10131000 CHALK CREEK AT COALVILLE, UT

LOCATION.--Lat 40°55'14", long 111°24'03", in NW¼NE¼SE¼ sec. 8, T. 2 N., R. 5 E., Summit County, Hydrologic Unit 16020101, on left bank 100 ft downstream from bridge on U.S. Highway 189 in Coalville and 0.3 mi upstream from mouth.

DRAINAGE AREA.--250 mi^2.

PERIOD OF RECORD.--November 1904, March to November 1905, April 1927 to current year.

REVISED RECORDS.--WSP 1564: 1929. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,557.6 feet above NGVD of 1929. Prior to February 13, 1931, nonrecording gage at site 100 ft upstream at different datum. February 13, 1931 to October 15, 1941, water-stage recorder at site 300 ft upstream at different datum. October 16, 1941 to September 30, 1987 at datum 3.0 ft lower.

REMARKS.--Records good. Diversions above station used for irrigation of land in the drainage basin above the station. Flow slightly affected by Chalk Creek Reservoir, capacity, 1,600 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,790 ft^3/s, May 22, 1993, gage height, 6.89 ft; minimum, less than 1.0 ft^3/s for several days in 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 6	0615	*162	*3.99				

Minimum daily discharge, 4.5 ft^3/s, Sep 11, 12.

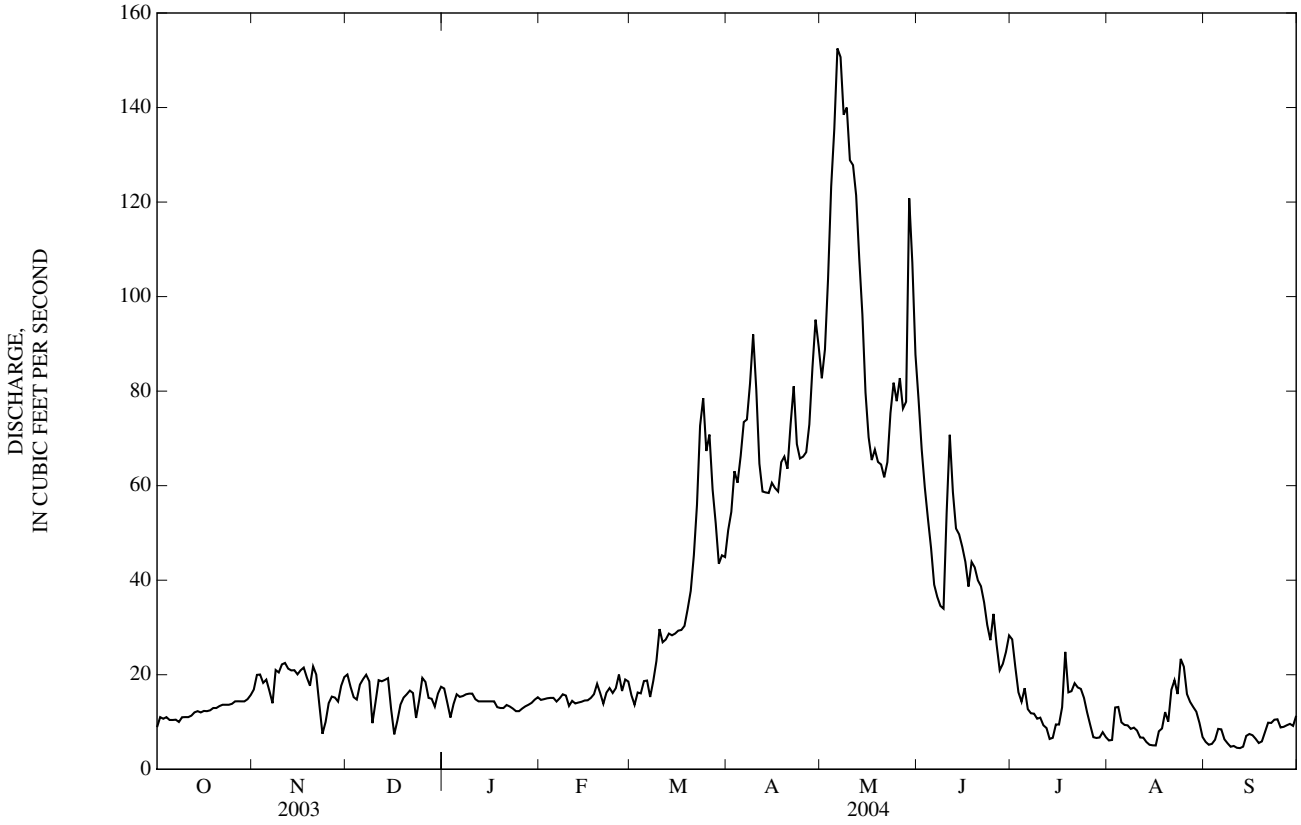
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	17	20	17	15	16	51	83	78	27	6.1	5.8
2	11	20	17	14	15	14	54	89	68	22	6.2	5.2
3	11	20	15	11	15	16	63	104	60	16	13	5.4
4	11	18	15	14	15	16	61	123	53	14	13	6.3
5	10	19	18	16	15	19	66	135	47	17	9.9	8.5
6	10	17	19	15	14	19	73	152	39	13	9.4	8.4
7	10	14	20	15	15	15	74	151	36	12	9.3	6.3
8	e10	21	19	16	16	19	82	138	35	12	8.5	5.5
9	e11	20	9.8	16	16	23	92	140	34	11	8.8	4.8
10	11	22	14	16	13	30	80	129	54	11	8.2	4.9
11	11	22	19	15	14	27	65	128	71	9.3	6.7	4.5
12	11	21	19	14	14	27	59	121	59	8.7	6.7	4.5
13	12	21	19	14	14	29	59	108	51	6.4	5.8	4.8
14	12	21	19	14	14	28	58	96	50	6.7	5.2	7.1
15	12	20	13	14	15	29	61	80	47	9.5	5.1	7.5
16	12	21	7.4	14	15	29	59	70	44	9.5	5.0	7.2
17	12	22	10	14	15	29	59	65	39	13	8.0	6.4
18	12	19	14	13	16	30	65	68	44	25	8.6	5.6
19	13	18	15	13	18	34	66	65	43	16	12	5.9
20	13	22	16	13	16	38	64	64	40	17	10	7.9
21	13	20	17	14	14	45	73	62	39	18	17	9.9
22	14	14	16	13	16	56	81	65	35	17	19	9.8
23	14	7.5	11	13	17	73	69	75	31	17	16	10
24	14	10	15	12	16	79	66	82	27	15	23	11
25	14	14	19	12	17	67	66	78	33	12	22	8.8
26	14	15	18	13	20	71	67	83	26	9.4	16	9.0
27	14	15	15	13	17	59	73	76	21	6.8	14	9.3
28	14	14	15	14	19	52	85	78	22	6.6	13	9.6
29	14	18	13	14	19	43	95	121	25	6.7	12	9.2
30	15	20	16	15	---	45	89	107	28	7.8	9.8	11
31	16	---	17	15	---	45	---	88	---	6.8	6.8	---
TOTAL	379.9	542.5	490.2	436	455	1,122	2,075	3,024	1,279	399.2	334.1	220.1
MEAN	12.3	18.1	15.8	14.1	15.7	36.2	69.2	97.5	42.6	12.9	10.8	7.34
MAX	16	22	20	17	20	79	95	152	78	27	23	11
MIN	8.9	7.5	7.4	11	13	14	51	62	21	6.4	5.0	4.5
AC-FT	754	1,080	972	865	902	2,230	4,120	6,000	2,540	792	663	437

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2004, BY WATER YEAR (WY)

MEAN	21.7	23.8	21.0	20.7	23.6	40.4	115	277	175	46.6	23.4	21.3
MAX	66.7	60.3	54.2	49.8	94.6	168	378	775	812	194	89.9	69.2
(WY)	(1983)	(1985)	(1984)	(1984)	(1986)	(1986)	(1986)	(1986)	(1983)	(1983)	(1984)	(1983)
MIN	1.00	4.57	8.52	8.93	11.6	15.9	13.7	6.90	1.70	1.55	1.48	1.00
(WY)	(1935)	(1935)	(1940)	(1961)	(1940)	(1964)	(1934)	(1934)	(1934)	(1934)	(1934)	(1934)

10131000 CHALK CREEK AT COALVILLE, UT—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1928 - 2004	
ANNUAL TOTAL	12,777.6		10,757.0			
ANNUAL MEAN	35.0		29.4		67.6	
HIGHEST ANNUAL MEAN					197	1986
LOWEST ANNUAL MEAN					8.66	1934
HIGHEST DAILY MEAN	236	May 19	152	May 6	1,420	May 22, 1993
LOWEST DAILY MEAN	4.3	Aug 2	4.5	Sep 11	1.0	Jun 8, 1934
ANNUAL SEVEN-DAY MINIMUM	5.4	Jul 30	5.0	Sep 7	1.0	Aug 19, 1934
ANNUAL RUNOFF (AC-FT)	25,340		21,340		48,960	
10 PERCENT EXCEEDS	96		73		178	
50 PERCENT EXCEEDS	16		16		26	
90 PERCENT EXCEEDS	8.7		8.0		10	

e Estimated