



Water-Data Report 2007

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 good 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.--16 years (water years 1991-2007), 94.8 ft³/s, 3.99 in/yr, 68,700 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, 258 ft³/s, Mar. 13, gage height, 2.68 ft, maximum gage height 3.31 ft Jan. 16 (backwater from ice); minimum discharge, 20 ft³/s, Aug. 13, 15, 16, 18, 30, 31.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	34	34	50	62	55	92	119	133	58	38	25	26
2	35	36	48	62	54	86	115	142	55	35	24	25
3	36	37	47	61	53	86	110	145	53	33	23	24
4	35	37	45	62	56	84	106	131	53	31	24	23
5	36	42	45	59	82	89	103	120	63	30	23	25
6	36	44	44	59	95	93	102	110	64	30	23	25
7	36	52	44	56	94	99	108	106	60	31	24	24
8	35	61	45	56	97	114	121	109	57	30	25	24
9	36	51	47	54	102	121	139	118	55	29	25	24
10	36	46	51	e50	106	121	140	121	62	29	24	24
11	35	45	53	e47	108	126	128	119	59	28	25	24
12	34	44	54	e44	137	179	119	115	54	27	23	24
13	34	47	67	e48	121	243	110	113	53	27	23	24
14	34	47	90	e44	112	209	107	105	51	28	23	25
15	34	43	114	e54	111	183	108	98	49	28	23	25
16	35	47	112	e58	123	162	105	95	48	28	23	24
17	36	48	99	e62	123	151	107	94	48	28	23	26
18	34	46	85	68	129	155	108	91	47	28	23	27
19	35	45	79	73	126	165	106	89	44	31	26	27
20	35	49	74	70	124	171	103	88	42	32	33	27
21	34	55	71	63	121	162	100	89	41	29	33	28
22	34	55	68	62	114	148	99	88	39	27	29	27
23	35	55	66	60	110	138	101	81	39	26	27	27
24	35	57	63	58	105	131	102	77	40	26	25	27
25	35	55	62	57	102	147	105	73	41	26	25	27
26	35	54	62	57	100	161	106	70	38	26	24	27
27	34	54	66	56	97	160	105	69	36	26	24	28
28	34	52	69	55	95	144	113	69	36	25	24	28
29	34	46	66	55	---	130	127	66	38	24	24	30
30	34	50	67	55	---	124	132	62	40	25	23	29
31	35	---	64	55	---	120	---	60	---	25	22	---
Total	1,080	1,434	2,017	1,782	2,852	4,294	3,354	3,046	1,463	886	765	775
Mean	34.8	47.8	65.1	57.5	102	139	112	98.3	48.8	28.6	24.7	25.8
Max	36	61	114	73	137	243	140	145	64	38	33	30
Min	34	34	44	44	53	84	99	60	36	24	22	23
Ac-ft	2,140	2,840	4,000	3,530	5,660	8,520	6,650	6,040	2,900	1,760	1,520	1,540
Cfsm	0.11	0.15	0.20	0.18	0.32	0.43	0.35	0.30	0.15	0.09	0.08	0.08
In.	0.12	0.17	0.23	0.21	0.33	0.49	0.39	0.35	0.17	0.10	0.09	0.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	37.4	47.6	77.2	95.5	124	145	178	195	121	51.9	34.3	34.4
Max	51.4	74.0	235	435	420	367	382	442	429	90.2	49.0	43.1
(WY)	(2000)	(1999)	(1999)	(1997)	(1996)	(1999)	(1996)	(1997)	(1999)	(1999)	(1999)	(1998)
Min	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)

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	Calendar Year 2006	Water Year 2007	Water Years 1991 - 2007	
Annual total	35,903	23,748		
Annual mean	98.4	65.1	94.8	
Highest annual mean			197	1999
Lowest annual mean			44.6	1994
Highest daily mean	364	Jan 14	243	Mar 13
Lowest daily mean	29	Aug 8	22	Aug 31
Annual seven-day minimum	29	Sep 3	23	Aug 12
Annual runoff (ac-ft)	71,210		47,100	68,700
Annual runoff (cfsm)	0.305		0.201	0.294
Annual runoff (inches)	4.13		2.74	3.99
10 percent exceeds	214		121	200
50 percent exceeds	67		54	50
90 percent exceeds	32		25	32

