



Water-Data Report 2007

**14194150 SOUTH YAMHILL RIVER AT MCMINNVILLE, OR**

Willamette Basin  
Yamhill Subbasin

LOCATION.--Lat 45°12'21", long 123°10'53" referenced to North American Datum of 1927, in SE ¼ sec.21, T.4 S., R.4 W., Yamhill County, OR, Hydrologic Unit 17090008, on left bank, 0.3 mi downstream from Cozine Creek, at Highway 18 McMinnville Spur bridge, in McMinnville and at mile 5.6.

DRAINAGE AREA.--528 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 50 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Many small diversions for irrigation upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--13 years (water years 1995-2007), 1,801 ft<sup>3</sup>/s, 46.33 in/yr, 1,304,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,100 ft<sup>3</sup>/s Feb. 9, 1996, gage height, 59.33 ft; minimum discharge, 0.58 ft<sup>3</sup>/s Sept. 4, 2003.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 13,000 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 16	0945	*16,700	*47.72
No other peak greater than base discharge			

Minimum discharge, 5.1 ft<sup>3</sup>/s, Sept. 14, gage height, 9.61 ft.

## 14194150 SOUTH YAMHILL RIVER AT MCMINNVILLE, OR—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	25	43	3,670	2,780	892	6,280	e900	620	182	127	39	20
2	25	78	3,130	2,420	845	5,410	e900	631	174	109	34	21
3	24	188	2,690	4,620	809	5,470	e850	687	170	95	29	23
4	23	1,090	2,320	7,630	773	5,280	e800	730	165	88	27	23
5	24	2,120	2,050	7,490	746	4,730	e750	657	158	85	29	19
6	23	2,620	1,830	7,300	721	4,090	e700	598	160	76	39	20
7	24	5,780	1,650	8,090	694	3,520	e750	564	162	65	32	19
8	19	8,500	1,490	7,830	698	3,170	e750	529	156	61	30	20
9	23	7,140	1,390	6,950	700	2,830	e800	486	158	61	35	21
10	30	4,060	1,410	5,440	716	2,840	e950	446	166	51	35	18
11	29	5,000	1,740	4,370	740	2,790	e900	414	208	49	36	17
12	28	5,670	3,660	3,580	e800	2,940	e1,200	390	196	49	38	14
13	28	5,580	4,850	3,000	e850	2,820	e1,200	371	166	48	36	11
14	27	6,220	7,140	2,560	e1,200	2,410	e1,100	355	146	46	32	6.9
15	39	4,860	11,600	2,210	e2,800	2,110	e1,100	337	144	48	33	8.9
16	60	4,830	16,100	1,960	e7,500	1,860	e1,000	316	137	50	34	17
17	64	4,610	12,200	1,810	e6,500	1,670	970	301	144	48	30	30
18	117	3,370	7,600	1,670	e4,600	1,520	1,090	287	141	63	28	28
19	89	2,620	4,300	1,610	e3,600	1,400	1,100	277	130	77	38	28
20	64	2,650	3,140	1,640	e6,000	1,360	1,040	280	122	97	43	28
21	80	2,400	3,100	1,650	e5,500	1,450	967	302	113	90	54	27
22	89	3,610	3,310	1,530	e3,600	1,280	1,070	328	104	96	55	24
23	63	5,590	3,360	1,450	e3,200	1,170	1,170	284	102	111	59	22
24	50	6,920	4,070	1,380	e5,000	1,110	1,100	259	108	93	51	25
25	45	7,260	5,850	1,310	e6,500	e1,200	1,030	249	113	78	42	22
26	43	6,270	7,610	1,240	e8,500	e1,400	946	236	113	64	38	18
27	43	6,450	8,540	1,170	e8,000	e1,300	868	231	102	56	35	19
28	52	5,910	8,060	1,100	e7,500	e1,200	803	224	99	49	28	35
29	52	4,740	6,120	1,040	---	e1,100	741	216	104	50	25	30
30	46	3,810	4,360	985	---	e1,000	673	207	129	49	23	50
31	43	---	3,400	940	---	e950	---	196	---	41	20	---
<b>Total</b>	1,391	129,989	151,740	98,755	89,984	77,660	28,218	12,008	4,272	2,170	1,107	664.8
<b>Mean</b>	44.9	4,333	4,895	3,186	3,214	2,505	941	387	142	70.0	35.7	22.2
<b>Max</b>	117	8,500	16,100	8,090	8,500	6,280	1,200	730	208	127	59	50
<b>Min</b>	19	43	1,390	940	694	950	673	196	99	41	20	6.9
<b>Ac-ft</b>	2,760	257,800	301,000	195,900	178,500	154,000	55,970	23,820	8,470	4,300	2,200	1,320
<b>Cfsm</b>	0.08	8.21	9.27	6.03	6.09	4.74	1.78	0.73	0.27	0.13	0.07	0.04
<b>In.</b>	0.10	9.16	10.69	6.96	6.34	5.47	1.99	0.85	0.30	0.15	0.08	0.05

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	293	2,223	4,816	4,803	4,043	2,684	1,557	746	335	99.6	42.7	67.7
<b>Max</b>	1,491	4,333	9,904	8,926	9,541	4,573	3,832	1,669	583	163	76.6	281
<b>(WY)</b>	(1998)	(2007)	(1997)	(2006)	(1996)	(2003)	(1996)	(1996)	(2005)	(1997)	(2004)	(1997)
<b>Min</b>	44.9	222	1,250	784	769	854	660	387	135	50.4	19.9	22.2
<b>(WY)</b>	(2007)	(2001)	(2001)	(2001)	(2005)	(2001)	(2000)	(2007)	(2003)	(2003)	(2006)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1995 - 2007	
<b>Annual total</b>	789,032.1		597,958.8			
<b>Annual mean</b>	2,162		1,638		1,801	
<b>Highest annual mean</b>					2,796	1996
<b>Lowest annual mean</b>					515	2001
<b>Highest daily mean</b>	19,800	Jan 12	16,100	Dec 16	40,300	Feb 9, 1996
<b>Lowest daily mean</b>	7.3	Aug 25	6.9	Sep 14	1.4	Sep 4, 2003
<b>Annual seven-day minimum</b>	12	Sep 5	13	Sep 10	3.9	Sep 1, 2003
<b>Annual runoff (ac-ft)</b>	1,565,000		1,186,000		1,304,000	
<b>Annual runoff (cfsm)</b>	4.09		3.10		3.41	
<b>Annual runoff (inches)</b>	55.59		42.13		46.33	
<b>10 percent exceeds</b>	7,070		5,530		5,280	
<b>50 percent exceeds</b>	545		620		620	
<b>90 percent exceeds</b>	22		27		36	

