09408135 VIRGIN RIVER ABOVE QUAIL CREEK, NEAR HURRICANE, UT

Lower Colorado-Lake Mead Basin
Upper Virgin Subbasin

LOCATION.--Lat 37°11′28″, long 113°21′19″ referenced to North American Datum of 1927, in NE ¼ NE ¼ SW ¼ sec.30, T.41 S., R.13 W., Washington County, UT, Hydrologic Unit 15010008, with permission of Interstate Rock Products, on left bank. Located 2.4 mi upstream of Quail Creek, 3.9 mi northwest of Hurricane, and 4.3 mi upstream of State Highway 9 bridge over Virgin River.

DRAINAGE AREA.--1,314 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1989 to September 1990, April 1992 to September 1993, April 2004 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,820 ft above NGVD of 1929, from topographic map. February 15, 1989 to September 30, 1990 at site 1.0 mi downstream at different datum. April 9, 1992 to September 30, 1990 at site 2.0 mi downstream at different datum.

REMARKS.--Records good except for daily discharges greater than 2,500 ft^3/s and estimated daily discharges, which are poor. Since June 1985 diversions are made about 11 mi upstream into a pipeline that feeds Quail Creek Reservoir 2.4 mi downstream of gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,200 ft^3/s, Jan. 10, 2005, gage height, 20.93 ft, from rating curve extended above 7,220 ft^3/s on basis of slope-area measurement at gage height 18.68 ft; minimum daily discharge,20 ft^3/s, Jul 25-27, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 4,090 ft^3/s, Jul 31, gage height, 16.96 ft; minimum daily discharge, 53 ft^3/s, Feb 13.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	109	85	85	99	67	1,130	316	518	60	61	e260	66
2	108	84	84	91	67	e120	211	525	58	68	e137	68
3	104	77	98	210	71	e115	180	516	58	62	122	67
4	103	81	89	94	67	e115	216	496	62	66	90	89
5	102	81	85	80	66	e110	495	445	60	80	101	70
6	106	80	122	75	66	e110	376	376	57	150	88	73
7	90	74	109	76	62	e110	266	377	58	177	82	68
8	89	76	97	76	60	e115	248	382	59	127	72	71
9	94	69	95	72	60	e115	282	385	82	108	61	92
10	96	71	120	63	63	e118	319	346	62	101	60	74
11	122	90	138	65	58	e120	306	308	58	87	59	68
12	149	91	125	68	57	e125	289	274	56	91	71	65
13	138	88	111	69	53	e120	366	259	55	71	71	58
14	87	91	102	69	55	e115	466	237	57	76	68	65
15	86	94	76	71	57	e115	874	219	81	76	62	101
16	144	91	72	70	56	e110	516	200	82	74	63	84
17	127	92	73	62	54	e105	545	203	86	74	63	71
18	291	92	75	68	60	e105	359	172	80	79	62	72
19	551	91	83	70	63	e115	311	152	71	81	64	69
20	139	93	85	65	65	e115	332	135	64	73	68	64
21	101	89	122	62	59	e110	379	129	61	103	68	68
22	93	89	149	63	60	e130	365	120	63	80	61	74
23	91	92	126	66	65	e145	459	120	62	83	59	77
24	89	89	79	60	72	e130	347	115	58	76	61	79
25	83	89	77	67	73	e125	343	98	60	72	60	81
26	86	88	77	73	77	e125	388	85	61	80	71	76
27	87	90	83	67	82	e125	427	85	58	93	69	72
28	90	80	78	64	168	519	411	81	57	251	69	72
29	111	86	78	64	---	1,580	510	83	56	427	65	69
30	95	92	75	66	---	556	492	70	59	181	66	71
31	88	---	71	65	---	267	---	63	---	943	66	---
Total	3,849	2,575	2,939	2,330	1,883	7,115	11,394	7,574	1,901	4,171	2,439	2,194
Mean	124	85.8	94.8	75.2	67.2	230	380	244	63.4	135	78.7	73.1
Max	551	94	149	210	168	1,580	874	525	86	943	260	101
Min	83	69	71	60	53	105	180	63	55	61	59	58
Ac-ft	7,630	5,110	5,830	4,620	3,730	14,110	22,600	15,020	3,770	8,270	4,840	4,350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990, 93, 2004-06, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	184	105	85.1	534	424	489	769	591	162	85.6	95.5	79.3
Max	415	176	111	1,606	856	889	1,536	1,944	572	164	180	112
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(1993)
Min	75.1	54.7	46.7	75.2	67.2	54.6	53.1	44.0	40.8	34.5	54.6	49.2
(WY)	(1990)	(1990)	(1990)	(2006)	(2006)	(1990)	(1990)	(1990)	(1990)	(1990)	(2004)	(2004)

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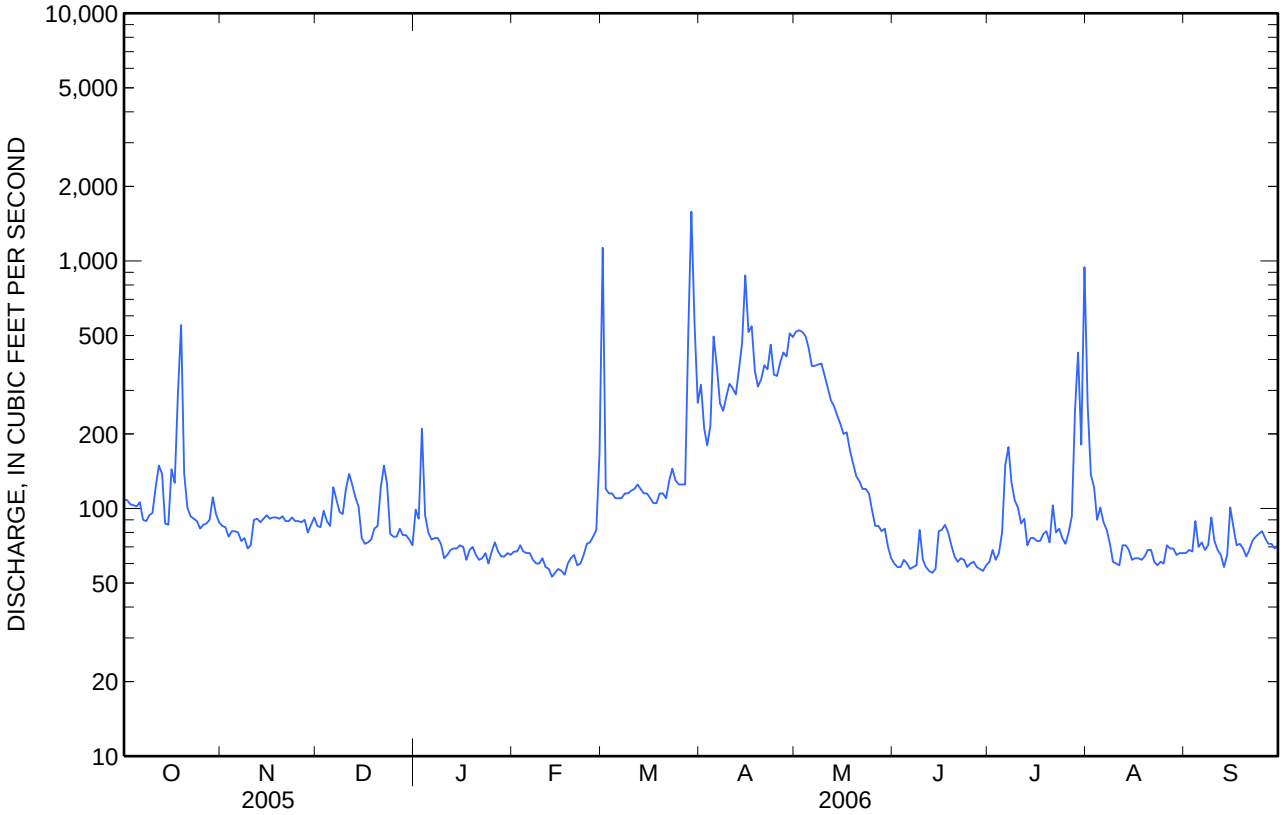
SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1990, 93, 2004-06	
Annual total	248,056		50,364			
Annual mean	680		138		328	
Highest annual mean					713	2005
Lowest annual mean					58.9	1990
Highest daily mean	13,500	Jan 11	1,580	Mar 29	13,500	Jan 11, 2005
Lowest daily mean	69	Nov 9	53	Feb 13	20	Jul 25, 1990
Annual seven-day minimum	76	Nov 4	56	Feb 11	22	Jul 21, 1990
Annual runoff (ac-ft)	492,000		99,900		237,800	
10 percent exceeds	1,740		324		1,000	
50 percent exceeds	212		85		93	
90 percent exceeds	88		61		46