

ASOTIN CREEK BASIN

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13335050 ASOTIN CREEK AT ASOTIN, WA

LOCATION.--Lat 46°20'27", long 117°03'18", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ 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 sea level.

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

AVERAGE DISCHARGE.--10 years (water years 1992-2001), 107 ft³/s, 4.48 in/yr, 77,180 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, 263 ft³/s Apr. 26, gage height, 3.04 ft; minimum discharge, 29 ft³/s Aug. 17,

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	47	47	47	45	43	78	198	60	43	38	32
2	51	47	47	46	45	44	79	180	59	42	36	32
3	46	47	47	46	46	44	77	162	59	41	35	33
4	45	49	47	45	47	43	73	151	59	40	37	32
5	44	51	46	46	70	44	70	149	61	40	39	32
6	44	50	47	47	53	44	69	142	63	40	36	32
7	43	49	47	46	48	45	71	135	59	40	34	32
8	43	51	47	46	44	46	70	135	58	39	34	33
9	43	50	47	46	47	48	68	141	57	38	33	33
10	44	48	48	46	46	49	67	141	55	37	33	33
11	45	48	47	47	45	49	70	138	54	37	33	32
12	45	47	45	51	45	49	70	140	57	37	32	32
13	44	47	46	49	44	50	69	142	56	39	33	32
14	44	47	47	48	43	52	68	147	54	37	33	33
15	44	47	49	47	43	52	67	153	51	37	32	33
16	44	47	46	46	43	53	67	147	50	44	32	33
17	43	46	48	44	43	53	70	134	48	42	32	33
18	44	46	46	47	43	53	80	123	48	40	32	33
19	44	46	46	48	43	55	89	113	46	39	32	33
20	45	46	46	47	43	66	92	103	45	38	32	34
21	48	47	46	47	43	67	91	97	44	40	32	34
22	47	46	47	47	45	66	89	92	43	39	33	34
23	45	46	48	45	46	67	89	87	42	38	34	34
24	45	46	49	45	44	69	91	83	44	37	35	33
25	45	46	47	46	44	76	99	78	46	36	34	34
26	46	47	47	45	44	83	137	73	46	36	33	35
27	47	47	47	44	43	80	164	71	54	36	32	36
28	48	47	47	44	43	79	205	72	58	36	32	40
29	52	47	47	44	---	78	182	68	49	37	32	38
30	50	48	47	45	---	75	169	64	46	39	32	36
31	48	---	47	44	---	74	---	62	---	39	32	---
TOTAL	1425	1423	1455	1431	1278	1796	2780	3721	1571	1203	1039	1006
MEAN	46.0	47.4	46.9	46.2	45.6	57.9	92.7	120	52.4	38.8	33.5	33.5
MAX	59	51	49	51	70	83	205	198	63	44	39	40
MIN	43	46	45	44	43	43	67	62	42	36	32	32
AC-FT	2830	2820	2890	2840	2530	3560	5510	7380	3120	2390	2060	2000
CFSM	.14	.15	.15	.14	.14	.18	.29	.37	.16	.12	.10	.10
IN.	.16	.16	.17	.16	.15	.21	.32	.43	.18	.14	.12	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2001, BY WATER YEAR (WY)

MEAN	37.4	50.3	93.8	112	151	157	187	220	141	57.4	35.2	35.2
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 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1991 - 2001
ANNUAL TOTAL	33249	20128	
ANNUAL MEAN	90.8	55.1	
HIGHEST ANNUAL MEAN			
LOWEST ANNUAL MEAN			
HIGHEST DAILY MEAN	387	Apr 14	3000 Jan 1 1997
LOWEST DAILY MEAN	32	Aug 23	17 Aug 6 1998
ANNUAL SEVEN-DAY MINIMUM	33	Aug 18	21 Jan 7 1993
ANNUAL RUNOFF (AC-FT)	65950	39920	77180
ANNUAL RUNOFF (CFSM)	.28	.17	.33
ANNUAL RUNOFF (INCHES)	3.83	2.32	4.48
10 PERCENT EXCEEDS	181	83	240
50 PERCENT EXCEEDS	54	46	52
90 PERCENT EXCEEDS	38	33	32