

Surface Water Supply of the United States, 1966-70

Part 14. Pacific Slope Basins in Oregon and Lower Columbia River Basin

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 2135

*Prepared in cooperation with the States
of Oregon and Washington and with
other agencies*



14113200 MOSIER CREEK NEAR MOSIER, OREG.

LOCATION.--Lat 45°38'55", long 121°22'35", in NW 1/4 sec.19, T.2 N., R.12 E., Wasco County, on left bank 0.1 mile downstream from West Fork Mosier Creek, 2.5 miles southeast of Mosier, and at mile 3.0 (revised).

DRAINAGE AREA.--41.5 sq mi.

PERIOD OF RECORD.--April 1963 to September 1970.

GAGE.--Water-stage recorder. Altitude of gage is 425 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 25.6 cfs (18,550 acre-ft per year).

EXTREMES.--Maximums and minimums (discharge in cubic feet per second, gage height in feet).

Annual maximum discharge (*) and peak discharges above base (110 cfs), water years 1966-70

Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.	Date	Time	Disch.	G.H.
Jan. 6, 1966	1830	161	3.44	Feb. 3, 1968	0130	174	3.51	Mar. 18, 1969	0700	314	4.19
Jan. 14, 1966	1630	*238	3.85	Feb. 19, 1968	1730	*392	4.49	Mar. 28, 1969	2130	219	3.76
Mar. 9, 1966	2400	160	3.43	Jan. 7, 1969	0330	*638	5.22	Jan. 23, 1970	1200	*880	5.78
Jan. 28, 1967	1430	*348	4.33	Mar. 6, 1969	2230	140	3.31	Feb. 17, 1970	0530	219	3.61
								Mar. 15, 1970	0230	125	3.07

Annual minimum discharge, water years 1966-70

Wtr yr	Date	Discharge	Wtr yr	Date	Discharge
1966	July 30, Aug. 2, 4, 7, 21, 1966	1.8	1969	Sept. 16, 17, 1969.	1.97
1967	Aug. 16-18, 21, 1967	1.1	1970	Aug. 14, 1970	1.2
1968	July 31, 1968	.60			

Period of record: Maximum discharge, 4,790 cfs Dec. 23, 1964, from rating curve extended above 1,000 cfs on basis of slope-area measurement of peak flow (gage height, 8.9 ft, from flood profile); minimum, 0.60 cfs July 31, 1968.

REMARKS.--Records good. No regulation. Several small pumping diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	3.3	3.6	3.5	14	49	96	13	5.1	2.8	1.7	2.1
2	2.2	3.4	8.1	11	14	44	90	12	5.4	3.8	1.6	1.9
3	2.2	4.0	4.9	9.8	14	37	73	11	5.1	4.1	1.6	1.9
4	2.2	5.4	4.2	19	14	65	11	4.7	3.6	1.6	1.9	1.9
5	2.9	4.1	4.2	26	16	31	61	10	4.5	3.0	1.7	1.8
6	2.8	3.6	4.2	117	20	30	60	10	4.1	2.8	1.6	1.8
7	2.6	3.5	4.3	88	22	31	62	9.6	3.8	2.7	1.7	2.0
8	2.6	3.8	4.4	70	23	36	62	9.0	3.8	2.5	1.7	2.0
9	2.6	3.8	4.1	60	27	94	66	8.6	3.6	2.2	1.6	2.0
10	2.5	3.9	3.9	45	28	146	64	8.2	3.8	2.2	1.7	2.0
11	2.5	4.0	3.9	40	30	118	56	8.1	4.3	2.2	1.7	2.1
12	2.5	8.9	3.8	44	34	100	49	7.8	4.1	2.2	1.6	2.2
13	2.7	9.5	3.7	61	32	102	42	7.6	3.8	2.2	1.7	2.3
14	3.4	9.7	3.4	201	32	120	36	7.6	3.6	2.6	1.7	2.4
15	3.9	5.4	2.8	157	29	122	35	7.6	3.4	2.6	1.7	2.4
16	3.2	3.5	3.0	100	28	102	34	7.8	3.3	2.5	1.7	2.3
17	3.0	3.4	3.2	72	29	84	32	7.3	3.1	2.4	1.7	2.4
18	3.0	4.9	3.0	55	35	76	28	6.7	3.1	2.2	1.7	3.1
19	3.0	4.1	3.0	43	36	67	25	6.3	3.1	2.1	1.7	2.6
20	3.0	4.1	3.0	35	37	60	23	6.1	3.0	2.0	1.7	2.4
21	3.0	4.2	3.3	29	41	55	21	6.1	3.1	2.0	1.6	2.3
22	2.9	4.1	3.2	24	45	49	20	6.1	3.3	1.9	1.7	2.3
23	2.9	4.1	3.0	21	46	45	19	5.8	3.3	1.8	1.8	2.3
24	3.0	5.0	3.2	21	45	44	18	5.6	3.3	1.7	1.7	2.5
25	3.0	4.4	3.2	18	46	49	17	5.3	3.1	1.7	1.7	2.6
26	3.0	4.0	3.3	16	46	57	16	5.1	3.0	1.8	1.9	2.6
27	3.0	4.2	3.5	15	48	62	15	4.9	3.0	1.7	2.2	2.5
28	3.1	3.8	3.8	14	51	72	14	4.8	2.8	1.7	2.3	2.4
29	3.1	3.6	4.2	14	-----	75	14	4.7	2.8	1.7	2.2	2.4
30	3.1	3.5	3.8	15	-----	80	13	4.6	2.7	1.7	2.2	2.4
31	3.2	-----	3.6	15	-----	90	-----	4.5	-----	1.7	2.2	-----
TOTAL	88.4	137.2	116.8	1,459.3	882	2,157	1,226	232.8	109.1	72.1	54.9	67.9
MEAN	2.85	4.57	3.77	47.1	31.5	69.6	40.9	7.51	3.64	2.33	1.77	2.26
MAX	3.9	9.7	8.1	201	51	146	96	13	5.4	4.1	2.3	3.1
MIN	2.2	3.3	2.8	3.5	14	30	13	4.5	2.7	1.7	1.6	1.8
AC-FT	175	272	232	2,890	1,750	4,280	2,430	462	216	143	109	135

CAL YR 1965 TOTAL 9,699.6 MEAN 26.6 MAX 910 MIN 2.0 AC-FT 19,240
WTR YR 1966 TOTAL 6,603.5 MEAN 18.1 MAX 201 MIN 1.6 AC-FT 13,100

14113200 MOSIER CREEK NEAR MOSIER, OREG.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	3.9	7.1	31	112	24	26	18	5.4	2.1	1.5	1.3
2	2.6	3.9	6.9	30	86	23	34	18	5.6	2.1	1.4	1.3
3	2.6	3.9	6.4	36	71	21	44	17	5.6	2.1	1.2	1.5
4	2.5	3.9	7.1	43	62	19	54	17	5.0	1.9	1.2	1.4
5	2.5	4.1	8.3	43	54	17	55	17	4.8	1.8	1.3	1.5
6	2.6	4.7	8.4	40	48	17	50	16	4.6	1.8	1.4	1.6
7	2.7	4.4	10	35	42	15	46	15	4.2	1.8	1.4	1.6
8	2.7	4.3	9.4	31	38	15	42	15	4.2	1.8	1.5	1.5
9	2.7	4.2	8.9	27	34	15	39	15	4.2	1.9	1.4	1.4
10	2.7	4.3	9.3	24	31	16	37	15	4.1	1.9	1.4	1.6
11	2.8	5.3	9.3	24	28	15	35	14	4.1	1.9	1.4	2.4
12	3.0	7.6	15	25	26	14	32	13	4.1	1.8	1.3	2.2
13	3.0	8.5	40	30	37	14	31	12	4.1	1.7	1.3	1.8
14	3.0	11	53	40	38	14	29	11	3.9	1.7	1.3	1.7
15	3.0	9.0	39	41	42	13	27	11	3.5	1.6	1.3	1.7
16	3.0	11	29	39	48	14	25	9.8	3.1	1.5	1.2	1.6
17	2.9	8.3	23	33	56	14	26	9.4	3.0	1.5	1.2	1.6
18	3.0	7.0	19	30	66	14	31	9.1	2.8	1.6	1.2	1.6
19	3.0	6.7	18	37	62	13	30	8.8	3.0	1.6	1.3	1.7
20	5.1	7.4	18	101	55	14	29	8.2	2.8	1.6	1.2	1.6
21	6.2	7.5	16	89	50	14	29	7.7	3.1	1.5	1.2	1.7
22	8.7	6.6	15	68	44	15	28	7.4	3.5	1.6	1.3	1.6
23	6.2	6.0	14	55	39	17	27	6.6	3.3	1.6	1.3	1.5
24	4.6	5.6	12	47	36	17	26	6.6	3.0	1.5	1.4	1.5
25	4.1	5.8	14	41	33	17	25	6.4	2.8	1.5	1.4	1.5
26	4.0	6.5	12	44	29	17	25	5.9	2.7	1.4	1.3	1.6
27	4.0	5.8	11	104	26	17	25	5.9	2.5	1.5	1.4	1.5
28	3.8	5.6	10	298	25	17	23	6.1	2.5	1.5	1.3	1.6
29	3.8	5.5	14	314	-----	17	21	6.1	2.4	1.4	1.3	1.7
30	3.9	5.4	18	248	-----	17	20	5.9	2.2	1.4	1.3	1.9
31	3.9	-----	21	161	-----	23	-----	5.6	-----	1.5	1.4	-----
TOTAL	111.0	183.7	502.1	2,209	1,318	509	971	339.5	110.1	52.1	41.0	48.7
MEAN	3.58	6.12	16.2	71.3	47.1	16.4	32.4	11.0	3.67	1.68	1.32	1.62
MAX	8.7	11	53	314	112	24	55	18	5.6	2.1	1.5	2.4
MIN	2.4	3.9	6.4	24	25	13	20	5.6	2.2	1.4	1.2	1.3
AC-FT	220	364	996	4,380	2,610	1,010	1,930	673	218	103	81	97

CAL YR 1966 TOTAL 7,057.9 MEAN 19.3 MAX 201 MIN 1.6 AC-FT 14,000
WTR YR 1967 TOTAL 6,395.2 MEAN 17.5 MAX 314 MIN 1.2 AC-FT 12,680

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	3.9	4.5	15	15	52	7.9	5.1	3.2	1.5	.72	1.7
2	2.7	3.5	4.5	13	52	45	7.9	4.8	3.4	1.3	.72	1.6
3	4.4	3.5	5.0	11	166	39	7.5	4.6	3.2	1.2	.83	1.6
4	3.0	3.3	5.5	10	162	34	7.9	4.6	3.0	1.1	.83	1.6
5	2.5	3.3	6.1	9.1	126	31	7.9	4.6	2.8	1.1	.90	1.6
6	2.4	3.3	5.6	7.9	86	28	7.9	4.6	2.8	1.1	.90	1.5
7	2.5	3.3	5.2	8.5	65	25	7.5	4.6	2.8	1.0	.90	1.5
8	2.4	3.5	5.0	8.2	52	22	7.2	4.4	2.7	.97	.90	1.5
9	2.4	4.1	4.8	8.3	43	20	6.9	4.1	2.7	.90	1.1	1.6
10	2.4	5.2	5.9	8.4	36	18	6.6	4.1	2.5	.90	1.1	1.6
11	2.5	5.2	8.8	7.7	31	16	6.3	4.1	2.5	.90	1.2	1.6
12	3.0	5.4	7.7	7.1	27	16	6.3	3.8	2.7	1.1	1.1	1.6
13	3.0	5.0	7.4	7.5	23	14	6.0	4.1	2.7	1.1	1.1	1.8
14	3.0	5.0	5.5	9.9	20	15	6.0	3.8	2.7	1.2	1.3	2.2
15	2.7	4.8	14	23	18	15	6.6	4.1	2.5	1.2	1.4	2.1
16	2.7	4.2	8.8	25	16	14	6.9	3.8	2.4	1.3	1.8	1.8
17	2.5	4.1	5.4	22	16	12	6.6	3.6	2.2	1.1	1.7	2.2
18	2.5	4.2	5.4	19	34	12	6.3	3.6	2.2	1.1	1.7	2.7
19	2.7	4.1	4.8	17	282	11	6.0	3.8	2.2	1.0	2.0	2.4
20	2.7	3.9	4.6	17	304	9.9	6.0	5.1	2.2	1.4	2.1	2.1
21	3.3	3.9	5.2	25	261	9.5	6.0	4.4	2.1	1.3	1.7	2.0
22	3.7	3.9	11	34	240	9.1	5.7	4.1	2.1	1.2	1.6	2.0
23	5.0	3.7	16	34	233	8.7	5.4	3.6	2.2	1.0	2.0	2.0
24	4.1	4.1	15	32	190	8.7	5.4	3.4	2.1	1.0	2.9	2.0
25	4.1	5.9	33	30	144	10	5.4	3.8	1.7	1.0	2.9	2.0
26	3.7	4.8	58	28	110	9.9	5.4	3.8	1.2	1.0	3.0	1.8
27	4.8	4.4	45	23	87	9.5	5.1	3.8	1.3	.97	3.2	1.8
28	3.8	3.9	33	28	71	9.5	4.8	3.6	1.5	.90	2.5	1.8
29	6.1	5.0	24	24	60	8.7	4.8	3.4	1.6	.83	2.1	1.8
30	4.6	6.0	20	17	-----	8.3	4.8	3.2	1.7	.77	1.8	1.7
31	4.1	-----	16	15	-----	7.9	-----	3.2	-----	.77	1.7	-----
TOTAL	107.5	128.4	410.2	544.6	2,970	548.7	191.0	125.6	70.9	33.21	49.70	55.2
MEAN	3.47	4.28	13.2	17.6	102	17.7	6.37	4.05	2.36	1.07	1.60	1.84
MAX	9.8	6.0	58	34	304	52	7.9	5.1	3.4	1.5	3.2	2.7
MIN	2.2	3.3	4.5	7.1	15	7.9	4.8	3.2	1.2	.77	.72	1.5
AC-FT	213	255	814	1,080	5,890	1,090	379	249	141	66	99	109

CAL YR 1967 TOTAL 6,244.50 MEAN 17.1 MAX 314 MIN 1.2 AC-FT 12,390
WTR YR 1968 TOTAL 5,235.01 MEAN 14.3 MAX 304 MIN .72 AC-FT 10,380

