

Water-Data Report 2013

13335050 ASOTIN CREEK AT ASOTIN, WA

Lower Snake Basin
Lower Snake-Asotin Subbasin

LOCATION.--Lat 46°20'27", long 117°03'18" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.16, T.10 N., R.46 E., Asotin County, WA, Hydrologic Unit 17060103, on right bank near mouth, at upstream side of bridge on State Highway 129, at Asotin, and at mile 0.1.

DRAINAGE AREA.--323 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1991 to current year.

REVISED RECORDS.--WDR WA-93-1: 1992(M,m). WDR WA-96-1: 1991(M).

GAGE.--Water-stage recorder and crest stage gage. Datum of gage is 742.57 ft above NGVD of 1929.

REMARKS.--Records fair. No estimated daily discharges. Several diversions for irrigation. Miscellaneous data from January through September 1989 are available in the Spokane Field Office.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--22 years (water years 1991-2013), 97.0 ft³/s, 4.08 in/yr, 70,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,050 ft³/s, Jan. 1, 1997, gage height, 7.50 ft, from high-water mark, from rating curve extended above 550 ft³/s, on basis of slope-area measurement of peak flow; minimum daily discharge, 17 ft³/s, Aug. 6, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 412 ft³/s, December 3, gage height, 3.58 ft; minimum discharge, 30 ft³/s, August 9, 15, 16, 19-22, Sept. 14.

13335050 ASOTIN CREEK AT ASOTIN, WA—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	34	64	162	56	75	71	157	138	68	55	38	33
2	33	66	282	55	76	84	168	126	67	52	41	34
3	34	64	327	52	75	102	179	121	67	50	40	38
4	36	62	221	54	75	111	187	125	65	49	38	37
5	36	61	225	55	81	111	212	132	63	48	36	40
6	36	59	214	55	82	108	246	141	61	48	35	39
7	36	59	184	56	84	105	267	151	60	47	34	37
8	36	59	160	56	86	99	248	160	58	46	34	36
9	36	59	134	59	81	93	209	164	55	45	34	35
10	36	58	120	67	75	89	184	161	54	45	34	35
11	37	57	110	72	73	85	171	156	53	43	34	34
12	37	57	104	67	71	85	158	150	53	43	36	34
13	40	56	98	67	71	92	164	146	54	43	35	33
14	38	57	92	67	77	111	157	136	55	42	34	33
15	39	57	89	65	73	130	148	123	52	41	33	33
16	45	56	85	60	74	154	140	112	50	41	32	35
17	44	57	85	58	76	157	131	106	48	42	34	36
18	39	60	79	61	74	144	125	101	49	40	34	41
19	38	62	74	58	76	131	124	95	63	39	32	38
20	42	104	73	56	76	133	125	88	68	38	32	37
21	42	153	72	56	74	150	126	86	62	38	32	36
22	40	138	70	56	74	145	130	91	58	37	33	37
23	41	119	68	58	73	137	126	85	55	37	36	38
24	41	112	67	61	70	126	121	83	60	37	35	42
25	41	105	65	61	70	119	118	79	73	36	34	42
26	43	97	65	65	69	116	119	75	70	36	35	40
27	42	94	64	69	66	113	126	75	69	35	35	39
28	47	89	62	71	67	111	139	76	63	35	34	40
29	76	85	60	70	---	117	151	76	59	36	33	44
30	86	125	59	70	---	132	149	76	57	35	33	54
31	67	---	57	69	---	143	---	71	---	35	33	---
Total	1,318	2,351	3,627	1,902	2,094	3,604	4,805	3,505	1,789	1,294	1,073	1,130
Mean	42.5	78.4	117	61.4	74.8	116	160	113	59.6	41.7	34.6	37.7
Max	86	153	327	72	86	157	267	164	73	55	41	54
Min	33	56	57	52	66	71	118	71	48	35	32	33
Ac-ft	2,610	4,660	7,190	3,770	4,150	7,150	9,530	6,950	3,550	2,570	2,130	2,240
Cfsm	0.13	0.24	0.36	0.19	0.23	0.36	0.50	0.35	0.18	0.13	0.11	0.12
In.	0.15	0.27	0.42	0.22	0.24	0.42	0.55	0.40	0.21	0.15	0.12	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	37.6	47.5	72.9	87.2	108	147	194	219	131	51.4	35.1	34.5
Max	51.4	78.4	235	435	420	367	414	527	429	90.2	49.0	43.1
(WY)	(2000)	(2013)	(1999)	(1997)	(1996)	(1999)	(2012)	(2008)	(1999)	(1999)	(1999)	(1998)
Min	25.9	30.7	33.4	28.1	35.6	55.3	82.8	58.1	35.5	26.5	23.8	25.3
(WY)	(1999)	(1994)	(1993)	(1993)	(1993)	(2010)	(1992)	(1992)	(1992)	(1994)	(1994)	(1994)

13335050 ASOTIN CREEK AT ASOTIN, WA—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1991 - 2013	
Annual total	47,158		28,492			
Annual mean	129		78.1		97.0	
Highest annual mean					197	1999
Lowest annual mean					44.6	1994
Highest daily mean	1,060	Mar 31	327	Dec 3	3,000	Jan 1, 1997
Lowest daily mean	31	Aug 20	32	Aug 16	17	Aug 6, 1998
Annual seven-day minimum	32	Aug 18	33	Aug 15	21	Jan 7, 1993
Annual runoff (ac-ft)	93,540		56,510		70,300	
Annual runoff (cfsm)	0.399		0.242		0.300	
Annual runoff (inches)	5.43		3.28		4.08	
10 percent exceeds	298		145		204	
50 percent exceeds	72		64		50	
90 percent exceeds	33		35		32	

