

JORDAN RIVER BASIN

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10154200 PROVO RIVER NEAR WOODLAND, UT

LOCATION.--Lat 40°33'28", long 111°10'05", in NE^{1/4}NW^{1/4}SE^{1/4} sec. 17, T. 3 S., R. 7 E., Summit County, Hydrologic Unit 16020203, on right bank on south side of State Highway 35, 0.3 mi downstream from Twin Pine Bridge, 1.6 mi downstream from South Fork and 3.5 mi southeast of Woodland.

DRAINAGE AREA.--162 mi².

PERIOD OF RECORD.--July 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,950 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Records include flow of Duchesne Tunnel, transmountain diversion. Flow also affected by some small irrigation diversions above station and by storage in several small reservoirs at headwaters. Information on these diversions is available from the Provo River Water Commissioner's Report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,040 ft³/s, Jun 7, 1986, from rating curve extended above 2,000 ft³/s on the basis of slope-area measurement of peak flow, gage height, 7.40 ft, datum then in use; minimum, 16 ft³/s, Nov 6, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,290 ft³/s, May 26, gage height, 5.89 ft; minimum discharge, 26 ft³/s, Feb 5, Mar 29.

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	85	54	68	62	51	41	94	208	1,310	143	54	51
2	95	45	59	60	52	43	99	204	1,060	130	66	37
3	90	51	54	61	50	41	89	196	851	113	85	33
4	78	58	59	59	51	45	75	199	684	78	72	37
5	74	60	60	59	36	44	86	196	582	74	58	40
6	70	62	51	56	42	45	80	174	504	75	64	34
7	77	63	56	56	47	45	76	170	438	66	58	45
8	80	69	48	e57	48	44	82	170	387	69	75	42
9	80	74	48	e55	48	45	98	173	354	54	61	45
10	81	68	58	e55	44	47	120	172	330	56	65	64
11	76	71	65	e59	43	49	154	170	301	52	68	48
12	73	62	61	e56	44	53	199	169	282	44	73	47
13	69	72	58	e54	47	59	240	205	348	48	72	48
14	66	66	61	e54	48	69	278	277	281	42	77	47
15	64	64	63	e56	44	64	273	423	242	66	78	47
16	66	60	56	e52	46	66	225	636	214	68	68	50
17	61	63	65	e54	45	64	221	787	199	77	59	58
18	59	60	64	e51	44	58	218	936	190	75	59	70
19	57	58	59	e52	42	57	196	1,020	180	65	69	71
20	57	61	59	e51	44	59	182	932	179	63	58	81
21	54	64	64	e50	42	59	190	1,050	183	62	63	82
22	52	63	63	e47	41	64	200	1,390	266	58	79	82
23	62	65	51	48	45	72	180	1,650	232	56	60	82
24	62	65	54	49	43	71	170	1,800	293	72	60	49
25	64	59	58	48	46	63	204	1,740	299	54	47	54
26	68	45	55	47	46	73	267	1,990	283	56	36	47
27	68	56	59	49	45	65	266	1,980	247	59	38	44
28	64	63	60	53	41	66	263	1,950	212	53	40	45
29	68	62	60	46	---	62	255	1,890	183	57	42	48
30	71	63	59	50	---	70	239	1,750	162	50	46	48
31	55	---	59	51	---	80	---	1,520	---	62	48	---
TOTAL	2,146	1,846	1,814	1,657	1,265	1,783	5,319	26,127	11,276	2,097	1,898	1,576
MEAN	69.2	61.5	58.5	53.5	45.2	57.5	177	843	376	67.6	61.2	52.5
MAX	95	74	68	62	52	80	278	1,990	1,310	143	85	82
MIN	52	45	48	46	36	41	75	169	162	42	36	33
AC-FT	4,260	3,660	3,600	3,290	2,510	3,540	10,550	51,820	22,370	4,160	3,760	3,130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2003, BY WATER YEAR (WY)

MEAN	73.1	66.6	61.4	59.6	58.6	74.6	195	801	773	242	114	80.1
MAX	155	97.9	97.3	86.9	95.7	198	370	1,348	1,653	730	255	166
(WY)	(1983)	(1983)	(1984)	(1984)	(1986)	(1986)	(1985)	(1985)	(1997)	(1995)	(1965)	(1982)
MIN	36.0	42.3	38.4	36.6	40.1	41.5	69.4	128	113	46.6	26.6	29.0
(WY)	(2002)	(1993)	(1977)	(1977)	(1977)	(1977)	(1975)	(1977)	(1992)	(1992)	(1992)	(1992)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1964 - 2003
ANNUAL TOTAL	47,059	58,804	
ANNUAL MEAN	129	161	
HIGHEST ANNUAL MEAN			217
LOWEST ANNUAL MEAN			351
HIGHEST DAILY MEAN	1,270	May 20	71.3
LOWEST DAILY MEAN	29	Aug 27	1986
ANNUAL SEVEN-DAY MINIMUM	29	Aug 27	1977
ANNUAL RUNOFF (AC-FT)	93,340	116,600	2,530
10 PERCENT EXCEEDS	355	275	May 28, 1979
50 PERCENT EXCEEDS	57	63	Aug 26, 1992
90 PERCENT EXCEEDS	43	45	Aug 24, 1992

e Estimated

