4.5	5.1	3.6	3.5
28	4.9	---	---	---	---	---	6.9	5.8	4.4	6.2	3.8	3.5
29	4.8	---	---	---	---	---	6.7	5.6	4.2	4.0	3.8	3.6
30	4.9	---	---	---	---	---	6.6	6.2	3.9	3.2	3.8	3.6
31	4.8	---	---	---	---	---	---	6.2	---	3.1	3.7	---
TOTAL	144.1	---	---	---	---	---	226.0	190.5	157.5	114.6	105.8	112.9
MEAN	4.65	---	---	---	---	---	7.53	6.15	5.25	3.70	3.41	3.76
MAX	6.0	---	---	---	---	---	8.6	6.7	7.9	6.3	3.9	4.5
MIN	4.2	---	---	---	---	---	6.6	5.6	3.9	3.1	3.0	3.4
AC-FT	286	---	---	---	---	---	448	378	312	227	210	224

e Estimated.

07093775 BADGER CREEK, LOWER STATION, NEAR HOWARD, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- February 1981 to September 1996, October 1996 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07093775

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE.--March 1995 to September 1996, March 1997 to current year (seasonal records only).
SUSPENDED SEDIMENT.--May 1981 to September 1995 (seasonal records only).

INSTRUMENTATION.--Water temperature probe with satellite telemetry.

REMARKS.--Daily water-temperature records are good.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE (seasonal only): Maximum, 30.0°C, July 31, 2002; minimum, 0.0°C, on many days during water years 1996 and 1998.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE (seasonal only): Maximum, 29.2°C, July 22; minimum, 0.8°C, Apr. 8.

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)
NOV				JUN			
07...	1100	3.8	1,210	13...	1430	5.0	1,160
MAR				26...	1300	4.6	1,160
13...	1500	4.5	1,210	JUL			
APR				24...	1830	3.2	1,200
21...	1555	7.3	1,070	AUG			
MAY				21...	1410	3.1	1,230
22...	1400	5.6	1,080	SEP			
				24...	1330	3.4	1,190

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	19.6	6.0	10.9	---	---	---	---	---	---	---	---	---
2	10.8	8.0	9.5	---	---	---	---	---	---	---	---	---
3	14.6	5.9	8.6	---	---	---	---	---	---	---	---	---
4	16.8	4.4	9.2	---	---	---	---	---	---	---	---	---
5	18.9	5.8	9.9	---	---	---	---	---	---	---	---	---
6	18.7	5.6	10.2	---	---	---	---	---	---	---	---	---
7	19.4	5.3	10.6	---	---	---	---	---	---	---	---	---
8	19.3	6.0	11.0	---	---	---	---	---	---	---	---	---
9	18.7	6.5	10.9	---	---	---	---	---	---	---	---	---
10	18.2	5.1	10.2	---	---	---	---	---	---	---	---	---
11	18.3	5.9	10.2	---	---	---	---	---	---	---	---	---
12	16.3	6.4	9.5	---	---	---	---	---	---	---	---	---
13	17.4	4.3	9.1	---	---	---	---	---	---	---	---	---
14	17.1	4.6	9.0	---	---	---	---	---	---	---	---	---
15	16.6	3.6	8.3	---	---	---	---	---	---	---	---	---
16	15.7	3.6	7.7	---	---	---	---	---	---	---	---	---
17	16.2	3.0	8.0	---	---	---	---	---	---	---	---	---
18	15.9	3.9	8.3	---	---	---	---	---	---	---	---	---
19	15.6	3.6	7.8	---	---	---	---	---	---	---	---	---
20	15.6	3.5	7.9	---	---	---	---	---	---	---	---	---
21	15.1	3.7	7.8	---	---	---	---	---	---	---	---	---
22	12.5	3.8	7.3	---	---	---	---	---	---	---	---	---
23	8.6	4.5	6.2	---	---	---	---	---	---	---	---	---
24	12.2	4.2	6.6	---	---	---	---	---	---	---	---	---
25	13.3	3.0	6.9	---	---	---	---	---	---	---	---	---
26	10.1	3.1	6.3	---	---	---	---	---	---	---	---	---
27	12.0	4.3	7.2	---	---	---	---	---	---	---	---	---
28	13.9	3.6	7.2	---	---	---	---	---	---	---	---	---
29	11.1	2.6	5.7	---	---	---	---	---	---	---	---	---
30	7.8	1.6	3.5	---	---	---	---	---	---	---	---	---
31	10.2	1.7	4.1	---	---	---	---	---	---	---	---	---
MONTH	19.6	1.6	8.2	---	---	---	---	---	---	---	---	---

07093775 BADGER CREEK, LOWER STATION, NEAR HOWARD, CO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	17.6	2.9	8.4	16.7	3.4	8.8
2	---	---	---	---	---	---	12.3	3.3	7.0	16.6	5.8	10.0
3	---	---	---	---	---	---	14.2	2.5	6.7	18.7	6.3	10.5
4	---	---	---	---	---	---	13.3	1.5	5.9	17.9	5.4	9.5
5	---	---	---	---	---	---	10.7	2.8	5.8	16.4	5.0	8.9
6	---	---	---	---	---	---	14.3	2.3	6.5	15.5	5.0	9.2
7	---	---	---	---	---	---	8.2	1.6	4.6	16.7	5.2	9.4
8	---	---	---	---	---	---	16.1	0.8	6.8	15.3	4.8	9.0
9	---	---	---	---	---	---	17.8	1.7	8.0	17.2	4.6	9.7
10	---	---	---	---	---	---	17.7	2.9	8.8	18.3	3.7	9.3
11	---	---	---	---	---	---	17.8	3.7	8.9	18.6	3.2	9.8
12	---	---	---	---	---	---	15.3	3.8	8.5	20.9	4.5	11.3
13	---	---	---	---	---	---	18.3	3.8	9.5	19.6	5.7	11.1
14	---	---	---	---	---	---	17.0	3.9	9.2	20.9	6.2	12.2
15	---	---	---	---	---	---	10.2	4.4	7.4	15.8	8.3	10.6
16	---	---	---	---	---	---	17.6	3.2	8.7	22.8	6.7	13.3
17	---	---	---	---	---	---	15.9	4.0	8.6	20.6	8.3	13.4
18	---	---	---	---	---	---	15.8	3.9	8.2	16.2	8.3	11.8
19	---	---	---	---	---	---	9.3	4.7	6.5	20.0	7.1	11.9
20	---	---	---	---	---	---	16.5	4.6	9.1	11.3	6.9	8.6
21	---	---	---	---	---	---	14.7	5.7	8.9	22.0	5.2	12.0
22	---	---	---	---	---	---	14.8	6.8	9.2	23.2	7.2	13.7
23	---	---	---	---	---	---	10.3	3.6	6.7	21.6	8.0	13.7
24	---	---	---	---	---	---	16.5	3.3	8.1	24.2	8.7	14.7
25	---	---	---	---	---	---	18.7	3.9	9.9	20.4	9.1	13.1
26	---	---	---	---	---	---	19.2	5.0	10.7	22.8	8.2	13.7
27	---	---	---	---	---	---	17.0	4.9	9.5	19.4	9.4	13.6
28	---	---	---	---	---	---	19.2	5.2	10.3	25.8	9.6	16.0
29	---	---	---	---	---	---	18.6	5.2	10.2	25.6	10.1	15.6
30	---	---	---	---	---	---	16.2	4.9	8.9	23.9	10.9	14.7
31	---	---	---	---	---	---	---	---	---	20.1	10.4	13.6
MONTH	---	---	---	---	---	---	19.2	0.8	8.2	25.8	3.2	11.7
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.8	10.5	13.3	26.7	11.1	17.4	23.4	14.7	18.8	26.8	12.6	17.6
2	23.9	8.2	14.4	26.9	10.8	17.5	25.4	15.0	19.4	25.9	11.2	16.7
3	24.0	8.8	15.0	27.0	11.2	17.6	23.3	16.4	19.5	19.0	12.6	14.6
4	23.6	10.4	14.9	28.2	10.8	17.7	24.9	16.0	19.6	26.0	10.8	16.1
5	15.3	9.3	11.8	25.5	10.9	17.1	29.0	15.2	19.5	23.9	11.5	15.4
6	19.7	8.5	13.2	24.4	11.1	16.7	28.0	12.5	17.9	23.8	12.2	15.9
7	19.3	9.6	12.5	25.6	11.0	16.8	27.2	12.3	17.5	20.4	11.9	14.5
8	23.8	7.2	14.1	28.2	11.2	17.9	27.2	14.5	18.6	24.2	9.3	14.8
9	21.7	9.1	14.0	28.4	10.8	17.8	26.5	13.5	17.9	14.3	11.4	12.7
10	21.4	8.9	14.0	28.5	11.2	18.2	27.1	12.5	17.7	18.9	9.3	12.1
11	23.6	8.8	14.3	28.1	11.0	17.5	26.4	12.4	17.5	18.3	6.4	11.2
12	23.2	9.2	14.5	26.5	11.9	17.9	25.5	12.7	18.0	22.7	6.7	12.8
13	18.3	9.4	13.4	27.1	12.1	18.3	27.7	12.8	18.3	13.4	8.1	10.1
14	21.2	8.7	14.0	27.3	11.3	17.6	26.3	11.3	17.2	20.7	5.5	11.4
15	26.2	9.2	15.3	26.8	11.9	17.0	26.9	11.9	17.6	21.2	5.6	11.8
16	20.1	10.8	13.8	27.9	12.0	17.3	26.7	12.5	17.2	22.3	6.7	12.4
17	23.8	9.0	13.6	28.5	12.6	19.0	23.5	11.6	16.2	22.4	9.1	13.6
18	24.1	3.8	12.9	28.6	12.6	19.0	19.8	11.9	15.0	19.7	8.2	11.7
19	22.3	9.5	13.6	28.4	13.6	18.4	25.4	10.9	16.9	21.2	5.4	11.3
20	18.7	10.2	13.8	24.0	13.2	17.1	27.5	11.7	17.9	20.2	6.5	11.4
21	23.1	8.8	14.5	28.3	12.5	18.2	23.1	12.5	16.7	21.1	6.1	11.7
22	23.8	8.9	14.8	29.2	9.2	16.6	25.8	11.9	16.9	22.0	5.7	11.8
23	23.5	8.9	15.0	26.2	12.5	17.3	27.1	12.7	17.3	21.4	6.3	12.1
24	24.3	9.3	15.3	28.5	12.1	18.8	28.1	12.2	17.7	22.0	6.3	12.0
25	24.6	10.0	15.8	27.4	13.3	19.0	23.6	13.6	16.4	22.1	6.8	12.5
26	25.5	11.5	16.8	28.6	13.5	18.6	25.7	13.2	16.6	22.4	6.4	12.5
27	26.5	10.2	16.9	25.2	14.8	17.5	27.5	12.2	17.5	21.0	7.4	12.2
28	25.4	10.6	16.1	21.0	13.8	16.8	20.4	13.7	16.1	20.3	6.6	11.5
29	23.5	10.7	15.8	24.5	14.9	18.8	25.6	11.1	16.5	21.6	6.1	11.8
30	25.6	11.8	16.9	24.9	14.9	19.3	19.9	13.6	15.4	18.9	6.8	11.1
31	---	---	---	22.7	15.1	18.2	24.7	12.9	16.5	---	---	---
MONTH	26.5	3.8	14.5	29.2	9.2	17.8	29.0	10.9	17.5	26.8	5.4	12.9

07094500 ARKANSAS RIVER AT PARKDALE, CO

LOCATION.--Lat 38°29'14", long 105°22'23", in NE¼NW¼ sec.18, T.18 S., R.71 W., Fremont County, Hydrologic Unit 11020001, on left bank at Parkdale, 100 ft upstream from Bumback Gulch, 300 ft upstream from bridge on U.S. Highway 50, and 0.9 mi upstream from Copper Gulch.

DRAINAGE AREA.--2,548 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1945 to September 1955, October 1964 to September 1994, April 1995 to current year (seasonal records only). Monthly discharge only for October 1945 to May 1946, published in WSP 1311. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07094500

REVISED RECORDS.--WSP 1117: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,720 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 1964, at site 600 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transbasin and transmountain diversions, storage reservoirs, power development, ground-water withdrawals, diversions for irrigation and municipal use, return flows from irrigated areas, and flows from sewage-treatment plants.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (occurred during period of seasonal record), 6,830 ft^3/s, June 18, 1995, gage height, 8.82 ft, from rating curve extended above 6,050 ft^3/s; maximum gage height, 9.13 ft, June 9, 1985; minimum daily (occurred during period of seasonal record), 187 ft^3/s, Sept. 17, 2002.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 3,910 ft^3/s, May 31, gage height, 6.59 ft; minimum daily, 235 ft^3/s, Apr. 1.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	235	269	3,680	981	771	395
2	---	---	---	---	---	---	243	251	3,730	986	756	353
3	---	---	---	---	---	---	259	261	3,430	929	733	370
4	---	---	---	---	---	---	302	261	2,820	894	719	371
5	---	---	---	---	---	---	288	256	2,380	866	692	367
6	---	---	---	---	---	---	268	258	2,120	847	625	357
7	---	---	---	---	---	---	261	257	1,730	807	658	394
8	---	---	---	---	---	---	260	247	1,410	818	675	481
9	---	---	---	---	---	---	266	245	1,280	815	571	468
10	---	---	---	---	---	---	261	247	1,420	804	750	489
11	---	---	---	---	---	---	264	247	1,660	793	756	600
12	---	---	---	---	---	---	289	246	1,790	784	696	584
13	---	---	---	---	---	---	293	238	1,920	760	601	551
14	---	---	---	---	---	---	286	244	2,040	787	482	560
15	---	---	---	---	---	---	300	278	1,900	786	412	528
16	---	---	---	---	---	---	308	372	1,890	779	363	484
17	---	---	---	---	---	---	264	415	1,970	793	345	383
18	---	---	---	---	---	---	261	486	1,750	784	352	354
19	---	---	---	---	---	---	262	684	1,610	786	385	417
20	---	---	---	---	---	---	272	895	1,760	813	437	418
21	---	---	---	---	---	---	259	800	1,770	827	411	406
22	---	---	---	---	---	---	240	709	1,650	823	398	394
23	---	---	---	---	---	---	268	863	1,670	809	426	395
24	---	---	---	---	---	---	279	1,160	1,480	801	449	347
25	---	---	---	---	---	---	259	1,550	1,200	787	476	317
26	---	---	---	---	---	---	269	1,500	1,110	814	511	296
27	---	---	---	---	---	---	275	1,820	1,020	851	527	281
28	---	---	---	---	---	---	282	2,340	975	924	486	267
29	---	---	---	---	---	---	300	2,770	955	873	491	258
30	---	---	---	---	---	---	327	3,370	958	765	448	250
31	---	---	---	---	---	---	---	3,720	---	744	424	---
TOTAL	---	---	---	---	---	---	8,200	27,259	55,078	25,630	16,826	12,135
MEAN	---	---	---	---	---	---	273	879	1,836	827	543	404
MAX	---	---	---	---	---	---	327	3,720	3,730	986	771	600
MIN	---	---	---	---	---	---	235	238	955	744	345	250
AC-FT	---	---	---	---	---	---	16,260	54,070	109,200	50,840	33,370	24,070

07094500 ARKANSAS RIVER AT PARKDALE, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1967 to June 1984, November 1986 to March 1996, April 1996 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07094500

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1986 to September 1993.
WATER TEMPERATURE: November 1986 to September 1993, April 1996 to current year (seasonal records only).

INSTRUMENTATION.--Water-temperature probe with satellite telemetry.

REMARKS.--Daily water-temperature records are good. Reported values may not be representative of the stream when flows are less than about 250 ft^3/s.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum (occurred during period of seasonal record), 26.4°C, July 12, 2002; minimum, 0.0°C, on many days.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE (seasonal only): Maximum, 23.1°C, Aug. 3; minimum 4.6°C, Apr. 8.

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				JUN			
04...	1340	283	269	03...	1300	3,510	110
MAR				AUG			
12...	1800	228	300	28...	1330	480	256
MAY				SEP			
02...	1345	264	250	24...	1600	340	256
29...	1945	2,870	120				

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

07094500 ARKANSAS RIVER AT PARKDALE, CO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	13.8	7.9	10.8	15.8	11.3	13.2
2	---	---	---	---	---	---	13.7	8.5	10.9	16.2	11.2	13.4
3	---	---	---	---	---	---	12.2	8.3	9.8	17.5	12.2	14.4
4	---	---	---	---	---	---	10.8	6.8	8.7	15.3	11.6	13.1
5	---	---	---	---	---	---	8.3	6.2	7.5	15.6	10.4	12.9
6	---	---	---	---	---	---	10.2	7.0	8.4	15.6	10.7	12.9
7	---	---	---	---	---	---	9.0	6.4	7.5	15.6	12.0	13.6
8	---	---	---	---	---	---	11.0	4.6	7.8	15.5	11.1	13.1
9	---	---	---	---	---	---	12.8	6.2	9.6	15.5	10.9	13.2
10	---	---	---	---	---	---	14.7	8.5	11.5	13.1	10.3	11.8
11	---	---	---	---	---	---	14.3	10.0	12.2	15.7	10.0	12.8
12	---	---	---	---	---	---	13.6	10.1	11.8	17.2	11.3	14.3
13	---	---	---	---	---	---	14.9	9.1	12.2	17.1	12.8	14.9
14	---	---	---	---	---	---	13.5	11.1	12.5	16.5	12.6	15.1
15	---	---	---	---	---	---	13.1	10.2	11.9	17.9	14.4	15.5
16	---	---	---	---	---	---	13.7	8.0	10.9	18.3	12.7	15.7
17	---	---	---	---	---	---	13.4	9.2	11.6	18.8	15.3	17.1
18	---	---	---	---	---	---	14.6	9.5	12.1	18.2	15.1	16.7
19	---	---	---	---	---	---	11.8	9.7	10.5	15.5	13.5	14.4
20	---	---	---	---	---	---	12.9	8.6	10.7	13.5	10.5	11.7
21	---	---	---	---	---	---	13.8	10.5	11.6	15.4	9.5	12.5
22	---	---	---	---	---	---	14.8	10.5	12.4	18.0	13.0	15.5
23	---	---	---	---	---	---	12.4	8.0	10.8	18.0	14.9	16.7
24	---	---	---	---	---	---	12.6	6.8	9.2	17.5	14.6	16.3
25	---	---	---	---	---	---	14.8	8.3	11.6	16.6	14.5	15.7
26	---	---	---	---	---	---	16.6	11.1	13.8	15.3	12.8	14.1
27	---	---	---	---	---	---	16.0	11.9	13.7	15.7	13.4	14.5
28	---	---	---	---	---	---	16.1	11.6	13.8	16.5	13.9	15.3
29	---	---	---	---	---	---	16.9	12.5	14.5	16.0	14.4	15.2
30	---	---	---	---	---	---	16.1	12.1	14.0	15.4	13.7	14.5
31	---	---	---	---	---	---	---	---	---	14.4	13.0	13.6
MONTH	---	---	---	---	---	---	16.9	4.6	11.1	18.8	9.5	14.3
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.0	12.1	13.1	20.3	17.0	18.7	19.4	17.3	18.6	21.3	17.4	19.2
2	15.0	11.8	13.4	20.8	17.3	19.1	21.4	17.6	19.4	21.6	17.5	19.3
3	15.5	12.9	14.1	21.4	17.6	19.5	23.1	19.0	20.7	19.2	16.8	18.0
4	15.6	13.6	14.6	20.9	17.5	19.4	22.3	18.9	20.6	19.9	15.1	17.5
5	14.4	12.6	13.1	20.3	17.9	19.3	22.6	18.9	20.7	19.7	16.7	18.2
6	14.6	11.5	13.0	20.0	17.7	18.8	22.1	18.7	20.4	19.6	17.3	18.3
7	13.8	11.7	12.7	20.0	16.1	18.1	21.0	18.6	19.9	18.4	16.8	17.3
8	16.2	12.3	14.2	21.8	16.8	19.1	21.7	18.8	20.1	18.4	15.1	16.9
9	16.5	14.4	15.5	21.4	18.0	19.7	22.0	19.2	20.6	17.5	15.3	16.3
10	15.8	14.0	15.0	22.5	18.1	20.1	20.9	18.4	19.9	16.0	13.5	14.7
11	16.8	13.5	15.2	20.6	18.1	19.6	21.6	18.1	19.6	14.3	11.5	13.1
12	17.0	14.3	15.7	20.5	18.3	19.3	22.5	18.3	20.3	15.9	11.6	13.9
13	16.2	14.1	14.7	20.5	17.9	19.2	22.8	18.6	20.5	15.2	11.0	12.9
14	15.6	12.7	14.3	20.9	18.1	19.5	21.9	18.1	19.9	14.4	9.7	12.1
15	17.5	14.4	15.9	21.0	17.7	19.2	21.9	17.9	19.8	15.2	11.7	13.6
16	16.9	15.0	15.8	21.0	17.4	19.0	22.1	17.9	19.3	15.8	12.3	14.3
17	16.0	13.4	14.8	22.0	17.5	19.7	22.0	17.7	19.4	16.9	13.6	15.2
18	15.5	13.0	14.4	22.9	18.5	20.6	19.7	17.4	18.4	14.9	12.4	13.7
19	16.5	13.6	15.1	22.9	19.5	21.1	20.6	16.2	18.4	14.8	11.3	13.2
20	16.1	13.7	15.0	21.3	19.0	19.9	22.1	17.8	20.0	14.6	11.5	13.3
21	16.8	13.4	15.1	21.2	17.9	19.6	22.3	18.5	20.1	15.4	11.9	13.8
22	17.9	14.0	16.0	21.9	18.3	20.0	20.7	17.2	18.9	15.3	12.0	13.8
23	17.8	14.3	16.3	20.0	18.1	19.2	20.9	17.5	19.1	16.0	12.4	14.3
24	18.1	14.7	16.4	22.6	17.9	20.1	22.7	17.4	19.8	15.5	12.1	14.1
25	18.0	14.6	16.4	22.6	19.3	21.2	20.6	18.6	19.1	16.1	12.3	14.3
26	18.6	15.5	17.0	22.2	19.0	20.6	20.0	17.7	18.9	16.2	12.4	14.5
27	19.0	16.2	17.7	20.8	18.6	19.5	20.3	17.1	18.7	16.3	12.7	14.5
28	19.9	16.8	18.3	19.7	17.8	18.9	19.5	17.8	18.8	15.7	12.1	13.8
29	18.8	16.2	17.8	20.8	17.6	19.0	20.0	16.1	17.9	15.4	11.2	13.3
30	20.1	17.0	18.5	21.5	18.2	19.8	18.0	17.0	17.4	15.1	11.7	13.3
31	---	---	---	20.2	18.3	19.3	18.5	16.0	17.3	---	---	---
MONTH	20.1	11.5	15.3	22.9	16.1	19.6	23.1	16.0	19.4	21.6	9.7	15.0

07096000 ARKANSAS RIVER AT CANON CITY, CO

LOCATION.--Lat 38°26'02", long 105°15'24", in SE¼SE¼ sec.31, T.18 S., R.70 W., Fremont County, Hydrologic Unit 11020002, on right bank 800 ft upstream from Sand Creek, 0.7 mi downstream from Grape Creek, and 0.7 mi upstream from First Street Bridge at Canon City.

DRAINAGE AREA.--3,117 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1888 to current year. Monthly discharge only for some periods, published in WSP 1311. Published as "near Canyon" 1900-1906. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07096000

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1311: 1897-98.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,342.13 ft above NGVD of 1929. See WSP 1711 or 1731 for history of changes prior to Oct. 1, 1957. Oct. 1, 1957 to Nov. 15, 1962, water-stage recorder at present site at datum 1.49 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, diverions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	221	222	e220	223	236	231	196	3,460	755	569	299
2	156	226	224	e220	228	231	273	173	3,540	751	559	255
3	163	221	224	e215	231	223	359	166	3,180	709	542	264
4	177	214	226	e215	223	217	348	165	2,720	668	525	271
5	175	205	219	e220	209	224	324	164	2,330	644	519	276
6	166	199	223	e220	216	225	272	166	2,050	640	464	264
7	161	210	222	e215	e215	216	264	165	1,650	608	492	292
8	157	226	223	223	e210	218	264	159	1,280	604	522	367
9	157	210	234	e225	e220	223	268	153	1,100	632	439	373
10	154	221	232	e225	e240	218	250	151	1,240	639	577	367
11	138	199	211	e230	260	213	205	132	1,520	633	580	470
12	117	190	e214	e220	263	208	205	123	1,660	646	557	460
13	111	190	e218	e220	274	215	198	119	1,790	620	484	436
14	98	215	e220	e215	287	200	194	126	1,900	632	396	442
15	102	204	e220	e220	266	192	212	131	1,790	609	331	415
16	128	191	e225	e220	243	209	245	220	1,780	595	288	393
17	132	176	232	e210	231	228	198	279	1,860	611	262	295
18	136	169	e230	e210	233	248	159	328	1,630	602	268	271
19	143	175	e215	e210	236	248	160	489	1,510	587	285	316
20	154	170	e210	e210	221	220	166	706	1,640	612	329	326
21	157	162	e215	e220	219	236	160	636	1,680	614	312	307
22	156	174	e220	e225	223	233	139	510	1,540	616	283	292
23	162	184	e230	e220	234	237	131	595	1,550	602	337	294
24	165	186	e230	224	219	245	149	906	1,350	592	361	263
25	176	190	e225	225	e230	254	151	1,320	1,020	584	375	236
26	172	190	e225	221	e230	250	143	1,430	894	603	404	214
27	180	205	e230	215	e240	256	144	1,680	800	620	424	209
28	169	220	e230	219	235	242	172	2,190	768	704	396	205
29	165	217	e235	223	---	227	232	2,610	750	709	390	206
30	189	220	e230	218	---	218	257	3,080	748	623	351	204
31	216	---	e225	219	---	215	---	3,450	---	546	334	---
TOTAL	4,769	5,980	6,939	6,792	6,559	7,025	6,473	22,718	50,730	19,610	12,955	9,282
MEAN	154	199	224	219	234	227	216	733	1,691	633	418	309
MAX	216	226	235	230	287	256	359	3,450	3,540	755	580	470
MIN	98	162	210	210	209	192	131	119	748	546	262	204
AC-FT	9,460	11,860	13,760	13,470	13,010	13,930	12,840	45,060	100,600	38,900	25,700	18,410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1889 - 2003, BY WATER YEAR (WY)

MEAN	370	377	370	348	344	353	421	1,102	2,263	1,456	845	445
MAX	1,195	620	623	609	781	711	1,120	2,667	4,286	5,541	2,134	1,411
(WY)	(1912)	(1924)	(1983)	(1983)	(1985)	(1989)	(1942)	(1984)	(1980)	(1957)	(1957)	(1909)
MIN	154	180	204	195	217	176	108	243	300	200	168	142
(WY)	(2003)	(1940)	(1940)	(1979)	(1978)	(1904)	(1940)	(1977)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1889 - 2003	
ANNUAL TOTAL	89,669		159,832			
ANNUAL MEAN	246		438		727	
HIGHEST ANNUAL MEAN					1,299	1995
LOWEST ANNUAL MEAN					280	2002
HIGHEST DAILY MEAN	472	May 17	3,540	Jun 2	9,480	Jun 29, 1957
LOWEST DAILY MEAN	98	Oct 14	98	Oct 14	69	May 13, 1959
ANNUAL SEVEN-DAY MINIMUM	118	Oct 12	118	Oct 12	87	Apr 9, 1940
MAXIMUM PEAK FLOW			3,680	May 31	a19,000	Aug 2, 1921
MAXIMUM PEAK STAGE			8.99	May 31	b,c10.70	Aug 2, 1921
ANNUAL RUNOFF (AC-FT)	177,900		317,000		526,300	
10 PERCENT EXCEEDS	380		760		1,690	
50 PERCENT EXCEEDS	222		230		412	
90 PERCENT EXCEEDS	153		162		237	

e Estimated.
a Site and datum then in use, from rating curve extended above 5,000 ft^3/s.
b From floodmark.
c Maximum gage height, 10.90 ft, Jun 18, 1995.

07096000 ARKANSAS RIVER AT CANON CITY, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1963 to September 1968, October 1970 to January 1977, April 1990 to March 1993, October 1993 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07096000

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1993 to current year.
WATER TEMPERATURE: October 1993 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Daily specific-conductance records are fair. Daily water-temperature records are good.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 739 microsiemens/cm, Aug. 16, 2000; minimum, 94 microsiemens/cm, June 9, 1996.
WATER TEMPERATURE: Maximum, 25.7°C, July 12, 2002; minimum, 0.0°C, on many days.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 570 microsiemens/cm, May 25; minimum, 112 microsiemens/cm, June 3-4.
WATER TEMPERATURE: Maximum, 23.6°C, July 19; minimum, 0.0 °C, on many days.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	299	292	295	283	277	280	294	282	288	284	272	278
2	295	284	288	286	277	280	293	281	287	288	280	284
3	286	281	283	284	279	280	295	283	289	289	277	283
4	290	284	286	285	279	282	298	286	293	290	277	282
5	290	286	287	287	279	284	299	291	294	279	265	269
6	287	282	284	291	282	287	302	289	294	265	253	259
7	288	282	285	298	285	292	301	286	292	260	251	256
8	295	284	288	304	291	297	303	286	294	270	260	264
9	302	291	296	303	296	299	308	288	297	277	270	273
10	302	295	299	299	284	290	309	295	301	295	275	285
11	299	292	296	284	277	282	306	293	301	294	280	288
12	304	295	298	288	276	283	305	294	299	293	282	288
13	309	300	304	288	277	282	306	292	299	288	278	285
14	311	302	307	300	279	290	303	286	295	286	281	284
15	311	301	306	292	279	288	295	282	288	289	273	283
16	308	301	305	285	276	280	289	285	287	286	276	281
17	307	299	303	286	275	279	292	286	288	291	283	286
18	308	299	304	292	276	285	297	287	292	303	284	298
19	310	303	307	292	282	288	300	291	295	308	287	298
20	308	296	301	291	280	285	313	300	308	299	278	290
21	302	296	299	298	279	290	323	311	316	288	276	283
22	301	293	297	302	284	293	327	310	318	288	275	283
23	298	287	291	292	281	286	318	301	310	287	275	281
24	294	289	291	291	278	285	316	306	311	287	278	283
25	291	284	287	289	279	284	316	304	310	288	282	284
26	286	281	283	289	279	283	324	309	317	286	281	283
27	285	278	282	290	278	285	333	307	321	288	283	285
28	286	278	283	294	279	287	323	302	313	290	284	288
29	285	275	281	293	281	288	309	289	300	290	286	287
30	284	274	280	289	280	285	294	274	286	287	282	284
31	284	279	281	---	---	---	284	277	281	291	283	287
MONTH	311	274	293	304	275	286	333	274	299	308	251	282

07096000 ARKANSAS RIVER AT CANON CITY, CO—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	294	288	290	291	282	287	316	307	312	276	258	263
2	291	288	289	293	282	287	319	309	314	276	254	271
3	289	285	287	299	288	293	341	315	326	282	270	277
4	286	279	283	301	291	295	340	325	332	275	265	273
5	290	278	284	305	290	297	330	319	325	287	264	270
6	297	278	290	306	293	298	334	323	328	273	263	268
7	318	297	309	304	295	299	343	330	334	270	262	267
8	319	308	314	309	295	303	341	329	335	272	263	268
9	320	312	316	309	301	305	340	331	336	274	264	268
10	324	299	314	309	300	305	341	328	335	273	262	267
11	308	292	301	313	302	308	329	318	322	269	258	264
12	306	287	298	318	305	311	322	305	316	272	260	265
13	290	270	282	318	309	314	310	298	305	267	259	263
14	276	263	267	324	307	315	302	293	297	266	256	262
15	290	264	275	325	305	317	297	276	290	279	256	262
16	300	290	296	338	312	318	290	277	281	256	250	254
17	304	295	300	346	323	331	282	276	279	252	230	239
18	305	298	301	328	313	321	297	277	284	234	225	228
19	302	291	298	327	313	321	290	282	287	241	219	227
20	306	299	302	346	308	319	287	277	283	242	200	232
21	310	298	303	353	332	337	293	272	280	233	206	221
22	314	299	306	355	334	343	285	271	278	275	232	250
23	310	295	303	363	345	351	283	270	278	392	275	317
24	306	295	301	368	343	354	276	260	267	563	326	429
25	315	300	307	367	346	353	265	252	262	570	347	472
26	311	281	299	356	345	350	274	262	268	419	332	367
27	294	274	286	347	332	340	268	256	262	440	305	407
28	290	285	288	343	327	332	268	260	263	305	142	222
29	---	---	---	332	316	321	287	260	280	142	135	140
30	---	---	---	323	309	314	283	266	272	156	119	131
31	---	---	---	314	307	310	---	---	---	127	119	122
MONTH	324	263	296	368	282	318	343	252	298	570	119	267
		JUNE			JULY			AUGUST			SEPTEMBER	
1	121	118	120	198	176	187	258	211	226	300	293	297
2	121	118	119	176	170	173	242	212	229	294	290	292
3	120	112	116	195	174	183	237	212	224	292	288	290
4	120	112	117	189	180	184	235	217	227	293	280	286
5	130	119	124	209	186	194	234	221	229	292	286	289
6	135	130	132	212	208	210	237	227	233	295	285	289
7	143	134	137	216	211	213	250	235	245	295	290	292
8	152	142	146	218	202	210	254	238	243	295	285	291
9	157	152	155	231	196	216	257	233	246	292	282	286
10	159	147	154	231	223	227	300	257	278	282	276	279
11	148	139	143	242	225	231	313	279	300	277	260	269
12	139	132	136	241	237	238	279	248	263	261	254	256
13	134	130	132	240	236	238	289	261	277	256	251	254
14	149	128	134	237	211	227	292	273	284	254	248	251
15	146	143	145	212	197	202	292	276	285	252	249	250
16	145	141	143	201	197	199	319	283	299	268	249	257
17	142	128	134	219	195	203	329	319	324	276	256	262
18	158	132	140	208	192	203	336	324	332	287	276	279
19	248	142	166	192	183	186	335	324	329	291	279	285
20	213	154	171	216	183	191	327	317	323	285	267	275
21	165	158	163	210	188	194	323	306	314	268	265	267
22	162	158	160	213	192	201	322	309	318	268	259	262
23	160	151	155	214	188	196	359	307	319	268	259	263
24	151	139	147	197	193	195	345	289	321	275	267	269
25	166	149	156	198	190	193	300	287	294	287	275	279
26	175	166	171	240	190	197	297	275	289	297	287	293
27	202	174	180	211	188	195	297	266	283	306	297	302
28	200	192	198	212	186	193	292	271	282	317	303	311
29	200	197	199	302	190	197	292	269	280	320	315	318
30	206	195	198	237	184	216	279	269	274	322	317	319
31	---	---	---	230	220	225	296	269	279	---	---	---
MONTH	248	112	150	302	170	204	359	211	279	322	248	280
YEAR	570	112	271									

07096000 ARKANSAS RIVER AT CANON CITY, CO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	14.8	11.8	13.5	3.1	1.6	2.3	2.1	0.3	1.1	0.5	0.0	0.1
2	13.5	10.8	12.0	4.2	1.8	3.0	2.3	0.6	1.4	0.4	0.0	0.1
3	12.7	10.0	11.0	5.8	3.3	4.2	2.0	1.4	1.7	0.4	0.0	0.1
4	12.3	9.2	10.7	5.4	3.5	4.3	2.4	1.3	1.9	0.6	0.0	0.2
5	13.1	9.7	11.2	5.3	3.4	4.2	2.3	0.9	1.5	0.6	0.0	0.2
6	12.9	10.2	11.5	5.5	3.0	4.1	1.5	0.1	0.6	1.0	0.1	0.3
7	14.0	10.3	12.1	5.5	3.2	4.4	1.0	0.0	0.3	1.2	0.0	0.3
8	14.4	10.7	12.5	6.4	3.8	5.1	1.1	0.0	0.3	1.7	0.0	0.4
9	15.0	11.5	13.2	8.0	5.5	6.5	0.5	0.0	0.1	0.8	0.0	0.1
10	14.7	11.0	12.9	6.3	4.4	5.4	0.5	0.0	0.1	0.3	0.0	0.0
11	14.1	10.5	12.3	4.8	2.6	3.7	0.2	0.0	0.1	0.1	0.0	0.1
12	13.4	10.5	11.5	3.5	1.2	2.3	0.1	0.0	0.1	0.6	0.0	0.1
13	12.3	8.3	10.2	4.2	2.0	3.2	0.2	0.0	0.1	0.9	0.0	0.2
14	12.6	8.5	10.1	4.9	3.4	4.1	0.5	0.0	0.1	0.9	0.0	0.2
15	11.4	7.6	9.4	4.7	2.8	3.9	0.8	0.0	0.2	1.5	0.0	0.3
16	10.8	7.4	8.9	3.3	1.6	2.4	1.0	0.0	0.2	0.7	0.0	0.1
17	10.7	6.7	8.6	3.8	1.9	2.7	1.4	0.0	0.5	0.5	0.0	0.1
18	11.2	7.3	9.0	3.9	2.0	2.8	0.8	0.0	0.3	0.1	0.0	0.0
19	10.6	7.3	8.9	3.6	1.8	2.6	0.5	0.0	0.1	0.2	0.0	0.0
20	10.7	7.3	8.8	4.0	2.0	2.9	0.2	0.0	0.1	0.7	0.0	0.2
21	10.6	7.4	8.8	4.4	2.3	3.3	0.2	0.0	0.0	1.0	0.0	0.2
22	9.9	7.4	8.5	4.6	2.7	3.5	0.1	0.0	0.0	0.2	0.0	0.0
23	7.8	6.1	6.8	4.5	2.9	3.6	0.1	0.0	0.1	0.9	0.0	0.2
24	6.9	5.6	6.2	3.5	1.5	2.6	0.1	0.0	0.0	2.3	0.1	1.3
25	8.4	5.7	7.0	2.5	1.2	1.7	0.1	0.0	0.1	3.3	1.2	2.1
26	8.5	6.5	7.6	1.7	0.0	1.0	0.1	0.0	0.1	2.8	0.7	1.8
27	9.0	7.0	8.1	0.6	0.0	0.1	0.2	0.0	0.1	4.5	2.2	3.3
28	10.2	7.5	8.6	0.7	0.0	0.2	0.1	0.0	0.1	4.4	2.4	3.4
29	8.5	5.1	7.1	1.3	0.1	0.5	0.1	0.0	0.1	4.3	2.7	3.3
30	5.1	3.1	4.2	1.5	0.0	0.5	0.4	0.0	0.1	4.0	2.0	3.1
31	3.1	2.0	2.6	---	---	---	0.3	0.0	0.1	4.8	2.5	3.8
MONTH	15.0	2.0	9.5	8.0	0.0	3.0	2.4	0.0	0.4	4.8	0.0	0.8
		FEBRUARY			MARCH			APRIL			MAY	
1	5.4	3.3	4.3	4.3	1.6	2.8	13.9	8.1	10.9	15.6	12.2	13.8
2	6.2	4.0	4.9	5.4	1.8	3.4	13.1	8.9	10.9	15.7	11.8	13.8
3	4.9	2.7	3.8	5.9	2.4	4.1	11.2	7.2	9.2	17.3	12.4	14.7
4	3.0	1.2	2.0	4.6	1.6	3.1	10.8	6.8	8.5	15.5	12.3	13.6
5	1.8	0.1	1.1	4.1	0.8	2.1	7.9	6.1	7.1	15.8	11.1	13.3
6	0.3	0.0	0.1	5.7	1.6	3.6	10.3	6.5	8.0	15.4	11.5	13.5
7	0.2	0.0	0.1	7.3	3.3	5.3	9.0	6.0	7.5	15.8	12.0	13.7
8	0.2	0.0	0.1	8.4	4.9	6.5	10.9	4.6	7.6	15.6	11.7	13.6
9	0.1	0.0	0.1	9.1	5.4	7.2	12.9	6.2	9.4	16.0	11.2	13.4
10	0.3	0.0	0.1	9.4	5.7	7.5	14.3	8.1	11.0	12.8	11.0	11.9
11	0.2	0.0	0.1	10.2	6.2	8.1	15.2	9.9	12.3	15.6	9.8	12.5
12	0.5	0.0	0.2	10.6	7.1	8.7	13.9	10.1	12.0	17.3	11.4	14.2
13	0.8	0.1	0.3	11.3	7.0	9.0	15.6	9.8	12.5	17.3	12.7	15.1
14	2.0	0.1	1.1	11.9	7.8	10.0	14.0	11.5	12.8	17.1	13.5	15.3
15	2.7	1.0	1.6	11.7	8.5	10.2	13.4	10.4	11.9	17.3	14.5	15.4
16	4.0	2.3	3.2	10.2	8.5	9.3	14.3	9.0	11.2	18.9	13.4	15.9
17	5.6	2.7	4.0	9.3	6.5	7.9	13.5	10.0	11.9	19.1	15.5	17.3
18	5.0	3.4	4.5	6.5	4.5	5.7	14.9	10.1	12.3	19.0	15.5	17.0
19	4.7	2.0	3.3	6.0	3.9	4.6	12.7	10.3	11.2	16.5	13.7	14.5
20	4.8	2.3	3.4	7.4	2.9	5.4	12.9	9.1	10.9	14.2	10.9	12.1
21	4.9	2.0	3.2	7.5	5.9	6.6	13.6	10.6	11.8	15.1	9.8	12.5
22	4.6	1.8	3.1	10.5	4.8	7.6	14.4	10.8	12.6	17.7	13.6	15.7
23	3.0	1.2	2.1	11.9	7.1	9.4	13.4	8.9	11.5	18.5	15.8	17.3
24	1.2	0.0	0.2	11.9	7.7	9.8	13.3	8.0	10.2	18.0	15.5	17.0
25	0.1	0.0	0.1	12.8	8.8	10.6	15.1	8.7	11.7	17.0	15.5	16.2
26	0.5	0.0	0.1	11.7	8.4	10.1	17.1	11.7	14.2	15.8	13.3	14.8
27	2.5	0.0	0.9	10.6	6.7	8.6	16.4	12.4	14.2	16.4	14.0	15.3
28	3.3	1.9	2.7	7.6	4.6	6.2	16.0	12.6	14.4	17.3	14.3	15.9
29	---	---	---	8.1	3.6	5.7	17.7	13.0	15.1	16.6	14.9	15.8
30	---	---	---	9.5	3.6	6.6	17.2	12.9	14.6	16.0	13.9	15.1
31	---	---	---	11.9	6.3	8.0	---	---	---	14.8	13.5	14.2
MONTH	6.2	0.0	1.8	12.8	0.8	6.9	17.7	4.6	11.3	19.1	9.8	14.7

07096000 ARKANSAS RIVER AT CANON CITY, CO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.5	12.6	13.5	20.4	18.1	19.4	20.2	18.3	19.3	21.6	17.9	19.4
2	15.3	12.3	13.8	21.2	18.1	19.8	22.1	18.5	20.1	22.0	18.1	19.9
3	15.7	13.1	14.5	21.9	18.4	20.3	23.0	19.6	21.2	19.8	17.4	18.8
4	15.7	14.1	15.0	21.6	18.6	20.1	22.4	20.2	21.3	20.1	15.9	18.0
5	15.1	12.8	13.5	21.3	18.8	20.1	22.8	19.9	21.3	20.3	17.3	18.8
6	15.0	11.9	13.3	21.1	18.6	19.8	22.3	19.6	21.0	21.2	18.0	18.9
7	14.0	11.9	12.8	21.0	16.6	18.9	21.9	19.6	20.7	18.5	17.3	18.0
8	16.5	12.6	14.4	21.8	17.5	19.7	21.8	19.8	20.8	19.3	15.7	17.5
9	16.8	14.8	15.9	22.0	18.8	20.4	22.0	20.0	21.0	17.9	15.8	17.0
10	16.1	14.6	15.5	22.7	18.2	20.5	21.7	19.8	20.7	16.6	14.2	15.3
11	17.0	14.1	15.6	21.4	18.5	20.2	22.0	19.2	20.4	14.9	12.3	13.7
12	17.3	14.7	16.2	21.5	18.6	20.1	22.3	19.3	20.7	16.0	12.7	14.3
13	16.8	14.5	15.2	21.6	18.5	20.1	22.6	19.5	21.0	15.6	11.5	13.4
14	16.2	13.3	14.7	21.9	18.4	20.1	22.2	18.9	20.5	14.1	10.0	12.1
15	18.0	14.6	16.4	22.0	18.4	20.0	22.3	18.6	20.4	15.5	12.1	13.8
16	17.3	15.5	16.5	22.0	18.4	20.1	22.3	18.3	20.2	16.2	13.1	14.7
17	16.3	13.9	15.3	22.5	18.5	20.4	21.7	17.9	19.7	17.3	14.1	15.5
18	15.9	13.7	15.0	23.0	19.3	21.2	20.3	18.0	19.2	15.2	12.7	13.9
19	16.8	13.8	15.6	23.6	20.5	21.7	21.2	17.0	19.0	15.1	11.3	13.2
20	16.4	14.3	15.5	22.1	20.0	20.8	22.4	18.4	20.3	15.3	11.9	13.6
21	17.1	13.9	15.7	22.5	18.8	20.5	21.9	19.1	20.7	16.1	12.7	14.3
22	18.2	14.4	16.6	22.4	19.3	20.7	21.7	18.9	20.0	15.9	12.8	14.3
23	18.3	15.0	17.0	20.6	19.1	19.9	21.4	18.4	19.5	16.5	13.1	14.7
24	18.1	15.3	16.9	22.5	19.0	20.6	22.1	18.2	20.0	16.0	12.9	14.4
25	18.3	15.4	17.0	23.1	20.3	21.6	21.0	19.1	19.9	16.8	12.5	14.6
26	18.9	15.8	17.5	23.3	20.2	21.5	20.5	18.7	19.5	16.8	13.0	14.8
27	19.8	16.7	18.3	21.3	19.8	20.4	21.2	17.7	19.3	16.5	13.2	14.6
28	20.9	17.3	18.9	20.3	18.8	19.7	20.0	18.8	19.6	15.9	12.5	14.1
29	19.7	17.1	18.5	21.2	15.6	19.6	20.4	17.0	18.6	15.6	11.5	13.5
30	21.1	17.8	19.4	21.9	15.4	19.4	18.7	17.2	17.8	15.2	12.0	13.4
31	---	---	---	20.9	19.0	19.9	18.2	16.7	17.5	---	---	---
MONTH	21.1	11.9	15.8	23.6	15.4	20.2	23.0	16.7	20.0	22.0	10.0	15.4
YEAR	23.6	0.0	10.0									

07096250 FOURMILE CREEK BELOW CRIPPLE CREEK NEAR VICTOR, CO

LOCATION (REVISED).--Lat 38°39'50", long 105°13'39", in SW¼SE¼ sec.9, T.16 S., R.70 W., Teller County, Hydrologic Unit 11020002, on left bank 500 ft from Teller County Route 88, 0.2 mi downstream from Cripple Creek, and 5.5 mi southwest of Victor.

DRAINAGE AREA.--272 mi^2.

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=07096250

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,870 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by small diversions for irrigation, flows from Cripple Creek sewage treatment plant, and releases from Wrights Reservoir.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.23	0.85	0.56	0.91	0.20	0.55	17	12	18	26	11	5.6
2	0.40	0.92	0.55	0.86	0.20	0.61	24	13	19	24	14	5.5
3	0.33	1.2	0.56	0.67	0.18	0.61	26	14	26	23	15	5.9
4	0.28	0.98	0.52	0.42	0.17	0.55	20	15	31	21	13	6.2
5	0.27	0.81	0.42	0.35	0.20	0.58	13	14	41	21	11	5.4
6	0.28	0.78	0.42	0.21	0.31	0.56	8.9	13	37	22	10	6.5
7	0.29	0.81	0.42	0.15	0.30	0.60	6.4	12	35	23	10	8.7
8	0.25	0.93	0.44	0.15	0.48	0.64	4.9	11	32	23	9.8	9.0
9	0.25	1.1	0.38	0.15	0.52	0.72	7.7	11	30	21	11	7.1
10	0.26	1.2	0.36	0.16	0.51	0.81	10	11	30	20	15	6.6
11	0.25	0.82	0.33	0.19	0.38	1.0	12	11	29	18	13	6.3
12	0.27	0.65	0.28	0.20	0.38	1.2	9.5	10	27	19	13	6.1
13	0.33	0.82	0.26	0.19	0.46	1.4	8.3	10	30	23	11	6.2
14	0.33	0.88	0.27	0.14	0.54	1.6	9.6	11	30	22	11	6.6
15	0.32	0.83	0.31	0.15	0.61	1.7	7.9	10	28	22	9.8	5.9
16	0.31	0.61	0.33	0.15	0.56	1.4	6.9	15	28	24	9.4	5.3
17	0.31	0.69	0.30	0.18	0.60	1.2	8.7	9.4	35	23	7.3	5.0
18	0.31	0.65	0.24	0.21	0.63	1.2	10	8.2	41	22	6.0	5.0
19	0.32	0.58	0.21	0.25	0.63	1.0	11	9.8	47	16	5.6	5.0
20	0.35	0.62	0.22	0.28	0.54	1.2	11	15	51	13	4.9	4.9
21	0.34	0.61	0.22	0.28	0.55	2.2	12	14	46	12	4.5	4.7
22	0.34	0.62	0.19	0.23	0.58	2.0	13	12	40	10	4.3	4.5
23	0.44	0.63	0.17	0.23	0.51	3.4	14	11	36	10	7.8	4.3
24	0.44	0.54	0.17	0.20	0.44	5.5	16	10	33	10	8.0	4.2
25	0.38	0.58	0.25	0.21	0.56	8.3	15	12	29	10	6.4	4.2
26	0.37	0.35	0.57	0.23	0.52	e8.4	13	14	35	11	6.7	4.1
27	0.55	0.39	0.62	0.27	0.51	e8.0	11	12	33	13	5.5	4.2
28	1.0	0.48	0.59	0.25	0.54	6.9	9.5	9.7	30	16	6.7	4.3
29	1.2	0.56	0.82	0.21	---	5.2	11	11	29	16	7.8	4.1
30	0.99	0.54	1.1	0.23	---	4.7	12	12	27	13	6.7	4.1
31	0.88	---	1.2	0.20	---	5.2	---	17	---	12	6.1	---
TOTAL	12.87	22.03	13.28	8.51	12.61	78.93	359.3	370.1	983	559	281.3	165.5
MEAN	0.42	0.73	0.43	0.27	0.45	2.55	12.0	11.9	32.8	18.0	9.07	5.52
MAX	1.2	1.2	1.2	0.91	0.63	8.4	26	17	51	26	15	9.0
MIN	0.23	0.35	0.17	0.14	0.17	0.55	4.9	8.2	18	10	4.3	4.1
AC-FT	26	44	26	17	25	157	713	734	1,950	1,110	558	328

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2003, BY WATER YEAR (WY)

MEAN	12.9	9.83	7.17	6.64	6.11	7.94	19.1	52.9	42.2	25.3	26.8	17.1
MAX	21.5	21.8	16.6	15.4	12.1	17.1	40.2	149	128	75.8	101	44.9
(WY)	(2000)	(1995)	(1996)	(1996)	(2000)	(2000)	(1994)	(1994)	(1995)	(1995)	(1999)	(1998)
MIN	0.42	0.73	0.43	0.27	0.45	2.55	9.11	1.45	11.8	11.2	0.19	0.25
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(1996)	(1993)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1993 - 2003	
ANNUAL TOTAL	1,762.14		2,866.43			
ANNUAL MEAN	4.83		7.85		19.6	
HIGHEST ANNUAL MEAN					38.2	1995
LOWEST ANNUAL MEAN					6.54	2002
HIGHEST DAILY MEAN	34	Jun 26	51	Jun 20	373	May 11, 1994
LOWEST DAILY MEAN	0.00	Sep 6	0.14	Jan 14	a0.00	Sep 6, 2002
ANNUAL SEVEN-DAY MINIMUM	0.05	Sep 2	0.17	Jan 8	0.05	Sep 2, 2002
MAXIMUM PEAK FLOW			183	Jun 18	b647	Jun 17, 1995
MAXIMUM PEAK STAGE			3.82	Jun 18	4.62	Jun 17, 1995
ANNUAL RUNOFF (AC-FT)	3,500		5,690		14,180	
10 PERCENT EXCEEDS	11		23		45	
50 PERCENT EXCEEDS	2.0		4.3		11	
90 PERCENT EXCEEDS	0.22		0.25		3.9	

e Estimated.
a Also occurred Sept. 7-8, 2002.
b From rating curve extended above 187 ft^3/s.

07097000 ARKANSAS RIVER AT PORTLAND, CO

LOCATION.--Lat 38°23'18", long 105°00'56", in NE¼NE¼ sec.20, T.19 S., R.68 W., Fremont County, Hydrologic Unit 11020002, on right bank at upstream side of bridge on State Highway 120 at Portland, and 1 mi downstream from Hardscrabble Creek.

DRAINAGE AREA.--4,024 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1939 to September 1952, October 1974 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07097000

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,021.59 ft above NGVD of 1929. Prior to Oct. 1, 1974, at site 400 ft downstream at datum 0.03 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 21, 1965, reached a discharge of 23,900 ft^3/s, from rating curve extended above 7,400 ft^3/s on basis of slope-area measurement of peak flow, gage height, 11.85 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	221	237	242	184	217	205	198	3,660	850	590	296
2	169	240	232	227	188	211	244	170	3,740	862	596	255
3	205	232	232	224	193	208	366	156	3,460	806	569	256
4	221	226	234	237	200	191	356	165	2,980	747	548	273
5	222	218	226	250	186	200	373	159	2,560	720	536	269
6	198	217	228	258	186	198	323	155	2,280	719	464	285
7	187	213	229	252	e165	197	311	157	1,850	695	478	279
8	171	228	215	228	e161	197	314	157	1,450	656	523	339
9	173	227	232	212	e150	206	310	142	1,220	667	467	372
10	171	227	231	200	e173	193	304	150	1,360	680	540	354
11	154	228	204	203	e177	194	254	154	1,650	661	581	466
12	135	212	205	209	197	188	251	151	1,770	695	594	470
13	139	207	198	208	209	186	264	144	1,900	669	496	442
14	130	221	214	206	230	189	237	150	2,060	670	372	456
15	119	239	220	203	222	182	221	162	1,930	681	281	421
16	118	227	220	196	206	183	266	245	1,900	655	258	403
17	123	209	214	174	196	211	215	317	2,060	658	236	323
18	134	201	215	169	195	264	179	359	1,870	629	250	277
19	128	208	205	176	213	252	186	526	1,770	610	249	298
20	140	209	e168	183	200	207	189	855	1,790	638	283	325
21	149	204	e177	192	198	213	171	818	1,880	641	276	302
22	149	209	e198	200	198	212	168	648	1,710	656	250	296
23	168	216	e225	192	207	209	164	751	1,680	635	248	298
24	184	224	e230	191	e188	223	190	1,420	1,510	601	351	268
25	199	227	e220	177	e170	237	180	1,540	1,180	600	320	238
26	191	230	e225	173	e198	221	171	1,630	1,000	624	392	223
27	202	216	e215	165	e203	230	171	1,740	918	675	390	210
28	191	206	256	169	210	222	187	2,230	882	810	378	211
29	192	226	279	178	---	209	195	2,690	857	772	367	213
30	206	227	268	184	---	199	254	3,190	855	724	345	200
31	217	---	234	186	---	195	---	3,600	---	582	331	---
TOTAL	5,220	6,595	6,886	6,264	5,403	6,444	7,219	24,929	55,732	21,288	12,559	9,318
MEAN	168	220	222	202	193	208	241	804	1,858	687	405	311
MAX	222	240	279	258	230	264	373	3,600	3,740	862	596	470
MIN	118	201	168	165	150	182	164	142	855	582	236	200
AC-FT	10,350	13,080	13,660	12,420	10,720	12,780	14,320	49,450	110,500	42,220	24,910	18,480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2003, BY WATER YEAR (WY)

MEAN	384	414	377	358	349	363	487	1,175	2,433	1,531	914	440
MAX	1,083	748	693	626	774	683	1,869	2,680	4,429	4,472	2,380	1,008
(WY)	(1985)	(1985)	(1983)	(1983)	(1985)	(1989)	(1942)	(1984)	(1980)	(1995)	(1984)	(1982)
MIN	136	191	212	199	162	147	135	245	292	201	144	134
(WY)	(1978)	(1978)	(1978)	(1979)	(1978)	(1978)	(1981)	(1977)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1939 - 2003	
ANNUAL TOTAL	85,141		167,857			
ANNUAL MEAN	233		460		775	
HIGHEST ANNUAL MEAN					1,387	1995
LOWEST ANNUAL MEAN					264	2002
HIGHEST DAILY MEAN	673	Jul 6	3,740	Jun 2	7,460	Jun 8, 1942
LOWEST DAILY MEAN	91	Sep 18	118	Oct 16	66	Oct 28, 1977
ANNUAL SEVEN-DAY MINIMUM	119	Sep 16	127	Oct 13	76	Oct 24, 1977
MAXIMUM PEAK FLOW			3,820	Jun 2	a21,100	Jun 5, 1949
MAXIMUM PEAK STAGE			5.93	Jun 2	12.18	Jun 5, 1949
ANNUAL RUNOFF (AC-FT)	168,900		332,900		561,300	
10 PERCENT EXCEEDS	344		870		1,840	
50 PERCENT EXCEEDS	224		227		447	
90 PERCENT EXCEEDS	134		169		219	

e Estimated.
a From rating curve extended above 5,300 ft^3/s.

07097000 ARKANSAS RIVER AT PORTLAND, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1970 to September 1971, October 1975 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07097000

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1979 to September 1982, observer once-daily measurements; November 1982 to current year.
WATER TEMPERATURE: October 1979 to September 1982, observer once-daily measurements; November 1982 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1982, with satellite telemetry.

REMARKS.--Daily specific-conductance records are good. Daily water-temperature records are good. Daily data that are not published are either missing or of unacceptable quality. Reported values for specific conductance may not be representative of the stream during flash floods. Periodic water-quality data available, Feb. 1977 to Sept. 1995, under National Stream-Quality Accounting Network (NASQAN) for this site.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,650 microsiemens/cm, Aug. 9, 2003; minimum, 111 microsiemens/cm, June 22, 1984 (minimum daily mean).
WATER TEMPERATURE: Maximum, 29.5°C, July 15, 2002; minimum, 0.0°C, on many days.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,650 microsiemens/cm, Aug. 9; minimum, 130 microsiemens/cm, June 1.
WATER TEMPERATURE: Maximum, 26.4°C, July 25, Aug. 4; minimum, 0.0°C, on many days.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	597	555	576	515	480	494	497	456	481	---	---	---
2	585	526	557	500	466	479	492	451	477	---	---	---
3	533	493	516	500	462	478	485	454	471	473	458	467
4	506	477	489	486	458	473	490	450	467	462	436	452
5	509	473	486	522	467	487	494	462	478	461	414	438
6	525	476	500	521	474	490	488	459	477	446	411	424
7	524	483	506	526	440	483	---	---	---	444	402	425
8	567	508	526	489	420	465	---	---	---	461	413	433
9	587	524	548	496	439	476	971	440	515	488	433	449
10	555	501	532	494	437	468	489	445	467	490	423	458
11	614	521	564	487	438	462	525	439	471	491	407	462
12	613	548	595	500	446	468	526	477	500	491	437	463
13	611	507	584	512	455	487	512	464	488	500	442	463
14	634	589	613	512	437	488	503	461	477	467	441	454
15	652	584	630	516	468	486	494	458	472	470	448	458
16	659	602	635	516	456	484	484	447	466	498	421	455
17	664	558	642	520	463	490	471	457	465	529	449	483
18	637	562	601	526	470	498	476	453	463	529	474	498
19	638	553	597	519	470	498	481	455	468	565	461	497
20	601	548	585	530	473	499	530	465	488	552	460	487
21	599	548	573	517	480	504	532	485	505	548	438	473
22	627	535	583	---	---	---	535	463	491	494	440	457
23	595	521	549	---	---	---	796	496	527	483	441	463
24	---	---	---	---	---	---	520	472	495	518	431	475
25	525	499	513	---	---	---	500	468	482	510	461	488
26	533	497	515	500	473	485	517	486	495	537	461	483
27	551	491	517	517	462	489	538	504	518	537	469	492
28	544	505	526	515	484	499	537	496	509	502	462	483
29	541	520	529	515	477	494	498	464	478	508	453	475
30	523	499	512	515	473	488	475	430	456	491	437	472
31	507	478	492	---	---	---	---	---	---	484	442	464
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

07097000 ARKANSAS RIVER AT PORTLAND, CO—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	485	442	467	514	454	472	552	484	519	572	479	508
2	482	441	461	533	460	481	512	474	493	613	526	562
3	468	444	455	532	428	493	514	439	463	668	543	600
4	468	432	453	521	443	496	468	431	457	632	526	594
5	472	451	461	504	457	482	445	422	434	634	581	606
6	482	445	459	518	464	485	456	426	440	659	569	612
7	548	451	481	519	468	488	467	425	450	650	574	601
8	556	474	521	499	466	484	456	444	450	629	594	611
9	---	---	---	504	465	480	463	427	451	698	603	650
10	---	---	---	498	471	484	479	440	455	663	544	624
11	546	468	494	502	469	485	499	460	475	652	590	621
12	516	448	478	502	482	490	488	461	474	651	604	624
13	498	431	464	508	481	494	532	454	477	674	615	639
14	473	410	437	515	485	499	475	437	457	673	585	625
15	449	421	436	547	468	510	492	465	476	653	548	613
16	477	436	451	527	492	505	465	418	443	600	496	535
17	500	452	465	527	453	495	511	434	459	520	466	479
18	502	461	475	668	492	585	579	488	523	474	418	452
19	491	437	465	659	514	558	581	493	531	418	339	389
20	499	464	482	631	554	585	587	506	544	341	283	311
21	509	474	491	601	532	555	615	533	563	307	280	291
22	521	455	493	591	497	556	589	556	570	330	297	308
23	513	458	481	560	522	540	613	538	566	317	285	299
24	486	463	475	615	503	532	557	513	524	647	253	327
25	523	466	490	574	492	530	565	523	541	335	225	255
26	521	454	470	566	502	521	587	532	563	229	215	223
27	513	446	470	551	480	522	569	539	549	230	199	217
28	517	457	476	530	508	520	586	514	551	200	171	185
29	---	---	---	528	510	520	575	488	520	178	163	170
30	---	---	---	536	509	521	521	468	490	256	152	166
31	---	---	---	529	475	511	---	---	---	160	145	152
MONTH	---	---	---	668	428	512	615	418	497	698	145	447
		JUNE			JULY			AUGUST			SEPTEMBER	
1	148	130	143	295	269	283	339	319	331	522	477	503
2	146	137	142	271	261	267	337	318	329	533	482	505
3	148	137	142	277	262	270	343	324	332	787	462	511
4	---	---	---	277	265	273	340	327	331	511	457	479
5	175	150	161	278	264	273	339	327	333	477	460	468
6	179	167	175	292	271	282	364	337	352	485	343	459
7	198	178	187	309	288	298	368	342	354	493	371	464
8	224	198	211	311	287	297	356	335	342	466	425	444
9	242	217	226	299	278	291	1,650	335	422	439	411	424
10	431	209	236	307	290	298	451	322	354	440	417	428
11	224	191	201	308	295	303	332	300	313	417	381	397
12	193	159	181	316	303	312	333	294	314	395	368	380
13	178	153	170	321	306	317	355	310	326	391	371	380
14	176	170	173	320	303	315	378	355	360	389	373	380
15	---	---	---	543	295	340	404	376	393	400	369	384
16	---	---	---	393	328	351	411	384	400	410	377	389
17	357	169	188	344	313	328	---	---	---	453	399	417
18	264	177	198	341	327	332	480	446	464	469	422	437
19	893	222	280	332	320	326	483	436	456	468	422	440
20	304	225	252	336	310	321	462	402	428	447	405	425
21	242	209	218	326	310	317	441	403	422	443	396	418
22	212	205	209	324	305	314	445	409	425	434	389	418
23	219	197	208	326	302	315	472	415	440	442	388	414
24	210	188	202	322	315	318	438	391	418	436	392	420
25	246	209	223	316	306	312	442	393	428	481	421	443
26	263	244	253	429	299	317	519	392	429	497	442	466
27	287	261	270	344	305	319	445	396	417	506	429	480
28	290	272	282	617	287	334	412	390	399	528	455	494
29	287	280	283	316	296	306	470	410	440	530	464	501
30	298	281	288	342	276	319	497	439	463	531	469	508
31	---	---	---	345	325	335	493	454	475	---	---	---
MONTH	---	---	---	617	261	309	---	---	---	787	343	443

07097000 ARKANSAS RIVER AT PORTLAND, CO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.2	11.8	15.2	5.8	3.0	4.2	5.8	0.4	3.3	---	---	---
2	15.4	12.3	13.7	7.0	3.5	5.2	6.4	2.4	4.4	---	---	---
3	16.7	11.3	13.3	8.2	4.3	6.1	4.2	2.8	3.4	5.4	1.4	3.4
4	15.9	9.8	13.0	7.2	4.1	5.7	4.6	2.9	3.7	5.2	2.3	3.5
5	15.9	10.4	13.2	8.5	3.9	6.2	5.3	2.3	3.8	4.0	1.5	2.9
6	16.5	10.6	13.6	9.1	3.7	6.5	5.1	1.3	2.7	5.4	2.7	3.9
7	17.0	10.3	13.7	8.3	4.1	6.3	---	---	---	5.0	0.9	3.0
8	17.6	11.3	14.5	9.1	5.3	7.3	---	---	---	5.6	1.4	3.6
9	18.0	12.2	15.2	11.2	6.6	8.8	4.6	1.5	3.2	3.5	0.6	2.3
10	18.0	12.3	15.2	9.2	5.4	7.2	3.9	0.0	2.0	2.6	0.0	1.2
11	17.7	11.7	14.8	7.5	4.2	5.7	3.9	0.0	2.2	2.2	0.0	1.1
12	15.9	11.4	13.5	7.1	2.6	4.9	3.4	0.3	1.9	4.7	1.1	3.0
13	15.1	9.1	12.2	8.1	3.8	6.2	4.4	0.0	2.3	4.9	0.9	3.1
14	15.0	9.6	12.4	8.1	4.9	6.8	4.8	0.7	2.9	3.7	0.7	2.5
15	14.2	8.4	11.5	7.5	4.9	6.1	4.4	1.8	3.1	4.2	0.3	2.4
16	13.6	8.2	11.0	6.9	2.9	5.2	4.4	1.1	3.0	3.3	0.0	1.6
17	13.5	7.5	10.6	8.0	3.8	6.0	4.8	1.8	3.4	3.6	0.0	1.6
18	14.5	8.5	11.5	7.6	3.7	5.8	3.4	0.7	2.2	2.7	0.0	1.1
19	13.5	8.0	11.0	7.4	2.9	5.3	2.9	0.0	1.4	5.1	0.0	2.4
20	14.0	8.2	11.2	8.2	3.7	5.9	1.7	0.0	0.5	5.4	0.7	3.3
21	13.5	8.5	10.5	8.4	3.6	5.3	2.4	0.0	0.9	4.2	1.0	2.9
22	12.7	8.0	10.4	---	---	---	1.5	0.0	0.3	2.0	0.4	1.2
23	9.7	7.6	8.4	---	---	---	0.0	0.0	0.0	3.4	0.2	1.8
24	---	---	---	---	---	---	0.0	0.0	0.0	4.5	0.3	2.6
25	11.5	6.9	9.2	---	---	---	0.0	0.0	0.0	5.9	1.3	3.6
26	10.8	6.8	9.1	4.6	1.5	2.9	0.2	0.0	0.0	6.6	1.4	4.2
27	11.9	7.8	10.1	4.2	0.0	2.2	1.8	0.0	0.7	8.0	3.5	5.9
28	12.6	7.6	10.2	4.8	0.0	2.7	2.9	0.2	1.7	7.8	3.9	6.0
29	10.0	5.9	8.5	6.2	2.3	4.2	3.9	0.4	2.1	7.4	3.1	5.4
30	6.2	4.7	5.5	4.9	1.4	3.3	3.2	0.0	1.6	7.0	2.7	4.9
31	5.0	3.7	4.4	---	---	---	---	---	---	7.8	4.0	5.9
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	8.4	4.1	6.3	8.8	3.0	5.6	16.4	9.3	13.0	18.2	12.3	15.3
2	8.6	4.9	6.6	9.1	3.2	5.9	16.5	10.0	12.9	18.2	12.1	15.3
3	7.4	3.9	5.5	9.7	2.9	6.5	14.7	8.7	11.4	19.6	12.4	15.6
4	6.3	1.3	4.0	6.7	2.7	4.7	12.5	7.4	10.0	18.5	12.0	14.7
5	4.2	1.5	3.2	7.7	1.9	4.4	9.9	7.2	8.6	18.8	10.9	14.5
6	3.5	0.3	1.5	9.8	2.5	6.1	11.5	6.6	8.7	19.1	12.0	15.2
7	1.3	0.0	0.2	11.4	4.1	7.9	12.1	7.6	9.6	19.1	12.8	15.6
8	1.5	0.0	0.4	12.1	5.6	8.9	13.5	6.0	9.7	18.2	11.4	14.8
9	1.0	0.0	0.2	12.7	5.5	9.2	15.6	7.1	11.3	19.3	11.6	15.1
10	3.4	0.0	1.3	13.6	6.3	9.9	17.3	9.1	13.1	16.7	11.4	13.8
11	4.5	0.0	2.3	14.2	6.7	10.5	18.2	10.4	14.3	18.5	9.0	13.9
12	6.0	0.0	3.2	14.8	7.8	11.5	17.3	11.1	14.3	20.0	11.1	15.8
13	5.9	2.5	4.3	15.6	8.2	12.0	18.9	10.8	14.8	19.1	12.4	15.9
14	7.7	3.0	5.3	16.0	9.0	12.4	16.5	11.7	14.5	20.7	13.0	17.1
15	5.5	3.4	4.3	16.3	9.6	12.9	15.2	10.7	13.1	18.3	14.3	15.7
16	5.5	2.4	3.9	13.6	9.9	11.8	16.9	8.4	12.6	22.0	13.0	17.4
17	8.8	3.1	6.0	11.3	8.8	9.8	16.9	9.9	13.3	21.6	15.0	18.5
18	6.8	4.7	5.9	8.9	6.9	7.8	17.2	10.0	13.6	19.0	15.3	17.4
19	8.2	1.4	5.5	7.4	4.2	6.1	13.9	10.7	12.1	17.1	13.0	15.2
20	7.5	1.4	4.6	12.2	5.1	9.0	16.4	9.7	12.9	13.6	11.6	12.7
21	8.7	2.8	5.4	9.8	7.8	8.8	17.0	11.0	13.8	17.4	10.1	13.5
22	7.6	2.8	5.2	14.2	6.3	10.2	18.1	11.6	14.5	20.6	12.9	16.6
23	5.5	2.1	3.8	15.1	8.2	11.7	15.3	9.4	12.4	21.2	15.4	18.1
24	3.8	0.0	1.4	14.7	8.9	11.7	17.3	8.4	12.5	19.9	8.4	16.2
25	2.3	0.0	0.8	16.5	10.0	13.0	18.4	10.1	14.3	18.7	16.1	16.7
26	4.1	0.0	2.0	14.6	9.3	12.0	19.6	11.2	15.2	17.3	14.6	16.0
27	6.9	0.8	3.8	12.5	7.8	9.8	18.8	12.0	15.4	18.4	14.6	16.3
28	6.8	2.1	4.4	12.2	6.0	8.7	19.8	13.1	16.0	18.3	15.3	16.7
29	---	---	---	10.9	4.6	7.7	19.8	12.2	15.9	18.0	15.0	16.3
30	---	---	---	12.9	5.1	9.0	19.4	12.9	16.2	17.4	13.0	15.5
31	---	---	---	15.3	7.4	9.9	---	---	---	16.5	14.8	15.3
MONTH	8.8	0.0	3.6	16.5	1.9	9.2	19.8	6.0	13.0	22.0	8.4	15.7

07097000 ARKANSAS RIVER AT PORTLAND, CO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.1	13.3	14.2	23.8	18.6	20.9	23.6	18.6	20.9	19.5	13.9	16.6
2	15.7	13.4	14.6	24.2	18.5	21.2	24.7	18.6	21.3	23.6	14.7	18.5
3	16.7	14.0	15.3	24.9	19.1	21.8	25.7	19.4	22.1	21.4	18.5	19.9
4	---	---	---	24.7	19.4	21.5	26.4	20.7	23.2	23.3	16.4	19.8
5	15.5	13.4	14.3	24.5	18.8	21.1	25.7	20.2	22.8	24.1	17.5	20.6
6	16.2	12.7	14.3	22.9	18.3	20.5	25.8	20.0	22.5	23.0	15.9	19.7
7	14.7	12.7	13.4	22.7	17.9	20.1	25.3	19.5	22.2	21.4	16.5	19.3
8	18.1	12.7	15.2	24.1	17.9	20.9	24.8	20.1	22.3	22.5	16.8	19.6
9	19.0	15.1	16.7	24.3	18.7	21.3	24.6	20.2	22.3	19.7	16.9	18.3
10	19.2	15.4	16.6	25.1	18.4	21.6	25.3	19.9	22.3	19.9	15.5	17.4
11	19.1	14.4	16.8	24.2	19.1	21.7	25.3	20.0	22.3	19.2	13.6	16.1
12	18.2	15.9	17.2	24.0	19.4	21.6	25.2	19.5	22.0	19.8	13.0	16.2
13	17.7	15.0	16.3	24.6	19.3	21.8	25.4	19.8	22.3	16.6	12.5	14.2
14	17.5	14.2	15.8	24.3	19.2	21.7	25.2	18.7	21.9	17.0	10.9	13.7
15	---	---	---	24.7	19.1	21.3	25.7	18.7	22.1	18.8	12.2	15.4
16	---	---	---	25.4	19.5	21.9	25.8	18.9	21.0	20.0	13.4	16.5
17	18.4	9.6	15.3	25.3	19.5	22.1	---	---	---	20.1	14.4	16.9
18	17.5	10.7	16.2	26.0	19.9	22.8	24.1	17.9	20.6	17.9	13.1	15.4
19	18.7	15.4	16.6	26.2	20.8	23.0	24.8	17.7	21.2	18.1	11.5	14.8
20	17.7	14.5	16.5	24.7	20.3	22.2	25.8	18.9	22.2	18.3	12.5	15.4
21	18.8	14.8	16.7	25.2	19.4	22.1	25.0	19.2	22.2	19.4	13.3	16.4
22	19.7	15.7	17.5	25.1	19.8	22.1	26.0	19.3	22.4	19.2	13.2	16.2
23	19.7	16.6	18.1	23.1	19.6	21.2	26.1	18.9	22.0	19.9	13.5	16.7
24	20.3	16.5	18.2	25.7	18.8	22.0	25.5	18.5	21.8	19.1	13.8	16.4
25	20.6	16.4	18.2	26.4	20.4	22.9	23.6	19.4	21.4	19.8	13.2	16.4
26	21.4	16.8	18.8	26.3	20.4	22.9	23.2	18.7	20.7	19.8	13.6	16.8
27	22.8	17.0	19.6	23.6	20.5	21.8	24.5	18.1	21.1	19.1	13.7	16.4
28	23.6	17.4	20.1	21.6	19.3	20.4	21.7	19.4	20.5	18.3	12.6	15.5
29	21.9	17.8	19.7	23.8	18.7	20.9	19.8	13.4	17.9	18.3	12.2	15.3
30	23.7	18.0	20.7	24.1	17.3	21.0	17.1	14.9	15.8	17.6	12.7	15.0
31	---	---	---	22.7	19.1	20.8	17.1	14.4	15.4	---	---	---
MONTH	---	---	---	26.4	17.3	21.6	---	---	---	24.1	10.9	16.8

07099050 BEAVER CREEK ABOVE UPPER BEAVER CEMETERY NEAR PENROSE, CO

LOCATION.--Lat 38°33'42", long 105°01'17", in NW¼NE¼ sec.20, T.17 S., R.68 W., Fremont County, Hydrologic Unit 11020002, on left bank 40 ft upstream from bridge on Fremont County Road 132, 1 mi downstream from Banta Gulch, 1.3 mi northeast of Upper Beaver Cemetery, and 9.2 mi north of Penrose.

DRAINAGE AREA.--122 mi^2.

PERIOD OF RECORD.--March 1991 to current year (seasonal records only). For a complete listing of historical data available for this site see, http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07099050

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,020 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for Oct. 21-23, 25-28, Nov. 4-7, July 20-21, and estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation, and diversions for municipal use by the City of Colorado Springs.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 659 ft^3/s, June 10, 1997, gage height, 5.57 ft, from rating curve extended above 602 ft^3/s; maximum gage height, 6.70 ft, Sept. 4, 1991; minimum daily, 0.75 ft^3/s, Sept. 8, 2002.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 113 ft^3/s, June 20, gage height, 3.74 ft; minimum daily, 0.93 ft^3/s, Oct. 22.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.8	---	---	---	2.9	6.8	14	34	39	11	10
2	1.8	1.8	---	---	---	3.0	9.2	13	33	36	11	9.3
3	2.0	2.4	---	---	---	3.2	9.9	13	37	33	10	9.7
4	1.7	1.6	---	---	---	3.2	8.9	12	63	35	11	10
5	1.6	1.8	---	---	---	3.0	7.7	11	66	34	10	9.4
6	1.6	1.7	---	---	---	3.4	6.9	10	65	38	10	17
7	1.5	1.9	---	---	---	3.6	6.3	9.4	64	44	9.8	20
8	1.1	e2.0	---	---	---	3.6	5.6	8.8	63	34	9.7	19
9	1.1	e2.1	---	---	---	3.7	6.2	8.5	58	26	9.7	18
10	1.0	e2.0	---	---	---	3.8	9.0	34	42	21	10	18
11	0.97	e1.9	---	---	---	4.3	11	34	39	22	9.8	19
12	0.97	e1.0	---	---	---	4.8	13	34	26	28	11	25
13	1.1	1.6	---	---	---	5.4	14	33	26	28	10	25
14	1.1	1.6	---	---	---	5.9	16	33	27	28	9.4	26
15	1.1	1.5	---	---	---	6.5	14	33	27	29	9.2	25
16	1.1	1.2	---	---	---	6.5	13	33	23	30	8.9	25
17	1.2	1.4	---	---	---	6.5	14	32	13	29	9.0	24
18	1.1	1.5	---	---	---	6.6	13	31	e80	29	9.4	24
19	1.1	e1.5	---	---	---	6.1	13	31	e60	30	9.3	24
20	1.2	e1.5	---	---	---	6.3	12	32	107	26	8.7	24
21	1.0	e1.5	---	---	---	7.0	11	31	e70	22	8.3	24
22	0.93	e1.5	---	---	---	5.8	12	29	e65	14	8.1	24
23	1.1	e1.5	---	---	---	6.4	15	29	e60	12	9.1	24
24	e1.3	e1.6	---	---	---	7.4	11	28	e55	12	9.7	24
25	1.2	e1.6	---	---	---	8.9	13	28	48	11	9.3	23
26	1.1	e1.6	---	---	---	9.0	16	29	48	11	9.2	18
27	2.0	e1.6	---	---	---	9.4	16	31	54	15	9.0	18
28	2.2	e1.7	---	---	---	9.0	16	29	48	14	9.3	17
29	2.5	e1.7	---	---	---	7.6	16	30	41	15	9.9	17
30	2.2	e1.7	---	---	---	6.9	14	31	38	19	11	17
31	1.9	---	---	---	---	6.8	---	34	---	12	12	---
TOTAL	43.07	49.8	---	---	---	176.5	349.5	788.7	1,480	776	301.8	587.4
MEAN	1.39	1.66	---	---	---	5.69	11.7	25.4	49.3	25.0	9.74	19.6
MAX	2.5	2.4	---	---	---	9.4	16	34	107	44	12	26
MIN	0.93	1.0	---	---	---	2.9	5.6	8.5	13	11	8.1	9.3
AC-FT	85	99	---	---	---	350	693	1,560	2,940	1,540	599	1,170

e Estimated.

07099060 BEAVER CREEK ABOVE HIGHWAY 115 NEAR PENROSE, CO

LOCATION.--Lat 38°29'21", long 104°59'49", in NE¼NE¼ sec.16, T.18 S., R.68 W., Fremont County, Hydrologic Unit 11020002, on left bank 300 ft downstream from Beaver Park Irrigation Company diversion dam, 1.8 mi upstream from State Highway 115, and 4.7 mi north of Penrose.

DRAINAGE AREA.--138 mi^2.

PERIOD OF RECORD.--March 1991 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07099060

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,660 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs, diversions for municipal use by Colorado Springs, and diversions for irrigation. Flows are regulated to some extent by Beaver Park Irrigation Company diversion dam 300 ft upstream. Several measurements of specific conductance and water temperature, when obtained, are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 1,260 ft^3/s, Sept. 6, 2003, gage height, 7.51 ft, from rating curve extended above 422 ft^3/s on basis of flow over dam computation of peak flow; no flow on many days.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 1,260 ft^3/s, Sept. 6, gage height, 7.51 ft, from rating curve extended above 422 ft^3/s on basis of flow over dam computation of peak flow; no flow on many days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	---	---	---	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	---	---	---	0.00	0.00	0.00	6.4	0.00	0.00	0.00
5	0.00	0.00	---	---	---	0.00	0.00	0.00	11	0.00	0.00	0.00
6	0.00	0.00	---	---	---	0.00	0.00	0.00	9.7	0.00	0.00	56
7	0.00	0.00	---	---	---	0.00	0.00	0.00	8.4	0.24	0.00	11
8	0.00	0.00	---	---	---	0.00	0.00	0.00	6.8	0.00	0.00	0.04
9	0.00	0.00	---	---	---	0.00	0.00	0.00	5.2	0.00	0.00	0.00
10	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	0.00	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
13	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	---	---	---	0.00	0.00	0.00	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
17	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	---	---	---	0.02	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	e0.00	---	---	---	0.00	0.00	0.00	25	0.00	0.00	0.00
20	0.00	e0.00	---	---	---	10	0.00	0.00	70	1.2	0.00	0.00
21	0.00	e0.00	---	---	---	0.00	0.00	0.00	52	3.1	0.00	0.00
22	0.00	e0.00	---	---	---	0.00	0.00	0.00	36	0.00	0.00	0.00
23	0.00	e0.00	---	---	---	0.00	0.00	0.00	27	0.00	0.00	0.00
24	0.00	e0.00	---	---	---	0.00	0.00	0.00	16	0.00	0.00	0.00
25	0.00	e0.00	---	---	---	0.00	0.00	0.00	5.8	0.00	0.00	0.00
26	0.00	e0.00	---	---	---	0.00	0.00	0.00	1.9	0.00	0.00	0.00
27	0.00	e0.00	---	---	---	0.00	0.00	0.00	6.8	0.00	0.00	0.00
28	0.00	e0.00	---	---	---	0.00	0.00	0.00	1.3	0.00	0.00	0.00
29	0.00	e0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	e0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	---	---	---	e0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	---	---	---	10.02	0.00	0.00	289.30	4.54	0.00	67.04
MEAN	0.000	0.000	---	---	---	0.32	0.000	0.000	9.64	0.15	0.000	2.23
MAX	0.00	0.00	---	---	---	10	0.00	0.00	70	3.1	0.00	56
MIN	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	---	---	---	20	0.00	0.00	574	9.0	0.00	133

e Estimated.

07099080 RED CREEK BELOW SULLIVAN PARK AT FORT CARSON, CO

LOCATION.--Lat 38°29'59", long 104°54'48", in SE¼NW¼ sec.8, T.18 S., R.67 W., Pueblo County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, on right bank 0.8 mi downstream from Sullivan Park outflow, 1.5 mi south of Camp Red Devil, 1.5 mi east of State Highway 115, and 4.9 mi northeast of Penrose.

DRAINAGE AREA.--26.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 2000 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07099080

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,783 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records poor. Natural flow of stream affected by erosion-control and livestock-watering reservoirs.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 2,320 ft^3/s, Aug. 8, 2003, gage height, 5.81 ft, from rating curve based on slope-conveyance computation; no flow on most days.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 2,320 ft^3/s, Aug. 8, gage height, 5.81 ft, from rating curve based on slope-conveyance computation; no flow on most days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	114	0.00
9	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	12	0.00
10	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
11	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
13	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	---	---	---	---	---	0.00	0.00	0.00	93	0.00	0.00
16	0.00	---	---	---	---	---	0.00	0.00	0.00	18	0.00	0.00
17	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	---	---	---	---	---	0.00	0.00	48	0.00	0.00	0.00
20	0.00	---	---	---	---	---	0.00	0.00	4.0	0.00	0.00	0.00
21	0.00	---	---	---	---	---	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
23	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	---	---	---	---	---	0.00	39	0.00	0.00	0.00	0.00
26	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	---	---	---	---	---	0.00	---	0.00	0.00	---
TOTAL	0.00	---	---	---	---	---	0.00	39.00	52.00	111.00	126.00	0.00
MEAN	0.000	---	---	---	---	---	0.000	1.26	1.73	3.58	4.06	0.000
MAX	0.00	---	---	---	---	---	0.00	39	48	93	114	0.00
MIN	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	---	---	---	---	---	0.00	77	103	220	250	0.00

07099080 RED CREEK BELOW SULLIVAN PARK AT FORT CARSON, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 2000 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07099080

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT: July 2000 to current year (seasonal records only).

INSTRUMENTATION.--Pumping sediment sampler with satellite telemetry.

REMARKS.--Daily mean sediment concentrations published for days of partial flow might not reflect the mean concentration during the flow event, including Aug. 8.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS (seasonal only): Maximum daily mean, 3,390 mg/L, Aug. 8, 2003; no flow on most days.
SUSPENDED-SEDIMENT DISCHARGE (seasonal only): Maximum daily, 8,130 tons (estimated), July 13, 2001; minimum daily, 3.3 tons (estimated), June 20, 2003; no flow on most days.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 3,390 mg/L, Aug. 8; no flow on most days.
SUSPENDED-SEDIMENT DISCHARGE (seasonal only): Maximum daily, 4,800 tons, Aug. 8, minimum daily, 3.3 tons (estimated), June 20; no flow on most days.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
	OCTOBER			NOVEMBER			DECEMBER		
1	0.00	---	---	---	---	---	---	---	---
2	0.00	---	---	---	---	---	---	---	---
3	0.00	---	---	---	---	---	---	---	---
4	0.00	---	---	---	---	---	---	---	---
5	0.00	---	---	---	---	---	---	---	---
6	0.00	---	---	---	---	---	---	---	---
7	0.00	---	---	---	---	---	---	---	---
8	0.00	---	---	---	---	---	---	---	---
9	0.00	---	---	---	---	---	---	---	---
10	0.00	---	---	---	---	---	---	---	---
11	0.00	---	---	---	---	---	---	---	---
12	0.00	---	---	---	---	---	---	---	---
13	0.00	---	---	---	---	---	---	---	---
14	0.00	---	---	---	---	---	---	---	---
15	0.00	---	---	---	---	---	---	---	---
16	0.00	---	---	---	---	---	---	---	---
17	0.00	---	---	---	---	---	---	---	---
18	0.00	---	---	---	---	---	---	---	---
19	0.00	---	---	---	---	---	---	---	---
20	0.00	---	---	---	---	---	---	---	---
21	0.00	---	---	---	---	---	---	---	---
22	0.00	---	---	---	---	---	---	---	---
23	0.00	---	---	---	---	---	---	---	---
24	0.00	---	---	---	---	---	---	---	---
25	0.00	---	---	---	---	---	---	---	---
26	0.00	---	---	---	---	---	---	---	---
27	0.00	---	---	---	---	---	---	---	---
28	0.00	---	---	---	---	---	---	---	---
29	0.00	---	---	---	---	---	---	---	---
30	0.00	---	---	---	---	---	---	---	---
31	0.00	---	---	---	---	---	---	---	---
TOTAL	0.00	---	---	---	---	---	---	---	---

07099080 RED CREEK BELOW SULLIVAN PARK AT FORT CARSON, CO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
	JANUARY			FEBRUARY			MARCH		
1	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---
	APRIL			MAY			JUNE		
1	0.00	---	---	0.00	---	---	0.00	---	---
2	0.00	---	---	0.00	---	---	0.00	---	---
3	0.00	---	---	0.00	---	---	0.00	---	---
4	0.00	---	---	0.00	---	---	0.00	---	---
5	0.00	---	---	0.00	---	---	0.00	---	---
6	0.00	---	---	0.00	---	---	0.00	---	---
7	0.00	---	---	0.00	---	---	0.00	---	---
8	0.00	---	---	0.00	---	---	0.00	---	---
9	0.00	---	---	0.00	---	---	0.00	---	---
10	0.00	---	---	0.00	---	---	0.00	---	---
11	0.00	---	---	0.00	---	---	0.00	---	---
12	0.00	---	---	0.00	---	---	0.00	---	---
13	0.00	---	---	0.00	---	---	0.00	---	---
14	0.00	---	---	0.00	---	---	0.00	---	---
15	0.00	---	---	0.00	---	---	0.00	---	---
16	0.00	---	---	0.00	---	---	0.00	---	---
17	0.00	---	---	0.00	---	---	0.00	---	---
18	0.00	---	---	0.00	---	---	0.00	---	---
19	0.00	---	---	0.00	---	---	48	---	e232
20	0.00	---	---	0.00	---	---	4.0	---	e3.3
21	0.00	---	---	0.00	---	---	0.00	---	---
22	0.00	---	---	0.00	---	---	0.00	---	---
23	0.00	---	---	0.00	---	---	0.00	---	---
24	0.00	---	---	0.00	---	---	0.00	---	---
25	0.00	---	---	39	---	e285	0.00	---	---
26	0.00	---	---	0.00	---	---	0.00	---	---
27	0.00	---	---	0.00	---	---	0.00	---	---
28	0.00	---	---	0.00	---	---	0.00	---	---
29	0.00	---	---	0.00	---	---	0.00	---	---
30	0.00	---	---	0.00	---	---	0.00	---	---
31	---	---	---	0.00	---	---	---	---	---
TOTAL	0.00	---	---	39.00	---	---	52.00	---	---

07099080 RED CREEK BELOW SULLIVAN PARK AT FORT CARSON, CO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
		JULY			AUGUST			SEPTEMBER	
1	0.00	---	---	0.00	---	---	0.00	---	---
2	0.00	---	---	0.00	---	---	0.00	---	---
3	0.00	---	---	0.00	---	---	0.00	---	---
4	0.00	---	---	0.00	---	---	0.00	---	---
5	0.00	---	---	0.00	---	---	0.00	---	---
6	0.00	---	---	0.00	---	---	0.00	---	---
7	0.00	---	---	0.00	---	---	0.00	---	---
8	0.00	---	---	114	3,390	4,800	0.00	---	---
9	0.00	---	---	12	---	e34	0.00	---	---
10	0.00	---	---	0.00	---	---	0.00	---	---
11	0.00	---	---	0.00	---	---	0.00	---	---
12	0.00	---	---	0.00	---	---	0.00	---	---
13	0.00	---	---	0.00	---	---	0.00	---	---
14	0.00	---	---	0.00	---	---	0.00	---	---
15	93	---	e2,710	0.00	---	---	0.00	---	---
16	18	---	e42	0.00	---	---	0.00	---	---
17	0.00	---	---	0.00	---	---	0.00	---	---
18	0.00	---	---	0.00	---	---	0.00	---	---
19	0.00	---	---	0.00	---	---	0.00	---	---
20	0.00	---	---	0.00	---	---	0.00	---	---
21	0.00	---	---	0.00	---	---	0.00	---	---
22	0.00	---	---	0.00	---	---	0.00	---	---
23	0.00	---	---	0.00	---	---	0.00	---	---
24	0.00	---	---	0.00	---	---	0.00	---	---
25	0.00	---	---	0.00	---	---	0.00	---	---
26	0.00	---	---	0.00	---	---	0.00	---	---
27	0.00	---	---	0.00	---	---	0.00	---	---
28	0.00	---	---	0.00	---	---	0.00	---	---
29	0.00	---	---	0.00	---	---	0.00	---	---
30	0.00	---	---	0.00	---	---	0.00	---	---
31	0.00	---	---	0.00	---	---	---	---	---
TOTAL	111.00	---	---	126.00	---	---	0.00	---	---

e Estimated.

07099080 RED CREEK BELOW SULLIVAN PARK AT FORT CARSON, CO—Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--April 1999 to current year (seasonal records only). Air-temperature data available, October 2000 to current year, in files of district office. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07099080

GAGE.--Tipping-bucket rain gage with satellite telemetry. April 28, 1999 to July 25, 2000, at site 1.5 mi upstream.

REMARKS.--Records during estimated periods 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 (seasonal only).--Maximum daily precipitation, 4.52 inches, Aug. 4, 1999, site then in use.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 1.08 inches, Sept. 6.

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	e0.12	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
2	e0.07	---	---	---	---	---	0.00	0.00	0.00	0.00	0.14	0.00
3	e0.05	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.22
4	e0.00	---	---	---	---	---	0.00	0.00	0.10	0.00	0.00	0.00
5	e0.00	---	---	---	---	---	0.00	0.00	0.33	0.00	0.00	0.00
6	e0.00	---	---	---	---	---	0.03	0.00	0.00	0.00	0.00	1.08
7	e0.00	---	---	---	---	---	0.02	0.00	0.03	0.00	0.00	0.09
8	e0.07	---	---	---	---	---	0.03	0.00	0.00	0.00	1.02	0.01
9	e0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.01
10	e0.00	---	---	---	---	---	0.00	0.00	0.03	0.00	0.00	0.00
11	e0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.01	0.00
12	e0.00	---	---	---	---	---	0.00	0.00	0.14	0.00	0.00	0.00
13	e0.00	---	---	---	---	---	0.00	0.00	0.11	0.00	0.00	0.14
14	e0.00	---	---	---	---	---	0.00	0.00	0.11	0.00	0.00	0.00
15	e0.00	---	---	---	---	---	0.00	0.39	0.00	0.73	0.00	0.00
16	e0.00	---	---	---	---	---	0.00	0.01	0.00	0.00	0.00	0.00
17	e0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
18	e0.00	---	---	---	---	---	0.00	0.00	0.42	0.00	0.07	0.00
19	e0.00	---	---	---	---	---	0.16	0.01	0.50	0.20	0.00	0.00
20	e0.00	---	---	---	---	---	0.01	0.01	0.08	0.50	0.00	0.00
21	e0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
22	e0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
23	e0.01	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
24	e0.03	---	---	---	---	---	0.00	0.02	0.00	0.00	0.00	0.00
25	e0.00	---	---	---	---	---	0.00	0.30	0.00	0.00	0.00	0.00
26	e0.28	---	---	---	---	---	0.00	0.02	0.00	0.54	0.01	0.00
27	e0.48	---	---	---	---	---	0.00	0.08	0.00	0.02	0.00	0.00
28	e0.00	---	---	---	---	---	0.00	0.00	0.05	0.00	0.19	0.00
29	e0.13	---	---	---	---	---	0.00	0.00	0.00	0.03	0.00	0.00
30	e0.00	---	---	---	---	---	0.00	0.31	0.00	0.00	0.18	0.00
31	e0.00	---	---	---	---	---	---	0.00	---	0.00	0.05	---
TOTAL	1.24	---	---	---	---	---	0.25	1.15	1.90	2.02	1.67	1.55
MAX	0.48	---	---	---	---	---	0.16	0.39	0.50	0.73	1.02	1.08

e Estimated.

07099200 ARKANSAS RIVER NEAR PORTLAND, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°20'14", long 104°56'18", in NW¼SW¼ sec.6, T.20 S., R.67 W., Fremont County, Hydrologic Unit 11020002, on left bank at Hobson Ranch, 1.4 mi downstream from Willow Creek, and 5.4 mi southeast of Portland.

DRAINAGE AREA.--4,280 mi^2.

PERIOD OF RECORD.--October 1964 to September 1979, May to August 1987, 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=07099200

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

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, 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)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, fltrd, mg/L (00681)
APR													
23...	1100	168	11.5	8.6	644	12.5	E.014	0.215	0.007	0.050	0.061	0.093	2.7
JUN													
18...	1120	e1800	8.5	7.9	204	17.0	<0.015	0.138	<0.002	0.009	0.015	0.072	2.1
JUL													
31...	1040	618	7.3	7.9	337	21.0	0.051	0.331	0.008	0.051	0.063	0.33	2.5
AUG													
26...	0845	358	7.4	8.1	452	19.0	0.042	0.313	0.007	0.053	0.065	0.34	2.6
SEP													
29...	1130	230	10.0	8.4	559	15.0	<0.015	0.037	E.002	0.039	0.051	0.072	2.6

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

07099215 TURKEY CREEK NEAR FOUNTAIN, CO

LOCATION.--Lat 38°36'42", long 104°53'39", in NW¼SE¼ sec.33, T.16 S., R.67 W., El Paso County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, on left bank 100 ft downstream from State Highway 115 bridge, 0.7 mi downstream from Turkey Canyon, 0.8 mi upstream from Turkey Creek Ranch, and 9.4 mi southwest of Fountain.

DRAINAGE AREA.--13.0 mi^2.

PERIOD OF RECORD.--May 1978 to September 1989, May 1995 to September 1998, April 1999 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07099215

REVISED RECORDS.--WDR CO-80-1: 1978-79 (M). WDR CO-96-1: 1980 (M), 1982-86 (M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,420 ft above NGVD of 1929, from topographic map. Prior to June 14, 2001, at datum 1.00 ft higher.

REMARKS.--No estimated daily discharges. Records fair except for May 21 to June 30, which are poor. Natural flow of stream affected by upstream diversions for irrigation and livestock. Several measurements of specific conductance and water temperature, when obtained, are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 850 ft^3/s, June 10, 1997, from slope-area measurement of peak flow, gage height, 6.56 ft, from floodmarks; no flow on many days during many years.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 1.7 ft^3/s, Apr. 2, gage height, 1.76 ft; no flow on many days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	---	---	---	---	---	0.61	0.29	0.09	0.26	0.00	0.00
2	---	---	---	---	---	---	0.82	0.27	0.10	0.25	0.00	0.00
3	---	---	---	---	---	---	0.62	0.26	0.09	0.25	0.00	0.00
4	---	---	---	---	---	---	0.51	0.26	0.09	0.25	0.00	0.00
5	---	---	---	---	---	---	0.48	0.23	0.10	0.22	0.00	0.00
6	---	---	---	---	---	---	0.43	0.21	0.09	0.22	0.00	0.00
7	---	---	---	---	---	---	0.32	0.20	0.11	0.21	0.00	0.00
8	---	---	---	---	---	---	0.27	0.19	0.17	0.20	0.00	0.00
9	---	---	---	---	---	---	0.25	0.18	0.15	0.18	0.00	0.00
10	---	---	---	---	---	---	0.22	0.16	0.12	0.04	0.00	0.00
11	---	---	---	---	---	---	0.31	0.15	0.13	0.00	0.00	0.00
12	---	---	---	---	---	---	0.38	0.15	0.13	0.00	0.00	0.00
13	---	---	---	---	---	---	0.43	0.15	0.14	0.00	0.00	0.00
14	---	---	---	---	---	---	0.48	0.14	0.18	0.00	0.00	0.00
15	---	---	---	---	---	---	0.45	0.15	0.18	0.02	0.00	0.00
16	---	---	---	---	---	---	0.39	0.15	0.18	0.00	0.00	0.00
17	---	---	---	---	---	---	0.42	0.17	0.19	0.00	0.00	0.00
18	---	---	---	---	---	---	0.37	0.17	0.19	0.00	0.00	0.00
19	---	---	---	---	---	---	0.31	0.17	0.21	0.00	0.00	0.00
20	---	---	---	---	---	---	0.25	0.19	0.20	0.02	0.00	0.00
21	---	---	---	---	---	---	0.23	0.20	0.22	0.00	0.00	0.00
22	---	---	---	---	---	---	0.25	0.19	0.22	0.00	0.00	0.00
23	---	---	---	---	---	---	0.21	0.16	0.20	0.00	0.00	0.00
24	---	---	---	---	---	---	0.18	0.14	0.22	0.00	0.00	0.00
25	---	---	---	---	---	---	0.24	0.15	0.22	0.00	0.00	0.00
26	---	---	---	---	---	---	0.27	0.15	0.25	0.00	0.00	0.00
27	---	---	---	---	---	---	0.29	0.16	0.24	0.00	0.00	0.00
28	---	---	---	---	---	---	0.29	0.17	0.23	0.00	0.00	0.00
29	---	---	---	---	---	---	0.32	0.17	0.24	0.00	0.00	0.00
30	---	---	---	---	---	---	0.30	0.13	0.27	0.00	0.00	0.00
31	---	---	---	---	---	---	---	0.10	---	0.00	0.00	---
TOTAL	---	---	---	---	---	---	10.90	5.56	5.15	2.12	0.00	0.00
MEAN	---	---	---	---	---	---	0.36	0.18	0.17	0.068	0.000	0.000
MAX	---	---	---	---	---	---	0.82	0.29	0.27	0.26	0.00	0.00
MIN	---	---	---	---	---	---	0.18	0.10	0.09	0.00	0.00	0.00
AC-FT	---	---	---	---	---	---	22	11	10	4.2	0.00	0.00

07099230 TURKEY CREEK ABOVE TELLER RESERVOIR NEAR STONE CITY, CO

LOCATION.--Lat 38°27'54", long 104°49'36" (revised), in SW¼SW¼ sec.19, T.18 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, on left bank 0.7 mi northwest of intersection of military roads 9 and 1, 2.2 mi upstream from Teller Reservoir Dam, and 2.2 mi northeast of Stone City.

DRAINAGE AREA.--62.3 mi^2.

REVISED RECORDS.--WDR CO-89-1: Drainage area.

PERIOD OF RECORD.--May 1978 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07099230

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,520 ft above NGVD of 1929, from topographic map. Prior to July 21, 1989, at site 0.6 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by diversions for irrigation. Several measurements of specific conductance and water temperature, when obtained, are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00
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	0.00	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	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2003, BY WATER YEAR (WY)

MEAN	2.46	1.73	0.89	0.70	0.66	0.67	2.43	15.6	9.45	2.63	6.22	1.38
MAX	44.6	26.7	6.47	2.69	2.58	2.75	21.8	124	60.1	17.1	79.2	18.1
(WY)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)	(1999)	(1999)	(1997)	(1985)	(1999)	(1982)
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	(1979)	(1979)	(1979)	(1979)	(1979)	(1979)	(1979)	(1979)	(1989)	(1978)	(1990)	(1978)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1978 - 2003	
ANNUAL TOTAL	0.00		0.02			
ANNUAL MEAN	0.000		0.000		3.82	
HIGHEST ANNUAL MEAN					21.2	1999
LOWEST ANNUAL MEAN					0.000	2002
HIGHEST DAILY MEAN	0.00	Jan 1	0.02	May 25	836	Aug 5, 1999
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	a0.00	May 18, 1978
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	May 18, 1978
MAXIMUM PEAK FLOW			0.56	May 25	b3,640	Aug 20, 1982
MAXIMUM PEAK STAGE			3.31	May 25	c11.51	Aug 20, 1982
ANNUAL RUNOFF (AC-FT)	0.00		0.04		2,770	
10 PERCENT EXCEEDS	0.00		0.00		5.0	
50 PERCENT EXCEEDS	0.00		0.00		0.38	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

a No flow many days during many years.
b From rating curve extended above 95 ft^3/s on basis of slope-area measurements at gage heights 7.64 ft and 11.27 ft, site and datum then in use.
c Maximum gage height, 11.88 ft, June 8, 1987, site and datum then in use.

07099233 TELLER RESERVOIR NEAR STONE CITY, CO

LOCATION.--Lat 38°26'33", long 104°49'33" (revised), in SE¼NW¼ sec.31, T.18 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, at left upstream end of dam on Turkey Creek, 1.4 mi upstream from Booth Gulch, and 2.0 mi east of Stone City.

DRAINAGE AREA.--71.5 mi^2.

PERIOD OF RECORD.--September 1978 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07099233

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,453 ft above NGVD of 1929, from topographic map.

REMARKS.--Reservoir is formed by an earthfill dam completed around 1908. All figures represent total contents from area-capacity table effective Oct. 1, 2001, and based on a 1980 survey and adjusted for sedimentation from a partial area-capacity resurvey during May 2002. Total capacity, 2,603 acre-ft at elevation of about 92 ft. Capacity at spillway crest, 1,115 acre-ft at elevation of about 84 ft (since 1996). Capacity at uncontrolled tower outlet invert, 1,765 acre-ft at elevation of about 88 ft. Elevation of no contents, about 65.2 ft. There is a controlled outlet from reservoir; however, considerable leakage occurs along dam margins. Dead storage unknown. Reservoir is used by the Fort Carson Military Reservation for recreation and amphibious training.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,210 acre-ft, June 21, 1980, elevation, 90.15 ft, from capacity curve extended above 88 ft; no contents during many years.

EXTREMES FOR CURRENT YEAR.--No contents during year.

Capacity table
(Elevation, in feet, and contents, in acre-feet, effective Oct. 1, 2001)

Elevation	Capacity	Elevation	Capacity
65.20	0.0	80.00	637
67.50	13	82.50	921
70.00	76	85.00	1,270
72.50	167	87.50	1,680
75.00	280	90.00	2,160
77.50	428	92.00	2,600

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
2	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
3	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
4	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
5	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
6	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
7	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
8	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
9	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
10	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
11	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
12	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
13	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
14	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
15	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
16	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
17	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
18	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
19	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
20	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
21	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
22	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
23	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
24	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
25	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
26	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
27	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
28	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
29	e0.00	e0.00	e0.00	e0.00	---	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
30	e0.00	e0.00	e0.00	e0.00	---	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00
31	e0.00	---	e0.00	e0.00	---	e0.00	---	e0.00	---	e0.00	e0.00	---
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

e Estimated.

382629104493000 TURKEY CREEK EAST SEEPAGE BELOW TELLER RESERVOIR NEAR STONE CITY, CO

LOCATION.--Lat 38°26'29", long 104°49'33" (revised), in SW$^1/_4$NW$^1/_4$ sec.31, T.18 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, at base of left downstream end of Teller Dam on Turkey Creek, and 2.0 mi east of Stone City.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 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=382629104493000

GAGE.--Water-stage recorder with satellite telemetry and V-notch sharp-crested weir. Elevation of gage is 5,420 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Flows less than 0.02 ft^3/s can be in error by more than 25-percent. Natural flow of stream affected by Teller Reservoir contents (station 07099233) and saturation of earthfill dam.

EXTREMES FOR PERIOD OF RECORD (dam seepage only).--Maximum daily discharge, 0.17 ft^3/s, Mar. 15, 17, 2002; minimum daily, 0.001 ft^3/s (some estimated), on many days during 2003.

EXTREMES FOR CURRENT YEAR (dam seepage only).--Maximum daily discharge, 0.006 ft^3/s, Oct. 1-6; minimum daily, 0.001 ft^3/s (some estimated), on many days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.006	0.002	0.003	0.004	e0.004	0.004	0.001	0.002	0.001	0.001	0.001	e0.001
2	e0.006	0.003	0.004	0.005	e0.004	0.004	0.001	0.002	0.001	0.001	0.001	e0.001
3	e0.006	0.002	0.002	0.004	0.004	0.004	0.001	0.002	0.001	0.001	0.001	e0.001
4	e0.006	0.003	0.003	0.004	e0.004	0.004	0.002	0.002	0.001	0.001	0.001	e0.001
5	0.006	0.003	0.002	0.004	0.004	0.004	0.002	0.002	0.001	0.001	0.001	e0.001
6	0.006	0.003	0.001	0.004	0.004	0.004	0.002	0.002	0.001	0.001	0.001	0.001
7	0.005	0.003	0.003	0.004	0.004	0.004	0.002	0.002	0.001	0.001	0.001	0.002
8	e0.005	0.004	0.002	0.004	0.004	0.004	0.002	0.002	0.001	0.001	0.001	0.001
9	e0.005	0.004	0.003	0.004	0.004	0.004	0.002	0.002	0.001	0.001	0.001	0.001
10	e0.005	0.003	0.004	0.003	0.004	0.004	0.003	0.002	e0.001	e0.001	0.001	0.001
11	e0.005	0.002	0.003	0.001	0.004	0.004	0.002	0.002	e0.001	e0.001	0.001	0.001
12	0.005	0.002	0.003	0.002	0.004	0.004	0.002	0.001	e0.001	e0.001	0.001	0.001
13	0.004	0.003	0.003	0.004	0.004	0.003	0.003	0.001	e0.001	e0.001	0.001	0.001
14	0.004	0.002	0.004	0.004	0.004	0.004	0.003	0.001	e0.001	e0.001	0.001	0.001
15	0.004	0.002	0.004	0.004	0.004	0.003	0.004	0.001	e0.001	e0.001	0.001	0.001
16	0.004	0.002	0.004	e0.003	0.003	e0.002	0.004	0.001	e0.001	0.001	0.001	0.001
17	0.004	0.003	0.004	0.003	0.004	e0.002	0.005	0.001	e0.001	e0.001	0.001	0.001
18	0.004	0.004	0.004	0.002	0.004	0.002	0.005	0.001	e0.001	e0.001	0.001	0.001
19	0.004	0.003	0.004	0.001	0.004	0.004	0.004	0.001	e0.001	e0.001	0.001	0.001
20	e0.004	0.002	0.004	0.004	0.004	0.001	0.004	0.001	e0.001	e0.001	0.001	0.001
21	e0.004	0.002	0.004	0.004	0.004	e0.001	0.004	0.001	e0.001	e0.001	0.001	0.001
22	e0.004	0.003	0.003	0.004	0.004	e0.001	0.004	0.001	e0.001	e0.001	0.001	0.001
23	0.002	0.004	0.001	0.003	0.004	e0.001	0.004	0.001	e0.001	e0.001	0.001	0.001
24	0.002	0.004	0.001	0.002	0.004	e0.001	0.004	0.001	0.001	e0.001	0.001	0.001
25	0.003	0.003	0.001	0.004	0.004	e0.001	0.004	0.002	0.001	0.001	0.001	0.001
26	0.003	0.002	0.001	e0.004	0.004	e0.001	0.004	0.001	0.001	0.001	0.001	0.001
27	0.004	0.002	0.001	e0.004	0.004	0.001	0.004	0.001	0.001	0.001	0.001	0.001
28	0.004	0.003	0.003	e0.004	0.004	0.001	0.004	0.001	e0.001	0.001	e0.001	0.001
29	0.003	0.004	0.004	e0.004	---	e0.001	0.003	0.001	0.001	0.001	0.001	0.001
30	0.002	0.003	0.004	e0.004	---	e0.001	0.002	0.001	0.001	0.001	e0.001	0.001
31	0.002	---	0.004	e0.004	---	e0.001	---	0.001	---	0.001	e0.001	---
TOTAL	0.131	0.085	0.091	0.109	0.111	0.080	0.091	0.043	0.030	0.031	0.031	0.031
MEAN	0.004	0.003	0.003	0.004	0.004	0.003	0.003	0.001	0.001	0.001	0.001	0.001
MAX	0.006	0.004	0.004	0.005	0.004	0.004	0.005	0.002	0.001	0.001	0.001	0.002
MIN	0.002	0.002	0.001	0.001	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001
AC-FT	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.09	0.06	0.06	0.06	0.06

CAL YR 2002 TOTAL 13.236 MEAN 0.036 MAX 0.17 MIN 0.001 AC-FT 26
WTR YR 2003 TOTAL 0.864 MEAN 0.002 MAX 0.006 MIN 0.001 AC-FT 1.7

e Estimated.

382628104493700 TURKEY CREEK WEST SEEPAGE BELOW TELLER RESERVOIR NEAR STONE CITY, CO

LOCATION.--Lat 38°26'28", long 104°49'37", in SW¼NW¼ sec.31, T.18 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, at base of right downstream end of Teller Dam on Turkey Creek, and 1.9 mi east of Stone City.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 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=382628104493700

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,420 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by Teller Reservoir contents (station 07099233) and saturation of earthfill dam.

EXTREMES FOR PERIOD OF RECORD (dam seepage only).--No flow during period of record.

EXTREMES FOR CURRENT YEAR (dam seepage only).--No flow during current year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	e0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	e0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	e0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	e0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	e0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	e0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	e0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	e0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	e0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	e0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	e0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	e0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	e0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	---	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	---	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	0.000	---	0.000	0.000	---	0.000	---	0.000	---	0.000	0.000	---
TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MAX	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

CAL YR	2002	TOTAL	0.000	MEAN	0.000	MAX	0.000	MIN	0.000	AC-FT 0.00
WTR YR	2003	TOTAL	0.000	MEAN	0.000	MAX	0.000	MIN	0.000	AC-FT 0.00

e Estimated.

07099235 TURKEY CREEK NEAR STONE CITY, CO

LOCATION.--Lat 38°25'56", long 104°49'58", in SE¼SE¼ sec.36, T.18 S., R.67 W., Pueblo County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, on left bank at downstream end of culverts on military road 14, 1.1 mi downstream from Teller Reservoir Dam, and 2.0 mi southeast of Stone City.

DRAINAGE AREA.--72.4 mi^2.

PERIOD OF RECORD.--May 1978 to September 1984, June 1987 to current year.For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07099235

REVISED RECORDS.--WDR CO-80-1: 1979(M).

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,350 ft above NGVD of 1929, from topographic map. Prior to June 12, 1987, at site 1.0 mi upstream at different datum. June 12, 1987 to Dec. 6, 1989, at site 0.6 mi upstream at different datum. Dec. 7, 1989 to Dec. 9, 1999, at site 0.9 mi upstream at different datum.

REMARKS.--Records good. Natural flow of stream affected by erosion-control and livestock-watering reservoirs, storage reservoir, diversions for irrigation, ground-water withdrawals, and return flows from irrigated areas. Flow mostly regulated by Teller Reservoir (station 07099233) 1.1 mi upstream. Gage records seepage and releases from reservoir. Measurements of specific conductance and water temperature, when obtained, are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00
10	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	e0.00	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	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2003, BY WATER YEAR (WY)

MEAN	0.33	0.35	0.76	0.48	0.43	0.41	0.39	1.25	2.14	1.03	0.77	0.55
MAX	1.64	1.57	10.8	5.23	3.69	3.54	2.75	8.37	20.3	9.78	4.43	3.03
(WY)	(1983)	(1983)	(2000)	(2000)	(2000)	(2000)	(2000)	(1995)	(1995)	(1995)	(1995)	(1995)
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1978 - 2003	
ANNUAL TOTAL	0.00		0.00			
ANNUAL MEAN	0.000		0.000		0.74	
HIGHEST ANNUAL MEAN					3.93	1995
LOWEST ANNUAL MEAN					0.000	2002
HIGHEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	70	May 31, 1995
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	a0.00	Sep 17, 1989
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Apr 14, 2001
MAXIMUM PEAK FLOW			0.09	Sep 7	b83	May 30, 1995
MAXIMUM PEAK STAGE			3.45	Sep 7	c6.29	May 30, 1995
ANNUAL RUNOFF (AC-FT)	0.00		0.00		539	
10 PERCENT EXCEEDS	0.00		0.00		1.6	
50 PERCENT EXCEEDS	0.00		0.00		0.15	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated.
a Also occurred on many days during 2000-2002.
b From rating curve extended above 62 ft^3/s.
c Site and datum then in use.

07099238 TELLER RESERVOIR SPILLWAY NEAR STONE CITY, CO

LOCATION.--Lat 38°26'20", long 104°49'15", in NE¼SW¼ sec.31, T.18 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, on right bank 0.4 mi southeast of Teller Reservoir Dam on Turkey Creek, and 1.2 mi southeast of Stone City.

DRAINAGE AREA.--71.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 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=07099238

GAGE.--Water-stage recorder with satellite telemetry and broad-crested weir. Elevation of gage is 5,480 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records poor. Records represent uncontrolled overflow from Teller Reservoir and local storm runoff. There was no overflow from Teller Reservoir during the year. Published flows represent local storm runoff.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	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	0.05	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	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	0.35	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.76	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.20	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.12	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	1.34	0.15	0.62	1.51	0.47	0.30	0.13
MEAN	0.000	0.000	0.000	0.000	0.000	0.043	0.005	0.020	0.050	0.015	0.010	0.004
MAX	0.00	0.00	0.00	0.00	0.00	0.99	0.15	0.35	0.76	0.47	0.30	0.13
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	2.7	0.3	1.2	3.0	0.9	0.6	0.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2003, BY WATER YEAR (WY)

MEAN	0.000	0.000	0.000	0.000	0.000	0.014	0.002	0.008	0.029	0.016	0.006	0.002
MAX	0.000	0.000	0.000	0.000	0.000	0.043	0.005	0.020	0.050	0.019	0.010	0.004
(WY)	(2002)	(2001)	(2001)	(2001)	(2001)	(2003)	(2003)	(2003)	(2003)	(2002)	(2001)	(2003)
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.000	0.000
(WY)	(2002)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2002)	(2002)	(2003)	(2002)	(2001)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2001 - 2003	
ANNUAL TOTAL	0.64		4.52			
ANNUAL MEAN	0.002		0.012		0.007	
HIGHEST ANNUAL MEAN					0.012	2003
LOWEST ANNUAL MEAN					0.002	2002
HIGHEST DAILY MEAN	0.39	Jul 6	0.99	Mar 18	0.99	Mar 18, 2003
LOWEST DAILY MEAN	0.00	Jan 1	a0.00	Oct 1	a0.00	Oct 20, 2000
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Oct 20, 2000
MAXIMUM PEAK FLOW			b25	Jun 18	b25	Jun 18, 2003
MAXIMUM PEAK STAGE			3.97	Jun 18	3.97	Jun 18, 2003
ANNUAL RUNOFF (AC-FT)	1.3		9.0		5.1	
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

a No flow on most days.
b From rating curve based on open-channel flow computations.

07099238 TELLER RESERVOIR SPILLWAY NEAR STONE CITY, CO—Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--May 2001 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07099238

GAGE.--Tipping-bucket rain gage with satellite telemetry.

REMARKS.--Records during Sept. 5-30 may be less accurate than the rest of the published records.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.38 inches, June 20, 2001.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 1.00 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	0.16	---	---	---	---	---	0.00	0.00	0.01	0.00	0.00	0.00
2	0.10	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
3	0.05	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.58
4	0.00	---	---	---	---	---	0.00	0.00	0.20	0.00	0.09	0.01
5	0.00	---	---	---	---	---	0.00	0.00	0.32	0.00	0.00	0.00
6	0.00	---	---	---	---	---	0.02	0.00	0.00	0.00	0.00	0.25
7	0.00	---	---	---	---	---	0.14	0.00	0.04	0.00	0.00	0.32
8	0.05	---	---	---	---	---	0.16	0.00	0.00	0.00	0.19	0.01
9	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.01	0.01
10	0.00	---	---	---	---	---	0.00	0.00	0.43	0.00	0.00	0.00
11	0.00	---	---	---	---	---	0.00	0.00	0.01	0.00	0.00	0.00
12	0.00	---	---	---	---	---	0.00	0.00	0.02	0.00	0.00	0.00
13	0.00	---	---	---	---	---	0.00	0.00	0.31	0.00	0.00	0.15
14	0.00	---	---	---	---	---	0.00	0.00	0.07	0.00	0.00	0.01
15	0.00	---	---	---	---	---	0.10	0.52	0.00	0.79	0.00	0.00
16	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	---	---	---	---	---	0.00	0.01	0.01	0.00	0.00	0.00
18	0.00	---	---	---	---	---	0.00	0.00	0.91	0.00	0.03	0.00
19	0.00	---	---	---	---	---	1.00	0.00	0.21	0.14	0.00	0.00
20	0.00	---	---	---	---	---	0.00	0.00	0.15	0.13	0.00	0.00
21	0.00	---	---	---	---	---	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
23	0.01	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
24	0.01	---	---	---	---	---	0.00	0.10	0.00	0.00	0.00	0.00
25	0.01	---	---	---	---	---	0.00	0.70	0.00	0.00	0.00	0.00
26	0.23	---	---	---	---	---	0.00	0.04	0.00	0.20	0.50	0.00
27	0.03	---	---	---	---	---	0.00	0.24	0.00	0.00	0.00	0.00
28	0.00	---	---	---	---	---	0.00	0.00	0.34	0.11	0.25	0.00
29	0.01	---	---	---	---	---	0.00	0.00	0.02	0.01	0.01	0.00
30	0.00	---	---	---	---	---	0.00	0.39	0.00	0.00	0.39	0.00
31	0.00	---	---	---	---	---	---	0.02	---	0.00	0.00	---
TOTAL	0.66	---	---	---	---	---	1.42	2.02	3.05	1.38	1.47	1.34
MAX	0.23	---	---	---	---	---	1.00	0.70	0.91	0.79	0.50	0.58

07099350 PUEBLO RESERVOIR NEAR PUEBLO, CO

LOCATION.--Lat 38°16'15", long 104°43'30", in NE$^1/_4$ sec.36, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, at dam on Arkansas River, 7 mi west of Pueblo.

DRAINAGE AREA.--4,669 mi^2.

RESERVOIR ELEVATIONS AND CONTENTS RECORDS

PERIOD OF RECORD.--January 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,898.70 ft above NGVD of 1929, (levels by U.S. Bureau of Reclamation); gage readings at 2400 have been reduced to elevations above NGVD of 1929.

REMARKS.--Reservoir is formed by concrete and earthfill dam. Storage began Jan. 9, 1974; dam completed in August 1975. Capacity, 357,700 acre-ft at elevation 4,898.70 ft, crest of spillway. Dead storage, 3,730 acre-ft, below elevation 4,764.00 ft, invert of river outlet. Reservoir is terminal reservoir of the Fryingpan-Arkansas project and is used to provide flood control, municipal and industrial supplies, and to fulfill irrigation requirements in the Arkansas River Valley. Figures given are total contents.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 295,480 acre-ft, Feb. 12, 1985, elevation, 4,886.94 ft; minimum since appreciable storage was attained, 22,680 acre-ft, Nov. 13, 1974, elevation, 4,790.50 ft.

EXTREMES (AT 2400) FOR CURRENT YEAR.--Maximum contents, 114,210 acre-ft, Mar. 19, elevation, 4,840.70 ft; minimum contents, 66,170 acre-ft, Sept. 23, elevation, 4,820.65 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	4,826.27	78,080	-
Oct. 31	4,826.16	77,830	-250
Nov. 30	4,827.93	81,810	+3,980
Dec. 31	4,832.24	92,040	+10,230
CAL YR 2002	-	-	-24,730
Jan. 31	4,835.94	101,430	+9,390
Feb. 28	4,838.89	109,270	+7,840
Mar. 31	4,840.52	113,710	+4,440
Apr. 30	4,837.48	105,490	-8,220
May 31	4,832.15	91,820	-13,670
June 30	4,826.07	77,630	-14,190
July 31	4,823.66	72,420	-5,210
Aug. 31	4,821.32	67,540	-4,880
Sept. 30	4,820.66	66,190	-1,350
WTR YR 2003	-	-	-11,890

PUEBLO RESERVOIR NEAR PUEBLO, CO—Continued

WATER-QUALITY RECORDS

Water-quality samples and field measurements were collected at various depths at a number of sites on transects located along the length of the reservoir. Data are collected in an effort to represent the complete seasonal cycle of lake dynamics.

381754104504000 PUEBLO RESERVOIR SITE 2B

LOCATION.--Lat 38°17'54", long 104°50'40", in SW¼NW¼ sec.24, T.20 S., R.67 W., Pueblo County, Hydrologic Unit 11020002, at approximate center of transect approximately 1.1 mi downstream from Rush Creek, 1.1 mi upstream from Turkey Creek, 7.8 mi upstream from Pueblo Dam on Arkansas River, and 14.2 mi west of the Pueblo County Courthouse.

PERIOD OF RECORD.--June 1988 to current year (site dry during 1990-92, 2002-03). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=381754104504000

REMARKS.--Site dry during all scheduled sampling events this year.

*****
SITE DRY DURING 2003 WATER YEAR
*****

381725104494400 PUEBLO RESERVOIR SITE 3B

LOCATION.--Lat 38°17'25", long 104°49'44", in SW¼SW¼ sec.19, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, at approximate center of transect approximately 100 ft downstream from Turkey Creek, 6.7 mi upstream from Pueblo Dam on Arkansas River, and 13.4 mi west of the Pueblo County Courthouse.

PERIOD OF RECORD.--June 1988 to current year (site dry during 2003). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=381725104494400

REMARKS.--Site dry during all scheduled sampling events this year.

*****
SITE DRY DURING 2003 WATER YEAR
*****

PUEBLO RESERVOIR NEAR PUEBLO, CO—Continued

WATER-QUALITY RECORDS

381647104475300 PUEBLO RESERVOIR SITE 4B

LOCATION.--Lat 38°16'47", long 104°47'53", in NW¼SE¼ sec.29, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, at approximate center of transect approximately 1.3 mi upstream from Peck Creek, 2.2 mi downstream from Turkey Creek, 4.5 mi upstream from Pueblo Dam on Arkansas River, and 10.9 mi west of the Pueblo County Courthouse.

PERIOD OF RECORD.--June 1988 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=381647104475300

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

Date	Time	Sampling depth, feet (00003)	Transparency water unfltrd secchi disc feet (49701)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
APR							
25...	1215	0.10	2.0	8.6	8.2	641	12.2
25...	1216	6.00	--	8.6	8.2	641	11.9
25...	1217	12.0	--	8.6	8.2	641	11.8
25...	1218	18.0	--	7.7	8.0	643	11.3
25...	1220	21.5	--	7.4	8.0	645	11.1
JUN							
03...	1250	0.10	0.50	6.1	8.1	335	19.0
03...	1251	6.00	--	5.9	8.1	319	18.5
03...	1252	12.0	--	5.9	8.1	201	16.2
03...	1253	14.0	--	5.9	8.1	190	16.0
20...	1310	0.10	1.0	8.8	8.8	268	21.8
20...	1312	3.00	--	8.8	8.8	268	21.5
20...	1314	6.00	--	8.2	8.8	268	21.2
20...	1315	9.00	--	6.6	8.0	298	18.4
20...	1317	10.0	--	6.5	7.9	309	17.9
JUL							
30...	1114	0.10	1.5	8.5	8.5	333	24.1
30...	1116	3.00	--	8.5	8.5	333	24.0
30...	1118	6.00	--	6.5	7.9	329	21.1
30...	1121	7.00	--	6.3	7.6	330	20.4
AUG							
27...	1100	0.10	0.50	7.2	8.4	432	23.7
27...	1102	3.00	--	6.0	8.1	453	22.4
27...	1105	5.00	--	5.4	7.9	462	21.3
SEP							
30...	1037	0.10	1.0	8.7	8.6	500	16.9
30...	1038	3.00	--	8.1	8.4	580	13.4
30...	1039	3.50	--	7.9	8.4	585	13.0

PUEBLO RESERVOIR NEAR PUEBLO, CO—Continued

WATER-QUALITY RECORDS

381559104465500 PUEBLO RESERVOIR SITE 5C

LOCATION.--Lat 38°15'59", long 104°46'55", in SW¼NE¼ sec.33, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, at approximate center of transect approximately 0.1 mi upstream from Peck Creek, 1.2 mi upstream from Rock Creek, 3.2 mi upstream from Pueblo Dam on Arkansas River, and 9.6 mi west of the Pueblo County Courthouse.

PERIOD OF RECORD.--June 1988 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=381559104465500

REMARKS.--Chlorophyll samples were composited from samples collected at the surface, at the transparency depth (secchi disk), and at twice the transparency depth.

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

Date	Time	Sampling depth, feet (00003)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
APR						
25...	1105	0.10	7.8	8.2	641	11.5
25...	1108	3.00	7.9	8.2	641	11.5
25...	1110	6.00	8.0	8.2	641	11.4
25...	1111	9.00	8.0	8.2	641	11.4
25...	1112	12.0	8.0	8.2	641	11.3
25...	1113	15.0	7.9	8.1	641	11.1
25...	1114	18.0	7.7	8.1	644	10.8
25...	1116	21.0	7.5	8.0	646	10.6
25...	1118	24.0	7.4	8.0	650	10.4
25...	1119	27.0	7.4	8.0	650	10.2
25...	1120	30.0	7.1	8.0	653	10.0
25...	1121	31.0	7.0	8.0	653	10.0
JUN						
03...	1220	0.10	6.1	8.0	446	19.7
03...	1221	3.00	6.1	8.0	444	19.7
03...	1222	6.00	6.1	8.0	443	19.6
03...	1223	9.00	6.0	8.0	436	19.6
03...	1224	12.0	5.9	8.0	427	19.5
03...	1225	15.0	5.8	8.0	359	18.6
03...	1226	18.0	5.7	8.0	310	17.4
03...	1227	21.0	5.5	8.0	252	16.7
03...	1228	22.5	5.5	8.0	249	16.6
20...	1125	0.10	9.5	8.9	264	21.6
20...	1127	3.00	9.3	8.8	261	20.7
20...	1128	6.00	8.6	8.6	263	19.8
20...	1129	9.00	7.9	8.2	279	19.3
20...	1131	12.0	7.3	8.0	279	19.1
20...	1133	15.0	7.0	7.9	286	18.8
20...	1134	18.0	6.7	7.9	281	18.7
20...	1136	19.5	6.4	7.9	288	18.2
JUL						
30...	1018	0.10	8.4	8.6	331	25.1
30...	1021	3.00	7.9	8.5	331	24.4
30...	1023	6.00	7.3	8.4	332	24.2
30...	1025	9.00	6.9	8.3	333	24.2
30...	1027	12.0	6.4	8.1	333	24.0
30...	1029	15.0	6.3	8.2	339	24.0
30...	1031	16.0	5.5	8.1	338	23.8
AUG						
27...	1016	0.10	6.3	8.4	412	23.7
27...	1017	3.00	5.8	8.3	409	23.1
27...	1018	6.00	5.4	8.2	411	23.0
27...	1020	9.00	5.0	8.1	404	22.9
27...	1021	12.0	4.5	8.0	400	22.7
27...	1023	15.0	3.9	7.9	422	22.7
27...	1026	17.0	3.7	7.8	427	22.6
SEP						
30...	0933	0.10	7.9	8.4	422	17.6
30...	0934	3.00	7.9	8.4	422	17.6
30...	0935	6.00	8.0	8.4	422	17.6
30...	0936	9.00	8.0	8.4	422	17.6
30...	0937	12.0	8.0	8.5	424	17.6
30...	0938	13.5	8.0	8.5	424	17.6

PUEBLO RESERVOIR NEAR PUEBLO, CO—Continued

381559104465500 PUEBLO RESERVOIR SITE 5C--CONTINUED

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

Date	Time	Sampling depth, feet (00003)	Transparency water unfltrd secchi disc feet (49701)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, 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)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)
APR													
25...	1115	0.10	--	--	7.8	8.2	641	11.5	0.033	0.190	0.005	<0.007	0.006
25...	1130	29.0	--	--	7.1	8.0	653	10.0	0.041	0.198	0.006	<0.007	0.007
25...	1145	--	2.0	11	--	--	--	--	--	--	--	--	--
JUN													
20...	1145	0.10	--	--	9.5	8.9	264	21.6	0.020	0.072	0.015	0.009	0.017
20...	1200	18.0	--	--	6.7	7.9	281	18.7	0.019	0.118	0.014	E.005	0.012
20...	1230	--	1.5	20	--	--	--	--	--	--	--	--	--
JUL													
30...	1015	0.10	--	--	8.4	8.6	331	25.1	E.010	0.038	0.007	<0.007	0.011
30...	1030	16.0	--	--	5.5	8.1	338	23.8	E.008	0.055	0.007	<0.007	0.011
30...	1045	--	1.5	4.2	--	--	--	--	--	--	--	--	--
AUG													
27...	1015	0.10	--	--	6.3	8.4	412	23.7	E.010	0.054	0.005	E.005	0.012
27...	1030	13.0	--	--	4.3	8.0	410	22.7	E.009	0.053	0.005	<0.007	0.007
27...	1045	--	1.0	15	--	--	--	--	--	--	--	--	--
SEP													
30...	0945	0.10	--	--	7.9	8.4	422	17.6	<0.015	0.044	0.004	<0.007	0.005
30...	1000	12.0	--	--	8.0	8.5	424	17.6	<0.015	0.043	0.004	<0.007	0.004
30...	1015	--	2.0	8.5	--	--	--	--	--	--	--	--	--

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

Date	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, fltrd, mg/L (00681)	Pheophytin a, phytoplankton, ug/L (62360)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Arsenic water, fltrd, ug/L (01000)	Arsenic water unfltrd ug/L (01002)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recoverable, ug/L (01042)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recoverable, ug/L (01045)	Lead, water, fltrd, ug/L (01049)
APR													
25...	0.028	2.2	--	--	--	--	--	--	--	--	--	--	--
25...	0.030	2.1	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	2.6	9.2	--	--	--	--	--	--	--	--	--
JUN													
20...	0.074	2.2	--	--	--	--	--	--	--	--	--	--	--
20...	0.097	2.4	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	15.1	51.8	--	--	--	--	--	--	--	--	--
JUL													
30...	0.060	2.3	--	--	--	--	--	--	--	--	--	--	--
30...	0.069	2.4	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	14.9	39.8	--	--	--	--	--	--	--	--	--
AUG													
27...	0.060	2.5	--	--	1.4	E2	E.02	0.06	1.4	3.0	<8	430	<0.08
27...	0.056	2.5	--	--	1.4	E1	E.02	0.07	1.4	3.1	<8	460	<0.08
27...	--	--	8.2	26.4	--	--	--	--	--	--	--	--	--
SEP													
30...	0.031	2.3	--	--	--	--	--	--	--	--	--	--	--
30...	0.033	2.3	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	5.0	10.7	--	--	--	--	--	--	--	--	--

PUEBLO RESERVOIR NEAR PUEBLO, CO—Continued

381559104465500 PUEBLO RESERVOIR SITE 5C--CONTINUED

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

Date	Lead, water, unfltrd recover -able, ug/L (01051)	Mangan- ese, water, fltrd, ug/L (01056)	Mangan- ese, water, unfltrd recover -able, ug/L (01055)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover -able, ug/L (01092)
APR					
25...	--	--	--	--	--
25...	--	--	--	--	--
25...	--	--	--	--	--
JUN					
20...	--	--	--	--	--
20...	--	--	--	--	--
20...	--	--	--	--	--
JUL					
30...	--	--	--	--	--
30...	--	--	--	--	--
30...	--	--	--	--	--
AUG					
27...	1.45	1.1	57	E.9	5
27...	1.53	0.7	54	1	6
27...	--	--	--	--	--
SEP					
30...	--	--	--	--	--
30...	--	--	--	--	--
30...	--	--	--	--	--

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

PUEBLO RESERVOIR NEAR PUEBLO, CO—Continued

WATER-QUALITY RECORDS

381548104453300 PUEBLO RESERVOIR SITE 6C

LOCATION.--Lat 38°15'48", long 104°45'33", in NE¼ SE¼ sec.34, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, at approximate center of transect approximately 0.2 mi downstream from Rock Creek, 1.2 mi downstream from Peck Creek, 2.0 mi upstream from Pueblo Dam on Arkansas River, and 8.4 mi west of the Pueblo County Courthouse.

PERIOD OF RECORD.--June 1988 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=381548104453300

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

Date	Time	Sampling depth, feet (00003)	Transparency water unfltrd secchi disc feet (49701)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
APR							
25...	1030	0.10	6.0	8.0	8.0	651	10.8
25...	1033	6.00	--	7.8	8.0	651	10.7
25...	1034	12.0	--	7.7	8.0	654	10.4
25...	1036	18.0	--	7.7	8.0	654	10.3
25...	1037	24.0	--	7.6	8.0	654	10.2
25...	1039	30.0	--	7.6	8.0	654	10.2
25...	1040	36.0	--	7.6	8.0	654	10.2
25...	1041	42.0	--	7.5	8.0	654	10.2
25...	1042	48.0	--	7.4	8.0	654	9.9
25...	1043	54.0	--	7.3	8.0	654	9.9
25...	1045	57.0	--	7.0	7.9	654	9.9
JUN							
03...	1140	0.10	2.0	6.3	8.0	471	19.5
03...	1141	6.00	--	6.3	8.1	469	19.4
03...	1142	12.0	--	6.2	8.1	466	19.2
03...	1143	18.0	--	6.1	8.1	458	19.1
03...	1144	24.0	--	5.5	8.0	398	18.0
03...	1145	30.0	--	5.1	7.9	381	17.1
03...	1146	36.0	--	5.1	8.0	289	16.4
03...	1147	42.0	--	4.9	7.9	301	16.2
03...	1148	48.0	--	4.8	7.9	292	15.5
20...	1056	0.10	3.5	8.2	8.7	295	20.8
20...	1059	6.00	--	8.0	8.6	290	19.6
20...	1101	12.0	--	7.4	8.4	298	19.4
20...	1103	18.0	--	6.8	8.1	277	19.2
20...	1105	24.0	--	5.8	7.9	294	18.5
20...	1106	30.0	--	5.8	7.9	272	18.1
20...	1107	36.0	--	5.7	7.9	274	17.8
20...	1109	42.0	--	5.8	7.9	278	17.2
20...	1111	46.0	--	5.9	7.9	278	17.0
JUL							
30...	0942	0.10	3.0	6.6	8.2	339	24.2
30...	0943	6.00	--	6.4	8.2	339	24.0
30...	0945	12.0	--	6.1	8.1	339	23.9
30...	0947	18.0	--	5.9	8.1	339	23.8
30...	0948	24.0	--	5.6	8.0	339	23.7
30...	0950	30.0	--	3.9	7.6	340	23.1
30...	0951	36.0	--	3.7	7.6	342	22.9
30...	0954	41.5	--	3.6	7.5	344	22.6
AUG							
27...	0920	0.10	2.5	6.0	8.2	371	23.2
27...	0921	6.00	--	6.0	8.3	371	23.1
27...	0922	12.0	--	5.9	8.3	372	23.1
27...	0924	18.0	--	5.5	8.2	370	23.0
27...	0925	24.0	--	4.8	8.1	366	22.8
27...	0926	30.0	--	4.6	8.0	369	22.8
27...	0927	36.0	--	4.2	8.0	374	22.8
27...	0929	40.5	--	3.5	7.8	374	22.7
SEP							
30...	0912	0.10	2.0	7.3	8.3	418	17.8
30...	0913	6.00	--	7.3	8.3	419	17.8
30...	0914	12.0	--	7.3	8.3	419	17.8
30...	0915	18.0	--	7.0	8.3	418	17.7
30...	0916	24.0	--	6.8	8.2	418	17.6
30...	0917	30.0	--	6.8	8.2	418	17.6
30...	0918	36.0	--	6.7	8.2	418	17.6
30...	0919	38.5	--	6.6	8.2	418	17.6

PUEBLO RESERVOIR NEAR PUEBLO, CO—Continued

WATER-QUALITY RECORDS

381602104435200 PUEBLO RESERVOIR SITE 7B

LOCATION.--Lat 38°16'02", long 104°43'52", in SE¼ NW¼ sec.36, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, at approximate center of transect approximately 0.3 mi downstream from Boggs Creek, 0.4 mi upstream from Pueblo Dam on Arkansas River, and 6.8 mi west of the Pueblo County Courthouse.

PERIOD OF RECORD.--June 1988 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=381602104435200

REMARKS.--Chlorophyll samples were composited from samples collected at the surface, at the transparency depth (secchi disk), and at twice the transparency depth.

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

Date	Time	Sampling depth, feet (00003)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
APR						
25...	0946	0.10	8.0	7.9	652	10.3
25...	0947	3.00	8.0	7.9	652	10.3
25...	0948	6.00	8.0	7.9	652	10.2
25...	0950	9.00	8.0	7.9	652	10.2
25...	0951	12.0	8.0	7.9	652	10.2
25...	0952	15.0	8.0	7.9	652	10.1
25...	0953	18.0	8.0	7.9	652	10.1
25...	0954	21.0	8.0	7.9	652	10.1
25...	0955	24.0	8.0	7.9	652	10.1
25...	0956	27.0	8.0	7.9	652	10.1
25...	0957	30.0	8.0	7.9	652	10.1
25...	0958	33.0	8.0	7.9	652	10.1
25...	0959	36.0	8.0	7.9	652	10.1
25...	1001	39.0	7.9	7.9	652	10.1
25...	1002	42.0	7.9	7.9	652	10.1
25...	1003	45.0	7.9	7.9	652	10.0
25...	1004	48.0	7.9	7.9	652	10.0
25...	1005	51.0	7.9	7.9	652	10.0
25...	1006	54.0	7.9	7.9	652	10.0
25...	1007	57.0	7.9	7.9	652	10.0
25...	1008	60.0	7.8	7.9	652	9.9
25...	1009	63.0	7.8	7.9	652	9.9
25...	1010	66.0	7.8	7.9	652	9.9
25...	1011	69.0	7.8	7.9	652	9.9
25...	1012	72.0	7.7	7.9	652	9.9
25...	1013	75.0	7.7	7.9	653	9.9
25...	1014	78.0	7.6	7.9	653	9.9
25...	1015	80.0	7.3	7.9	654	9.8

PUEBLO RESERVOIR NEAR PUEBLO, CO—Continued

381602104435200 PUEBLO RESERVOIR SITE 7B--CONTINUED

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

Date	Time	Sampling depth, feet (00003)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
JUN						
03...	1101	0.10	6.4	7.9	473	19.1
03...	1102	3.00	6.3	7.9	474	19.1
03...	1103	6.00	6.2	8.0	477	19.0
03...	1104	9.00	6.1	8.0	482	18.9
03...	1105	12.0	6.0	8.0	489	18.6
03...	1106	15.0	5.8	7.9	471	18.5
03...	1107	18.0	5.6	7.9	440	18.0
03...	1108	21.0	5.3	7.9	389	17.7
03...	1109	24.0	5.3	7.8	383	17.6
03...	1110	27.0	5.3	7.8	382	17.6
03...	1111	30.0	5.2	7.8	373	17.5
03...	1112	33.0	5.2	7.8	369	17.3
03...	1113	36.0	5.1	7.8	441	16.7
03...	1114	39.0	5.0	7.8	401	16.3
03...	1115	42.0	5.0	7.8	390	16.2
03...	1116	45.0	5.0	7.8	384	16.2
03...	1117	48.0	4.9	7.8	424	15.9
03...	1118	51.0	5.0	7.8	640	15.1
03...	1119	54.0	5.0	7.8	660	14.4
03...	1120	57.0	4.8	7.7	662	14.1
03...	1121	60.0	4.8	7.7	668	13.6
03...	1122	63.0	4.6	7.7	668	13.5
03...	1123	66.0	4.6	7.7	671	13.3
03...	1124	69.0	4.4	7.7	672	13.1
03...	1125	72.0	4.0	7.7	673	12.9
20...	0946	0.10	7.4	8.5	340	19.8
20...	0947	3.00	7.5	8.5	340	19.4
20...	0948	6.00	7.5	8.4	340	19.3
20...	0949	9.00	7.4	8.4	341	19.3
20...	0950	12.0	7.3	8.4	341	19.3
20...	0951	15.0	7.3	8.4	342	19.3
20...	0952	18.0	7.3	8.4	344	19.2
20...	0953	21.0	7.0	8.3	346	19.1
20...	0954	24.0	6.3	8.0	352	18.9
20...	0955	27.0	6.0	8.0	352	18.8
20...	0956	30.0	5.6	7.8	353	18.6
20...	0957	33.0	5.1	7.7	345	18.2
20...	0958	36.0	4.7	7.7	331	17.8
20...	0959	39.0	4.6	7.7	321	17.7
20...	1001	42.0	4.4	7.7	323	17.4
20...	1002	45.0	4.2	7.7	330	17.2
20...	1003	48.0	4.0	7.7	340	16.9
20...	1004	51.0	3.5	7.7	352	16.4
20...	1005	54.0	3.4	7.7	358	16.3
20...	1006	57.0	3.2	7.6	373	16.0
20...	1007	60.0	2.9	7.6	390	15.7
20...	1009	63.0	2.7	7.6	400	15.6
20...	1011	66.0	2.2	7.5	421	15.2
20...	1012	69.0	1.5	7.5	440	14.8
20...	1014	70.0	1.0	7.4	455	14.6
JUL						
30...	0848	0.10	5.4	8.0	336	23.6
30...	0849	3.00	5.4	7.9	337	23.6
30...	0850	6.00	5.4	7.9	337	23.6
30...	0851	9.00	5.3	7.9	337	23.6
30...	0852	12.0	5.2	7.9	337	23.5
30...	0853	15.0	5.0	7.9	337	23.5
30...	0854	18.0	4.9	7.9	337	23.5
30...	0855	21.0	4.9	7.9	337	23.5
30...	0856	24.0	4.9	7.9	337	23.4
30...	0857	27.0	4.8	7.9	337	23.4
30...	0858	30.0	4.8	7.8	337	23.3
30...	0859	33.0	4.8	7.8	337	23.3
30...	0901	36.0	4.8	7.8	337	23.2
30...	0902	39.0	3.8	7.7	337	22.8
30...	0904	42.0	3.2	7.6	337	22.7
30...	0906	45.0	2.3	7.5	337	22.5
30...	0908	48.0	1.4	7.4	337	22.1
30...	0909	51.0	0.7	7.4	337	21.4
30...	0911	54.0	0.6	7.4	337	21.2
30...	0914	57.0	0.2	7.4	337	20.4

PUEBLO RESERVOIR NEAR PUEBLO, CO—Continued

381602104435200 PUEBLO RESERVOIR SITE 7B--CONTINUED

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

Date	Time	Sampling depth, feet (00003)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
JUL						
30...	0917	60.0	0.1	7.4	337	20.0
30...	0920	63.0	0.0	7.4	337	19.6
30...	0922	66.0	0.0	7.4	337	19.2
AUG						
27...	0831	0.10	6.4	8.3	362	23.1
27...	0832	3.00	6.4	8.3	362	23.1
27...	0833	6.00	6.4	8.4	362	23.1
27...	0834	9.00	6.4	8.4	362	23.1
27...	0835	12.0	6.4	8.4	362	23.1
27...	0836	15.0	6.4	8.4	362	23.1
27...	0837	18.0	6.4	8.4	362	23.1
27...	0838	21.0	6.4	8.4	362	23.1
27...	0839	24.0	6.3	8.4	362	23.1
27...	0840	27.0	6.3	8.4	362	23.0
27...	0841	30.0	6.2	8.4	362	23.0
27...	0842	33.0	6.1	8.4	362	22.9
27...	0843	36.0	5.6	8.2	362	22.8
27...	0844	39.0	5.3	8.2	362	22.8
27...	0846	42.0	5.3	8.2	362	22.7
27...	0847	45.0	5.1	8.1	362	22.7
27...	0848	48.0	4.6	8.0	362	22.7
27...	0849	51.0	4.1	7.9	362	22.6
27...	0850	54.0	3.3	7.8	364	22.6
27...	0851	57.0	2.8	7.8	363	22.5
27...	0852	60.0	2.3	7.7	363	22.4
27...	0853	63.0	1.0	7.6	364	22.1
27...	0854	64.5	1.0	7.6	365	22.0
SEP						
30...	0837	0.10	6.3	8.0	410	17.4
30...	0838	3.00	6.4	8.1	410	17.4
30...	0839	6.00	6.4	8.1	411	17.4
30...	0840	9.00	6.4	8.2	411	17.4
30...	0841	12.0	6.4	8.2	411	17.4
30...	0842	15.0	6.4	8.2	411	17.4
30...	0843	18.0	6.4	8.2	411	17.4
30...	0844	21.0	6.4	8.2	411	17.4
30...	0846	24.0	6.4	8.2	411	17.4
30...	0847	27.0	6.4	8.2	411	17.4
30...	0848	30.0	6.4	8.2	411	17.4
30...	0849	33.0	6.4	8.2	411	17.4
30...	0850	36.0	6.3	8.2	410	17.4
30...	0851	39.0	6.2	8.2	410	17.4
30...	0852	42.0	6.2	8.2	410	17.4
30...	0853	45.0	6.1	8.2	410	17.4
30...	0854	48.0	6.0	8.2	410	17.4
30...	0855	51.0	5.9	8.1	410	17.4
30...	0856	54.0	5.9	8.1	410	17.4
30...	0857	57.0	5.9	8.1	410	17.4
30...	0858	60.0	5.9	8.1	410	17.4
30...	0859	63.0	5.3	8.0	412	17.3

PUEBLO RESERVOIR NEAR PUEBLO, CO—Continued

381602104435200 PUEBLO RESERVOIR SITE 7B--CONTINUED

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

Date	Time	Sampling depth, feet (00003)	Transparency water unfltrd secchi disc feet (49701)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduct-ance, wat unf uS/cm 25 degC (00095)	Temperature, 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-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)
APR													
25...	0915	0.10	--	--	8.0	7.9	652	10.3	0.059	0.223	0.005	<0.007	0.006
25...	0930	75.0	--	--	7.7	7.9	653	9.9	0.061	0.223	0.006	<0.007	0.006
25...	1000	--	9.5	2.7	--	--	--	--	--	--	--	--	--
JUN													
20...	0930	0.10	--	--	7.4	8.5	340	19.8	E.013	0.175	0.020	<0.007	0.007
20...	0945	67.0	--	--	2.2	7.5	421	15.2	0.016	0.230	0.017	<0.007	0.007
20...	1030	--	5.5	4.9	--	--	--	--	--	--	--	--	--
JUL													
30...	0815	0.10	--	--	5.4	8.0	336	23.6	0.026	0.056	0.005	<0.007	0.006
30...	0830	65.0	--	--	0.0	7.4	337	19.2	0.035	0.089	0.004	<0.007	0.006
30...	0900	--	3.5	2.9	--	--	--	--	--	--	--	--	--
AUG													
27...	0815	0.10	--	--	6.4	8.3	362	23.1	E.014	0.031	0.003	<0.007	E.004
27...	0830	60.0	--	--	2.3	7.7	363	22.4	0.025	0.038	E.002	<0.007	0.005
27...	0900	--	5.0	3.1	--	--	--	--	--	--	--	--	--
SEP													
30...	0815	0.10	--	--	6.3	8.0	410	17.4	0.015	0.127	0.011	E.004	0.008
30...	0830	60.0	--	--	5.9	8.1	410	17.4	E.014	0.126	0.012	E.004	0.008
30...	0900	--	2.5	7.2	--	--	--	--	--	--	--	--	--

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

Date	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, fltrd, mg/L (00681)	Pheophytin a, phyto-plankton, ug/L (62360)	Chlorophyll a phyto-plankton, fluoro, ug/L (70953)	Arsenic water, fltrd, ug/L (01000)	Arsenic water unfltrd ug/L (01002)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recover-able, ug/L (01045)	Lead, water, fltrd, ug/L (01049)
APR													
25...	0.011	2.1	--	--	--	--	--	--	--	--	--	--	--
25...	0.015	2.1	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	0.3	0.8	--	--	--	--	--	--	--	--	--
JUN													
20...	0.020	2.3	--	--	--	--	--	--	--	--	--	--	--
20...	0.030	2.4	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	2.0	7.5	--	--	--	--	--	--	--	--	--
JUL													
30...	0.015	2.3	--	--	--	--	--	--	--	--	--	--	--
30...	0.019	2.2	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	1.3	3.9	--	--	--	--	--	--	--	--	--
AUG													
27...	0.017	--	--	--	1.2	<2	<0.04	E.02	1.4	2.5	<8	70	<0.08
27...	0.018	2.3	--	--	1.3	E.9	E.02	E.03	1.3	2.6	<8	110	<0.08
27...	--	--	4.9	7.2	--	--	--	--	--	--	--	--	--
SEP													
30...	0.023	2.2	--	--	--	--	--	--	--	--	--	--	--
30...	0.024	2.3	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	1.8	3.7	--	--	--	--	--	--	--	--	--

PUEBLO RESERVOIR NEAR PUEBLO, CO—Continued

381602104435200 PUEBLO RESERVOIR SITE 7B--CONTINUED

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

Date	Lead, water, unfltrd recover -able, ug/L (01051)	Mangan- ese, water, fltrd, ug/L (01056)	Mangan- ese, water, unfltrd recover -able, ug/L (01055)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover -able, ug/L (01092)
APR					
25...	--	--	--	--	--
25...	--	--	--	--	--
25...	--	--	--	--	--
JUN					
20...	--	--	--	--	--
20...	--	--	--	--	--
20...	--	--	--	--	--
JUL					
30...	--	--	--	--	--
30...	--	--	--	--	--
30...	--	--	--	--	--
AUG					
27...	0.24	0.3	11	E.8	E2
27...	0.35	0.6	18	E.7	2
27...	--	--	--	--	--
SEP					
30...	--	--	--	--	--
30...	--	--	--	--	--
30...	--	--	--	--	--

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

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO

LOCATION.--Lat 38°16'18", long 104°43'03", in NE¼NE¼ sec.36, T.20 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on left bank 200 ft downstream from northeast corner of Arkansas River bridge, 0.4 mi downstream from Pueblo Dam, and 7 mi west of Pueblo.

DRAINAGE AREA.--4,670 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to current year. Statistical summary computed for 1975 to current year subsequent to completion of Pueblo Reservoir. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07099400

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,740 ft above NGVD of 1929, from topographic map. Prior to Mar. 23, 1967, at site 730 ft upstream at datum 2.23 ft higher. Mar. 24, 1967 to May 23 1974 at present site at datum 1.00 ft higher. May 24, 1974 to Feb. 24, 1975, at site 2,000 ft downstream, at different datum. Feb. 25, 1975 to Sept. 30, 2001, at or within 50 ft of present location at datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. Flow completely regulated by Pueblo Reservoir (station 07099350) 0.4 mi upstream since Jan. 9, 1974.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.55	82	0.46	1.3	20	27	e91	181	4,020	816	280	223
2	e0.55	82	0.45	1.3	21	27	211	144	4,530	759	400	165
3	e25	82	0.57	1.2	21	27	239	142	4,690	607	376	91
4	103	93	0.57	1.3	22	28	256	142	4,160	581	367	84
5	103	102	0.57	1.3	22	27	290	156	3,400	690	368	105
6	104	102	0.61	1.4	23	27	309	165	2,100	693	383	117
7	103	103	0.64	1.4	22	27	310	165	1,570	692	387	133
8	95	103	0.59	1.5	23	27	261	69	1,260	689	197	167
9	53	103	0.63	1.7	23	27	237	37	1,020	689	141	214
10	32	103	0.66	1.7	23	27	237	60	953	685	141	255
11	26	103	0.75	1.6	26	27	233	55	1,360	567	138	285
12	8.7	103	0.82	1.7	27	27	224	55	1,590	502	138	328
13	1.3	103	0.71	1.7	27	28	224	178	1,630	499	136	342
14	1.3	93	0.68	1.8	27	27	213	252	1,710	523	145	332
15	4.6	1.5	0.67	1.6	27	27	196	269	1,710	556	149	331
16	9.0	0.84	0.73	8.3	27	27	196	357	1,700	516	135	297
17	1.0	0.62	0.65	20	26	27	196	559	1,650	488	135	220
18	1.0	0.60	0.76	20	27	58	178	589	1,590	428	136	137
19	1.1	0.47	0.79	20	27	108	232	639	1,600	393	136	113
20	1.1	0.53	0.77	20	27	160	232	758	1,450	303	136	146
21	1.1	0.52	0.77	20	27	180	210	952	1,520	262	135	151
22	1.1	0.45	0.81	20	27	180	211	1,030	1,620	264	135	126
23	8.5	0.50	0.96	20	28	180	229	1,080	1,390	264	e135	113
24	15	0.52	1.0	20	28	147	230	1,260	1,210	243	e135	88
25	15	0.56	1.1	20	27	126	210	1,580	1,110	217	e160	66
26	16	0.46	1.0	20	27	125	139	1,990	973	186	e185	48
27	16	0.50	0.92	20	27	126	140	2,030	893	176	184	42
28	33	0.54	1.0	20	27	104	141	2,010	892	192	203	40
29	e60	0.50	1.1	20	---	89	142	2,220	893	241	237	40
30	e82	0.50	1.2	20	---	69	175	2,690	859	263	309	40
31	82	---	1.3	20	---	e56	---	3,290	---	247	278	---
TOTAL	1,003.90	1,366.61	24.24	330.8	706	2,169	6,392	25,104	55,053	14,231	6,520	4,839
MEAN	32.4	45.6	0.78	10.7	25.2	70.0	213	810	1,835	459	210	161
MAX	104	103	1.3	20	28	180	310	3,290	4,690	816	400	342
MIN	0.55	0.45	0.45	1.2	20	27	91	37	859	176	135	40
AC-FT	1,990	2,710	48	656	1,400	4,300	12,680	49,790	109,200	28,230	12,930	9,600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2003, BY WATER YEAR (WY)

MEAN	338	247	153	167	201	308	574	1,151	2,292	1,562	986	432
MAX	1,103	505	553	558	837	718	1,389	2,564	4,219	4,110	2,716	1,040
(WY)	(1985)	(1985)	(1987)	(1985)	(1985)	(1985)	(1985)	(1984)	(1980)	(1995)	(1984)	(1982)
MIN	32.4	45.6	0.78	10.7	25.2	70.0	125	374	386	281	16.5	4.10
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(1978)	(1978)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1975 - 2003	
ANNUAL TOTAL	51,811.06		117,739.55			
ANNUAL MEAN	142		323		a703	
HIGHEST ANNUAL MEAN					1,227	1984
LOWEST ANNUAL MEAN					174	2002
HIGHEST DAILY MEAN	870	Jun 9	4,690	Jun 3	b5,910	Jun 23, 1997
LOWEST DAILY MEAN	0.45	Nov 22	0.45	Nov 22	c0.45	Nov 22, 2002
ANNUAL SEVEN-DAY MINIMUM	0.49	Nov 26	0.49	Nov 26	0.49	Nov 26, 2002
MAXIMUM PEAK FLOW			4,760	Jun 3	d6,060	Jun 23, 1997
MAXIMUM PEAK STAGE			7.20	Jun 3	f7.29	Jun 23, 1997
ANNUAL RUNOFF (AC-FT)	102,800		233,500		509,100	
10 PERCENT EXCEEDS	356		952		1,780	
50 PERCENT EXCEEDS	107		103		368	
90 PERCENT EXCEEDS	0.58		0.80		86	

e Estimated.
a Average discharge for 8 years (water years 1966-73), 643 ft^3/s; 465,900 acre-ft/yr, prior to completion of Pueblo Dam.
b Also the maximum daily discharge for period of record.
c Also occurred Dec 2, 2002. Also minimum daily discharge for period of record.
d Maximum discharge for period of record, 10,100 ft^3/s, Aug 1, 1966, from rating curve extended above 1,600 ft^3/s, on basis of slope-area measurement of peak flow.
f Datum then in use; maximum gage height, 7.57 ft, Jun 14, 1985, datum then in use; maximum gage height for period of record, 13.12 ft, Aug 1, 1966, site and datum then in use.

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1965 to September 1970, December 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=07099400

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1985 to current year.
WATER TEMPERATURE: December 1985 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Daily specific-conductance records are good except for Oct. 1, 12, 15-16, 23, Jan. 16, Apr. 27, 29, and May 8, which are fair. Daily water-temperature records are good except for Oct. 1, 12-23, and Nov. 16 to Jan. 16, which are fair. Daily data that are not published are either missing or of unacceptable quality. Specific conductance data may not be representative of the river at the site during periods of transient hydrologic conditions caused by abrupt flow changes from Pueblo Reservoir.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,670 microsiemens/cm, Sept. 30, 2002; minimum, 223 microsiemens/cm, July 13, 1986.
WATER TEMPERATURE: Maximum, 26.9°C, Aug. 31, Sept. 5, 2002; minimum, 0.8°C, Dec. 26, 2003.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 808 microsiemens/cm, Nov. 16, but was probably higher during periods of unreliable record, Oct. 1, 12-30, and Nov. 17 to Jan. 16; minimum, 315 microsiemens/cm, June 22.
WATER TEMPERATURE: Maximum, 23.4°C, Aug. 17; minimum, 0.8°C, Dec. 26.

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

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, 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)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, fltrd, mg/L (00681)
APR													
23...	1315	225	10.3	8.4	643	10.0	0.048	0.223	0.007	<0.007	0.005	0.015	2.1
JUN													
18...	1300	1,590	9.0	8.0	355	17.5	E.011	0.362	0.017	E.006	0.011	0.065	2.2
JUL													
31...	1215	237	8.5	8.1	342	22.0	0.065	0.182	0.005	0.008	0.014	0.034	2.3
AUG													
26...	0915	191	7.8	8.3	366	22.5	0.072	0.089	E.002	E.004	0.009	0.031	2.3
SEP													
29...	1000	40	9.7	8.4	419	17.5	E.011	0.107	0.008	E.004	0.006	0.021	2.2

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

WATER-QUALITY DATA COLLECTED AS PART OF PREFERRED STORAGE OPTIONS PLAN, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)
DEC													
17...	1030	0.72	9.3	8.1	822	4.5	95.7	28.0	3.54	44.0	E177	11.7	0.81
MAR													
10...	1210	27	12.0	8.5	653	6.0	70.3	22.8	3.08	36.0	138	10.9	0.63
MAY													
28...	0745	2,020	8.9	8.3	660	14.5	65.1	20.8	3.17	34.1	137	13.4	0.6
AUG													
26...	0915	191	7.8	8.3	366	22.5	43.1	10.4	2.17	15.8	95	5.91	0.5

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO—Continued

WATER-QUALITY DATA COLLECTED AS PART OF PREFERRED STORAGE OPTIONS PLAN,
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Sulfate water, fltrd, mg/L (00945)
DEC	
17...	248
MAR	
10...	182
MAY	
28...	182
AUG	
26...	77.8

E -- Estimated laboratory analysis value.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	697	---	681	665	673	---	---	---	---	---	---
2	700	675	688	683	666	675	---	---	---	---	---	---
3	682	662	672	679	659	672	---	---	---	---	---	---
4	669	661	666	675	659	668	---	---	---	---	---	---
5	670	664	668	673	658	667	---	---	---	---	---	---
6	671	665	668	674	657	668	---	---	---	---	---	---
7	671	664	668	673	651	666	---	---	---	---	---	---
8	687	663	671	674	657	668	---	---	---	---	---	---
9	750	670	698	673	651	666	---	---	---	---	---	---
10	732	680	702	673	656	668	---	---	---	---	---	---
11	778	683	713	673	652	667	---	---	---	---	---	---
12	---	705	---	673	655	667	---	---	---	---	---	---
13	---	---	---	673	660	668	---	---	---	---	---	---
14	---	---	---	680	661	674	---	---	---	---	---	---
15	---	718	---	715	679	692	---	---	---	---	---	---
16	---	684	---	808	715	754	---	---	---	---	680	---
17	---	---	---	---	---	---	---	---	---	687	669	678
18	---	---	---	---	---	---	---	---	---	688	673	680
19	---	---	---	---	---	---	---	---	---	694	679	685
20	---	---	---	---	---	---	---	---	---	712	683	690
21	---	---	---	---	---	---	---	---	---	690	675	681
22	---	---	---	---	---	---	---	---	---	682	676	679
23	---	709	---	---	---	---	---	---	---	686	670	680
24	---	---	---	---	---	---	---	---	---	688	673	679
25	---	---	---	---	---	---	---	---	---	690	673	680
26	---	---	---	---	---	---	---	---	---	686	672	681
27	---	---	---	---	---	---	---	---	---	703	679	686
28	---	---	---	---	---	---	---	---	---	692	676	684
29	---	---	---	---	---	---	---	---	---	690	671	681
30	---	---	---	---	---	---	---	---	---	696	672	680
31	680	672	676	---	---	---	---	---	---	692	673	681
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	685	673	680	684	665	677	661	644	655	659	649	654
2	696	675	684	683	673	678	662	642	647	658	652	655
3	688	670	679	710	668	677	648	644	646	657	653	655
4	689	670	677	679	669	675	647	644	645	660	652	656
5	685	672	678	677	666	674	646	643	645	660	653	657
6	683	672	678	683	667	675	646	643	645	659	654	656
7	682	670	675	683	665	673	648	644	646	660	654	657
8	678	667	674	680	667	674	660	644	648	748	439	691
9	678	668	674	681	666	675	649	645	647	729	662	700
10	701	672	678	678	666	674	651	646	649	681	667	675
11	674	665	671	681	664	674	654	647	650	687	674	679
12	679	665	671	687	667	676	653	647	650	687	675	681
13	675	666	671	690	665	676	652	648	650	686	654	666
14	680	669	675	682	666	674	654	648	651	660	656	658
15	679	666	673	681	668	675	654	646	650	661	657	659
16	678	670	674	679	670	674	652	642	647	662	656	659
17	696	670	677	684	669	676	653	647	650	660	656	658
18	677	667	672	682	645	660	654	646	651	660	656	659
19	677	668	673	652	640	645	652	642	648	661	656	659
20	676	665	672	646	638	642	652	646	649	662	659	661
21	676	666	672	646	639	642	652	646	649	663	658	660
22	681	666	673	652	641	646	652	647	649	663	659	661
23	683	668	676	661	646	653	656	646	650	665	660	662
24	680	664	672	667	653	661	651	645	648	665	661	663
25	676	665	672	663	647	656	657	645	649	666	661	664
26	676	665	672	664	648	655	655	650	653	667	665	666
27	680	665	674	659	644	648	655	648	652	668	662	666
28	681	668	677	652	644	649	---	---	---	672	661	666
29	---	---	---	651	646	649	657	651	655	665	661	664
30	---	---	---	662	646	656	657	648	652	670	658	665
31	---	---	---	662	654	658	---	---	---	667	599	655
MONTH	701	664	675	710	638	664	---	---	---	748	439	664
		JUNE			JULY			AUGUST			SEPTEMBER	
1	636	563	601	328	322	325	360	356	358	396	389	392
2	633	407	513	333	320	325	362	358	359	417	394	403
3	488	412	448	332	319	326	364	359	362	436	402	418
4	468	381	430	331	322	326	369	357	361	431	410	420
5	471	417	444	330	323	327	361	357	359	421	413	418
6	447	391	424	331	326	328	361	357	360	419	408	414
7	444	343	413	331	325	328	363	359	361	419	412	415
8	441	398	425	331	327	329	381	362	370	419	398	408
9	456	396	413	330	325	327	370	364	368	404	399	402
10	467	386	416	330	327	329	370	365	368	408	403	405
11	425	381	400	336	328	331	369	364	367	404	400	402
12	404	364	387	335	330	333	369	364	367	406	401	404
13	405	372	388	335	331	333	369	365	367	410	406	408
14	390	380	385	334	331	333	370	363	367	411	409	410
15	386	366	376	335	331	333	371	364	367	414	410	411
16	377	362	370	336	332	334	371	366	369	416	410	414
17	377	358	368	338	333	336	373	367	370	419	414	417
18	372	354	360	340	336	338	374	368	371	427	415	422
19	359	330	350	342	337	340	376	370	373	427	419	423
20	350	330	342	345	339	342	377	370	374	422	414	419
21	347	329	334	346	340	343	377	372	375	421	416	419
22	333	315	326	348	342	345	380	375	377	427	419	422
23	336	322	328	349	344	347	381	376	378	427	423	425
24	337	321	327	353	345	349	381	376	379	433	423	428
25	345	316	327	356	349	352	380	376	378	433	426	430
26	331	321	325	358	351	355	381	376	379	452	430	446
27	329	322	326	359	353	356	382	378	380	455	444	450
28	333	318	326	360	354	357	383	378	381	461	447	453
29	332	316	324	360	349	354	386	380	382	461	444	453
30	330	323	326	356	352	354	386	379	383	462	446	453
31	---	---	---	359	354	356	392	385	388	---	---	---
MONTH	636	315	384	360	319	338	392	356	371	462	389	420

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.9	13.4	16.0	11.1	10.9	11.0	9.0	2.8	6.0	6.5	3.5	4.8
2	17.3	16.3	16.8	11.3	10.6	10.9	9.3	4.0	6.5	6.6	2.6	4.7
3	18.1	16.7	17.2	11.0	9.8	10.3	6.3	2.9	4.6	8.2	3.0	5.5
4	17.9	16.7	17.1	10.4	9.6	9.8	5.6	3.0	4.6	6.9	4.5	5.9
5	17.7	16.4	16.8	10.8	9.5	9.9	6.6	4.8	5.5	6.1	3.7	5.1
6	17.5	16.3	16.7	10.7	9.6	10	7.4	2.7	5.1	9.3	5.5	7.0
7	17.4	16.2	16.6	10.6	9.5	9.8	7.8	3.2	5.4	8.7	3.8	6.4
8	17.3	16.1	16.4	10.4	9.6	9.8	7.7	4.1	5.6	9.1	4.5	6.5
9	18.2	15.8	16.6	10.5	9.4	9.8	7.0	2.3	4.6	7.3	3.5	5.5
10	18.2	15.4	16.3	10.0	9.0	9.3	7.2	2.5	4.8	6.1	2.4	4.3
11	18.6	14.9	16.3	9.9	8.8	9.2	7.8	2.9	5.4	4.1	3.0	3.5
12	17.9	13.4	15.5	9.6	8.6	9.0	7.7	3.4	5.7	7.9	3.2	5.2
13	18.3	10.5	14.1	9.6	8.9	9.1	8.2	3.2	5.5	8.8	3.0	5.8
14	17.4	10.7	13.9	9.3	8.6	9.0	8.3	3.1	5.7	7.2	3.8	5.5
15	17.0	9.6	13.1	10.2	6.5	8.2	6.6	4.4	5.6	7.8	2.8	5.3
16	17.1	---	---	10.3	3.3	6.4	7.6	2.3	5.4	6.0	2.4	3.7
17	17.1	9.6	13.3	11.0	5.7	7.9	8.2	4.1	5.8	4.9	2.1	3.0
18	17.7	10.2	13.5	11.2	5.9	8.1	6.4	3.7	4.9	4.6	1.7	2.7
19	16.7	10.5	13.2	11.0	4.5	7.2	7.1	3.6	5.0	5.2	1.8	3.1
20	17.4	10.1	13.2	11.0	5.1	7.7	6.6	2.1	4.2	5.6	2.4	3.5
21	---	10.7	12.6	11.9	4.8	8.1	6.3	2.9	4.2	4.8	2.3	3.1
22	14.7	10.3	12.2	11.3	5.1	8.2	5.9	2.1	4.1	2.6	1.9	2.2
23	12.0	8.1	10.6	11.7	4.9	8.2	4.2	2.5	3.4	4.7	1.9	2.6
24	11.6	11.6	11.6	6.8	4.3	5.5	4.4	1.8	2.8	4.5	2.0	2.9
25	---	---	---	6.0	3.4	4.4	4.3	0.9	2.4	5.0	2.1	3.1
26	---	---	---	5.5	1.9	3.6	4.2	0.8	2.3	5.4	1.8	3.2
27	---	---	---	6.1	1.6	3.8	4.4	1.1	2.6	5.6	2.6	3.7
28	---	---	---	7.6	2.7	5.0	5.2	1.9	3.5	5.8	2.5	3.5
29	---	---	---	10.0	4.5	6.8	7.4	3.5	4.9	5.6	2.5	3.5
30	---	---	---	8.7	4.1	6.1	7.6	3.2	5.0	4.4	2.3	3.2
31	11.5	11.0	11.3	---	---	---	6.2	2.3	4.3	5.4	2.8	3.7
MONTH	---	---	---	11.9	1.6	8.1	9.3	0.8	4.7	9.3	1.7	4.2
		FEBRUARY			MARCH			APRIL			MAY	
1	5.6	2.9	3.8	6.0	2.6	3.5	8.6	6.2	7.0	11.1	10.1	10.4
2	5.0	2.8	3.6	6.0	2.6	3.6	8.6	7.0	7.6	11.4	10.1	10.5
3	5.6	2.5	3.5	5.9	2.2	3.7	8.4	7.3	7.7	12.3	10.2	10.9
4	5.4	2.2	3.3	3.4	2.2	2.9	7.8	7.1	7.4	11.9	10.5	11.2
5	5.2	2.3	3.3	5.8	2.2	3.3	7.7	7.0	7.2	12.0	10.8	11.3
6	3.8	1.8	2.5	6.2	2.4	3.8	7.7	7.0	7.2	11.9	10.8	11.2
7	4.6	1.3	2.3	6.8	2.7	4.1	7.7	7.0	7.2	12.1	10.9	11.5
8	4.6	1.0	2.1	7.0	3.1	4.5	8.6	7.0	7.6	14.8	11.0	12.6
9	3.3	1.1	1.9	7.2	3.1	4.6	8.7	6.9	7.6	15.4	10.5	12.0
10	4.5	1.1	2.2	7.3	3.4	4.8	9.1	7.1	7.9	13.3	11.1	12.0
11	4.3	1.4	2.4	7.6	3.5	5.2	8.9	7.1	7.7	13.6	11.1	12.1
12	5.3	1.8	3.1	8.1	4.2	5.5	8.1	7.2	7.5	14.1	11.3	12.4
13	4.3	2.6	3.2	8.4	4.2	5.8	8.2	7.2	7.6	13.1	11.4	12.3
14	4.9	2.7	3.4	8.4	4.4	5.9	8.1	7.2	7.5	13.1	12.1	12.5
15	3.5	2.5	2.9	8.7	4.7	6.1	9.2	7.3	7.8	13.0	12.0	12.5
16	3.7	2.4	2.8	7.2	4.5	5.6	11.1	8.5	9.5	13.2	12.5	12.7
17	5.5	2.4	3.5	5.6	4.8	5.1	9.5	8.5	8.8	13.2	12.5	12.7
18	3.7	2.7	3.1	5.6	4.7	5.1	10.5	8.3	9.3	13.3	12.5	12.8
19	4.9	2.3	3.1	5.4	5.0	5.3	9.5	8.9	9.2	13.0	12.4	12.7
20	4.5	2.0	2.9	6.4	5.2	5.7	10.1	9.1	9.4	13.7	12.8	13.1
21	5.6	2.1	3.2	5.8	5.3	5.6	10.1	9.1	9.4	13.3	12.8	13.0
22	5.6	2.2	3.3	6.3	5.3	5.6	10.2	9.1	9.6	14.0	12.9	13.4
23	4.9	1.8	2.9	6.3	5.2	5.6	10.1	9.0	9.6	14.0	12.9	13.5
24	4.5	1.5	2.3	6.2	5.3	5.6	10.7	9.6	10.0	14.4	12.7	13.7
25	4.7	1.7	2.7	6.6	5.3	5.7	10.8	9.8	10.1	14.2	13.0	13.7
26	4.0	2.2	2.9	6.4	5.1	5.6	11.0	9.7	10.2	14.4	13.5	14.0
27	5.6	2.3	3.4	7.7	5.6	6.5	---	9.8	---	14.4	13.9	14.2
28	4.5	2.2	3.1	7.3	6.0	6.5	---	---	---	14.8	14.0	14.4
29	---	---	---	7.2	5.8	6.2	11.3	9.9	10.7	15.2	13.8	14.6
30	---	---	---	8.0	5.7	6.4	11.1	9.9	10.3	15.4	14.2	14.9
31	---	---	---	8.2	5.8	6.7	---	---	---	15.8	14.5	15.2
MONTH	5.6	1.0	3.0	8.7	2.2	5.2	---	---	---	15.8	10.1	12.7

07099400 ARKANSAS RIVER ABOVE PUEBLO, CO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.1	15.4	16.2	18.8	17.9	18.3	22.1	20.8	21.4	22.7	21.8	22.1
2	16.5	15.5	16.1	19.0	17.8	18.4	22.1	21.3	21.7	22.7	21.5	22.0
3	16.6	15.9	16.2	19.3	17.7	18.4	22.3	21.4	21.8	22.2	21.2	21.5
4	16.9	15.6	16.4	19.3	17.9	18.5	22.3	21.5	22.0	22.5	20.9	21.5
5	17.2	16.0	16.7	18.9	18.0	18.6	22.5	21.7	22.0	22.6	21.0	21.5
6	16.7	15.2	16.2	19.1	18.2	18.5	22.6	21.7	22.1	22.3	21.2	21.5
7	16.5	15.2	16.1	19.2	18.2	18.7	22.5	21.8	22.1	21.9	21.2	21.4
8	16.3	15.5	16.0	19.4	18.4	18.8	22.9	21.3	22.0	22.3	21.1	21.5
9	16.3	15.5	15.9	19.4	18.3	18.9	22.8	21.3	21.9	21.7	21.1	21.3
10	16.3	15.5	15.9	19.5	18.7	19.1	22.8	21.3	21.9	21.8	20.9	21.3
11	16.9	15.3	16.2	19.8	18.5	19.0	22.8	21.6	22.0	21.6	20.7	21.0
12	17.1	15.5	16.6	19.7	18.7	19.1	22.7	21.5	22.0	21.3	20.4	20.8
13	17.0	16.4	16.7	19.7	18.8	19.2	23.0	21.6	22.1	20.4	19.7	20.0
14	17.1	16.5	16.8	19.8	19.0	19.4	23.1	21.5	22.1	20.3	19.5	19.8
15	17.2	16.7	16.9	20.0	19.2	19.6	22.9	21.6	22.1	19.9	19.0	19.5
16	18.1	16.6	17.1	20.1	19.2	19.7	23.1	21.6	22.2	19.7	18.9	19.2
17	17.9	16.7	17.2	20.2	19.4	19.8	23.4	21.8	22.3	19.3	18.0	18.9
18	17.5	16.9	17.2	20.1	19.5	19.8	22.8	21.8	22.2	19.4	18.0	18.7
19	17.7	16.7	17.2	20.8	19.4	20.0	23.1	21.7	22.3	19.5	17.9	18.5
20	17.6	16.8	17.3	20.3	19.7	20.0	23.0	22.0	22.4	19.0	17.8	18.3
21	17.5	16.9	17.2	20.8	19.5	20.0	23.0	21.9	22.3	18.9	17.6	18.1
22	17.8	17.0	17.4	20.5	19.7	20.1	23.1	21.8	22.3	18.7	17.2	17.9
23	17.8	16.9	17.5	20.9	19.9	20.3	23.1	21.9	22.4	18.9	17.4	17.9
24	17.9	16.9	17.4	21.0	19.6	20.3	23.3	22.1	22.6	19.0	17.3	17.9
25	18.2	16.6	17.5	21.1	19.9	20.4	23.2	22.2	22.5	19.6	16.9	17.9
26	18.3	17.2	17.7	21.1	19.9	20.5	23.2	22.3	22.5	20.0	16.7	17.9
27	18.6	17.4	17.9	21.0	20.0	20.5	23.2	22.1	22.5	19.9	16.6	17.8
28	18.5	17.3	17.9	21.1	20.3	20.6	22.8	22.3	22.5	19.6	16.1	17.4
29	18.5	17.3	18.0	22.1	20.4	20.9	23.1	22.1	22.5	19.7	16.2	17.5
30	18.9	17.8	18.2	21.7	20.6	21.2	22.9	22.2	22.4	19.2	16.4	17.3
31	---	---	---	22.0	20.8	21.2	22.5	22.0	22.2	---	---	---
MONTH	18.9	15.2	16.9	22.1	17.7	19.6	23.4	20.8	22.2	22.7	16.1	19.6

382624104472400 POND 46.212 NEAR TELLER RESERVOIR AT FORT CARSON, CO

LOCATION (REVISED).--Lat 38°26'21", long 104°47'11", in NE¼SW¼ sec.33, T.18 S., R.66 W., Pueblo County, Hydrologic Unit 11020002, on Fort Carson Military Reservation, near center of dam on unnamed tributary of Wildhorse Creek, 2.2 mi east of Teller Reservoir dam, and 3.2 mi southeast of Stone City.

DRAINAGE AREA.--0.35 mi^2 (from Agricultural Research Service).

RESERVOIR ELEVATIONS AND CONTENTS RECORDS

PERIOD OF RECORD.--April 1999 to September 2001, October 2001 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=382624104472400

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gages. Elevation of gage is 5,580 ft above NGVD of 1929, from topographic map.

REMARKS.--Reservoir is formed by an earthfill dam. All figures represent total contents from area-capacity table effective Apr. 28, 1999, and based on a 1997 survey by the Agricultural Research Service. Total capacity, 7.26 acre-ft at elevation 15.28 ft. Elevation of high crest of spillway, about 15.28 ft. Elevation of no contents, about 1.81 ft. Reservoir is used for flood retention and erosion control.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 0.41 acre-ft, June 13, 2003, elevation, 5.20 ft; no contents on most days.

EXTREMES FOR CURRENT WATER YEAR.--Maximum contents, 0.41 acre-ft, June 13, elevation, 5.20 ft; no contents on most days.

Capacity table
(Elevation, in feet, and contents, in acre-feet, effective April 28, 1999)

Elevation	Capacity	Elevation	Capacity	Elevation	Capacity	Elevation	Capacity
1.81	0.000	5.04	0.36	8.81	1.94	12.81	4.79
2.00	0.002	5.75	0.57	9.81	2.53	13.81	5.71
2.94	0.02	7.00	1.05	10.81	3.21	14.81	6.20
3.99	0.13	7.81	1.41	11.81	3.96	15.28	7.26

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
9	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
11	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
13	0.00	---	---	---	---	---	0.00	0.00	0.32	0.00	0.00	0.00
14	0.00	---	---	---	---	---	0.00	0.00	0.21	0.00	0.00	0.00
15	0.00	---	---	---	---	---	0.00	0.00	0.15	0.00	0.00	0.00
16	0.00	---	---	---	---	---	0.00	0.00	0.11	0.00	0.00	0.00
17	0.00	---	---	---	---	---	0.00	0.00	0.08	0.00	0.00	0.00
18	0.00	---	---	---	---	---	0.00	0.00	0.07	0.00	0.00	0.00
19	0.00	---	---	---	---	---	0.00	0.00	0.06	0.00	0.00	0.00
20	0.00	---	---	---	---	---	0.00	0.00	0.05	0.00	0.00	0.00
21	0.00	---	---	---	---	---	0.00	0.00	0.04	0.00	0.00	0.00
22	0.00	---	---	---	---	---	0.00	0.00	e0.03	0.00	0.00	0.00
23	0.00	---	---	---	---	---	0.00	0.00	e0.02	0.00	0.00	0.00
24	0.00	---	---	---	---	---	0.00	0.00	e0.01	0.00	0.00	0.00
25	0.00	---	---	---	---	---	0.00	0.00	e0.01	0.00	0.00	0.00
26	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	---	---	---	---	---	0.00	---	0.00	0.00	---
MAX	0.00	---	---	---	---	---	0.00	0.00	0.32	0.00	0.00	0.00
MIN	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00

e Estimated.

382624104472400 POND 46.212 NEAR TELLER RESERVOIR, CO—Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--April 1999 to September 2000 (seasonal records only), October 2000 to September 2001, October 2001 to current year (seasonal records only). Air temperature data available, April 1999 to current year, in files of the district office. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=382624104472400

GAGE.--Tipping-bucket rain gage with satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.94 inches, Apr. 30, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitaion, 0.71 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	0.06	---	---	---	---	---	0.00	0.00	0.01	0.00	0.00	0.00
2	0.12	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
3	0.12	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.33
4	0.00	---	---	---	---	---	0.00	0.00	0.05	0.00	0.00	0.00
5	0.00	---	---	---	---	---	0.00	0.00	0.17	0.00	0.00	0.00
6	0.00	---	---	---	---	---	0.02	0.00	0.00	0.00	0.00	0.08
7	0.00	---	---	---	---	---	0.02	0.00	0.02	0.00	0.00	0.06
8	0.00	---	---	---	---	---	0.02	0.00	0.00	0.00	0.01	0.01
9	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.01	0.00
10	0.00	---	---	---	---	---	0.00	0.00	0.13	0.00	0.00	0.00
11	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
13	0.00	---	---	---	---	---	0.00	0.00	0.49	0.00	0.00	0.10
14	0.00	---	---	---	---	---	0.00	0.00	0.05	0.00	0.00	0.01
15	0.00	---	---	---	---	---	0.10	0.31	0.00	0.15	0.00	0.00
16	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
18	0.00	---	---	---	---	---	0.00	0.00	0.15	0.00	0.01	0.00
19	0.00	---	---	---	---	---	0.71	0.00	0.14	0.11	0.00	0.00
20	0.00	---	---	---	---	---	0.00	0.00	0.09	0.03	0.00	0.00
21	0.00	---	---	---	---	---	0.00	0.00	0.00	0.01	0.00	0.00
22	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
23	0.06	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
24	0.04	---	---	---	---	---	0.00	0.02	0.00	0.00	0.00	0.00
25	0.01	---	---	---	---	---	0.00	0.07	0.00	0.00	0.05	0.00
26	0.00	---	---	---	---	---	0.00	0.01	0.00	0.00	0.05	0.00
27	0.00	---	---	---	---	---	0.00	0.17	0.00	0.01	0.00	0.00
28	0.00	---	---	---	---	---	0.00	0.00	0.19	0.00	0.16	0.00
29	0.00	---	---	---	---	---	0.00	0.00	0.01	0.00	0.00	0.00
30	0.00	---	---	---	---	---	0.00	0.16	0.00	0.00	0.41	0.00
31	0.00	---	---	---	---	---	---	0.01	---	0.00	0.00	---
TOTAL	0.41	---	---	---	---	---	0.87	0.75	1.50	0.31	0.70	0.59
MAX	0.12	---	---	---	---	---	0.71	0.31	0.49	0.15	0.41	0.33

07099969 ARKANSAS RIVER AT ST. CHARLES MESA DIVERSION AT PUEBLO, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°15'13", long 104°36'20", in SW¼NW¼ sec.6, T.21 S., R.64 W., Pueblo County, Hydrologic Unit 11020002, on right bank 10 ft upstream from intake of Saint Charles Mesa Water Association at Moffat Street at Pueblo, 150 ft downstream from Santa Fe Avenue bridge, and 1.1 mi upstream from Fountain Creek.

DRAINAGE AREA.--4,778 mi^2.

PERIOD OF RECORD.--October 1988 to current year. Prior to October 1989, published as Arkansas River at Moffat Street at Pueblo (07099970). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07099969

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1988 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Records good except for Oct. 1-2, 11-29, Nov. 15 to Mar. 18, May 8-13, and Sept. 11-30, which are poor. Daily data that are not published are either missing or of unacceptable quality. Specific conductance data is not representative of the stream cross section at the site but is more representative of flow entering the diversion. Specific conductance data representative of the cross section at the site have been published as Arkansas River at Moffat Street at Pueblo (07099970) since the 1991 water year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,990 microsiemens/cm, Dec. 27, 2002, Jan. 1, 2003; minimum, 225 microsiemens/cm, Aug. 25, 1995.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,990 microsiemens/cm, Dec. 27, Jan. 1; minimum, 287 microsiemens/cm, June 20.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2,060	1,880	1,920	878	865	875	2,340	2,300	2,320	2,990	2,970	2,980
2	2,500	579	1,340	884	867	877	2,480	2,340	2,430	2,980	2,940	2,960
3	1,380	960	1,160	886	861	871	2,510	2,440	2,480	2,950	2,930	2,940
4	975	869	911	881	840	866	2,510	2,480	2,490	2,940	2,930	2,930
5	869	856	865	840	819	829	2,490	2,470	2,480	2,930	2,910	2,930
6	875	846	860	849	820	828	2,540	2,490	2,510	2,920	2,900	2,910
7	869	845	852	845	824	831	2,560	2,540	2,540	2,910	2,860	2,900
8	861	839	849	830	820	825	2,590	2,560	2,570	2,860	2,850	2,850
9	886	842	867	835	819	827	2,610	2,590	2,600	2,850	2,790	2,820
10	980	854	903	830	813	821	2,620	2,600	2,610	2,870	2,830	2,860
11	1,250	980	1,160	819	803	811	2,680	2,570	2,640	2,890	2,870	2,880
12	1,440	1,250	1,340	817	802	807	2,700	2,680	2,690	2,880	2,870	2,880
13	1,540	1,440	1,500	818	804	809	2,770	2,700	2,720	2,870	2,830	2,850
14	1,740	1,540	1,660	818	797	808	2,790	2,770	2,790	2,830	2,800	2,810
15	1,850	1,740	1,800	883	813	856	2,830	2,790	2,800	2,960	2,790	2,860
16	2,020	1,850	1,950	880	875	877	2,840	2,830	2,830	2,960	2,890	2,940
17	2,060	1,840	1,960	956	880	903	2,890	2,830	2,860	2,890	2,870	2,880
18	1,930	1,840	1,880	1,140	956	1,040	2,890	2,890	2,890	2,930	2,870	2,900
19	2,020	1,930	1,990	1,470	1,120	1,300	2,890	2,880	2,890	2,950	2,850	2,910
20	2,030	1,900	1,990	1,490	1,390	1,450	2,890	2,880	2,890	2,860	2,830	2,850
21	1,960	1,900	1,930	1,550	1,490	1,520	2,900	2,880	2,890	2,860	2,820	2,850
22	1,980	1,960	1,970	1,740	1,550	1,620	2,920	2,900	2,910	2,830	2,820	2,820
23	2,030	1,970	2,010	1,820	1,670	1,750	2,930	2,910	2,920	2,860	2,820	2,850
24	2,060	2,030	2,050	2,000	1,820	1,890	2,940	2,920	2,930	2,870	2,860	2,870
25	2,080	1,760	1,940	2,100	2,000	2,080	2,950	2,930	2,940	2,870	2,850	2,860
26	1,890	1,760	1,780	2,130	2,050	2,090	2,970	2,950	2,960	2,860	2,830	2,840
27	1,920	1,830	1,910	2,170	2,130	2,140	2,990	2,970	2,980	2,860	2,790	2,800
28	1,860	1,820	1,830	2,190	2,170	2,180	2,980	2,970	2,970	2,810	2,690	2,780
29	2,030	1,020	1,230	2,240	2,190	2,210	2,970	2,950	2,960	2,860	2,800	2,840
30	1,030	877	935	2,300	2,230	2,260	2,950	2,920	2,930	2,850	2,800	2,830
31	878	865	875	---	---	---	2,990	2,940	2,970	2,860	2,840	2,860
MONTH	2,500	579	1,490	2,300	797	1,260	2,990	2,300	2,750	2,990	2,690	2,870

07099969 ARKANSAS RIVER AT ST. CHARLES MESA DIVERSION AT PUEBLO, CO—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2,860	2,850	2,860	2,580	2,520	2,550	1,070	1,020	1,050	790	766	781
2	2,900	2,780	2,850	2,560	2,560	2,560	1,040	760	807	841	767	822
3	2,900	2,810	2,870	2,570	2,560	2,570	784	742	766	873	836	847
4	2,820	2,800	2,810	2,650	2,570	2,600	750	736	742	856	838	848
5	2,840	2,820	2,830	2,720	2,620	2,680	743	734	738	856	817	842
6	2,850	2,650	2,720	2,730	2,650	2,700	741	730	735	825	800	813
7	2,860	2,730	2,800	2,740	2,710	2,730	734	635	718	824	802	810
8	2,910	2,860	2,890	2,780	2,730	2,750	736	666	724	819	793	808
9	2,910	2,900	2,910	2,800	2,740	2,780	750	735	741	1,360	810	950
10	2,920	2,900	2,910	2,820	2,790	2,800	753	739	745	1,620	1,360	1,500
11	2,900	2,670	2,770	2,810	2,770	2,790	751	743	745	1,800	1,610	1,660
12	2,670	2,640	2,650	2,810	2,790	2,800	760	744	753	1,880	1,800	1,820
13	2,680	2,650	2,660	2,790	2,750	2,770	762	749	755	1,930	791	1,500
14	2,680	2,640	2,660	2,780	2,750	2,760	761	749	754	791	752	764
15	2,680	2,670	2,670	2,770	2,720	2,750	769	723	758	764	468	686
16	2,680	2,670	2,680	2,760	2,720	2,740	763	723	752	797	549	754
17	2,710	2,660	2,680	2,730	692	2,020	766	748	758	716	695	706
18	2,740	2,710	2,730	1,400	576	744	769	736	751	703	691	698
19	2,760	655	1,820	1,420	726	905	766	371	604	701	686	696
20	1,070	656	799	854	788	823	780	754	770	692	681	687
21	1,530	1,070	1,300	788	767	778	781	754	769	685	673	680
22	2,100	1,530	1,770	769	765	768	775	758	768	678	670	675
23	2,410	2,100	2,270	780	767	776	779	752	767	678	669	674
24	2,490	2,410	2,460	841	771	790	770	753	762	677	670	675
25	2,500	2,480	2,490	835	771	820	773	747	762	678	653	673
26	2,510	2,500	2,500	850	831	839	852	744	801	678	664	670
27	2,510	2,500	2,510	850	809	832	829	804	814	671	666	668
28	2,560	2,510	2,540	845	790	808	824	801	814	673	661	668
29	---	---	---	878	845	866	867	811	830	673	660	668
30	---	---	---	953	872	890	847	782	820	679	665	670
31	---	---	---	1,020	953	1,000	---	---	---	666	644	660
MONTH	2,920	655	2,510	2,820	576	1,840	1,070	371	769	1,930	468	851
		JUNE			JULY			AUGUST			SEPTEMBER	
1	644	564	594	411	387	401	502	463	490	532	502	516
2	617	408	536	411	380	399	484	446	460	581	493	530
3	458	405	427	427	395	410	469	452	460	697	556	610
4	441	385	406	431	408	419	504	448	468	777	645	731
5	446	401	426	436	396	414	491	453	468	698	624	663
6	475	415	446	428	400	413	478	450	467	648	597	627
7	464	410	447	419	400	413	478	446	465	643	563	606
8	491	455	470	424	404	414	553	440	488	593	530	568
9	494	449	461	422	408	416	589	534	563	577	523	543
10	522	462	487	425	413	419	588	534	561	563	495	518
11	514	430	459	447	406	421	586	528	556	515	476	499
12	438	411	425	446	433	438	567	516	542	514	473	498
13	439	322	421	449	432	441	589	519	558	514	483	500
14	435	414	424	445	424	436	561	527	544	514	483	502
15	420	404	413	443	413	424	559	497	536	522	479	506
16	407	400	404	438	420	430	559	515	540	517	490	507
17	429	400	407	447	421	429	563	526	548	534	490	517
18	413	396	404	453	440	445	691	406	541	591	516	549
19	423	382	396	464	442	451	573	419	537	634	591	622
20	426	287	388	479	454	462	551	520	539	613	521	566
21	417	378	391	490	462	475	548	525	539	538	515	525
22	395	381	388	488	461	476	568	529	542	578	517	564
23	411	385	397	491	461	477	551	522	538	608	566	576
24	413	394	401	491	473	479	554	517	536	649	603	619
25	417	388	404	512	464	492	571	484	533	699	639	666
26	414	392	406	596	459	493	572	507	523	819	662	756
27	412	399	406	526	445	500	522	499	514	895	817	864
28	421	394	403	519	490	504	533	511	523	948	886	912
29	413	391	402	513	457	489	526	403	504	964	934	943
30	408	393	402	483	464	476	538	316	488	965	948	955
31	---	---	---	488	468	479	525	486	503	---	---	---
MONTH	644	287	428	596	380	446	691	316	519	965	473	619
YEAR	2,990	287	1,360									

07099970 ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO

LOCATION.--Lat 38°15'13", long 104°36'20", in SW¼NW¼ sec.6, T.21 S., R.64 W., Pueblo County, Hydrologic Unit 11020002, on right bank 10 ft upstream from Saint Charles Mesa Water District intake at Moffat Street at Pueblo, 150 ft downstream from Santa Fe Avenue bridge, and 1.1 mi upstream from Fountain Creek.

DRAINAGE AREA.--4,778 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1988 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07099970

REVISED RECORDS: WDR CO-90-1: 1989(M).

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 4,653 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for Nov. 16 to Mar. 17 and July 21, which are fair. Records do not include diversion for municipal supply of Saint Charles Mesa Water District. Natural flow of stream affected by storage reservoirs, power developments, transbasin and transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. Flow almost completely regulated by Pueblo Reservoir (station 07099350) 8 mi upstream since Jan. 9, 1974.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	58	1.9	1.7	1.5	1.5	15	128	4,050	713	205	202
2	9.7	57	1.9	1.8	1.5	1.7	160	80	4,620	675	355	139
3	25	56	1.9	1.8	1.5	1.5	195	78	4,790	559	338	63
4	69	63	2.0	1.7	1.5	1.5	250	78	4,300	536	327	33
5	70	75	1.9	1.7	1.5	1.5	281	90	3,430	604	320	54
6	68	75	1.9	1.7	1.9	1.5	302	106	2,140	611	321	67
7	70	78	1.9	1.7	1.5	1.5	311	106	1,470	608	331	81
8	68	83	1.9	1.7	1.5	1.4	276	60	1,170	592	168	112
9	36	82	1.9	1.7	1.5	1.4	236	2.3	904	581	61	166
10	3.4	81	1.9	1.7	1.5	1.4	223	2.9	856	573	61	220
11	2.7	82	1.9	1.7	1.5	1.4	223	2.4	1,200	508	62	260
12	2.3	81	1.9	1.7	1.6	1.4	197	2.3	1,480	441	70	278
13	2.3	80	1.9	1.7	1.5	1.4	196	86	1,600	442	60	303
14	2.3	76	1.9	1.7	1.7	1.4	190	213	1,620	455	65	288
15	2.3	17	1.9	1.7	1.5	1.5	164	264	1,620	502	72	289
16	2.6	1.9	1.9	1.7	1.5	1.5	165	254	1,620	458	71	273
17	2.8	1.9	1.9	1.7	1.5	5.3	178	446	1,610	453	70	204
18	2.5	1.9	1.9	1.7	1.5	7.6	150	478	1,500	400	120	111
19	2.5	1.9	1.9	1.7	5.0	46	280	510	1,500	369	78	66
20	2.5	1.9	1.9	1.5	1.5	89	187	613	1,400	300	89	96
21	2.4	1.9	1.9	1.5	1.5	127	165	759	1,360	e255	89	114
22	2.6	1.9	1.8	1.5	1.5	131	155	854	1,480	231	86	82
23	2.4	1.9	1.7	1.5	1.5	132	179	896	1,280	231	95	76
24	2.3	1.9	1.7	1.5	1.5	104	174	1,090	1,080	210	94	55
25	2.3	1.9	1.7	1.5	1.5	69	170	1,420	991	162	107	42
26	2.4	1.9	1.8	1.5	1.5	67	77	1,870	861	133	116	20
27	2.8	1.9	1.7	1.5	1.5	74	75	1,940	785	113	116	17
28	2.3	1.9	1.7	1.5	1.9	71	77	1,950	786	128	126	17
29	25	1.9	1.7	1.5	---	43	74	2,150	784	197	196	17
30	54	1.9	1.7	1.5	---	33	98	2,640	756	239	288	16
31	59	---	1.7	1.5	---	13	---	3,280	---	218	275	---
TOTAL	603.6	1,072.5	57.2	50.5	46.6	1,035.4	5,423	22,448.9	53,043	12,497	4,832	3,761
MEAN	19.5	35.8	1.85	1.63	1.66	33.4	181	724	1,768	403	156	125
MAX	70	83	2.0	1.8	5.0	132	311	3,280	4,790	713	355	303
MIN	2.2	1.9	1.7	1.5	1.5	1.4	15	2.3	756	113	60	16
AC-FT	1,200	2,130	113	100	92	2,050	10,760	44,530	105,200	24,790	9,580	7,460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2003, BY WATER YEAR (WY)

MEAN	229	201	104	97.0	128	289	531	1,072	2,071	1,366	843	321
MAX	431	491	330	355	312	623	1,031	1,716	4,111	4,290	1,616	699
(WY)	(1996)	(1998)	(1998)	(2000)	(1996)	(1997)	(1998)	(1996)	(1997)	(1995)	(1995)	(1995)
MIN	19.5	35.7	1.85	1.63	1.66	33.4	107	320	310	213	8.23	3.70
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1989 - 2003	
ANNUAL TOTAL	38,409.2		104,870.7			
ANNUAL MEAN	105		287		606	
HIGHEST ANNUAL MEAN					1,107	1995
LOWEST ANNUAL MEAN					129	2002
HIGHEST DAILY MEAN	772	Jun 9	4,790	Jun 3	6,030	Jun 23, 1997
LOWEST DAILY MEAN	1.7	Dec 23	1.4	Mar 8	a1.4	Mar 8, 2003
ANNUAL SEVEN-DAY MINIMUM	1.7	Dec 23	1.4	Mar 8	1.4	Mar 8, 2003
MAXIMUM PEAK FLOW			4,880	Jun 2	b10,400	Jun 3, 1994
MAXIMUM PEAK STAGE			12.04	Jun 2	14.18	Jun 3, 1994
ANNUAL RUNOFF (AC-FT)	76,180		208,000		439,100	
10 PERCENT EXCEEDS	290		813		1,580	
50 PERCENT EXCEEDS	64		68		296	
90 PERCENT EXCEEDS	1.9		1.5		42	

e Estimated.
a Also occurred Mar. 9-14, 2003.
b From rating curve extended above 5,190 ft^3/s on basis of slope-conveyance and area-velocity study.

07099970 ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1988 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07099970

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1988 to current year.
WATER TEMPERATURE: October 1988 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry.

REMARKS.--Daily specific-conductance records are fair except for Oct. 1, 12-28, Nov. 15 to Mar. 16, May 11-12, and Sept. 11-30, which are poor. Daily water-temperature records are good except for Oct. 1-2 and May 9-13, which are poor. Daily water-temperature data that are not published are either missing or of unacceptable quality. Daily specific-conductance data that are not published are either during periods of estimated discharge, are missing for the day, or are of unacceptable quality. During low-flow periods in October and November through March, velocities in the gage pool at the monitoring location became sufficiently slow for the water column to become thermally stratified. Recorded water-temperature values during these periods became completely unrepresentative of the river and were not published.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily mean, 2,980 microsiemens/cm, Dec. 27, 2002, Jan. 1, 2003; minimum daily mean, 252 microsiemens/cm, June 29, 1993.
WATER TEMPERATURE: Maximum, 27.9°C, July 31, 2002; minimum, 0.0°C, on many days.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily mean, 2,980 microsiemens/cm, Dec. 27, Jan. 1; minimum daily mean, 351 microsiemens/cm, July 2.
WATER TEMPERATURE: Maximum, 27.5°C, Aug. 11; minimum recorded, 3.1°C, Mar. 19, but was probably lower during periods of unreliable record, Oct. 11-29 and Nov. 15 to Mar. 17.

WATER-QUALITY DATA COLLECTED AS PART OF PREFERRED STORAGE OPTIONS PLAN, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)
DEC													
17...	1300	1.9	14.4	8.4	2,720	10.5	355	102	4.27	198	E180	67.1	1.19
MAR													
10...	1015	1.5	12.9	8.3	2,680	13.0	398	119	4.39	236	170	68.9	1.15
MAY													
28...	0915	1,960	8.8	8.4	673	16.0	65.4	21.0	3.22	34.7	138	13.6	0.6
AUG													
26...	1430	117	8.5	8.7	481	26.0	57.0	15.2	2.67	24.9	101	8.77	0.5

WATER-QUALITY DATA COLLECTED AS PART OF PREFERRED STORAGE OPTIONS PLAN, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Sulfate water, fltrd, mg/L (00945)
DEC	
17...	1,370
MAR	
10...	1,330
MAY	
28...	188
AUG	
26...	127

E -- Estimated laboratory analysis value.

07099970 ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,920	858	2,320	2,980	2,860	2,550	1,040	746	---	352	457	482
2	---	859	2,430	2,960	2,850	2,560	---	799	---	351	416	---
3	---	855	2,480	2,940	2,870	2,570	716	823	---	365	418	---
4	890	847	2,490	2,930	2,810	2,600	683	824	---	373	425	---
5	846	808	2,480	2,930	2,830	2,680	676	815	---	367	426	651
6	841	807	2,510	2,910	2,720	2,700	671	783	---	366	425	613
7	833	810	2,540	2,900	2,800	2,730	---	780	---	366	423	590
8	831	802	2,570	2,850	2,890	2,750	665	791	---	368	---	548
9	857	804	2,600	2,820	2,910	2,780	684	---	---	370	550	514
10	903	799	2,610	2,860	2,910	2,800	690	---	429	372	548	481
11	---	788	2,640	2,880	2,770	2,790	690	1,660	---	377	543	459
12	1,340	784	2,690	2,880	2,650	2,800	701	1,820	389	395	528	458
13	1,500	786	2,720	2,850	2,660	2,770	702	---	---	398	545	457
14	1,660	786	2,790	2,810	2,660	2,760	704	709	390	391	531	460
15	1,800	852	2,800	2,860	2,670	2,750	715	---	380	377	522	464
16	1,950	877	2,830	2,940	2,680	2,740	709	---	372	384	526	466
17	1,960	903	2,860	2,880	2,680	---	711	---	374	384	535	483
18	1,880	1,040	2,890	2,900	2,730	---	712	---	370	401	---	530
19	1,990	---	2,890	2,910	---	---	---	---	362	408	---	609
20	1,990	1,450	2,890	2,850	---	796	719	---	---	422	524	548
21	1,930	1,520	2,890	2,850	---	744	724	---	356	---	522	506
22	1,970	1,620	2,910	2,820	---	733	727	---	355	440	527	549
23	2,010	1,750	2,920	2,850	2,270	740	718	---	359	441	521	562
24	2,050	1,890	2,930	2,870	2,460	761	715	---	360	445	520	608
25	1,940	2,080	2,940	2,860	2,490	799	717	---	359	464	514	657
26	1,780	2,090	2,960	2,840	2,500	818	778	---	359	---	502	---
27	1,910	2,140	2,980	2,800	2,510	810	791	---	357	---	495	862
28	1,830	2,180	2,970	2,780	2,540	788	791	---	355	482	501	910
29	---	2,210	2,960	2,840	---	851	808	---	354	457	---	941
30	---	2,260	2,930	2,830	---	870	792	---	354	439	---	953
31	858	---	2,970	2,860	---	998	---	---	---	444	462	---
MEAN	---	---	2,750	2,870	---	---	---	---	---	---	---	---
MAX	---	---	2,980	2,980	---	---	---	---	---	---	---	---
MIN	---	---	2,320	2,780	---	---	---	---	---	---	---	---

07099970 ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.8	14.8	15.3	6.8	5.5	6.2	---	---	---	---	---	---
2	15.1	12.6	13.4	9.2	6.5	7.7	---	---	---	---	---	---
3	15.2	11.4	13.2	11.1	7.2	8.7	---	---	---	---	---	---
4	17.6	11.6	14.2	9.5	6.9	8.1	---	---	---	---	---	---
5	19.1	12.9	15.6	10.4	6.4	8.3	---	---	---	---	---	---
6	17.9	13.3	15.5	10.8	6.3	8.5	---	---	---	---	---	---
7	18.8	13.0	15.7	10.4	6.6	8.7	---	---	---	---	---	---
8	19.1	13.5	16.2	10.7	7.6	9.2	---	---	---	---	---	---
9	20.2	15.0	17.4	12.0	8.3	10.0	---	---	---	---	---	---
10	18.9	16.9	17.8	9.9	7.0	8.5	---	---	---	---	---	---
11	---	---	---	9.5	6.1	7.7	---	---	---	---	---	---
12	---	---	---	8.9	5.4	7.2	---	---	---	---	---	---
13	---	---	---	9.5	6.7	8.1	---	---	---	---	---	---
14	---	---	---	10.0	8.1	8.8	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	7.7	5.3	6.4	---	---	---	---	---	---	---	---	---
31	6.7	5.7	6.2	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	18.3	8.8	13.2	15.1	10.0	12.8
2	---	---	---	---	---	---	12.1	7.2	10.3	16.5	10.6	13.3
3	---	---	---	---	---	---	12.6	6.5	9.5	17.6	11.0	14.0
4	---	---	---	---	---	---	11.8	6.3	8.9	15.5	10.9	13.1
5	---	---	---	---	---	---	10.5	6.2	8.2	17.4	10.1	13.6
6	---	---	---	---	---	---	9.9	6.2	7.9	16.2	10.8	13.8
7	---	---	---	---	---	---	9.4	6.2	7.6	18.2	11.1	14.5
8	---	---	---	---	---	---	13.0	5.8	9.1	16.8	11.2	14.5
9	---	---	---	---	---	---	13.8	5.6	9.7	16.9	14.3	15.5
10	---	---	---	---	---	---	14.5	6.4	10.5	17.1	14.7	15.6
11	---	---	---	---	---	---	14.3	7.1	10.9	17.0	14.2	15.5
12	---	---	---	---	---	---	14.2	7.1	10.8	17.7	14.3	15.9
13	---	---	---	---	---	---	15.3	7.1	11.2	18.9	14.5	16.1
14	---	---	---	---	---	---	13.1	7.4	10.7	19.3	11.6	15.3
15	---	---	---	---	---	---	12.0	8.1	10.1	18.3	12.0	14.6
16	---	---	---	---	---	---	15.4	6.9	11.1	20.0	12.3	15.7
17	---	---	---	---	---	---	15.8	8.3	12.1	17.6	12.1	14.6
18	---	---	---	9.0	5.9	7.1	15.0	8.1	11.8	16.4	12.3	14.1
19	---	---	---	5.9	3.1	4.2	13.1	8.4	9.9	14.9	12.0	13.3
20	---	---	---	11.0	4.4	7.6	15.4	8.5	11.6	15.9	11.8	13.3
21	---	---	---	9.0	6.0	6.9	15.9	9.1	12.5	17.0	12.1	14.2
22	---	---	---	11.0	4.3	7.7	15.9	9.3	12.6	18.1	12.5	14.7
23	---	---	---	11.4	5.1	8.6	12.4	8.6	10.4	18.1	12.8	14.8
24	---	---	---	10.2	5.3	8.1	15.1	7.8	11.0	17.8	12.6	14.6
25	---	---	---	12.9	7.3	9.7	16.4	8.6	12.6	16.3	13.2	14.4
26	---	---	---	11.4	6.7	9.3	17.9	9.6	13.4	16.3	13.6	14.6
27	---	---	---	9.2	5.7	7.5	17.2	10.3	13.9	17.2	13.8	15.1
28	---	---	---	9.2	3.6	6.3	18.0	11.6	14.5	17.2	14.4	15.2
29	---	---	---	10.6	4.9	7.4	19.0	11.3	14.8	17.7	14.1	15.5
30	---	---	---	13.1	4.9	8.8	16.2	11.4	14.1	17.3	14.2	15.6
31	---	---	---	17.9	6.8	11.7	---	---	---	17.1	14.8	15.7
MONTH	---	---	---	---	---	---	19.0	5.6	11.2	20.0	10.0	14.6

07099970 ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.7	15.5	16.7	23.0	17.6	19.7	25.5	19.2	22.3	25.5	19.6	22.3
2	17.6	15.7	16.6	23.2	17.4	19.8	26.5	20.0	22.9	25.5	19.3	22.5
3	17.7	16.1	16.7	23.8	17.4	20.1	26.3	20.3	23.0	23.1	19.7	21.5
4	18.3	15.7	16.7	24.1	17.4	20.3	27.3	20.3	23.3	26.4	17.7	21.2
5	17.4	16.1	16.8	23.8	17.6	20.2	26.4	20.6	23.3	26.8	20.1	22.7
6	18.7	15.4	17.0	22.5	17.7	19.7	26.5	20.2	23.1	23.7	20.0	21.4
7	17.4	14.8	16.0	23.4	17.5	19.8	26.8	20.6	23.2	22.0	19.2	20.6
8	19.4	15.5	17.0	24.3	17.9	20.4	26.6	20.7	23.1	24.5	18.8	21.6
9	19.2	15.1	16.6	23.6	17.4	20.0	27.4	20.8	23.6	22.4	18.7	20.6
10	19.5	15.4	16.7	24.1	17.8	20.5	27.4	20.2	23.6	22.6	18.3	20.5
11	19.4	15.1	17.0	24.4	18.0	20.7	27.5	21.3	24.1	23.1	17.5	20.0
12	19.3	15.3	17.1	24.0	17.9	20.6	27.3	20.6	23.7	23.5	17.1	20.2
13	19.0	16.2	16.9	24.5	18.5	21.1	27.0	20.5	23.4	20.3	16.4	17.7
14	19.6	16.2	17.3	24.0	18.0	20.8	26.7	19.9	23.0	21.7	15.8	18.5
15	19.8	16.3	17.6	24.7	18.5	20.9	26.2	19.9	22.9	22.4	16.2	19.1
16	19.3	16.4	17.5	25.0	18.9	21.4	26.3	20.2	23.1	22.5	16.3	19.4
17	19.9	16.7	18.0	25.3	18.8	21.6	25.3	19.5	22.3	20.3	16.7	18.2
18	19.8	16.7	17.8	25.5	18.5	21.7	24.7	20.6	22.4	19.3	13.8	16.4
19	19.4	16.8	17.7	25.7	18.9	21.8	27.1	19.4	22.9	20.3	14.0	16.9
20	20.2	16.0	17.5	25.2	19.2	21.8	26.9	20.7	23.8	20.1	15.3	17.6
21	20.1	16.3	17.9	26.4	---	---	26.6	20.8	23.8	20.9	15.7	18.3
22	20.3	16.6	18.1	25.5	19.0	22.3	26.4	20.5	23.4	20.1	14.7	17.5
23	21.0	16.7	18.4	25.0	19.2	22.1	26.3	20.3	23.1	21.2	15.5	18.3
24	20.9	16.7	18.3	26.6	18.8	22.5	26.8	20.3	23.5	20.5	15.8	18.0
25	21.3	16.2	18.3	26.3	19.5	22.9	26.8	21.0	23.6	21.3	14.9	17.7
26	21.8	16.7	18.7	25.9	19.5	22.9	26.7	20.5	23.4	20.4	14.7	17.2
27	22.3	16.6	19.0	23.7	20.4	22.2	26.7	20.1	23.4	19.4	15.3	17.1
28	22.3	16.9	18.8	24.4	20.0	22.2	24.3	21.1	22.0	19.0	14.6	16.6
29	21.0	17.0	18.7	25.4	19.2	22.1	25.1	20.0	22.1	19.1	14.7	16.6
30	22.9	17.3	19.6	26.0	19.4	22.6	23.4	18.9	21.3	17.9	15.3	16.5
31	---	---	---	24.6	19.1	22.0	22.9	20.0	21.2	---	---	---
MONTH	22.9	14.8	17.6	26.6	---	---	27.5	18.9	23.0	26.8	13.8	19.1

07099990 FOUNTAIN CREEK AT GREEN MOUNTAIN FALLS, CO

LOCATION.--Lat 38°56'20", long 105°00'55", in NW¼NE¼ sec.8, T.13 S., R.68 W., El Paso County, Hydrologic Unit 11020003, on left bank at upstream side of bridge on Green Mountain Falls Road at Green Mountain Falls, 0.2 mi south of U.S. Highway 24, 0.4 mile upstream from North Catamount Creek, and 1.3 miles downstream from Crystola Creek.

DRAINAGE AREA.--16.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 2001 to current year. Site was part of a hydrologic study, water-quality data available, May 1986 to September 1989, published as "Fountain Creek above Green Mountain Falls" (station 385620105005401). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07099990

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 7,740 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation, ground-water withdrawals, and return flows from irrigated areas. 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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.61	0.65	0.54	0.56	0.66	e0.67	0.78	1.6	1.4	1.4	0.98	0.66
2	0.68	0.69	0.55	0.60	0.69	e0.66	0.77	1.6	1.2	1.0	1.1	0.62
3	0.65	0.71	0.56	0.56	e0.68	0.65	0.76	1.6	1.0	1.1	0.94	2.5
4	0.64	0.68	0.55	0.56	e0.66	e0.64	0.72	1.5	1.0	0.89	1.00	0.63
5	0.67	0.72	0.57	0.56	e0.65	e0.66	0.71	1.4	1.3	0.78	1.0	0.52
6	0.75	0.73	0.57	0.56	e0.65	0.70	0.71	1.4	1.1	0.69	1.0	0.53
7	0.77	0.75	0.57	0.56	e0.63	0.66	0.67	1.4	1.0	0.71	0.96	2.3
8	0.80	0.77	0.54	0.61	e0.65	0.69	0.70	1.3	0.97	0.57	1.0	0.60
9	0.80	0.78	0.55	e0.62	e0.67	0.67	0.80	1.3	0.88	0.50	1.2	0.42
10	0.76	0.77	0.61	e0.62	e0.68	0.66	1.2	1.3	0.86	0.68	0.74	0.47
11	0.65	0.71	0.57	0.62	e0.68	0.73	1.6	1.3	0.78	0.45	0.86	0.43
12	0.63	0.66	0.58	e0.62	0.65	0.79	2.0	1.2	0.80	0.46	0.65	0.38
13	0.64	0.68	0.55	0.61	0.66	0.90	2.8	1.2	0.78	0.51	0.48	0.35
14	0.63	0.72	0.54	0.61	0.71	0.92	2.8	1.2	0.84	0.50	0.42	0.34
15	0.63	0.66	0.54	0.59	0.71	0.92	2.6	1.2	0.78	0.54	0.45	0.36
16	0.64	0.64	0.54	e0.59	e0.69	0.89	2.5	1.3	0.75	0.50	0.48	0.40
17	0.64	0.63	0.56	e0.59	e0.70	0.92	2.5	1.3	0.90	0.52	0.47	0.45
18	0.63	0.63	0.55	e0.59	0.72	1.3	2.4	1.2	1.1	0.55	0.93	0.41
19	0.64	0.60	e0.54	0.59	e0.70	1.2	2.3	1.2	0.92	1.0	0.40	0.34
20	0.67	0.59	e0.53	0.58	e0.68	0.79	2.3	1.2	1.00	0.29	0.43	0.35
21	0.68	0.60	0.55	0.57	e0.69	0.75	2.7	1.2	0.81	0.28	0.40	0.30
22	0.70	0.61	e0.52	0.56	e0.70	0.78	2.8	1.2	0.89	0.29	0.34	0.37
23	0.72	0.61	e0.52	0.58	e0.68	0.88	2.6	1.1	0.87	0.39	0.39	0.34
24	0.72	0.60	e0.51	0.58	e0.65	0.92	2.5	1.1	0.82	0.34	1.1	0.36
25	0.74	0.57	e0.52	0.58	e0.64	0.95	2.3	1.2	0.89	0.32	0.30	0.40
26	0.75	0.57	e0.55	0.60	0.65	0.94	2.0	1.2	3.0	0.33	0.35	0.46
27	0.84	0.63	e0.57	0.62	0.67	0.86	1.8	1.1	1.5	0.33	0.45	0.52
28	0.82	0.56	0.58	0.64	e0.67	0.70	1.8	1.1	1.1	0.40	0.55	0.50
29	0.78	0.56	0.58	0.64	---	0.90	1.8	1.2	1.2	0.63	0.66	0.48
30	0.66	0.55	0.56	0.64	---	0.85	1.8	1.2	1.9	1.0	0.65	0.49
31	0.64	---	0.57	0.65	---	0.76	---	1.9	---	1.0	0.95	---
TOTAL	21.58	19.63	17.14	18.46	18.87	25.31	53.72	40.2	32.34	18.95	21.63	17.28
MEAN	0.70	0.65	0.55	0.60	0.67	0.82	1.79	1.30	1.08	0.61	0.70	0.58
MAX	0.84	0.78	0.61	0.65	0.72	1.3	2.8	1.9	3.0	1.4	1.2	2.5
MIN	0.61	0.55	0.51	0.56	0.63	0.64	0.67	1.1	0.75	0.28	0.30	0.30
AC-FT	43	39	34	37	37	50	107	80	64	38	43	34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2003, BY WATER YEAR (WY)

MEAN	0.80	0.84	0.75	0.79	0.81	1.03	1.96	1.79	1.11	0.89	0.83	0.65
MAX	0.90	1.03	0.95	0.98	0.95	1.24	2.58	3.08	1.66	1.60	1.32	0.88
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)
MIN	0.70	0.65	0.55	0.60	0.67	0.82	1.50	1.01	0.59	0.44	0.48	0.50
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2001 - 2003	
ANNUAL TOTAL	291.65		305.11			
ANNUAL MEAN	0.80		0.84		0.86	
HIGHEST ANNUAL MEAN					0.88	2002
LOWEST ANNUAL MEAN					0.84	2003
HIGHEST DAILY MEAN	2.3	Apr 1	3.0	Jun 26	8.1	Jul 13, 2001
LOWEST DAILY MEAN	0.38	Jun 30	0.28	Jul 21	0.28	Jul 21, 2003
ANNUAL SEVEN-DAY MINIMUM	0.42	Jul 27	0.32	Jul 20	0.32	Jul 20, 2003
MAXIMUM PEAK FLOW			a57	Sep 3	b183	Jul 13, 2001
MAXIMUM PEAK STAGE			5.09	Sep 3	6.43	Jul 13, 2001
ANNUAL RUNOFF (AC-FT)	578		605		622	
10 PERCENT EXCEEDS	1.2		1.3		1.3	
50 PERCENT EXCEEDS	0.68		0.67		0.78	
90 PERCENT EXCEEDS	0.44		0.46		0.45	

e Estimated.
a From rating curve extended above 3.9 ft^3/s on basis of slope-conveyance measurement of peak flow.
b From slope-conveyance measurement of peak flow.

07099990 FOUNTAIN CREEK AT GREEN MOUNTAIN FALLS, CO—Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--April 2001 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07099990

GAGE.--Tipping-bucket rain gage with satellite telemetry.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.22 inches, Aug. 1, 2001.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 0.85 inch, Sept. 7.

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	0.34	---	---	---	---	---	0.00	0.00	0.03	0.00	0.00	0.00
2	0.12	---	---	---	---	---	0.00	0.01	0.00	0.00	0.29	0.13
3	0.01	---	---	---	---	---	0.00	0.00	0.01	0.00	0.06	0.48
4	0.01	---	---	---	---	---	0.00	0.00	0.06	0.00	0.11	0.00
5	0.01	---	---	---	---	---	0.06	0.00	0.53	0.00	0.12	0.02
6	0.00	---	---	---	---	---	0.16	0.00	0.06	0.00	0.00	0.09
7	0.00	---	---	---	---	---	0.00	0.00	0.14	0.01	0.00	0.85
8	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	---	---	---	---	---	0.00	0.04	0.02	0.00	0.07	0.00
10	0.00	---	---	---	---	---	0.00	0.03	0.02	0.00	0.02	0.00
11	0.00	---	---	---	---	---	0.00	0.00	0.01	0.00	0.37	0.00
12	0.00	---	---	---	---	---	0.00	0.00	0.44	0.14	0.00	0.00
13	0.00	---	---	---	---	---	0.00	0.00	0.11	0.00	0.00	0.07
14	0.00	---	---	---	---	---	0.00	0.00	0.26	0.00	0.00	0.04
15	0.00	---	---	---	---	---	0.09	0.31	0.00	0.21	0.00	0.00
16	0.00	---	---	---	---	---	0.01	0.00	0.52	0.02	0.00	0.00
17	0.00	---	---	---	---	---	0.00	0.00	0.17	0.00	0.01	0.00
18	0.00	---	---	---	---	---	0.02	0.07	0.02	0.00	0.14	0.00
19	0.00	---	---	---	---	---	0.22	0.02	0.42	0.37	0.00	0.00
20	0.00	---	---	---	---	---	0.16	0.06	0.01	0.01	0.00	0.00
21	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	---	---	---	---	---	0.02	0.00	0.00	0.12	0.03	0.00
23	0.02	---	---	---	---	---	0.02	0.00	0.00	0.41	0.19	0.00
24	0.01	---	---	---	---	---	0.60	0.06	0.00	0.00	0.44	0.00
25	0.00	---	---	---	---	---	0.00	0.02	0.25	0.01	0.01	0.00
26	0.14	---	---	---	---	---	0.00	0.00	0.15	0.01	0.04	0.00
27	0.32	---	---	---	---	---	0.00	0.00	0.00	0.00	0.01	0.00
28	0.03	---	---	---	---	---	0.00	0.06	0.16	0.01	0.04	0.00
29	0.00	---	---	---	---	---	0.00	0.08	0.66	0.29	0.25	0.00
30	0.00	---	---	---	---	---	0.00	0.13	0.15	0.00	0.32	0.00
31	0.00	---	---	---	---	---	---	0.43	---	0.00	0.10	---
TOTAL	1.01	---	---	---	---	---	1.36	1.32	4.20	1.61	2.62	1.68
MAX	0.34	---	---	---	---	---	0.60	0.43	0.66	0.41	0.44	0.85

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO

LOCATION.--Lat 38°51'17", long 104°52'39", in SE¼SW¼ sec.3, T.14 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank 200 ft upstream from diversion to city of Colorado Springs, 0.5 mi east of bridge on U.S. Highway 24, 1.0 mi downstream from Sutherland Creek, and 3.3 mi northwest of courthouse in Colorado Spring.

DRAINAGE AREA.--103 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1958 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103700

REVISED RECORDS.--WDR CO-99-1: 1997(M).

GAGE.--Water-stage recorder with satellite telemetry, crest-stage gage, and V-notch weir. Elevation of gage is 6,110 ft above NGVD of 1929, from topographic map. Feb. 4 to Apr. 15, 1992, gage temporarily located 80 ft upstream, at same datum.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	5.4	4.6	4.1	4.4	5.0	8.0	10	14	12	5.3	9.8
2	5.3	5.5	4.7	4.0	4.5	5.7	9.1	10	12	10	14	8.9
3	4.9	5.4	4.6	4.2	4.6	5.8	9.1	10	11	9.2	8.8	15
4	4.2	5.4	4.7	3.8	3.5	5.1	8.1	10	13	8.4	10	12
5	3.9	5.1	4.5	4.1	4.1	4.9	9.0	9.8	18	8.7	7.1	10
6	3.8	5.0	3.9	4.3	3.9	5.0	9.7	9.3	14	8.3	6.6	10
7	3.8	4.7	3.6	4.3	3.3	5.3	8.0	9.9	13	8.1	5.3	14
8	3.8	4.7	4.0	4.4	3.6	5.3	8.0	9.7	11	7.5	5.3	11
9	3.8	5.0	4.1	4.3	4.2	5.1	8.2	9.4	13	6.7	6.7	9.9
10	3.6	5.0	3.4	2.8	4.9	5.2	9.0	9.3	10	6.3	8.7	9.7
11	3.6	4.9	3.3	4.5	4.9	5.3	10	8.8	10	6.1	9.3	8.1
12	3.6	4.6	3.5	4.8	4.9	5.4	10	8.7	12	7.0	11	8.5
13	3.9	5.5	3.5	4.4	5.0	5.5	11	8.9	13	7.7	8.4	8.1
14	3.9	5.4	4.4	4.3	5.4	5.6	12	8.0	11	6.6	7.4	8.6
15	4.2	5.5	5.2	4.3	5.0	5.9	12	9.1	10	8.7	6.9	8.3
16	3.8	5.3	4.6	3.9	4.8	6.1	11	10	11	10	6.2	7.4
17	4.1	5.5	4.5	3.6	4.8	6.9	11	9.5	13	8.1	6.0	7.1
18	4.2	5.3	4.3	3.5	4.7	8.1	11	10	13	7.0	7.2	6.2
19	3.8	5.0	3.2	4.6	5.1	6.1	11	11	17	6.9	7.6	7.4
20	3.8	4.9	2.7	4.7	4.3	7.0	10	11	21	8.7	6.6	7.2
21	4.2	4.5	3.8	4.3	4.7	7.1	10	11	15	6.8	5.0	6.9
22	4.0	4.3	3.4	4.4	4.8	6.3	12	10	13	5.8	5.0	6.2
23	4.4	4.4	3.5	4.3	4.3	6.7	14	9.8	13	8.2	4.8	6.3
24	4.7	4.5	3.3	4.4	3.1	9.1	13	11	13	7.8	5.8	6.3
25	4.5	4.3	3.3	4.3	4.5	12	11	12	12	6.3	8.3	7.5
26	5.7	2.8	3.2	4.3	5.2	11	11	13	23	6.3	6.9	7.0
27	8.4	3.1	3.9	4.4	5.3	12	11	12	12	7.2	11	6.7
28	5.9	4.0	4.6	4.5	5.2	11	12	11	11	7.1	8.0	6.6
29	5.3	5.4	4.7	4.4	---	10	12	11	15	9.0	8.9	6.3
30	4.7	4.8	4.3	4.3	---	11	11	11	14	8.1	12	5.8
31	5.2	---	4.1	4.3	---	9.2	---	14	---	5.8	14	---
TOTAL	137.2	145.2	123.4	130.8	127.0	219.7	312.2	318.2	401	240.4	244.1	252.8
MEAN	4.43	4.84	3.98	4.22	4.54	7.09	10.4	10.3	13.4	7.75	7.87	8.43
MAX	8.4	5.5	5.2	4.8	5.4	12	14	14	23	12	14	15
MIN	3.6	2.8	2.7	2.8	3.1	4.9	8.0	8.0	10	5.8	4.8	5.8
AC-FT	272	288	245	259	252	436	619	631	795	477	484	501

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2003, BY WATER YEAR (WY)

MEAN	12.7	10.8	8.84	8.13	7.71	9.08	14.7	32.9	31.2	21.3	20.4	14.4
MAX	44.0	34.6	18.8	18.5	13.6	16.9	65.1	172	198	108	90.5	43.2
(WY)	(1985)	(1985)	(1985)	(1985)	(1986)	(1998)	(1999)	(1980)	(1997)	(1995)	(1999)	(1999)
MIN	4.43	4.84	3.98	4.22	4.44	4.91	5.90	6.37	4.08	3.31	3.48	4.34
(WY)	(2003)	(2003)	(2003)	(2003)	(1972)	(1965)	(1963)	(1989)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1958 - 2003	
ANNUAL TOTAL	1,939.2		2,652.0			
ANNUAL MEAN	5.31		7.27		16.0	
HIGHEST ANNUAL MEAN					46.3	1999
LOWEST ANNUAL MEAN					5.72	2002
HIGHEST DAILY MEAN	16	Sep 10	23	Jun 26	813	Apr 30, 1999
LOWEST DAILY MEAN	1.9	Jul 3	2.7	Dec 20	1.9	Jul 3, 2002
ANNUAL SEVEN-DAY MINIMUM	2.3	Jun 28	3.3	Dec 19	2.3	Jun 28, 2002
MAXIMUM PEAK FLOW			211	Aug 2	a2,630	Aug 4, 1964
MAXIMUM PEAK STAGE			4.32	Aug 2	b5.27	Aug 4, 1964
ANNUAL RUNOFF (AC-FT)	3,850		5,260		11,620	
10 PERCENT EXCEEDS	8.2		12		29	
50 PERCENT EXCEEDS	5.0		6.3		9.8	
90 PERCENT EXCEEDS	2.9		3.9		5.4	

a From slope-area measurement of peak flow.
b Maximum gage height, 7.81 ft, Apr 29, 1999, from floodmark.

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1974 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103700

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT: August 1995 to September 1997 (seasonal peaks only), April 1998 to October 2002 (seasonal records only) (discontinued).

INSTRUMENTATION.--Pumping sediment sampler with satellite telemetry.

REMARKS.--Water-quality data collected July 24 were obtained to determine base-flow constituent concentrations.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 8,090 mg/L, June 6, 1997; minimum daily mean, 1 mg/L, Oct. 21, 23-24, 2002.
SUSPENDED-SEDIMENT DISCHARGE (seasonal only): Maximum daily, 41,800 tons, June 6, 1997; minimum daily, 0.0 ton (estimated), Oct. 25, 2002.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATION: Maximum daily mean during October, 86 mg/L, Oct. 27; minimum daily mean, 1 mg/L, Oct. 21, 23-24.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily during October, 2.4 tons, Oct. 27; minimum daily, 0.0 ton (estimated), Oct. 25.

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

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	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)
NOV													
07...	0930	4.8	11.0	8.3	498	3.0	53.0	11.3	2.60	21.0	<0.015	0.814	<0.02
DEC													
03...	1015	4.6	11.1	8.3	496	2.5	54.0	11.4	2.50	21.0	<0.015	0.949	<0.02
FEB													
14...	1015	5.0	10.9	8.4	480	4.5	47	10	2.5	22.4	<0.015	0.933	<0.02
APR													
28...	1600	11	9.0	8.4	338	12.5	37	6.4	2.76	17.0	<0.015	0.400	<0.02

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

Date	Phosphorus, water, unfltrd mg/L (00665)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Arsenic water, fltrd, ug/L (01000)	Arsenic water unfltrd ug/L (01002)	Boron, water, fltrd, ug/L (01020)	Boron, water, unfltrd recoverable, ug/L (01022)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, fltrd, ug/L (01030)	Chromium, water, unfltrd recoverable, ug/L (01034)
NOV													
07...	<0.040	<2.0	--	44	38	<0.60	<0.80	65	69	<0.10	30	E1.6	1.7
DEC													
03...	<0.040	<2.0	--	52	46	<0.60	<0.80	60	60	<0.10	<0.10	2.7	1.8
FEB													
14...	E.036	--	--	E19	E17	E.16	<2	52.7	59.6	<0.037	<0.035	<0.8	<0.8
APR													
28...	E.033	--	140	--	E260	--	<2	38	39	--	--	--	--

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

Date	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recoverable, ug/L (01042)	Cyanide water unfltrd mg/L (00720)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recoverable, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recoverable, ug/L (01051)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, unfltrd recoverable, ug/L (01055)	Mercury water, fltrd, ug/L (71890)	Mercury water, unfltrd recoverable, ug/L (71900)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd recoverable, ug/L (01067)
NOV													
07...	0.84	1.4	<0.01	38.0	102	<0.20	0.24	25	27	<0.018	<0.018	2.1	3.0
DEC													
03...	E1.5	2.0	<0.01	12.0	124	E.20	E.27	18	21	<0.018	<0.018	1.6	1.5
FEB													
14...	0.70	1.59	<0.009	17	188	<0.08	0.59	12.5	29.1	<0.018	<0.018	1.93	3.28
APR													
28...	0.73	2.00	--	--	--	--	1.75	23.7	54.2	--	--	--	1.38

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO—Continued

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

Date	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd recoverable, ug/L (01077)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recoverable, ug/L (01092)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
NOV 07...	1.2	E1.5	0.07	<0.04	<6.0	<9.0	1.3	0.02
DEC 03...	E.97	1.2	<0.04	<0.04	6.0	<9.0	1.2	0.01
FEB 14...	<0.50	<0.48	<0.20	<0.16	2.9	6.7	15	0.20
APR 28...	<0.50	E.30	--	--	1.2	9.2	30	0.89

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

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	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)
JUL 24...	1330	8.1	7.3	8.1	332	17.5	33.2	6.43	2.59	13	<0.015	0.517	<0.02
AUG 11...	2100	39	7.1	7.8	201	19.5	21.9	3.67	0.99	9.48	0.448	1.25	E.01
SEP 03...	1850	32	8.4	8.0	205	13.5	20.4	3.43	2.36	9.73	E.011	0.655	E.01

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Phosphorus, water, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Arsenic water unfltrd ug/L (01002)	Boron, water, fltrd, ug/L (01020)	Boron, water, unfltrd recoverable, ug/L (01022)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recoverable, ug/L (01042)	Lead, water, unfltrd recoverable, ug/L (01051)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, unfltrd recoverable, ug/L (01055)	Nickel, water, unfltrd recoverable, ug/L (01067)	Selenium, water, fltrd, ug/L (01145)
JUL 24...	E.020	530	780	<2	35	47	0.688	1.30	1.06	9.39	35.9	1.16	E.31
AUG 11...	1.38	33,000	54,000	2	34	50	2.20	37.2	98.8	29.8	1,390	18.9	0.66
SEP 03...	1.50	5,300	5,100	5	21	32	0.85	35.5	110	2.65	3,000	12.8	<0.5

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Selenium, water, unfltrd ug/L (01147)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recoverable, ug/L (01092)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	9H-Fluorene, water, unfltrd ug/L (34381)	Acenaphthene, water, unfltrd ug/L (34205)	Acenaphthylene, water, unfltrd ug/L (34200)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Anthracene, water, unfltrd ug/L (34220)	Atrazine, water, fltrd, ug/L (39632)
JUL 24...	E.27	1.1	6.2	<0.006	<0.006	<2	<2	<2	<0.006	<0.004	<0.0046	<2	<0.007
AUG 11...	2.22	3.8	322	<0.006	<0.008	E.0423	<2	<2	<0.006	<0.004	<0.0046	E.1050	0.0141
SEP 03...	3.25	<1	381	<0.006	<0.006	E.0181	E.0208	<2	<0.006	<0.004	<0.0046	E.0353	<0.007

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO—Continued

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Azinphos-methyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Benzo[a]anthracene, water, unfltrd ug/L (34526)	Benzo[a]pyrene, water, unfltrd ug/L (34247)	Benzo[b]fluoranthene water unfltrd ug/L (34230)	Benzo[g,h,i]perylene, water, unfltrd ug/L (34521)	Benzo[k]fluoranthene water unfltrd ug/L (34242)	Butylate, water, fltrd, ug/L (04028)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbofuran, water, fltrd 0.7u GF ug/L (82674)	Chlorpyrifos water, fltrd, ug/L (38933)	Chrysene, water, unfltrd ug/L (34320)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)
JUL													
24...	<0.05	<0.010	<2	<1	<2	<3	<2	<0.002	<0.041	<0.020	<0.005	<3	<0.006
AUG													
11...	<0.05	<0.010	E.4490	E.7070	E1	E.4700	E.3970	<0.002	E.277	<0.020	<0.005	E.6400	<0.006
SEP													
03...	<0.05	<0.010	E.2060	E.3190	E.4240	E.2250	E.2040	<0.002	E.091	<0.020	<0.005	E.2250	<0.006

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Cyanazine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon, water, fltrd, ug/L (39572)	Dibenzo[a,h]anthracene, wat unf ug/L (34556)	Dieldrin, water, fltrd, ug/L (39381)	Disulfoton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethalfluralin, water, fltrd 0.7u GF ug/L (82663)	Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Desulfinyl-fipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)
JUL													
24...	<0.018	<0.0030	<0.004	<0.005	<3	<0.0048	<0.021	<0.0020	<0.009	<0.005	<0.009	<0.005	<0.005
AUG													
11...	<0.018	<0.0030	<0.004	0.278	E.1320	<0.0048	<0.021	<0.0020	<0.009	<0.005	<0.009	<0.005	<0.005
SEP													
03...	<0.018	<0.0030	<0.004	E.0045	<3	<0.0048	<0.021	<0.0020	<0.009	<0.005	<0.009	<0.005	<0.005

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Fipronil, water, fltrd, ug/L (62166)	Fluoranthene water unfltrd ug/L (34376)	Fonofos water, fltrd, ug/L (04095)	Indeno[1,2,3-cd]pyrene, water, unfltrd ug/L (34403)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Napropamide, water, fltrd 0.7u GF ug/L (82684)	Nitrobenzene water unfltrd ug/L (34447)
JUL													
24...	<0.007	E.0433	<0.0027	<3	<0.0040	<0.035	<0.027	<0.006	<0.013	<0.006	<0.0016	<0.007	<2
AUG													
11...	<0.007	E1	<0.0027	E.5670	<0.0040	<0.035	0.0419	<0.006	<0.013	<0.006	<0.0016	<0.007	<2
SEP													
03...	<0.007	E.3970	<0.0027	E.2600	<0.0040	<0.035	<0.027	<0.006	<0.013	<0.006	<0.0016	<0.007	<2

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	p,p'-DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)	Pebulate, water, fltrd 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phenanthrene, water, unfltrd ug/L (34461)	Phorate water fltrd 0.7u GF ug/L (82664)	Prometon, water, fltrd, ug/L (04037)	Pronamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Pyrene, water, unfltrd ug/L (34469)	Simazine, water, fltrd, ug/L (04035)
JUL													
24...	<0.0025	<0.010	<0.004	<0.022	<2	<0.011	<0.015	<0.0041	<0.010	<0.011	<0.023	E.0337	<0.005
AUG													
11...	<0.0025	<0.010	<0.004	<0.022	E.4210	<0.011	<0.015	<0.045	<0.010	<0.011	<0.023	E1	<0.005
SEP													
03...	<0.0025	<0.010	<0.004	<0.022	E.1540	<0.011	E.0052	<0.0041	<0.010	<0.011	<0.023	E.3730	<0.005

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO—Continued

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Terbacil, water, fltrd 0.7u GF ug/L (82665)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Thiobencarb water fltrd 0.7u GF ug/L (82681)	Triallate, water, fltrd 0.7u GF ug/L (82678)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	Naphthalene, water, unfltrd ug/L (34696)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
JUL									
24...	<0.016	<0.034	<0.017	<0.0048	<0.0023	<0.009	<2	12	0.26
AUG									
11...	<0.016	<0.034	<0.017	<0.0048	<0.0023	<0.009	<2	2,040	215
SEP									
03...	<0.016	<0.034	<0.017	<0.0048	<0.0023	<0.009	E.0342	1,880	162

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

WATER-QUALITY DATA DURING MICROBIOLOGICAL SAMPLING, 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)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)
NOV							
07...	0930	4.8	498	3.0	--	44	38
DEC							
03...	1015	4.6	496	2.5	--	52	46
FEB							
14...	1015	5.0	480	4.5	--	E19	E17
APR							
09...	1600	8.1	447	12.5	E12	--	E19
28...	1600	11	338	12.5	140	--	E260
MAY							
12...	1330	8.9	385	11.5	280	--	E410
28...	1400	11	402	16.5	E300	--	220
JUN							
11...	0947	11	300	11.5	660	--	E860
25...	1340	12	204	14.5	150	--	230
JUL							
08...	1327	7.3	314	17.0	910	--	1,200
24...	1330	8.1	332	17.5	530	--	780
AUG							
06...	0915	8.1	343	15.0	960	--	1,200
11...	2100	39	201	19.5	33,000	--	54,000
21...	1230	5.6	385	17.5	350	--	640
SEP							
03...	1850	32	205	13.5	5,300	--	5,100
18...	1120	6.2	376	9.0	310	--	370

E -- Estimated laboratory analysis value.

07103700 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO—Continued

MISCELLANEOUS FIELD AND SUSPENDED-SEDIMENT DISCHARGE DATA, 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)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
OCT						
16...	1015	3.9	553	6.5	3	0.03
16...	1040	4.0	553	6.5	--	--
NOV						
07...	0930	4.8	498	3.0	1	0.02
DEC						
03...	1015	4.6	496	2.5	1	0.01
FEB						
14...	1015	5.0	480	4.5	15	0.20
MAR						
06...	1150	5.3	577	1.0	--	--
APR						
28...	1600	11	338	12.5	30	0.89
MAY						
07...	1319	9.9	369	10.5	--	--
JUL						
24...	1330	8.1	332	17.5	12	0.26
AUG						
11...	2100	39	201	19.5	2,040	215
SEP						
03...	1850	32	205	13.5	1,880	162

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
	OCTOBER		
1	4.2	---	e0.71
2	5.3	14	0.22
3	4.9	8	0.10
4	4.2	6	0.07
5	3.9	---	e0.07
6	3.8	7	0.07
7	3.8	8	0.08
8	3.8	7	0.07
9	3.8	6	0.06
10	3.6	---	e0.05
11	3.6	4	0.04
12	3.6	5	0.05
13	3.9	4	0.04
14	3.9	3	0.03
15	4.2	---	e0.02
16	3.8	2	0.02
17	4.1	3	0.03
18	4.2	2	0.03
19	3.8	2	0.02
20	3.8	---	e0.02
21	4.2	1	0.01
22	4.0	2	0.02
23	4.4	1	0.01
24	4.7	1	0.01
25	4.5	---	e0.00
26	5.7	27	1.1
27	8.4	86	2.4
28	5.9	16	0.26
29	5.3	---	e0.03
30	4.7	---	e0.03
31	5.2	---	e0.03
TOTAL	137.2	---	5.70

e Estimated.

07103703 CAMP CREEK AT GARDEN OF THE GODS, CO

LOCATION.--Lat 38°52'37", long 104°52'20", in SE¼NE¼ sec.34, T.13 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank, 80 ft downstream from county road bridge at east entrance to Garden of the Gods Park at Colorado Springs, and 1.9 mi upstream from mouth.

DRAINAGE AREA.--9.45 mi^2.

PERIOD OF RECORD.--April 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=07103703

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Concrete control since September 1993. Elevation of gage is 6,310 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream may be affected by Palmer Reservoir, 7.9 mi upstream. Measurements of specific conductance and water temperature, when obtained, are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.01
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.05	0.00	0.00	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	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
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	0.00	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	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	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	0.01	0.00	0.00	0.01	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.05	0.00	0.00	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	0.00	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	0.02	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.06	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	0.01	0.00	0.00	0.00
26	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
27	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.01	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.07	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.05	---	0.00	0.01	---
TOTAL	0.05	0.00	0.00	0.00	0.01	0.07	0.08	0.20	0.20	0.01	0.13	0.01
MEAN	0.002	0.000	0.000	0.000	0.000	0.002	0.003	0.006	0.007	0.000	0.004	0.000
MAX	0.03	0.00	0.00	0.00	0.01	0.03	0.03	0.07	0.05	0.01	0.07	0.01
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.1	0.00	0.00	0.00	0.02	0.1	0.2	0.4	0.4	0.02	0.3	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2003, BY WATER YEAR (WY)

MEAN	0.012	0.001	0.000	0.001	0.000	0.067	2.03	9.05	5.10	0.66	0.57	0.10
MAX	0.12	0.003	0.001	0.015	0.000	0.38	15.7	45.5	27.7	6.78	5.66	0.76
(WY)	(1995)	(1999)	(1993)	(1995)	(1998)	(1996)	(1999)	(1999)	(1997)	(1995)	(1999)	(1994)
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000
(WY)	(1993)	(1993)	(1994)	(1993)	(1993)	(1994)	(1994)	(2000)	(2000)	(1993)	(1993)	(1993)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1992 - 2003	
ANNUAL TOTAL	0.32		0.76			
ANNUAL MEAN	0.001		0.002		1.57	
HIGHEST ANNUAL MEAN					6.48	1999
LOWEST ANNUAL MEAN					0.001	2002
HIGHEST DAILY MEAN	0.06	May 24	0.07	May 1	240	Apr 29, 1999
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	a0.00	Aug 15, 1992
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Aug 15, 1992
MAXIMUM PEAK FLOW			2.7	May 24	b430	Apr 29, 1999
MAXIMUM PEAK STAGE			2.72	May 24	c5.40	Apr 29, 1999
ANNUAL RUNOFF (AC-FT)	0.6		1.5		1,140	
10 PERCENT EXCEEDS	0.00		0.00		0.84	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

a No flow on many days during many years.
b From rating curve extended above 327 ft^3/s.
c From floodmarks.

07103707 FOUNTAIN CREEK AT 8th STREET AT COLORADO SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°49'46", long 104°50'21", in NW¼SE¼ sec.13, T.14 S., R.67 W., El Paso County, Hydrologic Unit 11020003, 270 ft downstream from 8th Street at Colorado Springs, and 0.4 mi upstream from Monument Creek.

DRAINAGE AREA.--119 mi^2.

PERIOD OF RECORD.--February 1981 to January 1982. March 1998 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103707

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

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	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)
NOV													
07...	1105	0.99	9.4	7.9	1,960	6.0	153	92.6	4.30	750	0.340	0.952	<0.02
DEC													
05...	1010	0.72	10.8	8.0	1,530	3.5	135	66.1	3.40	530	0.088	1.24	E.01
FEB													
13...	1130	0.66	9.8	8.1	1,340	6.0	99	49	3.2	422	0.097	1.16	<0.02
APR													
28...	1310	3.0	7.7	8.2	839	17.0	75	25	2.98	205	0.033	0.723	<0.02
JUL													
24...	1545	0.31	5.7	7.7	2,200	27.0	163	89.3	4.25	878	0.102	1.07	<0.02

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

Date	Phosphorus, water, unfltrd mg/L (00665)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Arsenic water, fltrd, ug/L (01000)	Arsenic water unfltrd ug/L (01002)	Boron, water, fltrd, ug/L (01020)	Boron, water, unfltrd recoverable, ug/L (01022)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, fltrd, ug/L (01030)	Chromium, water, unfltrd recoverable, ug/L (01034)
NOV													
07...	0.047	<2.0	--	1,600	1,600	2.6	4.6	217	213	3.0	4.4	1.7	<1.0
DEC													
05...	0.118	<2.0	--	E110	E120	2.8	6.0	187	175	3.6	4.5	2.7	3.3
FEB													
13...	0.246	--	--	E2400	E1900	1.70	6	149	156	3.77	4.78	<0.8	2.7
APR													
28...	0.532	--	E140	--	E130	--	18	102	112	--	--	--	--
JUL													
24...	<0.040	--	840	--	1,600	--	3	261	289	--	--	--	--

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

Date	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recoverable, ug/L (01042)	Cyanide water unfltrd mg/L (00720)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recoverable, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recoverable, ug/L (01051)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, unfltrd recoverable, ug/L (01055)	Mercury water, fltrd, ug/L (71890)	Mercury water, unfltrd recoverable, ug/L (71900)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd recoverable, ug/L (01067)
NOV													
07...	4.9	10	0.18	10.0	974	0.29	7.0	5,350	5,420	<0.018	<0.018	15	16
DEC													
05...	--	13	<0.01	<10.0	2,940	E.25	9.0	2,680	2,600	<0.018	E.011	8.0	9.2
FEB													
13...	3.15	13.2	0.013	<10	5,810	<0.08	10.9	1,910	2,850	<0.018	0.022	8.01	13.6
APR													
28...	2.04	26.4	--	--	--	--	50.3	337	622	--	--	--	11.8
JUL													
24...	4.88	5.47	--	--	--	--	0.75	1,750	1,610	--	--	--	8.19

07103707 FOUNTAIN CREEK AT 8th STREET AT COLORADO SPRINGS, CO—Continued

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

Date	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd recoverable, ug/L (01077)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recoverable, ug/L (01092)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
NOV								
07...	9.4	9.7	0.05	0.08	1,750	1,870	33	0.09
DEC								
05...	11	10	<0.04	0.06	927	973	104	0.20
FEB								
13...	8.02	7.51	<0.20	E.09	831	1,170	205	0.37
APR								
28...	7.39	6.82	--	--	26.9	394	397	3.2
JUL								
24...	11.9	11.0	--	--	220	266	4	0.00

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

07103740 NORTH MONUMENT CREEK AT SPRING STREET AT PALMER LAKE, CO

LOCATION.--Lat 39°06'56", long 104°54'43", in SW¼SE¼ sec.5, T.11 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank at downstream side of bridge on Spring Street at Palmer Lake, 0.1 mi upstream from mouth, and 2.3 mi upstream from Monument Lake.

DRAINAGE AREA.--16.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 2002 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103740

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,120 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by storage reservoirs and diversions for municipal supply of Monument and Palmer Lake.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 38 ft^3/s, Apr. 28, 2003, gage height, 4.57 ft, from rating curve extended above 21 ft^3/s; no flow on many days.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 38 ft^3/s, Apr. 28, gage height, 4.57 ft, from rating curve extended above 21 ft^3/s; no flow on many days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	0.08	1.4	17	2.5	0.79	0.00	0.00
2	---	---	---	---	---	0.08	2.4	15	2.2	0.60	0.00	0.00
3	---	---	---	---	---	0.08	3.2	13	1.9	0.48	0.00	0.00
4	---	---	---	---	---	0.07	3.2	12	1.6	0.39	0.00	0.00
5	---	---	---	---	---	0.07	3.1	10	2.4	0.34	0.00	0.00
6	---	---	---	---	---	0.07	3.9	9.3	2.8	0.31	0.00	0.00
7	---	---	---	---	---	0.06	4.8	8.6	3.1	0.27	0.00	0.00
8	---	---	---	---	---	0.06	4.5	7.8	2.8	0.23	0.00	0.00
9	---	---	---	---	---	0.06	4.4	7.0	2.0	0.20	0.00	0.00
10	---	---	---	---	---	0.07	5.2	6.4	1.9	0.17	0.00	0.00
11	---	---	---	---	---	0.07	6.0	5.7	2.0	0.13	0.00	0.00
12	---	---	---	---	---	0.08	6.8	5.4	1.6	0.11	0.00	0.00
13	---	---	---	---	---	0.09	8.6	5.2	1.5	0.09	0.00	0.00
14	---	---	---	---	---	0.09	11	4.9	1.7	0.07	0.00	0.00
15	---	---	---	---	---	0.09	11	4.7	1.3	0.07	0.00	0.00
16	---	---	---	---	---	0.10	11	5.0	1.1	0.06	0.00	0.00
17	---	---	---	---	---	0.11	11	4.6	1.4	0.05	0.00	0.00
18	---	---	---	---	---	0.13	10	4.2	3.0	0.04	0.00	0.00
19	---	---	---	---	---	0.14	9.3	3.9	3.5	0.03	0.00	0.00
20	---	---	---	---	---	0.17	8.6	3.8	3.1	0.02	0.00	0.00
21	---	---	---	---	---	0.19	8.8	3.5	2.5	0.02	0.00	0.00
22	---	---	---	---	---	0.21	10	3.2	1.9	0.01	0.00	0.00
23	---	---	---	---	---	0.26	11	3.0	1.6	0.01	0.00	0.00
24	---	---	---	---	---	0.38	12	2.8	1.3	0.01	0.00	0.00
25	---	---	---	---	---	0.65	16	3.2	1.2	0.01	0.00	0.00
26	---	---	---	---	---	1.1	23	3.1	1.2	0.01	0.00	0.00
27	---	---	---	---	---	1.3	25	3.1	1.1	0.00	0.00	0.00
28	---	---	---	---	---	1.3	26	2.6	1.0	0.01	0.00	0.00
29	---	---	---	---	---	1.1	23	2.5	1.1	0.01	0.00	0.00
30	---	---	---	---	---	1.0	20	2.3	0.94	0.01	0.00	0.00
31	---	---	---	---	---	1.0	---	2.2	---	0.01	0.00	---
TOTAL	---	---	---	---	---	10.26	304.2	185.0	57.24	4.56	0.00	0.00
MEAN	---	---	---	---	---	0.33	10.1	5.97	1.91	0.15	0.000	0.000
MAX	---	---	---	---	---	1.3	26	17	3.5	0.79	0.00	0.00
MIN	---	---	---	---	---	0.06	1.4	2.2	0.94	0.00	0.00	0.00
AC-FT	---	---	---	---	---	20	603	367	114	9.0	0.00	0.00

07103740 NORTH MONUMENT CREEK AT SPRING STREET AT PALMER LAKE, CO—Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--June 2002 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103740

GAGE.--Tipping-bucket rain gage with satellite telemetry.

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

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.51 inches, Apr. 24, 2003.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 1.51 inches, Apr. 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	0.01	0.04	0.01	0.10	0.00
2	---	---	---	---	---	---	0.00	0.01	0.00	0.00	0.00	0.01
3	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.10	0.31
4	---	---	---	---	---	---	0.05	0.23	0.34	0.00	0.00	0.01
5	---	---	---	---	---	---	0.02	0.00	0.40	0.00	0.07	0.00
6	---	---	---	---	---	---	0.14	0.00	0.27	0.00	0.00	0.00
7	---	---	---	---	---	---	0.00	0.01	0.31	0.00	0.00	0.25
8	---	---	---	---	---	---	0.01	0.00	0.01	0.00	0.00	0.00
9	---	---	---	---	---	---	0.00	0.04	0.01	0.00	0.00	0.02
10	---	---	---	---	---	---	0.00	0.19	0.33	0.00	0.00	0.01
11	---	---	---	---	---	---	0.00	0.01	0.01	0.00	0.04	0.00
12	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
13	---	---	---	---	---	---	0.00	0.00	0.02	0.00	0.00	0.10
14	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
15	---	---	---	---	---	---	0.50	0.39	0.00	0.42	0.00	0.00
16	---	---	---	---	---	---	0.00	0.00	0.00	0.06	0.00	0.00
17	---	---	---	---	---	0.09	0.00	0.00	1.05	0.00	0.06	0.05
18	---	---	---	---	---	0.01	0.04	0.02	1.42	0.00	0.28	0.07
19	---	---	---	---	---	0.02	0.62	0.13	0.14	0.17	0.00	0.00
20	---	---	---	---	---	0.59	0.27	0.04	0.01	0.00	0.00	0.00
21	---	---	---	---	---	0.34	0.00	0.00	0.00	0.00	0.00	0.00
22	---	---	---	---	---	0.08	0.05	0.00	0.00	0.00	0.00	0.00
23	---	---	---	---	---	0.00	0.10	0.00	0.00	0.28	0.15	0.00
24	---	---	---	---	---	0.01	1.51	0.08	0.04	0.00	0.77	0.00
25	---	---	---	---	---	0.11	0.03	0.01	0.43	0.00	0.00	0.00
26	---	---	---	---	---	0.02	0.00	0.00	0.09	0.13	0.00	0.00
27	---	---	---	---	---	0.01	0.00	0.00	0.00	0.00	0.00	0.00
28	---	---	---	---	---	0.02	0.00	0.04	0.55	0.20	0.04	0.00
29	---	---	---	---	---	0.00	0.00	0.02	0.01	0.00	0.08	0.00
30	---	---	---	---	---	0.02	0.00	0.28	0.00	0.00	0.75	0.00
31	---	---	---	---	---	0.00	---	0.06	---	0.02	0.03	---
TOTAL	---	---	---	---	---	---	3.34	1.57	5.48	1.29	2.47	0.83
MAX	---	---	---	---	---	---	1.51	0.39	1.42	0.42	0.77	0.31

07103780 MONUMENT CREEK ABOVE NORTH GATE BOULEVARD AT U.S. AIR FORCE ACADEMY, CO

LOCATION.--Lat 39°01'52", long 104°50'52", in SW¼SW¼ sec.1, T.12 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on U.S. Air Force Academy, on right bank 50 ft upstream from Denver and Rio Grande Western Railroad bridge, 0.8 mi upstream from North Gate Boulevard, and 1.5 mi downstream from Beaver Creek.

DRAINAGE AREA.--81.7 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 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=07103780

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,640 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	3.7	2.8	e2.8	3.4	e3.0	13	33	9.6	5.6	2.5	3.1
2	3.1	3.9	2.9	e3.3	e3.2	3.1	12	34	8.6	4.4	2.2	3.4
3	3.5	3.9	2.7	3.1	e3.1	3.2	10	32	7.4	4.4	2.4	4.4
4	3.1	3.8	2.7	3.5	e3.0	3.0	10	30	5.9	4.0	2.5	4.3
5	3.1	3.5	e2.8	2.9	e2.8	e2.8	7.9	26	10	3.6	2.3	3.2
6	3.1	3.2	e3.0	2.9	e2.6	e2.9	8.2	21	9.8	3.5	1.8	3.5
7	3.1	3.2	e2.8	2.8	e2.5	3.0	9.5	21	9.8	3.4	1.0	5.8
8	2.2	3.2	e2.7	2.9	e2.4	2.7	13	21	8.8	3.1	1.4	4.8
9	1.9	3.3	e2.8	e2.7	e2.6	2.7	13	17	6.2	2.8	1.2	3.6
10	2.1	3.5	e2.8	e2.6	e2.8	2.8	10	19	5.5	2.9	1.2	2.8
11	2.2	3.7	e2.8	e2.6	e3.0	2.6	6.2	17	7.1	3.1	1.3	2.5
12	2.4	3.3	e2.8	e2.8	e3.1	2.5	6.7	17	7.5	e2.4	1.8	2.4
13	2.7	3.3	e3.0	2.9	3.2	2.6	11	16	7.9	e2.2	1.6	2.9
14	2.4	3.7	e2.6	2.7	3.5	2.5	18	15	4.8	e2.1	1.7	2.9
15	2.3	3.5	e2.6	e2.8	3.2	2.7	22	17	4.4	e2.1	1.9	3.0
16	2.6	3.2	e2.6	e2.6	3.0	2.8	25	16	5.0	e2.0	1.6	2.7
17	3.2	3.1	e2.6	e2.5	2.9	3.0	22	14	14	e2.0	1.7	2.5
18	3.1	3.0	e2.6	e2.5	2.9	3.5	18	14	25	e2.0	2.7	2.6
19	3.2	2.6	e2.5	e2.8	2.8	e2.5	20	15	20	e2.1	2.4	4.1
20	3.2	2.5	e2.4	2.9	2.7	5.2	20	14	25	e2.3	1.5	2.4
21	3.0	2.6	e2.5	e2.8	3.1	5.5	18	12	13	2.4	1.1	2.3
22	3.2	2.5	e2.6	e2.7	2.8	5.2	13	11	8.6	2.8	1.3	2.5
23	3.3	2.7	e2.5	e2.7	e2.8	6.3	20	11	8.5	2.7	1.1	2.4
24	3.5	2.8	e2.5	3.1	e2.6	6.9	35	9.0	7.8	2.7	0.96	1.8
25	3.1	2.8	e2.5	e2.7	e2.7	6.4	31	8.6	7.5	2.8	1.2	1.7
26	3.6	e2.7	e2.5	e2.8	2.8	9.3	19	8.3	11	2.5	1.3	1.7
27	4.5	e2.6	e2.7	2.9	2.9	11	7.9	8.0	8.1	2.9	1.7	1.7
28	3.8	e2.7	e3.0	2.8	e2.8	7.4	32	6.5	8.0	2.6	1.7	2.0
29	3.5	e2.7	e3.0	3.2	---	5.2	46	6.6	13	2.6	1.9	2.3
30	3.2	2.7	e2.9	3.3	---	4.6	33	16	7.3	2.2	3.4	2.8
31	3.6	---	e3.0	3.7	---	5.8	---	12	---	2.2	13	---
TOTAL	93.3	93.9	84.2	89.3	81.2	132.7	530.4	518.0	295.1	88.4	65.36	88.1
MEAN	3.01	3.13	2.72	2.88	2.90	4.28	17.7	16.7	9.84	2.85	2.11	2.94
MAX	4.5	3.9	3.0	3.7	3.5	11	46	34	25	5.6	13	5.8
MIN	1.9	2.5	2.4	2.5	2.4	2.5	6.2	6.5	4.4	2.0	0.96	1.7
AC-FT	185	186	167	177	161	263	1,050	1,030	585	175	130	175

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2003, BY WATER YEAR (WY)

MEAN	5.20	6.10	5.24	4.94	5.24	8.45	26.3	47.3	22.6	8.77	8.14	5.10
MAX	11.4	13.0	9.91	10.1	10.8	21.1	75.5	210	77.8	30.6	36.7	15.7
(WY)	(2000)	(1998)	(2000)	(2000)	(2000)	(1998)	(1999)	(1999)	(1999)	(1995)	(1999)	(1997)
MIN	0.95	1.63	1.54	1.08	1.81	2.38	5.67	5.23	2.74	1.04	0.90	1.16
(WY)	(1990)	(1990)	(1990)	(1990)	(1990)	(1991)	(2002)	(2002)	(2002)	(1989)	(1989)	(1989)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1985 - 2003	
ANNUAL TOTAL	1,237.0		2,159.96			
ANNUAL MEAN	3.39		5.92		12.4	
HIGHEST ANNUAL MEAN					39.6	1999
LOWEST ANNUAL MEAN					3.58	2002
HIGHEST DAILY MEAN	10	Apr 21	46	Apr 29	1,250	Apr 30, 1999
LOWEST DAILY MEAN	1.2	Aug 17	0.96	Aug 24	0.58	Oct 15, 1989
ANNUAL SEVEN-DAY MINIMUM	1.4	Aug 6	1.2	Aug 20	0.69	Aug 26, 1989
MAXIMUM PEAK FLOW			a130	Jun 18	b1,790	Apr 30, 1999
MAXIMUM PEAK STAGE			7.84	Jun 18	c9.01	Apr 30, 1999
ANNUAL RUNOFF (AC-FT)	2,450		4,280		8,970	
10 PERCENT EXCEEDS	5.2		14		26	
50 PERCENT EXCEEDS	3.1		3.0		5.6	
90 PERCENT EXCEEDS	1.8		2.2		2.0	

e Estimated.
a From rating curve extended above 54 ft^3/s on basis of slope-area measurement of peak flow.
b From slope-area measurement of peak flow.
c From floodmarks.

07103780 MONUMENT CREEK ABOVE NORTH GATE BOULEVARD AT U.S. AIR FORCE ACADEMY, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1984 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103780

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

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	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)
NOV													
07...	1320	3.4	14.7	9.1	498	8.0	37	8.2	1.05	41.2	0.204	1.03	1.5
DEC													
03...	0830	2.3	11.1	7.7	493	2.5	34	8.0	1.12	42.4	0.568	1.30	2.1
FEB													
14...	1215	3.9	11.6	8.5	483	7.5	29	7.7	1.1	39.8	0.149	5.11	2.2
JUL													
31...	1030	2.6	10.1	8.5	512	19.5	34.3	12.1	1.39	35.1	E.008	1.26	1.6
AUG													
21...	1115	1.5	8.2	8.1	487	21.0	30.2	7.20	1.42	33.8	0.042	0.108	1.7

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

Date	Phosphorus, water, unfltrd mg/L (00665)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Arsenic water, fltrd, ug/L (01000)	Arsenic water unfltrd ug/L (01002)	Boron, water, fltrd, ug/L (01020)	Boron, water, unfltrd recoverable, ug/L (01022)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, fltrd, ug/L (01030)	Chromium, water, unfltrd recoverable, ug/L (01034)
NOV													
07...	1.66	<2.0	--	11	13	<1.9	<2	225	222	0.058	<0.22	E.5	<0.8
DEC													
03...	2.26	2.0	--	E10	15	<1.9	<2	282	276	0.081	<0.22	<0.8	<0.8
FEB													
14...	2.46	--	--	10	E9	E.86	<2	238	229	E.096	E.028	<0.8	<0.8
JUL													
31...	2.11	--	130	--	120	E1.4	E2	252	248	0.075	<0.22	<0.8	<0.8
AUG													
21...	2.23	--	92	--	78	1.78	3	228	248	E.024	E.029	<0.8	E.5

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

Date	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recoverable, ug/L (01042)	Cyanide water unfltrd mg/L (00720)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recoverable, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recoverable, ug/L (01051)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, unfltrd recoverable, ug/L (01055)	Mercury water, fltrd, ug/L (71890)	Mercury water, unfltrd recoverable, ug/L (71900)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd recoverable, ug/L (01067)
NOV													
07...	2.55	2	<0.009	85	292	0.21	E.5	22.5	39.9	<0.018	<0.018	2.83	E2
DEC													
03...	3.49	4	<0.009	59	346	0.37	E.6	42.6	60.9	<0.018	<0.018	3.63	3
FEB													
14...	5.75	6.00	<0.009	43	193	0.53	0.62	20.4	31.0	<0.018	<0.018	4.43	5.32
JUL													
31...	2.30	3	<0.009	54.1	775	0.18	E.8	54.6	96.5	<0.018	<0.018	3.55	4
AUG													
21...	1.43	2.42	<0.009	45.8	1,040	0.12	0.77	61.6	133	<0.018	<0.018	4.15	4.49

07103780 MONUMENT CREEK ABOVE NORTH GATE BOULEVARD AT U.S. AIR FORCE ACADEMY, CO—Continued

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

Date	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd recoverable, ug/L (01077)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recoverable, ug/L (01092)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
NOV								
07...	<2.6	<2.6	<0.20	<0.26	14.9	<25	6	0.06
DEC								
03...	<2.6	<2.6	<0.20	<0.26	20.5	E24.3	6	0.04
FEB								
14...	<2.50	E.29	<1.00	<0.16	29.4	28.9	5	0.05
JUL								
31...	<3	<3	<0.20	<0.26	12.3	15.4	12	0.08
AUG								
21...	E.39	0.69	<0.20	<0.16	6.4	10.5	--	--

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

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					
05...	1530	3.3	--	495	7.0
DEC					
03...	0820	2.3	--	478	2.0
17...	1035	2.9	--	479	3.0
JAN					
02...	1545	4.6	--	515	3.5
FEB					
04...	1550	4.4	--	548	5.0
MAR					
06...	0815	2.0	--	499	0.0
31...	1000	6.2	--	489	8.0
APR					
29...	1340	54	--	182	15.0
MAY					
14...	1335	16	--	253	17.5
JUN					
09...	1445	6.3	--	418	19.5
09...	1446	6.3	--	414	19.5
JUL					
21...	1300	2.4	378	--	--
AUG					
07...	1715	0.92	483	--	--
SEP					
05...	1345	3.5	492	--	--

07103780 MONUMENT CREEK ABOVE NORTH GATE BOULEVARD AT U.S. AIR FORCE ACADEMY, CO—Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--April 2000 to September 2003 (discontinued) (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103780

GAGE.--Tipping-bucket rain gage with satellite telemetry.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.56 inches, May 8, 2000 and Aug. 30, 2003.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 1.56 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	0.19	---	---	---	---	---	0.00	0.00	0.01	0.01	0.00	0.00
2	0.11	---	---	---	---	---	0.00	0.00	0.00	0.00	0.02	0.01
3	0.08	---	---	---	---	---	0.00	0.00	0.00	0.00	0.48	0.38
4	0.00	---	---	---	---	---	0.00	0.06	0.12	0.00	0.02	0.00
5	0.00	---	---	---	---	---	0.01	0.00	0.49	0.00	0.08	0.01
6	0.00	---	---	---	---	---	0.29	0.00	0.06	0.00	0.00	0.00
7	0.01	---	---	---	---	---	0.00	0.00	0.20	0.00	0.10	0.56
8	0.00	---	---	---	---	---	0.00	0.00	0.01	0.00	0.00	0.00
9	0.00	---	---	---	---	---	0.00	0.18	0.01	0.00	0.39	0.03
10	0.00	---	---	---	---	---	0.00	0.16	0.12	0.00	0.06	0.00
11	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.28	0.00
12	0.00	---	---	---	---	---	0.00	0.00	0.05	0.00	0.00	0.01
13	0.00	---	---	---	---	---	0.00	0.00	0.02	0.00	0.00	0.04
14	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	---	---	---	---	---	0.26	0.44	0.00	0.00	0.00	0.00
16	0.00	---	---	---	---	---	0.00	0.00	0.32	0.03	0.00	0.00
17	0.00	---	---	---	---	---	0.00	0.00	1.04	0.00	0.01	0.00
18	0.00	---	---	---	---	---	0.10	0.02	0.21	0.00	0.44	0.00
19	0.00	---	---	---	---	---	0.24	0.00	0.48	0.61	0.00	0.00
20	0.00	---	---	---	---	---	0.10	0.01	0.01	0.00	0.00	0.00
21	0.00	---	---	---	---	---	0.01	0.00	0.00	0.00	0.00	0.00
22	0.00	---	---	---	---	---	0.28	0.00	0.00	0.00	0.00	0.00
23	0.00	---	---	---	---	---	0.47	0.00	0.00	0.02	0.00	0.00
24	0.05	---	---	---	---	---	0.47	0.00	0.00	0.00	0.15	0.00
25	0.01	---	---	---	---	---	0.01	0.01	0.31	0.03	0.00	0.00
26	0.41	---	---	---	---	---	0.00	0.00	0.35	0.23	0.00	0.00
27	0.15	---	---	---	---	---	0.00	0.00	0.00	0.00	0.50	0.00
28	0.02	---	---	---	---	---	0.00	0.05	0.09	0.22	0.04	0.00
29	0.00	---	---	---	---	---	0.00	0.01	0.00	0.01	0.20	0.00
30	0.00	---	---	---	---	---	0.00	0.82	0.00	0.00	1.56	0.00
31	0.00	---	---	---	---	---	---	0.07	---	0.01	0.14	---
TOTAL	1.03	---	---	---	---	---	2.24	1.83	3.90	1.17	4.47	1.04
MAX	0.41	---	---	---	---	---	0.47	0.82	1.04	0.61	1.56	0.56

07103785 DEADMANS CREEK ABOVE DEADMANS LAKE AT U.S. AIR FORCE ACADEMY, CO

LOCATION.--Lat 39°01'27", long 104°54'03", in NE¼NW¼ sec.9, T.12 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on U.S. Air Force Academy, on left bank 100 ft upstream from Deadmans Lake, 1.2 mi northwest of the Air Force Academy Chapel, 3.7 mi west of Interstate-25, and 5.0 mi southwest of Monument.

DRAINAGE AREA.--1.55 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 2000 to September 2003 (discontinued). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103785

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,220 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. 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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.02	0.01	0.02	0.04	0.14	0.40	0.06	0.05	0.00	0.00
2	0.00	0.00	0.02	0.01	0.02	0.04	0.19	0.36	0.06	0.05	0.00	0.00
3	0.00	0.00	0.02	0.01	0.02	0.04	0.21	0.33	0.06	0.04	0.00	0.00
4	0.00	0.00	0.02	0.01	0.02	0.04	0.19	0.30	0.05	0.03	0.00	0.00
5	0.00	0.00	0.02	0.01	0.02	0.05	0.18	0.26	0.07	0.03	0.00	0.00
6	0.00	0.00	0.02	0.01	e0.02	0.05	0.18	0.25	0.08	0.03	0.00	0.00
7	0.00	0.00	0.02	0.01	e0.02	0.04	0.15	0.23	0.08	0.02	0.00	0.00
8	0.00	0.00	0.02	0.01	e0.02	0.04	0.14	0.21	0.06	0.02	0.00	0.00
9	0.00	0.00	0.02	0.01	e0.02	0.04	0.17	0.22	0.06	0.02	0.00	0.00
10	0.00	0.00	0.02	0.01	e0.02	0.04	0.21	0.22	0.07	0.02	0.00	0.00
11	0.00	0.00	0.02	0.01	e0.03	0.05	0.24	0.20	0.06	0.02	0.00	0.00
12	0.00	0.00	0.02	0.01	0.03	0.04	0.26	0.19	0.06	0.01	0.00	0.00
13	0.00	0.00	0.02	0.01	0.03	0.05	0.29	0.17	0.06	0.01	0.00	0.00
14	0.00	0.01	0.02	0.01	0.02	0.05	0.32	0.16	0.06	0.01	0.00	0.00
15	0.00	0.01	0.02	0.01	0.02	0.05	0.32	0.20	0.06	0.01	0.00	0.00
16	0.00	0.02	0.02	0.02	0.03	0.05	0.31	0.21	0.06	0.01	0.00	0.00
17	0.00	0.02	0.02	0.02	0.03	0.05	0.30	0.16	0.06	0.01	0.00	0.00
18	0.00	0.02	0.02	e0.01	0.03	0.06	0.27	0.14	0.06	0.00	0.00	0.00
19	0.00	0.02	0.02	0.01	0.02	0.04	0.25	0.14	0.06	0.00	0.00	0.00
20	0.00	0.02	0.02	0.01	0.03	0.05	0.23	0.14	0.06	0.00	0.00	0.00
21	0.00	0.02	0.02	0.01	0.03	0.05	0.26	0.12	0.06	0.00	0.00	0.00
22	0.00	0.02	0.02	0.01	0.03	0.06	0.31	0.10	0.06	0.00	0.00	0.00
23	0.00	0.02	e0.01	0.01	e0.03	0.08	0.36	0.10	0.06	0.00	0.00	0.00
24	0.00	0.02	e0.01	0.01	e0.03	0.08	0.36	0.09	0.06	0.00	0.00	0.00
25	0.00	0.02	e0.01	0.02	e0.03	0.09	0.46	0.09	0.06	0.00	0.00	0.00
26	0.00	0.02	e0.01	0.02	0.03	0.12	0.64	0.09	0.05	0.00	0.00	0.00
27	0.00	0.02	e0.01	0.02	0.03	0.12	0.61	0.08	0.05	0.00	0.00	0.00
28	0.00	0.02	0.01	0.02	0.04	0.09	0.55	0.07	0.05	0.00	0.00	0.00
29	0.00	0.02	0.01	0.02	---	0.09	0.51	0.07	0.06	0.00	0.00	0.00
30	0.00	0.02	0.01	0.02	---	0.09	0.46	0.07	0.06	0.00	0.00	0.00
31	0.00	---	0.01	0.02	---	0.11	---	0.07	---	0.00	0.00	---
TOTAL	0.00	0.32	0.53	0.40	0.72	1.89	9.07	5.44	1.82	0.39	0.00	0.00
MEAN	0.000	0.011	0.017	0.013	0.026	0.061	0.30	0.18	0.061	0.013	0.000	0.000
MAX	0.00	0.02	0.02	0.02	0.04	0.12	0.64	0.40	0.08	0.05	0.00	0.00
MIN	0.00	0.00	0.01	0.01	0.02	0.04	0.14	0.07	0.05	0.00	0.00	0.00
AC-FT	0.00	0.6	1.1	0.8	1.4	3.7	18	11	3.6	0.8	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2003, BY WATER YEAR (WY)

MEAN	0.051	0.068	0.061	0.063	0.059	0.099	0.46	0.35	0.097	0.028	0.017	0.025
MAX	0.10	0.12	0.11	0.12	0.10	0.16	1.02	0.58	0.16	0.050	0.040	0.072
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)
MIN	0.000	0.011	0.017	0.013	0.026	0.061	0.13	0.089	0.024	0.000	0.000	0.000
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2000 - 2003	
ANNUAL TOTAL	13.73		20.58			
ANNUAL MEAN	0.038		0.056		0.088	
HIGHEST ANNUAL MEAN					0.16	2001
LOWEST ANNUAL MEAN					0.051	2002
HIGHEST DAILY MEAN	0.17	Apr 7	0.64	Apr 26	1.3	Apr 14, 2000
LOWEST DAILY MEAN	0.00	Jun 27	0.00	Oct 1	a0.00	Aug 2, 2000
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 27	0.00	Oct 1	0.00	Aug 8, 2000
MAXIMUM PEAK FLOW			b0.81	Apr 26	b1.5	Apr 9, 2000
MAXIMUM PEAK STAGE			3.89	Apr 26	4.05	Apr 9, 2000
ANNUAL RUNOFF (AC-FT)	27		41		64	
10 PERCENT EXCEEDS	0.10		0.19		0.21	
50 PERCENT EXCEEDS	0.02		0.02		0.05	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated.
a No flow on many days during most years.
b From rating curve extended above 0.90 ft^3/s.

07103785 DEADMANS CREEK ABOVE DEADMANS LAKE AT U. S. AIR FORCE ACADEMY, CO—Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--April 2000 to September 2003 (discontinued) (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103785

GAGE.--Tipping-bucket rain gage with satellite telemetry.

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

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.66 inches, May 8, 2000.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 0.92 inch, 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	0.38	---	---	---	---	---	0.00	0.02	0.00	0.01	0.01	0.00
2	0.16	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.03
3	0.02	---	---	---	---	---	0.00	0.01	0.00	0.00	0.79	0.33
4	0.00	---	---	---	---	---	0.00	0.03	---	0.00	0.09	0.00
5	0.00	---	---	---	---	---	0.04	0.00	---	0.00	0.32	0.00
6	0.00	---	---	---	---	---	0.24	0.00	---	0.00	0.00	0.01
7	0.00	---	---	---	---	---	0.00	0.00	---	0.00	0.03	0.44
8	0.00	---	---	---	---	---	0.00	0.00	---	0.00	0.01	0.00
9	0.00	---	---	---	---	---	0.01	0.14	0.03	0.00	0.35	0.02
10	0.00	---	---	---	---	---	0.00	0.16	0.14	0.00	0.00	0.00
11	0.00	---	---	---	---	---	0.00	0.00	0.01	0.00	0.33	0.00
12	0.00	---	---	---	---	---	0.00	0.00	0.07	0.00	0.00	0.00
13	0.00	---	---	---	---	---	0.00	0.00	0.02	0.00	0.00	0.07
14	0.01	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	---	---	---	---	---	0.42	0.61	0.00	0.02	0.00	0.00
16	0.00	---	---	---	---	---	0.00	0.00	0.01	0.02	0.00	0.00
17	0.00	---	---	---	---	---	0.00	0.00	0.12	0.00	0.01	0.00
18	0.00	---	---	---	---	---	0.06	0.02	0.06	0.01	0.85	0.02
19	0.00	---	---	---	---	---	0.43	0.04	0.24	0.92	0.01	0.00
20	0.00	---	---	---	---	---	0.16	0.03	0.01	0.01	0.00	0.00
21	0.00	---	---	---	---	---	0.00	0.01	0.00	0.00	0.07	0.00
22	0.00	---	---	---	---	---	0.43	0.00	0.00	0.00	0.00	0.00
23	0.00	---	---	---	---	---	0.22	0.00	0.00	0.05	0.00	0.00
24	0.08	---	---	---	---	---	0.81	0.00	0.00	0.00	0.15	0.00
25	0.01	---	---	---	---	---	0.01	0.02	0.34	0.00	0.00	0.00
26	0.30	---	---	---	---	---	0.00	0.00	0.45	0.55	0.00	0.00
27	0.18	---	---	---	---	---	0.00	0.00	0.00	0.00	0.52	0.00
28	0.00	---	---	---	---	---	0.00	0.02	0.03	0.04	0.03	0.00
29	0.00	---	---	---	---	---	0.00	0.01	0.05	0.00	0.22	0.00
30	0.00	---	---	---	---	---	0.00	0.02	0.00	0.00	0.86	0.00
31	0.00	---	---	---	---	---	---	0.33	---	0.02	0.13	---
TOTAL	1.14	---	---	---	---	---	2.83	1.47	---	1.65	4.78	0.92
MAX	0.38	---	---	---	---	---	0.81	0.61	---	0.92	0.86	0.44

07103790 MONUMENT CREEK BELOW SEWAGE TREATMENT PLANT AT U.S. AIR FORCE ACADEMY, CO

LOCATION.--Lat 38°58'53", long 104°49'50", in NW¼NW¼ sec.30, T.12 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on U.S. Air Force Academy, on right bank 100 ft upstream from Sante Fe Recreation Trail footbridge, 1.0 mi west of Interstate 25, 1.2 mi southeast of Falcon Stadium, and 1.5 mi northwest of the south entrance to the U.S. Air Force Academy.

DRAINAGE AREA.--122 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 2000 to September 2003 (seasonal records only) (discontinued). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103790

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,420 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and those above 30 ft^3/s, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. 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.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 218 ft^3/s, Aug. 31, 2003, gage height, 4.95 ft, from rating curve extended above 44 ft^3/s; minimum daily, 1.5 ft^3/s, Aug. 17, 2002.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 218 ft^3/s, Aug. 31, gage height, 4.95 ft, from rating curve extended above 44 ft^3/s; minimum daily, 1.7 ft^3/s, Aug. 24.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	5.3	---	---	---	---	12	35	12	6.9	2.6	9.5
2	4.1	5.4	---	---	---	---	13	36	11	4.9	2.4	6.8
3	4.8	5.5	---	---	---	---	12	35	9.7	4.6	2.4	7.0
4	4.3	5.4	---	---	---	---	12	34	7.7	4.1	2.8	7.7
5	4.2	4.9	---	---	---	---	10	32	12	3.7	2.4	5.8
6	4.1	4.8	---	---	---	---	10	24	12	3.7	2.2	5.5
7	4.3	4.8	---	---	---	---	10	23	12	3.8	1.8	6.9
8	3.4	4.7	---	---	---	---	13	22	12	3.5	2.1	8.2
9	2.8	4.6	---	---	---	---	14	19	9.1	3.1	2.2	6.1
10	2.8	4.8	---	---	---	---	12	21	8.1	3.2	2.5	5.3
11	2.9	4.8	---	---	---	---	8.7	19	8.9	3.5	3.2	4.2
12	2.9	4.8	---	---	---	---	8.4	18	9.6	3.0	3.8	4.1
13	e3.7	4.6	---	---	---	---	11	17	10	2.8	2.8	4.1
14	e3.5	4.7	---	---	---	---	16	16	6.5	2.6	2.5	4.7
15	e3.4	4.7	---	---	---	---	22	18	5.1	2.5	2.5	4.2
16	e3.5	4.6	---	---	---	---	27	19	5.8	2.5	2.2	4.1
17	3.8	4.5	---	---	---	---	25	15	12	2.4	2.2	3.6
18	3.9	4.2	---	---	---	---	21	15	27	2.4	2.8	3.6
19	3.9	3.8	---	---	---	---	21	16	29	2.5	3.5	4.8
20	4.1	3.5	---	---	---	---	23	17	31	3.0	2.3	3.3
21	4.1	3.5	---	---	---	---	21	15	17	2.8	1.9	3.0
22	4.2	3.6	---	---	---	---	17	13	10	2.9	1.9	3.1
23	4.5	3.7	---	---	---	---	19	13	9.7	3.0	1.8	3.5
24	4.7	3.9	---	---	---	---	38	12	8.9	2.9	1.7	2.6
25	4.7	4.0	---	---	---	---	38	11	8.5	2.9	1.9	2.5
26	4.6	e3.8	---	---	---	---	25	11	13	2.9	1.8	2.4
27	6.3	e3.6	---	---	---	---	12	11	10	3.0	2.9	2.4
28	5.9	e3.7	---	---	---	---	29	8.9	8.8	2.8	2.8	2.6
29	5.4	e3.8	---	---	---	---	54	8.0	14	2.8	4.8	2.8
30	5.0	e4.0	---	---	---	---	37	12	9.2	2.9	24	3.6
31	5.0	---	---	---	---	---	---	18	---	2.6	69	---
TOTAL	128.1	132.0	---	---	---	---	591.1	583.9	359.6	100.2	165.7	138.0
MEAN	4.13	4.40	---	---	---	---	19.7	18.8	12.0	3.23	5.35	4.60
MAX	6.3	5.5	---	---	---	---	54	36	31	6.9	69	9.5
MIN	2.8	3.5	---	---	---	---	8.4	8.0	5.1	2.4	1.7	2.4
AC-FT	254	262	---	---	---	---	1,170	1,160	713	199	329	274

e Estimated.

07103790 MONUMENT CREEK BELOW SEWAGE TREATMENT PLANT AT U.S. AIR FORCE ACADEMY, CO—Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--April 2000 to September 2003 (discontinued) (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103790

GAGE.--Tipping-bucket rain gage with satellite telemetry.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.91 inches, Aug. 30, 2003,

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 1.91 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	0.17	---	---	---	---	---	0.00	0.00	0.26	0.00	0.03	0.00
2	0.05	---	---	---	---	---	0.00	0.00	0.00	0.00	0.04	0.05
3	0.06	---	---	---	---	---	0.00	0.01	0.00	0.00	0.13	0.47
4	0.00	---	---	---	---	---	0.00	0.03	0.29	0.00	0.04	0.00
5	0.00	---	---	---	---	---	0.03	0.00	0.44	0.00	0.06	0.01
6	0.00	---	---	---	---	---	0.19	0.01	0.08	0.00	0.00	0.11
7	0.00	---	---	---	---	---	0.00	0.00	0.18	0.00	0.14	0.47
8	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.03	0.01
9	0.00	---	---	---	---	---	0.00	0.22	0.06	0.00	0.08	0.07
10	0.00	---	---	---	---	---	0.00	0.09	0.16	0.00	0.11	0.01
11	0.00	---	---	---	---	---	0.00	0.00	0.01	0.00	0.08	0.00
12	0.00	---	---	---	---	---	0.00	0.00	0.08	0.00	0.00	0.00
13	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.03
14	0.00	---	---	---	---	---	0.00	0.00	0.01	0.00	0.00	0.01
15	0.00	---	---	---	---	---	0.13	0.15	0.00	0.00	0.00	0.00
16	0.00	---	---	---	---	---	0.01	0.00	0.16	0.02	0.00	0.00
17	0.00	---	---	---	---	---	0.00	0.00	0.63	0.00	0.00	0.00
18	0.00	---	---	---	---	---	0.02	0.12	0.02	0.06	0.19	0.00
19	0.00	---	---	---	---	---	0.17	0.01	0.54	0.49	0.01	0.00
20	0.00	---	---	---	---	---	0.03	0.00	0.00	0.00	0.00	0.00
21	0.00	---	---	---	---	---	0.01	0.00	0.00	0.00	0.00	0.00
22	0.00	---	---	---	---	---	0.37	0.00	0.00	0.00	0.00	0.00
23	0.00	---	---	---	---	---	0.51	0.03	0.00	0.02	0.00	0.00
24	0.03	---	---	---	---	---	0.55	0.00	0.00	0.00	0.37	0.00
25	0.03	---	---	---	---	---	0.01	0.02	0.44	0.14	0.00	0.00
26	0.46	---	---	---	---	---	0.00	0.00	0.51	0.39	0.00	0.00
27	0.13	---	---	---	---	---	0.00	0.00	0.00	0.03	0.35	0.00
28	0.01	---	---	---	---	---	0.00	0.00	0.03	0.12	0.03	0.00
29	0.00	---	---	---	---	---	0.00	0.00	0.02	0.01	1.67	0.00
30	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	1.91	0.00
31	0.00	---	---	---	---	---	---	0.04	---	0.06	0.06	---
TOTAL	0.94	---	---	---	---	---	2.03	0.73	3.92	1.34	5.33	1.24
MAX	0.46	---	---	---	---	---	0.55	0.22	0.63	0.49	1.91	0.47

07103797 WEST MONUMENT CREEK BELOW RAMPART RESERVOIR, CO

LOCATION.--Lat 38°58'30", long 104°57'18", in NE¼SE¼ sec.26, T.12 S., R.68 W., El Paso County, Hydrologic Unit 11020003, on Pike National Forest, on right bank 0.1 mi below Wildcat Gulch, and 0.5 mi below Rampart Reservoir.

DRAINAGE AREA.--7.29 mi^2.

PERIOD OF RECORD.--November 1993 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103797

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 8,710 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoir and transmountain diversions. Flow mostly regulated by Rampart Reservoir 0.5 mi upstream. 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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	3.5	3.4	3.5	3.8	3.6	3.8	3.3	3.5	3.4	3.8	4.6
2	3.5	3.5	3.4	3.5	3.8	3.6	4.0	3.2	3.4	3.4	3.7	4.6
3	3.4	3.6	3.4	3.5	3.8	3.6	4.0	3.3	3.4	3.4	3.8	4.5
4	3.5	3.6	3.3	3.6	3.8	3.6	3.9	3.3	3.4	3.3	3.8	4.3
5	3.6	3.5	3.3	3.6	3.8	3.6	3.6	3.2	3.9	3.3	3.8	4.3
6	3.5	3.6	3.3	3.6	3.8	3.6	3.6	3.4	4.0	3.3	3.8	4.3
7	3.5	3.6	3.4	3.6	3.8	3.6	3.6	3.5	3.9	3.3	3.8	4.4
8	3.5	3.6	3.5	3.3	3.8	3.6	3.6	3.5	3.6	3.3	3.9	4.3
9	3.6	3.7	3.5	3.2	3.9	3.6	3.7	3.4	3.5	3.3	4.0	4.1
10	3.6	3.6	3.6	3.3	4.0	3.6	3.8	3.5	3.5	3.4	3.9	4.1
11	3.6	3.5	3.5	3.3	4.0	3.7	3.9	3.4	3.4	3.4	4.0	4.1
12	3.6	3.4	3.6	3.3	4.0	3.6	3.7	3.4	3.5	3.4	4.0	4.1
13	3.4	3.4	3.7	3.3	4.0	3.5	3.6	3.4	3.6	3.5	4.0	4.1
14	3.5	3.4	3.6	3.3	4.0	3.5	3.5	3.4	3.5	3.5	3.9	4.1
15	3.6	3.4	3.7	3.3	4.0	3.5	3.5	3.5	3.5	3.5	3.9	4.0
16	3.6	3.4	4.0	3.3	4.0	3.5	3.5	3.8	3.5	3.5	3.9	4.0
17	3.6	3.4	4.1	3.3	4.0	3.7	3.5	3.8	3.5	3.7	4.0	4.0
18	3.8	3.4	3.8	3.3	4.1	3.6	3.4	3.7	3.5	3.7	4.1	4.1
19	3.9	3.4	3.6	3.3	4.1	3.6	3.4	3.7	3.7	3.7	4.1	4.0
20	e3.8	3.4	3.6	3.3	4.1	3.6	3.4	3.6	3.7	3.7	4.1	4.0
21	3.8	3.4	3.6	3.3	4.1	3.6	3.5	3.4	3.5	e3.7	4.1	4.0
22	3.8	3.4	3.6	3.3	4.2	3.6	3.5	3.4	3.5	e3.7	4.1	4.0
23	3.8	3.4	3.5	3.4	4.2	3.7	3.6	3.4	3.4	3.7	4.2	4.0
24	3.8	3.4	3.4	3.4	4.0	3.7	3.7	3.4	3.4	3.7	4.3	4.1
25	3.8	3.4	3.4	3.6	3.9	3.7	4.0	3.4	3.5	3.7	4.4	4.1
26	3.8	3.4	3.4	3.7	3.7	3.6	3.8	3.4	3.7	3.8	4.5	4.1
27	3.8	3.4	3.5	3.7	3.5	3.6	3.5	3.3	3.4	3.7	4.5	4.1
28	3.8	3.4	3.5	3.7	3.6	3.5	3.5	3.4	3.4	3.8	4.5	4.1
29	3.8	3.4	3.5	3.7	---	3.5	3.5	3.4	3.5	3.8	4.5	4.1
30	3.7	3.4	3.5	3.8	---	3.5	3.4	3.4	3.5	3.7	4.6	4.1
31	3.5	---	3.5	3.8	---	3.7	---	3.5	---	3.7	4.7	---
TOTAL	112.9	103.9	109.7	107.1	109.8	111.5	109.0	106.7	106.3	110.0	126.7	124.7
MEAN	3.64	3.46	3.54	3.45	3.92	3.60	3.63	3.44	3.54	3.55	4.09	4.16
MAX	3.9	3.7	4.1	3.8	4.2	3.7	4.0	3.8	4.0	3.8	4.7	4.6
MIN	3.4	3.4	3.3	3.2	3.5	3.5	3.4	3.2	3.4	3.3	3.7	4.0
AC-FT	224	206	218	212	218	221	216	212	211	218	251	247

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2003, BY WATER YEAR (WY)

MEAN	4.47	4.97	5.60	5.42	5.60	5.39	5.74	6.82	7.03	7.75	6.84	5.56
MAX	10.1	10.6	9.68	9.36	8.75	10.7	10.5	17.5	15.1	20.6	15.7	12.2
(WY)	(1995)	(1995)	(1994)	(1996)	(1996)	(1994)	(1996)	(1996)	(1996)	(1994)	(1994)	(1994)
MIN	3.35	2.86	2.90	3.15	3.22	3.16	3.58	3.40	3.14	3.08	3.36	2.90
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2001)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1994 - 2003	
ANNUAL TOTAL	1,219.9		1,338.3			
ANNUAL MEAN	3.34		3.67		5.44	
HIGHEST ANNUAL MEAN					10.0	1996
LOWEST ANNUAL MEAN					3.21	2002
HIGHEST DAILY MEAN	4.8	Mar 10	4.7	Aug 31	29	Jul 10, 1994
LOWEST DAILY MEAN	2.8	Jan 10	3.2	Jan 9	1.4	Jan 14, 1997
ANNUAL SEVEN-DAY MINIMUM	2.9	Mar 12	3.3	Jan 8	2.7	Nov 9, 2001
MAXIMUM PEAK FLOW			6.7	May 16	a46	Jun 6, 1997
MAXIMUM PEAK STAGE			4.54	May 16	5.54	Jun 6, 1997
ANNUAL RUNOFF (AC-FT)	2,420		2,650		3,940	
10 PERCENT EXCEEDS	3.6		4.1		9.2	
50 PERCENT EXCEEDS	3.4		3.6		4.2	
90 PERCENT EXCEEDS	3.0		3.4		3.3	

e Estimated.
a From rating curve extended above 30 ft^3/s.

07103800 WEST MONUMENT CREEK AT U.S. AIR FORCE ACADEMY, CO

LOCATION.--Lat 38°58'14", long 104°54'08", in SW¼SW¼ sec.28, T.12 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on Pike National Forest, on left bank 500 ft upstream from diversion to city of Colorado Springs water-treatment plant, 2.7 mi south of U.S. Air Force Academy Chapel, and 4.4 mi upstream from mouth.

DRAINAGE AREA.--14.9 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1970 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103800

REVISED RECORDS.--WDR CO-99-1: 1997.

GAGE.--Water-stage recorder with satellite telemetry and V-notch sharp-crested weir. Elevation of gage is 7,180 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, transmountain diversions, and diversions for municipal use. Flow mostly regulated by Rampart Reservoir 4.5 mi upstream, Nichols Reservoir 3.5 mi upstream, and Northfield Reservoir 2.7 mi upstream. 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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.27	0.27	0.35	0.27	0.27	0.35	0.74	1.2	2.7	3.1	2.9	3.3
2	0.30	0.27	0.35	0.25	0.28	0.35	0.85	1.2	2.8	3.1	2.9	3.2
3	0.29	0.25	0.35	0.21	0.28	0.35	0.87	1.3	2.9	3.1	3.1	3.4
4	0.27	0.26	0.35	0.21	e0.30	0.35	0.81	1.3	3.0	3.1	3.0	3.8
5	0.27	0.27	0.35	0.21	e0.28	0.35	0.74	1.2	3.1	3.2	3.0	4.1
6	0.27	0.27	0.35	0.21	e0.27	0.35	0.73	1.2	3.1	3.2	2.9	4.3
7	0.27	0.27	0.35	0.20	e0.26	0.36	0.68	1.2	3.1	3.2	3.0	4.1
8	0.27	0.27	0.35	0.21	e0.26	0.37	0.62	1.1	3.0	3.1	3.0	3.8
9	0.27	0.27	0.35	0.20	e0.27	0.37	0.64	1.1	3.0	3.1	2.9	3.6
10	0.27	0.27	e0.35	e0.20	e0.28	0.37	0.68	1.1	3.0	3.1	2.9	3.4
11	0.27	0.27	e0.34	e0.20	e0.29	0.37	0.74	1.0	3.0	3.0	2.9	3.4
12	0.27	1.3	e0.33	0.21	e0.30	0.39	0.80	0.97	3.0	3.0	2.8	3.3
13	0.28	0.26	e0.32	0.21	0.32	0.40	0.87	0.92	3.0	2.9	2.8	3.2
14	0.33	0.18	0.31	0.21	0.32	0.41	0.89	0.90	3.1	2.9	3.0	3.2
15	0.32	0.38	0.31	0.21	0.28	0.43	0.89	0.94	3.4	2.9	3.1	3.2
16	0.32	0.40	0.31	e0.20	0.27	0.41	0.81	0.95	3.5	2.9	3.1	3.2
17	0.34	0.40	0.31	e0.20	0.27	0.41	0.80	0.84	3.1	2.8	3.4	3.2
18	0.32	0.38	0.31	e0.20	0.27	0.45	0.78	0.84	2.9	2.9	3.4	3.3
19	0.31	0.40	e0.30	e0.21	0.30	0.45	0.76	0.80	3.0	2.9	3.3	3.3
20	0.31	0.39	e0.30	e0.22	0.31	0.47	0.70	0.78	3.1	2.9	3.4	3.3
21	0.32	0.40	e0.30	0.23	0.31	0.50	0.72	0.74	3.0	2.8	3.5	3.3
22	0.36	0.40	e0.30	0.21	0.31	0.51	0.78	0.71	3.0	2.8	3.6	3.3
23	0.33	0.40	e0.29	e0.20	e0.30	0.61	0.98	0.68	3.0	2.9	3.6	3.3
24	0.31	e0.37	e0.29	e0.21	e0.28	0.67	1.1	0.67	2.9	2.8	3.6	3.3
25	0.31	e0.35	e0.29	0.21	e0.30	0.67	1.4	0.67	3.1	2.9	3.6	3.2
26	0.32	e0.35	e0.28	0.21	e0.32	0.72	1.6	0.64	3.2	3.0	3.5	3.2
27	0.35	e0.35	e0.28	0.24	0.35	0.79	1.5	0.58	3.2	2.9	3.5	3.2
28	0.32	e0.35	e0.28	0.24	0.35	0.68	1.5	0.58	3.2	2.9	3.4	3.2
29	0.31	0.35	e0.27	0.24	---	e0.64	1.4	0.57	3.2	2.9	3.4	3.2
30	0.29	0.35	0.27	0.24	---	e0.61	1.3	1.8	3.2	2.9	3.4	3.1
31	0.27	---	0.27	0.27	---	0.61	---	2.8	---	2.9	3.4	---
TOTAL	9.31	10.70	9.76	6.74	8.20	14.77	27.68	31.28	91.8	92.1	99.3	101.9
MEAN	0.30	0.36	0.31	0.22	0.29	0.48	0.92	1.01	3.06	2.97	3.20	3.40
MAX	0.36	1.3	0.35	0.27	0.35	0.79	1.6	2.8	3.5	3.2	3.6	4.3
MIN	0.27	0.18	0.27	0.20	0.26	0.35	0.62	0.57	2.7	2.8	2.8	3.1
AC-FT	18	21	19	13	16	29	55	62	182	183	197	202

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2003, BY WATER YEAR (WY)

MEAN	1.83	1.31	0.94	0.74	0.49	0.55	2.07	6.77	4.40	2.31	2.67	1.74
MAX	11.7	7.74	8.62	8.78	4.21	2.46	12.4	41.2	30.6	23.3	23.8	20.3
(WY)	(1972)	(1971)	(1971)	(1971)	(1999)	(1971)	(1971)	(1999)	(1997)	(1970)	(1970)	(1970)
MIN	0.000	0.000	0.000	0.000	0.000	0.001	0.11	0.20	0.031	0.017	0.000	0.000
(WY)	(1993)	(1993)	(1994)	(1993)	(1976)	(1991)	(1989)	(1976)	(1976)	(1993)	(1993)	(1993)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1970 - 2003	
ANNUAL TOTAL	121.06		503.54			
ANNUAL MEAN	0.33		1.38		1.93	
HIGHEST ANNUAL MEAN					13.4	1971
LOWEST ANNUAL MEAN					0.10	1993
HIGHEST DAILY MEAN	1.3	Nov 12	4.3	Sep 6	e116	Apr 30, 1999
LOWEST DAILY MEAN	0.18	Nov 14	0.18	Nov 14	a0.00	Jan 29, 1976
ANNUAL SEVEN-DAY MINIMUM	0.23	Aug 13	0.20	Jan 5	0.00	Jan 29, 1976
MAXIMUM PEAK FLOW			5.1	Aug 3	b132	Apr 30, 1999
MAXIMUM PEAK STAGE			c1.49	Aug 3	d3.41	Apr 30, 1999
ANNUAL RUNOFF (AC-FT)	240		999		1,400	
10 PERCENT EXCEEDS	0.40		3.2		4.2	
50 PERCENT EXCEEDS	0.33		0.67		0.53	
90 PERCENT EXCEEDS	0.26		0.27		0.07	

e Estimated.
a No flow many days during 1976, 1991-92.
b From rating curve extended above 105 ft^3/s.
c Maximum gage height, 1.92 ft, Dec. 27, backwater from ice.
d From floodmarks, maximum gage height, 3.88 ft, Dec. 22, 1983, backwater from ice.

07103800 WEST MONUMENT CREEK AT U.S. AIR FORCE ACADEMY, CO—Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--May 2000 to September 2003 (discontinued) (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103800

GAGE.--Tipping-bucket rain gage with satellite telemetry.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.34 inches, May 5, 2001.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 0.93 inch, July 26.

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	0.22	---	---	---	---	---	0.00	0.00	0.05	0.00	0.02	0.01
2	0.14	---	---	---	---	---	0.00	0.00	0.00	0.00	0.29	0.15
3	0.01	---	---	---	---	---	0.00	0.01	0.00	0.00	0.78	0.27
4	0.00	---	---	---	---	---	0.00	0.01	0.19	0.00	0.22	0.00
5	0.00	---	---	---	---	---	0.06	0.00	0.50	0.00	0.08	0.00
6	0.00	---	---	---	---	---	0.31	0.00	0.26	0.00	0.00	0.01
7	0.00	---	---	---	---	---	0.00	0.00	0.25	0.00	0.00	0.45
8	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	---	---	---	---	---	0.00	0.28	0.09	0.00	0.06	0.04
10	0.00	---	---	---	---	---	0.00	0.08	0.06	0.00	0.00	0.00
11	0.00	---	---	---	---	---	0.00	0.01	0.00	0.00	0.13	0.00
12	0.00	---	---	---	---	---	0.00	0.00	0.21	0.00	0.00	0.00
13	0.00	---	---	---	---	---	0.00	0.00	0.09	0.01	0.00	0.04
14	0.00	---	---	---	---	---	0.00	0.00	0.07	0.00	0.00	0.00
15	0.00	---	---	---	---	---	0.41	0.34	0.00	0.11	0.00	0.00
16	0.00	---	---	---	---	---	0.00	0.00	0.34	0.01	0.00	0.00
17	0.00	---	---	---	---	---	0.00	0.01	0.14	0.00	0.00	0.01
18	0.00	---	---	---	---	---	0.09	0.11	0.01	0.01	0.30	0.06
19	0.00	---	---	---	---	---	0.37	0.05	0.54	0.39	0.00	0.00
20	0.00	---	---	---	---	---	0.09	0.03	0.01	0.00	0.00	0.00
21	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	---	---	---	---	---	0.50	0.00	0.00	0.04	0.00	0.00
23	0.00	---	---	---	---	---	0.17	0.00	0.00	0.20	0.00	0.00
24	0.04	---	---	---	---	---	0.78	0.01	0.00	0.00	0.37	0.00
25	0.11	---	---	---	---	---	0.01	0.03	0.42	0.19	0.01	0.00
26	0.39	---	---	---	---	---	0.00	0.00	0.29	0.93	0.00	0.00
27	0.29	---	---	---	---	---	0.00	0.00	0.00	0.00	0.57	0.00
28	0.00	---	---	---	---	---	0.00	0.03	0.13	0.03	0.06	0.00
29	0.00	---	---	---	---	---	0.00	0.04	0.11	0.02	0.23	0.00
30	0.00	---	---	---	---	---	0.00	0.01	0.01	0.00	0.90	0.00
31	0.00	---	---	---	---	---	---	0.16	---	0.01	0.26	---
TOTAL	1.20	---	---	---	---	---	2.79	1.21	3.77	1.95	4.28	1.04
MAX	0.39	---	---	---	---	---	0.78	0.34	0.54	0.93	0.90	0.45

07103930 WEST MONUMENT CREEK AT MOUTH AT U.S. AIR FORCE ACADEMY, CO

LOCATION.--Lat 38°57'32", long 104°50'08", in NW¼SE¼ sec.36, T.12 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank 75 ft downstream from Union Pacific railroad bridge at U. S. Air Force Academy, 0.2 mi north of Ice Lake, and 2.0 mi west of Interstate 25.

DRAINAGE AREA.--23.5 mi^2.

PERIOD OF RECORD.--March 2000 to September 2003 (discontinued). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103930

GAGE.--Water-stage recorder and satellite telemetry. Elevation of gage is 6,380 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair except for Aug. 30-31, which are poor. Natural flow of stream affected by storage reservoirs, transmountain diversions, and diversions for municipal use. Flow partly regulated by Rampart Reservoir 9.3 mi upstream, Nichols Reservoir 8.3 mi upstream, and Northfield Reservoir 7.5 mi upstream. 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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.51	0.65	0.09	0.09	0.14	0.25	2.2	0.35	0.36	0.02	0.63
2	0.00	0.45	0.64	0.08	0.10	0.15	0.26	2.0	0.29	0.24	0.00	0.48
3	0.38	0.41	0.65	0.09	0.11	0.18	0.25	1.9	0.36	0.16	0.00	0.63
4	0.68	0.68	0.66	0.07	0.09	0.15	0.27	1.8	0.44	0.12	0.00	2.1
5	0.81	0.95	0.70	0.06	0.10	0.15	0.29	1.6	0.51	0.10	0.00	2.4
6	0.86	0.68	0.67	0.05	0.10	0.16	0.31	1.5	0.44	0.07	0.00	3.0
7	0.94	0.63	0.69	0.05	0.12	0.19	0.30	1.3	0.45	0.72	0.00	4.1
8	1.0	0.79	0.70	0.05	0.10	0.21	0.31	1.2	0.40	0.82	0.39	3.9
9	1.1	1.1	0.67	0.04	0.11	0.17	0.30	1.1	0.37	0.78	0.26	3.8
10	1.1	1.4	0.68	0.03	0.16	0.20	0.29	1.2	0.35	0.61	0.07	3.5
11	1.2	0.81	0.70	0.04	0.16	0.22	0.28	1.0	1.5	0.62	0.05	3.5
12	1.3	0.63	0.58	0.05	0.15	0.21	0.27	0.93	2.8	0.59	0.23	3.3
13	1.3	1.9	0.49	0.04	0.14	0.22	0.29	0.86	3.6	0.63	0.30	3.2
14	1.2	0.86	0.37	0.04	0.13	0.23	0.29	0.80	4.2	1.2	0.09	3.1
15	1.4	0.94	0.33	0.05	0.08	0.22	0.29	0.77	5.1	1.2	0.82	3.0
16	1.4	0.79	0.33	0.04	0.08	0.21	0.29	0.73	5.4	1.9	0.30	3.0
17	1.4	0.75	0.35	0.04	0.08	0.21	0.29	0.76	6.4	0.92	0.15	2.9
18	1.4	0.71	0.33	0.03	0.08	0.26	0.29	0.74	4.6	0.61	0.10	3.0
19	1.4	0.71	0.28	0.10	0.11	0.19	0.31	0.70	2.0	0.53	0.13	3.0
20	1.4	0.65	0.26	0.17	0.10	0.25	0.31	0.68	1.7	0.43	0.06	2.9
21	1.4	0.61	0.25	0.15	0.09	0.29	0.31	0.61	1.1	0.29	0.04	2.9
22	1.5	0.54	0.20	0.14	0.09	0.29	0.37	0.54	0.89	0.14	0.02	2.9
23	1.8	0.45	0.19	0.15	0.08	0.31	0.51	0.48	0.74	0.10	0.06	3.0
24	1.9	0.41	0.19	0.15	0.07	0.32	0.76	0.46	0.65	0.07	0.04	3.1
25	2.0	0.37	0.13	0.13	0.09	0.31	0.78	0.45	0.64	0.04	0.02	3.1
26	2.0	0.30	0.08	0.13	0.12	0.30	0.88	0.41	1.1	0.04	0.01	2.7
27	2.3	0.35	0.13	0.13	0.12	0.30	1.1	0.37	0.65	0.62	0.01	2.9
28	1.1	0.44	0.16	0.08	0.13	0.27	1.2	0.38	0.57	0.11	0.13	2.9
29	0.79	0.58	0.14	0.07	---	0.26	1.7	0.36	0.55	0.09	0.79	2.9
30	0.68	0.61	0.09	0.09	---	0.26	2.2	0.32	0.45	0.06	4.9	2.9
31	0.59	---	0.10	0.09	---	0.26	---	0.32	---	0.04	3.6	---
TOTAL	36.33	21.01	12.39	2.52	2.98	7.09	15.55	28.47	48.60	14.21	12.59	84.74
MEAN	1.17	0.70	0.40	0.081	0.11	0.23	0.52	0.92	1.62	0.46	0.41	2.82
MAX	2.3	1.9	0.70	0.17	0.16	0.32	2.2	2.2	6.4	1.9	4.9	4.1
MIN	0.00	0.30	0.08	0.03	0.07	0.14	0.25	0.32	0.29	0.04	0.00	0.48
AC-FT	72	42	25	5.0	5.9	14	31	56	96	28	25	168

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2003, BY WATER YEAR (WY)

MEAN	1.85	3.26	0.55	0.76	0.72	0.50	2.54	1.81	1.00	0.70	0.47	1.02
MAX	3.82	8.35	0.93	1.51	1.10	0.94	7.38	2.99	1.62	1.63	1.14	2.82
(WY)	(2001)	(2001)	(2001)	(2001)	(2002)	(2001)	(2000)	(2000)	(2003)	(2001)	(2001)	(2003)
MIN	0.55	0.70	0.31	0.081	0.11	0.23	0.52	0.35	0.20	0.028	0.000	0.000
(WY)	(2002)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2000 - 2003	
ANNUAL TOTAL	171.92		286.48			
ANNUAL MEAN	0.47		0.78		1.10	
HIGHEST ANNUAL MEAN					2.09	2001
LOWEST ANNUAL MEAN					0.41	2002
HIGHEST DAILY MEAN	2.3	Oct 27	6.4	Jun 17	16	Apr 14, 2000
LOWEST DAILY MEAN	0.00	Jun 30	0.00	Oct 1	a0.00	Jul 8, 2001
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 22	0.00	Aug 1	0.00	Jul 22, 2002
MAXIMUM PEAK FLOW			b193	Aug 30	b193	Aug 30, 2003
MAXIMUM PEAK STAGE			5.31	Aug 30	5.31	Aug 30, 2003
ANNUAL RUNOFF (AC-FT)	341		568		794	
10 PERCENT EXCEEDS	1.3		2.2		2.3	
50 PERCENT EXCEEDS	0.35		0.37		0.58	
90 PERCENT EXCEEDS	0.00		0.07		0.04	

a Also occurred July 9-11, 2001, and on many days during 2002 and 2003.
b From rating curve extended above 10 ft^3/s.

07103940 MONUMENT CREEK AT SOUTH BOUNDARY AT U.S. AIR FORCE ACADEMY, CO

LOCATION.--Lat 38°57'15", long 104°50'00", in NE¼NE¼ sec.1, T.13 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on the U. S. Air Force Academy, on left bank at the south boundary, 400 feet downstream from the Sante Fe Recreation Trail footbridge, 0.2 mi south of Ice Lake, and 1.5 mi west of Interstate 25.

DRAINAGE AREA.--150 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 2000 to September 2003 (discontinued). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103940

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,350 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and those above 30 ft^3/s, which are poor. Natural flow of stream affected by storage reservoirs, transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage treatment plants. 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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	6.0	e5.5	e5.0	5.7	e5.8	13	39	12	7.8	3.4	13
2	4.5	6.1	5.5	e5.2	5.7	6.0	14	42	11	6.4	3.2	8.2
3	5.2	6.2	5.1	e5.7	6.0	6.0	13	39	9.9	5.7	3.1	8.0
4	5.2	6.3	5.1	5.6	e5.8	5.6	12	37	8.4	5.5	3.6	11
5	5.2	6.3	5.0	5.8	e5.6	e5.2	11	34	12	4.9	3.2	9.0
6	5.2	5.8	e5.0	5.6	e5.3	5.3	11	28	13	4.9	2.9	8.9
7	5.3	5.7	e4.8	e5.7	e4.9	5.4	11	27	13	5.1	2.3	10
8	4.9	5.8	e4.5	e6.0	e5.0	5.1	14	26	13	4.6	2.7	12
9	4.2	6.0	e4.8	e5.3	e5.2	4.9	14	22	9.4	4.0	2.8	9.7
10	4.2	6.5	e5.1	e5.0	e5.5	5.1	13	24	8.6	3.8	2.8	8.8
11	4.3	6.3	e4.8	e5.1	e5.7	5.1	9.6	21	9.9	3.9	3.6	6.7
12	4.2	6.0	e4.5	e5.4	e6.0	4.9	8.6	21	11	3.8	4.0	6.0
13	4.9	6.7	e4.6	e5.7	6.2	4.7	10	20	13	3.6	3.5	5.6
14	4.7	6.3	e4.7	e5.6	6.3	4.9	16	18	10	3.9	3.1	6.4
15	4.6	6.5	e4.7	e5.7	6.0	5.2	22	19	9.3	3.7	3.6	6.1
16	4.8	6.1	e4.5	e5.2	5.8	5.2	28	21	9.9	4.3	3.1	6.1
17	5.6	6.0	e4.5	e5.0	5.6	5.5	27	15	15	3.6	3.0	5.6
18	5.2	5.7	e4.4	e4.9	5.5	7.2	22	16	31	3.3	3.5	6.1
19	5.3	5.8	e4.2	e5.5	5.7	5.6	23	18	35	3.6	4.3	8.0
20	5.5	5.5	e4.0	e5.4	5.5	8.4	24	18	35	4.1	3.2	6.6
21	5.3	5.4	e4.2	e4.9	5.6	10	23	16	19	3.4	2.6	6.0
22	5.2	5.5	e4.2	e4.7	5.5	9.6	18	14	11	3.7	2.6	6.5
23	5.6	5.4	e4.0	e5.0	e5.0	11	22	14	11	3.8	2.4	7.5
24	5.8	5.5	e3.8	e5.1	e4.6	12	40	13	9.4	3.8	2.4	6.9
25	5.7	5.5	e3.8	e5.4	e4.7	11	45	12	9.1	3.8	2.7	6.8
26	5.8	e5.2	e4.0	e5.5	e4.9	13	30	11	15	3.9	2.5	6.4
27	8.4	e5.0	e4.6	5.3	5.4	15	12	11	11	4.1	3.3	6.2
28	7.3	e4.8	e4.9	5.1	5.3	12	28	9.0	9.0	4.0	3.5	6.0
29	6.9	5.2	e5.0	5.5	---	9.9	60	8.3	15	3.9	6.4	6.0
30	5.8	5.5	e4.5	5.6	---	8.8	41	9.8	10	3.6	20	6.3
31	5.7	---	e4.8	5.9	---	8.7	---	20	---	3.4	86	---
TOTAL	164.1	174.6	143.1	166.4	154.0	232.1	635.2	643.1	408.9	131.9	199.3	226.4
MEAN	5.29	5.82	4.62	5.37	5.50	7.49	21.2	20.7	13.6	4.25	6.43	7.55
MAX	8.4	6.7	5.5	6.0	6.3	15	60	42	35	7.8	86	13
MIN	3.6	4.8	3.8	4.7	4.6	4.7	8.6	8.3	8.4	3.3	2.3	5.6
AC-FT	325	346	284	330	305	460	1,260	1,280	811	262	395	449

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2003, BY WATER YEAR (WY)

MEAN	7.71	8.53	7.38	8.40	8.51	10.1	26.1	26.1	11.1	7.14	6.69	6.43
MAX	9.85	11.6	10.6	11.7	12.0	14.8	51.7	39.7	13.6	11.4	9.55	8.37
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)	(2001)	(2003)	(2001)	(2000)	(2000)
MIN	5.29	5.82	4.62	5.37	5.50	7.49	8.69	7.65	4.82	3.98	2.76	3.52
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2000 - 2003	
ANNUAL TOTAL	2,162.1		3,279.1			
ANNUAL MEAN	5.92		8.98		9.95	
HIGHEST ANNUAL MEAN					14.3	2001
LOWEST ANNUAL MEAN					6.55	2002
HIGHEST DAILY MEAN	14	Jan 9	86	Aug 31	86	Aug 31, 2003
LOWEST DAILY MEAN	1.9	Aug 17	2.3	Aug 7	1.9	Aug 17, 2002
ANNUAL SEVEN-DAY MINIMUM	2.2	Aug 11	2.6	Aug 20	2.2	Aug 11, 2002
MAXIMUM PEAK FLOW			a218	Aug 31	a218	Aug 31, 2003
MAXIMUM PEAK STAGE			4.85	Aug 31	4.85	Aug 31, 2003
ANNUAL RUNOFF (AC-FT)	4,290		6,500		7,210	
10 PERCENT EXCEEDS	8.7		18		17	
50 PERCENT EXCEEDS	5.8		5.7		7.6	
90 PERCENT EXCEEDS	3.1		3.8		3.7	

e Estimated.
a From rating curve extended above 58 ft^3/s.

07103940 MONUMENT CREEK AT SOUTH BOUNDARY AT U.S. AIR FORCE ACADEMY, CO—Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--April 2000 to September 2003 (discontinued) (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103940

GAGE.--Tipping-bucket rain gage with satellite telemetry.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.83 inches, May 8, 2000.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 1.47 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	0.18	---	---	---	---	---	0.00	0.00	0.55	0.00	0.03	0.00
2	0.04	---	---	---	---	---	0.00	0.00	0.00	0.00	0.12	0.12
3	0.05	---	---	---	---	---	0.00	0.00	0.00	0.00	0.13	0.45
4	0.00	---	---	---	---	---	0.00	0.00	0.17	0.00	0.18	0.00
5	0.00	---	---	---	---	---	0.04	0.00	0.46	0.00	0.02	0.01
6	0.00	---	---	---	---	---	0.16	0.00	0.10	0.00	0.00	0.04
7	0.00	---	---	---	---	---	0.00	0.00	0.15	0.00	0.00	0.29
8	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.01	0.00
9	0.00	---	---	---	---	---	0.00	0.21	0.10	0.00	0.09	0.02
10	0.00	---	---	---	---	---	0.00	0.05	0.05	0.00	0.04	0.00
11	0.00	---	---	---	---	---	0.00	0.00	0.01	0.00	0.11	0.00
12	0.00	---	---	---	---	---	0.00	0.00	0.05	0.03	0.00	0.00
13	0.00	---	---	---	---	---	0.00	0.00	0.01	0.00	0.00	0.04
14	0.00	---	---	---	---	---	0.00	0.00	0.04	0.00	0.00	0.00
15	0.00	---	---	---	---	---	0.07	0.19	0.00	0.00	0.00	0.00
16	0.00	---	---	---	---	---	0.00	0.00	0.03	0.00	0.00	0.00
17	0.00	---	---	---	---	---	0.00	0.01	1.18	0.00	0.00	0.00
18	0.00	---	---	---	---	---	0.01	0.11	0.00	0.00	0.11	0.00
19	0.00	---	---	---	---	---	0.11	0.00	0.61	0.31	0.01	0.00
20	0.00	---	---	---	---	---	0.00	0.00	0.01	0.00	0.00	0.00
21	0.00	---	---	---	---	---	0.00	0.01	0.00	0.00	0.00	0.00
22	0.00	---	---	---	---	---	0.67	0.08	0.00	0.00	0.00	0.00
23	0.00	---	---	---	---	---	0.47	0.07	0.00	0.00	0.00	0.00
24	0.02	---	---	---	---	---	0.37	0.00	0.00	0.00	0.16	0.00
25	0.05	---	---	---	---	---	0.00	0.02	0.44	0.02	0.00	0.00
26	0.49	---	---	---	---	---	0.00	0.00	0.59	0.20	0.00	0.00
27	0.18	---	---	---	---	---	0.00	0.00	0.00	0.06	0.17	0.00
28	0.00	---	---	---	---	---	0.00	0.00	0.08	0.08	0.01	0.00
29	0.01	---	---	---	---	---	0.00	0.00	0.02	0.00	0.63	0.00
30	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	1.47	0.00
31	0.00	---	---	---	---	---	---	0.03	---	0.03	0.08	---
TOTAL	1.02	---	---	---	---	---	1.90	0.78	4.65	0.73	3.37	0.97
MAX	0.49	---	---	---	---	---	0.67	0.21	1.18	0.31	1.47	0.45

385854104470100 KETTLE CREEK ABOVE OLD RANCH ROAD NEAR COLORADO SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°58'58", long 104°47'03", in NE¼NW¼ sec.28, T.12 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on left bank 250 ft upstream from bridge on Old Ranch Road, 1.5 mi east of Interstate 25, 4.0 mi upstream from the mouth, 5.1 mi northeast of Pulpit Rock, and 10.7 mi northeast of courthouse in Colorado Springs. Elevation of gage is 6,670 ft above NGVD of 1929, from topographic map.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--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=385854104470100

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Suspended sediment concentration mg/L (80154)
AUG 27...	1945	3.9	7.1	7.1	308	18.0	<0.015	0.62	<0.02	5.36	E100000	E86000	21,000

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Suspended sediment load, tons/d (80155)
AUG 27...	221

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

07103960 KETTLE CREEK ABOVE U.S. AIR FORCE ACADEMY, CO

LOCATION.--Lat 38°58'34", long 104°47'55", in NW¼SE¼ sec.29, T.12 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on right bank 70 ft downstream from State Highway 83, 0.5 mi upstream from flood-retention dam, 0.6 mi east of Interstate 25, 2.7 mi upstream from mouth, and 5.4 mi southeast of U.S. Air Force Academy Chapel.

DRAINAGE AREA.--16.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 2000 to September 2003 (seasonal records only). October 2003 converted to crest-stage partial-record station. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103960

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,620 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, those above 5.0 ft^3/s, and those below 0.30 ft^3/s, which are poor. Natural flow of stream affected by erosion-control and livestock-watering reservoirs and ground-water withdrawals.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 202 ft^3/s, July 5, 2002, from rating curve extended above 5.0 ft^3/s, gage height, 5.52 ft, from floodmarks; no flow on many days during 2002 and 2003.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum discharge, 123 ft^3/s, Aug. 30, gage height, 5.28 ft, from rating curve extended above 5.0 ft^3/s on the basis of step-backwater analysis of flow; no flow on many days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.08	e0.09	---	---	---	---	1.1	0.47	1.5	0.13	0.08	3.1
2	0.12	0.12	---	---	---	---	0.93	0.53	0.86	0.11	0.04	3.0
3	0.09	0.10	---	---	---	---	0.95	0.45	0.37	0.11	0.06	e2.0
4	0.11	0.13	---	---	---	---	1.0	0.52	1.1	0.03	0.08	e1.0
5	0.12	0.12	---	---	---	---	1.00	0.73	1.8	0.02	0.10	1.4
6	0.10	0.12	---	---	---	---	0.52	0.65	1.5	0.02	0.06	1.6
7	0.09	0.10	---	---	---	---	0.40	0.55	1.2	0.02	0.01	1.7
8	0.09	0.07	---	---	---	---	0.45	0.51	0.84	0.01	0.00	1.4
9	0.12	0.06	---	---	---	---	0.47	0.62	0.81	0.00	0.57	0.98
10	0.12	0.03	---	---	---	---	0.45	e0.50	0.59	0.00	0.46	0.68
11	0.09	0.02	---	---	---	---	0.46	e0.45	0.64	0.00	0.25	0.44
12	0.13	0.02	---	---	---	---	0.44	0.42	0.65	0.00	0.16	0.51
13	0.12	0.08	---	---	---	---	0.42	0.55	0.48	0.00	0.57	0.34
14	0.08	0.13	---	---	---	---	0.42	0.35	0.27	0.00	0.03	0.23
15	0.08	0.10	---	---	---	---	0.49	0.43	0.21	0.00	0.01	0.21
16	0.10	0.05	---	---	---	---	0.33	0.46	0.36	0.00	0.00	0.20
17	0.12	0.06	---	---	---	---	0.48	0.45	0.31	0.00	0.00	0.18
18	0.12	0.03	---	---	---	---	0.43	0.44	0.13	0.00	0.20	0.16
19	0.12	0.02	---	---	---	---	0.53	0.66	1.3	0.14	0.01	0.18
20	0.13	0.03	---	---	---	---	0.36	0.72	0.63	0.05	0.01	0.20
21	0.14	0.06	---	---	---	---	0.45	0.40	0.24	0.01	0.01	0.18
22	0.14	0.06	---	---	---	---	1.4	0.33	0.19	0.00	0.04	0.33
23	0.16	0.14	---	---	---	---	1.1	0.25	0.20	0.00	0.00	0.39
24	0.13	0.14	---	---	---	---	2.9	0.21	0.17	0.00	0.05	0.30
25	0.12	0.09	---	---	---	---	1.5	0.19	0.35	0.00	0.13	0.24
26	0.24	0.04	---	---	---	---	0.68	0.17	1.6	0.02	0.08	0.20
27	0.19	e0.03	---	---	---	---	0.55	0.15	0.54	0.11	0.56	0.15
28	0.09	e0.03	---	---	---	---	0.48	0.18	0.34	0.11	0.18	0.20
29	0.09	0.09	---	---	---	---	0.52	0.24	0.26	0.07	7.2	0.25
30	0.10	0.09	---	---	---	---	0.50	0.16	0.14	0.04	8.8	0.14
31	0.08	---	---	---	---	---	---	0.09	---	0.03	6.0	---
TOTAL	3.61	2.25	---	---	---	---	21.71	12.83	19.58	1.03	25.75	21.89
MEAN	0.12	0.075	---	---	---	---	0.72	0.41	0.65	0.033	0.83	0.73
MAX	0.24	0.14	---	---	---	---	2.9	0.73	1.8	0.14	8.8	3.1
MIN	0.08	0.02	---	---	---	---	0.33	0.09	0.13	0.00	0.00	0.14
AC-FT	7.2	4.5	---	---	---	---	43	25	39	2.0	51	43

e Estimated.

07103960 KETTLE CREEK ABOVE U.S. AIR FORCE ACADEMY, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June to September 2003. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103960

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

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/100 mL (31625)	Suspended sediment concentration mg/L (80154)
JUN 24...	1645	0.07	6.0	7.7	607	23.5	0.025	0.08	<0.02	0.04	E60	E70	25

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

Date	Suspended sediment load, tons/d (80155)
JUN 24...	0.00

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

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/100 mL (31625)	Suspended sediment concentration mg/L (80154)
AUG 27...	2020	3.1	7.1	7.7	355	18.0	0.032	0.40	<0.02	3.94	E130000	E140000	13,800

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Suspended sediment load, tons/d (80155)
AUG 27...	116

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

07103960 KETTLE CREEK ABOVE U.S. AIR FORCE ACADEMY, CO—Continued

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					
05...	0750	0.06	--	646	0.5
DEC					
02...	1645	0.35	--	514	0.5
MAR					
24...	1120	1.4	--	505	6.0
APR					
09...	1435	0.58	--	533	19.5
MAY					
12...	1115	0.48	--	540	16.5
28...	1225	0.25	--	573	25.5
JUN					
05...	0845	3.4	285	--	10.5
JUL					
31...	1145	0.04	633	--	--
AUG					
11...	1130	0.27	519	--	--
SEP					
04...	1350	0.99	484	--	--

07103960 KETTLE CREEK ABOVE U.S. AIR FORCE ACADEMY, CO—Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--April 2000 to September 2003 (discontinued) (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103960

GAGE.--Tipping-bucket rain gage with satellite telemetry.

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

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 2.03 inches, Aug. 30, 2003.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 2.03 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	0.24	---	---	---	---	---	0.00	0.00	0.49	0.00	0.01	0.00
2	0.03	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.04
3	0.02	---	---	---	---	---	0.00	0.00	0.00	0.00	0.15	---
4	0.04	---	---	---	---	---	0.00	0.08	0.65	0.00	0.06	0.00
5	0.00	---	---	---	---	---	0.02	0.00	0.47	0.00	0.10	0.00
6	0.00	---	---	---	---	---	0.28	0.02	0.06	0.00	0.00	0.10
7	0.00	---	---	---	---	---	0.00	0.00	0.22	0.00	0.02	0.39
8	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	---	---	---	---	---	0.00	0.17	0.09	0.00	0.61	0.02
10	0.00	---	---	---	---	---	0.00	0.09	0.14	0.00	0.09	0.00
11	0.00	---	---	---	---	---	0.00	0.00	0.01	0.00	0.13	0.00
12	0.00	---	---	---	---	---	0.00	0.00	0.08	0.00	0.00	0.00
13	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.03
14	0.00	---	---	---	---	---	0.00	0.00	0.02	0.00	0.00	0.00
15	0.00	---	---	---	---	---	0.18	0.12	0.00	0.00	0.00	0.00
16	0.00	---	---	---	---	---	0.00	0.00	0.16	0.03	0.00	0.00
17	0.00	---	---	---	---	---	0.00	0.00	0.47	0.00	0.00	0.00
18	0.00	---	---	---	---	---	0.02	0.06	0.02	0.03	0.28	0.00
19	0.00	---	---	---	---	---	0.21	0.00	0.75	0.48	0.00	0.00
20	0.00	---	---	---	---	---	0.05	0.00	0.00	0.00	0.00	0.00
21	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	---	---	---	---	---	0.72	0.00	0.00	0.00	0.00	0.00
23	0.00	---	---	---	---	---	0.60	0.09	0.00	0.03	0.00	0.01
24	0.03	---	---	---	---	---	0.55	0.00	0.00	0.01	0.13	0.00
25	0.01	---	---	---	---	---	0.00	0.02	0.52	0.03	0.01	0.00
26	0.47	---	---	---	---	---	0.00	0.00	0.54	0.24	0.00	0.00
27	0.13	---	---	---	---	---	0.00	0.00	0.00	0.09	0.45	0.00
28	0.00	---	---	---	---	---	0.00	0.00	0.04	0.32	0.02	0.00
29	0.00	---	---	---	---	---	0.00	0.00	0.01	0.00	1.13	0.00
30	0.00	---	---	---	---	---	0.00	0.04	0.00	0.00	2.03	0.00
31	0.00	---	---	---	---	---	---	0.02	---	0.02	0.05	---
TOTAL	0.97	---	---	---	---	---	2.63	0.71	4.74	1.28	5.27	---
MAX	0.47	---	---	---	---	---	0.72	0.17	0.75	0.48	2.03	---

385750104475001 PINE CREEK ABOVE HIGHWAY 83 AT COLORADO SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°57'50", long 104°47'50", in SE¼NE¼ sec.32, T.12 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on right bank 0.2 mi upstream from State Highway 83 at Colorado Springs, 0.3 mi east of Interstate 25, 3.4 mi southeast of Falcon Stadium at U.S. Air Force Academy, and 3.6 mi northeast of Pulpit Rock. Elevation of gage is 6,540 ft above NGVD of 1929, from topographic map.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--June to September 2003. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=385750104475001

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

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Suspended sediment concentration mg/L (80154)
JUN 24...	1330	0.87	7.7	8.4	539	18.0	0.110	1.23	0.07	0.10	2,300	3,300	8

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

Date	Suspended sediment load, tons/d (80155)
JUN 24...	0.02

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Suspended sediment concentration mg/L (80154)
JUN 17...	1810	19	7.0	7.7	179	15.0	0.245	0.79	0.10	0.77	7,400	10,000	1,950

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Suspended sediment load, tons/d (80155)
JUN 17...	99

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO

LOCATION.--Lat 38°56'02", long 104°49'00", in SW¼NE¼ sec.7, T.13 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on right bank 0.1 mi upstream from Woodmen Road at Colorado Springs, 0.2 mi west of Interstate 25, and 0.5 mi upstream from Cottonwood Creek.

DRAINAGE AREA.--181 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1996 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103970

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 6,270 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	9.0	e7.0	6.9	8.2	12	16	44	42	11	5.6	22
2	10	11	7.2	e7.0	8.3	13	18	45	17	9.4	5.4	16
3	7.2	9.4	7.0	e7.4	e8.5	11	16	42	13	8.9	7.8	38
4	6.9	8.2	6.9	6.8	e7.8	8.8	15	41	25	9.1	17	18
5	6.9	7.6	6.8	6.7	e7.5	8.8	18	39	34	8.5	7.4	13
6	7.0	7.3	e7.3	6.3	e7.0	8.1	20	33	19	8.4	5.6	16
7	7.3	7.6	e7.5	6.8	e6.5	8.6	14	33	22	8.2	4.4	23
8	7.2	7.8	e7.2	7.2	e6.8	8.2	16	32	17	7.3	4.7	19
9	6.5	7.8	e7.4	6.8	e7.0	8.0	17	30	15	6.3	26	14
10	6.6	8.4	e7.6	e6.5	e7.8	8.0	16	35	13	5.6	5.2	12
11	6.9	9.0	e7.2	e6.8	e8.3	8.1	13	28	14	5.5	7.9	9.7
12	7.1	8.6	e6.8	e7.0	e8.8	8.1	11	26	17	5.5	7.3	9.9
13	8.8	9.8	e7.3	e7.5	8.9	7.9	13	24	19	5.1	6.1	10
14	8.8	9.5	e7.5	7.4	8.5	8.2	17	23	16	5.2	4.8	11
15	8.6	9.7	e7.7	e7.5	7.6	8.7	25	25	14	5.2	5.4	10
16	8.7	8.9	e7.5	e6.8	7.3	8.9	31	29	15	7.8	4.7	9.7
17	9.6	8.5	7.4	e6.7	6.9	12	29	23	64	5.8	4.3	8.5
18	8.6	8.1	e7.2	e6.5	6.7	20	26	24	39	5.0	7.7	9.3
19	8.4	8.0	e6.7	e8.0	11	13	27	24	70	13	6.8	11
20	8.7	7.6	e6.4	e7.8	7.5	28	27	24	52	9.2	4.6	9.7
21	8.5	7.6	e7.0	e7.2	7.1	24	27	21	27	5.3	3.8	9.1
22	8.7	7.6	e6.8	e6.8	7.1	19	53	18	16	5.4	3.8	10
23	9.2	7.2	e7.0	e7.3	6.7	21	58	21	14	5.6	3.7	11
24	9.6	6.9	e6.2	e7.4	5.8	29	71	16	13	5.6	8.3	10
25	10	7.2	e6.0	e7.6	e6.5	21	51	15	15	6.0	4.2	11
26	15	e6.7	e6.2	e7.8	e7.5	16	39	15	52	6.4	3.5	14
27	18	e6.5	e7.0	7.8	8.0	17	19	14	17	15	18	10
28	10	e6.3	e7.8	7.2	9.7	14	32	12	13	16	7.2	9.8
29	9.8	e7.0	7.6	7.6	---	13	58	11	20	8.1	32	10
30	8.4	6.8	6.5	7.8	---	12	47	11	14	5.8	79	11
31	8.5	---	e6.7	8.2	---	12	---	26	---	5.3	157	---
TOTAL	273.1	241.6	218.4	223.1	215.3	415.4	840	804	738	234.5	469.2	395.7
MEAN	8.81	8.05	7.05	7.20	7.69	13.4	28.0	25.9	24.6	7.56	15.1	13.2
MAX	18	11	7.8	8.2	11	29	71	45	70	16	157	38
MIN	6.5	6.3	6.0	6.3	5.8	7.9	11	11	13	5.0	3.5	8.5
AC-FT	542	479	433	443	427	824	1,670	1,590	1,460	465	931	785

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2003, BY WATER YEAR (WY)

MEAN	18.0	17.8	15.4	15.6	15.7	19.8	53.4	98.2	55.4	25.1	32.3	16.1
MAX	30.3	30.1	22.1	23.2	22.1	35.5	124	383	152	66.0	100	29.3
(WY)	(2000)	(1998)	(2001)	(2000)	(2000)	(1998)	(1999)	(1999)	(1999)	(1999)	(1999)	(1999)
MIN	8.81	8.05	7.05	7.20	7.69	12.3	12.5	13.0	8.09	7.56	5.22	7.11
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(1997)	(2002)	(2002)	(2002)	(2003)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1997 - 2003	
ANNUAL TOTAL	3,723.1		5,068.3			
ANNUAL MEAN	10.2		13.9		32.0	
HIGHEST ANNUAL MEAN					80.2	1999
LOWEST ANNUAL MEAN					11.2	2002
HIGHEST DAILY MEAN	63	Jul 5	157	Aug 31	2,000	Apr 30, 1999
LOWEST DAILY MEAN	4.1	Aug 1	3.5	Aug 26	3.5	Aug 26, 2003
ANNUAL SEVEN-DAY MINIMUM	4.4	Aug 9	4.6	Aug 20	4.4	Aug 9, 2002
MAXIMUM PEAK FLOW			963	Aug 30	a3,580	Apr 30, 1999
MAXIMUM PEAK STAGE			6.74	Aug 30	b10.98	Apr 30, 1999
ANNUAL RUNOFF (AC-FT)	7,380		10,050		23,170	
10 PERCENT EXCEEDS	15		27		58	
50 PERCENT EXCEEDS	9.0		8.6		17	
90 PERCENT EXCEEDS	5.0		6.3		8.1	

e Estimated.
a From rating curve extended above 636 ft^3/s.
b From floodmark.

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1997 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103970

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT: May to September 1997 (seasonal peaks only), April 1998 to current year (seasonal records only).

INSTRUMENTATION.--Pumping sediment sampler with satellite telemetry.

REMARKS.--Water-quality data collected July 25 were obtained to determine base-flow constituent concentrations.

EXTREMES FOR PERIOD OF RECORD.--
SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 3,580 mg/L, Aug. 19, 1998; minimum daily mean, 2 mg/L, June 9, 2000.
SUSPENDED-SEDIMENT DISCHARGE (seasonal only): Maximum daily, 49,100 tons (estimated), Apr. 30, 1999; minimum daily, 0.08 ton, June 9, 2000, Sept. 30, 2002, Aug. 21, 2003.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 3,350 mg/L, Aug. 31; minimum daily mean, 7 mg/L, Sept. 29.
SUSPENDED-SEDIMENT DISCHARGE (seasonal only): Maximum daily, 2,430 tons, Aug. 31; minimum daily, 0.08 ton, Aug. 21.

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

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	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)
NOV													
06...	1455	6.9	10.3	8.4	470	6.0	47.6	8.72	1.00	57.0	<0.015	1.01	0.27
DEC													
03...	0900	6.9	11.4	7.9	468	1.5	48.3	8.40	1.00	58.0	<0.015	1.38	0.41
FEB													
13...	1345	9.1	11.3	8.3	495	2.5	42	8.4	1.0	56.8	0.023	2.82	0.57
APR													
28...	1125	29	9.0	8.1	372	11.5	41	6.2	1.23	52.7	0.055	0.618	0.37
JUL													
22...	1050	6.3	6.9	8.2	438	22.0	47.9	7.44	1.19	48.0	0.020	0.764	0.27

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

Date	Phosphorus, water, unfltrd mg/L (00665)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Arsenic water, fltrd, ug/L (01000)	Arsenic water unfltrd ug/L (01002)	Boron, water, fltrd, ug/L (01020)	Boron, water, unfltrd recoverable, ug/L (01022)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, fltrd, ug/L (01030)	Chromium, water, unfltrd recoverable, ug/L (01034)
NOV													
06...	0.346	<2.0	--	E9	E17	1.4	1.3	121	129	<0.10	0.11	<1.0	1.3
DEC													
03...	0.443	<2.0	--	34	32	1.1	1.3	115	111	<0.10	<0.10	1.7	1.5
FEB													
13...	0.636	--	--	E12	12	1.09	<2	117	111	0.043	<0.035	<0.8	<0.8
APR													
28...	0.551	--	E19	--	E19	--	E2	56	62	--	--	--	--
JUL													
22...	0.402	--	180	--	310	--	E2	73	84	--	--	--	--

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

Date	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recoverable, ug/L (01042)	Cyanide water unfltrd mg/L (00720)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recoverable, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recoverable, ug/L (01051)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, unfltrd recoverable, ug/L (01055)	Mercury water, fltrd, ug/L (71890)	Mercury water, unfltrd recoverable, ug/L (71900)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd recoverable, ug/L (01067)
NOV													
06...	1.8	2.8	<0.01	19.0	293	0.24	0.53	42	49	<0.018	<0.018	3.4	4.2
DEC													
03...	2.3	2.7	<0.01	29.0	230	E.26	0.33	47	47	<0.018	<0.018	3.0	2.9
FEB													
13...	2.20	2.99	<0.009	22	411	0.21	1.08	31.7	51.4	<0.018	<0.018	3.55	4.67
APR													
28...	1.06	3.46	--	--	--	--	3.12	72.2	137	--	--	--	2.63
JUL													
22...	1.12	3.16	--	--	--	--	5.74	38.6	78.6	--	--	--	3.33

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO—Continued

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

Date	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd recoverable, ug/L (01077)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recoverable, ug/L (01092)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
NOV 06...	2.4	E2.2	0.09	<0.04	E7.0	E9.0	3	0.06
DEC 03...	2.0	1.7	<0.04	<0.04	E9.0	<9.0	4	0.07
FEB 13...	1.12	1.33	<0.20	<0.16	11.1	15.1	36	0.88
APR 28...	0.96	1.11	--	--	5.1	16.1	92	7.2
JUL 22...	1.20	1.21	--	--	3.4	22.3	64	1.1

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

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	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)
JUN 05...	1230	68	8.4	7.3	182	11.0	19.7	2.97	0.39	19.0	0.183	0.589	0.15
JUL 25...	1130	6.3	7.9	8.5	452	25.0	--	--	--	--	--	--	--
SEP 03...	1745	61	7.7	8.0	227	16.5	24.8	3.38	0.39	29.2	0.080	0.680	0.09

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Phosphorus, water, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Arsenic water unfltrd ug/L (01002)	Boron, water, fltrd, ug/L (01020)	Boron, water, unfltrd recoverable, ug/L (01022)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recoverable, ug/L (01042)	Lead, water, unfltrd recoverable, ug/L (01051)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, unfltrd recoverable, ug/L (01055)	Nickel, water, unfltrd recoverable, ug/L (01067)	Selenium, water, fltrd, ug/L (01145)
JUN 05...	0.524	E1800	E3400	E2	26	35	1.75	12.4	25.3	18.5	210	5.82	E.37
JUL 25...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	0.641	11,000	8,800	3	31	35	1.83	16.6	30.8	16.1	322	8.38	0.74

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Selenium, water, unfltrd ug/L (01147)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recoverable, ug/L (01092)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	9H-Fluorene, water, unfltrd ug/L (34381)	Acenaphthene, water, unfltrd ug/L (34205)	Acenaphthylene, water, unfltrd ug/L (34200)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Anthracene, water, unfltrd ug/L (34220)	Atrazine, water, fltrd, ug/L (39632)
JUN 05...	1.67	3.6	69.5	<0.006	<0.0060	E.2	E.09	E.2	<0.006	<0.004	<0.0046	E.2	0.0140
JUL 25...	--	--	--	<0.006	<0.006	E.0206	E.0187	<2	<0.006	<0.004	<0.0046	<2	<0.007
SEP 03...	1.92	1.7	93.8	<0.006	<0.006	<2	<2	<2	<0.006	<0.004	<0.0046	<2	<0.007

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO—Continued

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Azinphos-methyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Benzo[a]anthracene, water, unfltrd ug/L (34526)	Benzo[a]pyrene, water, unfltrd ug/L (34247)	Benzo[b]fluoranthene water unfltrd ug/L (34230)	Benzo[g,h,i]perylene, water, unfltrd ug/L (34521)	Benzo[k]fluoranthene water unfltrd ug/L (34242)	Butylate, water, fltrd, ug/L (04028)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbofuran, water, fltrd 0.7u GF ug/L (82674)	Chlorpyrifos water, fltrd, ug/L (38933)	Chrysene, water, unfltrd ug/L (34320)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)
JUN													
05...	<0.0500	<0.0100	E.3	E.4	E.5	E.3	E.3	<0.002	E.430	E.0083	<0.0100	E.3	<0.0060
JUL													
25...	<0.05	<0.010	<2	<1	<2	<3	<2	<0.002	E.009	<0.020	<0.005	<3	<0.006
SEP													
03...	<0.05	<0.010	<2	E.0321	<2	<3	<2	<0.002	E.099	<0.020	<0.005	E.0237	<0.006

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Cyanazine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon, water, fltrd, ug/L (39572)	Dibenzo[a,h]anthracene, wat unf ug/L (34556)	Dieldrin, water, fltrd, ug/L (39381)	Disulfoton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethalfluralin, water, fltrd 0.7u GF ug/L (82663)	Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Desulfinyl-fipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)
JUN													
05...	<0.0180	<0.0030	<0.0040	0.120	E.2	<0.0048	<0.0210	<0.0020	<0.0090	<0.0050	<0.0090	<0.0050	<0.0050
JUL													
25...	<0.018	<0.0030	<0.004	<0.005	<3	<0.0048	<0.021	<0.0020	<0.009	<0.005	<0.009	<0.005	<0.005
SEP													
03...	<0.018	<0.0030	<0.004	0.0324	<3	<0.0048	<0.021	<0.0020	<0.009	<0.005	<0.009	<0.005	<0.005

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Fipronil, water, fltrd, ug/L (62166)	Fluoranthene water unfltrd ug/L (34376)	Fonofos water, fltrd, ug/L (04095)	Indeno[1,2,3-cd]pyrene, water, unfltrd ug/L (34403)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Napropamide, water, fltrd 0.7u GF ug/L (82684)	Nitrobenzene water unfltrd ug/L (34447)
JUN													
05...	<0.0070	E.8	<0.0027	E.3	<0.0040	<0.0350	<0.0300	<0.0060	<0.0130	<0.0060	<0.0016	<0.0070	<2
JUL													
25...	<0.007	E.0369	<0.0027	<3	<0.0040	<0.035	<0.027	<0.006	<0.013	<0.006	<0.0016	<0.007	<2
SEP													
03...	<0.007	E.1020	<0.0027	<3	<0.0040	<0.035	<0.027	<0.006	<0.013	<0.006	<0.0016	<0.007	<2

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	p,p'-DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)	Pebulate, water, fltrd 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phenanthrene, water, unfltrd ug/L (34461)	Phorate water fltrd 0.7u GF ug/L (82664)	Prometon, water, fltrd, ug/L (04037)	Pronamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Pyrene, water, unfltrd ug/L (34469)	Simazine, water, fltrd, ug/L (04035)
JUN													
05...	<0.0025	<0.010	<0.004	<0.022	E.3	<0.0110	E.0108	<0.0041	<0.0100	<0.0110	<0.0230	E.7	<0.005
JUL													
25...	<0.0025	<0.010	<0.004	<0.022	E.0577	<0.011	0.0164	<0.0041	<0.010	<0.011	<0.023	E.0207	<0.005
SEP													
03...	<0.0025	<0.010	<0.004	<0.022	E.0410	<0.011	E.0103	<0.0041	<0.010	<0.011	<0.023	E.0784	<0.005

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO—Continued

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Tebu-thiuron water fltrd 0.7u GF ug/L (82670)	Terba-cil, water, fltrd 0.7u GF ug/L (82665)	Terbu-fos, water, fltrd 0.7u GF ug/L (82675)	Thio-bencarb water fltrd 0.7u GF ug/L (82681)	Tri-allate, water, fltrd 0.7u GF ug/L (82678)	Tri-flur-alin, water, fltrd 0.7u GF ug/L (82661)	Naphth-alene, water, unfltrd ug/L (34696)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment load, tons/d (80155)
JUN									
05...	<0.0160	<0.0340	<0.0170	<0.0048	<0.0023	<0.0090	<2	2,160	397
JUL									
25...	<0.016	<0.034	<0.017	<0.0048	<0.0023	<0.009	E.0564	--	--
SEP									
03...	<0.016	<0.034	<0.017	<0.0048	<0.0023	<0.009	<2	1,440	237

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

WATER-QUALITY DATA DURING MICROBIOLOGICAL SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instan-taneous dis-charge, cfs (00061)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coli-form, M-FC 0.7u MF col/ 100 mL (31625)
APR						
09...	1515	17	467	14.5	E2	E1
MAY						
12...	1300	25	316	15.5	E3	E4
28...	1515	11	404	26.0	E6	E7
JUN						
11...	0910	15	394	15.0	E170	E170
25...	1010	12	376	16.5	88	71
JUL						
08...	1245	8.3	408	24.5	78	83
AUG						
06...	0820	6.3	479	18.0	140	>120
21...	1300	3.7	478	23.5	59	67
SEP						
18...	1150	10	389	13.0	41	54

> -- Actual value is known to be greater than the value shown.
E -- Estimated laboratory analysis value.

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO—Continued

MISCELLANEOUS FIELD AND SUSPENDED-SEDIMENT DISCHARGE DATA, 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)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
OCT							
07...	1545	7.6	--	455	14.5	27	0.55
18...	1300	9.1	--	451	10.0	23	0.57
NOV							
04...	1300	9.1	--	473	4.5	6	0.15
06...	1455	6.9	--	470	6.0	3	0.06
13...	0805	9.9	--	470	2.0	--	--
DEC							
03...	0900	6.9	--	468	1.5	4	0.07
03...	1150	7.6	--	470	2.0	--	--
JAN							
02...	1100	6.3	--	578	0.0	40	0.68
FEB							
13...	1345	9.1	--	495	2.5	36	0.88
MAR							
24...	0915	18	--	486	5.0	--	--
APR							
01...	1800	17	--	506	14.0	34	1.6
14...	1545	18	--	412	15.0	19	0.92
24...	1215	82	279	--	9.5	1,350	299
28...	1125	29	--	372	11.5	92	7.2
30...	1300	46	--	258	12.5	66	8.2
MAY							
12...	1245	24	--	319	15.5	155	10
JUN							
02...	1445	15	380	--	23.0	89	3.6
04...	1830	52	227	--	12.0	1,420	199
05...	1230	68	--	182	11.0	2,160	397
12...	1215	16	384	--	18.0	31	1.3
19...	0830	39	323	--	13.5	535	56
26...	1200	28	--	360	19.0	227	17
JUL							
21...	1130	6.3	--	437	24.5	12	0.20
22...	1050	6.3	--	438	22.0	64	1.1
25...	1130	6.3	--	452	25.0	--	--
31...	1015	5.7	--	474	20.0	53	0.82
AUG							
07...	1345	4.0	--	464	27.0	--	--
21...	0815	4.2	--	495	16.0	4	0.05
27...	1945	70	--	232	20.5	1,580	299
28...	1100	6.9	--	449	19.0	24	0.45
SEP							
03...	1745	61	--	227	16.5	1,440	237
11...	1330	11	400	--	--	--	--

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
	OCTOBER			NOVEMBER			DECEMBER		
1	7.6	139	15	9.0	---	---	e7.0	---	---
2	10	334	16	11	---	---	7.2	---	---
3	7.2	34	0.65	9.4	---	---	7.0	---	---
4	6.9	20	0.37	8.2	---	---	6.9	---	---
5	6.9	20	0.37	7.6	---	---	6.8	---	---
6	7.0	---	e0.39	7.3	---	---	e7.3	---	---
7	7.3	26	0.51	7.6	---	---	e7.5	---	---
8	7.2	33	0.64	7.8	---	---	e7.2	---	---
9	6.5	---	e0.49	7.8	---	---	e7.4	---	---
10	6.6	22	0.39	8.4	---	---	e7.6	---	---
11	6.9	16	0.30	9.0	---	---	e7.2	---	---
12	7.1	14	0.27	8.6	---	---	e6.8	---	---
13	8.8	---	e0.39	9.8	---	---	e7.3	---	---
14	8.8	---	e0.46	9.5	---	---	e7.5	---	---
15	8.6	22	0.51	9.7	---	---	e7.7	---	---
16	8.7	16	0.37	8.9	---	---	e7.5	---	---
17	9.6	---	e0.43	8.5	---	---	7.4	---	---
18	8.6	23	0.53	8.1	---	---	e7.2	---	---
19	8.4	---	e0.50	8.0	---	---	e6.7	---	---
20	8.7	21	0.48	7.6	---	---	e6.4	---	---
21	8.5	16	0.36	7.6	---	---	e7.0	---	---
22	8.7	15	0.35	7.6	---	---	e6.8	---	---
23	9.2	19	0.48	7.2	---	---	e7.0	---	---
24	9.6	---	e0.55	6.9	---	---	e6.2	---	---
25	10	24	0.65	7.2	---	---	e6.0	---	---
26	15	314	41	e6.7	---	---	e6.2	---	---
27	18	413	33	e6.5	---	---	e7.0	---	---
28	10	32	0.91	e6.3	---	---	e7.8	---	---
29	9.8	38	1.1	e7.0	---	---	7.6	---	---
30	8.4	---	e0.40	6.8	---	---	6.5	---	---
31	8.5	---	e0.35	---	---	---	e6.7	---	---
TOTAL	273.1	---	118.20	241.6	---	---	218.4	---	---
	JANUARY			FEBRUARY			MARCH		
1	6.9	---	---	8.2	---	---	12	---	---
2	e7.0	---	---	8.3	---	---	13	---	---
3	e7.4	---	---	e8.5	---	---	11	---	---
4	6.8	---	---	e7.8	---	---	8.8	---	---
5	6.7	---	---	e7.5	---	---	8.8	---	---
6	6.3	---	---	e7.0	---	---	8.1	---	---
7	6.8	---	---	e6.5	---	---	8.6	---	---
8	7.2	---	---	e6.8	---	---	8.2	---	---
9	6.8	---	---	e7.0	---	---	8.0	---	---
10	e6.5	---	---	e7.8	---	---	8.0	---	---
11	e6.8	---	---	e8.3	---	---	8.1	---	---
12	e7.0	---	---	e8.8	---	---	8.1	---	---
13	e7.5	---	---	8.9	---	---	7.9	---	---
14	7.4	---	---	8.5	---	---	8.2	---	---
15	e7.5	---	---	7.6	---	---	8.7	---	---
16	e6.8	---	---	7.3	---	---	8.9	---	---
17	e6.7	---	---	6.9	---	---	12	---	---
18	e6.5	---	---	6.7	---	---	20	---	---
19	e8.0	---	---	11	---	---	13	---	---
20	e7.8	---	---	7.5	---	---	28	---	---
21	e7.2	---	---	7.1	---	---	24	---	---
22	e6.8	---	---	7.1	---	---	19	---	---
23	e7.3	---	---	6.7	---	---	21	---	---
24	e7.4	---	---	5.8	---	---	29	---	---
25	e7.6	---	---	e6.5	---	---	21	---	---
26	e7.8	---	---	e7.5	---	---	16	---	---
27	7.8	---	---	8.0	---	---	17	---	---
28	7.2	---	---	9.7	---	---	14	---	---
29	7.6	---	---	---	---	---	13	---	---
30	7.8	---	---	---	---	---	12	---	---
31	8.2	---	---	---	---	---	12	---	---
TOTAL	223.1	---	---	215.3	---	---	415.4	---	---

07103970 MONUMENT CREEK ABOVE WOODMEN ROAD AT COLORADO SPRINGS, CO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
		APRIL			MAY			JUNE	
1	16	29	1.3	44	55	6.6	42	1,030	365
2	18	30	1.4	45	51	6.2	17	173	8.3
3	16	20	0.83	42	---	e6.0	13	84	2.9
4	15	---	e0.78	41	95	11	25	404	59
5	18	---	e1.6	39	187	20	34	506	70
6	20	---	e2.1	33	138	12	19	145	7.8
7	14	29	1.1	33	102	9.0	22	---	e16
8	16	---	e1.3	32	---	e8.5	17	85	3.9
9	17	---	e1.3	30	119	10	15	60	2.5
10	16	31	1.3	35	179	19	13	42	1.5
11	13	---	e1.1	28	93	6.9	14	49	1.8
12	11	30	0.93	26	129	8.9	17	43	2.0
13	13	25	0.87	24	---	e6.1	19	46	2.4
14	17	22	1.0	23	77	4.8	16	28	1.2
15	25	49	3.4	25	75	5.4	14	25	0.94
16	31	---	e5.2	29	138	12	15	33	1.4
17	29	46	3.6	23	76	4.8	64	1,160	695
18	26	36	2.5	24	---	e6.1	39	483	69
19	27	---	e2.8	24	103	6.8	70	921	282
20	27	40	3.0	24	66	4.2	52	594	97
21	27	---	e2.7	21	65	3.7	27	222	17
22	53	1,100	386	18	48	2.4	16	---	e3.6
23	58	1,210	247	21	---	e9.7	14	124	4.6
24	71	1,240	250	16	---	e3.4	13	257	8.7
25	51	694	102	15	---	e3.1	15	176	9.5
26	39	198	21	15	---	e2.9	52	595	165
27	19	122	6.5	14	---	e2.8	17	---	e4.3
28	32	150	15	12	66	2.1	13	78	2.8
29	58	---	e51	11	39	1.2	20	179	11
30	47	105	14	11	50	1.6	14	121	4.8
31	---	---	---	26	309	26	---	---	---
TOTAL	840	---	1,132.61	804	---	233.2	738	---	1,920.94
		JULY			AUGUST			SEPTEMBER	
1	11	65	2.0	5.6	---	e0.27	22	222	15
2	9.4	---	e1.2	5.4	13	0.19	16	---	e3.4
3	8.9	47	1.1	7.8	67	3.1	38	767	180
4	9.1	20	0.49	17	257	29	18	193	11
5	8.5	13	0.30	7.4	40	0.82	13	---	e2.8
6	8.4	19	0.44	5.6	---	e0.47	16	97	4.7
7	8.2	---	e0.61	4.4	14	0.17	23	181	14
8	7.3	29	0.58	4.7	10	0.12	19	93	5.1
9	6.3	21	0.36	26	705	395	14	36	1.4
10	5.6	---	e0.30	5.2	99	1.4	12	---	e1.0
11	5.5	---	e0.29	7.9	---	e1.5	9.7	32	0.84
12	5.5	---	e0.28	7.3	48	0.98	9.9	21	0.58
13	5.1	---	e0.25	6.1	32	0.54	10	16	0.43
14	5.2	---	e0.25	4.8	18	0.23	11	22	0.62
15	5.2	---	e0.25	5.4	23	0.34	10	---	e0.72
16	7.8	50	1.8	4.7	---	e0.29	9.7	22	0.60
17	5.8	---	e0.94	4.3	18	0.21	8.5	13	0.30
18	5.0	---	e1.2	7.7	33	1.3	9.3	25	0.69
19	13	502	86	6.8	25	0.48	11	29	0.93
20	9.2	69	2.6	4.6	12	0.15	9.7	---	e0.79
21	5.3	15	0.22	3.8	8	0.08	9.1	20	0.50
22	5.4	45	0.67	3.8	16	0.16	10	14	0.38
23	5.6	20	0.30	3.7	20	0.20	11	9	0.27
24	5.6	13	0.20	8.3	109	10	10	9	0.25
25	6.0	63	1.3	4.2	34	0.43	11	---	e1.1
26	6.4	---	e1.7	3.5	---	e0.14	14	179	6.8
27	15	136	12	18	486	90	10	33	0.94
28	16	241	46	7.2	64	1.7	9.8	10	0.25
29	8.1	43	1.1	32	1,500	350	10	7	0.20
30	5.8	30	0.46	79	1,330	743	11	---	e0.21
31	5.3	40	0.58	157	3,350	2,430	---	---	---
TOTAL	234.5	---	165.77	469.2	---	4,062.27	395.7	---	255.80

e Estimated.

07103977 COTTONWOOD CREEK AT COWPOKE ROAD AT COLORADO SPRINGS, CO

LOCATION.--Lat 38°57'04", long 104°42'47", in SE¼NW¼ 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.--5.93 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1998 to October 2002 (seasonal records only) (discontinued). October 2002 to September 2003 (annual maximum only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103977

GAGE.--Water-stage recorder with satellite telemetry and artificial control. Elevation of gage is 6,875 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Natural flow of stream affected by erosion-control and livestock-watering reservoirs and ground-water withdrawals. Station operated as both a crest-stage partial-record station and continuous-record station in October and as only a crest-stage partial-record station beginning in November.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 230 ft^3/s, June 23, 1999, from rating curve extended above 42 ft^3/s on basis of velocity-area study, gage height, 6.25 ft, from floodmarks; minimum daily, 0.01 ft^3/s (estimated), July 12, 2002.

EXTREMES FOR CURRENT YEAR (seasonal only).--Minimum daily discharge during October, 0.04 ft^3/s (estimated), Oct. 21; maximum discharge for the 2003 water year is published in the "Maximum Discharge at Crest-Stage Partial-Record Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.07	---	---	---	---	---	---	---	---	---	---	---
2	e0.07	---	---	---	---	---	---	---	---	---	---	---
3	e0.07	---	---	---	---	---	---	---	---	---	---	---
4	e0.07	---	---	---	---	---	---	---	---	---	---	---
5	e0.07	---	---	---	---	---	---	---	---	---	---	---
6	e0.07	---	---	---	---	---	---	---	---	---	---	---
7	e0.07	---	---	---	---	---	---	---	---	---	---	---
8	e0.07	---	---	---	---	---	---	---	---	---	---	---
9	e0.07	---	---	---	---	---	---	---	---	---	---	---
10	e0.07	---	---	---	---	---	---	---	---	---	---	---
11	e0.07	---	---	---	---	---	---	---	---	---	---	---
12	e0.07	---	---	---	---	---	---	---	---	---	---	---
13	e0.07	---	---	---	---	---	---	---	---	---	---	---
14	e0.07	---	---	---	---	---	---	---	---	---	---	---
15	e0.06	---	---	---	---	---	---	---	---	---	---	---
16	e0.06	---	---	---	---	---	---	---	---	---	---	---
17	e0.06	---	---	---	---	---	---	---	---	---	---	---
18	e0.06	---	---	---	---	---	---	---	---	---	---	---
19	e0.06	---	---	---	---	---	---	---	---	---	---	---
20	e0.05	---	---	---	---	---	---	---	---	---	---	---
21	e0.04	---	---	---	---	---	---	---	---	---	---	---
22	e0.05	---	---	---	---	---	---	---	---	---	---	---
23	e0.06	---	---	---	---	---	---	---	---	---	---	---
24	e0.06	---	---	---	---	---	---	---	---	---	---	---
25	e0.06	---	---	---	---	---	---	---	---	---	---	---
26	e0.07	---	---	---	---	---	---	---	---	---	---	---
27	e0.08	---	---	---	---	---	---	---	---	---	---	---
28	e0.06	---	---	---	---	---	---	---	---	---	---	---
29	e0.05	---	---	---	---	---	---	---	---	---	---	---
30	e0.05	---	---	---	---	---	---	---	---	---	---	---
31	e0.05	---	---	---	---	---	---	---	---	---	---	---
TOTAL	1.96	---	---	---	---	---	---	---	---	---	---	---
MEAN	0.063	---	---	---	---	---	---	---	---	---	---	---
MAX	0.08	---	---	---	---	---	---	---	---	---	---	---
MIN	0.04	---	---	---	---	---	---	---	---	---	---	---
AC-FT	3.9	---	---	---	---	---	---	---	---	---	---	---

e Estimated.

07103977 COTTONWOOD CREEK AT COWPOKE ROAD AT COLORADO SPRINGS, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1998 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103977

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT: April 1998 to October 2002 (seasonal records only) (discontinued).

INSTRUMENTATION.--Pumping sediment sampler with satellite telemetry.

REMARKS.--Daily suspended-sediment records are poor.

EXTREMES FOR PERIOD OF RECORD.--
SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 6,760 mg/L, May 25, 1999; minimum daily mean, 7 mg/L, June 13, 2000.
SUSPENDED-SEDIMENT DISCHARGE (seasonal only): Maximum daily, 2,510 tons (estimated), Apr. 30, 1999; minimum daily, 0.0 ton (most estimated), on many days in 2000 and 2002.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT DISCHARGE (seasonal only): Maximum daily during October, 0.09 ton (estimated), Oct. 2-3; minimum daily, 0.03 ton (estimated), Oct. 20-22.

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

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)
NOV													
06...	1300	0.05	8.8	7.9	412	10.0	0.052	E.04	<0.02	0.47	--	E2100	E1600
JUN													
24...	1035	0.05	6.5	7.6	503	22.5	0.043	E.04	<0.02	0.08	4,200	--	3,900

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

Date	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
NOV		
06...	2,000	0.27
JUN		
24...	178	0.02

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

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING,
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Suspended sediment concentration mg/L (80154)
JUL													
28...	1935	2.5	7.3	e5.5	273	17.0	0.635	1.04	<0.02	4.30	18,000	20,000	17,600

07103977 COTTONWOOD CREEK AT COWPOKE ROAD AT COLORADO SPRINGS, CO—Continued

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING,
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Suspended sediment load, tons/d (80155)
JUL	
28...	121

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

MISCELLANEOUS FIELD AND SUSPENDED-SEDIMENT DISCHARGE DATA,
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)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
OCT						
02...	1045	0.07	453	9.0	501	0.09
09...	0800	0.07	435	7.5	253	0.05
22...	1145	0.05	453	9.5	214	0.03
NOV						
05...	0745	0.05	534	0.0	580	0.08
06...	1300	0.05	412	10.0	2,000	0.27
JUN						
24...	1035	0.05	503	22.5	178	0.02
JUL						
28...	1935	2.5	273	17.0	17,600	121

07103977 COTTONWOOD CREEK AT COWPOKE ROAD AT COLORADO SPRINGS, CO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
	OCTOBER		
1	e0.07	---	e0.07
2	e0.07	---	e0.09
3	e0.07	---	e0.09
4	e0.07	---	e0.08
5	e0.07	---	e0.07
6	e0.07	---	e0.07
7	e0.07	---	e0.06
8	e0.07	---	e0.05
9	e0.07	---	e0.05
10	e0.07	---	e0.05
11	e0.07	---	e0.05
12	e0.07	---	e0.05
13	e0.07	---	e0.05
14	e0.07	---	e0.04
15	e0.06	---	e0.04
16	e0.06	---	e0.04
17	e0.06	---	e0.04
18	e0.06	---	e0.04
19	e0.06	---	e0.04
20	e0.05	---	e0.03
21	e0.04	---	e0.03
22	e0.05	---	e0.03
23	e0.06	---	e0.04
24	e0.06	---	e0.04
25	e0.06	---	e0.05
26	e0.07	---	e0.06
27	e0.08	---	e0.07
28	e0.06	---	e0.07
29	e0.05	---	e0.06
30	e0.05	---	e0.06
31	e0.05	---	e0.06
TOTAL	1.96	---	1.67

e Estimated.

07103980 COTTONWOOD CREEK AT WOODMEN ROAD NEAR COLORADO SPRINGS, CO

LOCATION.--Lat 38°56'22", long 104°44'26", in NE¼NE¼ sec.11, T.13 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on left bank, 250 ft downstream from Woodmen Road, 4.0 mi east of Interstate 25, 5.0 mi upstream from mouth, and 8.2 mi northeast of courthouse in Colorado Springs.

DRAINAGE AREA.--10.3 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 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=07103980

REVISED RECORDS.--WDR CO-93-1: Drainage area. WDR CO-96-1: 1995 (M)

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,680 ft above NGVD of 1929, from topographic map. Prior to Apr. 13, 1999, at site 150 ft upstream at datum 10 ft higher.

REMARKS.--Records fair except for estimated daily discharges and those above 10 ft^3/s, which are poor. Natural flow of stream affected by erosion-control and livestock-watering reservoirs and ground-water withdrawals.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	0.38	0.62	0.35	0.34	2.0	0.73	0.70	3.1	0.90	0.45	1.7
2	1.2	1.0	0.53	e0.30	0.36	0.87	0.73	0.90	0.59	0.94	0.26	1.2
3	0.63	0.70	0.57	e0.30	0.66	0.93	0.63	0.74	0.65	0.79	1.5	4.4
4	0.56	0.56	0.40	0.46	e0.56	0.52	0.53	1.3	6.7	0.70	2.3	0.65
5	0.58	0.46	0.34	0.36	e0.52	1.6	1.8	0.69	3.9	0.63	0.35	1.2
6	0.56	0.38	0.33	0.33	e0.48	0.78	1.1	0.78	0.88	0.55	0.33	6.6
7	0.45	0.42	0.34	0.39	e0.46	0.57	0.65	0.72	2.0	0.55	0.26	3.8
8	0.54	0.37	0.29	0.47	e0.40	0.40	0.64	0.59	0.92	0.54	0.27	1.7
9	0.50	0.42	0.25	0.41	e0.50	0.34	0.49	0.58	1.2	0.50	0.53	1.3
10	0.51	0.34	0.30	e0.35	e0.46	0.43	0.38	1.1	0.85	0.44	0.47	0.84
11	0.49	0.32	0.33	e0.30	e0.50	0.58	0.42	0.68	0.71	0.44	0.53	0.88
12	0.50	0.32	0.31	0.58	e0.60	0.55	0.42	0.57	1.2	0.52	0.50	1.0
13	0.51	0.63	0.34	0.61	0.66	0.49	0.52	0.67	1.2	0.48	0.44	0.84
14	0.53	0.59	0.24	0.48	0.60	0.46	0.40	0.62	1.0	0.45	0.36	0.87
15	0.44	0.50	0.20	0.45	0.52	0.55	1.2	1.00	1.0	0.51	0.39	1.0
16	0.35	0.49	0.23	e0.38	0.57	0.50	0.97	0.83	1.2	0.60	0.42	0.83
17	0.37	0.33	0.21	e0.40	0.66	1.4	0.82	0.76	e17	0.61	0.41	0.79
18	0.39	0.25	0.22	e0.30	0.92	1.8	0.61	0.68	e1.2	0.53	1.9	0.91
19	0.38	0.31	e0.20	e0.25	2.6	7.0	1.2	0.60	11	4.4	0.50	0.84
20	0.37	0.33	e0.20	e0.25	1.1	4.2	0.68	0.60	0.90	0.33	0.48	0.68
21	0.31	0.39	0.30	e0.27	0.72	2.4	0.58	0.50	0.54	0.26	0.42	0.63
22	0.35	0.44	e0.25	e0.29	0.44	2.3	2.5	0.50	1.1	0.36	0.52	0.80
23	0.45	0.52	0.30	e0.30	0.68	2.3	3.7	1.2	0.94	0.67	0.48	0.80
24	0.45	0.51	0.27	0.37	0.80	4.4	4.6	0.54	1.00	0.96	0.70	0.70
25	0.47	0.44	e0.30	0.33	1.1	2.2	0.49	0.71	1.5	1.6	0.60	0.60
26	2.4	e0.45	e0.30	0.37	e0.90	1.3	0.49	0.62	4.0	2.3	0.63	0.63
27	1.1	e0.60	0.25	0.38	0.69	0.78	0.44	0.57	0.44	2.5	3.2	0.53
28	0.51	0.59	0.29	0.30	1.1	0.88	0.46	0.65	0.57	11	0.49	0.57
29	0.36	0.57	0.30	0.29	---	1.2	0.51	1.1	0.69	0.59	0.56	0.61
30	0.44	0.52	0.26	0.36	---	0.75	0.62	0.70	0.80	0.53	19	0.65
31	0.54	---	0.28	0.43	---	0.79	---	0.88	---	0.44	14	---
TOTAL	18.54	14.13	9.55	11.41	19.90	45.27	29.31	23.08	68.78	36.62	53.25	38.55
MEAN	0.60	0.47	0.31	0.37	0.71	1.46	0.98	0.74	2.29	1.18	1.72	1.28
MAX	2.4	1.0	0.62	0.61	2.6	7.0	4.6	1.3	17	11	19	6.6
MIN	0.31	0.25	0.20	0.25	0.34	0.34	0.38	0.50	0.44	0.26	0.26	0.53
AC-FT	37	28	19	23	39	90	58	46	136	73	106	76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2003, BY WATER YEAR (WY)

MEAN	1.20	1.06	0.76	0.66	0.80	1.25	1.83	3.09	2.96	2.22	2.38	1.33
MAX	2.59	3.20	1.71	1.36	1.26	3.34	6.42	13.6	8.85	5.07	6.36	2.82
(WY)	(1995)	(1998)	(2000)	(1998)	(1998)	(1998)	(1999)	(1999)	(1995)	(1999)	(1999)	(1995)
MIN	0.35	0.47	0.31	0.33	0.42	0.49	0.50	0.64	0.49	0.24	0.40	0.47
(WY)	(1993)	(1993)	(2003)	(1994)	(1994)	(1995)	(1996)	(1993)	(1994)	(1994)	(2002)	(1992)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1992 - 2003	
ANNUAL TOTAL	262.68		368.39			
ANNUAL MEAN	0.72		1.01		1.67	
HIGHEST ANNUAL MEAN					3.63	1999
LOWEST ANNUAL MEAN					0.65	1993
HIGHEST DAILY MEAN	12	Jul 5	19	Aug 30	e100	Apr 30, 1999
LOWEST DAILY MEAN	0.20	Dec 15	0.20	Dec 15	a0.15	Jan 23, 1995
ANNUAL SEVEN-DAY MINIMUM	0.21	Dec 14	0.21	Dec 14	0.17	Jan 21, 1995
MAXIMUM PEAK FLOW			b511	Jun 17	c1,090	Jul 19, 1993
MAXIMUM PEAK STAGE			d7.07	Jun 17	f5.57	Jul 19, 1993
ANNUAL RUNOFF (AC-FT)	521		731		1,210	
10 PERCENT EXCEEDS	1.0		1.6		3.0	
50 PERCENT EXCEEDS	0.56		0.56		0.83	
90 PERCENT EXCEEDS	0.33		0.30		0.36	

e Estimated.
a Also occurred Jan 23, Feb 3 (estimated), 1996.
b From rating curve extended above 19 ft^3/s on basis of velocity-area study.
c From rating curve extended above 1.1 ft^3/s on basis of slope-area measurement of peak flow at gage height 4.45 ft, site and datum then in use.
d From floodmarks.
f From floodmarks, site and datum then in use. Maximum gage height, 7.84 ft, May 25, 1999.

07103980 COTTONWOOD CREEK AT WOODMEN ROAD NEAR COLORADO SPRINGS, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1998 to current year (seasonal peaks only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103980

MISCELLANEOUS FIELD AND SUSPENDED-SEDIMENT DISCHARGE DATA, 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)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
APR							
08...	1045	0.86	--	760	--	--	--
MAY							
14...	0735	0.65	--	726	--	--	--
JUN							
18...	1520	1.4	649	--	--	2,740	10
JUL							
28...	2045	23	--	262	95	8,450	516
AUG							
19...	1300	0.41	716	--	--	--	--
SEP							
10...	1030	0.90	721	--	--	--	--
10...	1040	1.6	765	--	--	--	--

07103980 COTTONWOOD CREEK AT WOODMEN ROAD NEAR COLORADO SPRINGS, CO—Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--April to September 2003 (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103980

GAGE.--Tipping-bucket rain gage with satellite telemetry.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.75 inches, June 17, 2003.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation for period April to September, 1.75 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	0.42	0.00	0.01	0.00
2	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.16
3	---	---	---	---	---	---	---	0.00	0.00	0.00	0.30	0.32
4	---	---	---	---	---	---	---	0.09	0.28	0.00	0.12	0.00
5	---	---	---	---	---	---	---	0.00	0.42	0.00	0.01	0.00
6	---	---	---	---	---	---	---	0.00	0.04	0.00	0.00	0.65
7	---	---	---	---	---	---	---	0.00	0.19	0.00	0.00	0.25
8	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
9	---	---	---	---	---	---	e0.00	0.05	0.12	0.00	0.07	0.00
10	---	---	---	---	---	---	0.00	0.10	0.01	0.00	0.13	0.00
11	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.03	0.00
12	---	---	---	---	---	---	0.00	0.00	0.14	0.01	0.00	0.00
13	---	---	---	---	---	---	0.00	0.00	0.01	0.00	0.00	0.02
14	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
15	---	---	---	---	---	---	0.11	0.15	0.00	0.00	0.00	0.00
16	---	---	---	---	---	---	0.00	0.00	0.00	0.04	0.00	0.00
17	---	---	---	---	---	---	0.00	0.00	1.75	0.00	0.02	0.00
18	---	---	---	---	---	---	0.00	0.00	0.01	0.01	0.16	0.00
19	---	---	---	---	---	---	0.11	0.00	1.12	0.55	0.00	0.00
20	---	---	---	---	---	---	0.02	0.01	0.00	0.00	0.00	0.04
21	---	---	---	---	---	---	0.01	0.00	0.00	0.00	0.00	0.00
22	---	---	---	---	---	---	0.50	0.00	0.00	0.00	0.00	0.04
23	---	---	---	---	---	---	0.31	0.19	0.00	0.00	0.00	0.00
24	---	---	---	---	---	---	0.36	0.00	0.00	0.00	0.09	0.00
25	---	---	---	---	---	---	0.00	0.03	0.16	0.06	0.00	0.00
26	---	---	---	---	---	---	0.00	0.02	0.34	0.22	0.01	0.00
27	---	---	---	---	---	---	0.00	0.00	0.00	0.15	0.50	0.00
28	---	---	---	---	---	---	0.00	0.00	0.07	0.67	0.03	0.00
29	---	---	---	---	---	---	0.00	0.12	0.00	0.00	0.09	0.00
30	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.69	0.00
31	---	---	---	---	---	---	---	0.01	---	0.00	0.41	---
TOTAL	---	---	---	---	---	---	---	0.77	5.08	1.71	3.67	1.48
MAX	---	---	---	---	---	---	---	0.19	1.75	0.67	1.69	0.65

e Estimated.

07103985 COTTONWOOD CREEK TRIBUTARY ABOVE RANGEWOOD DRIVE AT COLORADO SPRINGS, CO

LOCATION.--Lat 38°55'45", long 104°44'48", in SE¼SW¼ sec.11, T.13S., R.66W., 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.--2.81 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1998 to October 2002 (discontinued) (seasonal records only). October 2002 to September 2003 (annual maximum only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103985

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,630 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream affected by erosion-control and livestock-watering reservoirs. Station operated as both a crest-stage partial-record station and continuous-record station in October and as only a crest-stage partial-record station beginning in November.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum discharge, 2,960 ft^3/s, July 13, 2001, gage height, 8.76 ft, from rating curve extended above 65 ft^3/s on basis of slope-area measurement of peak flow at gage height 8.75 feet; minimum daily, 0.18 ft^3/s, April 18, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during October, 18 ft^3/s, Oct. 26, gage height, 5.26 ft; minimum daily, 0.54 ft^3/s, Oct. 4; maximum discharge for 2003 water year is published in the "Maximum Discharge at Crest-Stage Partial-Record Stations" section of this report.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.85	---	---	---	---	---	---	---	---	---	---	---
2	0.87	---	---	---	---	---	---	---	---	---	---	---
3	0.67	---	---	---	---	---	---	---	---	---	---	---
4	0.54	---	---	---	---	---	---	---	---	---	---	---
5	0.58	---	---	---	---	---	---	---	---	---	---	---
6	0.55	---	---	---	---	---	---	---	---	---	---	---
7	0.56	---	---	---	---	---	---	---	---	---	---	---
8	0.59	---	---	---	---	---	---	---	---	---	---	---
9	0.61	---	---	---	---	---	---	---	---	---	---	---
10	0.60	---	---	---	---	---	---	---	---	---	---	---
11	0.57	---	---	---	---	---	---	---	---	---	---	---
12	0.55	---	---	---	---	---	---	---	---	---	---	---
13	0.56	---	---	---	---	---	---	---	---	---	---	---
14	0.56	---	---	---	---	---	---	---	---	---	---	---
15	0.56	---	---	---	---	---	---	---	---	---	---	---
16	0.61	---	---	---	---	---	---	---	---	---	---	---
17	0.61	---	---	---	---	---	---	---	---	---	---	---
18	0.61	---	---	---	---	---	---	---	---	---	---	---
19	0.61	---	---	---	---	---	---	---	---	---	---	---
20	0.61	---	---	---	---	---	---	---	---	---	---	---
21	0.60	---	---	---	---	---	---	---	---	---	---	---
22	0.77	---	---	---	---	---	---	---	---	---	---	---
23	0.72	---	---	---	---	---	---	---	---	---	---	---
24	0.63	---	---	---	---	---	---	---	---	---	---	---
25	0.64	---	---	---	---	---	---	---	---	---	---	---
26	2.1	---	---	---	---	---	---	---	---	---	---	---
27	1.0	---	---	---	---	---	---	---	---	---	---	---
28	0.61	---	---	---	---	---	---	---	---	---	---	---
29	0.61	---	---	---	---	---	---	---	---	---	---	---
30	0.61	---	---	---	---	---	---	---	---	---	---	---
31	0.67	---	---	---	---	---	---	---	---	---	---	---
TOTAL	21.23	---	---	---	---	---	---	---	---	---	---	---
MEAN	0.68	---	---	---	---	---	---	---	---	---	---	---
MAX	2.1	---	---	---	---	---	---	---	---	---	---	---
MIN	0.54	---	---	---	---	---	---	---	---	---	---	---
AC-FT	42	---	---	---	---	---	---	---	---	---	---	---

07103985 COTTONWOOD CREEK TRIBUTARY ABOVE RANGEWOOD DRIVE AT COLORADO SPRINGS, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1998 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103985

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT: April 1998 to October 2002 (seasonal records only) (discontinued).

INSTRUMENTATION.--Pumping sediment sampler with satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--
SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 8,990 mg/L, Apr. 30, 1999; minimum daily mean, 1 mg/L, June 11, Sept. 24-25, 2002.
SUSPENDED-SEDIMENT DISCHARGE (seasonal only): Maximum daily, 1,250 tons, June 7, 2001; minimum daily, 0.0 ton, on many days (some estimated) in 1999, 2000, 2002, and 2003.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean during October, 40 mg/L, Oct. 27; minimum daily mean, 1 mg/L, Oct. 10, 12, 17.
SUSPENDED-SEDIMENT DISCHARGE (seasonal only): Maximum daily during October, 0.68 ton, Oct. 26; minimum daily, 0.0 ton, on many days (some estimated).

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

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/100 mL (90902)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/100 mL (31625)
NOV													
06...	1200	e0.60	9.1	8.4	1,120	11.0	0.022	6.28	0.02	0.04	--	E20	E10
JUN													
24...	1145	1.1	6.9	8.3	1,080	20.0	0.108	5.45	0.02	0.07	E230	--	E270

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

Date	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
NOV		
06...	2	E.00
JUN		
24...	83	0.24

e -- Estimated.
E -- Estimated laboratory analysis value.

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/100 mL (31625)	Suspended sediment concentration mg/L (80154)
JUN													
12...	1655	31	7.1	8.0	150	16.5	0.556	0.93	0.12	0.67	2,800	4,100	765

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Suspended sediment load, tons/d (80155)
JUN	
12...	64

07103985 COTTONWOOD CREEK TRIBUTARY ABOVE RANGEWOOD DRIVE AT COLORADO SPRINGS, CO—Continued

MISCELLANEOUS FIELD AND SUSPENDED-SEDIMENT DISCHARGE DATA, 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)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
OCT						
22...	1100	0.62	1,070	11.5	0.0	0.00
NOV						
05...	0845	0.61	1,110	4.5	8	0.01
06...	1200	e0.60	1,120	11.0	2	e0.00
JUN						
12...	1655	31	150	16.5	765	64
24...	1145	1.1	1,080	20.0	83	0.24

e -- Estimated.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
	OCTOBER		
1	0.85	---	e0.18
2	0.87	18	0.09
3	0.67	---	e0.03
4	0.54	2	0.00
5	0.58	---	e0.00
6	0.55	---	e0.00
7	0.56	---	e0.00
8	0.59	---	e0.00
9	0.61	---	e0.00
10	0.60	1	0.00
11	0.57	---	e0.00
12	0.55	1	0.00
13	0.56	---	e0.00
14	0.56	---	e0.00
15	0.56	---	e0.00
16	0.61	---	e0.00
17	0.61	1	0.00
18	0.61	---	e0.00
19	0.61	---	e0.00
20	0.61	---	e0.00
21	0.60	---	e0.00
22	0.77	11	0.06
23	0.72	---	e0.04
24	0.63	---	e0.00
25	0.64	---	e0.00
26	2.1	26	0.68
27	1.0	40	0.24
28	0.61	---	e0.02
29	0.61	---	e0.02
30	0.61	---	e0.01
31	0.67	---	e0.01
TOTAL	21.23	---	1.38

e Estimated.

07103985 COTTONWOOD CREEK TRIBUTARY ABOVE RANGEWOOD DRIVE AT COLORADO SPRINGS, CO—Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--April 2001 to October 2002 (discontinued) (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103985

GAGE.--Tipping-bucket rain gage with satellite telemetry.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 2.43 inches, July 9, 2001.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation during October, 0.45 inch, Oct. 26.

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	0.24	---	---	---	---	---	---	---	---	---	---	---
2	0.10	---	---	---	---	---	---	---	---	---	---	---
3	0.03	---	---	---	---	---	---	---	---	---	---	---
4	0.00	---	---	---	---	---	---	---	---	---	---	---
5	0.00	---	---	---	---	---	---	---	---	---	---	---
6	0.00	---	---	---	---	---	---	---	---	---	---	---
7	0.00	---	---	---	---	---	---	---	---	---	---	---
8	0.00	---	---	---	---	---	---	---	---	---	---	---
9	0.00	---	---	---	---	---	---	---	---	---	---	---
10	0.00	---	---	---	---	---	---	---	---	---	---	---
11	0.00	---	---	---	---	---	---	---	---	---	---	---
12	0.00	---	---	---	---	---	---	---	---	---	---	---
13	0.00	---	---	---	---	---	---	---	---	---	---	---
14	0.00	---	---	---	---	---	---	---	---	---	---	---
15	0.00	---	---	---	---	---	---	---	---	---	---	---
16	0.00	---	---	---	---	---	---	---	---	---	---	---
17	0.00	---	---	---	---	---	---	---	---	---	---	---
18	0.00	---	---	---	---	---	---	---	---	---	---	---
19	0.00	---	---	---	---	---	---	---	---	---	---	---
20	0.00	---	---	---	---	---	---	---	---	---	---	---
21	0.00	---	---	---	---	---	---	---	---	---	---	---
22	0.00	---	---	---	---	---	---	---	---	---	---	---
23	0.00	---	---	---	---	---	---	---	---	---	---	---
24	0.01	---	---	---	---	---	---	---	---	---	---	---
25	0.15	---	---	---	---	---	---	---	---	---	---	---
26	0.45	---	---	---	---	---	---	---	---	---	---	---
27	0.09	---	---	---	---	---	---	---	---	---	---	---
28	0.01	---	---	---	---	---	---	---	---	---	---	---
29	0.00	---	---	---	---	---	---	---	---	---	---	---
30	0.00	---	---	---	---	---	---	---	---	---	---	---
31	0.00	---	---	---	---	---	---	---	---	---	---	---
TOTAL	1.08	---	---	---	---	---	---	---	---	---	---	---
MAX	0.45	---	---	---	---	---	---	---	---	---	---	---

07103990 COTTONWOOD CREEK AT MOUTH AT PIKEVIEW, CO

LOCATION.--Lat 38°55'41", long 104°48'35", in SW¼SW¼ sec.8, T.13 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank 20 ft upstream from Vincent Drive bridge, 0.3 mi south of Woodmen Road, 0.3 mi upstream from mouth, and 1.2 mi northeast of Pikeview.

DRAINAGE AREA.--18.7 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 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=07103990

GAGE.--Water-stage recorder with satellite telemetry, crest-stage gage, and concrete control. Elevation of gage is 6,265 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by erosion-control and livestock-watering reservoirs and ground-water withdrawals.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	3.7	5.2	e3.5	e3.0	e4.0	4.9	3.2	16	3.0	3.1	7.8
2	9.9	10	4.9	e3.0	e3.5	e5.0	4.6	3.3	2.7	2.8	4.1	13
3	4.6	4.6	5.9	e3.0	e3.5	e3.0	3.8	2.9	2.6	2.7	8.5	18
4	4.4	3.3	5.3	e4.0	e3.0	3.5	4.1	4.1	15	2.5	9.9	4.1
5	3.9	3.4	5.2	e4.0	e3.0	e3.0	11	2.2	21	2.7	3.0	3.7
6	4.0	e3.0	e5.0	e5.0	4.0	e3.0	8.4	2.8	3.0	3.4	3.5	12
7	3.9	e3.0	e4.5	e5.0	3.4	e2.5	3.0	2.6	8.3	2.4	3.9	12
8	4.1	e3.0	e4.0	e5.5	e3.0	e5.5	3.5	2.6	4.2	3.2	3.2	e6.0
9	4.4	e3.0	e4.0	6.1	e3.0	2.4	3.1	3.1	6.3	2.2	7.3	e5.0
10	3.8	e4.0	e3.5	4.9	e3.0	3.6	3.2	7.1	3.7	2.8	e4.0	4.0
11	e3.8	e4.0	e3.0	e4.0	e3.0	3.9	3.3	2.8	4.3	2.6	3.7	4.3
12	3.6	e4.0	e3.0	4.5	e4.0	4.1	2.9	2.4	8.6	3.7	e4.0	4.8
13	4.1	e3.0	e3.5	e5.0	e5.0	4.3	3.3	2.4	6.9	3.0	e3.0	7.7
14	3.8	e3.0	e4.0	e5.0	4.7	5.3	3.0	e2.0	5.3	2.9	e3.0	7.3
15	3.1	e3.0	4.5	e5.0	5.7	4.5	4.3	4.9	5.7	3.0	e2.5	7.1
16	4.4	e3.0	3.5	e5.0	4.5	4.4	3.6	3.4	5.9	5.8	e2.5	5.2
17	4.9	e3.0	4.7	e4.0	4.7	9.7	3.0	2.5	53	2.4	e2.5	4.0
18	3.3	e3.0	4.9	e4.0	5.3	15	e3.5	2.4	7.9	2.2	4.6	4.2
19	3.2	e3.0	e5.0	e4.0	13	8.9	4.6	2.5	33	13	e4.0	4.6
20	2.8	e3.0	e4.5	3.7	6.5	32	4.2	2.3	10	3.9	e3.0	3.4
21	2.6	e4.0	e4.0	3.9	4.1	14	3.4	2.0	6.5	2.7	e3.0	3.1
22	3.6	e4.0	e4.0	3.7	4.6	12	15	3.5	6.0	4.0	e3.0	3.8
23	3.7	e4.0	e4.0	e6.0	5.3	11	21	8.0	5.7	4.4	e3.0	3.4
24	5.3	e4.0	e4.0	5.0	e4.5	22	29	2.3	5.3	3.3	5.0	3.4
25	4.2	e5.0	e4.0	6.1	e4.0	12	3.5	3.5	6.9	4.2	4.9	4.3
26	15	e5.0	e4.0	5.6	e4.0	7.1	3.1	4.6	15	5.2	5.8	3.4
27	12	e5.0	e4.5	4.3	e4.0	6.2	3.2	2.8	2.5	13	16	3.7
28	3.0	e5.0	e4.5	5.5	e4.0	5.2	3.9	2.5	3.0	30	4.4	3.8
29	e3.0	4.7	e4.5	e4.0	---	5.3	3.4	6.7	3.2	4.2	30	4.6
30	4.7	4.1	e4.5	e3.5	---	5.4	2.5	3.4	3.3	3.3	36	3.7
31	3.8	---	e4.0	e3.0	---	5.8	---	3.8	---	2.8	53	---
TOTAL	147.7	117.8	134.1	138.8	123.3	233.6	173.3	104.6	280.8	147.3	247.4	175.4
MEAN	4.76	3.93	4.33	4.48	4.40	7.54	5.78	3.37	9.36	4.75	7.98	5.85
MAX	15	10	5.9	6.1	13	32	29	8.0	53	30	53	18
MIN	2.6	3.0	3.0	3.0	3.0	2.4	2.5	2.0	2.5	2.2	2.5	3.1
AC-FT	293	234	266	275	245	463	344	207	557	292	491	348

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2003, BY WATER YEAR (WY)

MEAN	5.75	5.14	4.49	4.36	4.56	5.58	6.84	9.25	9.64	9.65	9.32	6.43
MAX	9.59	9.18	7.90	7.60	7.56	11.1	33.3	40.7	26.4	26.2	27.7	13.9
(WY)	(1995)	(1998)	(1998)	(2000)	(2000)	(1992)	(1999)	(1999)	(1995)	(2001)	(1999)	(1999)
MIN	1.93	2.90	1.92	2.30	2.28	2.57	3.31	2.71	3.05	2.34	3.93	2.67
(WY)	(1987)	(1987)	(1992)	(1987)	(1990)	(1999)	(1989)	(1986)	(1990)	(1992)	(2002)	(1986)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1986 - 2003	
ANNUAL TOTAL	1,853.8		2,024.1			
ANNUAL MEAN	5.08		5.55		6.91	
HIGHEST ANNUAL MEAN					15.7	1999
LOWEST ANNUAL MEAN					4.01	1989
HIGHEST DAILY MEAN	140	Jul 5	53	Jun 17	e500	Apr 30, 1999
LOWEST DAILY MEAN	2.3	Jun 19	2.0	May 14	a0.01	Jul 10, 1989
ANNUAL SEVEN-DAY MINIMUM	2.6	Jun 17	2.7	May 16	0.12	Jul 5, 1989
MAXIMUM PEAK FLOW			b1,440	Jun 17	c,d2,710	Jul 9, 2001
MAXIMUM PEAK STAGE			7.87	Jun 17	d,f9.53	Jul 9, 2001
ANNUAL RUNOFF (AC-FT)	3,680		4,010		5,000	
10 PERCENT EXCEEDS	5.4		9.2		10	
50 PERCENT EXCEEDS	4.0		4.0		4.7	
90 PERCENT EXCEEDS	3.0		2.8		2.5	

e Estimated.
a Also occurred Jul 11, 1989.
b From rating curve extended above 213 ft^3/s, on basis of critical-depth measurement of peak flow at gage height 9.02 ft.
c From rating curve extended above 900 ft^3/s, on basis of critical-depth measurement of peak flow at gage height 9.02 ft.
d Also occurred Jul 13, 2001.
f From floodmarks.

07103990 COTTONWOOD CREEK AT MOUTH AT PIKEVIEW, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1998 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07103990

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT: April 1998 to current year (seasonal records only).

INSTRUMENTATION.--Pumping sediment sampler with satellite telemetry.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 7,870 mg/L, May 25, 1999; minimum daily mean, 96 mg/L, Oct. 2, 2001.
SUSPENDED-SEDIMENT DISCHARGE (seasonal only): Maximum daily, 13,500 tons (estimated), April 30, 1999; minimum daily, 0.59 ton (estimated), Oct. 11, 2002.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 3,390 mg/L, July 28; minimum daily mean, 134 mg/L, Oct. 7.
SUSPENDED-SEDIMENT DISCHARGE (seasonal only): Maximum daily, 1,900 tons, June 17; minimum daily, 0.59 ton (estimated), Oct. 11.

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

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)
NOV													
06...	1030	e3.6	10.4	8.4	737	5.0	E.009	5.11	E.01	0.12	--	E44	50
JUN													
24...	0915	6.6	7.3	8.3	786	18.0	E.022	4.14	0.03	0.23	E620	--	E640

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

Date	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
NOV		
06...	376	E3.7
JUN		
24...	490	8.7

E -- Estimated laboratory analysis value.
e -- Estimated.

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Suspended sediment concentration mg/L (80154)
JUN													
12...	1815	47	7.9	8.1	354	16.0	0.210	1.81	0.06	1.98	7,400	E15000	4,090

07103990 COTTONWOOD CREEK AT MOUTH AT PIKEVIEW, CO—Continued

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Suspended sediment load, tons/d (80155)
JUN 12...	519

E -- Estimated laboratory analysis value.

WATER-QUALITY DATA DURING MICROBIOLOGICAL SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specif. conduct-ance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coli-form, M-FC 0.7u MF col/ 100 mL (31625)
JUN 25...	1110	4.0	717	21.0	E140	230

E -- Estimated laboratory analysis value.

07103990 COTTONWOOD CREEK AT MOUTH AT PIKEVIEW, CO—Continued

MISCELLANEOUS FIELD AND SUSPENDED-SEDIMENT DISCHARGE DATA, 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)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
OCT							
10...	0800	4.2	--	730	6.5	175	2.0
24...	1000	7.3	--	724	3.0	141	2.8
NOV							
05...	1145	3.6	--	759	6.5	387	3.8
06...	1030	e3.6	--	737	5.0	376	e3.7
MAR							
31...	1400	3.9	--	729	20.5	427	4.5
APR							
08...	1230	3.5	--	702	16.0	--	--
08...	1245	4.2	--	702	16.0	466	5.3
21...	1200	2.7	--	691	15.5	720	5.2
24...	1530	33	--	294	16.0	1,870	167
MAY							
12...	1015	3.7	--	714	15.5	222	2.2
12...	1145	4.2	--	712	20.5	232	2.6
30...	0930	3.7	--	667	20.0	369	3.7
JUN							
02...	1300	2.7	--	659	25.5	294	2.1
12...	1245	3.7	--	716	19.5	170	1.7
12...	1815	47	--	354	16.0	4,090	519
18...	1815	7.2	--	604	--	619	12
24...	0915	6.6	--	786	18.0	490	8.7
25...	1130	4.2	--	757	22.0	571	6.5
30...	1215	4.2	--	719	--	268	3.0
JUL							
01...	1245	2.7	--	638	--	316	2.3
08...	1030	3.7	696	--	23.0	526	5.3
18...	1400	3.2	--	703	--	255	2.2
AUG							
01...	1315	3.7	728	--	--	235	2.3
11...	1230	2.7	700	--	--	191	1.4
25...	1130	4.8	690	--	--	289	3.7
29...	1430	203	198	--	--	4,270	2,340
29...	1500	124	278	--	--	3,350	1,120
SEP							
02...	1600	5.3	759	--	--	259	3.7
09...	1130	4.8	734	--	--	235	3.0
17...	1415	4.2	732	--	--	313	3.5

e -- Estimated.

07103990 COTTONWOOD CREEK AT MOUTH AT PIKEVIEW, CO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
	OCTOBER			NOVEMBER			DECEMBER		
1	6.8	---	e10.0	3.7	---	---	5.2	---	---
2	9.9	---	e18.0	10	---	---	4.9	---	---
3	4.6	---	e2.4	4.6	---	---	5.9	---	---
4	4.4	173	2.1	3.3	---	---	5.3	---	---
5	3.9	---	e1.7	3.4	---	---	5.2	---	---
6	4.0	---	e1.5	e3.0	---	---	e5.0	---	---
7	3.9	134	1.4	e3.0	---	---	e4.5	---	---
8	4.1	---	e1.6	e3.0	---	---	e4.0	---	---
9	4.4	---	e1.9	e3.0	---	---	e4.0	---	---
10	3.8	157	1.6	e4.0	---	---	e3.5	---	---
11	e3.8	---	e0.59	e4.0	---	---	e3.0	---	---
12	3.6	163	1.6	e4.0	---	---	e3.0	---	---
13	4.1	197	2.2	e3.0	---	---	e3.5	---	---
14	3.8	---	e2.0	e3.0	---	---	e4.0	---	---
15	3.1	---	e1.6	e3.0	---	---	4.5	---	---
16	4.4	---	e2.2	e3.0	---	---	3.5	---	---
17	4.9	---	e2.4	e3.0	---	---	4.7	---	---
18	3.3	---	e1.6	e3.0	---	---	4.9	---	---
19	3.2	---	e1.4	e3.0	---	---	e5.0	---	---
20	2.8	---	e1.2	e3.0	---	---	e4.5	---	---
21	2.6	---	e1.1	e4.0	---	---	e4.0	---	---
22	3.6	---	e1.5	e4.0	---	---	e4.0	---	---
23	3.7	---	e1.4	e4.0	---	---	e4.0	---	---
24	5.3	141	2.0	e4.0	---	---	e4.0	---	---
25	4.2	---	e1.6	e5.0	---	---	e4.0	---	---
26	15	---	e40.0	e5.0	---	---	e4.0	---	---
27	12	---	e30.0	e5.0	---	---	e4.5	---	---
28	3.0	270	2.2	e5.0	---	---	e4.5	---	---
29	e3.0	---	e1.3	4.7	---	---	e4.5	---	---
30	4.7	---	e2.9	4.1	---	---	e4.5	---	---
31	3.8	---	e2.3	---	---	---	e4.0	---	---
TOTAL	147.7	---	145.29	117.8	---	---	134.1	---	---
	JANUARY			FEBRUARY			MARCH		
1	e3.5	---	---	e3.0	---	---	e4.0	---	---
2	e3.0	---	---	e3.5	---	---	e5.0	---	---
3	e3.0	---	---	e3.5	---	---	e3.0	---	---
4	e4.0	---	---	e3.0	---	---	3.5	---	---
5	e4.0	---	---	e3.0	---	---	e3.0	---	---
6	e5.0	---	---	4.0	---	---	e3.0	---	---
7	e5.0	---	---	3.4	---	---	e2.5	---	---
8	e5.5	---	---	e3.0	---	---	e5.5	---	---
9	6.1	---	---	e3.0	---	---	2.4	---	---
10	4.9	---	---	e3.0	---	---	3.6	---	---
11	e4.0	---	---	e3.0	---	---	3.9	---	---
12	4.5	---	---	e4.0	---	---	4.1	---	---
13	e5.0	---	---	e5.0	---	---	4.3	---	---
14	e5.0	---	---	4.7	---	---	5.3	---	---
15	e5.0	---	---	5.7	---	---	4.5	---	---
16	e5.0	---	---	4.5	---	---	4.4	---	---
17	e4.0	---	---	4.7	---	---	9.7	---	---
18	e4.0	---	---	5.3	---	---	15	---	---
19	e4.0	---	---	13	---	---	8.9	---	---
20	3.7	---	---	6.5	---	---	32	---	---
21	3.9	---	---	4.1	---	---	14	---	---
22	3.7	---	---	4.6	---	---	12	---	---
23	e6.0	---	---	5.3	---	---	11	---	---
24	5.0	---	---	e4.5	---	---	22	---	---
25	6.1	---	---	e4.0	---	---	12	---	---
26	5.6	---	---	e4.0	---	---	7.1	---	---
27	4.3	---	---	e4.0	---	---	6.2	---	---
28	5.5	---	---	e4.0	---	---	5.2	---	---
29	e4.0	---	---	---	---	---	5.3	---	---
30	e3.5	---	---	---	---	---	5.4	---	---
31	e3.0	---	---	---	---	---	5.8	---	---
TOTAL	138.8	---	---	123.3	---	---	233.6	---	---

07103990 COTTONWOOD CREEK AT MOUTH AT PIKEVIEW, CO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
		APRIL			MAY			JUNE	
1	4.9	---	e5.5	3.2	---	e2.3	16	1,470	235
2	4.6	---	e5.2	3.3	---	e2.4	2.7	334	2.5
3	3.8	---	e4.4	2.9	---	e2.0	2.6	---	e2.1
4	4.1	---	e4.7	4.1	---	e6.6	15	1,070	198
5	11	---	e29	2.2	---	e1.6	21	---	e125
6	8.4	---	e20	2.8	---	e1.9	3.0	---	e2.6
7	3.0	---	e4.0	2.6	---	e1.8	8.3	---	e20
8	3.5	454	4.3	2.6	---	e1.8	4.2	---	e3.1
9	3.1	---	e3.5	3.1	---	e3.3	6.3	---	e13
10	3.2	434	3.8	7.1	677	24	3.7	---	e2.6
11	3.3	491	4.4	2.8	---	e1.8	4.3	---	e2.4
12	2.9	374	2.9	2.4	227	1.5	8.6	731	53
13	3.3	284	2.6	2.4	211	1.3	6.9	---	e13
14	3.0	---	e2.1	e2.0	---	e0.99	5.3	---	e6.0
15	4.3	376	6.9	4.9	540	25	5.7	---	e6.0
16	3.6	---	e7.9	3.4	---	e6.2	5.9	370	5.9
17	3.0	---	e5.5	2.5	---	e2.7	53	2,850	1,900
18	e3.5	---	e2.4	2.4	325	2.1	7.9	878	20
19	4.6	---	e7.9	2.5	---	e1.9	33	---	e564
20	4.2	647	7.3	2.3	---	e1.8	10	---	e34
21	3.4	710	6.6	2.0	---	e1.4	6.5	---	e10
22	15	1,380	124	3.5	---	e2.5	6.0	---	e8.5
23	21	1,900	164	8.0	---	e26	5.7	---	e7.7
24	29	1,840	168	2.3	---	e2.1	5.3	---	e7.2
25	3.5	---	e5.9	3.5	---	e2.9	6.9	565	11
26	3.1	---	e3.0	4.6	---	e6.1	15	---	e81
27	3.2	---	e2.6	2.8	---	e2.8	2.5	---	e2.2
28	3.9	---	e3.1	2.5	---	e2.1	3.0	---	e3.2
29	3.4	---	e2.7	6.7	---	e26	3.2	---	e3.1
30	2.5	---	e1.9	3.4	380	3.4	3.3	281	2.5
31	---	---	---	3.8	336	3.5	---	---	---
TOTAL	173.3	---	616.1	104.6	---	171.79	280.8	---	3,344.6
		JULY			AUGUST			SEPTEMBER	
1	3.0	305	2.5	3.1	240	2.0	7.8	---	e6.8
2	2.8	286	2.2	4.1	252	2.8	13	635	40
3	2.7	291	2.1	8.5	385	15	18	---	e65
4	2.5	---	e2.6	9.9	426	22	4.1	---	e3.6
5	2.7	540	4.0	3.0	---	e1.6	3.7	---	e2.5
6	3.4	638	5.8	3.5	151	1.4	12	---	e74
7	2.4	---	e3.8	3.9	---	e1.5	12	---	e35
8	3.2	533	4.6	3.2	---	e1.3	e6.0	---	e4.7
9	2.2	---	e3.3	7.3	486	31	e5.0	---	e3.4
10	2.8	539	4.1	e4.0	---	e1.2	4.0	243	2.7
11	2.6	426	3.0	3.7	287	4.6	4.3	267	3.1
12	3.7	---	e4.6	e4.0	---	e1.1	4.8	---	e4.5
13	3.0	353	2.9	e3.0	---	e0.69	7.7	379	7.9
14	2.9	---	e3.1	e3.0	---	e0.90	7.3	361	7.2
15	3.0	420	3.4	e2.5	---	e1.0	7.1	---	e6.6
16	5.8	604	19	e2.5	---	e1.0	5.2	---	e4.6
17	2.4	476	3.1	e2.5	---	e0.76	4.0	323	3.4
18	2.2	294	1.8	4.6	---	e13	4.2	340	3.9
19	13	672	69	e4.0	---	e1.1	4.6	311	3.8
20	3.9	---	e5.4	e3.0	---	e1.4	3.4	285	2.6
21	2.7	---	e2.2	e3.0	---	e1.2	3.1	---	e2.5
22	4.0	---	e3.3	e3.0	---	e1.2	3.8	---	e3.2
23	4.4	---	e3.7	e3.0	---	e1.2	3.4	312	2.9
24	3.3	---	e2.7	5.0	380	15	3.4	---	e2.6
25	4.2	---	e3.6	4.9	325	4.6	4.3	244	2.8
26	5.2	341	7.5	5.8	220	3.4	3.4	201	1.9
27	13	---	e92	16	1,250	169	3.7	---	e2.1
28	30	3,390	942	4.4	---	e5.5	3.8	301	3.1
29	4.2	---	e6.0	30	1,100	446	4.6	---	e5.7
30	3.3	---	e2.5	36	---	e295	3.7	596	5.8
31	2.8	---	e2.0	53	---	e797	---	---	---
TOTAL	147.3	---	1,217.8	247.4	---	1,844.45	175.4	---	317.9

e Estimated.

07104000 MONUMENT CREEK AT PIKEVIEW, CO

LOCATION.--Lat 38°55'04", long 104°49'05", in NW¼SE¼ sec.18, T.13 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on right bank 0.1 mi west of Interstate 25 at Pikeview, 0.9 mi downstream from Cottonwood Creek, and 1.3 mi downstream from Woodmen Road.

DRAINAGE AREA.--204 mi^2.

PERIOD OF RECORD.--October 1938 to September 1949, January 1976 to current year. Daily record for suspended sediment available, May 1996 to September 1997 (seasonal peaks only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07104000

REVISED RECORDS.--WDR CO-90-1: 1989 (M).

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,203.26 ft above NGVD of 1929. Oct. 1938 to Sept. 1949, nonrecording gage at present site at datum 2.10 ft higher. Jan. 1976 to June 6, 1994, at present site at datum 2.00 ft higher. Since Aug. 14, 2002, supplementary water-stage recorder on left bank 15 ft downstream at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants. 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 30, 1935, reached a stage of about 14 ft, former datum, discharge unknown.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	15	14	e10	11	e16	17	45	71	14	8.7	e30
2	20	21	15	e10	12	18	18	47	23	12	8.3	e25
3	11	16	15	e11	12	14	17	44	21	12	13	50
4	11	15	14	e11	e11	12	16	44	55	12	28	22
5	11	13	13	e11	e10	12	23	41	66	11	12	20
6	11	12	e12	11	e10	11	31	35	24	11	7.1	30
7	11	12	e11	e12	e9.0	12	19	32	30	11	6.0	36
8	11	13	e11	13	e9.0	15	20	27	24	11	6.4	26
9	11	12	e11	e13	e9.0	11	20	25	23	9.3	37	e20
10	11	13	e11	e11	e10	11	22	42	20	8.8	12	e17
11	11	13	e11	e11	e11	11	19	29	17	9.3	13	e16
12	11	13	e11	e12	e13	11	17	27	18	10	12	e15
13	11	13	e12	e12	14	10	17	26	23	9.0	8.7	e17
14	11	12	e12	12	15	10	19	23	20	8.9	7.0	e18
15	11	12	e13	13	15	11	23	26	19	8.7	7.3	e17
16	12	13	14	e11	14	11	32	34	19	13	6.7	e15
17	12	13	15	e10	13	13	31	25	161	12	5.8	e14
18	e12	13	14	e10	13	31	30	25	52	8.5	11	13
19	e12	13	e13	e12	22	20	29	27	108	25	11	16
20	e12	13	e12	14	14	54	29	26	66	16	6.5	16
21	e12	12	e11	12	13	41	30	23	36	9.5	6.1	14
22	13	13	e11	14	11	25	70	19	24	8.9	6.4	14
23	14	13	e11	14	11	24	90	32	20	9.1	5.9	13
24	13	13	e11	14	e9.0	49	108	24	17	8.7	11	12
25	14	e13	e11	13	e10	47	67	23	19	10	13	12
26	24	e12	e11	12	e12	27	52	22	79	10	9.0	16
27	44	e12	e11	11	e12	22	26	19	28	36	34	13
28	19	e12	e12	11	13	16	33	16	21	61	13	12
29	17	e13	e12	10	---	15	62	18	27	17	85	14
30	15	14	e11	10	---	15	51	17	20	11	141	14
31	15	---	e11	11	---	15	---	33	---	9.1	237	---
TOTAL	436	397	377	362	338.0	610	1,038	896	1,151	422.8	788.9	567
MEAN	14.1	13.2	12.2	11.7	12.1	19.7	34.6	28.9	38.4	13.6	25.4	18.9
MAX	44	21	15	14	22	54	108	47	161	61	237	50
MIN	11	12	11	10	9.0	10	16	16	17	8.5	5.8	12
AC-FT	865	787	748	718	670	1,210	2,060	1,780	2,280	839	1,560	1,120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2003, BY WATER YEAR (WY)

MEAN	19.5	18.6	15.6	14.5	15.5	22.1	50.2	93.0	48.1	28.1	31.2	17.0
MAX	82.8	55.3	32.2	31.9	35.2	52.4	259	399	190	97.6	149	46.7
(WY)	(1985)	(1985)	(2000)	(2000)	(2000)	(1998)	(1942)	(1999)	(1999)	(1999)	(1999)	(1985)
MIN	1.90	4.27	3.95	4.40	4.06	6.67	10.2	12.7	5.20	2.01	1.11	1.74
(WY)	(1940)	(1979)	(1979)	(1979)	(1940)	(1944)	(1978)	(1946)	(1976)	(1939)	(1940)	(1939)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1939 - 2003	
ANNUAL TOTAL	5,956.8		7,383.7			
ANNUAL MEAN	16.3		20.2		31.7	
HIGHEST ANNUAL MEAN					100	1999
LOWEST ANNUAL MEAN					8.21	1978
HIGHEST DAILY MEAN	251	Jul 5	237	Aug 31	2,950	Apr 30, 1999
LOWEST DAILY MEAN	8.2	Aug 19	5.8	Aug 17	0.00	Jul 24, 1939
ANNUAL SEVEN-DAY MINIMUM	8.6	Aug 13	7.5	Aug 17	0.21	Jul 20, 1939
MAXIMUM PEAK FLOW			1,900	Aug 31	4,890	Apr 30, 1999
MAXIMUM PEAK STAGE			9.44	Aug 31	11.10	Apr 30, 1999
ANNUAL RUNOFF (AC-FT)	11,820		14,650		22,970	
10 PERCENT EXCEEDS	22		34		64	
50 PERCENT EXCEEDS	14		13		18	
90 PERCENT EXCEEDS	9.7		10		5.4	

e Estimated.

385501104483701 MONUMENT CREEK TRIBUTARY 1 NEAR PULPIT ROCK AT COLORADO SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°55'01", long 104°48'37", in NW¼SW¼ sec.17, T.13 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on left bank 0.3 mi east of Interstate 25 at Colorado Springs, 0.3 mi north of Pulpit Rock, 0.5 mi upstream from mouth, and 5.8 mi southeast of Falcon Stadium at U.S. Air Force Academy. Elevation of gage is 6,260 ft above NGVD of 1929, from topographic map.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--June to September 2003. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=385501104483701

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

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Suspended sediment concentration mg/L (80154)
JUN 25...	1050	0.03	7.5	8.2	685	23.5	E.011	<0.06	<0.02	E.02	130	170	4

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

Date	Suspended sediment load, tons/d (80155)
JUN 25...	0.00

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

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Suspended sediment concentration mg/L (80154)
JUN 05...	1310	8.4	7.3	133	11.5	0.182	0.48	0.07	0.33	E3000	E3100	237

E -- Estimated laboratory analysis value.

07104050 NORTH ROCKRIMMON CREEK ABOVE DELMONICO DRIVE AT COLORADO SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°54'56", long 104°49'35", in SW¼NE¼ sec.18, T.13 S., R.66 W., El Paso County, Hydrologic Unit 11020003, 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. Elevation of site is 6,220 feet above NGVD of 1929, from topographic map.

DRAINAGE AREA.--1.82 mi^2.

PERIOD OF RECORD.-- June to September 2003. Miscellaneous field and suspended-sediment discharge data may be available, August 1998 to current year (seasonal peaks only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07104050

REMARKS.--Annual maximum discharge data are published in the "Maximum Discharge at Crest-Stage Partial-Record Stations" section of this report.

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

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Suspended sediment concentration mg/L (80154)
JUN													
25...	1220	0.04	8.1	8.2	2,090	22.0	E.109	13.3	E.01	E.03	110	E150	2

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

Date	Suspended sediment load, tons/d (80155)
JUN	
25...	0.00

E -- Estimated laboratory analysis value.

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Suspended sediment concentration mg/L (80154)
AUG													
30...	1025	3.0	7.8	7.9	431	15.5	0.174	2.48	0.09	0.17	1,600	4,500	271

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Suspended sediment load, tons/d (80155)
AUG	
30...	2.2

MISCELLANEOUS FIELD AND SUSPENDED-SEDIMENT DISCHARGE DATA, 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)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
JUN						
06...	1430	3.8	427	--	2,360	24
06...	1431	3.8	427	--	2,330	24
25...	1220	0.04	2,090	22.0	2	0.00
AUG						
30...	1025	3.0	431	15.5	271	2.2

385204104510101 MONUMENT CREEK TRIBUTARY 2 BELOW FILLMORE STREET AT COLORADO SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°52'04", long 104°51'01", in SE¼SE¼ sec.35, T.13 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on right bank 0.5 mi southeast of Coronado High School at Colorado Springs, 0.6 mi downstream from Fillmore Street, 0.8 mi downstream from Mesa Water Treatment Plant pond, and 1.8 mi upstream from mouth. Elevation of gage is 6,340 ft above NGVD of 1929, from topographic map.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--June to September 2003. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=385204104510101

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

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Suspended sediment concentration mg/L (80154)
JUN 25...	1415	0.30	7.4	8.4	576	17.5	<0.015	1.18	<0.02	<0.04	E32	E32	2

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

Date	Suspended sediment load, tons/d (80155)
JUN 25...	0.00

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

385124104501301 MONUMENT CREEK TRIBUTARY 2 AT SONDERMANN PARK AT COLORADO SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°51'24", long 104°50'13", in SW¼SE¼ sec.1, T.13 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank at Sondermann Park at Colorado Springs, 200 ft downstream from small right-bank tributary, 0.2 mi east of Interstate 25, 0.4 mi upstream from mouth, and 1.6 mi southeast of Coronado High School. Elevation of gage is 6,060 ft above NGVD of 1929, from topographic map.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--June to September 2003. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=385124104501301

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

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/100 mL (31625)	Suspended sediment concentration mg/L (80154)
JUN 25...	1545	0.46	7.0	8.2	654	17.0	0.022	0.90	<0.02	E.03	420	530	38

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

Date	Suspended sediment load, tons/d (80155)
JUN 25...	0.05

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

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/100 mL (31625)	Suspended sediment concentration mg/L (80154)
AUG 30...	1120	1.0	8.1	8.2	538	14.0	0.018	0.95	<0.02	0.05	E1600	4,200	49

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Suspended sediment load, tons/d (80155)
AUG 30...	0.14

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

07104905 MONUMENT CREEK AT BIJOU STREET AT COLORADO SPRINGS, CO

LOCATION.--Lat 38°50'14", long 104°49'44", in NW¼NW¼ sec.18, T.14 S., R.66 W., El Paso County, Hydrologic Unit 11020003, on left bank 250 ft downstream from bridge on Bijou Street at Colorado Springs, 250 ft east of Interstate 25, and 0.7 mi upstream from mouth.

DRAINAGE AREA.--235 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April to September 2003. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07104905

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,980 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and those above 300 ft^3/s, which are poor. Natural flow of stream affected by storage reservoirs, transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,850 ft^3/s, Aug. 31, 2003, gage height, 8.19 ft, from rating curve extended above 309 ft^3/s; minimum daily, 4.0 ft^3/s, July 21, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period April to September, 2,850 ft^3/s, Aug. 31, gage height, 8.19 ft, from rating curve extended above 309 ft^3/s; minimum daily, 4.0 ft^3/s, July 21.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e20	56	69	16	16	36
2	---	---	---	---	---	---	e20	56	24	12	19	44
3	---	---	---	---	---	---	19	54	32	13	25	76
4	---	---	---	---	---	---	18	53	87	16	31	20
5	---	---	---	---	---	---	37	52	99	12	12	21
6	---	---	---	---	---	---	59	44	33	14	9.8	31
7	---	---	---	---	---	---	20	42	45	15	9.1	35
8	---	---	---	---	---	---	23	39	28	12	10	20
9	---	---	---	---	---	---	25	40	26	8.7	35	20
10	---	---	---	---	---	---	22	56	23	8.5	8.8	20
11	---	---	---	---	---	---	20	29	19	9.4	10	20
12	---	---	---	---	---	---	19	33	28	15	17	22
13	---	---	---	---	---	---	20	32	27	15	7.5	22
14	---	---	---	---	---	---	20	30	22	10	7.0	22
15	---	---	---	---	---	---	34	40	16	14	6.5	e20
16	---	---	---	---	---	---	49	45	16	14	6.2	e17
17	---	---	---	---	---	---	36	28	266	11	6.0	e16
18	---	---	---	---	---	---	28	30	76	9.7	9.3	e15
19	---	---	---	---	---	---	39	30	135	20	8.7	e17
20	---	---	---	---	---	---	37	33	52	17	7.1	e17
21	---	---	---	---	---	---	38	31	26	4.0	6.4	e17
22	---	---	---	---	---	---	111	29	25	4.1	5.8	18
23	---	---	---	---	---	---	168	45	29	5.1	6.0	16
24	---	---	---	---	---	---	170	33	28	7.0	7.5	16
25	---	---	---	---	---	---	67	36	41	5.7	17	16
26	---	---	---	---	---	---	55	26	86	5.8	11	21
27	---	---	---	---	---	---	37	22	33	32	52	18
28	---	---	---	---	---	---	47	20	30	43	28	14
29	---	---	---	---	---	---	73	21	40	13	120	14
30	---	---	---	---	---	---	60	20	28	9.4	89	16
31	---	---	---	---	---	---	---	55	---	14	565	---
TOTAL	---	---	---	---	---	---	1,391	1,160	1,489	405.4	1,168.7	677
MEAN	---	---	---	---	---	---	46.4	37.4	49.6	13.1	37.7	22.6
MAX	---	---	---	---	---	---	170	56	266	43	565	76
MIN	---	---	---	---	---	---	18	20	16	4.0	5.8	14
AC-FT	---	---	---	---	---	---	2,760	2,300	2,950	804	2,320	1,340

e Estimated.

07104905 MONUMENT CREEK AT BIJOU STREET AT COLORADO SPRINGS, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 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=07104905

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT: April to September 2003 (seasonal records only).

EXTREMES FOR PERIOD OF RECORD.--
SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 5,070 mg/L, June 17, 2003; minimum daily mean, 6 mg/L, July 22, 2003.
SUSPENDED-SEDIMENT DISCHARGE (seasonal only): Maximum daily, 14,100 tons, June 17, 2003; minimum daily, 0.06 ton, July 22, 2003.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATION (seasonal only): Maximum daily mean, 5,070 mg/L, June 17; minimum daily mean, 6 mg/L, July 22.
SUSPENDED-SEDIMENT DISCHARGE (seasonal only): Maximum daily, 14,100 tons, June 17; minimum daily, 0.06 ton, July 22.

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

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	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)
NOV													
05...	1310	18	9.9	8.4	789	9.0	83.1	15.5	1.00	140	E.009	2.65	0.11
DEC													
05...	1210	13	11.2	8.4	785	3.5	90.3	17.7	1.00	160	E.008	2.96	0.13
FEB													
12...	1230	20	11.7	8.5	914	0.0	90	18	1.0	173	E.011	3.39	0.20
APR													
30...	1140	61	8.5	8.1	427	15.0	41	7.3	1.37	75.5	0.017	1.20	0.24
JUL													
22...	1250	4.5	6.5	8.3	832	28.5	92.1	18.3	1.17	208	E.013	1.72	0.10

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

Date	Phosphorus, water, unfltrd mg/L (00665)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Arsenic water, fltrd, ug/L (01000)	Arsenic water unfltrd ug/L (01002)	Boron, water, fltrd, ug/L (01020)	Boron, water, unfltrd recoverable, ug/L (01022)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, fltrd, ug/L (01030)	Chromium, water, unfltrd recoverable, ug/L (01034)
NOV													
05...	0.229	<2.0	--	140	140	1.5	1.9	93	92	<0.10	0.27	2.0	2.3
DEC													
05...	0.284	<2.0	--	140	E120	1.6	2.2	92	85	E.13	0.33	<1.0	2.1
FEB													
12...	0.367	--	--	E84	60	1.33	E1	106	93.1	0.045	0.077	<0.8	E.6
APR													
30...	0.605	--	40	--	44	--	3	53	52	--	--	--	--
JUL													
22...	0.111	--	280	--	380	--	<2	81	97	--	--	--	--

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

Date	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recoverable, ug/L (01042)	Cyanide water unfltrd mg/L (00720)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recoverable, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recoverable, ug/L (01051)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, unfltrd recoverable, ug/L (01055)	Mercury water, fltrd, ug/L (71890)	Mercury water, unfltrd recoverable, ug/L (71900)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd recoverable, ug/L (01067)
NOV													
05...	E1.6	5.8	<0.01	<10.0	2,030	E.21	2.9	2.0	54	<0.018	<0.018	5.3	6.3
DEC													
05...	3.3	11	<0.01	<10.0	3,270	<0.20	4.5	<2.0	81	<0.018	E.009	3.2	4.5
FEB													
12...	2.55	6.27	<0.009	<10	2,940	0.12	3.94	2.71	82.9	<0.018	E.011	4.46	6.98
APR													
30...	1.41	9.79	--	--	--	--	8.36	1.56	195	--	--	--	4.38
JUL													
22...	2.40	4.13	--	--	--	--	0.19	5.87	7.8	--	--	--	4.66

07104905 MONUMENT CREEK AT BIJOU STREET AT COLORADO SPRINGS, CO—Continued

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

Date	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd recoverable, ug/L (01077)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recoverable, ug/L (01092)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
NOV 05...	8.0	7.8	0.04	<0.04	<6.0	16	113	5.5
DEC 05...	2.0	10	0.15	<0.04	<6.0	E20	253	8.9
FEB 12...	8.45	7.39	<0.20	<0.16	5.8	22.3	267	14
APR 30...	3.11	2.93	--	--	3.1	40.5	511	84
JUL 22...	8.71	8.84	--	--	2.2	3.2	5	0.06

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

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	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)
APR 23...	1600	293	--	7.7	228	7.5	21	3.6	0.40	32.3	0.133	0.686	0.11
AUG 27...	2210	149	6.7	7.9	244	20.5	26.9	4.00	0.28	39.2	0.155	1.52	0.04

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Phosphorus, water, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Arsenic water unfltrd ug/L (01002)	Boron, water, fltrd, ug/L (01020)	Boron, water, unfltrd recoverable, ug/L (01022)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recoverable, ug/L (01042)	Lead, water, unfltrd recoverable, ug/L (01051)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, unfltrd recoverable, ug/L (01055)	Nickel, water, unfltrd recoverable, ug/L (01067)	Selenium, water, fltrd, ug/L (01145)
APR 23...	2.17	1,200	1,400	9	30	35	2.01	44.7	64.9	2.99	1,380	30.0	1.52
AUG 27...	2.39	24,000	24,000	6	21	27	1.94	50.7	57.2	1.21	1,100	24.7	2.38

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Selenium, water, unfltrd ug/L (01147)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recoverable, ug/L (01092)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	9H-Fluorene, water, unfltrd ug/L (34381)	Acenaphthene, water, unfltrd ug/L (34205)	Acenaphthylene, water, unfltrd ug/L (34200)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Anthracene, water, unfltrd ug/L (34220)	Atrazine, water, fltrd, ug/L (39632)
APR 23...	4.18	3.4	280	<0.006	<0.0060	E.3	E.2	E.2	<0.015	<0.004	<0.0046	E.4	0.0099
AUG 27...	3.70	3.2	241	<0.006	E.005	E.0608	E.0564	<2	<0.006	<0.004	<0.0046	E.1480	E.006

07104905 MONUMENT CREEK AT BIJOU STREET AT COLORADO SPRINGS, CO—Continued

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Azinphos-methyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Benzo[a]anthracene, water, unfltrd ug/L (34526)	Benzo[a]pyrene, water, unfltrd ug/L (34247)	Benzo[b]fluoranthene water unfltrd ug/L (34230)	Benzo[g,h,i]perylene, water, unfltrd ug/L (34521)	Benzo[k]fluoranthene water unfltrd ug/L (34242)	Butylate, water, fltrd, ug/L (04028)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbofuran, water, fltrd 0.7u GF ug/L (82674)	Chlorpyrifos water, fltrd, ug/L (38933)	Chrysene, water, unfltrd ug/L (34320)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)
APR 23...	<0.0500	E.0080	E1	E2	E3	E1	E1.0	<0.002	E.540	<0.0200	<0.0050	E2	<0.0060
AUG 27...	<0.05	<0.010	E.4940	E.7530	E1	E.4580	E.4490	<0.002	E.504	<0.020	<0.030	E.8110	<0.006

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Cyanazine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon, water, fltrd, ug/L (39572)	Dibenzo[a,h]anthracene, wat unf ug/L (34556)	Dieldrin, water, fltrd, ug/L (39381)	Disulfoton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethalfluralin, water, fltrd 0.7u GF ug/L (82663)	Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Desulfinyl-fipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)
APR 23...	<0.0180	<0.0030	<0.0040	0.0315	E.4	<0.0048	<0.0210	<0.0020	<0.0090	<0.0050	<0.0090	<0.0050	<0.0050
AUG 27...	<0.018	<0.0030	<0.004	E.044	<3	<0.0048	<0.021	<0.0020	<0.009	<0.005	E.004	<0.005	<0.005

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Fipronil, water, fltrd, ug/L (62166)	Fluoranthene water unfltrd ug/L (34376)	Fonofos water, fltrd, ug/L (04095)	Indeno[1,2,3-cd]pyrene, water, unfltrd ug/L (34403)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Napropamide, water, fltrd 0.7u GF ug/L (82684)	Nitrobenzene water unfltrd ug/L (34447)
APR 23...	<0.0070	4	<0.0027	E1	<0.0040	<0.0350	<0.0400	<0.0060	<0.0130	<0.0060	<0.0016	<0.0070	<2
AUG 27...	<0.007	E1	<0.0027	E.5410	<0.0040	<0.035	E.046	<0.006	<0.013	<0.006	<0.0016	<0.007	<2

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	p,p'-DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)	Pebulate, water, fltrd 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phenanthrene, water, unfltrd ug/L (34461)	Phorate water fltrd 0.7u GF ug/L (82664)	Prometon, water, fltrd, ug/L (04037)	Pronamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Pyrene, water, unfltrd ug/L (34469)	Simazine, water, fltrd, ug/L (04035)
APR 23...	<0.0025	<0.010	<0.004	E.021	2	<0.0110	0.0170	<0.0041	<0.0100	<0.0110	<0.0230	3	<0.005
AUG 27...	<0.0025	<0.010	<0.004	<0.022	E.5780	<0.011	E.08	<0.040	<0.010	<0.011	<0.023	E1	<0.005

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Terbacil, water, fltrd 0.7u GF ug/L (82665)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Thiobencarb water fltrd 0.7u GF ug/L (82681)	Triallate, water, fltrd 0.7u GF ug/L (82678)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	Naphthalene, water, unfltrd ug/L (34696)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
APR 23...	<0.0300	<0.0340	<0.0170	<0.0048	<0.0023	<0.0090	E.2	--	--
AUG 27...	<0.016	<0.034	<0.017	<0.0048	<0.0023	<0.009	E.0673	4,230	1,700

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

07104905 MONUMENT CREEK AT BIJOU STREET AT COLORADO SPRINGS, CO—Continued

MISCELLANEOUS FIELD AND SUSPENDED-SEDIMENT DISCHARGE DATA, 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)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
NOV						
05...	1310	18	789	9.0	113	5.5
DEC						
05...	1210	13	785	3.5	253	8.9
FEB						
12...	1230	20	914	0.0	267	14
APR						
03...	1315	18	753	19.0	108	5.2
09...	1345	28	696	18.5	171	13
17...	1440	35	540	--	--	--
23...	1300	56	471	10.5	548	83
24...	1530	149	280	13.5	1,390	559
30...	1140	61	427	15.0	511	84
MAY						
05...	1405	54	433	--	--	--
15...	1200	31	526	18.0	100	8.4
JUN						
02...	1620	26	583	--	--	--
05...	1500	213	--	--	2,030	1,170
11...	1015	26	665	20.0	125	8.8
26...	1715	37	456	22.0	169	17
JUL						
22...	1250	4.5	832	28.5	5	0.06
30...	1355	11	669	28.0	81	2.4
AUG						
25...	1235	13	690	--	--	--
27...	2210	149	244	20.5	4,230	1,700
27...	2215	149	244	20.5	4,230	1,700
SEP						
22...	1100	20	680	15.0	110	5.9

07104905 MONUMENT CREEK AT BIJOU STREET AT COLORADO SPRINGS, CO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/day)
		APRIL			MAY			JUNE	
1	e20	---	e3.5	56	512	78	69	1,510	873
2	e20	---	e3.5	56	513	78	24	---	e18
3	19	107	3.4	54	572	83	32	428	53
4	18	103	4.9	53	492	70	87	2,190	1,060
5	37	---	e68	52	---	e41	99	1,670	584
6	59	688	190	44	185	22	33	593	55
7	20	148	9.6	42	246	29	45	638	96
8	23	---	e11	39	285	30	28	162	12
9	25	163	11	40	258	32	26	---	e24
10	22	---	e7.4	56	---	e201	23	320	22
11	20	127	6.9	29	437	34	19	155	8.2
12	19	144	7.5	33	208	18	28	277	44
13	20	113	6.0	32	164	14	27	342	30
14	20	108	5.9	30	147	12	22	---	e15
15	34	---	e29	40	232	33	16	108	4.5
16	49	440	69	45	350	57	16	150	6.3
17	36	248	24	28	163	12	266	5,070	14,100
18	28	199	15	30	129	11	76	---	e296
19	39	242	28	30	152	13	135	1,790	2,020
20	37	---	e22	33	---	e35	52	1,670	443
21	38	292	32	31	443	37	26	811	58
22	111	2,720	2,330	29	291	22	25	381	26
23	168	2,520	1,970	45	434	94	29	245	19
24	170	1,700	894	33	394	131	28	---	e18
25	67	1,200	226	36	508	314	41	480	74
26	55	612	91	26	133	9.8	86	1,050	535
27	37	476	48	22	78	4.7	33	177	16
28	47	545	71	20	70	3.9	30	269	22
29	73	788	156	21	207	20	40	---	e39
30	60	567	92	20	---	e19	28	---	e22
31	---	---	---	55	1,310	431	---	---	---
TOTAL	1,391	---	6,435.6	1,160	---	1,989.4	1,489	---	20,593.0
		JULY			AUGUST			SEPTEMBER	
1	16	---	e11	16	248	10	36	---	e17
2	12	246	8.1	19	305	40	44	452	139
3	13	165	5.5	25	---	e28	76	---	e131
4	16	---	e5.2	31	585	102	20	---	e15
5	12	109	3.6	12	167	5.4	21	232	14
6	14	227	9.1	9.8	75	2.0	31	229	46
7	15	348	14	9.1	34	0.84	35	---	e31
8	12	282	9.1	10	---	e1.9	20	104	5.7
9	8.7	---	e6.1	35	1,490	465	20	100	5.4
10	8.5	---	e5.9	8.8	206	5.6	20	119	6.5
11	9.4	---	e6.5	10	---	e3.8	20	96	5.2
12	15	---	e10	17	165	11	22	---	e4.7
13	15	---	e4.7	7.5	---	e0.96	22	82	4.9
14	10	---	e3.1	7.0	31	0.59	22	93	5.6
15	14	---	e8.8	6.5	24	0.43	e20	---	e7.1
16	14	---	e3.6	6.2	26	0.44	e17	---	e11
17	11	---	e1.8	6.0	---	e0.43	e16	---	e9.3
18	9.7	---	e1.6	9.3	---	e3.5	e15	---	e6.3
19	20	---	e52	8.7	179	4.7	e17	---	e7.7
20	17	529	101	7.1	87	1.7	e17	---	e6.8
21	4.0	---	e0.11	6.4	44	0.77	e17	---	e7.1
22	4.1	6	0.06	5.8	---	e0.63	18	105	5.2
23	5.1	---	e0.08	6.0	---	e0.71	16	74	3.2
24	7.0	---	e0.12	7.5	49	1.1	16	87	3.8
25	5.7	---	e0.11	17	153	9.5	16	106	4.6
26	5.8	---	e0.14	11	75	2.1	21	133	7.6
27	32	624	115	52	829	346	18	---	e5.6
28	43	1,240	440	28	267	32	14	93	3.4
29	13	216	12	120	1,420	1,900	14	103	4.0
30	9.4	82	2.1	89	1,240	727	16	129	5.5
31	14	138	5.3	565	2,000	8,240	---	---	---
TOTAL	405.4	---	845.72	1,168.7	---	11,948.10	677	---	529.2

e Estimated.

07104905 MONUMENT CREEK AT BIJOU STREET AT COLORADO SPRINGS, CO—Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--April to September 2003 (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07104905

GAGE.--Tipping-bucket rain gage with satellite telemetry.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.77 inches, Aug. 30, 2003.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation for period April to September, 1.77 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	---	---	---	---	---	---	---	0.01	0.16	0.00	0.00	0.00
2	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.20
3	---	---	---	---	---	---	0.00	0.01	0.11	0.00	0.05	0.20
4	---	---	---	---	---	---	0.00	0.00	0.44	0.00	0.13	0.01
5	---	---	---	---	---	---	0.19	0.01	0.47	0.00	0.01	0.03
6	---	---	---	---	---	---	0.26	0.00	0.11	0.00	0.00	0.05
7	---	---	---	---	---	---	0.00	0.00	0.20	0.00	0.00	0.08
8	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
9	---	---	---	---	---	---	0.00	0.14	0.34	0.00	0.04	0.00
10	---	---	---	---	---	---	0.00	0.22	0.02	0.00	0.00	0.00
11	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.23	0.00
12	---	---	---	---	---	---	0.00	0.00	0.05	0.01	0.00	0.00
13	---	---	---	---	---	---	0.00	0.00	0.01	0.00	0.00	0.12
14	---	---	---	---	---	---	0.00	0.00	0.44	0.01	0.00	0.01
15	---	---	---	---	---	---	0.03	0.15	0.00	0.16	0.00	0.00
16	---	---	---	---	---	---	0.00	0.01	0.00	0.07	0.00	0.00
17	---	---	---	---	---	---	0.00	0.00	0.09	0.00	0.03	0.00
18	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.05	0.00
19	---	---	---	---	---	---	0.04	0.03	0.96	0.17	0.00	0.00
20	---	---	---	---	---	---	0.01	0.00	0.01	0.00	0.00	0.00
21	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
22	---	---	---	---	---	---	0.62	0.00	0.00	0.00	0.00	0.00
23	---	---	---	---	---	---	0.15	0.00	0.00	0.00	0.00	0.00
24	---	---	---	---	---	---	0.16	1.00	0.00	0.00	0.01	0.00
25	---	---	---	---	---	---	0.00	0.11	0.63	0.00	0.01	0.00
26	---	---	---	---	---	---	0.00	0.03	0.14	0.34	0.00	0.00
27	---	---	---	---	---	---	0.00	0.00	0.00	0.08	0.51	0.00
28	---	---	---	---	---	---	0.00	0.00	0.25	0.53	0.22	0.00
29	---	---	---	---	---	---	0.00	0.02	0.10	0.01	0.00	0.00
30	---	---	---	---	---	---	0.00	0.01	0.00	0.01	1.77	0.00
31	---	---	---	---	---	---	---	0.22	---	0.00	0.16	---
TOTAL	---	---	---	---	---	---	---	1.97	4.53	1.39	3.22	0.70
MAX	---	---	---	---	---	---	---	1.00	0.96	0.53	1.77	0.20

07105000 BEAR CREEK NEAR COLORADO SPRINGS, CO

LOCATION.--Lat 38°49'21", long 104°53'17", in NE¼NE¼ sec.21, T.14 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on left bank 30 ft east of 26th Street, 0.6 mi southwest of Bear Creek Nature Center, 3.4 mi upstream from mouth, and 3.5 mi west of courthouse in Colorado Springs.

DRAINAGE AREA.--6.89 mi^2.

PERIOD OF RECORD.--May 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=07105000

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,520 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for July 10 through September 11 and estimated daily discharges, which are poor. 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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.55	0.62	0.57	0.44	0.63	0.72	1.5	2.0	1.0	0.75	0.50	1.1
2	0.62	0.64	0.57	0.46	0.63	0.74	1.5	1.9	1.1	0.72	0.58	0.91
3	0.59	0.60	0.57	0.48	0.58	0.74	1.6	1.9	1.2	0.65	0.59	0.92
4	0.58	0.61	0.58	0.49	0.56	0.75	1.6	1.9	1.4	0.65	0.63	0.89
5	0.57	0.66	0.58	0.49	0.65	0.74	1.6	1.8	1.8	0.67	0.65	0.80
6	0.59	0.70	0.58	0.50	0.65	0.74	1.6	1.6	1.8	0.68	0.64	0.79
7	0.59	0.70	0.58	0.53	e0.65	0.78	1.5	1.6	1.7	0.60	0.62	0.76
8	0.59	0.70	0.58	0.54	0.64	0.79	1.4	1.5	1.8	0.55	0.64	0.72
9	0.62	0.70	0.58	0.54	e0.59	0.81	1.5	1.5	1.8	0.55	0.64	0.64
10	0.64	0.70	0.58	0.57	e0.61	0.82	1.6	1.5	1.7	0.57	0.58	0.61
11	0.64	0.69	0.57	0.58	0.64	0.85	1.8	1.4	1.7	0.67	0.62	0.58
12	0.65	0.64	0.54	0.58	0.66	0.88	1.8	1.4	1.7	0.72	0.73	0.57
13	0.67	0.69	0.55	0.59	0.68	0.92	1.9	1.4	1.7	0.69	0.66	0.57
14	0.63	0.64	0.54	0.59	0.73	0.94	2.0	1.3	1.7	0.58	0.67	0.58
15	0.59	0.63	0.54	0.59	0.70	0.98	2.1	1.4	1.7	0.61	0.65	0.55
16	0.58	0.60	0.53	0.59	0.70	0.98	2.1	1.4	1.7	0.69	0.63	0.52
17	0.59	0.61	0.51	0.60	0.70	0.98	2.2	1.3	1.7	0.60	0.65	0.50
18	0.58	0.60	0.51	0.57	0.70	0.92	2.1	1.2	1.7	0.58	0.67	0.52
19	0.58	0.60	0.52	0.62	0.70	0.81	2.1	1.3	1.8	0.58	0.64	0.53
20	0.60	0.60	0.54	0.58	0.68	1.00	2.0	1.3	2.0	0.59	0.61	0.50
21	0.59	0.61	0.58	0.58	0.69	1.1	1.9	1.1	1.6	0.55	0.60	0.51
22	0.59	0.62	0.55	0.58	0.70	1.0	1.9	1.1	1.4	0.50	0.62	0.55
23	0.64	0.60	0.53	0.59	0.71	1.1	1.9	1.1	1.2	0.52	0.64	0.52
24	0.60	0.59	0.53	0.58	e0.70	1.6	1.9	1.2	1.1	0.48	0.69	0.51
25	0.59	0.58	0.53	0.58	0.77	1.8	1.9	1.2	1.1	0.48	0.67	0.54
26	0.61	0.47	0.50	0.59	0.74	1.8	2.1	1.1	1.3	0.50	0.67	0.52
27	0.72	0.50	0.50	0.61	0.68	1.8	2.2	1.0	1.1	0.52	0.73	0.52
28	0.70	0.63	0.52	0.61	0.70	1.5	2.2	0.95	0.92	0.46	0.81	0.53
29	0.68	0.58	0.47	0.62	---	1.4	2.2	0.95	0.99	0.55	0.81	0.53
30	0.61	0.55	0.41	0.63	---	1.4	2.1	0.96	0.90	0.71	1.1	0.54
31	0.62	---	0.46	0.63	---	1.4	---	1.0	---	0.50	1.3	---
TOTAL	19.00	18.66	16.70	17.53	18.77	32.79	55.8	42.26	44.31	18.47	21.24	18.83
MEAN	0.61	0.62	0.54	0.57	0.67	1.06	1.86	1.36	1.48	0.60	0.69	0.63
MAX	0.72	0.70	0.58	0.63	0.77	1.8	2.2	2.0	2.0	0.75	1.3	1.1
MIN	0.55	0.47	0.41	0.44	0.56	0.72	1.4	0.95	0.90	0.46	0.50	0.50
AC-FT	38	37	33	35	37	65	111	84	88	37	42	37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2003, BY WATER YEAR (WY)

MEAN	1.78	1.54	1.35	1.23	1.21	1.40	2.55	7.01	4.88	2.61	2.71	1.89
MAX	3.16	2.41	2.12	1.87	1.80	2.15	6.13	22.0	17.0	7.55	6.77	4.39
(WY)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(1999)	(1999)	(1997)	(1995)	(1999)	(1997)
MIN	0.37	0.14	0.17	0.30	0.36	0.52	0.31	0.80	0.47	0.30	0.43	0.30
(WY)	(1993)	(1993)	(1993)	(1993)	(1993)	(1993)	(1993)	(2002)	(1993)	(1993)	(2002)	(1992)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1992 - 2003	
ANNUAL TOTAL	242.59		324.36			
ANNUAL MEAN	0.66		0.89		2.59	
HIGHEST ANNUAL MEAN					5.30	1999
LOWEST ANNUAL MEAN					0.41	1993
HIGHEST DAILY MEAN	1.6	Apr 14	2.2	Apr 17	89	Apr 30, 1999
LOWEST DAILY MEAN	0.24	Jul 1	0.41	Dec 30	0.02	Sep 18, 1992
ANNUAL SEVEN-DAY MINIMUM	0.31	Jun 25	0.46	Dec 29	0.05	Nov 7, 1992
MAXIMUM PEAK FLOW			3.4	Jun 19	a185	Apr 30, 1999
MAXIMUM PEAK STAGE			1.19	Jun 19	b2.80	Apr 30, 1999
ANNUAL RUNOFF (AC-FT)	481		643		1,870	
10 PERCENT EXCEEDS	0.96		1.7		5.0	
50 PERCENT EXCEEDS	0.63		0.65		1.6	
90 PERCENT EXCEEDS	0.39		0.53		0.50	

e Estimated.
a From rating curve extended above 122 ft^3/s.
b From floodmarks.

07105000 BEAR CREEK NEAR COLORADO SPRINGS, CO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June to September 2003. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07105000

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

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Suspended sediment concentration mg/L (80154)
JUN 25...	1655	1.1	9.0	7.4	92	11.5	<0.015	E.03	<0.02	<0.04	E2	E1	3

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

Date	Suspended sediment load, tons/d (80155)
JUN 25...	0.01

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

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)
OCT 09...	1550	0.65	112	10.0
NOV 19...	1600	0.66	99	3.0
DEC 17...	1405	0.51	96	2.5
FEB 12...	1610	0.68	118	1.0
13...	1110	0.65	93	2.0
MAR 26...	1400	1.8	107	5.0
APR 28...	1550	2.0	86	9.0
MAY 23...	1505	1.1	95	10.5
JUL 15...	1540	0.59	114	15.0
AUG 07...	1110	0.64	108	14.5
SEP 11...	1815	0.58	110	11.0

384909104504401 BEAR CREEK ABOVE 8th STREET AT COLORADO SPRINGS, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 38°49'09", long 104°50'44", in SW¼NW¼ sec.24, T.14 S., R.67 W., El Paso County, Hydrologic Unit 11020003, in Bear Creek Regional Park, on left bank 150 ft upstream from small right-bank tributary, 500 ft west of 8th Street at Colorado Springs, 0.3 mi southeast of Penrose Stadium, 0.6 mi west of Interstate 25, and 0.7 mi upstream from mouth.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--June to September 2003. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=384909104504401

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	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, unfltrd mg/L (00665)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Suspended sediment concentration mg/L (80154)
JUN 25...	1810	1.0	7.8	7.9	415	15.5	<0.015	0.41	<0.02	E.03	140	170	4

WATER-QUALITY DATA DURING STORMWATER-RUNOFF SAMPLING, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Suspended sediment load, tons/d (80155)
JUN 25...	0.01

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

07105490 CHEYENNE CREEK AT EVANS AVENUE AT COLORADO SPRINGS, CO

LOCATION.--Lat 38°47'26", Long 104°51'49", in SW¼NW¼ sec.35, T.14 S., R.67 W., El Paso County, Hydrologic Unit 11020003, on right bank 23 ft upstream from Evans Avenue at Colorado Springs, 30 ft downstream from the confluence of North and South Cheyenne Creeks, and 3.1 mi upstream from the mouth.

DRAINAGE AREA.--21.7 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 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=07105490

REVISED RECORDS.--WDR CO-93-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,280 ft above NGVD of 1929, from topographic map. Prior to June 13, 2000, at datum 1.00 ft higher.

REMARKS.--Records good except for July 8-9 and estimated daily discharges, which are poor. Natural flow of stream affected by several small reservoirs and diversions. 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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.48	0.49	0.51	0.42	0.41	0.43	2.1	5.0	5.1	4.9	1.0	1.5
2	0.46	0.51	0.52	0.44	0.41	0.45	3.2	7.0	3.7	4.4	1.0	0.82
3	0.47	0.50	0.54	0.45	0.42	0.44	4.1	7.1	3.7	4.3	1.1	1.2
4	0.45	0.52	0.54	0.45	0.41	0.45	2.5	7.2	2.1	6.5	1.1	1.4
5	0.44	0.54	0.54	0.45	0.41	0.45	1.7	6.7	4.9	10	1.1	1.1
6	0.45	0.54	0.55	0.45	0.40	0.46	1.6	6.8	6.1	10	1.2	1.1
7	0.47	0.51	0.54	0.45	e0.40	0.47	1.4	7.5	6.0	9.7	1.2	1.5
8	0.49	0.51	0.54	0.45	0.40	0.47	1.3	8.2	7.8	8.0	1.2	1.5
9	0.48	0.48	0.54	0.44	0.41	0.47	1.4	8.0	8.8	0.69	1.1	1.2
10	0.45	0.49	0.51	0.44	0.41	0.47	1.3	8.4	9.0	1.5	1.1	1.0
11	0.45	0.49	0.49	0.42	0.41	0.48	1.3	8.0	8.7	1.7	1.8	0.93
12	0.48	0.50	0.50	0.43	0.40	0.50	1.6	7.8	6.6	1.7	1.3	0.79
13	0.49	0.52	0.49	0.42	0.41	0.49	2.9	7.7	2.5	1.9	0.88	0.78
14	0.49	0.49	0.47	0.41	0.41	0.49	3.3	7.8	2.8	1.7	0.86	0.81
15	0.50	0.50	0.46	0.41	0.41	0.49	3.1	8.1	2.7	4.1	0.88	0.77
16	0.50	0.54	0.46	0.41	0.41	0.43	4.1	8.6	2.8	1.0	0.90	0.80
17	0.51	0.54	0.46	0.42	0.45	0.36	6.7	8.9	4.2	0.53	0.87	0.82
18	0.51	0.50	0.45	0.41	0.45	0.38	6.9	7.4	3.0	0.74	0.91	0.82
19	0.51	0.50	0.45	0.42	0.45	0.40	6.9	6.7	e5.0	0.76	0.82	0.82
20	0.52	0.51	0.45	0.42	0.46	0.42	6.3	6.9	e9.0	0.81	0.76	0.83
21	0.53	0.53	0.45	0.41	0.45	0.42	5.9	6.5	5.9	0.76	0.69	0.78
22	0.55	0.54	0.45	0.41	0.45	0.44	4.7	6.4	2.3	0.88	0.68	0.81
23	0.58	0.54	0.45	0.41	0.45	0.45	2.9	6.1	5.5	0.81	0.74	0.78
24	0.56	0.54	0.45	0.41	e0.44	0.56	1.7	5.5	11	0.92	0.67	0.77
25	0.52	0.54	0.45	0.41	e0.42	1.3	1.4	5.8	13	1.2	0.65	0.74
26	0.46	0.53	0.45	0.42	0.41	3.1	1.4	6.0	10	1.3	0.67	0.70
27	0.54	0.51	0.44	0.42	0.41	5.2	1.3	5.2	7.5	2.0	0.68	0.70
28	0.51	0.50	0.45	0.43	0.41	4.4	2.1	4.4	5.1	1.2	0.73	0.82
29	0.47	0.50	0.45	0.41	---	3.7	1.9	1.8	5.1	1.2	0.70	0.95
30	0.47	0.49	0.45	0.41	---	3.4	1.7	2.8	6.4	1.5	0.76	0.60
31	0.46	---	0.44	0.41	---	2.8	---	2.8	---	0.97	1.1	---
TOTAL	15.25	15.40	14.94	13.16	11.78	34.77	88.7	203.1	176.3	87.67	29.15	28.14
MEAN	0.49	0.51	0.48	0.42	0.42	1.12	2.96	6.55	5.88	2.83	0.94	0.94
MAX	0.58	0.54	0.55	0.45	0.46	5.2	6.9	8.9	13	10	1.8	1.5
MIN	0.44	0.48	0.44	0.41	0.40	0.36	1.3	1.8	2.1	0.53	0.65	0.60
AC-FT	30	31	30	26	23	69	176	403	350	174	58	56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2003, BY WATER YEAR (WY)

MEAN	3.61	3.15	2.45	2.32	2.17	2.59	8.80	31.2	23.8	7.66	10.9	4.39
MAX	7.31	5.56	5.15	4.54	5.20	7.34	25.5	86.4	93.1	30.5	39.7	11.2
(WY)	(1997)	(1998)	(1998)	(1996)	(1998)	(1998)	(1999)	(1994)	(1995)	(1995)	(1999)	(1997)
MIN	0.49	0.51	0.46	0.42	0.42	0.53	0.81	0.47	0.37	0.59	0.40	0.51
(WY)	(2003)	(2003)	(1993)	(2003)	(2003)	(1993)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1992 - 2003	
ANNUAL TOTAL	239.15		718.36			
ANNUAL MEAN	0.66		1.97		8.89	
HIGHEST ANNUAL MEAN					21.8	1995
LOWEST ANNUAL MEAN					0.72	2002
HIGHEST DAILY MEAN	15	Jul 2	13	Jun 25	453	Apr 30, 1999
LOWEST DAILY MEAN	0.28	Jul 20	0.36	Mar 17	0.10	Apr 8, 1993
ANNUAL SEVEN-DAY MINIMUM	0.31	Jun 7	0.40	Feb 6	0.23	Mar 6, 1993
MAXIMUM PEAK FLOW			57	Jul 15	a595	Jun 10, 1997
MAXIMUM PEAK STAGE			2.14	Jul 15	b3.51	Jun 10, 1997
ANNUAL RUNOFF (AC-FT)	474		1,420		6,440	
10 PERCENT EXCEEDS	1.0		6.5		18	
50 PERCENT EXCEEDS	0.50		0.69		3.1	
90 PERCENT EXCEEDS	0.37		0.42		0.51	

e Estimated.
a From rating curve extended above 437 ft^3/s.
b Datum then in use.

07105490 CHEYENNE CREEK AT EVANS AVENUE AT COLORADO SPRINGS, CO—Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--April 2002 to current year (seasonal records only). For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=07105490

GAGE.--Tipping-bucket rain gage with satellite telemetry.

REMARKS.--Records for June 19 are less accurate than the rest of the published records.

EXTREMES FOR PERIOD OF RECORD (seasonal only).--Maximum daily precipitation, 1.02 inches, July 2, 2002.

EXTREMES FOR CURRENT YEAR (seasonal only).--Maximum daily precipitation, 0.76 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	0.29	---	---	---	---	---	0.00	0.00	0.27	0.02	0.01	0.00
2	0.05	---	---	---	---	---	0.00	0.01	0.00	0.00	0.03	0.03
3	0.03	---	---	---	---	---	0.00	0.00	0.01	0.00	0.06	0.16
4	0.12	---	---	---	---	---	0.00	0.00	0.52	0.00	0.04	0.00
5	0.00	---	---	---	---	---	0.09	0.00	0.49	0.00	0.03	0.03
6	0.32	---	---	---	---	---	0.32	0.00	0.10	0.00	0.02	0.08
7	0.00	---	---	---	---	---	0.01	0.00	0.09	0.00	0.00	0.06
8	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.06	0.00
9	0.00	---	---	---	---	---	0.00	0.09	0.06	0.00	0.02	0.01
10	0.00	---	---	---	---	---	0.00	0.21	0.11	0.00	0.00	0.00
11	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.47	0.00
12	0.00	---	---	---	---	---	0.00	0.00	0.08	0.00	0.00	0.00
13	0.00	---	---	---	---	---	0.00	0.00	0.02	0.00	0.00	0.09
14	0.00	---	---	---	---	---	0.00	0.00	0.23	0.00	0.00	0.00
15	0.00	---	---	---	---	---	0.03	0.19	0.00	0.61	0.00	0.00
16	0.00	---	---	---	---	---	0.00	0.01	0.17	0.09	0.00	0.00
17	0.00	---	---	---	---	---	0.00	0.00	0.10	0.00	0.01	0.00
18	0.00	---	---	---	---	---	0.00	0.01	0.01	0.00	0.02	0.00
19	0.00	---	---	---	---	---	0.05	0.10	0.58	0.19	0.01	0.00
20	0.00	---	---	---	---	---	0.01	0.01	0.05	0.00	0.00	0.00
21	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	---	---	---	---	---	0.37	0.00	0.00	0.01	0.00	0.00
23	0.00	---	---	---	---	---	0.09	0.06	0.00	0.01	0.37	0.00
24	0.00	---	---	---	---	---	0.18	0.01	0.00	0.00	0.00	0.00
25	0.31	---	---	---	---	---	0.00	0.08	0.44	0.00	0.01	0.00
26	0.44	---	---	---	---	---	0.00	0.01	0.02	0.55	0.08	0.00
27	0.37	---	---	---	---	---	0.00	0.00	0.00	0.11	0.06	0.00
28	0.00	---	---	---	---	---	0.00	0.00	0.43	0.07	0.32	0.00
29	0.03	---	---	---	---	---	0.00	0.00	0.10	0.03	0.01	0.00
30	0.00	---	---	---	---	---	0.00	0.04	0.00	0.00	0.76	0.00
31	0.00	---	---	---	---	---	---	0.15	---	0.00	0.10	---
TOTAL	1.96	---	---	---	---	---	1.15	0.98	3.88	1.69	2.49	0.46
MAX	0.44	---	---	---	---	---	0.37	0.21	0.58	0.61	0.76	0.16