

VIRGIN RIVER BASIN

1

09408175 ST. GEORGE-WASHINGTON CANAL NEAR WASHINGTON, UT

LOCATION.--Lat 37°06'54", long 113°26'24", in NE^{1/4}SE^{1/4}SE^{1/4} sec. 20, T. 42 S., R. 14 W., Washington County, Hydrologic Unit 15010008, on right bank immediately upstream from concrete flume, 0.2 mi downstream from diversion, 2.2 mi southeast of Washington.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Parshall flume since November 8, 1991. Elevation of gage is 2,680 ft above NGVD of 1929, from topographic map. Prior to November 8, 1991 at site 150 ft downstream at same datum. Water-quality monitoring equipment located 5 ft downstream.

REMARKS.-- Records good except for estimated daily discharges, which are poor. Completely regulated canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 116 ft³/s, Oct 22, 1989; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 115 ft³/s, Apr 3, gage height, 8.57 ft; no flow, Oct 14, Feb 28, 29.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	50	43	43	43	e30	80	69	58	60	63	40
2	53	40	42	43	43	e45	85	72	52	60	72	39
3	67	43	42	43	43	e45	83	76	58	56	72	55
4	72	40	42	43	43	e47	69	79	56	57	71	50
5	69	36	42	42	30	e45	67	67	65	62	67	59
6	69	47	42	42	15	e45	71	78	79	57	72	61
7	71	47	42	43	41	e45	72	73	79	50	59	62
8	66	48	43	43	41	e50	71	64	67	51	53	53
9	61	48	44	43	41	e55	70	64	61	56	49	52
10	53	53	43	43	41	e60	69	44	61	55	49	63
11	53	59	42	43	42	e55	67	57	63	54	48	66
12	54	57	42	43	41	e50	65	65	64	61	59	66
13	23	53	42	43	41	e50	71	60	60	59	62	65
14	0.00	43	42	42	42	e50	77	68	59	51	68	55
15	11	42	43	43	42	e55	76	68	60	54	73	60
16	51	42	31	43	42	e60	75	69	59	70	71	44
17	51	43	14	43	41	e55	77	69	62	73	77	40
18	50	42	40	43	41	e55	88	63	58	80	81	42
19	51	42	41	43	42	e55	91	61	57	73	79	55
20	51	42	41	43	41	e55	71	64	57	71	75	69
21	51	42	42	43	41	e60	67	61	60	65	71	65
22	52	43	42	43	42	e65	65	67	55	64	70	61
23	53	43	42	43	43	e70	72	72	44	69	67	58
24	53	42	42	43	44	e80	65	71	57	61	63	54
25	55	43	42	43	43	e75	68	63	58	63	58	47
26	54	43	50	43	44	e75	70	62	57	75	63	56
27	55	43	44	43	e28	e75	72	62	59	72	56	54
28	55	43	43	43	e0.00	e75	75	57	62	72	55	45
29	55	43	42	43	e0.00	e70	73	56	64	71	59	51
30	54	43	43	43	---	e70	78	60	66	67	61	49
31	55	---	43	43	---	e70	---	60	---	59	46	---
TOTAL	1,606.00	1,345	1,278	1,330	1,081.00	1,792	2,200	2,021	1,817	1,948	1,989	1,636
MEAN	51.8	44.8	41.2	42.9	37.3	57.8	73.3	65.2	60.6	62.8	64.2	54.5
MAX	72	59	50	43	44	80	91	79	79	80	81	69
MIN	0.00	36	14	42	0.00	30	65	44	44	50	46	39
AC-FT	3,190	2,670	2,530	2,640	2,140	3,550	4,360	4,010	3,600	3,860	3,950	3,250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004, BY WATER YEAR (WY)

MEAN	62.4	45.9	42.2	30.1	29.6	48.5	77.0	77.4	73.8	73.7	72.5	71.6
MAX	76.6	66.0	62.4	54.8	48.2	79.6	94.9	93.8	97.0	99.5	95.0	93.4
(WY)	(1996)	(2000)	(2002)	(1999)	(1994)	(1997)	(1989)	(1997)	(1993)	(1995)	(1993)	(1988)
MIN	47.7	27.3	30.8	1.74	0.00	0.00	58.9	61.6	41.3	42.5	50.8	46.4
(WY)	(1988)	(1999)	(1996)	(1989)	(1989)	(1989)	(1988)	(2003)	(2003)	(2003)	(2003)	(2003)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1988 - 2004

ANNUAL TOTAL	17,123.80		20,043.00								
ANNUAL MEAN	46.9		54.8								
HIGHEST ANNUAL MEAN											
LOWEST ANNUAL MEAN											
HIGHEST DAILY MEAN	79		Apr 16		91	Apr 19		116	Oct 22, 1989		
LOWEST DAILY MEAN	0.00		Feb 11		0.00	Oct 14		0.00	Feb 9, 1988		
ANNUAL SEVEN-DAY MINIMUM	0.00		Feb 11		27	Feb 24		0.00	Jan 2, 1989		
ANNUAL RUNOFF (AC-FT)	33,970		39,760			42,640					
10 PERCENT EXCEEDS	64		72			91					
50 PERCENT EXCEEDS	48		55			63					
90 PERCENT EXCEEDS	34		42			21					

e Estimated