

Water-Data Report 2007

14155500 ROW RIVER NEAR COTTAGE GROVE, OR

Willamette Basin
Coast Fork Willamette Subbasin

LOCATION.--Lat 43°47'35", long 122°59'25" referenced to North American Datum of 1927, in NE ¼ sec.36, T.20 S., R.3 W., Lane County, OR, Hydrologic Unit 17090002, on right bank, 1.7 mi upstream from Mosby Creek, 2.1 mi downstream from Dorena Dam, 3.5 mi east of Cottage Grove and at mile 5.5.

DRAINAGE AREA.--270 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1939 to current year. Prior to October 1947, published as "near Dorena."

GAGE.--Water-stage recorder. Datum of gage is 685.24 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Jan. 5 to Oct. 12, 1939, nonrecording gage at site 180 ft upstream at datum 1.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since October 1949 by Dorena Lake (active capacity, 77,580 acre-ft). No diversion upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--68 years (water years 1940-2007), 728 ft³/s, 36.62 in/yr, 527,400 acre-ft/yr, adjusted for storage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,400 ft³/s Dec. 28, 1945, gage height, 18.20 ft; minimum discharge, 0.20 ft³/s Sept. 25 to Oct. 7, 1958.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,080 ft³/s Dec. 30, gage height, 7.34 ft; minimum discharge, 70 ft³/s Nov. 4.

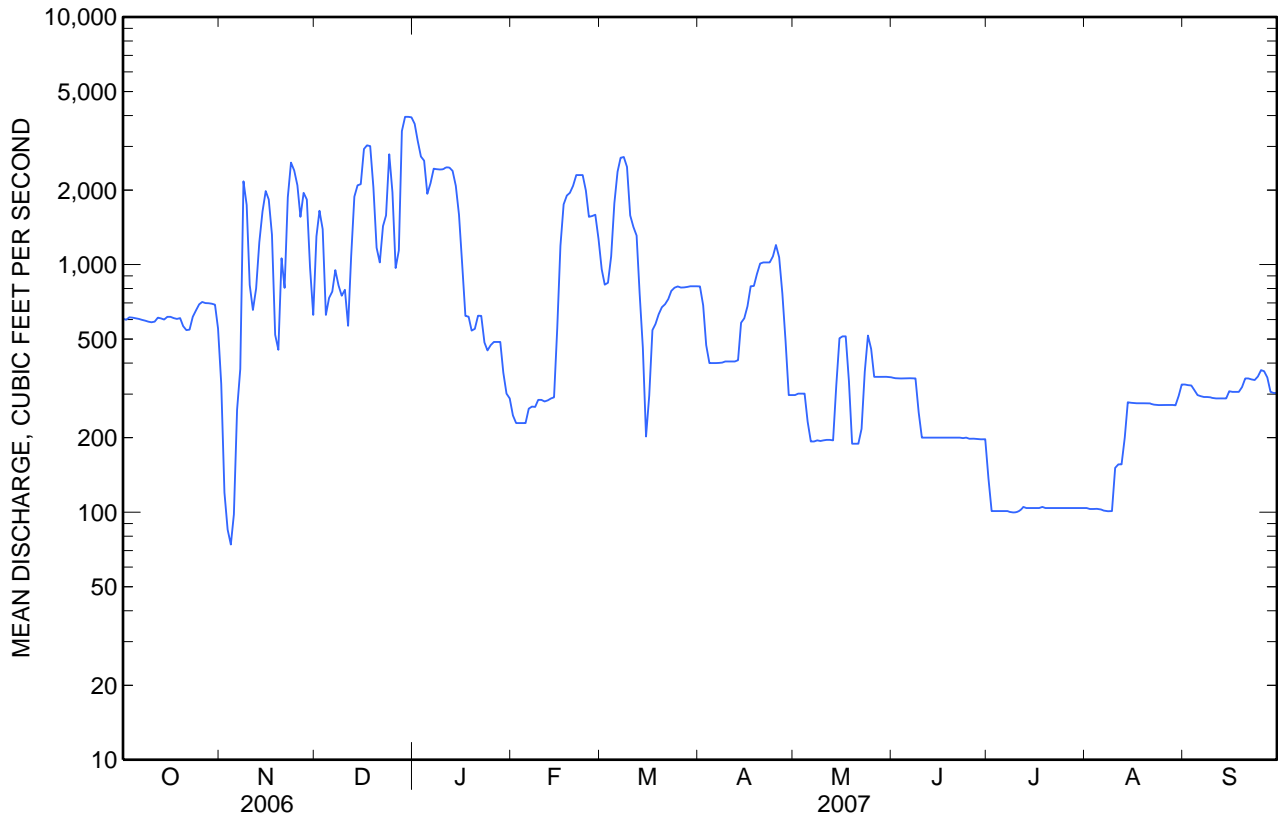
14155500 ROW RIVER NEAR COTTAGE GROVE, OR—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	604	330	1,300	3,700	246	957	816	297	349	137	104	328
2	599	120	1,650	3,160	229	830	685	301	347	101	103	326
3	612	85	1,390	2,730	229	844	473	301	347	101	103	325
4	611	74	626	2,630	229	1,080	400	301	347	101	103	311
5	607	98	733	1,930	229	1,770	400	232	348	101	103	297
6	603	259	778	2,130	262	2,370	400	193	347	101	102	294
7	598	379	950	2,440	267	2,700	401	193	347	101	101	292
8	594	2,170	825	2,430	266	2,720	402	195	347	100	101	292
9	588	1,740	749	2,420	284	2,480	406	194	253	100	101	291
10	585	827	791	2,430	284	1,580	406	195	200	100	151	289
11	588	656	566	2,470	280	1,420	406	196	200	102	156	288
12	611	801	1,080	2,460	283	1,310	406	196	200	105	156	288
13	606	1,230	1,880	2,390	288	764	411	195	200	104	200	288
14	600	1,640	2,090	2,080	291	462	582	325	200	104	278	288
15	615	1,980	2,110	1,590	553	202	607	504	200	104	277	308
16	615	1,830	2,930	1,000	1,190	296	679	513	200	104	276	306
17	608	1,320	3,030	621	1,750	544	817	513	200	104	275	306
18	603	521	3,010	616	1,900	575	820	338	200	105	275	306
19	608	453	2,050	541	1,950	630	915	189	200	104	276	320
20	564	1,060	1,170	550	2,080	673	1,010	189	200	104	275	347
21	544	805	1,020	622	2,300	692	1,020	189	200	104	275	347
22	546	1,870	1,430	621	2,300	726	1,020	217	200	104	272	344
23	615	2,580	1,580	485	2,300	783	1,020	369	199	104	271	342
24	653	2,400	2,790	450	1,990	806	1,080	517	200	104	271	353
25	691	2,090	1,960	473	1,560	816	1,200	456	198	104	271	375
26	706	1,560	969	487	1,570	808	1,070	352	198	104	271	371
27	699	1,950	1,140	487	1,590	809	765	352	198	104	271	350
28	698	1,830	3,460	487	1,270	812	491	352	197	104	271	306
29	695	974	3,950	366	---	817	297	352	197	104	270	303
30	689	626	3,950	301	---	817	297	352	197	104	295	303
31	552	---	3,930	288	---	817	---	351	---	104	328	---
Total	19,107	34,258	55,887	45,385	27,970	32,910	19,702	9,419	7,216	3,227	6,582	9,484
Mean	616	1,142	1,803	1,464	999	1,062	657	304	241	104	212	316
Max	706	2,580	3,950	3,700	2,300	2,720	1,200	517	349	137	328	375
Min	544	74	566	288	229	202	297	189	197	100	101	288
Ac-ft	37,900	67,950	110,900	90,020	55,480	65,280	39,080	18,680	14,310	6,400	13,060	18,810
Mean adjusted for change in contents, in Dorena Lake	62.5	1,146	2,030	1,282	1,232	1,433	885	306	147	48.6	38.1	45.7
CFSM adjusted for change in contents, in Dorena Lake	0.23	4.25	7.52	4.75	4.56	5.31	3.28	1.14	0.54	0.18	0.14	0.17
In. adjusted for change in contents, in Dorena Lake	0.27	4.74	8.67	5.48	4.75	6.12	3.66	1.31	0.61	0.21	0.16	0.19
Ac-ft adjusted for change in contents, in Dorena Lake	3,840	68,220	124,800	78,840	68,440	88,120	52,640	18,840	8,760	2,990	2,340	2,720

14155500 ROW RIVER NEAR COTTAGE GROVE, OR—Continued

	Calendar Year 2006	Water Year 2007
Total	345,078	271,147
Mean	945	743
Max	6,010	3,950
Min	74	74
Ac-ft	684,500	537,800
Mean adjusted for change in contents, in Dorena Lake	418	350
CFSM adjusted for change in contents, in Dorena Lake	1.55	1.30
In. adjusted for change in contents, in Dorena Lake	21.03	17.62
Ac-ft adjusted for change in contents, in Dorena Lake	302,700	253,700



14155500 ROW RIVER NEAR COTTAGE GROVE, OR—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: August 2001 to current year.

INSTRUMENTATION.--Temperature recorder.

REMARKS.--

WATER TEMPERATURE: Records poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 23.2°C Sept. 9, 2007; minimum, 2.5°C Jan. 16, 17, 2007.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 23.2°C Sept. 9; minimum, 2.5°C Jan. 16, 17.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	18.9	18.1	18.4	12.0	11.1	11.4	5.8	5.4	5.6	6.9	6.5	6.7
2	18.9	18.0	18.3	11.7	10.6	11.2	5.9	5.5	5.7	6.7	6.4	6.6
3	18.5	18.0	18.2	11.7	11.0	11.3	5.7	5.3	5.6	7.6	6.4	6.8
4	18.7	17.9	18.1	11.9	10.9	11.3	5.4	5.0	5.2	7.6	7.3	7.5
5	18.6	17.7	18.0	11.7	10.9	11.3	5.4	5.0	5.2	7.4	6.9	7.2
6	18.2	17.6	17.8	11.4	11.0	11.2	5.5	5.0	5.2	7.0	6.7	6.8
7	18.2	17.4	17.7	11.7	11.0	11.4	5.5	5.0	5.2	7.0	6.7	6.9
8	18.0	17.2	17.5	12.2	11.3	11.8	5.5	5.2	5.3	7.2	7.0	7.1
9	18.0	17.1	17.5	11.3	10.2	10.8	5.9	5.3	5.6	7.4	6.9	7.2
10	17.8	16.8	17.2	10.2	9.4	9.8	7.0	5.9	6.6	7.0	6.7	6.9
11	17.5	16.6	17.0	9.4	8.6	9.0	7.3	6.9	7.1	6.8	6.4	6.7
12	17.4	16.5	16.8	8.6	8.0	8.3	7.5	6.9	7.2	6.5	5.3	6.0
13	17.3	16.4	16.7	8.0	7.7	7.9	8.3	7.4	7.7	5.7	5.0	5.5
14	17.1	16.3	16.6	8.6	7.7	8.1	9.1	8.2	8.6	5.1	4.5	4.8
15	16.6	16.3	16.5	8.6	8.0	8.2	9.0	8.3	8.7	4.6	3.6	4.3
16	16.5	16.2	16.3	8.6	8.0	8.3	8.3	7.3	7.8	3.6	2.5	2.9
17	16.8	16.0	16.2	8.7	8.1	8.4	7.4	6.4	6.9	3.3	2.5	2.9
18	16.1	15.5	15.8	8.3	7.7	8.0	6.7	5.8	6.4	3.4	2.9	3.2
19	15.8	15.5	15.6	8.0	7.7	7.9	6.1	5.0	5.4	3.6	3.1	3.4
20	15.7	15.1	15.4	8.6	7.8	8.2	5.2	4.2	4.8	4.1	3.5	3.8
21	15.8	15.1	15.4	8.6	8.3	8.5	5.4	4.6	5.0	4.5	3.9	4.1
22	15.9	15.0	15.3	8.4	8.0	8.2	5.8	5.3	5.6	4.2	3.6	3.9
23	15.6	15.0	15.2	8.1	7.8	8.0	6.0	5.5	5.7	4.5	3.7	4.0
24	15.2	14.8	15.0	8.2	7.7	7.9	7.1	5.7	6.4	4.6	3.8	4.1
25	15.2	14.3	14.7	8.2	7.9	8.1	7.7	7.1	7.4	4.6	4.0	4.2
26	14.5	13.9	14.2	8.0	7.6	7.7	8.3	7.7	8.0	4.4	4.0	4.2
27	14.2	13.6	13.9	7.6	7.0	7.3	8.3	8.0	8.1	4.6	4.0	4.2
28	13.9	13.3	13.6	7.1	6.2	6.7	8.1	7.8	8.0	4.7	4.2	4.4
29	13.5	12.9	13.2	6.2	5.6	5.8	7.8	7.6	7.7	4.9	4.0	4.3
30	12.9	12.3	12.7	5.7	5.4	5.6	7.7	6.9	7.3	4.7	3.8	4.1
31	12.3	11.6	11.9	---	---	---	7.0	6.6	6.8	4.2	3.3	3.8
Month	18.9	11.6	16.0	12.2	5.4	8.9	9.1	4.2	6.5	7.6	2.5	5.1

14155500 ROW RIVER NEAR COTTAGE GROVE, OR—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	4.3	3.0	3.5	6.6	6.4	6.5	8.7	8.0	8.3	9.9	9.0	9.4
2	4.3	3.2	3.6	6.6	6.4	6.5	9.3	7.9	8.5	10.1	8.9	9.5
3	4.1	3.4	3.7	7.1	6.1	6.5	9.0	7.8	8.3	10.4	8.9	9.4
4	4.7	3.2	3.7	7.3	6.1	6.7	9.6	8.0	8.5	10.7	9.0	9.5
5	4.9	3.6	4.1	7.4	6.5	6.9	10.0	7.9	8.6	11.1	8.9	9.7
6	5.0	4.0	4.3	7.2	6.9	7.1	10.0	8.1	8.7	11.7	8.9	10.1
7	5.5	4.2	4.9	7.5	7.0	7.2	9.5	8.2	8.7	13.2	9.1	10.6
8	5.9	5.2	5.5	7.5	7.0	7.3	9.7	8.2	8.7	13.2	9.1	10.6
9	7.0	5.7	6.2	8.0	7.2	7.6	9.7	8.4	8.8	12.3	9.3	10.2
10	6.3	5.7	5.9	8.0	7.0	7.5	9.8	8.3	8.8	12.6	8.9	10.4
11	6.6	5.5	5.9	7.7	7.0	7.3	9.5	8.3	8.7	11.5	9.0	10.1
12	7.5	5.7	6.6	7.9	7.2	7.5	9.6	8.3	8.8	9.7	9.3	9.5
13	7.2	6.1	6.4	7.8	7.0	7.4	10.2	8.3	9.0	12.5	9.3	10.3
14	7.0	5.8	6.5	8.5	6.8	7.4	9.2	8.7	8.9	12.0	9.1	10.2
15	6.8	6.5	6.6	9.7	6.7	7.7	9.6	8.7	9.0	11.3	9.6	10.3
16	7.8	6.6	7.5	9.4	6.6	7.5	9.2	8.7	8.9	11.3	9.6	10.3
17	7.9	7.3	7.7	8.7	7.2	7.8	9.6	8.9	9.1	11.4	9.8	10.4
18	7.9	7.1	7.5	8.7	7.4	8.0	9.3	8.7	8.9	12.1	9.7	10.7
19	7.9	7.7	7.8	8.5	7.5	7.9	9.7	8.7	9.0	12.1	9.8	10.5
20	7.7	7.5	7.6	8.5	7.6	8.1	9.6	8.5	9.0	10.8	9.7	10.1
21	7.7	7.5	7.6	8.9	7.7	8.2	8.8	8.5	8.7	12.0	9.7	10.5
22	7.6	7.1	7.4	8.9	7.9	8.3	9.5	8.5	8.9	13.2	9.5	10.6
23	7.2	6.9	7.0	9.2	7.9	8.5	9.5	8.5	8.9	12.1	9.6	10.6
24	7.1	6.9	7.0	8.9	8.1	8.4	9.7	8.5	9.0	11.8	10.2	10.7
25	7.0	6.6	6.8	9.2	8.3	8.7	9.5	8.8	9.2	11.5	10.1	10.6
26	6.9	6.6	6.7	8.7	8.0	8.4	9.7	8.8	9.1	12.3	10.0	10.9
27	6.9	6.5	6.7	8.7	8.2	8.5	10.0	9.0	9.4	10.8	10.2	10.5
28	6.7	6.3	6.5	9.2	8.1	8.5	10.5	9.0	9.4	12.3	9.8	10.8
29	---	---	---	9.1	8.0	8.4	11.1	8.8	9.6	12.9	10.0	11.1
30	---	---	---	8.8	8.0	8.3	10.8	8.7	9.6	12.8	10.1	11.2
31	---	---	---	8.6	8.0	8.3	---	---	---	13.0	10.2	11.3
Month	7.9	3.0	6.1	9.7	6.1	7.7	11.1	7.8	8.9	13.2	8.9	10.3

14155500 ROW RIVER NEAR COTTAGE GROVE, OR—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	13.0	10.3	11.4	17.4	12.2	14.2	19.1	13.7	15.9	21.2	18.8	19.8
2	13.0	10.4	11.4	17.8	12.0	14.4	19.2	14.1	16.1	21.5	19.4	20.2
3	13.1	10.5	11.5	18.0	12.2	14.6	18.8	14.0	15.8	21.9	19.9	20.7
4	12.3	10.6	11.3	18.5	12.4	14.9	19.0	13.8	15.9	21.8	20.5	20.9
5	11.8	10.8	11.2	18.4	12.7	15.1	18.8	13.9	15.8	22.2	20.5	21.0
6	12.2	10.7	11.3	18.1	12.6	14.9	16.4	14.4	15.2	22.6	20.6	21.2
7	12.2	10.9	11.4	18.3	12.7	15.0	18.1	14.5	15.8	22.5	20.5	21.2
8	13.4	10.7	11.7	18.4	12.6	15.0	19.2	14.3	16.2	23.0	20.7	21.5
9	11.8	10.9	11.4	18.6	12.7	15.2	18.4	14.4	15.9	23.2	20.6	21.7
10	12.8	11.1	11.7	18.8	12.9	15.4	18.3	14.2	15.7	23.1	20.6	21.6
11	13.8	11.0	12.1	17.2	13.6	15.0	18.4	14.2	15.8	23.1	20.8	21.6
12	14.7	10.6	12.2	17.9	13.3	15.0	18.4	14.2	15.8	22.7	20.7	21.4
13	14.8	11.2	12.5	17.8	13.4	15.0	18.2	14.4	15.8	21.4	20.8	21.1
14	14.8	11.2	12.4	17.9	13.4	15.1	17.9	15.0	16.1	21.6	20.8	21.1
15	15.0	11.1	12.6	18.0	13.1	15.0	18.0	15.2	16.2	22.1	20.6	21.1
16	12.8	11.3	11.9	16.6	13.7	14.7	17.4	15.4	16.1	21.0	20.5	20.7
17	14.9	11.0	12.5	15.3	13.5	14.2	18.1	15.3	16.3	21.4	20.1	20.6
18	14.9	11.2	12.5	16.3	13.6	14.5	17.8	15.7	16.4	21.0	20.0	20.3
19	15.1	11.1	12.7	17.5	13.5	15.2	17.2	15.9	16.4	20.7	19.6	20.0
20	15.5	11.5	13.0	15.6	13.5	14.4	16.8	16.2	16.5	20.7	19.3	19.8
21	15.3	11.7	12.9	17.0	13.8	15.0	18.4	16.4	17.1	20.4	18.8	19.4
22	14.2	11.7	12.6	18.1	13.6	15.5	18.3	16.4	17.0	20.1	18.7	19.2
23	14.1	11.4	12.6	17.1	13.8	15.1	19.0	16.4	17.3	19.6	18.4	18.9
24	14.0	11.4	12.5	18.5	14.0	15.6	19.4	16.6	17.6	19.7	18.1	18.7
25	15.5	11.4	13.0	18.7	13.3	15.5	19.5	16.7	17.8	19.3	17.9	18.4
26	15.6	11.6	13.2	17.9	13.7	15.2	18.8	17.2	17.8	19.2	17.8	18.3
27	15.1	11.7	13.2	18.8	13.7	15.6	19.5	17.0	18.0	19.2	17.7	18.2
28	14.5	12.1	13.0	18.7	13.9	15.6	19.9	17.2	18.3	18.6	17.5	17.9
29	13.7	12.3	12.9	16.3	14.0	15.0	20.4	17.6	18.7	18.6	17.5	17.9
30	15.9	12.2	13.6	18.7	13.8	15.7	20.5	18.1	19.1	17.7	17.4	17.6
31	---	---	---	19.0	13.4	15.7	20.8	18.6	19.4	---	---	---
Month	15.9	10.3	12.3	19.0	12.0	15.0	20.8	13.7	16.7	23.2	17.4	20.1

	Max	Min	Mean
Year	23.2	2.5	11.2