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Water-Data Report 2008

**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 mi<sup>2</sup>.

**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 except for estimated daily discharges, which are poor. Several diversions for irrigation. Miscellaneous data from January through September 1989 are available in the Spokane Field Office.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--17 years (water years 1991-2008), 96.7 ft<sup>3</sup>/s, 4.07 in/yr, 70,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,050 ft<sup>3</sup>/s, Jan. 1, 1997, gage height, 7.50 ft, from high-water mark, from rating curve extended above 550 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow; minimum daily discharge, 17 ft<sup>3</sup>/s, Aug. 6, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,330 ft<sup>3</sup>/s, June 2, gage height, 4.86 ft; minimum discharge, 28 ft<sup>3</sup>/s, Oct. 2, 9, 10.

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## 13335050 ASOTIN CREEK AT ASOTIN, WA—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**  
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	30	33	36	46	44	198	86	243	967	86	47	35
2	29	33	36	48	43	179	83	209	1,050	77	44	35
3	31	33	70	49	43	150	79	208	811	69	45	34
4	33	33	281	49	42	130	80	236	749	66	42	34
5	33	33	215	49	42	114	81	322	610	64	45	33
6	31	33	157	48	42	105	85	421	531	62	46	33
7	30	33	124	48	42	102	89	439	432	62	50	33
8	30	33	102	47	42	103	96	431	340	69	50	33
9	30	33	90	47	43	114	102	352	300	70	54	33
10	29	33	83	47	45	122	100	290	294	68	51	33
11	31	35	72	47	51	159	99	271	252	66	44	33
12	30	36	71	46	73	165	108	281	233	64	48	33
13	30	48	66	45	90	157	163	255	215	59	51	32
14	30	41	63	45	87	159	256	268	207	54	51	32
15	31	37	61	45	81	151	239	389	198	53	73	32
16	31	37	59	41	77	134	207	548	182	51	50	32
17	34	41	57	43	76	123	189	686	169	50	45	32
18	33	58	55	44	75	127	201	779	159	49	40	31
19	37	51	60	44	75	145	202	870	151	49	39	31
20	40	45	84	45	76	129	183	924	141	48	40	32
21	36	41	85	37	78	121	160	913	140	53	52	43
22	34	38	74	e34	83	111	145	709	144	58	47	37
23	33	37	69	e32	89	106	143	575	134	63	37	38
24	33	36	66	e30	94	112	150	548	122	76	38	36
25	33	37	62	e31	103	109	149	600	114	60	41	35
26	33	36	60	e38	105	105	144	739	108	53	44	34
27	34	36	59	e50	116	103	154	732	99	51	39	34
28	34	36	58	48	125	100	195	745	95	52	36	34
29	33	36	56	45	149	96	315	788	89	49	36	34
30	33	36	53	44	---	94	317	856	87	46	35	34
31	33	---	50	45	---	89	---	721	---	46	35	---
<b>Total</b>	1,002	1,128	2,534	1,357	2,131	3,912	4,600	16,348	9,123	1,843	1,395	1,015
<b>Mean</b>	32.3	37.6	81.7	43.8	73.5	126	153	527	304	59.5	45.0	33.8
<b>Max</b>	40	58	281	50	149	198	317	924	1,050	86	73	43
<b>Min</b>	29	33	36	30	42	89	79	208	87	46	35	31
<b>Ac-ft</b>	1,990	2,240	5,030	2,690	4,230	7,760	9,120	32,430	18,100	3,660	2,770	2,010
<b>Cfsm</b>	0.10	0.12	0.25	0.14	0.23	0.39	0.47	1.63	0.94	0.18	0.14	0.10
<b>In.</b>	0.12	0.13	0.29	0.16	0.25	0.45	0.53	1.88	1.05	0.21	0.16	0.12

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2008, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	37.1	47.0	77.5	92.5	121	144	177	213	131	52.3	34.9	34.3
<b>Max</b>	51.4	74.0	235	435	420	367	382	527	429	90.2	49.0	43.1
(WY)	(2000)	(1999)	(1999)	(1997)	(1996)	(1999)	(1996)	(2008)	(1999)	(1999)	(1999)	(1998)
<b>Min</b>	25.9	30.7	33.4	28.1	35.6	55.5	82.8	58.1	35.5	26.5	23.8	25.3
(WY)	(1999)	(1994)	(1993)	(1993)	(1993)	(2005)	(1992)	(1992)	(1992)	(1994)	(1994)	(1994)

**13335050 ASOTIN CREEK AT ASOTIN, WA—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2007</b>	<b>Water Year 2008</b>	<b>Water Years 1991 - 2008</b>	
<b>Annual total</b>	23,881	46,388		
<b>Annual mean</b>	65.4	127	96.7	
<b>Highest annual mean</b>			197	1999
<b>Lowest annual mean</b>			44.6	1994
<b>Highest daily mean</b>	281	Dec 4	1,050	Jun 2
<b>Lowest daily mean</b>	22	Aug 31	29	Oct 2
<b>Annual seven-day minimum</b>	23	Aug 12	30	Oct 7
<b>Annual runoff (ac-ft)</b>	47,370		92,010	70,070
<b>Annual runoff (cfsm)</b>	0.203		0.392	0.299
<b>Annual runoff (inches)</b>	2.75		5.34	4.07
<b>10 percent exceeds</b>	124		281	202
<b>50 percent exceeds</b>	54		58	50
<b>90 percent exceeds</b>	25		33	32

