

SPOKANE RIVER BASIN

12433556 MIDNITE MINE DRAINAGE NEAR WELLPINIT, WA

LOCATION.--Lat 47°55'27", long 118°05'20", in NW 1/4 SE 1/4 sec.13, T.28 N., R.37 E., Stevens County, Hydrologic Unit 17010307, Spokane Indian Reservation, on right bank, 2.4 mi downstream from Turtle Lake, and 0.1 mi upstream from confluence with Blue Creek, and 5.4 mi northwest of Wellpinit.

DRAINAGE AREA.--1.3 mi².

PERIOD OF RECORD.--June 1984 to October 1998, January to September 2000.

GAGE.--Water-stage recorder. Elevation of gage is 2,070 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Three ponds upstream from gage exist for mine surface-water retention; June 1987, three diversions from the upstream channels were added to retain and treat contaminated water for mixing and later release. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--14 years (water years 1985-98), 0.40 ft³/s, 292 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5.9 ft³/s Mar. 19, 1997, gage height, 1.78 ft; no flow during part of water years 1986 to 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period Jan. to Sept., 1.7 ft³/s June 12, gage height 1.39 ft; minimum daily discharge for the same period 0.10 ft³/s Jan. 19, 28-30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.12	e.16	.35	.30	.90	1.0	.88	.82	.78
2	e.12	e.16	.34	.28	.80	1.0	.90	.81	.82
3	e.14	e.16	.38	.28	.76	.99	.92	.81	.79
4	e.16	e.14	1.2	.28	.77	.98	.93	.81	.85
5	e.14	e.14	1.2	.27	.92	.98	.92	.82	.83
6	e.12	e.14	1.1	.27	.96	.98	.92	.82	.86
7	e.12	e.16	.95	.53	.99	.95	.92	.81	.85
8	e.14	e.18	.83	.68	1.0	1.1	.91	.81	.85
9	e.14	e.16	.73	.73	1.0	1.0	.93	.79	.85
10	e.12	e.16	.64	.73	1.0	.96	.93	.78	.90
11	e.12	e.14	.78	.73	1.0	.98	.92	.80	.84
12	e.12	e.14	.64	.73	1.0	1.2	.89	.81	.57
13	e.12	e.14	.58	.83	.99	.91	.89	.81	.70
14	e.14	e.14	.68	.93	.99	.88	.89	.81	.76
15	e.14	e.16	.57	.85	1.0	.89	.89	.80	.69
16	e.16	e.16	.58	.78	1.0	.92	.92	.80	.72
17	e.14	e.14	.53	.79	1.1	.92	.91	.80	.61
18	e.12	e.12	.52	.83	1.1	.92	.90	.80	.68
19	e.10	e.14	.51	.88	.95	.91	.89	.80	.81
20	e.12	e.16	.46	.89	.95	.92	.88	.81	.81
21	e.12	e.18	.44	.89	1.0	.91	.91	.81	.82
22	e.12	e.20	.42	.88	1.0	.91	.86	.81	.78
23	e.12	e.20	.42	.89	.99	.88	.82	.79	.69
24	e.12	.19	.39	.89	.97	.89	.81	.78	.68
25	e.12	e.18	.39	.89	.96	.87	.82	.79	.67
26	e.12	e.24	.35	.89	1.0	.87	.84	.80	.62
27	e.12	e.30	.35	.91	1.0	.86	.82	.80	.50
28	e.10	.34	.35	.94	1.0	.84	.83	.72	.53
29	e.10	.35	.32	.94	1.0	.85	.83	.41	.55
30	e.10	---	.31	.94	1.0	.88	.83	.63	.61
31	e.12	---	.31	---	1.1	---	.82	.81	---
TOTAL	3.86	5.18	17.62	21.65	30.20	28.15	27.33	24.27	22.02
MEAN	.12	.18	.57	.72	.97	.94	.88	.78	.73
MAX	.16	.35	1.2	.94	1.1	1.2	.93	.82	.90
MIN	.10	.12	.31	.27	.76	.84	.81	.41	.50
AC-FT	7.7	10	35	43	60	56	54	48	44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2000, BY WATER YEAR (WY)

MEAN	.44	.40	.18	.19	.26	.61	.56	.53	.48	.43	.41	.44
MAX	1.27	1.11	.51	.73	.65	1.69	1.31	1.29	1.12	1.05	1.06	1.11
(WY)	1997	1996	1996	1997	1997	1997	1995	1995	1996	1996	1996	1997
MIN	.051	.076	.068	.075	.088	.13	.098	.064	.046	.026	.008	.027
(WY)	1992	1991	1993	1989	1993	1992	1992	1992	1992	1988	1992	1989

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1984 - 2000

ANNUAL MEAN											.40	
HIGHEST ANNUAL MEAN											1.00	1997
LOWEST ANNUAL MEAN											.076	1992
HIGHEST DAILY MEAN						1.2	Mar 4			5.3	Mar 20	1997
LOWEST DAILY MEAN						.10	Jan 19			.00	Jun 22	1986
ANNUAL SEVEN-DAY MINIMUM						.11	Jan 24			.00	Aug 8	1990
ANNUAL RUNOFF (AC-FT)											292	
10 PERCENT EXCEEDS						.99					1.1	
50 PERCENT EXCEEDS						.81					.18	
90 PERCENT EXCEEDS						.14					.05	

e Estimated