

VIRGIN RIVER BASIN

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09404900 EAST FORK VIRGIN RIVER NEAR SPRINGDALE, UT

LOCATION.--Lat 37°09'51", long 112°57'28", in SE^{1/4}SW^{1/4}NW^{1/4} sec. 2, T. 42 S., R. 10 W., Washington County, Hydrologic Unit 15010008, Zion National Park, on right bank 0.7 mi upstream from Zion National Park boundary, 1.2 mi upstream from Shunes Creek, 2.7 mi southeast of Springdale, and 3.4 mi south-southeast of Zion National Park headquarters.

DRAINAGE AREA.--343 mi².

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,940 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Numerous irrigation diversions upstream of station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,100 ft³/s, Aug 10, 1997, gage height, 11.38 ft, from floodmarks, from rating curve extended above 200 ft³/s on basis of slope-area measurements at gage heights, 6.41 ft and 9.70 ft; minimum daily discharge, 26 ft³/s, Sep 14, 15, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)		Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	Aug 16	2105	*654	*6.92					

Minimum daily discharge, 29 ft³/s, Oct 7.

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	33	46	e45	42	e47	51	42	e47	e40	40	40	31
2	e34	49	e42	42	e45	52	41	e46	e40	39	46	69
3	e75	51	e40	42	e44	48	43	e52	e40	39	39	50
4	e40	53	e40	e44	e43	51	46	e58	e40	37	39	41
5	e35	53	43	e46	e42	51	47	e48	e40	36	39	31
6	e32	52	47	e44	e41	49	47	e45	e40	35	40	34
7	29	48	47	43	e39	52	e48	e48	e40	35	40	31
8	30	95	47	42	e41	54	e45	e56	40	36	40	31
9	31	105	47	41	e42	55	e45	e51	40	37	40	31
10	33	e70	e50	41	e44	57	e45	e50	40	37	40	31
11	38	e40	e51	41	e46	58	e47	e48	40	37	40	31
12	37	e40	e47	41	e180	59	e46	e52	e40	35	40	31
13	e30	e40	46	41	64	58	e47	e52	e41	33	40	31
14	e32	e40	45	41	55	55	e47	e52	41	32	40	31
15	e35	e40	44	41	49	54	e60	e50	41	31	39	31
16	e34	e39	43	41	48	96	e47	e60	41	32	59	31
17	e36	e39	46	41	49	82	e50	e70	41	33	46	31
18	e35	e39	47	42	47	60	e47	e50	41	35	35	31
19	41	e39	e42	42	49	54	e47	e47	41	38	35	32
20	44	e40	e46	42	48	52	e47	e42	41	40	33	31
21	43	e39	e44	43	49	50	e47	e45	42	40	36	32
22	43	e39	e45	e44	49	48	e47	41	42	39	32	33
23	e45	e39	e44	e45	51	47	e52	36	41	40	32	33
24	e36	e39	e43	e45	61	46	e47	36	41	50	34	33
25	e36	e39	e45	e46	75	46	e47	35	41	41	32	33
26	e40	e38	e43	e45	62	46	e48	e35	41	39	31	33
27	e40	e38	e44	e47	67	44	e48	e35	41	40	31	33
28	e43	e39	e45	e47	64	46	e47	e36	41	40	31	34
29	e45	e40	43	e46	---	46	e47	e36	41	40	31	34
30	44	e42	42	e47	---	44	e47	e37	41	40	30	35
31	44	---	42	e47	---	43	---	e38	---	39	31	---
TOTAL	1,193	1,410	1,385	1,342	1,541	1,654	1,411	1,434	1,220	1,165	1,161	1,024
MEAN	38.5	47.0	44.7	43.3	55.0	53.4	47.0	46.3	40.7	37.6	37.5	34.1
MAX	75	105	51	47	180	96	60	70	42	50	59	69
MIN	29	38	40	41	39	43	41	35	40	31	30	31
AC-FT	2,370	2,800	2,750	2,660	3,060	3,280	2,800	2,840	2,420	2,310	2,300	2,030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2003, BY WATER YEAR (WY)

MEAN	47.5	54.1	55.2	62.7	67.1	75.5	69.0	51.6	41.8	39.3	42.2	45.8
MAX	62.3	62.8	62.9	110	110	153	200	109	57.7	44.4	52.0	74.6
(WY)	(1998)	(1994)	(1997)	(1993)	(1993)	(1993)	(1993)	(1993)	(1993)	(1998)	(2001)	(1997)
MIN	38.5	47.0	44.7	43.3	53.8	45.6	36.8	35.4	34.4	31.7	36.3	29.6
(WY)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(1996)	(2002)	(2002)	(2002)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1992 - 2003
ANNUAL TOTAL	14,734	15,940	
ANNUAL MEAN	40.4	43.7	
HIGHEST ANNUAL MEAN			54.2
LOWEST ANNUAL MEAN			41.6
HIGHEST DAILY MEAN	105	Nov 9	85.1
LOWEST DAILY MEAN	26	Sep 14	26
ANNUAL SEVEN-DAY MINIMUM	27	Sep 12	27
ANNUAL RUNOFF (AC-FT)	29,220	31,620	39,290
10 PERCENT EXCEEDS	52	52	71
50 PERCENT EXCEEDS	37	42	49
90 PERCENT EXCEEDS	31	33	36

e Estimated

