

PALOUSE RIVER BASIN

13348000 SOUTH FORK PALOUSE RIVER AT PULLMAN, WA

LOCATION.--Lat 46°43'57", long 117°10'48", in NE 1/4 NE 1/4 sec.6, T.14 N., R.45 E., Whitman County, Hydrologic Unit 17060108, on right bank at State Street crossing in Pullman, 600 ft upstream from Missouri Flat Creek, and at mile 22.2.

DRAINAGE AREA.--132 mi².

PERIOD OF RECORD.--February 1934 to September 1942, December 1959 to September 1981, May 2001 to current year. Chemical analyses water years 1974, 1978 to June 1980.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2,326.3 ft above NGVD of 1929. Prior to March 19, 1934, nonrecording gage at site 30 ft upstream.

REMARKS.--Records fair. Minor diversions for domestic use above station. Slight regulation caused by pondage at Robinson Park Dam on headwaters and by Moscow sewage disposal plant on Paradise Creek. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--30 years (water years 1935-42, 1961-81, 2002), 39.2 ft³/s, 4.03 in/yr, 28,360 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,570 ft³/s Jan. 21, 1972, gage height, 9.46 ft; minimum, 0.1 ft³/s Sept. 23, 1942, gage height, 0.50 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since 1910, 9.5 ft Feb. 26, 1948, discharge, 5,000 ft³/s. Flood of Jan. 24, 1959, reached a stage of 6.5 ft from floodmarks, discharge, 1,860 ft³/s. Flood of Dec. 22, 1933, reached a stage of 6.0 ft from gage readings furnished by Washington State University, discharge, 1,800 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 902 ft³/s Mar. 12, gage height, 4.85 ft; minimum discharge, 2.0 ft³/s Aug. 20, 21.

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	5.3	15	20	15	49	80	98	43	18	7.8	3.2	4.8
2	4.8	9.8	27	20	46	68	91	42	18	6.9	3.2	4.3
3	4.9	8.3	31	29	43	63	85	40	17	6.7	3.3	5.0
4	4.5	7.6	e27	38	42	64	81	38	16	6.0	3.4	4.0
5	3.9	7.2	21	33	39	62	81	40	15	5.8	4.1	4.5
6	5.5	7.3	24	36	41	109	89	41	14	5.3	4.0	4.1
7	5.9	6.9	30	227	60	103	85	40	13	4.8	4.1	4.4
8	7.2	7.0	24	290	113	75	80	e41	13	7.4	3.7	4.7
9	6.5	6.6	24	155	117	70	76	e38	16	8.0	3.4	5.2
10	5.9	7.7	23	82	97	86	78	34	22	6.8	3.4	4.7
11	19	8.5	21	62	87	334	79	31	20	6.3	3.8	4.1
12	10	6.5	19	53	74	540	78	e30	15	5.0	4.0	3.8
13	9.6	6.6	65	53	64	204	78	29	12	4.3	3.2	3.7
14	12	12	121	46	58	136	202	36	9.9	4.3	3.0	4.4
15	9.7	10	74	39	52	113	123	27	10	4.0	2.8	4.3
16	7.0	9.8	55	33	53	106	95	27	8.3	3.8	3.5	4.4
17	6.3	17	59	30	60	100	83	26	8.7	4.0	2.9	7.0
18	5.9	12	51	28	73	84	75	27	25	3.4	2.7	7.4
19	6.4	8.3	38	28	104	109	67	26	22	3.4	2.7	5.7
20	6.3	9.0	31	32	130	218	63	25	14	3.4	2.7	5.0
21	6.2	16	29	46	118	152	60	26	10	3.4	2.7	5.0
22	9.7	24	26	38	331	123	57	27	9.4	3.3	8.2	5.0
23	13	32	22	33	362	113	55	29	9.2	3.8	6.2	4.8
24	7.8	15	19	45	584	419	53	25	9.4	3.4	4.6	4.6
25	7.1	19	17	397	164	328	51	23	7.9	3.1	4.4	4.5
26	6.3	26	16	322	107	205	50	22	7.2	2.8	5.1	4.0
27	7.3	20	15	132	92	163	53	22	7.1	2.7	5.0	4.9
28	10	15	15	79	87	131	51	31	6.8	2.7	5.0	5.7
29	9.1	16	15	63	---	116	47	24	17	3.0	4.6	6.1
30	17	18	15	55	---	106	45	22	9.6	3.3	8.5	6.1
31	27	---	15	50	---	100	---	20	---	3.7	4.9	---
TOTAL	267.1	384.1	989	2589	3247	4680	2309	952	400.5	142.6	126.3	146.2
MEAN	8.62	12.8	31.9	83.5	116	151	77.0	30.7	13.3	4.60	4.07	4.87
MAX	27	32	121	397	584	540	202	43	25	8.0	8.5	7.4
MIN	3.9	6.5	15	15	39	62	45	20	6.8	2.7	2.7	3.7
AC-FT	530	762	1960	5140	6440	9280	4580	1890	794	283	251	290
CFSM	0.07	0.10	0.24	0.63	0.88	1.14	0.58	0.23	0.10	0.03	0.03	0.04
IN.	0.08	0.11	0.28	0.73	0.92	1.32	0.65	0.27	0.11	0.04	0.04	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2002, BY WATER YEAR (WY)

	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945
MEAN	4.31	9.17	36.0	84.9	111	118	58.4	23.3	10.3	3.72	2.95	3.23
MAX	9.43	40.9	219	401	360	313	137	58.4	40.5	7.81	8.89	6.03
(WY)	1976	1974	1974	1974	1972	1969	1969	1975	1971	1975	1972	1972
MIN	1.08	1.44	2.70	1.77	10.5	14.0	8.20	5.75	1.52	0.86	0.50	0.49
(WY)	1940	1940	1937	1937	1977	1977	1977	1934	1940	1940	1940	1942

SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 1934 - 2002

ANNUAL TOTAL	16232.8	
ANNUAL MEAN	44.5	39.2
HIGHEST ANNUAL MEAN		111 1974
LOWEST ANNUAL MEAN		7.73 1977
HIGHEST DAILY MEAN	584 Feb 24	3200 Jan 21 1972
LOWEST DAILY MEAN	2.7 Jul 27	0.30 Sep 1 1942
ANNUAL SEVEN-DAY MINIMUM	2.9 Aug 15	0.31 Sep 1 1942
ANNUAL RUNOFF (AC-FT)	32200	28360
ANNUAL RUNOFF (CFSM)	0.34	0.30
ANNUAL RUNOFF (INCHES)	4.57	4.03
10 PERCENT EXCEEDS	106	97
50 PERCENT EXCEEDS	19	8.3
90 PERCENT EXCEEDS	4.0	1.8

e Estimated