

Water-Data Report 2011

14354200 BEAR CREEK BELOW ASHLAND CREEK, AT ASHLAND, OR

Southern Oregon Coastal Basin
Middle Rogue Subbasin

LOCATION.--Lat 42°12'58", long 122°43'16" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.32, T.38 S., R.1 E., Jackson County, OR, Hydrologic Unit 17100308, on left bank, 0.1 mi downstream from Ashland Creek and at mile 21.0.

DRAINAGE AREA.--168 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1990 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,686.64 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records fair except those for Jan. 15 to July 13, which are poor. Flow regulated since 1924 by Emigrant Lake (active capacity, 39,000 acre-ft). Water is diverted into basin from Klamath River basin. Many diversions for irrigation and municipal use upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--21 years (water years 1991-2011), 86.4 ft³/s, 62,590 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,000 ft³/s Jan. 1, 1997, gage height 11.00 ft; minimum discharge, 0.33 ft³/s Oct. 18, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,000 ft³/s June 1, gage height, 3.82 ft; minimum discharge, 15 ft³/s Oct. 20-22.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	27	24	28	88	60	67	322	260	685	121	45	52
2	27	24	65	81	58	75	316	244	745	115	45	48
3	27	24	41	68	58	80	279	241	532	108	44	41
4	28	24	33	47	58	75	256	242	437	102	43	41
5	28	23	35	40	58	109	393	253	410	97	41	41
6	29	23	49	39	60	242	348	269	380	90	46	39
7	28	29	46	40	59	259	391	280	346	87	47	40
8	27	27	50	44	58	181	408	279	308	81	46	39
9	27	28	52	42	57	170	391	281	271	71	42	40
10	26	29	60	37	56	206	382	281	274	69	43	46
11	26	27	65	35	51	232	348	278	256	65	44	46
12	26	25	63	34	46	277	275	282	245	61	45	45
13	22	23	66	151	43	289	279	278	233	59	47	42
14	24	24	124	132	42	261	279	281	201	54	47	45
15	20	24	81	109	80	280	273	300	186	49	45	47
16	18	24	61	332	81	428	294	293	173	45	46	47
17	19	24	54	241	67	484	431	305	166	48	47	45
18	18	28	71	146	63	489	678	331	168	54	53	44
19	17	25	69	128	60	410	664	330	168	60	52	41
20	17	24	63	113	59	394	595	323	156	52	53	36
21	16	27	53	107	57	363	589	319	142	46	47	37
22	17	25	55	95	56	284	542	315	137	41	46	37
23	18	35	49	86	54	251	501	311	134	36	44	36
24	55	26	45	79	58	242	473	287	129	33	45	36
25	36	24	46	73	59	238	450	347	124	29	49	36
26	25	24	57	69	54	251	390	372	117	35	49	35
27	21	33	48	66	60	247	344	358	117	43	51	33
28	25	28	78	66	63	224	316	346	158	42	50	29
29	30	25	167	64	---	226	288	347	147	44	47	29
30	25	25	97	65	---	286	274	348	134	50	48	29
31	24	---	95	61	---	295	---	422	---	48	50	---
Total	773	775	1,966	2,778	1,635	7,915	11,769	9,403	7,679	1,935	1,447	1,202
Mean	24.9	25.8	63.4	89.6	58.4	255	392	303	256	62.4	46.7	40.1
Max	55	35	167	332	81	489	678	422	745	121	53	52
Min	16	23	28	34	42	67	256	241	117	29	41	29
Ac-ft	1,530	1,540	3,900	5,510	3,240	15,700	23,340	18,650	15,230	3,840	2,870	2,380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	18.6	32.9	106	155	116	127	145	132	75.2	52.4	48.1	29.2
Max	29.2	214	791	1,091	607	343	392	465	256	70.1	72.1	43.5
(WY)	(1998)	(1999)	(1997)	(1997)	(1996)	(1998)	(2011)	(1998)	(2011)	(1998)	(2000)	(1998)
Min	4.93	9.70	14.4	16.4	16.9	13.6	12.7	22.3	31.0	23.6	35.2	8.33
(WY)	(1991)	(1993)	(1991)	(2001)	(1992)	(1992)	(1992)	(1992)	(2009)	(1992)	(1994)	(1992)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1991 - 2011	
Annual total	16,840		49,277			
Annual mean	46.1		135		86.4	
Highest annual mean					226	1997
Lowest annual mean					22.0	1992
Highest daily mean	167	Dec 29	745	Jun 2	6,910	Jan 1, 1997
Lowest daily mean	16	Oct 21	16	Oct 21	0.90	Oct 20, 1990
Annual seven-day minimum	17	Oct 16	17	Oct 16	1.4	Oct 23, 1990
Annual runoff (ac-ft)	33,400		97,740		62,590	
10 percent exceeds	73		346		197	
50 percent exceeds	39		59		45	
90 percent exceeds	25		26		16	

