

Water-Data Report 2009

14310000 COW CREEK NEAR RIDDLE, OR

Southern Oregon Coastal Basin
South Umpqua Subbasin

LOCATION.--Lat 42°55'25", long 123°25'40" referenced to North American Datum of 1927, in NE ¼ sec.32, T.30 S., R.6 W., Douglas County, OR, Hydrologic Unit 17100302, on left bank, 0.4 mi upstream from Council Creek, 3.8 mi southwest of Riddle and at mile 6.7.

DRAINAGE AREA.--456 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1954 to current year.

REVISED RECORDS.--WSP 1935: 1956(M).

GAGE.--Water-stage recorder. Datum of gage is 682.60 ft above NGVD of 1929.

REMARKS.--Records good. Flow regulated since Oct. 7, 1985 by Galesville Reservoir (station 14308995). Many small diversions for irrigation upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--31 years (water years 1955-85), 903 ft³/s, 26.92 in/yr, 654,500 acre-ft/yr. 55 years (water years 1955-2009), 808 ft³/s, 585,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,400 ft³/s Jan. 15, 1974, gage height, 28.17 ft; minimum discharge, 7.4 ft³/s Aug. 17-19, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 29, 1950, reached a stage of about 28.5 ft, present site and datum, discharge, 41,100 ft³/s, on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,600 ft³/s Dec. 29, gage height, 17.48 ft; minimum discharge, 35 ft³/s Sept. 4, 5.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	85	169	126	1,720	375	1,250	623	254	137	78	37	38
2	92	187	124	3,000	361	2,200	625	253	156	75	38	37
3	108	221	117	2,350	353	2,500	704	287	269	73	39	36
4	134	685	109	1,570	341	2,340	710	363	225	69	40	35
5	191	566	110	1,240	330	1,770	667	1,480	212	66	39	36
6	170	677	112	1,230	327	1,470	599	1,110	181	64	42	41
7	147	376	114	1,450	323	1,270	546	789	161	61	47	49
8	141	272	116	1,650	303	1,140	523	583	147	62	51	49
9	141	354	116	1,670	301	1,030	489	485	138	65	50	45
10	144	329	116	1,300	294	905	476	425	135	66	47	43
11	148	343	117	1,060	309	814	443	390	136	66	45	41
12	146	1,050	e120	928	388	737	412	348	133	64	43	40
13	141	582	e150	867	462	671	397	321	149	64	40	40
14	142	414	e150	811	495	658	391	318	147	64	39	38
15	152	313	e150	735	494	1,350	406	299	134	59	39	38
16	182	247	e140	674	524	4,330	389	277	127	57	40	40
17	192	202	e130	596	595	3,060	377	262	121	56	40	41
18	194	171	129	556	642	2,040	369	249	117	54	39	43
19	194	160	229	520	584	1,530	355	236	112	53	38	43
20	195	153	199	482	530	1,240	342	229	109	51	37	43
21	197	189	342	458	505	1,060	332	220	112	50	36	43
22	197	197	1,310	431	778	1,030	322	214	113	49	36	42
23	196	181	990	405	3,440	997	309	208	108	49	36	40
24	188	164	631	373	4,130	978	297	198	101	47	37	39
25	181	156	1,300	355	2,290	1,010	286	186	95	47	37	39
26	174	148	931	379	2,490	1,040	276	176	89	47	37	40
27	173	147	712	368	1,960	964	271	166	87	46	37	40
28	173	139	5,360	366	1,500	864	270	156	84	45	36	41
29	173	132	12,500	410	---	828	267	152	81	43	38	42
30	172	127	5,550	413	---	764	260	145	80	40	41	46
31	169	---	2,380	393	---	704	---	139	---	39	41	---
Total	5,032	9,051	34,680	28,760	25,424	42,544	12,733	10,918	3,996	1,769	1,242	1,228
Mean	162	302	1,119	928	908	1,372	424	352	133	57.1	40.1	40.9
Max	197	1,050	12,500	3,000	4,130	4,330	710	1,480	269	78	51	49
Min	85	127	109	355	294	658	260	139	80	39	36	35
Ac-ft	9,980	17,950	68,790	57,050	50,430	84,390	25,260	21,660	7,930	3,510	2,460	2,440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	125	713	1,811	2,161	1,799	1,474	875	418	165	79.5	53.4	59.3
Max	633	4,712	6,574	5,889	5,902	3,398	2,718	1,943	477	189	166	156
(WY)	(1963)	(1974)	(1956)	(1956)	(1958)	(1974)	(1982)	(1963)	(1998)	(1998)	(1993)	(1978)
Min	40.7	59.3	58.3	84.5	161	253	194	98.8	47.2	24.6	14.9	21.6
(WY)	(1975)	(1977)	(1977)	(1977)	(1977)	(2001)	(1990)	(2001)	(2001)	(1977)	(1977)	(2001)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1955 - 2009	
Annual total	243,331		177,377			
Annual mean	665		486		808	
Highest annual mean					1,809	1974
Lowest annual mean					147	1977
Highest daily mean	12,500	Dec 29	12,500	Dec 29	33,100	Jan 16, 1974
Lowest daily mean	53	Aug 3	35	Sep 4	7.8	Aug 17, 1977
Annual seven-day minimum	55	Jul 29	37	Aug 20	8.0	Aug 14, 1977
Annual runoff (ac-ft)	482,600		351,800		585,100	
10 percent exceeds	1,460		1,180		2,000	
50 percent exceeds	225		192		232	
90 percent exceeds	70		40		41	

