



Water-Data Report 2007

14205400 EAST FORK DAIRY CREEK NEAR MEACHAM CORNER, OR

Willamette Basin
Tualatin Subbasin

LOCATION.--Lat 45°40'51", long 123°04'12" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.4, T.2 N., R.3 W., Washington County, OR, Hydrologic Unit 17090010, on right bank, on private drive, 0.9 mi downstream from Murtaugh Creek and at mile 12.3.

DRAINAGE AREA.--33.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 2002 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 290 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--5 years (water years 2003-07), 76.9 ft³/s, 30.91 in/yr, 55,710 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,580 ft³/s Jan. 31, 2003, gage height, 7.88 ft; minimum discharge, 6.9 ft³/s Sept. 8-11, 26-28, 2007.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 23	1700	441	6.71
Nov 26	1600	426	6.67
Dec 14	2030	*802	*7.56
Jan 7	1900	463	6.74

Minimum discharge, 6.9 ft³/s, on several days,.

14205400 EAST FORK DAIRY CREEK NEAR MEACHAM CORNER, 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	8.7	10	157	166	82	234	80	53	27	20	12	8.0
2	8.9	25	142	190	80	243	77	55	26	19	12	7.9
3	8.9	49	131	278	79	310	75	55	25	18	12	8.0
4	8.9	53	123	287	78	326	73	55	26	18	12	8.3
5	9.0	51	117	264	76	296	71	51	27	17	12	8.1
6	9.4	230	111	384	75	258	70	49	26	17	12	8.0
7	9.8	239	107	410	74	235	77	47	25	16	12	7.5
8	10	135	104	410	74	208	73	46	24	16	12	7.4
9	9.8	92	106	358	76	188	77	45	26	15	11	7.2
10	9.0	115	104	299	74	175	75	44	26	15	11	7.3
11	8.5	158	133	248	77	169	73	43	25	15	10	7.4
12	8.6	164	169	214	77	158	73	41	24	14	11	7.6
13	8.6	229	278	191	74	148	71	41	23	14	11	7.9
14	8.6	164	447	173	75	142	71	40	22	14	10	8.8
15	11	144	606	158	90	133	68	39	24	14	9.9	9.2
16	17	146	413	148	100	126	68	38	22	14	10	8.1
17	11	123	301	138	103	119	70	36	22	17	10	8.6
18	9.8	107	232	128	106	113	68	36	22	17	9.6	8.1
19	14	106	201	123	105	109	66	36	21	16	12	7.9
20	12	96	179	118	179	108	65	38	20	17	13	7.8
21	10	129	180	111	190	99	67	38	20	19	12	8.0
22	9.7	214	157	108	176	95	68	35	20	18	11	7.7
23	9.5	353	190	104	157	92	63	33	20	16	9.9	7.8
24	10	370	211	101	199	94	62	33	21	16	9.3	7.8
25	10	273	274	98	280	106	60	32	20	15	9.3	7.7
26	9.8	338	308	95	321	95	59	31	19	14	9.3	7.5
27	9.8	350	315	93	301	93	58	30	19	14	9.0	7.1
28	9.7	251	274	90	268	88	56	30	22	14	8.3	10
29	10	200	238	88	---	86	54	29	25	13	8.0	8.3
30	10	182	205	87	---	84	53	28	21	13	7.8	15
31	10	---	181	84	---	84	---	27	---	12	7.7	---
Total	310.0	5,096	6,694	5,744	3,646	4,814	2,041	1,234	690	487	326.1	246.0
Mean	10.0	170	216	185	130	155	68.0	39.8	23.0	15.7	10.5	8.20
Max	17	370	606	410	321	326	80	55	27	20	13	15
Min	8.5	10	104	84	74	84	53	27	19	12	7.7	7.1
Ac-ft	615	10,110	13,280	11,390	7,230	9,550	4,050	2,450	1,370	966	647	488
Cfsm	0.30	5.03	6.39	5.48	3.85	4.59	2.01	1.18	0.68	0.46	0.31	0.24
In.	0.34	5.61	7.37	6.32	4.01	5.30	2.25	1.36	0.76	0.54	0.36	0.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	12.6	55.4	122	223	162	136	89.1	55.3	31.1	17.7	11.8	10.4
Max	17.5	170	216	473	228	216	125	93.8	42.4	22.3	12.7	12.9
(WY)	(2005)	(2007)	(2007)	(2006)	(2006)	(2003)	(2003)	(2005)	(2005)	(2005)	(2003)	(2004)
Min	8.92	13.5	65.4	83.8	45.9	85.2	66.6	37.5	23.0	13.9	10.5	8.20
(WY)	(2003)	(2003)	(2003)	(2005)	(2005)	(2005)	(2004)	(2004)	(2007)	(2004)	(2007)	(2007)

14205400 EAST FORK DAIRY CREEK NEAR MEACHAM CORNER, OR—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 2003 - 2007	
Annual total	42,854.6		31,328.1			
Annual mean	117		85.8		76.9	
Highest annual mean					106	2006
Lowest annual mean					51.0	2005
Highest daily mean	1,070	Jan 10	606	Dec 15	1,140	Jan 31, 2003
Lowest daily mean	8.5	Sep 29	7.1	Sep 27	7.1	Sep 27, 2007
Annual seven-day minimum	8.7	Sep 25	7.5	Sep 7	7.5	Sep 7, 2007
Annual runoff (ac-ft)	85,000		62,140		55,710	
Annual runoff (cfsm)	3.47		2.54		2.28	
Annual runoff (inches)	47.17		34.48		30.91	
10 percent exceeds	342		234		188	
50 percent exceeds	51		51		36	
90 percent exceeds	9.8		8.9		10	

