

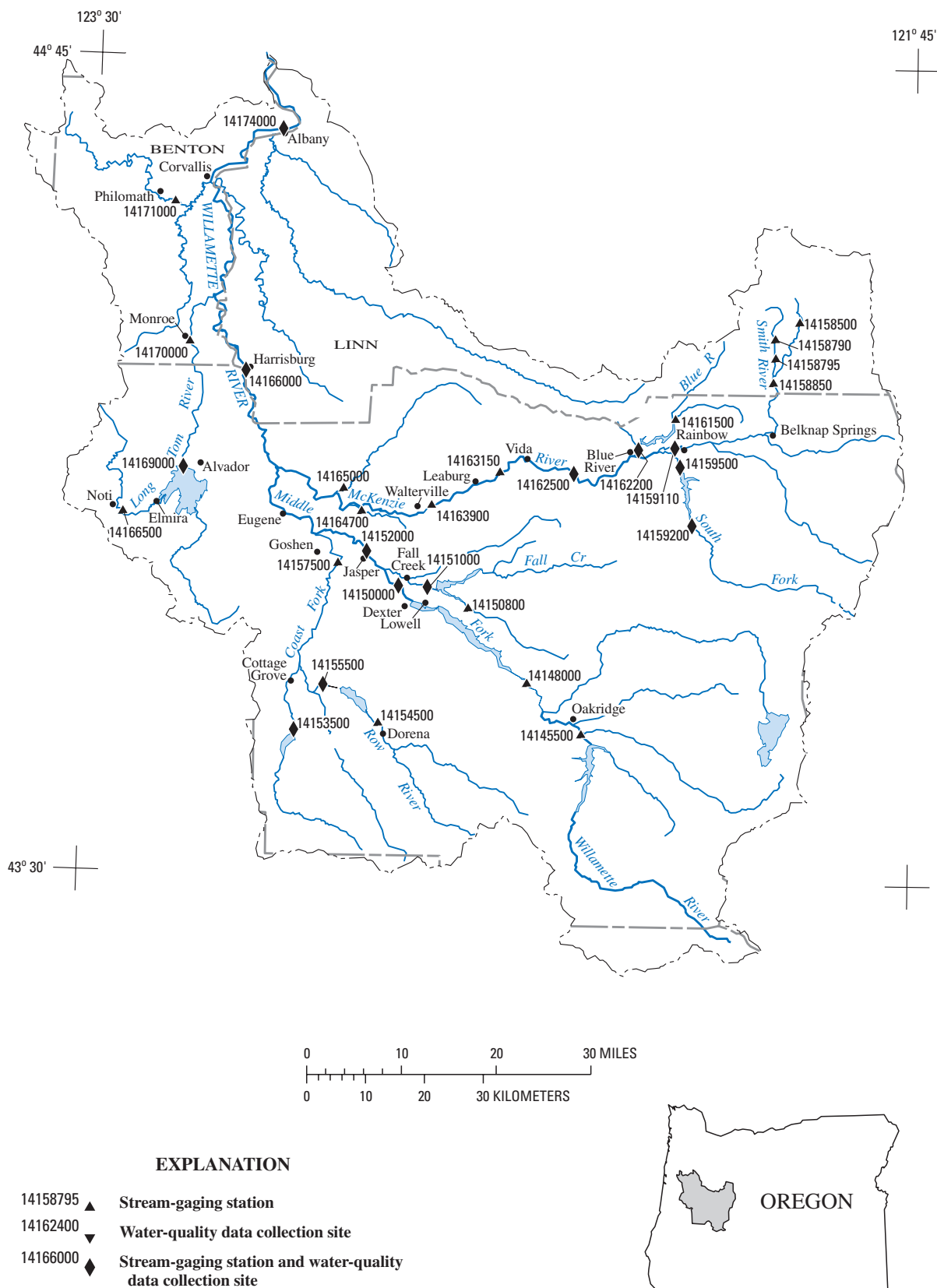


Figure 21. Location of surface-water and water-quality stations in the Willamette River Basin upstream from the Luckiamute River.

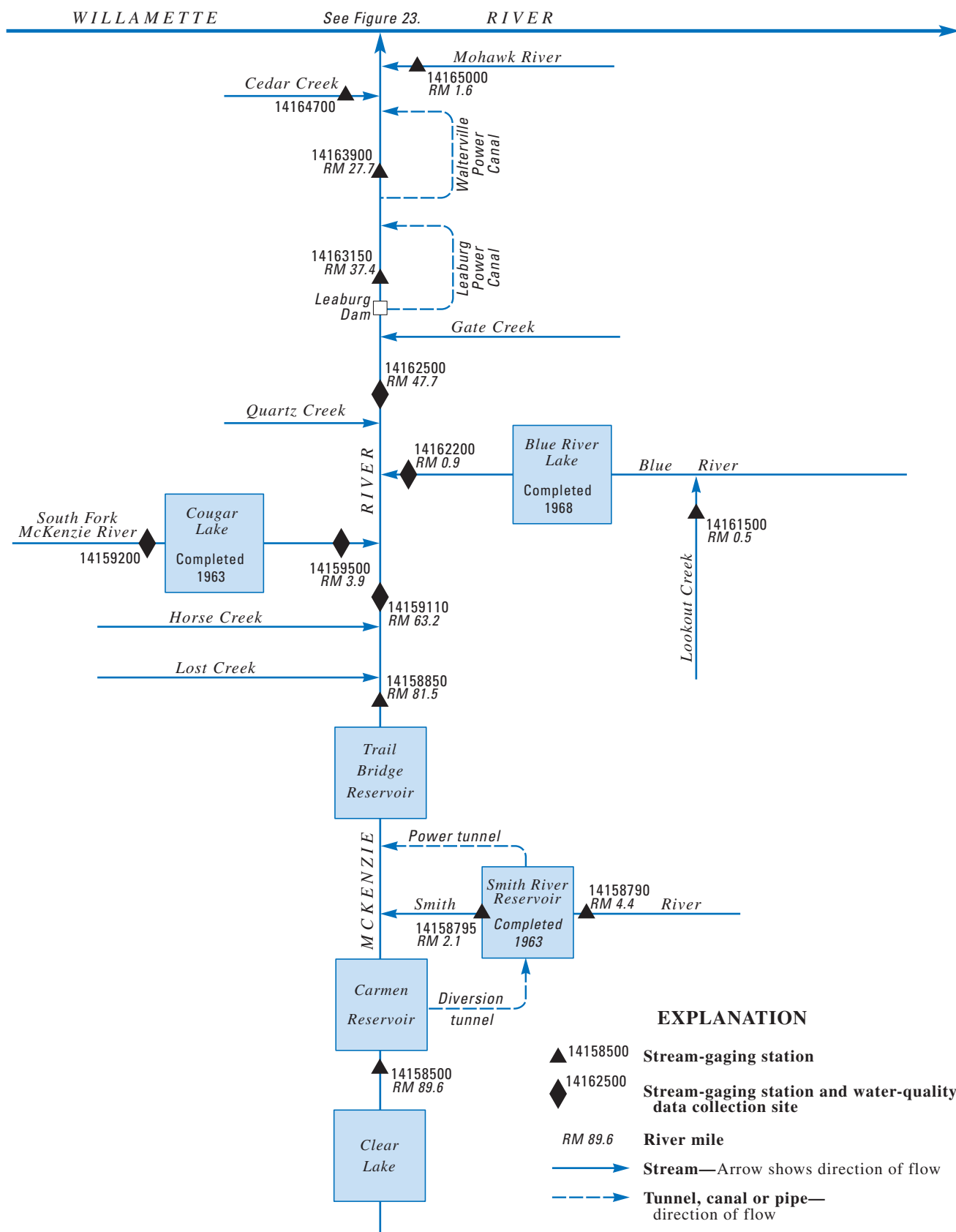


Figure 24. Schematic diagram showing gaging stations and diversions in the McKenzie River Basin.

WILLAMETTE RIVER BASIN

14158500 MCKENZIE RIVER AT OUTLET OF CLEAR LAKE, OR

LOCATION.--Lat 44°21'40", long 121°59'40", in SE ¼ sec.8, T.14 S., R.7 E., Linn County, Hydrologic Unit 17090004, Willamette National Forest, on west bank of Clear Lake in narrow channel, 150 ft upstream from outlet, and at mile 89.6.

DRAINAGE AREA.--92.4 mi², hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.--June 1912 to September 1915, October 1947 to current year. Monthly discharge only for some periods, published in WSP 1318.

REVISED RECORDS.--WSP 1288: 1949. WSP 1318: 1915(M). WSP 1738: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,015.32 ft above NGVD of 1929 (levels by Eugene Water and Electric Board). June 20, 1912 to July 31, 1915, nonrecording gage at site 1.0 mi north at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by natural storage in lake. At high stages an undetermined flow enters numerous sinkholes in lava rock along south edge of lake upstream from station.

AVERAGE DISCHARGE.--61 years (water years 1913-15, 1948-2005), 453 ft³/s, 66.65 in/yr, 328,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,300 ft³/s Dec. 23, 1964, gage height, 8.15 ft; minimum discharge, 116 ft³/s Oct. 27, 28, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 574 ft³/s Apr. 4, gage height, 2.79 ft; minimum discharge, 165 ft³/s Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	243	254	235	377	378	253	496	460	411	295	219	188
2	239	261	232	366	374	253	537	448	405	291	218	187
3	236	269	230	359	370	253	561	436	400	287	216	186
4	232	278	227	352	366	253	571	429	395	282	215	185
5	229	288	225	345	365	253	560	421	395	279	213	184
6	227	298	228	335	360	252	547	417	393	276	212	183
7	224	302	230	327	354	251	551	410	390	272	211	182
8	222	301	252	316	345	251	561	410	383	269	210	182
9	222	298	275	303	337	251	550	416	378	266	208	182
10	217	293	307	286	330	251	533	417	375	264	208	184
11	215	288	360	276	324	251	534	414	372	260	206	181
12	214	282	424	268	320	251	534	417	370	257	205	180
13	213	278	493	260	315	250	522	421	367	255	204	180
14	211	272	530	252	302	250	508	423	363	253	203	179
15	210	266	564	248	292	249	497	423	359	251	202	179
16	208	261	566	245	283	248	493	425	359	249	201	178
17	211	255	562	244	278	249	491	430	360	246	200	177
18	216	251	560	259	272	246	493	445	355	245	199	176
19	213	246	558	270	270	249	490	460	350	243	199	176
20	212	240	549	303	269	249	482	477	346	240	198	175
21	215	236	529	330	263	253	471	493	343	238	196	174
22	220	233	504	347	260	257	464	494	339	236	196	173
23	227	229	485	359	258	264	469	488	335	234	195	173
24	235	227	469	366	256	270	476	482	331	232	194	172
25	246	230	448	370	254	269	486	473	326	230	193	171
26	254	228	430	375	253	278	484	462	321	228	193	170
27	256	230	413	381	253	328	480	449	316	226	191	170
28	255	235	404	382	254	356	478	440	311	224	190	169
29	253	237	399	386	---	399	474	431	305	223	190	168
30	253	237	392	383	---	442	470	421	300	221	189	168
31	254	---	384	381	---	467	---	414	---	220	188	---
TOTAL	7,082	7,803	12,464	10,051	8,555	8,596	15,263	13,646	10,753	7,792	6,262	5,332
MEAN	228	260	402	324	306	277	509	440	358	251	202	178
MAX	256	302	566	386	378	467	571	494	411	295	219	188
MIN	208	227	225	244	253	246	464	410	300	220	188	168
AC-FT	14,050	15,480	24,720	19,940	16,970	17,050	30,270	27,070	21,330	15,460	12,420	10,580
CFSM	2.47	2.81	4.35	3.51	3.31	3.00	5.51	4.76	3.88	2.72	2.19	1.92
IN.	2.85	3.14	5.02	4.05	3.44	3.46	6.14	5.49	4.33	3.14	2.52	2.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2005, BY WATER YEAR (WY)

MEAN	246	363	532	516	526	506	596	671	556	383	297	250
MAX	428	828	1,209	1,123	1,313	1,205	873	1,178	1,202	737	499	392
(WY)	(1951)	(1951)	(1965)	(1997)	(1996)	(1972)	(1997)	(1949)	(1974)	(1950)	(1974)	(1974)
MIN	122	141	209	191	180	224	341	319	203	173	149	132
(WY)	(1993)	(1988)	(1977)	(1977)	(1977)	(1977)	(1955)	(1992)	(1992)	(1977)	(1992)	(1992)

WILLAMETTE RIVER BASIN

14158500 MCKENZIE RIVER AT OUTLET OF CLEAR LAKE, OR—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1913 - 2005	
ANNUAL TOTAL	152,162		113,599			
ANNUAL MEAN	416		311		453	
HIGHEST ANNUAL MEAN					688	1997
LOWEST ANNUAL MEAN					241	1977
HIGHEST DAILY MEAN	1,030	Jan 30	571	Apr 4	3,100	Dec 23, 1964
LOWEST DAILY MEAN	208	Oct 16	168	Sep 29	116	Oct 27, 1992
ANNUAL SEVEN-DAY MINIMUM	212	Oct 14	170	Sep 24	117	Oct 22, 1992
ANNUAL RUNOFF (AC-FT)	301,800		225,300		328,300	
ANNUAL RUNOFF (CFSM)	4.50		3.37		4.91	
ANNUAL RUNOFF (INCHES)	61.26		45.73		66.65	
10 PERCENT EXCEEDS	642		482		788	
50 PERCENT EXCEEDS	394		269		392	
90 PERCENT EXCEEDS	236		193		208	



2005 Water Year
WILLAMETTE RIVER BASIN

14158500 MCKENZIE RIVER AT OUTLET OF CLEAR LAKE, OR

Latitude: 44° 21' 40"

Longitude: 121° 59' 40"

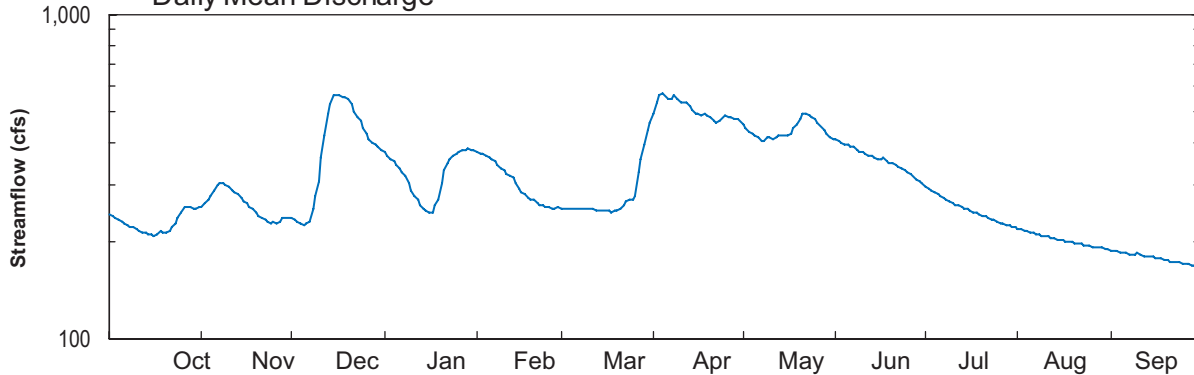
Hydrologic Unit Code: 17090004

Linn County

Datum: 3015.32 feet

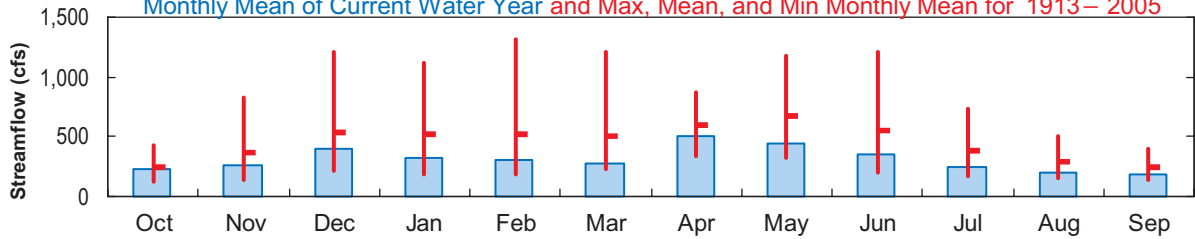
Drainage Area: 92.4 mi²

Daily Mean Discharge

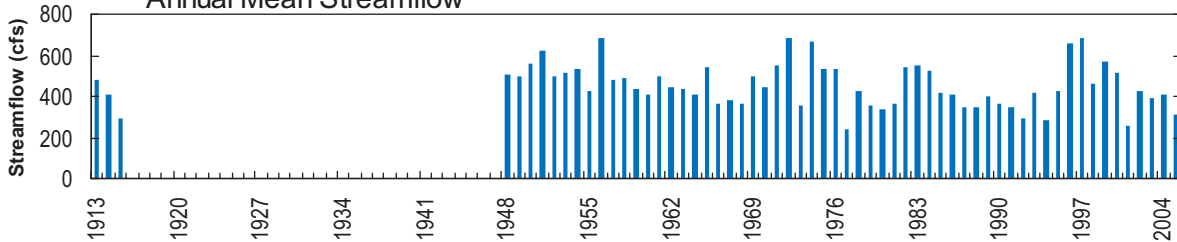


Monthly Statistics

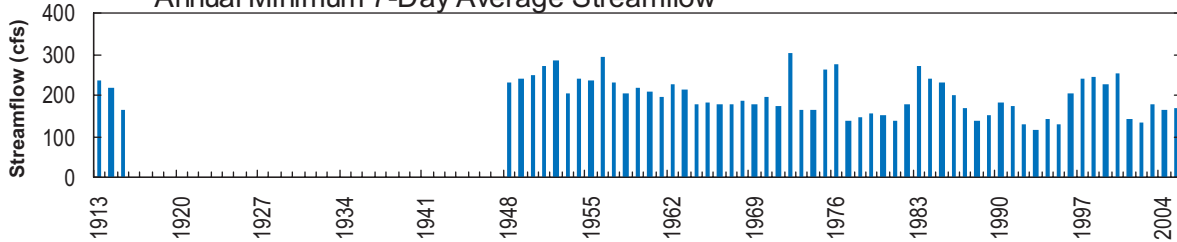
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1913–2005



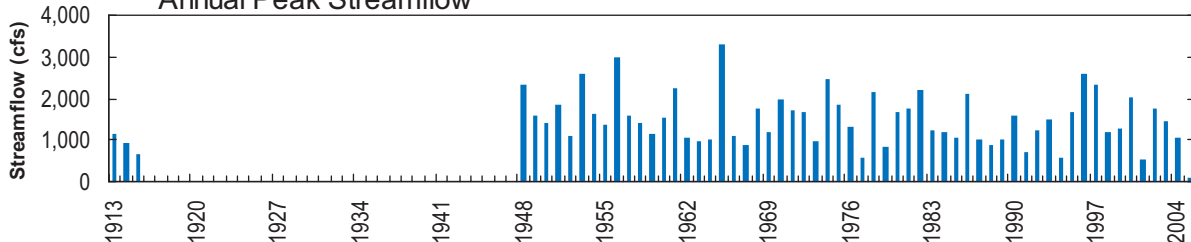
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



WILLAMETTE RIVER BASIN

14158790 SMITH RIVER ABOVE SMITH RIVER RESERVOIR, NEAR BELKNAP SPRINGS, OR

LOCATION.--Lat 44°20'05", long 122°02'45", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.24, T.14 S., R.6 E., Linn County, Hydrologic Unit 17090004, in Willamette National Forest, on right bank 200 ft upstream from Smith River Reservoir, 0.7 mi downstream from Browder Creek, 10 mi north of town of Belknap Springs, and at mile 4.4.

DRAINAGE AREA.--16.2 mi².

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WDR OR 80-2: 1978(P).

GAGE.--Water-stage recorder. Datum of gage is 2,610.00 ft above NGVD of 1929 (levels by Eugene Water and Electric Board). Prior to Sept. 10, 1964, at datum 1.56 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Eugene Water and Electric Board telemetry at station. No regulation or diversion upstream from station.

AVERAGE DISCHARGE.--45 years (water years 1961-2005), 88.2 ft³/s, 74.00 in/yr, 63,920 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,160 ft³/s Dec. 22, 1964, gage height, 11.9 ft, from floodmark, from rating curve extended above 560 ft³/s, on basis of slope-area measurement of peak flow; minimum discharge, 1.2 ft³/s Oct. 13, 1991, result of log jam.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 27	1500	*971	*8.30				
						No other peak greater than base discharge.	

Minimum discharge, 4.2 ft³/s, Sept. 8, 9, 19-30, gage height, 5.22 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	46	30	32	49	37	143	71	41	19	6.9	5.0
2	9.1	107	28	29	46	36	138	68	39	18	6.8	4.9
3	8.9	136	27	27	43	35	129	62	36	18	6.6	4.9
4	8.4	95	27	25	45	33	122	64	33	17	6.5	4.9
5	8.2	74	25	25	45	32	108	61	36	16	6.2	4.8
6	9.0	60	26	24	42	31	113	66	46	16	6.1	4.6
7	8.5	51	28	23	39	31	137	64	55	16	6.1	4.6
8	8.8	44	180	23	37	31	141	68	55	15	6.0	4.5
9	14	39	368	22	35	30	138	103	48	16	5.8	4.4
10	11	35	500	20	34	30	121	116	44	15	5.7	7.5
11	9.7	31	487	19	33	30	147	120	42	15	5.6	6.2
12	9.0	28	302	18	34	30	131	104	42	14	5.6	5.0
13	8.5	26	197	18	34	28	112	87	38	13	5.6	4.7
14	8.3	24	237	17	32	27	100	77	36	13	5.5	4.6
15	7.8	23	197	19	30	24	90	84	33	12	5.3	4.6
16	7.7	22	148	26	29	23	121	113	35	12	5.3	4.6
17	13	20	121	45	28	25	142	124	40	11	5.3	4.6
18	42	22	107	245	27	25	122	145	37	10	5.3	4.6
19	42	20	97	197	31	35	111	184	36	10	5.3	4.4
20	29	19	85	155	41	43	102	154	35	9.7	5.1	4.2
21	31	18	73	125	42	43	100	133	32	9.3	5.1	4.2
22	40	17	65	105	40	44	102	120	30	9.1	5.1	4.2
23	57	17	58	93	38	44	124	100	28	8.9	5.1	4.2
24	52	19	52	82	37	43	128	85	26	8.6	5.1	4.2
25	47	47	48	75	35	40	118	73	24	8.4	4.9	4.2
26	41	44	46	72	35	100	109	64	22	8.0	4.8	4.2
27	35	38	42	72	34	726	105	57	22	7.7	4.6	4.2
28	31	34	39	65	37	441	96	52	24	7.7	4.6	4.2
29	30	32	38	63	---	245	85	48	21	7.4	4.8	4.2
30	37	31	35	57	---	169	75	43	20	7.1	5.1	4.5
31	46	---	33	54	---	137	---	39	---	7.1	5.1	---
TOTAL	719.6	1,219	3,746	1,872	1,032	2,648	3,510	2,749	1,056	375.0	170.9	139.9
MEAN	23.2	40.6	121	60.4	36.9	85.4	117	88.7	35.2	12.1	5.51	4.66
MAX	57	136	500	245	49	726	147	184	55	19	6.9	7.5
MIN	7.7	17	25	17	27	23	75	39	20	7.1	4.6	4.2
AC-FT	1,430	2,420	7,430	3,710	2,050	5,250	6,960	5,450	2,090	744	339	277
CFSM	1.43	2.51	7.46	3.73	2.28	5.27	7.22	5.47	2.17	0.75	0.34	0.29
IN.	1.65	2.80	8.60	4.30	2.37	6.08	8.06	6.31	2.42	0.86	0.39	0.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2005, BY WATER YEAR (WY)

MEAN	22.3	109	148	137	131	120	146	147	71.8	16.6	6.70	7.23
MAX	95.4	239	404	293	371	321	270	318	260	51.5	12.9	23.5
(WY)	(1998)	(1996)	(1965)	(1970)	(1996)	(1993)	(1993)	(1971)	(1974)	(1971)	(1999)	(1978)
MIN	3.33	4.47	9.88	13.5	12.8	41.2	50.3	28.1	8.63	5.23	3.22	3.71
(WY)	(1988)	(1994)	(1977)	(1977)	(1977)	(1992)	(1967)	(1992)	(1992)	(1992)	(1992)	(2003)

WILLAMETTE RIVER BASIN

14158790 SMITH RIVER ABOVE SMITH RIVER RESERVOIR, NEAR BELKNAP SPRINGS, OR—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1961 - 2005	
ANNUAL TOTAL	26,820.2		19,237.4		88.2	
ANNUAL MEAN	73.3		52.7		136	
HIGHEST ANNUAL MEAN					1974	
LOWEST ANNUAL MEAN					37.1	
HIGHEST DAILY MEAN	612	Jan 29	726	Mar 27	2,590	Dec 22, 1964
LOWEST DAILY MEAN	4.4	Aug 21	4.2	Sep 20	2.5	Sep 15, 1981
ANNUAL SEVEN-DAY MINIMUM	4.7	Aug 15	4.2	Sep 20	2.6	Sep 12, 1981
ANNUAL RUNOFF (AC-FT)	53,200		38,160		63,920	
ANNUAL RUNOFF (CFSM)	4.52		3.25		5.45	
ANNUAL RUNOFF (INCHES)	61.59		44.17		74.00	
10 PERCENT EXCEEDS	148		122		209	
50 PERCENT EXCEEDS	56		33		52	
90 PERCENT EXCEEDS	6.9		5.1		4.9	

WILLAMETTE RIVER BASIN

14158790 SMITH RIVER ABOVE SMITH RIVER RESERVOIR, NEAR BELKNAP SPRINGS, OR—Continued



2005 Water Year
WILLAMETTE RIVER BASIN

14158790 SMITH R AB SMITH R RES NR BELKNAP SPRGS, OR

Latitude: 44° 20' 05"

Longitude: 122° 02' 45"

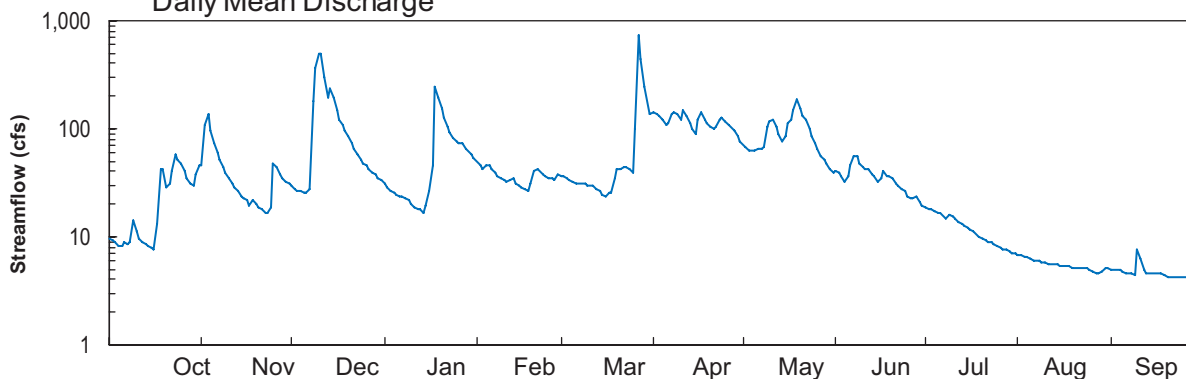
Hydrologic Unit Code: 17090004

Linn County

Datum: 2610.00 feet

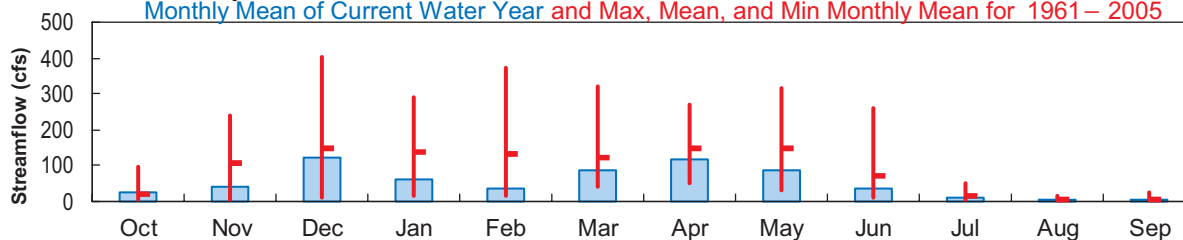
Drainage Area: 16.2 mi²

Daily Mean Discharge

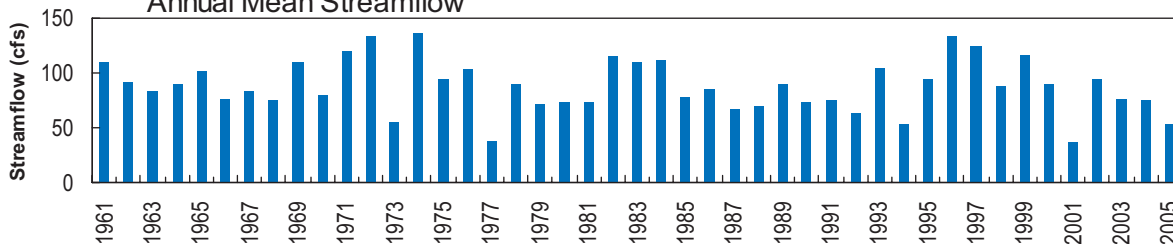


Monthly Statistics

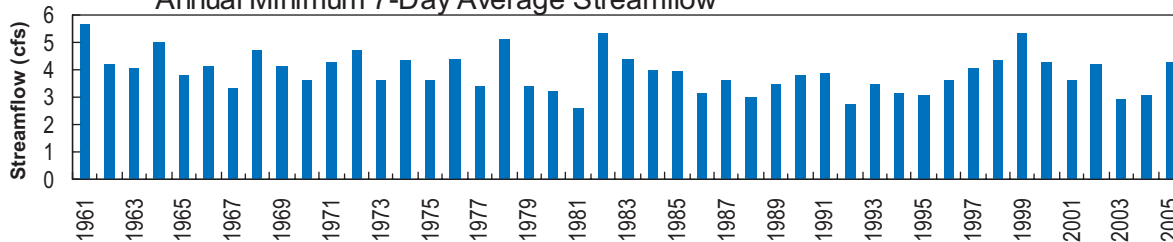
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1961 – 2005



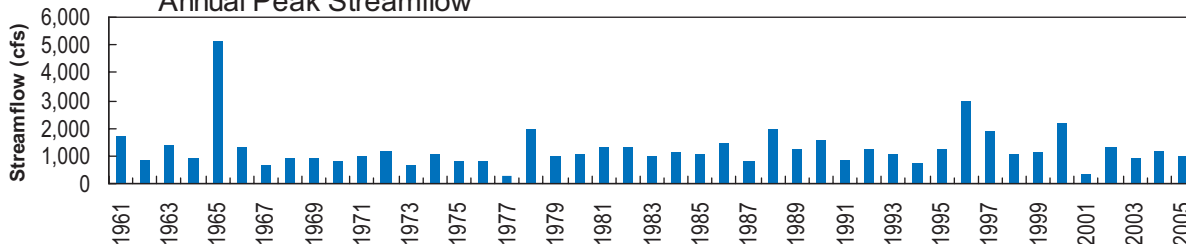
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



WILLAMETTE RIVER BASIN

14158795 SMITH RIVER RESERVOIR NEAR BELKNAP SPRINGS, OR

LOCATION.--Lat 44°18'20", long 122°02'40", in SW ¼ SW ¼ sec.36, T.14 S., R.6 E., Linn County, Hydrologic Unit 17090004, Willamette National Forest, in intake tower near left end of Smith River Dam on Smith River, 800 ft upstream from Bunchgrass Creek, 8 mi north of town of Belknap Springs, and at mile 2.1.

DRAINAGE AREA.--18.2 mi².

PERIOD OF RECORD.--March 1963 to current year.

REVISED RECORDS.--WDR OR-86-2: 1985.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Eugene Water and Electric Board).

REMARKS.--Reservoir is formed by earthfill dam with concrete spillway completed in 1963 by Eugene Water and Electric Board; storage began Mar. 18, 1963. Total capacity is 15,000 acre-ft at elevation 2,605.0 ft, top of spillway gates, and usable capacity is 9,900 acre-ft between elevations 2,525.0 ft, minimum power pool, and 2,605.0 ft. Storage of 5,100 acre-ft, below elevation 2,525.0 ft, not normally available for release. Water used for power generation. Figures herein represent total contents and are furnished by Eugene Water and Electric Board.

COOPERATION.--Elevations and area-volume curves furnished by Eugene Water and Electric Board.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 15,200 acre-ft Dec. 22, 1964, elevation, 2,606.5 ft; minimum contents, 5,700 acre-ft Apr. 11, 14, 1964, elevation, 2,532.90 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 14,350 acre-ft Aug. 6, elevation, 2,601.44 ft; minimum contents, 12,230 acre-ft Sept. 5, elevation, 2,588.34 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept.30	2,599.63	14,040	-
Oct. 31	2,597.63	13,720	-320
Nov. 30	2,593.43	13,050	-670
Dec. 31	2,591.89	12,800	-250
CAL YR 2004	-	-	-160
Jan. 31	2,592.20	12,850	+50
Feb. 28	2,596.29	13,510	+660
Mar. 31	2,595.13	13,320	-190
Apr. 30	2,597.79	13,750	+430
May 31	2,597.32	13,670	-80
June 30	2,599.00	13,940	+270
July 31	2,599.67	14,050	+110
Aug. 31	2,591.03	12,660	-1,390
Sept.30	2,591.60	12,760	+100
WTR YR 2005	-	-	-1,280

WILLAMETTE RIVER BASIN

14158850 MCKENZIE RIVER BELOW TRAIL BRIDGE DAM, NEAR BELKNAP SPRINGS, OR

LOCATION.--Lat 44°16'05", long 122°02'55", in T.15 S., R.6 E., (unsurveyed), Linn County, Hydrologic Unit 17090004, in Willamette National Forest, on left bank 0.4 mi downstream from Trail Bridge Dam, 0.5 mi upstream from Anderson Creek, 5 mi north of town of Belknap Springs, and at mile 81.5.

DRAINAGE AREA.--184 mi².

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,980.00 ft above NGVD of 1929 (levels by Eugene Water and Electric Board). Prior to Oct. 11, 1963, at datum 5.60 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since 1963 by Smith River Reservoir (station 14158795). Diurnal fluctuations by powerplants and by Trail Bridge re-regulation reservoir upstream. Water is diverted from McKenzie River in SW $\frac{1}{4}$ sec.20, T.14 S., R.7 E., to Smith River Reservoir and returned to river upstream from station. Continuous water-quality records for the period November 1976 to September 1985, July 1992 to September 1993 have been collected at this location.

AVERAGE DISCHARGE.--46 years (water years 1960-2005), 1,008 ft³/s, 74.39 in/yr, 730,300 acre-ft/yr, adjusted for storage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,200 ft³/s Dec. 22, 1964, gage height, 12.45 ft, from rating curve extended above 3,700 ft³/s on basis of slope-area measurement of peak flow; minimum discharge, 185 ft³/s Feb. 3, 1963; minimum daily, 423 ft³/s Nov. 22, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,400 ft³/s Apr. 14, gage height, 8.24 ft; minimum discharge, 465 ft³/s Nov. 11.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	687	735	684	866	892	740	1,050	946	905	728	640	641
2	673	808	684	849	859	707	1,120	928	905	723	641	642
3	653	884	684	844	841	677	1,120	825	905	722	637	643
4	653	853	671	838	846	697	1,120	756	876	722	633	643
5	664	847	670	810	860	709	1,120	831	873	722	630	615
6	665	810	684	796	865	709	1,120	879	876	721	632	551
7	665	759	713	794	836	697	1,140	883	885	721	631	548
8	662	838	958	794	807	690	1,170	884	896	721	623	546
9	664	779	1,240	793	794	690	1,170	931	896	722	623	563
10	665	750	1,440	760	808	690	1,140	1,000	890	698	625	591
11	665	781	1,450	738	778	690	1,110	1,010	837	678	626	584
12	665	761	1,340	735	769	692	1,140	1,050	832	679	626	566
13	652	759	1,200	711	768	691	1,110	1,050	830	665	623	571
14	626	740	1,310	701	768	692	1,230	1,050	830	666	625	573
15	632	717	1,360	678	748	691	1,090	1,050	843	675	624	569
16	654	716	1,210	677	743	691	926	1,020	846	685	642	566
17	661	710	1,190	687	739	694	1,070	1,070	844	688	642	566
18	690	709	1,200	1,020	718	695	984	1,090	822	687	643	579
19	733	696	1,160	1,020	707	695	1,050	1,130	818	678	643	606
20	714	692	1,140	982	735	702	1,040	1,120	842	677	642	626
21	693	682	1,080	900	739	715	1,000	1,110	817	665	642	628
22	703	692	1,050	888	733	695	1,010	1,100	792	662	643	633
23	722	662	1,050	911	716	703	1,000	1,070	790	650	644	621
24	729	664	1,010	914	704	711	999	1,040	768	644	644	559
25	733	772	992	897	693	715	1,050	1,010	736	645	641	568
26	731	712	943	897	695	788	1,060	1,010	683	644	641	570
27	699	695	906	935	693	1,710	1,050	982	741	643	640	546
28	714	691	909	935	711	1,610	1,030	918	767	643	642	537
29	734	683	907	910	---	1,190	999	919	769	643	644	556
30	734	683	879	889	---	1,070	978	919	769	643	644	583
31	734	---	876	885	---	1,030	---	904	---	639	642	---
TOTAL	21,269	22,280	31,590	26,054	21,565	24,876	32,196	30,485	24,883	21,099	19,718	17,590
MEAN	686	743	1,019	840	770	802	1,073	983	829	681	636	586
MAX	734	884	1,450	1,020	892	1,710	1,230	1,130	905	728	644	643
MIN	626	662	670	677	693	677	926	756	683	639	623	537
AC-FT	42,190	44,190	62,660	51,680	42,770	49,340	63,860	60,470	49,360	41,850	39,110	34,890
MEAN†	681	731	1,015	841	782	799	1,080	982	834	682	613	588
CFSM†	3.70	3.98	5.52	4.57	4.25	4.34	5.87	5.34	4.53	3.71	3.33	3.20
IN.†	4.27	4.44	6.36	5.27	4.43	5.01	6.55	6.16	5.06	4.28	3.84	3.57
AC-FT†	41,870	43,520	62,410	51,730	43,430	49,150	64,290	60,390	49,630	41,960	37,720	34,990

CAL YR2004 TOTAL 355,271 MEAN 971 MAX 1,970 MIN 626 AC-FT 704,700 MEAN† 973 CFSM† 5.29 IN.† 71.81 AC-FT† 704,540
WTR YR2005 TOTAL 293,605 MEAN 804 MAX 1,710 MIN 537 AC-FT 582,400 MEAN† 803 CFSM† 4.36 IN.† 59.23 AC-FT† 581,120

† Adjusted for change in contents in Smith Reservoir.

WILLAMETTE RIVER BASIN

14158850 MCKENZIE RIVER BELOW TRAIL BRIDGE DAM, NEAR BELKNAP SPRINGS, OR—Continued



2005 Water Year
WILLAMETTE RIVER BASIN

14158850 MCKENZIE R BLW TRAIL BR DAM NR BELKNAP SPRINGS, OR

Latitude: 44° 16' 05"

Longitude: 122° 02' 55"

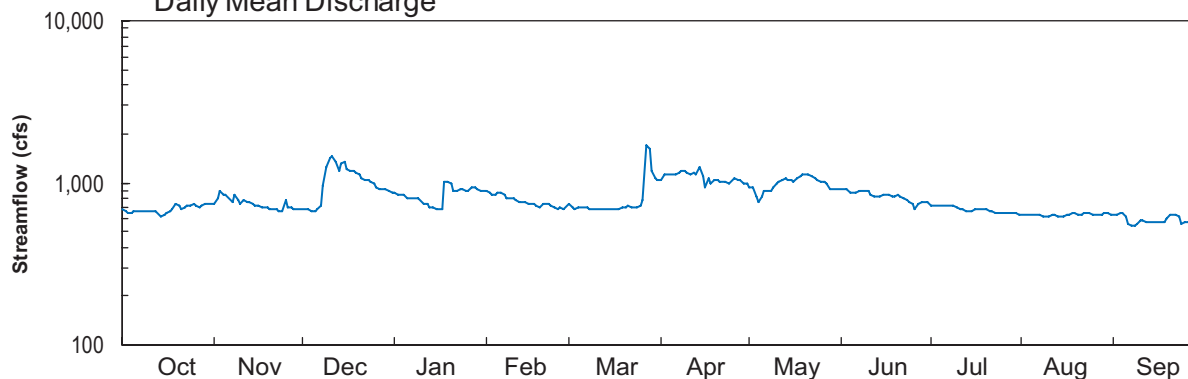
Hydrologic Unit Code: 17090004

Linn County

Datum: 1980.00 feet

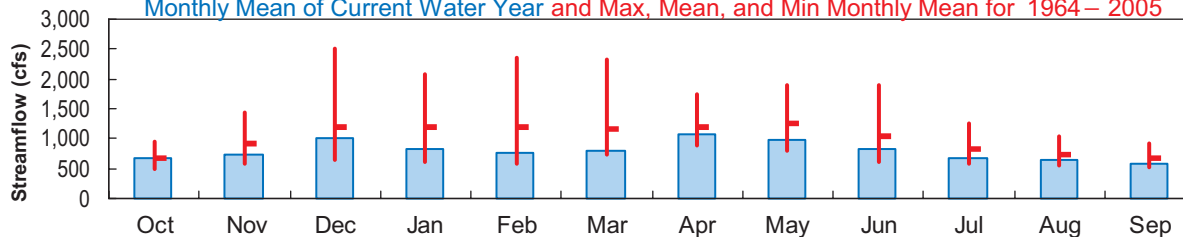
Drainage Area: 184 mi²

Daily Mean Discharge

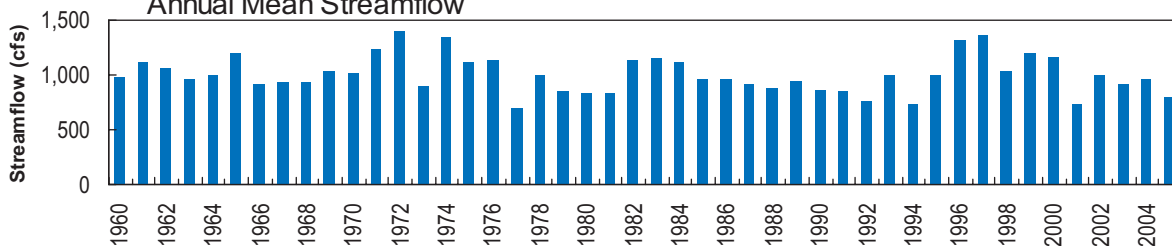


Monthly Statistics

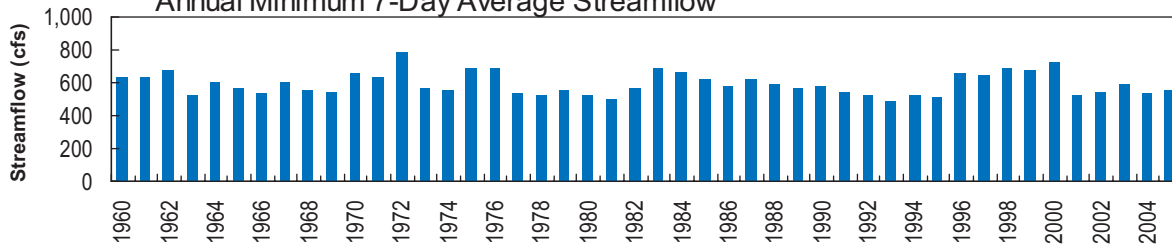
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1964–2005



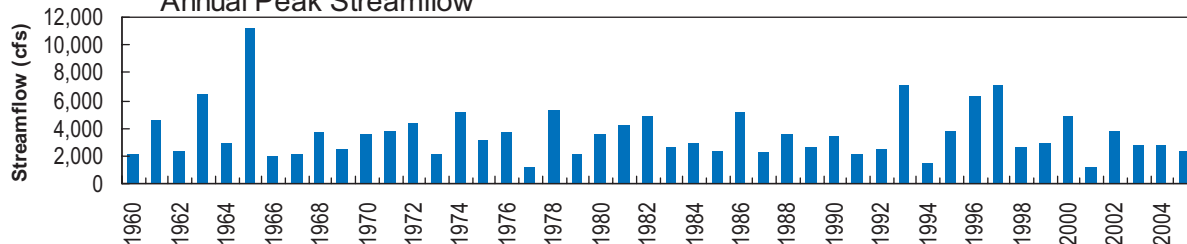
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



WILLAMETTE RIVER BASIN

14159110 MCKENZIE RIVER ABOVE SOUTH FORK, NEAR RAINBOW, OR

LOCATION.--Lat 44°09'59", long 122°15'19", in NW $\frac{1}{4}$ sec.19 T.16 S., R.5 E., Lane County, Hydrologic Unit 17090004, in Willamette National Forest, on right bank 0.6 mi downstream from Mill Creek, and at mile 62.3.

DRAINAGE AREA.--526 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 2003 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,150 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since 1963 by Smith River Reservoir (14158795). No diversion upstream from station.

AVERAGE DISCHARGE.--2 years (water years 2004-05), 2,272 ft³/s, 58.68 in/yr, 1,646,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,900 ft³/s Dec. 13, 2003, gage height, 13.21 ft; minimum discharge, 1,250 ft³/s Oct. 14, 15, 18, 22, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,390 ft³/s Dec. 10, gage height, 11.19 ft; minimum discharge, 1,270 ft³/s Sept. 28.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,620	1,800	1,700	2,070	2,070	1,800	3,050	2,480	2,540	1,950	1,580	1,480
2	1,600	1,970	1,680	2,030	2,020	1,770	3,120	2,480	2,510	1,910	1,570	1,470
3	1,560	2,320	1,670	2,000	1,990	1,730	3,060	2,330	2,450	1,900	1,560	1,470
4	1,560	2,120	1,660	1,990	1,990	1,720	3,040	2,290	2,380	1,880	1,550	1,470
5	1,560	2,040	1,660	1,940	2,010	1,730	2,940	2,370	2,390	1,870	1,540	1,450
6	1,570	1,960	1,710	1,920	2,010	1,720	2,930	2,540	2,470	1,870	1,540	1,350
7	1,580	1,860	1,840	1,920	1,970	1,710	3,060	2,560	2,600	1,860	1,540	1,340
8	1,580	1,910	3,340	1,910	1,920	1,700	3,110	2,600	2,580	1,850	1,520	1,340
9	1,660	1,860	5,470	1,910	1,890	1,690	3,080	2,990	2,500	1,870	1,520	1,350
10	1,600	1,790	5,560	1,860	1,900	1,680	2,940	3,230	2,440	1,840	1,510	1,450
11	1,580	1,790	4,810	1,810	1,860	1,680	3,040	3,210	2,380	1,800	1,510	1,430
12	1,570	1,790	4,180	1,810	1,860	1,680	3,010	3,080	2,360	1,780	1,510	1,370
13	1,560	1,770	3,500	1,790	1,920	1,670	2,870	2,960	2,310	1,760	1,500	1,370
14	1,520	1,740	3,730	1,760	1,870	1,660	2,940	2,930	2,280	1,740	1,500	1,370
15	1,510	1,710	3,610	1,760	1,830	1,650	2,760	3,010	2,260	1,740	1,490	1,360
16	1,540	1,710	3,210	1,830	1,820	1,650	2,570	3,310	2,270	1,740	1,510	1,360
17	1,620	1,680	3,010	1,890	1,800	1,680	2,870	3,310	2,330	1,730	1,520	1,370
18	1,830	1,710	2,910	2,860	1,780	1,670	2,720	3,400	2,270	1,730	1,510	1,370
19	1,840	1,680	2,800	2,810	1,800	1,720	2,720	3,480	2,240	1,710	1,510	1,390
20	1,760	1,650	2,700	2,580	1,930	1,720	2,670	3,360	2,240	1,700	1,510	1,430
21	1,740	1,640	2,580	2,400	1,910	1,760	2,600	3,290	2,210	1,680	1,500	1,430
22	1,810	1,640	2,480	2,290	1,870	1,740	2,600	3,210	2,140	1,670	1,500	1,430
23	2,000	1,610	2,440	2,280	1,840	1,780	2,740	3,050	2,110	1,650	1,500	1,430
24	1,940	1,620	2,360	2,240	1,810	1,820	2,770	2,900	2,080	1,630	1,500	1,340
25	1,870	1,880	2,310	2,200	1,780	1,810	2,760	2,770	2,030	1,620	1,490	1,330
26	1,830	1,810	2,270	2,200	1,770	2,000	2,730	2,710	1,950	1,620	1,490	1,350
27	1,780	1,760	2,180	2,230	1,760	4,670	2,720	2,650	1,990	1,610	1,480	1,310
28	1,730	1,720	2,160	2,210	1,770	4,780	2,660	2,550	2,040	1,600	1,480	1,290
29	1,760	1,690	2,170	2,160	---	3,720	2,580	2,620	2,010	1,600	1,490	1,310
30	1,800	1,700	2,120	2,110	---	3,250	2,500	2,520	2,000	1,590	1,490	1,360
31	1,820	---	2,090	2,080	---	2,990	---	2,470	---	1,580	1,490	---
TOTAL	52,300	53,930	85,910	64,850	52,750	64,350	85,160	88,660	68,360	54,080	46,910	41,570
MEAN	1,687	1,798	2,771	2,092	1,884	2,076	2,839	2,860	2,279	1,745	1,513	1,386
MAX	2,000	2,320	5,560	2,860	2,070	4,780	3,120	3,480	2,600	1,950	1,580	1,480
MIN	1,510	1,610	1,660	1,760	1,760	1,650	2,500	2,290	1,950	1,580	1,480	1,290
AC-FT	103,700	107,000	170,400	128,600	104,600	127,600	168,900	175,900	135,600	107,300	93,050	82,450
CFSM	3.21	3.42	5.27	3.98	3.58	3.95	5.40	5.44	4.33	3.32	2.88	2.63
IN.	3.70	3.81	6.08	4.59	3.73	4.55	6.02	6.27	4.83	3.82	3.32	2.94
CAL YR2004	TOTAL 899,050	MEAN 2,456	MAX 7,680	MIN 1,510	AC-FT 1,783,000	CFSM 4.67	IN. 63.59					
WTR YR2005	TOTAL 758,830	MEAN 2,079	MAX 5,560	MIN 1,290	AC-FT 1,505,000	CFSM 3.95	IN. 53.67					

WILLAMETTE RIVER BASIN

14159110 MCKENZIE RIVER ABOVE SOUTH FORK, NEAR RAINBOW, OR—Continued



2005 Water Year
WILLAMETTE RIVER BASIN

14159110 MCKENZIE RIVER ABOVE SOUTH FORK, NEAR RAINBOW, OR

Latitude: 44° 09' 59"

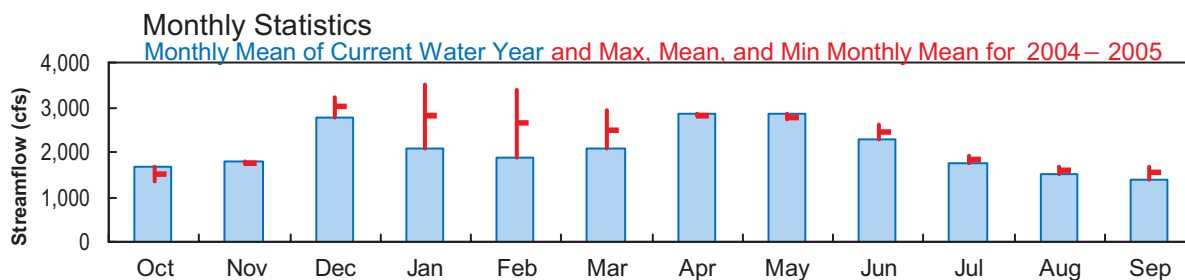
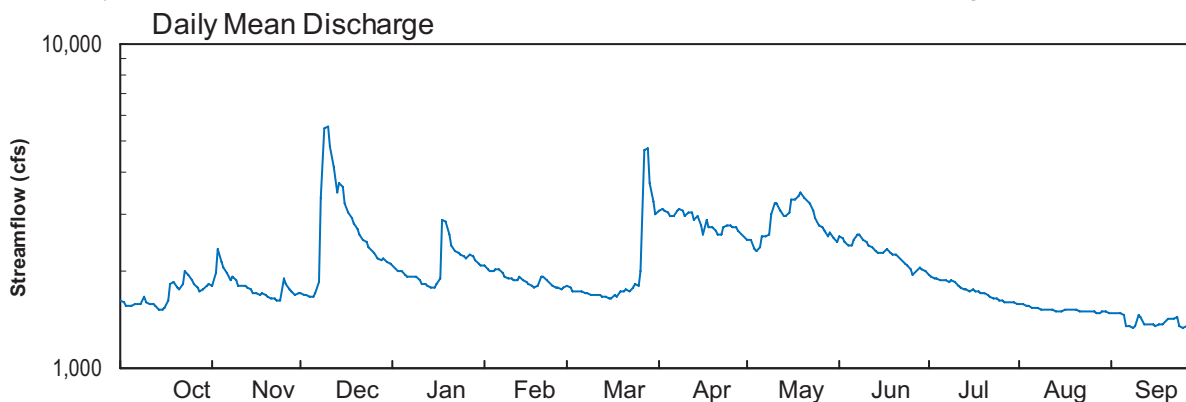
Longitude: 122° 15' 19"

Hydrologic Unit Code: 17090004

Lane County

Datum: 1150 feet

Drainage Area: 526 mi²



WILLAMETTE RIVER BASIN

14159110 MCKENZIE RIVER ABOVE SOUTH FORK, NEAR RAINBOW, OR—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: February 2003 to current year.

TURBIDITY: January 2003 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--

WATER TEMPERATURE: Records excellent.

TURBIDITY: Records good except for the period May 16-25, which is fair. Turbidity data are highly dependent on the instrumentation used for the measurement. See the "Definitions" section for turbidity in the front of this report.

EXTREMES FOR PERIOD OF RECORD.- -

WATER TEMPERATURE: Maximum, 14.2°C July 22, 31, 2003; minimum, 3.4°C Jan. 5, 2005.

TURBIDITY: Maximum, 82 FNU Dec. 13, 2003; minimum, <1 FNU many days each year.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 13.9°C July 15, 29; minimum, 3.4°C Jan. 5.

TURBIDITY: Maximum, 26 FNU Mar. 27; minimum, <1 FNU on many days.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	9.8	7.9	8.8	7.1	5.9	6.5	6.1	5.3	5.7	5.6	5.1	5.4
2	9.9	7.9	8.7	7.5	6.9	7.1	5.6	4.8	5.1	5.1	4.6	4.9
3	9.7	7.9	8.7	7.1	6.0	6.7	5.1	4.5	4.8	4.6	4.2	4.4
4	9.6	7.8	8.6	6.5	5.5	5.9	5.4	4.6	5.0	4.4	3.8	4.1
5	9.7	7.8	8.6	6.5	5.3	5.9	5.7	5.2	5.4	4.3	3.4	3.8
6	9.3	8.4	8.7	6.5	5.4	5.9	5.3	4.5	4.8	5.0	4.3	4.6
7	9.9	8.4	8.9	6.8	5.7	6.2	5.4	4.4	4.9	5.1	4.6	4.9
8	9.7	8.1	8.8	6.7	5.7	6.2	5.9	5.2	5.6	5.0	4.3	4.7
9	9.2	8.2	8.6	7.0	6.2	6.6	6.4	5.9	6.2	4.8	4.2	4.5
10	9.0	7.6	8.2	7.3	6.5	6.8	6.7	6.3	6.5	5.0	4.4	4.7
11	8.8	7.2	7.9	7.1	6.2	6.5	6.7	6.5	6.6	4.4	3.9	4.2
12	9.1	7.4	8.1	6.9	5.8	6.3	6.5	6.0	6.3	5.1	4.3	4.7
13	9.4	7.7	8.4	7.2	6.4	6.8	6.6	6.0	6.3	5.5	4.8	5.0
14	9.1	7.5	8.2	6.9	5.9	6.4	6.8	6.5	6.6	5.3	4.5	4.8
15	9.0	7.6	8.2	7.1	6.2	6.7	6.5	5.7	6.0	5.3	4.7	5.0
16	9.0	7.4	8.1	7.4	6.7	7.0	5.9	5.4	5.7	5.9	5.1	5.4
17	8.2	7.7	8.0	6.7	5.9	6.3	6.4	5.7	6.0	5.8	5.2	5.5
18	8.0	7.6	7.8	6.7	5.9	6.3	6.2	5.6	5.9	6.0	5.5	5.7
19	8.7	7.5	8.0	6.7	5.8	6.2	6.4	5.6	6.0	5.9	5.2	5.5
20	8.4	7.8	8.0	5.8	5.0	5.3	6.3	5.5	6.0	6.0	5.3	5.6
21	8.1	7.7	7.9	5.4	4.5	4.9	5.5	4.9	5.3	5.7	5.0	5.3
22	7.8	7.4	7.7	6.1	4.8	5.4	6.2	5.4	5.7	6.2	5.0	5.6
23	8.0	7.4	7.8	6.6	5.6	6.0	5.6	4.9	5.2	6.2	5.3	5.7
24	8.0	6.8	7.4	7.1	6.4	6.7	5.2	4.6	4.9	5.9	5.0	5.4
25	7.4	6.1	6.8	7.2	6.6	6.8	5.6	4.7	5.2	6.3	5.3	5.8
26	7.8	7.0	7.3	6.6	6.1	6.4	5.7	5.4	5.5	6.6	5.9	6.2
27	7.8	6.8	7.2	6.3	5.6	6.0	5.9	5.2	5.5	6.4	5.8	6.1
28	7.5	7.0	7.2	5.7	4.8	5.4	5.9	5.2	5.5	6.4	5.8	6.0
29	7.7	6.9	7.2	5.0	4.3	4.7	6.0	5.4	5.8	6.5	5.9	6.1
30	7.3	6.7	7.0	5.5	4.7	5.1	5.9	5.3	5.6	6.0	5.1	5.5
31	7.4	6.0	6.8	---	---	---	5.6	5.1	5.3	6.0	5.1	5.5
MONTH	9.9	6.0	8.0	7.5	4.3	6.2	6.8	4.4	5.6	6.6	3.4	5.2

WILLAMETTE RIVER BASIN

14159110 MCKENZIE RIVER ABOVE SOUTH FORK, NEAR RAINBOW, OR—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	5.6	4.6	5.1	7.0	5.3	6.1	6.7	5.9	6.3	8.7	7.3	8.0
2	5.7	4.6	5.1	7.3	5.9	6.5	7.0	5.7	6.3	9.2	7.6	8.2
3	6.0	4.8	5.3	7.0	5.0	5.9	6.5	6.0	6.2	10.4	7.4	8.7
4	6.1	5.1	5.6	7.3	5.7	6.4	6.8	5.7	6.1	9.9	8.0	8.8
5	6.0	5.0	5.6	7.4	5.5	6.4	7.2	5.7	6.3	9.3	7.8	8.4
6	5.5	4.7	5.1	7.6	5.4	6.4	8.2	6.1	7.0	8.3	7.8	8.0
7	5.5	4.7	5.0	8.0	5.9	6.8	7.0	6.2	6.7	9.5	7.4	8.2
8	5.4	4.4	4.8	8.0	5.9	6.8	7.3	5.7	6.3	9.2	7.7	8.2
9	5.7	4.5	5.0	7.9	5.9	6.8	7.3	6.2	6.6	7.9	7.0	7.5
10	5.7	4.3	4.9	8.3	6.1	7.1	7.7	5.8	6.7	8.0	6.6	7.2
11	5.9	4.5	5.1	8.5	6.1	7.1	7.6	6.4	6.9	8.4	7.2	7.7
12	5.7	4.7	5.2	8.4	6.3	7.2	7.0	5.8	6.3	9.7	7.3	8.3
13	5.9	4.7	5.3	7.8	5.5	6.6	7.3	5.5	6.2	9.3	7.6	8.4
14	5.5	4.4	5.0	7.6	5.2	6.3	7.7	5.7	6.5	10.2	8.0	8.9
15	5.2	3.9	4.5	7.7	5.3	6.4	7.4	5.4	6.4	8.8	8.3	8.6
16	5.4	4.1	4.6	6.9	5.7	6.3	7.5	6.6	7.0	8.7	7.8	8.2
17	5.8	4.1	4.8	7.7	6.3	6.9	7.3	6.2	6.7	8.4	7.4	7.9
18	6.1	4.4	5.2	7.5	6.3	6.8	7.8	5.8	6.6	9.2	7.7	8.2
19	5.9	5.2	5.5	7.7	6.6	7.1	7.9	6.1	6.8	8.9	7.8	8.3
20	6.4	5.5	5.8	7.4	6.5	7.0	9.0	6.6	7.5	8.5	7.6	8.0
21	6.4	4.9	5.6	7.3	6.0	6.6	8.8	6.7	7.6	8.4	7.4	7.9
22	6.4	4.7	5.5	7.4	6.1	6.6	9.0	6.5	7.6	9.8	7.7	8.4
23	6.4	4.6	5.4	6.8	5.7	6.2	7.7	7.0	7.2	10.2	7.3	8.4
24	6.5	4.7	5.6	6.2	4.6	5.4	8.9	6.7	7.6	10.5	7.2	8.6
25	6.7	4.8	5.6	7.1	5.5	6.2	8.5	7.1	7.6	11.2	7.5	9.0
26	6.8	4.9	5.7	6.6	5.8	6.2	9.8	7.0	8.1	11.6	8.1	9.6
27	7.2	5.3	6.1	6.5	6.1	6.3	9.5	7.1	8.1	11.6	8.5	9.7
28	7.0	6.1	6.4	6.1	5.7	6.0	9.1	7.4	8.1	10.0	8.7	9.3
29	---	---	---	6.0	4.9	5.5	8.1	7.5	7.7	9.7	8.5	9.0
30	---	---	---	6.5	5.4	5.8	10.4	7.3	8.5	10.0	8.3	9.0
31	---	---	---	7.6	5.1	6.2	---	---	---	9.5	8.5	8.9
MONTH	7.2	3.9	5.3	8.5	4.6	6.4	10.4	5.4	7.0	11.6	6.6	8.4
	JUNE			JULY			AUGUST			SEPTEMBER		
1	9.6	8.2	8.8	13.3	9.5	11.0	12.3	10.0	11.1	12.6	9.3	10.8
2	9.9	8.2	8.9	12.5	8.8	10.4	13.3	9.8	11.4	11.9	9.5	10.5
3	11.2	8.2	9.4	12.6	8.8	10.4	13.1	9.5	11.1	11.4	9.5	10.3
4	11.0	7.8	9.1	12.9	8.9	10.6	13.4	9.6	11.4	11.7	9.1	10.2
5	9.3	8.2	8.7	13.1	9.2	10.9	13.6	9.9	11.6	11.8	8.5	10.0
6	8.9	7.8	8.3	11.8	9.7	10.6	13.6	10.0	11.6	11.9	8.8	10.3
7	9.4	7.6	8.3	13.1	9.6	11.0	13.6	9.9	11.5	12.2	9.0	10.4
8	10.5	7.7	8.8	11.0	9.3	10.1	13.7	10.0	11.6	12.2	9.0	10.5
9	11.3	7.8	9.3	11.4	9.4	10.3	13.5	9.8	11.4	10.3	8.9	9.7
10	10.0	8.3	9.1	11.4	9.3	10.2	13.2	9.8	11.3	10.1	8.9	9.4
11	9.9	8.5	9.0	13.4	9.4	11.1	13.0	9.5	11.1	10.6	8.2	9.3
12	10.7	8.0	9.1	13.4	9.8	11.4	13.2	9.5	11.1	10.8	8.0	9.3
13	11.3	8.4	9.5	13.4	9.6	11.2	13.4	9.8	11.3	11.0	8.1	9.4
14	10.5	8.6	9.5	13.5	9.4	11.2	13.1	9.5	11.1	11.0	8.3	9.6
15	11.2	8.1	9.5	13.9	9.7	11.5	13.2	9.6	11.2	10.9	8.3	9.5
16	9.4	8.6	8.9	13.6	9.8	11.4	13.2	9.8	11.3	10.0	8.4	9.1
17	9.9	8.3	9.0	13.5	9.6	11.3	12.6	9.6	10.9	10.5	8.6	9.3
18	10.1	8.3	9.0	13.8	9.8	11.5	12.7	9.5	10.9	10.2	7.6	8.8
19	11.1	8.3	9.3	13.8	9.9	11.6	13.0	9.6	11.1	10.3	7.9	8.9
20	12.6	8.4	10.1	13.6	9.6	11.3	13.3	9.8	11.3	10.3	7.8	8.9
21	11.6	9.1	10.1	12.6	9.8	11.0	13.5	9.9	11.4	10.2	7.8	8.9
22	11.5	9.0	9.9	13.7	10.3	11.7	12.6	9.9	11.1	10.0	7.8	8.8
23	12.4	8.4	10.1	13.8	9.8	11.5	12.5	9.5	10.8	9.8	8.2	8.8
24	12.6	8.9	10.5	13.3	9.6	11.2	12.4	8.9	10.5	9.5	7.3	8.4
25	12.5	9.0	10.5	13.2	9.3	11.1	12.6	9.0	10.6	9.5	7.0	8.2
26	11.4	8.8	10.1	13.2	9.5	11.2	12.4	9.5	10.8	9.7	7.2	8.4
27	10.2	8.9	9.5	13.6	9.5	11.3	12.5	9.2	10.7	9.9	7.7	8.7
28	10.7	8.8	9.6	13.8	9.9	11.6	12.5	9.2	10.7	10.0	7.7	8.8
29	12.9	8.6	10.4	13.9	9.9	11.6	11.0	9.8	10.3	10.0	7.7	8.8
30	13.2	9.2	10.9	13.6	9.8	11.5	12.2	9.3	10.5	10.2	8.6	9.3
31	---	---	---	13.6	9.9	11.5	12.4	9.1	10.5	---	---	---
MONTH	13.2	7.6	9.4	13.9	8.8	11.1	13.7	8.9	11.1	12.6	7.0	9.4
YEAR	13.9	3.4	7.8									

WILLAMETTE RIVER BASIN

14159110 MCKENZIE RIVER ABOVE SOUTH FORK, NEAR RAINBOW, OR—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/- 2.5 DEGREES, FNU
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1
3	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1
4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
8	<1	<1	<1	<1	<1	<1	12	<1	7	<1	<1	<1
9	<1	<1	<1	<1	<1	<1	11	4	6	<1	<1	<1
10	<1	<1	<1	<1	<1	<1	9	2	4	<1	<1	<1
11	<1	<1	<1	<1	<1	<1	2	1	2	---	<1	<1
12	<1	<1	<1	<1	<1	<1	2	<1	1	<1	<1	<1
13	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
14	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
17	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
18	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1
19	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
21	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
22	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
23	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
24	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
26	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
27	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
28	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
29	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
30	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
31	<1	<1	<1	---	---	---	<1	<1	<1	<1	<1	<1
MAX	<1	<1	<1	2	<1	<1	12	4	7	2	<1	<1
MIN	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
FEBRUARY			MARCH			APRIL			MAY			
1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1
2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
9	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1
10	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1
11	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
12	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
13	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
14	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
16	<1	<1	<1	<1	<1	<1	1	<1	<1	2	<1	<1
17	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1
18	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1
19	<1	<1	<1	<1	<1	<1	1	<1	<1	2	<1	1
20	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1
21	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1
22	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	<1	1
23	<1	<1	<1	<1	<1	<1	1	<1	<1	3	<1	<1
24	<1	<1	<1	<1	<1	<1	1	<1	<1	4	<1	1
25	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	<1	<1
26	<1	<1	<1	5	<1	<1	<1	<1	<1	<1	<1	<1
27	<1	<1	<1	26	3	8	<1	<1	<1	<1	<1	<1
28	<1	<1	<1	12	2	4	<1	<1	<1	<1	<1	<1
29	---	---	---	3	1	2	<1	<1	<1	<1	<1	<1
30	---	---	---	1	<1	<1	<1	<1	<1	<1	<1	<1
31	---	---	---	<1	<1	<1	---	---	---	<1	<1	<1
MAX	<1	<1	<1	26	3	8	2	<1	<1	4	<1	1
MIN	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

WILLAMETTE RIVER BASIN

14159110 MCKENZIE RIVER ABOVE SOUTH FORK, NEAR RAINBOW, OR—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/- 2.5 DEGREES, FNU—
CONTINUED

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1
5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
9	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1
10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
11	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1
12	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
13	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
14	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1
15	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
17	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
18	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
19	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
21	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
22	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
23	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
24	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
26	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
27	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
28	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
29	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
30	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
31	---	---	---	<1	<1	<1	<1	<1	<1	---	---	---
MAX	1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1
MIN	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

WILLAMETTE RIVER BASIN

14159200 SOUTH FORK MCKENZIE RIVER ABOVE COUGAR LAKE, NEAR RAINBOW, OR

LOCATION.--Lat 44°02'50", long 122°13'00", in T.17 S., R.5 E., (unsurveyed), Lane County, Hydrologic Unit 17090004, in Willamette National Forest, on right bank 100 ft upstream from Tipsoo Creek, 8.0 mi south of Rainbow, 9.0 mi southeast of town of Blue River, and at mile 10.4.

DRAINAGE AREA.--160 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1957 to September 1987, October 2000 to current year. Prior to October 1971 published as South Fork McKenzie River above Cougar Lake Reservoir.

REVISED RECORDS.--WSP 1638: Drainage area. WSP 1935: 1958(M).

GAGE.--Water-stage recorder. Datum of gage is 1,709.51 ft above NGVD of 1929 (Corps of Engineers bench mark).

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion upstream from station.

AVERAGE DISCHARGE.--35 years (water years 1958-87, 2001-05), 623 ft³/s, 52.89 in/yr, 451,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,400 ft³/s Dec. 22, 1964, gage height, 20.06 ft, from floodmark, from rating curve extended above 7,600 ft³/s, on basis of slope-area measurement of peak flow; minimum discharge, 170 ft³/s Oct. 5, 2001.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 9	1645	*4,420	*9.61				

No other peak greater than base discharge.

Minimum discharge, 184 ft³/s, Sept. 27-30, gage height, 3.42 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	367	293	387	361	289	945	800	558	314	226	197
2	215	424	286	371	347	286	957	803	562	308	225	196
3	211	582	280	359	337	280	897	729	518	303	223	195
4	208	505	278	349	340	274	873	782	483	296	221	195
5	205	447	278	337	345	269	794	789	493	290	219	193
6	205	406	301	335	336	265	836	838	594	287	217	193
7	208	374	378	336	331	262	1,040	857	672	285	216	192
8	210	351	1,650	330	319	260	1,030	890	663	286	215	191
9	271	332	4,020	326	312	257	997	1,090	601	296	214	194
10	234	318	3,190	315	306	255	894	1,270	547	290	213	244
11	220	306	2,350	308	302	255	1,010	1,300	553	282	212	219
12	213	295	1,820	303	305	254	975	1,150	537	274	211	203
13	207	287	1,390	298	341	250	862	1,010	499	270	210	199
14	203	279	1,410	293	321	245	777	956	472	267	208	196
15	201	274	1,220	313	308	242	710	996	450	263	207	194
16	201	273	1,030	373	299	240	772	1,250	451	259	206	196
17	247	265	879	447	292	251	1,020	1,340	484	256	206	198
18	383	273	783	911	286	251	953	1,440	462	252	206	195
19	357	267	718	878	305	278	901	1,400	448	252	205	193
20	309	260	657	730	374	279	861	1,260	423	249	203	191
21	308	255	599	635	382	282	829	1,160	405	246	203	190
22	361	252	556	568	360	289	828	1,060	389	245	203	190
23	632	250	520	525	340	311	973	924	376	242	202	190
24	599	258	489	489	326	330	1,050	815	363	240	201	191
25	484	329	467	463	315	324	1,010	725	351	240	199	189
26	425	340	459	457	306	454	964	649	343	237	198	188
27	381	314	437	457	298	1,350	973	592	341	234	197	187
28	352	300	419	430	297	1,560	955	553	351	232	196	186
29	334	289	432	412	---	1,350	868	588	334	230	200	185
30	365	291	416	392	---	1,060	802	533	323	229	202	186
31	385	---	397	376	---	883	---	501	---	227	199	---
TOTAL	9,353	9,763	28,402	13,503	9,091	13,435	27,356	29,050	14,046	8,181	6,463	5,856
MEAN	302	325	916	436	325	433	912	937	468	264	208	195
MAX	632	582	4,020	911	382	1,560	1,050	1,440	672	314	226	244
MIN	201	250	278	293	286	240	710	501	323	227	196	185
AC-FT	18,550	19,360	56,340	26,780	18,030	26,650	54,260	57,620	27,860	16,230	12,820	11,620
CFSM	1.89	2.03	5.73	2.72	2.03	2.71	5.70	5.86	2.93	1.65	1.30	1.22
IN.	2.17	2.27	6.60	3.14	2.11	3.12	6.36	6.75	3.27	1.90	1.50	1.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2005, BY WATER YEAR (WY)

MEAN	282	590	949	916	881	775	843	897	590	295	238	234
MAX	475	1,305	2,915	1,827	1,778	2,065	1,421	1,383	1,418	457	338	304
(WY)	(1983)	(1985)	(1965)	(1971)	(1982)	(1972)	(2002)	(1972)	(1974)	(1975)	(1976)	(1978)
MIN	188	252	231	234	232	410	445	426	270	206	189	179
(WY)	(1981)	(2003)	(1977)	(1977)	(1977)	(1977)	(1968)	(1968)	(1987)	(2003)	(2003)	(2001)

WILLAMETTE RIVER BASIN

14159200 SOUTH FORK MCKENZIE RIVER ABOVE COUGAR LAKE, NEAR RAINBOW, OR—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1958 - 2005	
ANNUAL TOTAL	232,819		174,499			
ANNUAL MEAN	636		478		623	
HIGHEST ANNUAL MEAN					917	1972
LOWEST ANNUAL MEAN					346	1977
HIGHEST DAILY MEAN	4,020	Dec 9	4,020	Dec 9	14,000	Dec 23, 1964
LOWEST DAILY MEAN	201	Aug 20	185	Sep 29	173	Sep 24, 2001
ANNUAL SEVEN-DAY MINIMUM	204	Aug 15	187	Sep 24	174	Oct 1, 2001
ANNUAL RUNOFF (AC-FT)	461,800		346,100		451,200	
ANNUAL RUNOFF (CFSM)	3.98		2.99		3.89	
ANNUAL RUNOFF (INCHES)	54.13		40.57		52.89	
10 PERCENT EXCEEDS	1,110		968		1,180	
50 PERCENT EXCEEDS	524		326		469	
90 PERCENT EXCEEDS	221		202		217	

WILLAMETTE RIVER BASIN

14159200 SOUTH FORK MCKENZIE RIVER ABOVE COUGAR LAKE, NEAR RAINBOW, OR—Continued



2005 Water Year
WILLAMETTE RIVER BASIN

14159200 SO FK MCKENZIE RIVER ABV COUGAR LAKE NR RAINBOW, OR

Latitude: 44° 02' 50"

Longitude: 122° 13' 00"

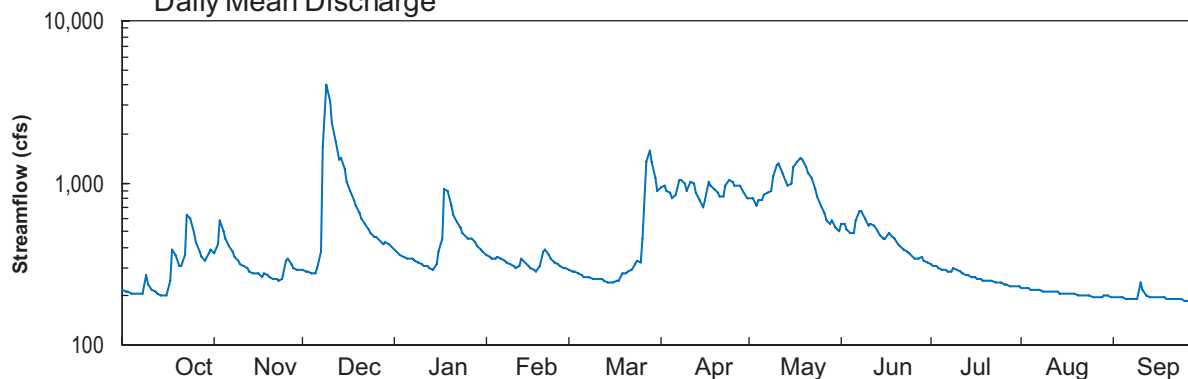
Hydrologic Unit Code: 17090004

Lane County

Datum: 1709.51 feet

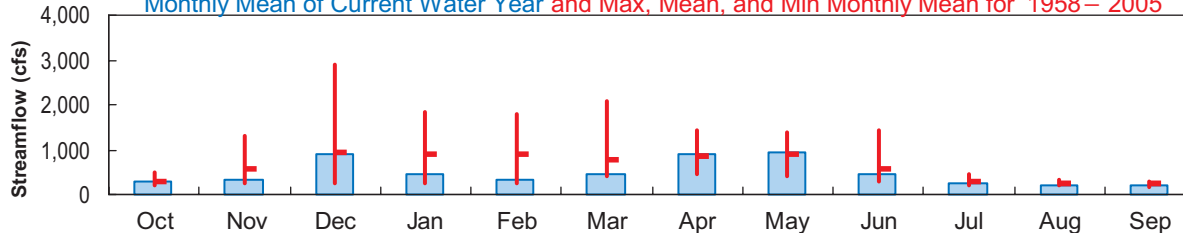
Drainage Area: 160 mi²

Daily Mean Discharge

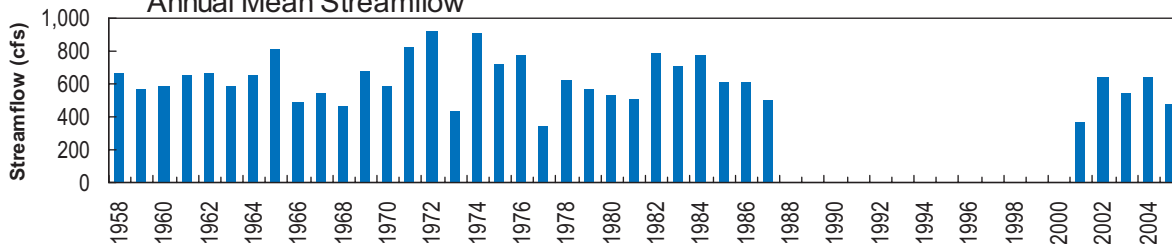


Monthly Statistics

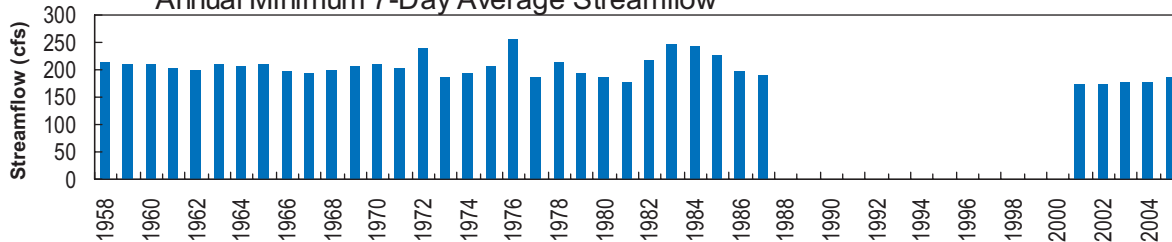
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1958–2005



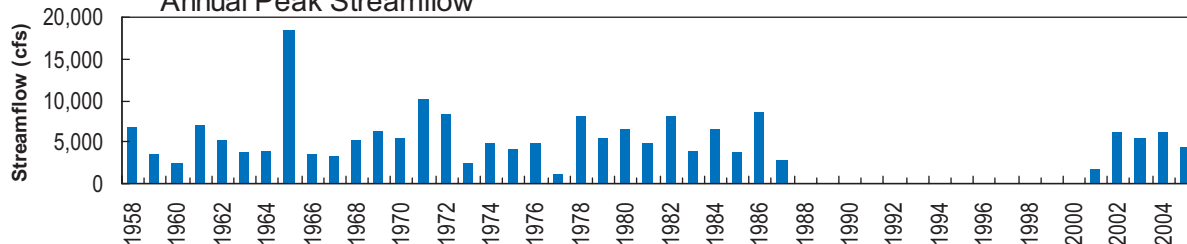
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



WILLAMETTE RIVER BASIN

14159200 SOUTH FORK MCKENZIE RIVER ABOVE COUGAR LAKE, NEAR RAINBOW, OR—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: November 1957 to September 1987, December 2000 to current year.

TURBIDITY: November 2000 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--

WATER TEMPERATURE: Records excellent except those for the periods Oct. 28 to Mar. 1, June 23 to Sept. 30, which are fair.

TURBIDITY: Records good. Turbidity data are highly dependent on the instrumentation used for the measurement. See the "Definitions" section for turbidity in the front of this report.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 17.0°C July 8, 1968, July 19, 20, 1979; minimum, 0.0°C Dec. 7-11, 1972, Dec. 30, 1978, Jan. 1, 1979, Jan. 4, 1982, Dec. 24, 1983.

TURBIDITY: Maximum, 323 FNU Apr. 14, 2002; minimum, <1 FNU many days each year.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 14.6°C July 18; minimum, 2.1°C Jan. 5.

TURBIDITY: Maximum, 30 FNU Dec. 9; minimum, <1 FNU many days during year.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	9.7	7.8	8.7	6.9	5.3	6.1	5.5	4.8	5.1	4.5	4.0	4.3
2	9.8	7.8	8.7	7.4	6.7	7.0	5.1	3.9	4.3	4.0	3.3	3.6
3	9.5	7.8	8.6	6.7	5.4	6.2	4.2	3.5	3.9	3.8	2.9	3.2
4	9.4	7.5	8.4	5.4	4.6	5.0	4.2	3.4	3.9	3.2	2.7	2.9
5	9.5	7.6	8.5	5.7	4.7	5.2	4.5	4.0	4.2	4.4	2.1	3.2
6	9.6	8.5	9.0	5.7	4.7	5.2	4.0	2.8	3.3	4.9	4.3	4.6
7	9.7	8.3	9.0	6.1	4.9	5.5	4.2	2.9	3.7	4.7	4.0	4.5
8	9.5	7.9	8.7	6.2	5.2	5.7	5.3	4.1	4.6	4.4	3.9	4.2
9	9.1	8.2	8.7	6.6	5.7	6.2	5.9	5.3	5.6	4.0	3.6	3.8
10	8.5	7.3	7.9	7.2	6.3	6.7	6.3	5.7	6.0	4.1	3.7	3.9
11	8.3	6.7	7.5	6.9	5.8	6.4	6.2	5.9	6.1	3.7	2.8	3.1
12	8.7	7.0	7.8	6.5	5.5	6.1	6.5	5.6	6.0	4.1	3.2	3.7
13	8.8	7.3	8.0	6.9	6.1	6.5	6.4	5.6	6.0	4.4	3.8	4.0
14	8.8	7.2	8.0	6.4	5.2	5.9	6.5	5.9	6.2	4.4	3.5	4.0
15	8.7	7.3	8.1	6.8	5.8	6.3	6.0	4.8	5.2	4.7	4.2	4.4
16	8.6	7.1	7.8	7.0	6.4	6.7	5.4	4.9	5.2	5.1	4.4	4.7
17	8.2	7.4	7.9	6.4	5.2	5.5	5.6	5.1	5.4	5.1	4.4	4.8
18	7.9	7.2	7.6	6.0	5.1	5.5	5.5	5.0	5.3	5.6	4.9	5.2
19	8.5	7.3	7.8	5.6	4.9	5.3	5.7	4.8	5.3	5.6	4.9	5.3
20	8.2	7.5	7.9	5.1	4.2	4.6	5.5	4.4	5.0	5.8	5.0	5.4
21	8.0	7.6	7.8	5.1	4.2	4.8	4.4	3.7	4.0	5.3	4.6	5.0
22	8.0	7.4	7.7	5.3	4.8	5.0	5.0	4.0	4.5	6.0	4.6	5.3
23	8.0	7.1	7.7	5.8	4.6	5.2	4.6	3.6	3.9	5.9	5.1	5.5
24	7.5	6.6	7.0	6.5	5.6	6.1	3.8	3.2	3.5	5.5	4.7	5.2
25	7.1	5.7	6.5	6.6	5.8	6.2	4.5	3.4	3.9	6.2	5.0	5.6
26	7.6	6.8	7.1	5.8	5.1	5.4	4.6	4.0	4.3	6.6	5.8	6.2
27	7.4	6.8	7.0	5.1	4.4	4.9	4.6	3.8	4.2	6.4	5.7	5.9
28	7.2	6.5	6.9	5.2	4.1	4.7	4.9	4.1	4.5	6.3	5.5	5.8
29	7.4	6.8	7.0	4.4	3.4	4.0	4.8	4.4	4.6	6.2	5.6	5.8
30	7.0	6.4	6.6	5.2	4.1	4.7	4.5	3.9	4.2	5.6	4.5	5.0
31	6.8	5.7	6.3	---	---	---	4.6	3.7	4.2	5.4	4.5	4.9
MONTH	9.8	5.7	7.8	7.4	3.4	5.6	6.5	2.8	4.7	6.6	2.1	4.6

WILLAMETTE RIVER BASIN

14159200 SOUTH FORK MCKENZIE RIVER ABOVE COUGAR LAKE, NEAR RAINBOW, OR—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	4.6	3.8	4.2	6.0	4.4	5.3	6.3	5.0	5.5	8.3	6.7	7.5
2	4.8	3.8	4.3	6.6	5.3	5.9	6.4	5.0	5.6	8.5	7.1	7.6
3	5.3	4.1	4.7	5.9	4.0	5.0	5.8	5.2	5.5	10.6	6.8	8.1
4	5.8	4.5	5.1	6.6	4.8	5.6	6.0	4.7	5.2	9.6	7.7	8.4
5	5.4	4.4	4.9	6.5	4.7	5.6	6.5	4.8	5.6	8.8	7.8	8.2
6	4.7	4.1	4.3	6.6	4.5	5.6	7.5	5.4	6.3	8.0	7.6	7.8
7	4.7	3.9	4.2	7.2	5.2	6.1	6.3	5.5	5.9	8.9	7.2	8.0
8	4.2	3.4	3.8	7.1	5.2	6.1	6.5	4.7	5.6	8.8	7.7	8.0
9	4.5	3.6	3.9	7.2	5.2	6.2	6.4	5.4	5.9	7.8	6.5	7.3
10	4.4	3.3	3.8	7.6	5.5	6.5	6.9	5.0	5.9	7.2	6.0	6.6
11	4.7	3.5	4.1	7.7	5.4	6.5	6.5	5.6	6.1	8.0	6.6	7.2
12	5.0	3.8	4.4	7.7	5.6	6.5	5.8	4.9	5.3	9.2	6.9	7.9
13	5.0	4.0	4.5	6.8	4.6	5.7	6.2	4.4	5.1	9.3	7.5	8.3
14	4.3	3.3	3.8	6.5	4.0	5.2	6.6	4.3	5.2	9.9	8.0	8.8
15	3.7	2.6	3.2	6.7	4.2	5.4	6.8	4.2	5.4	9.0	8.4	8.8
16	4.1	3.0	3.4	6.5	4.7	5.6	6.7	5.8	6.2	8.4	7.4	8.0
17	4.4	2.8	3.5	6.7	5.5	6.1	6.1	5.1	5.6	7.9	6.9	7.4
18	5.0	3.4	4.1	6.9	5.6	6.2	6.5	4.7	5.4	8.6	7.4	7.8
19	5.2	4.3	4.7	7.2	6.1	6.6	7.5	5.1	6.0	8.6	7.3	7.9
20	5.7	4.8	5.2	6.9	5.8	6.4	8.2	5.4	6.6	8.3	7.3	7.7
21	5.2	4.0	4.7	6.4	5.0	5.7	8.1	5.8	6.8	8.2	6.9	7.5
22	5.3	3.8	4.5	6.8	5.3	6.0	8.3	5.5	6.8	9.0	7.4	8.0
23	5.5	3.8	4.6	6.1	5.0	5.7	7.1	6.3	6.5	9.7	6.9	8.1
24	5.5	3.9	4.7	5.3	3.8	4.6	7.7	5.9	6.7	10.2	6.7	8.3
25	5.6	3.9	4.7	6.2	4.5	5.3	7.7	6.4	6.9	11.2	7.1	9.0
26	5.7	4.0	4.8	6.1	5.0	5.6	9.0	6.2	7.3	11.9	8.1	9.8
27	6.3	4.3	5.3	6.1	5.7	5.8	8.0	6.4	7.2	12.1	8.8	10.1
28	6.4	5.3	5.9	5.7	4.7	5.2	7.8	6.8	7.2	10.8	9.1	9.8
29	---	---	---	4.7	4.2	4.4	7.8	6.8	7.1	9.8	8.7	9.3
30	---	---	---	5.7	4.3	4.9	9.7	6.8	7.8	10.8	8.6	9.5
31	---	---	---	6.6	4.3	5.3	---	---	---	9.7	8.6	9.1
MONTH	6.4	2.6	4.4	7.7	3.8	5.7	9.7	4.2	6.1	12.1	6.0	8.3
	JUNE			JULY			AUGUST			SEPTEMBER		
1	9.5	8.2	8.8	13.8	9.8	11.6	12.7	10.0	11.4	12.1	8.8	10.4
2	10.3	8.1	9.0	13.2	9.0	11.0	13.4	9.5	11.3	11.6	9.0	10.3
3	11.3	8.0	9.4	13.0	8.9	10.8	13.4	9.1	11.2	11.3	9.1	10.1
4	11.0	7.5	9.1	13.4	8.8	11.0	13.8	9.6	11.6	11.2	8.7	9.9
5	9.2	7.9	8.4	13.7	9.4	11.4	13.9	9.9	11.8	10.9	7.8	9.3
6	8.5	7.3	7.8	12.1	10.0	11.1	13.8	9.9	11.8	11.2	8.0	9.5
7	8.5	7.1	7.7	13.8	9.9	11.6	13.6	9.7	11.6	11.5	8.3	9.8
8	9.9	6.6	8.1	11.9	9.6	10.8	13.6	9.7	11.6	11.6	8.6	10.0
9	10.9	7.4	9.0	11.7	9.6	10.6	13.6	9.6	11.5	10.2	9.0	9.6
10	10.1	8.3	9.2	11.3	9.3	10.3	13.2	9.5	11.3	9.5	8.4	8.9
11	9.2	8.4	8.8	13.8	9.6	11.4	12.8	8.9	10.8	9.8	7.6	8.6
12	10.6	7.6	8.9	13.9	10.1	11.8	12.9	8.9	10.8	9.9	7.3	8.6
13	11.0	8.2	9.4	13.7	9.7	11.6	13.1	9.3	11.1	10.2	7.4	8.7
14	10.0	8.7	9.3	13.9	9.3	11.5	12.9	9.2	11.0	10.3	7.7	8.9
15	11.4	7.9	9.5	14.4	9.9	12.0	13.1	9.2	11.1	10.2	7.7	8.9
16	9.7	8.6	9.1	14.2	10.0	11.9	13.0	9.4	11.2	9.3	7.9	8.6
17	9.7	8.2	8.9	14.2	9.6	11.8	12.4	9.3	10.8	9.8	8.2	8.8
18	10.1	8.1	9.0	14.6	10.1	12.2	12.7	9.2	10.9	9.6	7.1	8.3
19	10.8	8.0	9.2	14.4	10.1	12.1	13.0	9.3	11.0	10.0	7.3	8.6
20	12.4	8.3	10.1	14.1	9.7	11.8	13.2	9.5	11.2	9.9	7.6	8.7
21	11.4	8.9	10.1	13.3	9.9	11.6	13.5	9.7	11.5	9.7	7.4	8.5
22	11.1	9.1	9.9	14.3	10.6	12.2	12.2	9.7	11.1	9.5	7.2	8.3
23	12.5	8.0	10.1	14.2	9.8	11.9	12.1	9.2	10.6	9.4	7.7	8.5
24	12.9	8.8	10.7	13.6	9.5	11.5	11.9	8.2	10.1	8.6	6.4	7.6
25	12.5	9.0	10.5	13.4	8.9	11.1	12.4	8.5	10.3	8.5	6.0	7.2
26	11.9	8.8	10.4	13.7	9.2	11.3	12.4	9.1	10.7	9.0	6.4	7.6
27	10.4	9.2	9.8	13.9	9.5	11.6	12.2	8.6	10.4	9.4	7.2	8.2
28	11.5	9.0	10.0	14.1	10.0	11.9	12.1	8.5	10.3	9.4	7.2	8.3
29	13.1	8.6	10.6	14.1	9.9	11.9	10.9	9.3	9.9	9.5	7.2	8.3
30	13.7	9.3	11.3	14.0	9.6	11.7	11.5	8.4	9.8	10.1	8.4	9.1
31	---	---	---	14.2	9.9	11.9	11.9	8.4	10.1	---	---	---
MONTH	13.7	6.6	9.4	14.6	8.8	11.5	13.9	8.2	11.0	12.1	6.0	8.9
YEAR	14.6	2.1	7.4									

WILLAMETTE RIVER BASIN

14159200 SOUTH FORK MCKENZIE RIVER ABOVE COUGAR LAKE, NEAR RAINBOW, OR—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/- 2.5 DEGREES, FNU
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
8	<1	<1	<1	<1	<1	<1	27	<1	13	<1	<1	<1
9	<1	<1	<1	<1	<1	<1	30	16	24	<1	<1	<1
10	<1	<1	<1	<1	<1	<1	16	4	7	<1	<1	<1
11	<1	<1	<1	<1	<1	<1	4	2	3	<1	<1	<1
12	<1	<1	<1	<1	<1	<1	2	1	2	<1	<1	<1
13	<1	<1	<1	<1	<1	<1	2	<1	1	<1	<1	<1
14	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1
15	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
17	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
18	<1	<1	<1	<1	<1	<1	2	<1	<1	2	<1	1
19	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
21	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
22	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
23	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
24	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
26	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
27	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
28	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
29	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
30	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
31	<1	<1	<1	---	---	---	<1	<1	<1	<1	<1	<1
MAX	1	<1	<1	<1	<1	<1	30	16	24	2	<1	1
MIN	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
FEBRUARY			MARCH			APRIL			MAY			
1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1
2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1
4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
5	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1
6	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
7	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
8	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
9	<1	<1	<1	<1	<1	<1	1	<1	<1	1	<1	<1
10	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
11	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
12	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
13	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
14	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
17	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
18	<1	<1	<1	1	<1	<1	<1	<1	<1	2	<1	1
19	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1
20	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
21	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
22	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
23	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
24	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
25	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
26	<1	<1	<1	4	<1	<1	<1	<1	<1	1	<1	<1
27	<1	<1	<1	10	2	5	<1	<1	<1	3	<1	<1
28	<1	<1	<1	4	2	2	<1	<1	<1	10	<1	<1
29	---	---	---	2	1	2	<1	<1	<1	<1	<1	<1
30	---	---	---	2	<1	1	<1	<1	<1	<1	<1	<1
31	---	---	---	1	<1	<1	---	---	---	<1	<1	<1
MAX	<1	<1	<1	10	2	5	1	<1	<1	10	<1	1
MIN	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

WILLAMETTE RIVER BASIN

14159200 SOUTH FORK MCKENZIE RIVER ABOVE COUGAR LAKE, NEAR RAINBOW, OR—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/- 2.5 DEGREES, FNU—
CONTINUED

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
5	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1
6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
9	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
10	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
11	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
12	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
13	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
14	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
17	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
18	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
19	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
21	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
22	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
23	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
24	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
26	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
27	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
28	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
29	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
30	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
31	---	---	---	<1	<1	<1	<1	<1	<1	---	---	---
MAX	2	<1	<1	2	<1	<1	<1	<1	<1	1	<1	<1
MIN	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

WILLAMETTE RIVER BASIN

14159500 SOUTH FORK MCKENZIE RIVER NEAR RAINBOW, OR

LOCATION.--Lat 44°08'10", long 122°14'50", in NE ¼ sec.31, T.16 S., R.5 E., Lane County, Hydrologic Unit 17090004, in Willamette National Forest, on right bank 0.2 mi upstream from Cougar Creek, 0.6 mi downstream from Cougar Dam, 2.1 mi south of Rainbow, and at mile 3.9.

DRAINAGE AREA.--208 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1947 to current year.

REVISED RECORDS.--WSP 1638: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,236.42 ft above NGVD of 1929 (Federal Highway Administration bench mark). Oct. 1 to Nov. 4, 1947, nonrecording gage at site 40 ft upstream at datum 0.80 ft higher.

REMARKS.--No estimated daily discharges. Records good except those for the periods Oct. 24-30, Nov. 12-29, Dec. 25 to Jan. 5, Jan. 10-19, Apr. 27, which are poor. Flow regulated since 1963 by Cougar Lake (station 14159400), usable capacity, 164,800 acre-ft. No diversion upstream from station.

AVERAGE DISCHARGE.--58 years (water years 1948-2005), 844 ft³/s, 55.10 in/yr, 611,500 acre-ft/yr, adjusted for storage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,600 ft³/s Dec. 11, 1956, gage height, 8.66 ft, from rating curve extended above 8,100 ft³/s; maximum gage height, 8.90 ft Dec. 22, 1955 (backwater from debris); minimum discharge, 17 ft³/s Nov. 18, 1965; minimum daily, 85 ft³/s Apr. 26-28, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 24,500 ft³/s Dec. 28, 1945, gage height, 8.8 ft, from floodmarks, at Corps of Engineers gage at site 40 ft upstream at datum 0.80 ft higher; gage height at present site and datum, about 9.3 ft, computed by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,830 ft³/s Dec. 12, gage height, 3.70 ft; minimum discharge, 169 ft³/s Mar. 18, Apr. 22.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	264	399	295	516	282	275	205	473	447	326	763	470
2	264	482	297	507	281	277	211	477	449	309	761	485
3	264	774	273	379	277	277	218	480	453	311	759	470
4	264	904	270	290	277	277	204	574	458	310	767	472
5	264	862	275	305	277	277	196	814	458	311	774	475
6	264	631	599	313	277	277	199	791	446	305	773	479
7	264	459	1,080	315	277	277	200	603	378	298	769	482
8	237	465	1,620	319	275	274	203	593	301	518	767	483
9	227	404	2,590	321	273	273	204	584	297	595	837	479
10	230	379	2,710	303	273	271	205	471	297	593	931	483
11	231	390	2,780	277	273	221	211	342	296	596	959	482
12	228	247	2,800	275	278	194	213	304	299	597	949	491
13	227	240	2,710	275	283	191	217	260	296	609	952	495
14	229	280	2,660	283	278	194	217	262	299	678	958	488
15	230	269	2,130	286	278	195	207	264	298	753	968	485
16	233	368	1,410	280	279	196	209	257	340	760	978	481
17	250	368	1,160	289	279	196	212	261	414	761	980	485
18	441	474	1,010	318	282	192	211	261	412	751	975	485
19	560	578	987	294	286	176	201	256	412	752	842	491
20	591	537	841	268	285	184	204	265	412	760	704	474
21	534	634	1,270	270	283	181	208	266	413	767	701	496
22	409	661	1,220	273	287	177	208	269	415	776	627	503
23	470	604	679	273	287	181	205	257	417	776	461	503
24	831	317	632	275	293	185	204	251	378	754	463	506
25	825	317	595	277	300	191	289	249	380	764	467	511
26	825	438	637	277	286	193	354	256	382	757	470	508
27	654	449	684	277	273	201	414	261	383	752	471	503
28	502	488	548	279	273	205	279	450	384	759	473	502
29	350	371	479	282	---	215	419	457	382	768	476	509
30	282	295	499	284	---	218	456	455	377	768	508	512
31	285	---	503	284	---	214	---	447	---	768	466	---
TOTAL	11,729	14,084	36,243	9,464	7,852	6,855	7,183	12,210	11,373	19,302	22,749	14,688
MEAN	378	469	1,169	305	280	221	239	394	379	623	734	490
MAX	831	904	2,800	516	300	277	456	814	458	776	980	512
MIN	227	240	270	268	273	176	196	249	296	298	461	470
AC-FT	23,260	27,940	71,890	18,770	15,570	13,600	14,250	24,220	22,560	38,290	45,120	29,130
MEAN†	386	470	1,244	551	552	618	1,113	1,183	594	322	254	211
CFSM†	1.86	2.26	5.98	2.65	2.65	2.97	5.35	5.69	2.86	1.55	1.22	1.01
IN.†	2.14	2.52	6.90	3.05	2.17	3.43	5.97	6.56	3.19	1.78	1.41	1.13
AC-FT†	23,760	27,940	76,490	33,870	24,070	38,000	66,250	72,720	35,360	19,790	15,620	12,530

CAL YR2004 TOTAL 297,146 MEAN 812 MAX 2,800 MIN 227 AC-FT 589,400 MEAN† 819 CFSM† 3.94 IN.† 53.63 AC-FT† 594,800
WTR YR2005 TOTAL 173,732 MEAN 476 MAX 2,800 MIN 176 AC-FT 344,600 MEAN† 627 CFSM† 3.01 IN.† 40.25 AC-FT† 446,400

† Adjusted for change in contents, in Cougar Lake.



2005 Water Year
WILLAMETTE RIVER BASIN

14159500 SOUTH FORK MCKENZIE RIVER NEAR RAINBOW, OR

Latitude: 44° 08' 10"

Longitude: 122° 14' 50"

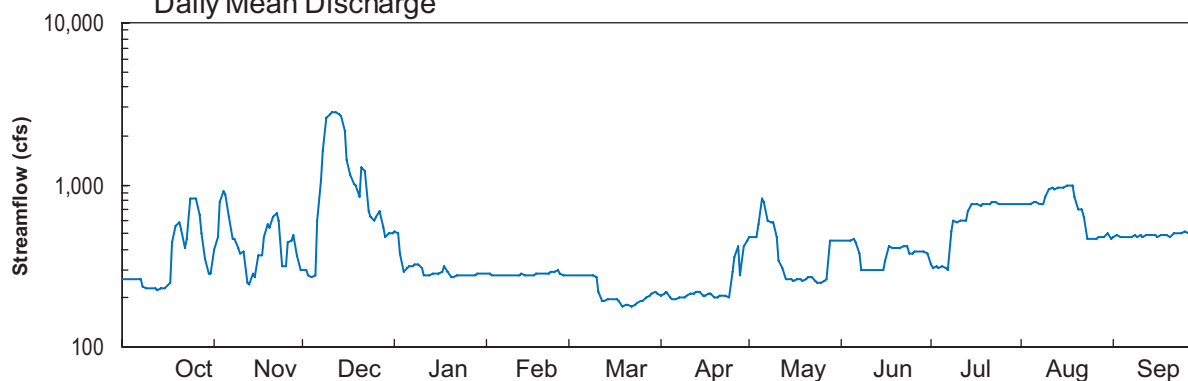
Hydrologic Unit Code: 17090004

Lane County

Datum: 1236.42 feet

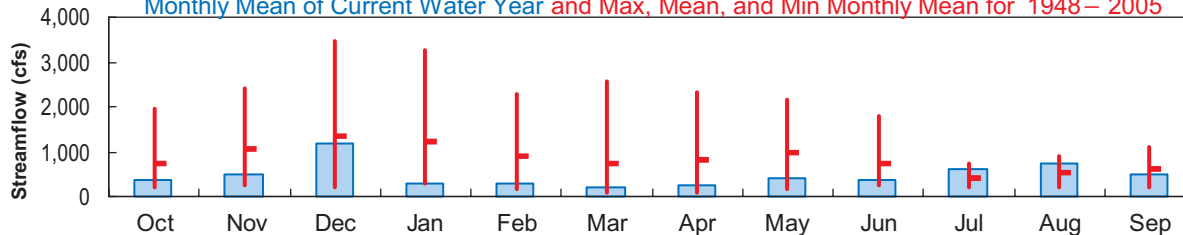
Drainage Area: 208 mi²

Daily Mean Discharge

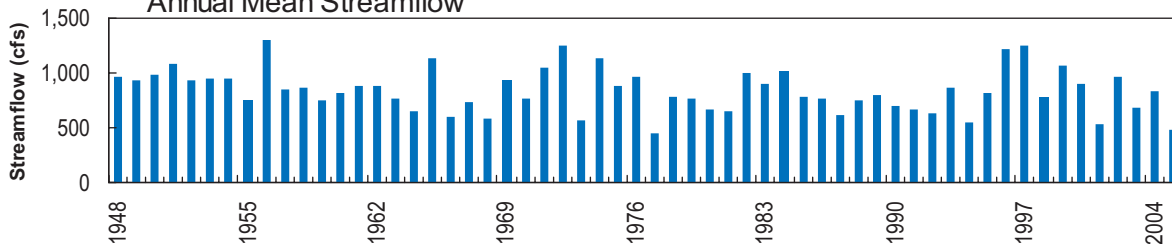


Monthly Statistics

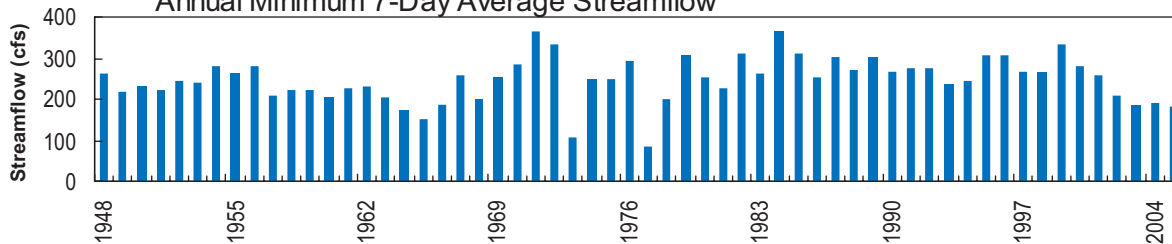
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1948–2005



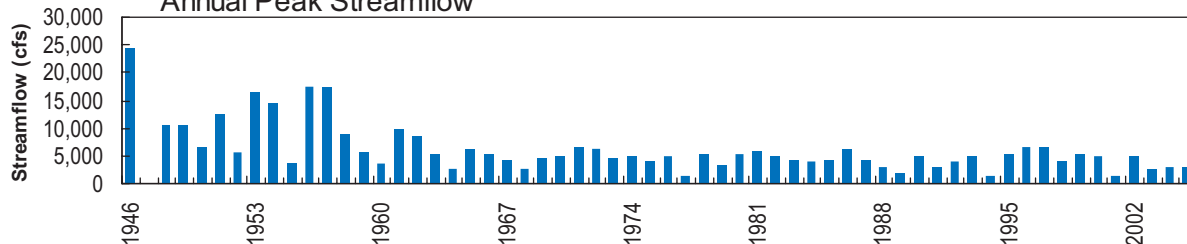
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



WILLAMETTE RIVER BASIN

14159500 SOUTH FORK MCKENZIE RIVER NEAR RAINBOW, OR—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: July 1955 to November 1999, December 2000 to current year.

DISSOLVED OXYGEN: December 2000 to current year.

TURBIDITY: December 2000 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--

WATER TEMPERATURE: Records good.

DISSOLVED OXYGEN: Records good except those for the period May 25 to Sept. 30, which are poor.

TURBIDITY: Records good except those for the periods Mar. 3-8, Apr. 18-29, June 29 to July 7, July 16-24, Sept. 5-12, which are fair. Turbidity data are highly dependent on the instrumentation used for the measurement. See the "Definitions" section for turbidity in the front of this report. Water-quality data collected at this site may not always provide a representative value of the total stream due to inadequate mixing of the flow between the dam (0.6 mi upstream) and the gage.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 20.0°C July 28, 1958; minimum, 0.5°C Jan. 20-23, 1962.

DISSOLVED OXYGEN: Maximum, 14.5 mg/L Feb. 23, 2002, due to Cougar Lake tunnel tap; minimum, 7.4 mg/L Sept. 15, 2001.

TURBIDITY: Maximum, 1,410 FNU Feb. 23, 2002, due to Cougar Lake tunnel tap; minimum, <1 FNU many days each year.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 16.4°C July 23; minimum, 4.2°C Jan. 8, 15.

DISSOLVED OXYGEN: Maximum, 12.7 mg/L Jan. 13, 14, 16; minimum, 8.1 mg/L Sept 29, 30.

TURBIDITY: Maximum, 606 FNU Aug. 30; minimum, <1 FNU many days during year.

 TEMPERATURE, WATER, DEGREES CELSIUS
 WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	14.1	12.8	13.2	9.6	8.6	9.1	6.7	6.1	6.4	6.1	5.4	5.8
2	13.9	12.7	13.1	9.4	8.6	9.0	6.7	6.1	6.4	6.0	5.4	5.7
3	13.8	12.6	13.0	9.6	8.6	9.1	6.7	5.9	6.3	5.9	5.1	5.5
4	13.7	12.5	12.9	9.8	8.2	8.9	6.5	5.7	6.1	5.5	4.9	5.2
5	13.5	12.5	12.9	8.7	7.9	8.3	6.3	5.6	6.0	5.6	4.8	5.2
6	13.2	12.6	12.8	8.5	7.7	8.1	6.5	5.5	6.0	5.3	4.7	5.1
7	13.5	12.6	12.9	8.3	7.6	8.0	6.3	5.6	6.1	5.1	4.4	4.8
8	13.5	12.6	12.9	8.4	7.6	8.0	6.5	5.6	6.0	5.0	4.2	4.7
9	13.2	12.4	12.7	8.4	7.8	8.1	6.7	6.1	6.4	5.0	4.4	4.7
10	13.4	12.2	12.6	8.5	7.8	8.1	6.7	6.1	6.4	5.0	4.4	4.7
11	13.3	11.9	12.4	8.5	7.8	8.2	6.7	6.2	6.5	4.8	4.3	4.6
12	13.1	11.8	12.3	8.5	7.7	8.2	6.9	6.3	6.6	5.0	4.4	4.7
13	13.2	11.6	12.2	8.5	7.9	8.1	7.1	6.5	6.8	5.0	4.3	4.7
14	12.9	11.6	12.2	8.4	7.7	8.1	7.1	6.7	6.9	5.0	4.3	4.6
15	12.6	11.7	12.1	8.4	7.7	8.1	7.2	6.7	7.0	4.9	4.2	4.6
16	12.8	11.5	12.0	8.4	7.9	8.1	7.3	6.2	6.7	5.0	4.3	4.7
17	12.1	11.6	11.9	8.5	7.7	8.1	6.7	6.2	6.4	5.0	4.4	4.7
18	12.1	11.2	11.7	8.4	7.5	8.0	6.7	6.2	6.4	5.1	4.5	4.8
19	11.7	10.8	11.3	8.2	7.5	7.8	6.9	6.2	6.6	5.1	4.5	4.8
20	11.7	10.8	11.3	8.1	7.3	7.7	6.9	6.3	6.6	5.0	4.4	4.7
21	11.6	10.9	11.3	7.8	6.9	7.4	7.0	6.3	6.6	5.0	4.5	4.7
22	11.5	10.7	11.1	7.4	6.7	7.1	6.8	5.9	6.4	5.1	4.5	4.8
23	11.3	10.5	10.9	7.4	6.7	7.0	6.5	5.8	6.1	5.1	4.5	4.8
24	10.9	9.8	10.5	7.3	6.9	7.1	6.4	5.6	6.1	5.1	4.4	4.8
25	10.6	9.4	10.1	7.5	7.0	7.2	6.0	5.3	5.7	5.1	4.5	4.8
26	10.3	9.5	9.9	7.6	6.8	7.2	6.1	5.4	5.7	5.2	4.6	4.9
27	10.4	9.4	9.9	7.5	7.0	7.3	6.1	5.5	5.8	5.2	4.5	4.9
28	10.2	9.3	9.8	7.5	6.8	7.2	6.1	5.5	5.8	5.1	4.6	4.9
29	10.3	9.3	9.8	7.2	6.3	6.8	6.1	5.5	5.8	5.2	4.6	4.9
30	10.2	9.3	9.7	6.8	6.1	6.5	6.1	5.5	5.8	5.2	4.7	4.9
31	9.9	8.8	9.4	---	---	---	6.1	5.6	5.9	5.3	4.6	4.9
MONTH	14.1	8.8	11.6	9.8	6.1	7.9	7.3	5.3	6.3	6.1	4.2	4.9

WILLAMETTE RIVER BASIN

14159500 SOUTH FORK MCKENZIE RIVER NEAR RAINBOW, OR—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	5.3	4.5	4.9	5.7	4.7	5.1	6.0	5.2	5.5	6.5	5.6	5.9
2	5.4	4.7	5.0	5.5	4.7	5.1	6.0	5.2	5.6	6.3	5.7	5.9
3	5.4	4.5	5.1	5.8	4.7	5.1	5.9	5.2	5.5	6.7	5.6	6.0
4	5.4	4.8	5.1	5.8	4.8	5.1	6.4	5.2	5.6	6.8	5.8	6.2
5	5.5	4.7	5.1	5.8	4.6	5.1	6.4	5.2	5.6	7.3	6.6	7.0
6	5.4	4.7	5.1	6.0	4.8	5.2	6.4	5.2	5.7	7.4	6.8	7.1
7	5.6	4.9	5.2	5.9	4.8	5.2	6.0	5.3	5.6	7.4	6.8	7.1
8	5.7	4.8	5.2	6.0	4.8	5.2	6.8	5.2	5.7	7.4	6.8	7.1
9	5.7	4.8	5.2	5.9	4.8	5.2	6.6	5.2	5.8	7.3	6.8	7.0
10	5.8	4.8	5.2	6.0	4.9	5.2	6.8	5.2	5.8	7.3	6.5	7.0
11	5.8	4.7	5.2	6.4	4.8	5.3	6.7	5.3	5.8	7.1	6.5	6.7
12	5.5	4.8	5.2	6.6	4.8	5.3	6.6	5.2	5.7	7.6	6.3	6.8
13	5.5	4.7	5.1	6.6	4.8	5.3	6.5	5.1	5.6	7.6	6.3	6.7
14	5.5	4.6	5.0	6.6	4.6	5.3	7.0	5.2	5.8	7.6	6.4	6.8
15	5.6	4.6	5.0	6.4	4.7	5.3	6.4	5.2	5.7	6.8	6.3	6.6
16	5.6	4.6	5.0	5.6	4.8	5.2	6.1	5.3	5.7	7.3	6.4	6.8
17	5.6	4.6	5.0	5.7	4.8	5.2	6.4	5.3	5.7	8.9	6.6	7.7
18	5.7	4.6	5.0	5.6	4.9	5.2	6.9	5.4	5.9	11.4	8.7	9.8
19	5.2	4.7	4.9	5.8	4.9	5.3	7.3	5.4	6.0	10.6	9.3	9.9
20	5.2	4.7	4.9	5.6	4.9	5.2	7.4	5.5	6.0	10.0	9.3	9.6
21	5.5	4.5	4.9	5.9	4.8	5.3	7.4	5.4	6.0	9.8	9.0	9.4
22	5.6	4.5	4.9	6.0	5.0	5.3	7.3	5.4	6.0	10.2	8.9	9.4
23	5.6	4.6	5.0	5.7	4.8	5.2	6.2	5.5	5.8	10.3	8.8	9.4
24	5.6	4.5	5.0	5.8	4.5	5.1	7.1	5.6	6.0	10.3	8.8	9.5
25	5.6	4.6	5.0	5.9	5.0	5.4	6.7	5.6	6.0	11.6	9.1	10.4
26	5.8	4.6	5.0	5.6	5.0	5.3	7.2	5.5	6.1	10.9	9.6	10.2
27	5.7	4.8	5.1	6.2	5.2	5.7	7.3	5.6	6.2	11.1	9.7	10.1
28	5.3	4.8	5.1	6.1	5.4	5.7	6.7	5.6	6.0	11.3	9.8	10.7
29	---	---	---	6.0	5.3	5.6	7.0	5.7	6.2	11.3	10.4	10.8
30	---	---	---	6.2	5.2	5.6	6.7	5.7	6.0	11.2	10.3	10.8
31	---	---	---	6.9	5.2	5.7	---	---	---	12.4	10.5	11.2
MONTH	5.8	4.5	5.0	6.9	4.5	5.3	7.4	5.1	5.8	12.4	5.6	8.2
	JUNE			JULY			AUGUST			SEPTEMBER		
1	12.7	11.9	12.4	14.0	12.7	13.4	15.5	14.7	15.1	14.2	13.0	13.7
2	12.6	11.0	11.8	14.0	12.2	13.4	15.9	14.1	15.1	14.1	12.8	13.5
3	12.7	10.5	11.9	14.4	13.0	13.7	15.7	14.2	15.2	14.1	12.9	13.4
4	12.9	10.8	12.0	14.7	13.0	13.9	15.8	14.2	15.2	13.8	12.5	13.2
5	13.1	11.4	12.5	14.7	13.0	13.8	15.4	14.3	15.1	14.2	12.6	13.5
6	12.6	11.5	12.0	14.0	7.4	12.9	15.4	14.1	15.0	13.9	12.9	13.4
7	12.4	10.7	11.6	14.5	13.3	13.8	15.5	14.5	15.1	13.8	12.7	13.3
8	12.6	10.9	11.8	15.3	13.6	14.6	15.5	13.7	14.9	13.7	12.0	13.1
9	12.8	10.5	11.6	15.3	14.4	14.8	15.8	13.7	15.0	13.3	12.4	12.8
10	11.7	10.8	11.4	15.0	13.9	14.4	15.4	13.5	14.7	13.3	12.6	12.9
11	12.0	10.8	11.7	15.0	13.6	14.4	15.7	13.5	14.9	13.2	12.0	12.7
12	12.5	10.9	11.6	15.1	14.1	14.7	15.3	13.5	14.6	13.4	11.8	12.7
13	12.0	10.9	11.6	15.4	14.0	14.7	15.3	13.4	14.5	13.1	11.9	12.6
14	12.5	11.1	11.9	15.7	9.3	14.8	15.6	13.9	14.7	13.0	11.7	12.5
15	13.0	11.3	12.0	15.7	14.6	15.3	14.8	13.0	14.3	12.8	11.3	12.2
16	12.9	11.9	12.4	15.7	14.3	15.1	14.5	12.8	14.0	12.5	11.6	12.0
17	13.0	11.7	12.5	16.2	14.8	15.6	14.5	12.5	13.7	12.4	11.4	11.9
18	12.8	11.9	12.4	16.0	14.7	15.7	14.5	13.0	13.9	12.7	11.3	12.1
19	12.8	11.8	12.3	16.1	14.5	15.6	14.6	12.8	13.9	12.6	11.2	12.0
20	12.7	11.3	12.1	16.1	15.1	15.7	14.8	13.2	14.1	12.1	11.1	11.8
21	13.1	11.4	12.5	16.3	15.4	15.9	15.2	13.5	14.1	12.1	11.2	11.7
22	13.2	11.6	12.5	16.0	10.2	15.1	14.8	12.6	13.9	12.2	10.9	11.6
23	13.6	12.5	13.1	16.4	14.4	15.7	13.8	12.3	13.3	12.2	11.0	11.5
24	13.8	12.4	13.1	15.9	13.9	15.3	14.2	12.7	13.6	12.3	10.8	11.6
25	14.1	11.9	13.3	16.1	14.5	15.5	14.4	12.6	13.8	12.4	10.9	11.8
26	13.7	12.1	13.1	16.2	14.8	15.7	14.4	12.5	13.7	12.2	10.3	11.4
27	13.6	12.6	13.1	16.2	14.8	15.6	14.4	12.8	13.7	11.2	10.4	10.9
28	13.9	12.9	13.3	15.7	14.4	15.3	14.4	12.6	13.6	11.6	10.6	11.1
29	14.3	12.6	13.5	15.9	14.3	15.4	14.1	13.0	13.6	11.7	10.3	11.2
30	14.3	12.8	13.6	16.0	14.2	15.5	14.3	12.6	13.7	11.4	9.6	10.5
31	---	---	---	15.8	14.2	15.3	14.0	12.8	13.6	---	---	---
MONTH	14.3	10.5	12.4	16.4	7.4	14.9	15.9	12.3	14.3	14.2	9.6	12.3
YEAR	16.4	4.2	9.1									

WILLAMETTE RIVER BASIN

14159500 SOUTH FORK MCKENZIE RIVER NEAR RAINBOW, OR—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	9.6	9.3	9.4	11.4	11.0	11.1	12.3	11.9	12.0	12.2	12.0	12.1
2	9.8	9.4	9.5	11.2	11.1	11.1	12.3	11.9	12.1	12.3	12.1	12.2
3	9.8	9.5	9.6	11.4	11.1	11.3	12.3	11.9	12.0	12.3	12.2	12.2
4	9.8	9.4	9.5	11.5	11.3	11.4	12.2	11.8	11.9	12.3	12.2	12.2
5	9.7	9.3	9.5	11.6	11.5	11.5	12.2	11.8	11.9	12.5	12.3	12.4
6	9.7	9.3	9.4	11.5	11.4	11.5	12.2	11.8	11.9	12.5	12.3	12.4
7	9.7	9.3	9.4	11.5	11.3	11.4	12.4	12.1	12.3	12.3	12.1	12.2
8	9.6	9.1	9.3	11.5	11.3	11.3	12.4	12.0	12.2	12.4	12.2	12.3
9	9.8	9.2	9.4	11.5	11.3	11.4	12.5	12.4	12.4	12.5	12.3	12.4
10	9.8	9.4	9.6	11.5	11.2	11.4	12.5	12.4	12.4	12.5	12.3	12.4
11	9.9	9.4	9.6	11.5	11.2	11.4	12.4	12.4	12.4	12.5	12.3	12.4
12	10.0	9.5	9.7	11.5	11.1	11.3	12.4	12.3	12.3	12.6	12.4	12.5
13	10.0	9.6	9.7	11.5	11.1	11.2	12.3	12.2	12.3	12.7	12.5	12.6
14	10.0	9.5	9.6	11.5	11.1	11.3	12.4	12.3	12.4	12.7	12.5	12.6
15	10.1	9.5	9.8	11.5	11.1	11.2	12.4	12.2	12.3	12.6	12.5	12.6
16	9.9	9.5	9.6	11.6	11.2	11.4	12.4	12.2	12.3	12.7	12.5	12.6
17	9.8	9.4	9.5	11.6	11.3	11.4	12.4	12.3	12.4	12.6	12.5	12.5
18	9.9	9.6	9.7	11.7	11.3	11.5	12.4	12.2	12.3	12.6	12.4	12.5
19	9.9	9.6	9.8	11.8	11.5	11.6	12.3	12.2	12.2	12.6	12.4	12.5
20	10.1	9.9	10	11.7	11.5	11.6	12.2	12.1	12.2	12.5	12.4	12.4
21	10.1	9.9	10	11.8	11.6	11.7	12.4	12.1	12.3	12.5	12.3	12.4
22	10.1	9.9	9.9	11.9	11.7	11.8	12.5	12.3	12.4	12.5	12.3	12.4
23	10.2	9.9	10.0	12.0	11.7	11.8	12.3	12.2	12.3	12.5	12.3	12.4
24	10.6	10.2	10.5	11.9	11.6	11.7	12.3	12.2	12.2	12.4	12.3	12.3
25	10.6	10.5	10.5	11.7	11.5	11.6	12.2	12.1	12.2	12.4	12.2	12.3
26	10.7	10.4	10.6	11.8	11.5	11.6	12.2	12.1	12.1	12.4	12.2	12.3
27	10.7	10.5	10.6	11.7	11.5	11.6	12.2	12.1	12.1	12.5	12.3	12.4
28	11.6	10.5	10.8	11.9	11.6	11.7	12.2	12.0	12.1	12.4	12.2	12.3
29	11.1	10.7	10.9	12.0	11.8	11.9	12.1	12.0	12.0	12.6	12.4	12.5
30	11.0	10.6	10.8	12.2	11.9	12.0	12.1	12.0	12.0	12.6	12.5	12.5
31	11.2	10.8	11.0	---	---	---	12.1	12.0	12.0	12.6	12.4	12.5
MONTH	11.6	9.1	9.9	12.2	11.0	11.5	12.5	11.8	12.2	12.7	12.0	12.4
FEBRUARY			MARCH			APRIL			MAY			
1	12.6	12.5	12.5	12.3	12.2	12.3	12.1	11.8	11.9	11.8	11.7	11.7
2	12.6	12.4	12.5	12.5	12.2	12.3	12.0	11.7	11.9	11.8	11.6	11.7
3	12.5	12.3	12.4	12.4	12.3	12.3	11.9	11.6	11.8	11.7	11.5	11.6
4	12.5	12.3	12.4	12.5	12.3	12.4	12.0	11.7	11.8	11.6	10.9	11.4
5	12.5	12.3	12.4	12.6	12.4	12.4	12.0	11.8	11.9	10.9	10.8	10.8
6	12.4	12.2	12.3	12.5	12.3	12.4	11.8	11.6	11.7	10.8	10.7	10.8
7	12.4	12.2	12.3	12.5	12.3	12.4	11.8	11.5	11.6	10.8	10.7	10.7
8	12.4	12.3	12.3	12.5	12.3	12.4	11.7	11.4	11.6	10.8	10.7	10.7
9	12.4	12.3	12.3	12.4	12.3	12.4	11.9	11.5	11.7	10.7	10.6	10.7
10	12.4	12.2	12.3	12.4	12.2	12.3	11.9	11.6	11.8	10.8	10.6	10.7
11	12.3	12.2	12.2	12.2	12.0	12.2	11.9	11.6	11.7	10.8	10.6	10.7
12	12.4	12.2	12.3	12.2	11.9	12.1	11.8	11.6	11.7	10.8	10.6	10.7
13	12.5	12.3	12.4	12.3	12.0	12.1	11.8	11.6	11.7	10.8	10.6	10.7
14	12.5	12.3	12.4	12.3	12.0	12.1	12.0	11.7	11.8	10.8	10.6	10.7
15	12.5	12.3	12.4	12.2	11.9	12.1	11.9	11.6	11.7	10.7	10.6	10.6
16	12.4	12.3	12.4	12.1	11.9	12.0	11.8	11.5	11.6	10.7	10.5	10.6
17	12.4	12.3	12.3	12.2	11.9	12.0	11.9	11.6	11.7	10.6	10.0	10.3
18	12.3	12.2	12.2	12.0	11.8	11.9	11.9	11.6	11.7	10.2	9.8	10
19	12.3	12.2	12.2	11.9	11.7	11.8	11.8	11.4	11.6	10.3	9.9	10.1
20	12.4	12.2	12.3	12.0	11.7	11.8	11.7	11.4	11.5	10.2	10.0	10.1
21	12.4	12.3	12.3	12.2	11.9	12.0	11.7	11.5	11.6	10.3	10.0	10.1
22	12.5	12.3	12.4	12.0	11.7	11.8	11.6	11.2	11.5	10.2	10.0	10.1
23	12.4	12.3	12.4	11.9	11.6	11.8	11.5	11.2	11.3	10.2	10.0	10.1
24	12.4	12.3	12.3	12.0	11.7	11.9	11.7	11.3	11.5	10.1	9.9	10.0
25	12.4	12.2	12.3	12.1	11.8	11.9	11.6	11.1	11.5	10.0	9.8	9.9
26	12.4	12.2	12.3	11.9	11.6	11.8	11.6	11.0	11.4	10.1	9.9	10
27	12.3	12.2	12.3	11.6	11.3	11.5	11.5	11.0	11.3	10.1	9.8	10
28	12.4	12.2	12.3	11.7	11.3	11.5	11.6	11.4	11.5	10.2	9.9	10.0
29	---	---	---	11.8	11.4	11.6	11.6	11.0	11.3	10.3	10.1	10.2
30	---	---	---	12.1	11.6	11.8	11.8	11.6	11.7	10.3	10.1	10.2
31	---	---	---	12.1	11.8	11.9	---	---	---	10.3	10.1	10.2
MONTH	12.6	12.2	12.3	12.6	11.3	12.0	12.1	11.0	11.6	11.8	9.8	10.5

WILLAMETTE RIVER BASIN

14159500 SOUTH FORK MCKENZIE RIVER NEAR RAINBOW, OR—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	10.2	9.9	10.1	9.7	9.3	9.5	9.5	9.3	9.4	8.8	8.6	8.7
2	10.2	9.9	10.0	9.6	9.1	9.3	9.6	9.1	9.3	8.8	8.6	8.7
3	10.3	9.9	10.1	9.3	9.1	9.2	9.5	9.1	9.3	8.8	8.6	8.7
4	10.2	9.8	10	9.5	9.0	9.2	9.5	9.1	9.3	8.9	8.6	8.7
5	10.0	9.5	9.7	9.7	9.2	9.4	9.5	9.2	9.3	8.8	8.5	8.7
6	9.8	9.5	9.7	11.5	9.4	9.9	9.5	9.2	9.3	8.8	8.6	8.6
7	10.0	9.5	9.7	10.3	9.8	10.1	9.5	9.1	9.3	8.7	8.5	8.6
8	9.8	9.5	9.6	10.1	9.7	9.8	9.6	9.1	9.3	8.8	8.5	8.6
9	10.0	9.4	9.7	10.0	9.7	9.8	9.6	9.1	9.3	8.8	8.5	8.7
10	9.9	9.6	9.7	10.1	9.6	9.8	9.7	9.2	9.4	8.7	8.5	8.6
11	9.8	9.5	9.6	10.2	9.7	9.9	9.6	9.2	9.4	8.8	8.6	8.7
12	9.9	9.5	9.7	10.0	9.7	9.8	9.6	9.2	9.4	8.9	8.5	8.7
13	9.8	9.5	9.7	10.0	9.6	9.7	9.6	9.2	9.4	8.9	8.6	8.7
14	9.8	9.4	9.5	10.7	9.3	9.6	9.5	9.2	9.3	9.0	8.7	8.9
15	9.8	9.4	9.6	9.7	9.3	9.5	9.7	9.2	9.4	9.1	8.8	8.9
16	9.6	9.3	9.5	9.9	9.3	9.5	9.7	9.3	9.5	9.0	8.8	8.9
17	9.6	9.3	9.4	9.6	9.2	9.4	9.8	9.3	9.5	9.0	8.8	8.9
18	9.7	9.4	9.6	9.6	9.2	9.4	9.6	9.4	9.5	8.9	8.7	8.8
19	9.8	9.4	9.6	9.7	9.2	9.4	9.6	9.3	9.4	8.9	8.6	8.7
20	10.1	9.6	9.8	9.6	9.2	9.3	9.5	9.2	9.3	8.9	8.6	8.7
21	10.1	9.6	9.8	9.4	9.1	9.2	9.5	9.2	9.4	8.8	8.5	8.6
22	10.0	9.7	9.8	9.9	9.2	9.5	9.6	9.2	9.4	8.7	8.4	8.5
23	9.8	9.5	9.6	9.6	9.1	9.3	9.7	9.3	9.4	8.6	8.4	8.5
24	9.9	9.5	9.6	9.7	9.1	9.3	9.6	9.2	9.4	8.5	8.3	8.4
25	9.9	9.4	9.6	9.7	9.1	9.4	9.7	9.1	9.4	8.5	8.2	8.4
26	10.1	9.5	9.7	9.5	9.1	9.3	9.7	9.2	9.4	8.5	8.2	8.3
27	9.9	9.6	9.8	9.5	9.0	9.2	9.6	9.1	9.4	8.5	8.3	8.4
28	9.8	9.6	9.7	9.5	9.1	9.3	9.5	9.0	9.2	8.4	8.2	8.3
29	9.8	9.4	9.6	9.6	9.1	9.3	9.4	9.2	9.3	8.4	8.1	8.2
30	9.7	9.4	9.5	9.5	9.1	9.3	9.6	9.0	9.3	8.5	8.1	8.3
31	---	---	---	9.6	9.1	9.3	9.0	8.7	8.8	---	---	---
MONTH	10.3	9.3	9.7	11.5	9.0	9.5	9.8	8.7	9.3	9.1	8.1	8.6
YEAR	12.7	8.1	10.8									

WILLAMETTE RIVER BASIN

14159500 SOUTH FORK MCKENZIE RIVER NEAR RAINBOW, OR—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/- 2.5 DEGREES, FNU
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	1	<1	<1	2	<1	1	1	<1	<1	2	1	1
2	1	<1	<1	3	2	2	<1	<1	<1	2	1	1
3	1	<1	<1	5	<1	<1	<1	<1	<1	2	1	1
4	1	<1	<1	<1	<1	<1	<1	<1	<1	2	1	1
5	1	<1	<1	1	<1	<1	<1	<1	<1	2	1	1
6	1	<1	<1	1	<1	<1	18	<1	<1	2	1	2
7	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	1	1
8	1	<1	<1	2	<1	<1	23	<1	4	2	1	1
9	2	<1	<1	1	<1	<1	29	5	11	2	<1	1
10	2	<1	<1	1	<1	<1	20	16	18	2	<1	<1
11	1	<1	<1	<1	<1	<1	17	13	15	1	<1	<1
12	1	<1	<1	<1	<1	<1	15	13	14	1	<1	<1
13	<1	<1	<1	1	<1	<1	16	11	13	1	<1	<1
14	<1	<1	<1	1	<1	<1	12	7	10	1	<1	<1
15	1	<1	<1	1	<1	<1	8	6	7	1	<1	<1
16	<1	<1	<1	<1	<1	<1	6	2	3	2	<1	<1
17	1	<1	<1	<1	<1	<1	3	2	2	1	<1	<1
18	2	<1	<1	<1	<1	<1	3	2	2	1	<1	<1
19	1	<1	<1	1	<1	<1	3	2	2	1	<1	<1
20	<1	<1	<1	<1	<1	<1	3	2	2	1	<1	1
21	---	<1	<1	<1	<1	<1	3	2	2	17	<1	1
22	6	<1	<1	1	<1	<1	2	2	2	20	2	4
23	2	<1	1	1	<1	<1	2	2	2	4	2	2
24	2	<1	<1	<1	<1	<1	3	2	2	2	1	2
25	1	<1	<1	<1	<1	<1	2	2	2	2	1	2
26	<1	<1	<1	<1	<1	<1	2	2	2	2	1	2
27	<1	<1	<1	<1	<1	<1	2	2	2	2	1	1
28	2	<1	<1	<1	<1	<1	3	1	2	1	<1	1
29	2	<1	<1	<1	<1	<1	2	1	2	1	<1	1
30	1	<1	<1	<1	<1	<1	2	2	2	1	<1	<1
31	2	<1	1	---	---	---	3	1	2	1	<1	<1
MAX	6	<1	1	5	2	2	29	16	18	20	2	4
MIN	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
FEBRUARY			MARCH			APRIL			MAY			
1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2	1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1
3	1	<1	<1	6	<1	5	<1	<1	<1	<1	<1	<1
4	1	<1	<1	34	5	12	<1	<1	<1	5	<1	<1
5	1	<1	<1	25	3	5	1	<1	<1	3	<1	<1
6	<1	<1	<1	18	4	5	2	<1	<1	2	<1	<1
7	<1	<1	<1	6	4	5	1	<1	<1	<1	<1	<1
8	<1	<1	<1	---	<1	<1	<1	<1	<1	<1	<1	<1
9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
10	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
11	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
12	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
13	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
14	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1
15	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
17	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
18	<1	<1	<1	<1	<1	<1	10	<1	<1	1	<1	<1
19	1	<1	1	<1	<1	<1	19	<1	<1	1	<1	<1
20	2	<1	1	<1	<1	<1	<1	<1	<1	1	<1	<1
21	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1
22	<1	<1	<1	2	<1	<1	7	<1	<1	2	<1	<1
23	1	<1	<1	<1	<1	<1	9	<1	<1	---	<1	<1
24	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
25	<1	<1	<1	<1	<1	<1	97	<1	1	1	<1	<1
26	<1	<1	<1	<1	<1	<1	7	<1	<1	2	<1	<1
27	<1	<1	<1	6	<1	2	5	<1	<1	1	<1	<1
28	5	<1	<1	2	<1	<1	2	<1	<1	1	<1	<1
29	---	---	---	19	<1	<1	2	<1	<1	1	<1	<1
30	---	---	---	<1	<1	<1	1	<1	<1	1	<1	<1
31	---	---	---	<1	<1	<1	---	---	---	1	<1	<1
MAX	5	<1	1	34	5	12	97	<1	1	5	<1	<1
MIN	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

WILLAMETTE RIVER BASIN

14159500 SOUTH FORK MCKENZIE RIVER NEAR RAINBOW, OR—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/- 2.5 DEGREES, FNU—
CONTINUED

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	1	<1	<1	---	1	---	<1	<1	<1	1	<1	<1
2	1	<1	<1	---	---	---	<1	<1	<1	6	<1	1
3	<1	<1	<1	---	---	---	1	<1	<1	2	<1	<1
4	<1	<1	<1	---	---	---	<1	<1	<1	2	<1	<1
5	<1	<1	<1	---	---	---	<1	<1	<1	3	<1	1
6	<1	<1	<1	---	<1	---	<1	<1	<1	6	<1	1
7	<1	<1	<1	3	<1	<1	<1	<1	<1	5	<1	2
8	<1	<1	<1	2	<1	<1	<1	<1	<1	5	<1	2
9	<1	<1	<1	2	<1	<1	<1	<1	<1	5	<1	1
10	<1	<1	<1	3	<1	1	<1	<1	<1	5	<1	2
11	<1	<1	<1	---	<1	---	1	<1	<1	5	<1	2
12	<1	<1	<1	5	<1	2	<1	<1	<1	3	<1	2
13	<1	<1	<1	8	<1	2	<1	<1	<1	2	<1	1
14	<1	<1	<1	6	<1	2	<1	<1	<1	<1	<1	<1
15	<1	<1	<1	15	1	4	<1	<1	<1	<1	<1	<1
16	<1	<1	<1	50	3	9	<1	<1	<1	1	<1	<1
17	<1	<1	<1	39	3	14	<1	<1	<1	<1	<1	<1
18	<1	<1	<1	75	7	24	<1	<1	<1	<1	<1	<1
19	<1	<1	<1	88	8	25	<1	<1	<1	<1	<1	<1
20	<1	<1	<1	88	12	33	<1	<1	<1	2	<1	<1
21	<1	<1	<1	131	5	40	<1	<1	<1	1	<1	<1
22	<1	<1	<1	63	3	19	<1	<1	<1	1	<1	<1
23	48	<1	<1	67	1	6	<1	<1	<1	<1	<1	<1
24	<1	<1	<1	30	<1	1	1	<1	<1	1	<1	<1
25	<1	<1	<1	1	<1	<1	1	<1	<1	---	<1	---
26	<1	<1	<1	2	<1	<1	2	<1	<1	---	---	---
27	<1	<1	<1	<1	<1	<1	2	<1	<1	---	---	---
28	3	<1	<1	1	<1	<1	2	<1	<1	---	---	---
29	---	<1	---	<1	<1	<1	1	<1	<1	---	---	---
30	---	1	---	<1	<1	<1	606	<1	1	---	---	---
31	---	---	---	<1	<1	<1	2	<1	<1	---	---	---
MAX	48	1	<1	131	12	40	606	<1	1	6	<1	2
MIN	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1