

SAN JUAN RIVER BASIN

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09378170 SOUTH CREEK ABOVE RESERVOIR, NEAR MONTICELLO, UT

LOCATION.--Lat 37°50'48", long 109°22'08", in NE^{1/4}SW^{1/4}SW^{1/4} sec. 2, T. 34 S., R. 23 E., San Juan County, Hydrologic Unit 14080203, 200 ft upstream from west side of reservoir and 2 mi southwest of Monticello.

DRAINAGE AREA.--8.64 mi².

PERIOD OF RECORD.--October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,170 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 163 ft³/s, Nov 5, 1987, gage height, 4.17 ft; no flow many days in 2002, 2003, and 2004.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 34 ft³/s and maximum (*):

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)		Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	Jul 23	1430	*20	*1.52					

No flow on many days.

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	0.02	0.21	e0.10	e0.02	e0.01	0.00	1.8	1.3	1.3	0.17	0.06	0.01
2	0.06	0.31	e0.08	e0.02	e0.01	0.00	1.8	1.4	1.4	0.15	0.05	0.01
3	0.08	0.31	e0.07	e0.02	e0.01	0.00	1.9	1.0	1.2	0.15	0.13	0.01
4	0.08	0.25	e0.06	e0.01	e0.01	0.00	2.1	1.00	1.1	0.15	0.07	0.22
5	0.08	0.24	e0.05	e0.01	e0.01	0.00	2.5	0.94	1.2	0.14	0.49	0.04
6	0.08	0.23	e0.03	e0.01	e0.01	0.00	2.1	0.92	1.3	0.14	0.10	0.03
7	0.09	0.22	e0.01	e0.02	e0.01	0.02	2.1	0.98	1.4	0.13	0.05	0.02
8	0.08	0.25	0.00	e0.02	e0.01	0.12	2.1	1.3	1.4	0.12	0.04	0.02
9	0.06	0.26	0.00	e0.03	e0.01	0.06	1.9	2.2	1.3	0.13	0.02	0.01
10	0.09	0.34	0.00	e0.03	e0.01	0.06	1.5	2.1	1.3	0.14	0.02	0.02
11	0.09	0.29	0.01	e0.02	e0.01	0.16	1.2	2.1	1.1	0.14	0.02	0.02
12	0.04	0.31	e0.02	e0.02	e0.01	1.3	1.0	2.3	0.90	0.13	0.02	0.01
13	0.02	0.24	e0.02	e0.03	e0.01	1.4	0.90	2.0	0.66	0.11	0.02	0.01
14	0.04	0.10	e0.02	e0.03	e0.02	0.81	0.88	1.7	0.47	0.11	0.01	0.01
15	0.04	0.09	e0.02	e0.02	e0.02	0.74	0.78	1.4	0.34	0.10	0.01	0.01
16	0.04	0.08	e0.01	e0.03	e0.03	0.82	0.72	1.2	0.27	0.11	0.01	0.01
17	0.05	0.09	e0.02	e0.02	e0.03	0.95	0.75	1.1	0.24	0.08	0.01	0.01
18	0.06	0.12	e0.02	e0.02	e0.03	0.98	0.88	0.93	0.24	0.19	0.02	0.01
19	0.07	0.07	e0.02	e0.02	e0.03	1.3	0.91	0.92	0.24	0.10	0.02	1.1
20	0.08	0.08	e0.03	e0.01	e0.02	1.4	0.87	0.97	0.23	0.08	0.02	0.41
21	0.08	0.08	e0.03	e0.01	e0.01	1.8	0.71	1.0	0.23	0.07	0.13	0.19
22	0.07	e0.07	e0.02	e0.01	0.01	3.2	0.66	1.1	0.21	0.06	0.06	0.04
23	0.11	e0.05	e0.02	e0.02	0.00	4.3	0.62	1.2	0.19	0.89	0.03	0.03
24	0.15	e0.06	e0.02	e0.02	e0.01	6.2	0.65	1.1	0.19	0.09	0.02	0.03
25	0.15	e0.07	e0.02	e0.01	0.00	3.9	0.65	0.97	0.19	0.06	0.02	0.03
26	0.14	e0.07	e0.02	e0.01	0.00	2.5	0.58	0.84	0.20	0.07	0.01	0.02
27	0.13	e0.06	e0.01	e0.01	0.00	2.1	0.66	0.80	0.20	0.07	0.01	0.03
28	0.14	e0.06	e0.01	e0.02	0.00	2.1	0.78	0.86	0.19	0.06	0.01	0.02
29	0.13	e0.08	e0.01	e0.02	0.00	1.9	0.81	0.84	0.30	0.04	0.01	0.17
30	0.15	e0.09	e0.01	e0.02	---	1.8	1.1	0.78	0.20	0.04	0.01	0.06
31	0.18	---	e0.02	e0.02	---	1.8	---	0.90	---	0.06	0.01	---
TOTAL	2.68	4.78	0.78	0.56	0.34	41.72	35.91	38.15	19.69	4.08	1.51	2.61
MEAN	0.09	0.16	0.03	0.02	0.01	1.35	1.20	1.23	0.66	0.13	0.05	0.09
MAX	0.18	0.34	0.10	0.03	0.03	6.2	2.5	2.3	1.4	0.89	0.49	1.1
MIN	0.02	0.05	0.00	0.01	0.00	0.00	0.58	0.78	0.19	0.04	0.01	0.01
AC-FT	5.3	9.5	1.5	1.1	0.7	83	71	76	39	8.1	3.0	5.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2004, BY WATER YEAR (WY)

MEAN	0.19	0.49	0.16	0.14	0.24	1.75	5.03	6.29	2.59	0.53	0.25	0.22
MAX	0.45	5.40	0.64	0.45	1.08	5.65	19.0	33.0	11.6	3.51	0.52	0.91
(WY)	(1987)	(1988)	(1988)	(1988)	(1986)	(1995)	(1993)	(1993)	(1995)	(1995)	(1987)	(1991)
MIN	0.01	0.00	0.00	0.00	0.00	0.07	0.04	0.03	0.01	0.04	0.00	0.00
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2003)	(2002)	(2002)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1986 - 2004
ANNUAL TOTAL	87.22	152.81	
ANNUAL MEAN	0.24	0.42	1.49
HIGHEST ANNUAL MEAN			5.89
LOWEST ANNUAL MEAN			0.06
HIGHEST DAILY MEAN	1.9	May 29	60 May 17, 1993
LOWEST DAILY MEAN	0.00	Jan 1	0.00 Jun 13, 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00 Jun 13, 2002
ANNUAL RUNOFF (AC-FT)	173	303	1,080
10 PERCENT EXCEEDS	0.85	1.3	4.0
50 PERCENT EXCEEDS	0.05	0.08	0.19
90 PERCENT EXCEEDS	0.00	0.01	0.05

e Estimated

