

14188800 THOMAS CREEK NEAR SCIO, OR

Willamette Basin
South Santiam Subbasin

LOCATION.--Lat 44°42'44", long 122°46'08" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.11, T.10 S., R.1 W., Linn County, OR, Hydrologic Unit 17090006, on right bank, at State Highway 226, 13 mi upstream from Mill Creek, 3.9 mi east of Scio and at mile 14.2

DRAINAGE AREA.--109.73 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1962 to September 1987, October 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 370 ft above NGVD of 1929, from topographic map. October 1962 to September 1987, at site 0.4 mi upstream, on left bank, at datum 380.84 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records fair. No regulation. Several small diversions for irrigation upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--36 years (water years 1963-87, 2003-13), 487 ft³/s, 60.28 in/yr, 352,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,400 ft³/s Dec. 22, 1964, gage height, 18.44 ft, site and datum then in use, from rating curve extended above 7,200 ft³/s on basis of slope-area measurement of peak flow; maximum gage height, 20.08 ft Jan. 19, 2012; minimum discharge, 3.4 ft³/s Sept. 6, 2003.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 20	0830	*9,200	*15.27
Dec 5	0200	4,150	11.58

Minimum discharge, 13 ft³/s, on several days.

14188800 THOMAS CREEK NEAR SCIO, OR—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	15	448	1,130	519	919	795	386	181	520	87	26	21
2	15	467	2,050	458	777	703	355	167	417	78	29	19
3	15	445	1,720	414	682	671	320	157	344	72	29	18
4	14	387	2,850	393	596	551	314	149	285	67	26	17
5	14	305	3,040	379	572	486	501	141	244	64	23	37
6	14	254	1,660	368	613	540	807	134	212	62	22	173
7	14	245	1,270	493	608	541	1,180	127	186	60	21	76
8	14	213	1,050	703	527	477	1,050	121	168	55	21	45
9	14	204	880	822	466	421	807	115	152	54	22	35
10	15	220	778	726	422	380	690	107	141	51	23	30
11	15	195	734	589	382	365	600	102	131	48	23	28
12	19	857	792	493	365	374	510	98	125	46	22	25
13	57	805	682	431	367	373	482	97	132	44	20	25
14	37	608	607	384	369	388	430	93	133	43	20	24
15	116	470	584	346	355	401	422	91	113	39	20	24
16	418	383	711	317	367	406	402	99	103	38	19	25
17	141	495	1,630	296	367	435	369	97	96	36	19	24
18	82	683	1,260	294	328	353	336	93	92	36	19	25
19	81	1,980	982	307	304	314	407	106	111	34	18	25
20	211	6,210	1,270	321	278	1,010	449	96	114	34	17	23
21	197	3,330	1,200	318	274	973	415	110	105	33	17	23
22	178	1,630	1,040	301	362	729	378	189	91	32	17	29
23	182	1,160	1,020	301	550	597	334	284	89	30	19	64
24	196	1,630	1,010	327	463	510	298	529	112	27	21	97
25	204	1,250	1,240	665	492	455	272	395	139	25	21	235
26	154	957	1,570	846	460	418	253	380	204	24	25	131
27	165	761	1,490	777	419	391	237	596	169	24	23	88
28	887	636	1,110	946	533	398	221	819	132	25	19	327
29	949	604	878	1,720	---	405	222	851	112	24	20	1,330
30	566	711	731	1,390	---	391	203	953	98	25	27	1,830
31	401	---	607	1,140	---	395	---	700	---	24	25	---
Total	5,400	28,543	37,576	17,784	13,217	15,646	13,650	8,177	5,070	1,341	673	4,873
Mean	174	951	1,212	574	472	505	455	264	169	43.3	21.7	162
Max	949	6,210	3,040	1,720	919	1,010	1,180	953	520	87	29	1,830
Min	14	195	584	294	274	314	203	91	89	24	17	17
Ac-ft	10,710	56,620	74,530	35,270	26,220	31,030	27,070	16,220	10,060	2,660	1,330	9,670
Cfsm	1.59	8.67	11.0	5.23	4.30	4.60	4.15	2.40	1.54	0.39	0.20	1.48
In.	1.83	9.68	12.74	6.03	4.48	5.30	4.63	2.77	1.72	0.45	0.23	1.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	154	679	1,048	1,080	787	742	588	384	226	72.1	37.5	59.4
Max	633	1,898	2,310	2,170	1,666	1,504	928	744	757	407	203	251
(WY)	(1969)	(1974)	(1965)	(2006)	(1986)	(1972)	(2012)	(1963)	(2010)	(1983)	(1968)	(1968)
Min	21.0	127	104	144	176	245	298	168	70.2	22.5	10.7	11.6
(WY)	(2007)	(2003)	(1977)	(1977)	(1977)	(1965)	(1968)	(1973)	(2003)	(2003)	(2003)	(2003)

14188800 THOMAS CREEK NEAR SCIO, OR—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1963 - 2013	
Annual total	245,315		151,950			
Annual mean	670		416		487	
Highest annual mean					760	1974
Lowest annual mean					229	1977
Highest daily mean	15,200	Jan 19	6,210	Nov 20	15,200	Jan 19, 2012
Lowest daily mean	14	Oct 4	14	Oct 4	4.5	Sep 6, 2003
Annual seven-day minimum	14	Oct 3	14	Oct 3	5.4	Aug 31, 2003
Annual runoff (ac-ft)	486,600		301,400		352,700	
Annual runoff (cfsm)	6.11		3.79		4.44	
Annual runoff (inches)	83.17		51.51		60.28	
10 percent exceeds	1,390		963		1,130	
50 percent exceeds	441		301		278	
90 percent exceeds	20		23		25	

