

**14190500 LUCKIAMUTE RIVER NEAR SUVER, OR**

Willamette Basin  
Upper Willamette Subbasin

LOCATION.--Lat 44°47'00", long 123°14'00" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.18, T.9 S., R.4 W., Polk County, OR, Hydrologic Unit 17090003, on right bank, 10 ft upstream from highway bridge at Helmick State Park, 3.0 mi northwest of Suver, 4.7 mi downstream from Little Luckiamute River and at mile 13.5.

DRAINAGE AREA.--240 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--August 1905 to September 1911, July 1940 to current year.

REVISED RECORDS.--WSP 1044: Drainage area. WSP 1094: 1945-46. WSP 1248: 1905-11.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 171.92 ft above NGVD of 1929. Aug. 18, 1905 to Oct. 31, 1911, nonrecording gage at present site at different datum. Aug. 20 to Oct. 15, 1940, nonrecording gage at present site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Some diurnal fluctuation during periods of low flow caused by millpond upstream from station. Several small diversions for irrigation upstream from station. Continuous water-quality records for period October 1963 to September 1987 have been collected at this location.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--76 years (water years 1906-11, 1941-2010), 872 ft<sup>3</sup>/s, 49.38 in/yr, 631,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,900 ft<sup>3</sup>/s Dec. 22, 1964, gage height, 34.52 ft; minimum discharge, 0.65 ft<sup>3</sup>/s Aug. 13, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,600 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jan 2	0645	*5,130	*23.76

Minimum discharge, 31 ft<sup>3</sup>/s, Oct. 9, gage height, 1.98 ft.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	36	232	686	4,440	803	1,330	2,590	854	322	208	83	60
2	37	167	598	4,990	1,060	1,130	2,150	764	478	209	84	79
3	34	132	524	3,750	1,040	1,000	2,710	742	1,170	213	78	63
4	34	112	468	2,350	1,040	898	2,550	745	1,420	199	76	53
5	35	100	422	2,210	1,080	803	2,110	675	1,520	190	75	51
6	34	128	387	3,050	998	730	2,420	620	1,140	183	74	50
7	34	271	354	3,010	957	672	2,370	577	964	173	71	48
8	33	631	e300	2,300	871	623	2,030	538	802	162	72	51
9	33	805	e290	2,380	805	571	1,720	512	720	153	72	55
10	33	726	e285	1,970	750	554	1,450	484	802	147	70	52
11	33	618	e280	1,620	878	543	1,310	463	704	143	72	50
12	32	668	e275	1,700	1,230	1,430	1,280	430	631	138	71	49
13	33	762	e270	2,140	1,480	1,870	1,210	408	567	135	65	49
14	38	680	e270	2,500	1,360	1,420	1,070	386	511	131	63	45
15	88	535	936	2,150	1,220	1,160	1,020	363	472	125	58	45
16	73	463	3,080	3,000	1,150	992	926	346	443	120	57	53
17	59	699	2,800	2,850	1,050	877	838	332	418	118	56	76
18	71	1,090	1,860	3,020	946	786	773	324	399	116	55	68
19	95	972	1,410	2,660	860	714	717	317	373	116	54	99
20	73	985	1,170	2,050	783	654	685	353	357	114	54	139
21	61	1,130	1,530	1,660	716	612	642	389	341	110	53	173
22	68	1,610	1,840	1,360	658	618	586	431	322	104	52	104
23	76	1,980	1,490	1,150	634	578	546	384	303	98	53	85
24	86	1,380	1,230	1,070	1,050	532	517	356	284	97	50	77
25	100	1,030	1,060	1,640	1,120	555	497	340	268	96	48	75
26	78	855	921	1,410	1,360	1,350	468	381	257	91	46	70
27	130	1,400	815	1,190	1,970	1,500	885	391	248	87	45	75
28	165	1,180	731	1,050	1,640	1,200	1,080	361	235	84	44	78
29	131	942	662	952	---	1,920	1,070	338	225	86	46	70
30	134	795	823	875	---	3,630	958	322	218	86	49	66
31	149	---	1,660	835	---	3,660	---	322	---	82	60	---
<b>Total</b>	2,116	23,078	29,427	67,332	29,509	34,912	39,178	14,248	16,914	4,114	1,906	2,108
<b>Mean</b>	68.3	769	949	2,172	1,054	1,126	1,306	460	564	133	61.5	70.3
<b>Max</b>	165	1,980	3,080	4,990	1,970	3,660	2,710	854	1,520	213	84	173
<b>Min</b>	32	100	270	835	634	532	468	317	218	82	44	45
<b>Ac-ft</b>	4,200	45,780	58,370	133,600	58,530	69,250	77,710	28,260	33,550	8,160	3,780	4,180
<b>Cfsm</b>	0.28	3.21	3.96	9.05	4.39	4.69	5.44	1.92	2.35	0.55	0.26	0.29
<b>In.</b>	0.33	3.58	4.56	10.44	4.57	5.41	6.07	2.21	2.62	0.64	0.30	0.33

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	170	1,041	2,056	2,247	1,973	1,390	841	422	207	80.9	42.8	51.8
<b>Max</b>	1,241	4,574	5,112	4,727	4,769	3,002	1,847	1,026	564	184	85.0	190
<b>(WY)</b>	(1948)	(1910)	(1965)	(1956)	(1949)	(1961)	(1955)	(1963)	(2010)	(1906)	(1906)	(1959)
<b>Min</b>	20.2	49.4	106	151	253	391	312	190	74.3	30.0	9.45	17.0
<b>(WY)</b>	(1953)	(1994)	(1977)	(1977)	(1977)	(1941)	(1977)	(1966)	(1992)	(1967)	(1967)	(1967)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1906 - 2010	
<b>Annual total</b>	230,447		264,842			
<b>Annual mean</b>	631		726		872	
<b>Highest annual mean</b>					1,464	1974
<b>Lowest annual mean</b>					230	1977
<b>Highest daily mean</b>	9,020	Jan 2	4,990	Jan 2	25,200	Dec 23, 1964
<b>Lowest daily mean</b>	24	Sep 4	32	Oct 12	2.6	Aug 20, 1967
<b>Annual seven-day minimum</b>	27	Sep 23	33	Oct 7	4.3	Aug 17, 1967
<b>Annual runoff (ac-ft)</b>	457,100		525,300		631,900	
<b>Annual runoff (cfsm)</b>	2.63		3.02		3.63	
<b>Annual runoff (inches)</b>	35.72		41.05		49.38	
<b>10 percent exceeds</b>	1,360		1,770		2,290	
<b>50 percent exceeds</b>	354		484		348	
<b>90 percent exceeds</b>	34		54		36	

