

ASOTIN CREEK BASIN

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13335050 ASOTIN CREEK AT ASOTIN, WA

LOCATION.--Lat 46°20'27", long 117°03'18", in SW 1/4 SW 1/4 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.--No estimated daily discharges. Records good except for 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.--11 years (water years 1992-2002), 105 ft³/s, 4.40 in/yr, 75,810 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, 963 ft³/s Apr. 14, gage height, 4.45 ft; minimum discharge, 29 ft³/s Sept. 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	53	46	46	49	87	154	192	186	71	39	36
2	36	47	46	47	47	77	154	200	175	68	39	36
3	35	44	46	53	46	72	150	209	165	66	39	35
4	35	43	45	55	45	67	147	197	155	63	40	35
5	35	42	44	55	44	65	164	183	146	63	44	37
6	36	41	45	55	44	65	206	170	143	60	44	37
7	36	40	44	64	46	74	243	154	134	59	44	39
8	36	40	44	131	49	69	224	142	129	61	41	40
9	36	40	44	147	45	66	214	133	127	57	40	38
10	36	40	44	122	44	63	225	126	136	55	39	37
11	44	40	45	104	44	70	242	122	129	53	38	35
12	43	41	45	91	43	343	237	119	124	51	37	34
13	39	40	46	84	44	248	307	129	121	51	36	34
14	39	40	59	79	44	198	724	154	122	50	36	33
15	40	41	59	75	44	134	498	162	122	49	36	35
16	39	40	56	69	44	116	311	152	119	48	35	37
17	37	41	57	65	46	94	248	153	116	47	36	41
18	38	40	56	61	46	88	213	165	119	46	36	41
19	38	40	56	59	48	74	187	189	111	46	36	39
20	39	40	54	57	53	79	172	232	104	47	37	37
21	39	44	53	56	55	87	162	224	99	45	43	37
22	39	47	52	54	79	81	167	190	95	43	46	37
23	41	51	50	51	156	87	177	174	92	43	41	37
24	41	49	49	50	171	246	168	169	89	44	39	37
25	40	50	47	52	124	213	159	169	85	46	39	37
26	40	47	46	58	105	181	162	173	81	44	41	38
27	40	45	46	54	103	173	173	185	78	43	39	39
28	41	46	48	50	97	160	170	212	75	41	38	38
29	41	46	47	47	---	157	166	231	84	41	39	40
30	44	46	46	50	---	141	177	222	77	40	40	40
31	49	---	46	50	---	138	---	196	---	39	38	---
TOTAL	1208	1304	1511	2091	1805	3813	6701	5428	3538	1580	1215	1116
MEAN	39.0	43.5	48.7	67.5	64.5	123	223	175	118	51.0	39.2	37.2
MAX	49	53	59	147	171	343	724	232	186	71	46	41
MIN	35	40	44	46	43	63	147	119	75	39	35	33
AC-FT	2400	2590	3000	4150	3580	7560	13290	10770	7020	3130	2410	2210
CFSM	0.12	0.13	0.15	0.21	0.20	0.38	0.69	0.54	0.37	0.16	0.12	0.12
IN.	0.14	0.15	0.17	0.24	0.21	0.44	0.77	0.63	0.41	0.18	0.14	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2002, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	37.5	49.7	89.7	108	143	154	190	216	139	56.9	35.6	35.4
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	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

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1991 - 2002

ANNUAL TOTAL	19848	31310		
ANNUAL MEAN	54.4	85.8	105	1999
HIGHEST ANNUAL MEAN			197	1994
LOWEST ANNUAL MEAN			44.6	1994
HIGHEST DAILY MEAN	205	Apr 28	724	Apr 14
LOWEST DAILY MEAN	32	Aug 12	33	Sep 14
ANNUAL SEVEN-DAY MINIMUM	32	Aug 15	35	Sep 10
ANNUAL RUNOFF (AC-FT)	39370	62100	75810	
ANNUAL RUNOFF (CFSM)	0.17	0.27	0.32	
ANNUAL RUNOFF (INCHES)	2.29	3.61	4.40	
10 PERCENT EXCEEDS	83	177	234	
50 PERCENT EXCEEDS	45	50	51	
90 PERCENT EXCEEDS	33	37	32	