

13335050 ASOTIN CREEK AT ASOTIN, WA

LOCATION.--Lat 46°20'27", long 117°03'18", in SW¹/₄SW¹/₄, sec.16, T.10 N., R.46 E., Asotin County, 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.

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. Datum of gage is 742.57 ft above NGVD of 1929.

REMARKS.--Records good, except for estimated daily discharges, which are fair, and those above 300 ft³/s, which are poor. Several diversions for irrigation. Miscellaneous data from January through September 1989 are available in the Spokane Field Office.

AVERAGE DISCHARGE.--13 years (water years 1992-2004), 100 ft³/s, 4.21 in/yr, 72,550 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, 264 ft³/s, June 19, gage height, 2.89 ft; minimum discharge, 32 ft³/s, Aug. 1-2, 14-15, Sept. 24, 28-30, but may have been less during period of missing record Oct. 2-8 and Jan. 5-8.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	40	43	47	61	72	98	105	122	61	36	39
2	e36	41	43	46	59	70	91	113	118	66	36	39
3	e36	41	42	46	58	68	87	121	110	60	41	40
4	e36	41	e43	43	57	67	87	122	104	58	41	39
5	e34	41	e45	e38	55	67	94	119	101	56	42	38
6	e35	40	47	e36	53	65	99	115	102	54	42	36
7	e36	41	51	e38	52	60	101	108	99	52	45	36
8	e36	41	46	e40	52	61	102	105	152	51	42	36
9	37	42	44	47	51	68	101	100	164	49	39	36
10	38	41	44	46	51	84	99	98	148	49	37	36
11	37	42	44	46	50	88	97	99	135	49	36	36
12	39	41	43	46	49	89	97	95	123	47	36	37
13	39	40	44	46	48	90	101	88	115	46	36	37
14	39	40	53	47	49	90	110	81	107	45	35	38
15	40	40	50	48	49	91	114	79	100	43	36	38
16	43	40	48	49	49	91	104	86	95	42	36	39
17	41	43	47	50	50	95	103	84	90	42	36	37
18	40	42	46	50	78	105	100	82	85	42	38	38
19	39	42	46	50	104	116	99	e110	94	48	36	37
20	39	43	46	50	100	109	98	e160	87	51	38	39
21	38	42	47	49	93	102	99	169	79	45	37	37
22	39	41	46	49	88	102	102	181	75	43	50	37
23	37	41	46	49	84	108	101	177	71	41	52	36
24	39	42	47	49	82	117	100	159	68	40	48	35
25	39	42	48	49	82	113	98	143	67	39	47	34
26	38	41	48	48	79	107	97	134	65	38	49	34
27	38	39	46	48	77	102	103	129	63	39	45	34
28	38	40	46	48	75	96	119	141	60	39	44	33
29	39	44	48	50	74	91	115	152	60	38	42	33
30	41	45	43	57	---	91	106	139	63	38	41	33
31	40	---	46	62	---	101	---	128	---	37	39	---
TOTAL	1,182	1,239	1,426	1,467	1,909	2,776	3,022	3,722	2,922	1,448	1,258	1,097
MEAN	38.1	41.3	46.0	47.3	65.8	89.5	101	120	97.4	46.7	40.6	36.6
MAX	43	45	53	62	104	117	119	181	164	66	52	40
MIN	34	39	42	36	48	60	87	79	60	37	35	33
AC-FT	2,340	2,460	2,830	2,910	3,790	5,510	5,990	7,380	5,800	2,870	2,500	2,180
CFSM	0.12	0.13	0.14	0.15	0.20	0.28	0.31	0.37	0.30	0.14	0.13	0.11
IN.	0.14	0.14	0.16	0.17	0.22	0.32	0.35	0.43	0.34	0.17	0.14	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2004, BY WATER YEAR (WY)

MEAN	37.8	48.6	83.3	101	134	153	183	205	132	54.8	35.7	35.5
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	57.9	82.8	58.1	35.5	26.5	23.8	25.3
(WY)	(1999)	(1994)	(1993)	(1993)	(1993)	(2001)	(1992)	(1992)	(1992)	(1994)	(1994)	(1994)

ASOTIN CREEK BASIN

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1991 - 2004	
ANNUAL TOTAL	31,333		23,468		100	
ANNUAL MEAN	85.8		64.1		197	
HIGHEST ANNUAL MEAN					1999	
LOWEST ANNUAL MEAN					1994	
HIGHEST DAILY MEAN	467	Mar 16	181	May 22	3,000	Jan 1, 1997
LOWEST DAILY MEAN	29	Aug 20	33	Sep 28	17	Aug 6, 1998
ANNUAL SEVEN-DAY MINIMUM	31	Aug 29	34	Sep 24	21	Jan 7, 1993
ANNUAL RUNOFF (AC-FT)	62,150		46,550		72,550	
ANNUAL RUNOFF (CFSM)	0.266		0.199		0.310	
ANNUAL RUNOFF (INCHES)	3.61		2.70		4.21	
10 PERCENT EXCEEDS	184		108		215	
50 PERCENT EXCEEDS	48		48		50	
90 PERCENT EXCEEDS	33		37		32	

e Estimated