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 mi^2, 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 NGVD of 1929. See WSP 1733 for history of changes prior to October 27, 1959. Crest stage gage since 1999.

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 ft^3/s, Jul 15, 1929; maximum gage height, 13.1 ft, Feb 11, 1962, from floodmark in well (backwater from ice); minimum, 11 ft^3/s, Dec 6, 1972, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 3	----	4,230	6.74	No other peak greater than base discharge.			

Minimum discharge, 92 ft^3/s, Aug. 13, 14.

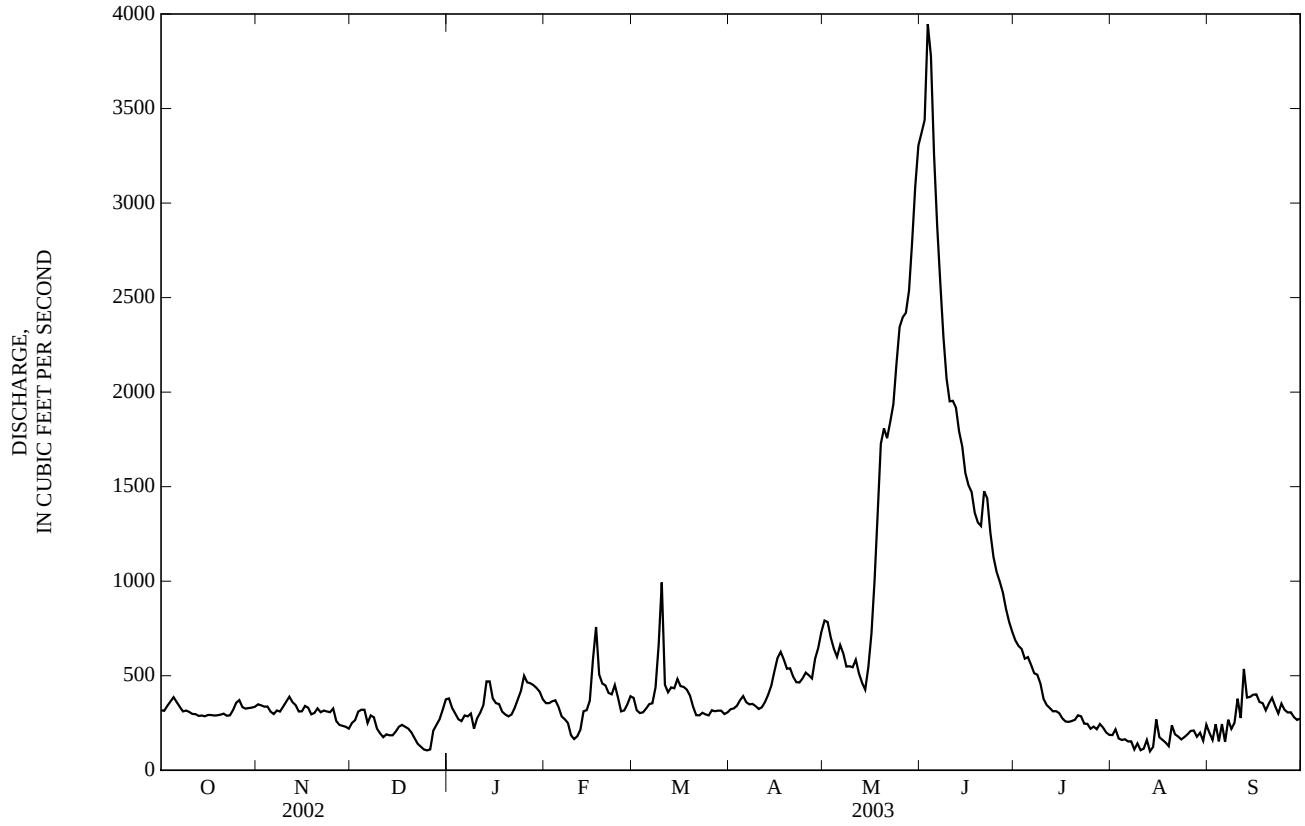
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	317	349	e250	e380	e355	383	323	792	3,370	686	186	198
2	315	343	e265	e330	e355	317	327	784	3,440	658	216	160
3	340	336	e310	e300	e365	303	341	702	3,950	641	168	244
4	364	337	e320	e270	e370	306	370	642	3,780	590	160	153
5	386	310	e320	e260	e335	327	393	600	3,260	599	164	244
6	360	297	e250	e290	e285	350	360	662	2,880	558	152	150
7	e335	316	e290	e285	e270	354	349	618	2,580	513	153	268
8	311	310	e280	e300	e250	438	351	548	2,290	505	110	219
9	316	336	e220	e220	e185	662	339	550	2,070	458	142	251
10	308	363	e195	e275	e165	993	324	545	1,950	377	106	379
11	298	e389	e175	e305	e180	452	334	585	1,950	345	114	276
12	297	360	e190	e345	e215	412	361	512	1,920	329	160	536
13	288	344	e185	e470	312	438	400	463	1,790	312	100	385
14	289	311	e185	e470	318	434	448	426	1,710	313	123	388
15	286	312	e205	e380	368	483	524	545	1,570	302	269	400
16	293	340	e230	e355	585	445	594	722	1,510	274	175	401
17	292	331	e240	e350	758	441	626	1,010	1,470	258	161	361
18	289	296	e230	e310	506	426	585	1,360	1,360	256	146	355
19	291	303	e220	e295	459	395	537	1,730	1,310	260	127	317
20	294	327	e200	e285	449	336	539	1,810	1,290	267	238	354
21	299	307	e170	e295	409	291	495	1,760	1,480	291	190	383
22	288	316	e140	e330	402	290	466	1,840	1,440	285	178	339
23	290	311	e125	e375	451	304	464	1,940	1,260	246	163	300
24	318	307	e110	e420	385	295	486	2,150	1,130	246	176	353
25	357	327	e105	e500	311	290	516	2,340	1,050	220	190	320
26	371	e260	e110	e465	316	318	502	2,400	997	231	208	306
27	334	e240	e210	e460	349	312	486	2,420	940	217	210	307
28	326	e235	e240	e450	391	315	591	2,540	853	245	177	281
29	329	e230	e270	e435	---	e315	647	2,800	785	226	199	266
30	331	e220	e320	e415	---	297	732	3,090	732	200	156	274
31	336	---	e375	e375	---	e306	---	3,300	---	187	241	---
TOTAL	9,848	9,363	6,935	10,995	10,099	12,028	13,810	42,186	56,117	11,095	5,258	9,168
MEAN	318	312	224	355	361	388	460	1,361	1,871	358	170	306
MAX	386	389	375	500	758	993	732	3,300	3,950	686	269	536
MIN	286	220	105	220	165	290	323	426	732	187	100	150
AC-FT	19,530	18,570	13,760	21,810	20,030	23,860	27,390	83,680	111,300	22,010	10,430	18,180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923-79, 1986-2003, BY WATER YEAR (WY)

MEAN	468	428	362	357	425	575	706	1,597	1,801	714	471	435
MAX	1,029	716	600	580	1,414	1,180	2,466	3,537	4,018	2,923	1,915	1,917
(WY)	(1930)	(1998)	(1926)	(1926)	(1986)	(1939)	(1929)	(1929)	(1929)	(1929)	(1929)	(1929)
MIN	243	279	176	160	246	336	368	384	187	73.1	101	207
(WY)	(1964)	(1995)	(1995)	(1937)	(1949)	(1952)	(1961)	(1977)	(2002)	(2002)	(2002)	(2002)

09306500 WHITE RIVER NEAR WATSON, UTAH—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1923-79, 86-2003	
ANNUAL TOTAL	105,374		196,902			
ANNUAL MEAN	289		539		694	
HIGHEST ANNUAL MEAN					1,736	1929
LOWEST ANNUAL MEAN					298	2002
HIGHEST DAILY MEAN	677	May 10	3,950	Jun 3	8,160	Jul 15, 1929
LOWEST DAILY MEAN	19	Jul 20	100	Aug 13	13	Jul 3, 1977
ANNUAL SEVEN-DAY MINIMUM	30	Jul 17	122	Aug 8	30	Jul 17, 2002
ANNUAL RUNOFF (AC-FT)	209,000		390,600		502,900	
10 PERCENT EXCEEDS	506		1,270		1,580	
50 PERCENT EXCEEDS	307		330		445	
90 PERCENT EXCEEDS	79		186		281	

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