10242000 COAL CREEK NEAR CEDAR CITY, UT

LOCATION.--Lat 37°40'20", long 113°02'02", in SE$^1/_4$SE$^1/_4$NE$^1/_4$ sec. 13, T. 36 S., R. 11 W., Iron County, Hydrologic Unit 16030006, on right bank 1.2 mi east of Cedar City, and 3.7 mi downstream from the mouth of Right Hand Creek.

DRAINAGE AREA.--80.9 mi^2.

PERIOD OF RECORD.--May to September 1915 (gage heights and discharge measurements only), October 1915 to July 1916, September 1916 to July 1918, September 1918 to November 1919, May 1935 to September 1937, April 1938 to current year. Records prior to November 1919 exclude flow of power canal; records would be equivalent if flow in canal were added.

REVISED RECORD.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Crest-stage gage since August 1, 1989. Concrete control since July 1972, rebuilt July 29, 1988. Elevation of gage is 6,000 ft above sea level, from topographic map. Prior to March 30, 1939, nonrecording gages and March 30, 1939 to May 14, 1945, water-stage recorder at several sites about 0.5 mi upstream at various datums. May 15, 1945 to October 10, 1951 and May 4 to July 2, 1952, water-stage recorder at site 2 mi upstream at different datum. July 3, 1952 to November 17, 1967, water-stage recorder at site 600 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges and daily discharges for Sep 5, 6, 8, 10, 11, and 13 to 30, which are poor. No diversion above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft^3/s, Jul 23, 1969, gage height, 11.67 ft, from flood-mark, based on slope-area measurement of Jul 16, 1967 and applied to site and datum now in use; minimum, 0.3 ft^3/s, Nov 5, 14, 17, 26, 1959, Feb 17, 1960, Feb 24, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 550 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Aug 8	1815	*2,040	*9.55	No other peaks above base discharge.			

Minimum discharge, 6.9 ft^3/s, Feb 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	e15	11	14	18	12	43	230	62	23	12	e12
2	7.9	e14	12	13	14	12	49	221	58	23	12	e11
3	7.9	e14	11	17	12	12	42	133	54	23	12	e12
4	8.1	e17	12	17	13	12	38	111	51	22	12	e10
5	8.3	e14	12	15	15	12	37	104	48	22	e12	10
6	8.2	e13	12	10	16	13	33	123	45	21	e12	10
7	8.3	e11	12	12	13	13	28	174	43	22	e12	e10
8	8.3	e11	12	11	12	14	28	227	40	21	62	11
9	8.3	e11	11	10	e17	17	28	249	38	32	e18	e11
10	17	e11	11	10	18	14	27	274	35	29	e16	10
11	14	e11	11	10	13	14	24	251	33	20	e15	10
12	11	10	11	10	12	13	25	258	32	18	e14	e10
13	9.9	15	12	11	11	15	25	258	32	16	e18	11
14	9.9	19	13	13	11	18	33	258	31	17	e20	11
15	9.6	12	11	15	11	16	42	228	29	17	e18	11
16	9.1	12	12	e15	12	15	48	221	28	15	e16	10
17	9.1	12	13	e15	12	14	60	295	27	15	e18	9.8
18	9.1	15	13	16	11	16	61	211	27	15	e14	9.7
19	9.2	18	e12	16	11	25	61	237	26	14	e16	9.5
20	9.2	18	e11	16	12	31	58	173	25	14	e20	9.6
21	9.3	17	15	12	12	33	49	132	25	14	e14	9.4
22	9.7	13	13	12	12	37	44	139	25	13	e17	9.3
23	e13	12	e12	14	13	37	42	129	25	13	e14	9.1
24	e12	12	12	11	11	35	53	143	25	13	e18	8.9
25	e11	12	11	11	12	37	71	102	24	e13	e16	8.9
26	e11	12	15	12	12	38	91	97	26	e13	e12	9.0
27	e12	11	18	11	12	36	107	95	26	e13	e14	9.2
28	e12	12	20	11	12	34	130	87	e25	13	e12	9.5
29	e9.0	12	24	e11	---	32	156	80	24	12	e16	9.9
30	e15	11	21	11	---	29	169	74	23	12	e14	10
31	e14	---	16	12	---	35	---	68	---	12	e11	---
TOTAL	318.5	397	412	394	360	691	1702	5382	1012	540	507	301.8
MEAN	10.3	13.2	13.3	12.7	12.9	22.3	56.7	174	33.7	17.4	16.4	10.1
MAX	17	19	24	17	18	38	169	295	62	32	62	12
MIN	7.9	10	11	10	11	12	24	68	23	12	11	8.9
AC-FT	632	787	817	781	714	1370	3380	10680	2010	1070	1010	599

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

MEAN	12.6	11.6	10.4	10.1	11.8	18.2	55.7	145	70.4	22.6	17.3	14.0
MAX	38.4	24.1	21.3	17.7	18.6	39.5	140	489	428	69.9	59.7	46.8
(WY)	1973	1988	1984	1984	1947	1995	1985	1973	1983	1983	1968	1998
MIN	6.17	5.95	5.78	6.41	7.40	9.10	17.1	19.0	11.6	7.61	5.94	6.33
(WY)	1991	1978	1991	1951	1960	1951	1975	1977	1989	1959	1960	1956

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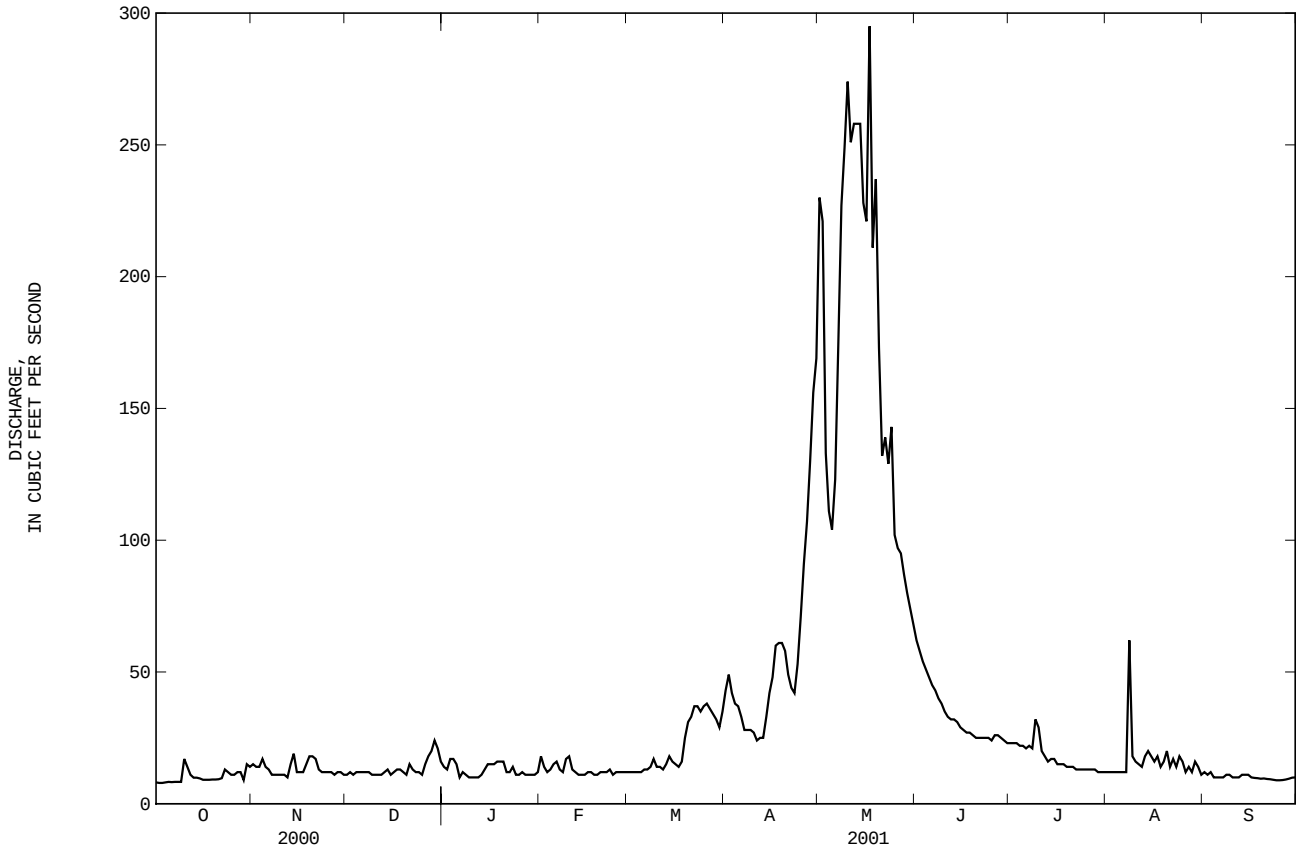
SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	8708.1		12017.3			
ANNUAL MEAN	23.8		32.9		33.5	
HIGHEST ANNUAL MEAN					86.0	1983
LOWEST ANNUAL MEAN					11.4	1977
HIGHEST DAILY MEAN	185	May 3	295	May 17	1080	May 31 1983
LOWEST DAILY MEAN	7.9	Aug 13	7.9	Oct 2	2.1	Nov 3 1990
ANNUAL SEVEN-DAY MINIMUM	8.1	Sep 30	8.1	Oct 1	2.5	Oct 28 1990
ANNUAL RUNOFF (AC-FT)	17270		23840		24240	
10 PERCENT EXCEEDS	56		69		76	
50 PERCENT EXCEEDS	12		14		13	
90 PERCENT EXCEEDS	8.9		10		7.8	

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