

13351000 PALOUSE RIVER AT HOOPER, WA--Continued
(National Water-Quality Assessment station)

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1993 to September 1994.

WATER TEMPERATURE: August 1993 to current year.

SUSPENDED SEDIMENT DISCHARGE: October 1992 to September 1999.

INSTRUMENTATION.--Water-quality monitor since August 1993. Electronic data logger with sixty-minute recording interval except for period Nov. 15, 1994 to Oct. 20, 1995, when the recording interval was seventy-two minutes.

REMARKS.--Record excellent. In October 1996, station became a Central Columbia Plateau National Water-Quality Assessment Program (NAWQA) surface-water quality trend site.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 447 microsiemens Aug. 14, 1994, but may have been higher during periods of missing record; minimum recorded, 140 microsiemens Mar. 10, 1994, but may have been lower during periods of missing record.

WATER TEMPERATURE: Maximum recorded 32.5°C July 24, 1994, but may have been higher during periods of missing record; minimum recorded, 0.0°C for several days during winter months.

SEDIMENT CONCENTRATION: Maximum daily mean, 10,100 mg/L Feb. 8, 1996; minimum daily mean, 4 mg/L Nov. 16, 1996.

SEDIMENT DISCHARGE: Maximum daily, 527,000 tons Feb. 9, 1996; minimum daily, 0.04 tons Aug. 16, 20, 1994.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum 26.0°C July 12, but may have been lower during period of missing record; minimum, 0.5°C Jan. 3, 4, 30, (more than 20 percent of record missing).

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	11.0	12.5	9.0	7.5	8.0	7.0	6.0	6.5	2.0	1.0	1.5
2	13.5	10.5	12.0	7.5	6.0	7.0	6.5	5.5	6.0	2.0	1.0	1.5
3	13.5	10.0	12.0	7.0	5.5	6.5	5.5	3.5	5.0	1.0	.5	1.0
4	13.5	9.5	12.0	8.0	6.0	7.0	3.5	3.0	3.0	2.5	.5	1.5
5	13.5	11.0	12.5	7.0	5.5	6.5	3.5	3.0	3.0	3.0	2.0	2.5
6	14.0	12.0	13.0	8.0	6.5	7.5	4.5	3.0	3.5	2.0	1.5	1.5
7	14.0	12.0	13.0	8.5	7.5	8.0	4.5	3.0	4.0	2.5	1.5	1.5
8	13.5	12.5	13.0	9.0	8.5	8.5	3.5	2.5	3.0	3.5	2.0	3.0
9	13.5	12.0	13.0	9.0	8.0	8.5	3.5	2.5	3.0	3.5	2.5	3.0
10	13.5	10.5	12.0	9.5	8.5	9.0	3.5	2.5	3.0	2.5	1.5	2.0
11	13.0	11.5	12.0	9.5	9.0	9.0	4.5	2.5	3.5	2.5	1.5	2.0
12	14.0	11.5	12.5	12.0	9.5	10.5	5.5	4.0	5.0	2.0	1.0	1.5
13	14.5	12.0	13.0	13.0	11.5	12.0	5.0	2.5	4.0	2.5	1.5	2.0
14	13.0	11.5	12.5	13.0	11.5	12.0	3.5	2.5	3.0	3.5	2.5	3.0
15	12.0	10.0	11.0	11.5	9.5	10.5	5.0	3.5	4.0	3.5	2.5	3.0
16	10.5	8.0	9.5	9.5	8.5	9.0	6.5	5.0	6.0	3.5	2.5	3.0
17	9.5	7.0	8.5	8.5	7.5	8.5	6.0	4.5	5.0	3.5	2.5	2.5
18	9.5	6.5	8.0	8.0	7.0	7.5	5.0	5.0	5.0	2.5	1.5	1.5
19	9.5	6.5	8.0	7.5	7.0	7.5	5.0	3.5	3.5	2.0	1.5	1.5
20	10.0	7.0	8.5	7.5	6.5	7.0	3.5	2.0	2.5	2.0	1.5	1.5
21	10.0	7.0	8.5	6.5	5.5	6.0	3.0	2.5	2.5	2.0	1.5	1.5
22	10.0	7.5	8.5	5.5	5.0	5.0	3.0	2.5	3.0	2.0	1.5	1.5
23	10.0	7.5	9.0	5.0	4.5	4.5	3.0	3.0	3.0	2.5	1.5	2.0
24	10.0	9.0	9.5	5.5	4.5	5.0	3.0	3.0	3.0	3.0	2.5	2.5
25	10.5	8.5	9.5	6.5	5.5	6.0	3.0	2.5	3.0	3.0	2.5	3.0
26	10.0	9.5	10.0	8.0	6.5	7.5	3.0	2.5	3.0	3.0	2.5	3.0
27	9.5	8.5	9.0	7.5	5.5	6.5	2.5	2.5	2.5	3.0	2.0	2.5
28	9.5	8.5	9.0	6.0	5.5	5.5	2.5	2.0	2.5	2.0	1.5	2.0
29	9.5	7.5	8.5	6.0	5.0	6.0	2.0	1.5	2.0	2.0	1.0	1.5
30	10.5	8.5	9.5	6.5	5.0	6.0	1.5	1.5	1.5	1.5	.5	1.0
31	10.0	9.0	9.5	---	---	---	1.5	1.0	1.0	2.0	1.0	1.5
MONTH	14.5	6.5	10.6	13.0	4.5	7.6	7.0	1.0	3.5	3.5	.5	2.0

PALOUSE RIVER BASIN

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WATER-QUALITY DATA

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	HARDNESS NONCARB DISSOLVED (MG/L AS CaCO3) (00904)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)
OCT 1999											
05...	1030	52	98	10.3	8.8	395	11.2	140	--	34.0	13.6
NOV											
02...	1200	134	111	13.3	8.9	386	6.4	130	--	33.0	12.7
DEC											
07...	1030	276	98	12.4	8.3	305	3.8	100	--	26.5	9.25
JAN 2000											
06...	1100	447	99	13.4	8.3	301	1.7	100	--	26.9	9.14
FEB											
02...	1030	1070	91	11.5	8.2	283	4.2	96	--	24.5	8.39
MAR											
07...	1300	3020	99	12.1	8.1	193	4.9	65	3	16.7	5.61
APR											
04...	1230	1710	103	10.7	8.2	201	11.6	71	--	18.2	6.16
MAY											
03...	1130	736	110	10.2	9.2	237	16.7	79	--	20.0	7.12
JUN											
07...	1030	330	95	8.1	8.1	266	21.0	93	--	23.6	8.26
JUL											
06...	1130	143	92	8.2	8.3	315	19.0	110	--	28.1	10.5
AUG											
02...	1010	36	108	8.8	9.0	344	23.9	120	--	29.4	12.0
SEP											
06...	1050	53	108	10.3	9.1	365	16.2	130	--	30.5	13.6

WATER-QUALITY DATA

DATE	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORPTION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM PERCENT (00932)	ALKALINITY WATER DIS TOT IT FIELD (MG/L AS CaCO3) (39086)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CARBONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT 1999											
05...	4.5	1	28.2	30	169	192	7	11.9	.3	18.4	16.1
NOV											
02...	5.3	1	27.3	30	162	181	8	15.0	.3	12.2	13.8
DEC											
07...	4.0	.8	19.9	28	108	132	0	10.8	.2	29.8	14.3
JAN 2000											
06...	3.4	.8	19.1	28	112	137	0	6.7	.1	30.9	14.0
FEB											
02...	3.4	.7	16.8	27	99	121	0	6.1	.2	27.7	14.4
MAR											
07...	2.5	.6	11.0	26	62	76	0	3.4	<.1	27.8	10.1
APR											
04...	2.7	.6	11.1	25	72	87	0	3.2	.1	27.4	9.8
MAY											
03...	2.7	.7	14.5	28	94	90	12	4.5	.2	16.3	10.7
JUN											
07...	3.4	.7	16.2	27	108	131	0	5.1	.2	24.9	11.6
JUL											
06...	3.7	.8	20.4	27	124	163	0	6.2	.3	21.0	12.8
AUG											
02...	4.6	1	24.8	30	157	155	18	8.6	.2	24.0	14.0
SEP											
06...	4.4	1	27.2	30	159	165	14	11.1	.3	17.3	14.3

PALOUSE RIVER BASIN

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WATER-QUALITY DATA

DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)
OCT 1999											
05...	.31	.62	<.020	.792	.010	.032	.026	.120	3.3	1.2	.32
NOV											
02...	.36	.53	<.020	1.51	.013	.146	.123	.170	3.5	.7	.35
DEC											
07...	.40	.63	.037	3.40	.021	.261	.229	.361	3.8	1.4	.27
JAN 2000											
06...	.22	.83	<.020	3.61	.010	.144	.125	.184	4.5	.7	.27
FEB											
02...	.27	1.2	.021	4.51	.014	.142	.103	.493	--	--	.25
MAR											
07...	.39	.71	<.020	3.83	.014	.105	.091	.209	--	--	.20
APR											
04...	.25	.43	<.020	3.14	<.010	.085	.081	.143	--	--	.19
MAY											
03...	.23	.37	<.020	1.78	.012	.025	.010	.046	--	--	.20
JUN											
07...	.47	.80	.111	2.11	.075	.176	.141	.223	--	--	.23
JUL											
06...	.34	.47	<.020	1.22	.013	.102	.082	.129	--	--	.26
AUG											
02...	.44	.99	<.020	<.050	<.010	.070	.038	.150	--	--	.30
SEP											
06...	.33	1.1	<.020	.163	<.010	.015	<.010	.115	--	--	.30

WATER-QUALITY DATA

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER, FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)
OCT 1999											
05...	33.1	236	232	E10	3	<.003	<.002	<.002	<.002	<.001	<.002
NOV											
02...	92.6	256	224	20	6	<.003	<.002	<.002	<.002	<.001	<.002
DEC											
07...	150	201	195	10	5	<.003	<.002	<.002	<.002	.006	<.002
JAN 2000											
06...	237	196	194	10	4	<.003	<.002	<.002	<.002	<.001	<.002
FEB											
02...	532	184	181	E10	5	<.003	<.002	<.002	<.002	.006	<.002
MAR											
07...	1210	149	132	20	5	<.003	<.002	<.002	<.002	<.010	<.002
APR											
04...	637	138	136	10	5	<.003	<.002	<.002	<.002	E.004	<.002
MAY											
03...	286	144	140	20	12	<.003	<.002	<.002	<.002	<.001	<.002
JUN											
07...	153	172	168	20	12	<.003	<.002	<.002	<.002	.007	<.002
JUL											
06...	73.0	189	189	E10	7	<.003	<.002	<.002	<.002	<.005	<.002
AUG											
02...	21.3	219	212	E10	4	<.003	<.002	<.002	<.002	<.001	<.002
SEP											
06...	31.5	220	214	<10	4	<.003	<.002	<.002	<.002	<.005	<.002

PALOUSE RIVER BASIN

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WATER-QUALITY DATA

DATE	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
OCT 1999											
05...	<.002	<.003	<.003	<.004	<.004	<.002	E.004	<.002	<.001	<.017	<.002
NOV											
02...	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017	<.002
DEC											
07...	<.002	<.003	<.003	<.004	<.004	<.002	E.003	<.002	<.001	<.017	<.002
JAN 2000											
06...	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017	<.002
FEB											
02...	<.002	<.003	<.003	<.004	<.004	<.002	E.003	<.002	<.001	<.017	<.002
MAR											
07...	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017	<.002
APR											
04...	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017	<.002
MAY											
03...	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017	<.010
JUN											
07...	<.002	E.014	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017	<.002
JUL											
06...	<.002	<.003	<.003	<.004	<.004	<.002	E.004	<.002	<.001	<.017	<.002
AUG											
02...	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017	<.002
SEP											
06...	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017	<.002

WATER-QUALITY DATA

DATE	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
OCT 1999											
05...	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004
NOV											
02...	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004
DEC											
07...	<.004	<.003	<.003	.015	<.002	<.005	<.001	<.006	<.002	<.004	<.004
JAN 2000											
06...	<.004	<.003	<.003	.005	<.002	<.005	<.001	<.006	<.002	<.004	<.004
FEB											
02...	<.004	<.003	<.003	.010	<.002	<.005	<.001	<.006	<.002	.007	<.004
MAR											
07...	<.004	<.003	<.003	.007	<.002	<.005	<.010	<.006	<.002	<.010	<.004
APR											
04...	<.004	<.003	<.003	E.002	<.002	<.005	<.001	<.006	<.002	.007	<.004
MAY											
03...	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.010	<.004
JUN											
07...	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	.019	<.004
JUL											
06...	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004
AUG											
02...	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004
SEP											
06...	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004

PALOUSE RIVER BASIN

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WATER-QUALITY DATA

DATE	NAPROP-AMIDE WATER FLTRD 0.7 U (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARATHION, DIS-SOLVED (UG/L) (39542)	PEBULATE WATER FLTRD 0.7 U (UG/L) (82669)	PENDIMETHALIN WAT FLT (UG/L) (82683)	PERMETHRIN CIS WAT FLT (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U (UG/L) (82679)
OCT 1999											
05...	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.004	<.003	<.007	<.004
NOV											
02...	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
DEC											
07...	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.006	<.003	<.007	<.004
JAN 2000											
06...	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
FEB											
02...	<.003	<.006	<.004	<.020	<.004	<.005	<.002	<.018	<.003	<.007	<.004
MAR											
07...	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
APR											
04...	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.004	<.003	<.007	<.004
MAY											
03...	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.005	<.003	<.007	<.004
JUN											
07...	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
JUL											
06...	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
AUG											
02...	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.004	<.003	<.007	<.004
SEP											
06...	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004

WATER-QUALITY DATA

DATE	PRO-PARGITE WATER FLTRD 0.7 U (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT (UG/L) (82661)	SEDI-SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT 1999										
05...	<.013	E.005	<.010	<.007	<.013	<.002	<.001	<.002	12	1.7
NOV										
02...	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	4	1.4
DEC										
07...	<.013	.010	<.010	<.007	<.013	<.002	.018	<.002	34	25
JAN 2000										
06...	<.013	<.005	<.010	<.007	<.013	<.002	.012	<.002	15	18
FEB										
02...	<.013	<.005	<.010	<.007	<.013	<.002	.020	<.002	267	771
MAR										
07...	<.013	<.005	<.010	<.007	<.013	<.002	.020	<.002	78	636
APR										
04...	<.013	E.004	<.010	<.007	<.013	<.002	.010	<.002	39	180
MAY										
03...	<.013	.024	<.010	<.007	<.013	<.002	.045	<.002	8	16
JUN										
07...	<.013	.010	<.010	<.007	<.013	<.002	.020	<.002	28	25
JUL										
06...	<.013	<.010	<.010	<.007	<.013	<.002	<.001	<.002	17	6.6
AUG										
02...	<.013	.006	<.010	<.007	<.013	<.002	<.001	<.002	16	1.6
SEP										
06...	<.013	<.010	<.010	<.007	<.013	<.002	<.001	<.002	24	3.4