

09306500 WHITE RIVER NEAR WATSON, UTAH

LOCATION.--Lat 39°58'44", long 109°10'41" , in SE¼SW¼NE¼ sec. 2, T. 10 S., R. 24 E., Uintah County, Hydrologic Unit 14050007, on left bank 350 ft downstream from bridge on State Highway 45, 1 mi downstream from Evacuation Creek, and 7 mi north of Watson.

DRAINAGE AREA.--4,020 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1904 to October 1906 (no winter records), May to November 1918, April 1923 to September 1979, October 1985 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "near Dragon" 1906 and "near Rangely, Colo." 1904-1905, 1918.

GAGE.--Water-stage recorder. Datum of gage is 4,946.78 ft above sea level. See WSP 1733 for history of changes prior to October 27, 1959.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 31,900 acres above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 8,160 ft³/s, Jul 15, 1929; maximum gage height, 13.1 ft, Feb 11, 1962, from floodmark in well (backwater from ice); minimum, 11 ft³/s, Dec 6, 1972, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,900 ft³/s and maximum (\*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 18	1800	*2,440	*4.89				

Minimum daily discharge, 193 ft³/s, Sep 9.

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	443	406	e312	e316	e360	450	411	1110	e1830	429	225	232
2	420	416	e310	e330	e370	433	408	1160	e1830	411	235	217
3	396	423	e309	e325	e378	465	410	1340	e1840	443	239	229
4	385	409	e300	e319	e379	451	433	1270	e1880	460	255	219
5	388	391	e344	e315	e380	470	450	1100	e1870	435	233	210
6	403	402	e328	e330	e370	458	486	1030	e1640	414	232	220
7	402	422	e340	e340	e360	494	514	1100	e1450	393	227	201
8	390	380	e345	e331	e360	531	556	930	e1350	419	289	198
9	391	347	e336	e325	e363	557	533	892	1290	420	565	193
10	398	e310	e335	e291	e368	595	505	992	1270	378	363	232
11	400	e290	e332	e262	e375	655	465	1120	1200	395	327	245
12	431	e280	e320	e291	e375	635	472	1340	1140	569	308	222
13	424	e270	e311	e320	e367	564	476	1480	1070	432	266	219
14	405	e272	e310	e371	e361	531	441	1670	1040	394	484	261
15	398	e304	e300	e330	e365	510	426	1830	982	394	283	246
16	394	e323	e295	e325	e371	458	422	1910	861	421	305	257
17	395	e320	e291	e320	e388	439	408	2040	773	385	300	278
18	391	e327	e250	e319	e392	433	432	2110	700	359	244	371
19	387	e290	e205	e315	e398	405	487	2150	655	321	249	378
20	383	e249	e241	e317	e399	403	589	1990	624	314	239	351
21	380	e280	e250	e321	e395	424	638	1970	582	301	252	331
22	384	e310	e270	e330	e389	463	661	1830	471	292	372	308
23	381	e320	e284	e345	e387	490	676	1580	445	283	407	295
24	391	e350	e290	e360	e392	488	665	1470	434	268	338	292
25	403	e330	e300	e365	e400	487	646	1550	440	272	307	292
26	418	e335	e310	e365	e403	483	628	1670	453	281	280	291
27	411	e330	e300	e362	e405	495	586	1810	420	333	271	277
28	399	e340	e290	e358	407	493	646	1780	511	372	263	285
29	399	e330	e280	e350	---	462	824	1820	504	315	244	288
30	401	e320	e314	e340	---	446	1040	1800	435	277	248	288
31	412	---	e336	e345	---	428	---	e1810	---	240	248	---
TOTAL	12403	10076	9338	10233	10657	15096	16334	47654	29990	11420	9098	7926
MEAN	400	336	301	330	381	487	544	1537	1000	368	293	264
MAX	443	423	345	371	407	655	1040	2150	1880	569	565	378
MIN	380	249	205	262	360	403	408	892	420	240	225	193
AC-FT	24600	19990	18520	20300	21140	29940	32400	94520	59490	22650	18050	15720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923-79, 1986-2001, BY WATER YEAR (WY)

	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
MEAN	471	431	366	358	428	580	712	1616	1823	727	480	440
MAX	1029	716	600	580	1414	1180	2466	3537	4018	2923	1915	1917
(WY)	1930	1998	1926	1926	1986	1939	1929	1929	1929	1929	1929	1929
MIN	243	279	176	160	246	336	368	384	227	109	142	208
(WY)	1964	1995	1995	1937	1949	1952	1961	1977	1934	1934	1994	1955

09306500 WHITE RIVER NEAR WATSON, UTAH--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1923-79, 1986-2001	
ANNUAL TOTAL	196115		190225		702	
ANNUAL MEAN	536		521		1736	
HIGHEST ANNUAL MEAN					308	
LOWEST ANNUAL MEAN					1977	
HIGHEST DAILY MEAN	3020	Jun 1	2150	May 19	8160	Jul 15 1929
LOWEST DAILY MEAN	61	Aug 10	193	Sep 9	13	Jul 3 1977
ANNUAL SEVEN-DAY MINIMUM	71	Aug 7	210	Sep 3	33	Jun 28 1977
ANNUAL RUNOFF (AC-FT)	389000		377300		508500	
10 PERCENT EXCEEDS	1030		1110		1600	
50 PERCENT EXCEEDS	408		388		450	
90 PERCENT EXCEEDS	240		262		290	

e Estimated

