

Appendix I

Streamflow

Appendix Streamflow

The data in this appendix is from incidental streamflow measurements taken in summer 1994 and from the US Geological Survey streamgage Jackson Creek near Tiller, OR described below.

Gage No. 14307700 Jackson Creek near Tiller, OR

Location-- Lat 42 57'15", Long 122 49'40", in SW 1/4 NE 1/4 sec 21 T 30S, R 1 W, Douglas County, Hydrologic Unit 17100302, on right bank 0.5 mi upstream from Chapman Creek, 0.8 mi downstream from Beaver Creek, 6.5 mi northeast of Tiller, and at mile 3.0. Records include flow of Chapman Creek.

Drainage Area-- 152 mi², at cableway 0.6 mi downstream where all discharge measurements are made.

Period of Record-- October 1955 to September 1986.

Gage-- Water-stage recorder. Datum of gage is 1,240.25 feet above National Geodetic Vertical Datum of 1929 (levels are by Douglas County Water Resources Department).

Remarks-- No regulation or diversion upstream from station.

Average Discharge--31 years, 319 ft³/sec, 28.50 in/yr, 231,100 ac-ft/yr.

Extremes for Period of Record-- Maximum discharge, 21,100 ft³/sec Dec. 22, 1964, gage height, 18.0 ft, from floodmark, from rating curve extended above 5,100 ft³/sec and basin runoff comparison; minimum discharge, 11 ft³/sec Jan. 6, 1977, Nov. 13, 1978, result of freezeup.

JACKSON CREEK NEAR TILLER

MAGNITUDE AND PROBABILITY OF ANNUAL LOW FLOW BASED ON PERIOD OF RECORD 1957-1986

Discharge in CFS for indicated recurrence interval, in years, and annual non exceedance probability in percent, one day duration

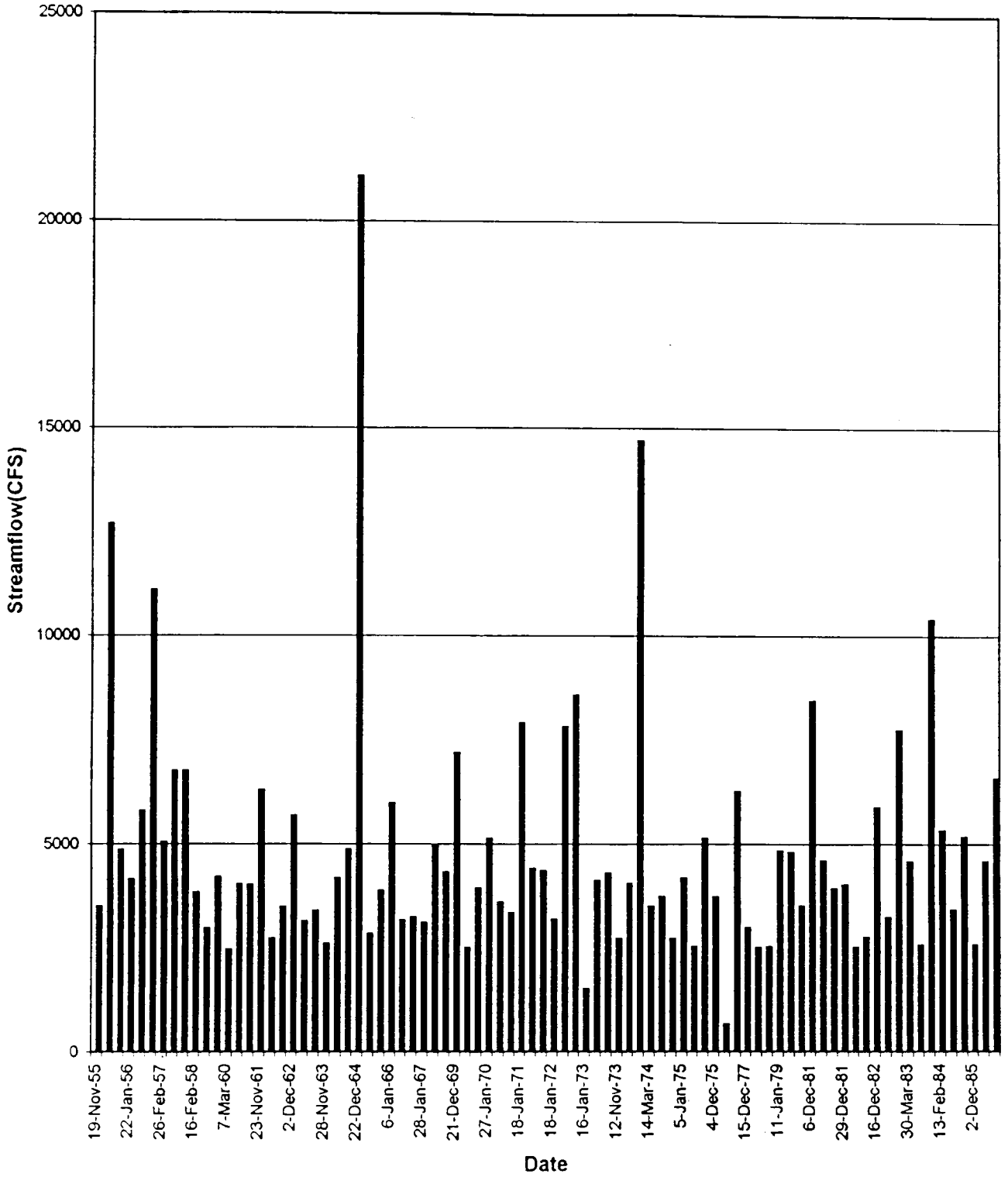
2 yr	5 yr	10 yr	20 yr	50 yr	100 yr	.....	Interval
50%	20%	10%	5%	2%	1%	.....	Probability
17	15	14	13	12	11	.....	Discharge(CFS)

MAGNITUDE AND PROBABILITY OF INSTANTANEOUS PEAK FLOW BASED ON PERIOD OF RECORD 1957-1986

Discharge in CFS for indicated recurrence interval, in years, and annual exceedance probability, in percent

1.25 yr	2 yr	5 yr	10yr	25yr	50yr	100yr	.....	Interval
80%	50%	20%	10%	4%	2%	1%	.....	Probability
3630	5740	9130	11600	15100	17900	20900	.....	Discharge(CFS)

Jackson Creek Peak Flows 1955-1986



JACKSON CREEK STREAMFLOW						
August - September 1994						
DATE	STREAM	CFS	MI ²	CFS/MI ²		
1994						
(calc)	Jackson below Beaver	12.72	159.89	0.08		
22-Aug	Beaver mouth	0.92	35.10	0.03		
19-Aug	Beaver above Beaver Lake	1.01	23.31	0.04		
17-Sep	Devil's Knob mouth	0.69	3.31	0.21		
19-Aug	Beaver above Devil's Knob	0.34	11.74	0.03		
17-Sep	Pipestone	0.19	5.06	0.04		
22-Aug	Jackson above Beaver	11.80	117.53	0.10		
17-Aug	Coffin	0.18	1.94	0.09		
22-Aug	Jackson above Coffin	11.82	107.52	0.11		
unknown	Freezeout	0.04	3.03	0.01		
19-Aug	Tributary C	0.12	2.00	0.06		
18-Sep	Whiskey & Soup	0.09	3.96	0.02		
20-Aug	Deep Cut Creek	0.06	4.00	0.02		
29-Aug	Squaw Creek	5.32	12.99	0.41		
15-Sep	Serviceberry	0.06	2.42	0.02		
26-Aug	Donegan	4.19	6.81	0.62		
15-Sep	Squaw above Donegan	1.21	5.12	0.24		
29-Aug	Jackson above Squaw	6.41	57.57	0.11		
18-Aug	Ralph	0.05	1.17	0.04		
19-Aug	Tallow	0.16	2.14	0.07		
1-Sep	Luck	0	1.02	0.00		
18-Aug	Tributary D	0.02	1.27	0.02		
23-Aug	Eden	0.06	2.10	0.03		
1-Sep	Two Mile	0	1.13	0.00		
29-Aug	Jackson above Two mile	5.33	42.23	0.13		
1-Sep	Bean	0	1.14	0.00		
21-Aug	Paradise	0.62	1.53	0.41		
15-Sep	Cougar	0.08	3.00	0.03		
17-Sep	Tributary E	0.07	1.31	0.05		
29-Aug	Falcon	1.16	12.85	0.09		
15-Sep	Abbott	0.33	4.52	0.07		
17-Sep	Falcon tributary	0.06	2.09	0.03		
29-Aug	Jackson above Falcon	2.36	14.72	0.16		
15-Sep	Saboo	0.02	0.092	0.22		
15-Sep	Lonewoman	1.36	7.51	0.18		
15-Sep	Lonewoman tributary	0.06	1.07	0.06		
15-Sep	Triangle	0.62	0.59	1.05		
15-Sep	Jackson above Lonewoman	0.86	5.85	0.15		
30-Aug	Tributary F	0.06	0.81	0.07		
20-Aug	Tributary G	0	0.48	0.00		