

09408000 LEEDS CREEK NEAR LEEDS, UT

LOCATION.--Lat 37°16'03", long 113°22'12", in SW¹/₄SE¹/₄NE¹/₄ sec. 36, T. 40 S., R. 14 W., Washington County, Hydrologic Unit 15010008, on left bank 1,150 ft upstream from Leeds Ditch diversion, 2.1 mi north of Leeds, and 4.4 mi upstream from mouth.

DRAINAGE AREA.--15.5 mi².

PERIOD OF RECORD.--October 1915 to June 1920 (fragmentary) in reports of Geological Survey; October 1964 to current year.

GAGE.--Water-stage recorder. Crest-stage gage since May 30, 1989. Elevation of gage is 4,000 ft above sea level, from topographic map. Prior to June 1920, at various sites and datums about 600 ft downstream; October 28, 1964, to August 20, 1967, water-stage recorder at site 1,000 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversion of spring area for domestic use about 4 mi upstream of gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft³/s, Aug 3, 1988, gage height, 9.41 ft, from rating curve extended above 33 ft³/s on basis of slope-area measurement; minimum daily discharge, 1.1 ft³/s, Sep 17, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug 12, 1964 reached a stage of 6.00 ft, former site and datum, discharge 2,980 ft³/s from slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 10	0015	*18	*2.11				

Minimum daily discharge, $2.5 \text{ ft}^3/\text{s}$, on several days in October.

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	2.5	4.3	3.9	3.7	4.0	5.2	8.5	11	14	11	5.6	3.5
2	2.5	4.2	3.9	3.7	3.9	5.1	8.7	11	14	10	5.5	3.5
3	2.5	4.2	3.9	3.7	3.9	5.6	8.7	11	14	10	5.5	e3.5
4	2.6	4.1	3.9	3.7	4.1	5.4	8.7	11	14	9.8	5.3	e3.5
5	2.6	4.0	3.9	3.7	4.6	5.4	8.7	11	14	9.3	5.1	e3.5
6	2.5	4.0	3.9	3.7	5.0	6.8	8.8	11	14	9.3	5.0	e3.5
7	2.5	4.0	3.9	3.7	5.0	8.6	8.8	11	14	9.9	4.9	e3.3
8	2.5	4.0	3.9	3.7	4.9	8.0	9.0	11	14	9.6	5.0	e3.3
9	2.5	4.0	3.9	4.1	4.8	8.3	8.9	11	14	9.1	5.0	e3.3
10	3.8	e4.0	3.9	3.8	4.7	12	8.7	10	14	8.9	4.9	e3.3
11	3.2	e4.0	3.9	4.7	4.7	8.8	8.7	10	14	8.6	5.1	e3.3
12	3.1	4.0	3.9	4.1	4.7	7.2	8.8	10	14	8.5	4.8	e3.3
13	3.1	e4.0	3.9	3.9	4.7	7.0	8.7	10	14	8.4	4.8	e3.3
14	3.1	4.0	3.9	3.7	4.8	7.0	8.7	10	14	8.4	4.8	e3.3
15	3.0	4.0	3.9	3.7	4.7	6.6	8.7	10	14	8.4	4.6	e3.3
16	3.0	4.0	3.9	3.7	4.7	6.4	8.8	10	14	8.2	4.6	e3.3
17	3.0	4.0	3.9	e3.7	4.6	6.3	8.9	11	13	8.0	4.4	e3.1
18	3.0	e4.0	3.9	e3.7	4.7	6.2	9.2	11	13	7.8	4.2	e3.1
19	3.0	4.0	e3.9	3.8	4.9	6.2	9.5	11	13	7.7	4.2	e3.1
20	3.0	4.0	e3.8	3.8	5.0	6.7	9.6	11	13	7.5	4.5	e3.1
21	3.0	4.0	3.9	3.8	4.8	7.4	10	11	13	7.2	4.4	e3.1
22	3.0	4.0	3.9	3.9	4.9	7.9	10	11	12	7.1	4.2	e3.1
23	3.5	4.0	3.9	3.9	5.0	8.2	10	11	12	7.0	4.1	e3.1
24	3.4	4.0	3.9	3.9	4.8	8.2	10	11	12	6.7	4.0	e3.1
25	3.2	4.0	3.8	4.0	4.8	8.2	10	12	12	6.8	3.9	e3.1
26	3.1	4.0	3.7	3.9	4.9	8.4	10	12	12	6.7	3.8	e3.1
27	5.1	4.0	3.7	4.0	4.8	8.7	10	12	12	6.4	3.7	e3.1
28	3.8	4.0	3.7	4.0	5.4	8.6	11	13	11	6.1	3.6	e3.1
29	3.6	3.9	3.7	3.9	---	8.5	11	13	11	5.9	3.6	e3.1
30	6.5	3.9	3.7	3.8	---	8.6	11	13	11	5.9	3.6	e3.1
31	4.7	---	3.7	4.1	---	8.5	---	14	---	5.8	3.6	---
TOTAL	99.9	120.6	119.5	119.5	131.8	230.0	280.1	346	394	250.0	140.3	97.4
MEAN	3.22	4.02	3.85	3.85	4.71	7.42	9.34	11.2	13.1	8.06	4.53	3.25
MAX	6.5	4.3	3.9	4.7	5.4	12	11	14	14	11	5.6	3.5
MIN	2.5	3.9	3.7	3.7	3.9	5.1	8.5	10	11	5.8	3.6	3.1
AC-FT	198	239	237	237	261	456	556	686	781	496	278	193

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2001, BY WATER YEAR (WY)

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1965 - 2001
ANNUAL TOTAL	1694.7	2329.1	7.50
ANNUAL MEAN	4.63	6.38	18.1 2.20
HIGHEST ANNUAL MEAN			1980
LOWEST ANNUAL MEAN			1977
HIGHEST DAILY MEAN	8.5 Jun 3	14 May 31	412 Dec 6 1966
LOWEST DAILY MEAN	2.5 Oct 1	2.5 Oct 1	1.1 Sep 17 1972
ANNUAL SEVEN-DAY MINIMUM	2.5 Oct 1	2.5 Oct 1	1.3 Jul 10 1977
ANNUAL RUNOFF (AC-FT)	3360	4620	5430
10 PERCENT EXCEEDS	7.7	11	16
50 PERCENT EXCEEDS	3.9	4.8	4.7
90 PERCENT EXCEEDS	2.7	3.2	2.5

e Estimated

