10131000 CHALK CREEK AT COALVILLE, UT

Weber River Basin

LOCATION.--Lat 40°55′14″, long 111°24′03″ referenced to North American Datum of 1927, in NW ¼ NE ¼ SE ¼ 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.

WATER-DISCHARGE RECORDS

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

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

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 (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 21	0500	*837	*5.54

Minimum daily discharge, 9.1 ft^3/s, Aug 14.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	12	24	e13	18	20	24	35	184	390	126	e24	22
2	12	19	16	14	15	20	41	173	385	121	e25	19
3	12	23	15	21	16	23	48	176	319	118	27	18
4	11	24	14	20	19	24	70	188	282	117	24	19
5	11	22	15	17	21	24	65	211	256	108	22	18
6	12	25	15	17	18	24	64	301	273	92	19	16
7	15	25	15	14	22	26	74	305	285	87	19	17
8	12	26	e16	19	13	27	136	261	267	76	18	18
9	11	30	22	21	11	28	114	261	249	68	17	22
10	12	43	29	29	18	31	82	397	225	57	21	26
11	12	40	26	41	16	32	69	510	210	56	15	26
12	14	37	25	29	23	35	70	399	248	59	11	26
13	14	34	24	14	22	40	104	315	243	47	9.2	28
14	14	31	20	17	29	32	122	314	214	40	9.1	28
15	14	27	23	23	26	32	100	348	206	38	9.2	28
16	14	25	22	23	16	35	99	413	206	33	11	25
17	13	27	15	23	15	32	123	559	200	31	14	21
18	15	24	17	21	19	29	147	416	197	27	13	19
19	18	23	18	22	31	30	139	491	195	27	11	19
20	28	20	19	20	27	37	139	634	195	e27	9.4	18
21	47	19	15	20	24	35	131	723	190	e26	15	19
22	36	18	15	19	24	33	117	686	185	e27	23	23
23	29	24	14	18	22	40	122	668	180	e30	24	21
24	32	18	15	18	19	39	153	660	176	e28	24	18
25	e33	26	15	19	20	38	174	594	166	e28	23	18
26	30	24	16	20	22	34	191	492	168	e27	22	19
27	27	13	17	23	20	34	219	441	151	e25	22	20
28	32	17	19	22	21	44	250	415	134	e25	20	24
29	31	e11	21	22	---	45	232	392	146	e23	21	20
30	27	e12	21	21	---	41	200	421	133	e24	21	18
31	27	---	21	19	---	36	---	421	---	e25	25	---
Total	627	731	568	644	569	1,004	3,630	12,769	6,674	1,643	567.9	633
Mean	20.2	24.4	18.3	20.8	20.3	32.4	121	412	222	53.0	18.3	21.1
Max	47	43	29	41	31	45	250	723	390	126	27	28
Min	11	11	13	14	11	20	35	173	133	23	9.1	16
Ac-ft	1,240	1,450	1,130	1,280	1,130	1,990	7,200	25,330	13,240	3,260	1,130	1,260

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	21.7	23.8	20.9	20.7	23.5	40.3	115	279	175	46.7	23.3	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)

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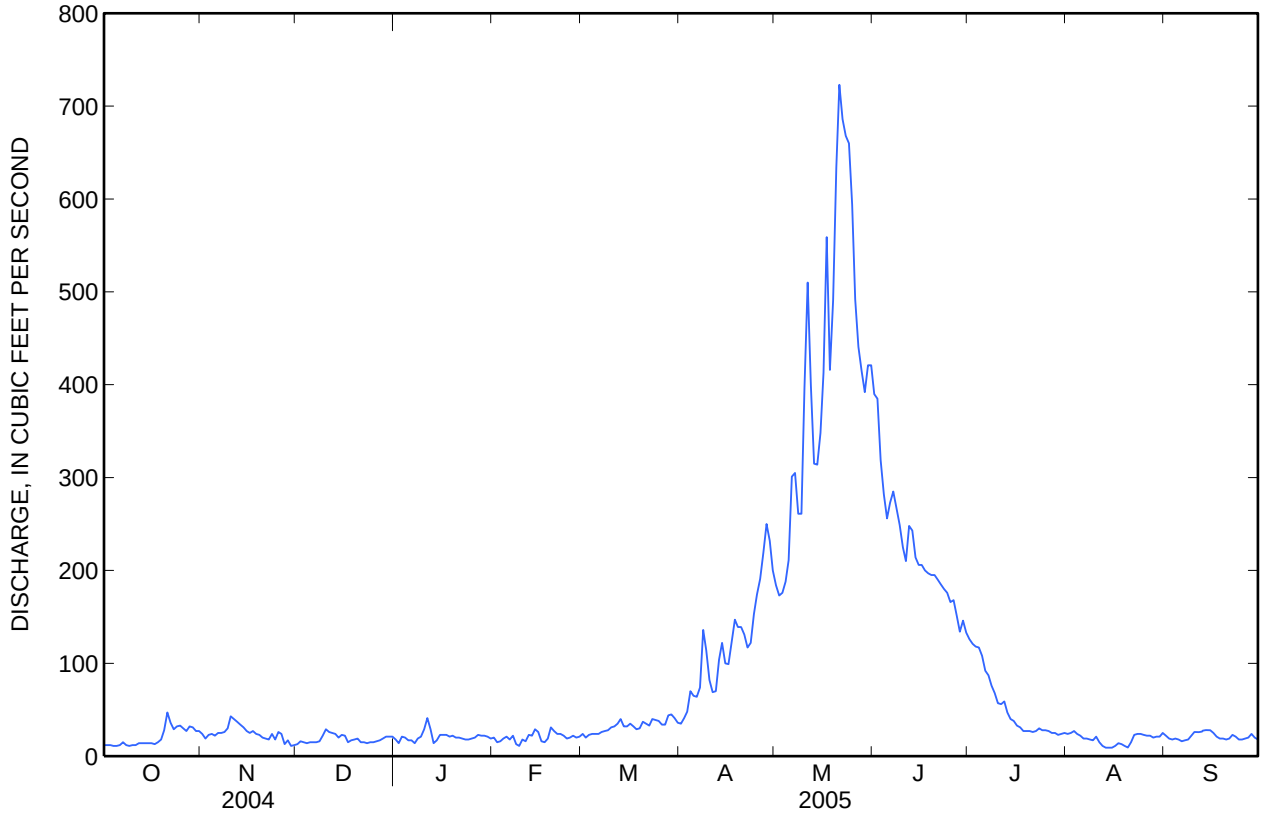
SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1928 - 2005	
Annual total	11,270.4		30,059.9			
Annual mean	30.8		82.4		67.8	
Highest annual mean					197	1986
Lowest annual mean					8.66	1934
Highest daily mean	152	May 6	723	May 21	1,420	May 22, 1993
Lowest daily mean	4.5	Sep 11	9.1	Aug 14	1.0	Jun 8, 1934
Annual seven-day minimum	5.0	Sep 7	11	Aug 12	1.0	Aug 19, 1934
Annual runoff (ac-ft)	22,350		59,620		49,100	
10 percent exceeds	73		248		180	
50 percent exceeds	17		25		26	
90 percent exceeds	8.3		15		10