

COLUMBIA RIVER MAIN STEM

12472900 COLUMBIA RIVER AT VERNITA BRIDGE, NEAR PRIEST RAPIDS DAM, WA
(National stream quality accounting network station)

LOCATION.--Lat 46°38'34", long 119°43'54", in NW 1/4 SE 1/4 sec.6, T.13 N., R.25 E., Grant County, Hydrologic Unit 17020016, at State Highway 24 Vernita Bridge crossing, 9.0 mi downstream from Priest Rapids Dam, and at mile 388.1.

DRAINAGE AREA.--96,000 mi², approximately.

PERIOD OF RECORD.--Water years 1962-63, 1972, 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July 1974 to September 1980.

REMARKS.--October 1971 to September 1972, at site 6.4 mi upstream, published as 12472800 "below Priest Rapids Dam." Prior to October 1971 published as 12472800 "at Vernita Ferry." Discharge determined by routing flows from the gaging station below Priest Rapids Dam (station 12472800) 6.4 miles upstream.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED SATUR-ATION (PER-CENT) (00301)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CAC03 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
DATE		SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CAC03) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT												
12...	1220	139000	125	8.0	15.8	1.0	10.2	103	57	5	16.5	3.71
NOV												
30...	1110	151000	125	7.9	10.1	.6	10.5	94	55	4	16.1	3.60
JAN												
26...	1210	143000	142	7.9	4.5	.7	13.2	102	65	6	18.3	4.56
MAR												
08...	1230	77500	150	8.1	4.7	.8	13.8	109	67	4	18.9	4.71
APR												
18...	1230	186000	146	8.2	7.9	.6	13.0	112	65	7	18.3	4.67
MAY												
09...	1230	190000	136	8.0	11.0	1.1	12.8	119	61	3	17.3	4.28
JUN												
01...	1220	130000	117	7.9	12.7	<.1	12.4	117	52	6	14.7	3.63
27...	1300	158000	115	8.2	16.0	3.0	10.9	113	51	5	14.4	3.60
JUL												
24...	1230	127000	120	8.2	18.5	1.4	10.8	116	54	4	15.4	3.90
SEP												
19...	1220	87000	128	8.0	18.8	<.5	9.2	99	59	7	16.8	4.09
OCT												
12...	1.8	6	.1	.7	63	0	52	8.4	.8	<.1	4.4	71
NOV												
30...	1.8	7	.1	.8	62	0	51	6.2	.8	<.1	4.6	73
JAN												
26...	2.1	6	.1	.7	71	0	58	7.6	1.1	<.1	5.6	82
MAR												
08...	2.1	6	.1	.7	76	0	62	9.3	1.0	<.1	5.3	82
APR												
18...	2.4	7	.1	.8	71	0	58	9.1	1.2	<.1	6.8	78
MAY												
09...	2.5	8	.1	.9	70	0	57	7.7	1.2	.1	8.2	85
JUN												
01...	2.3	9	.1	.7	56	0	46	6.8	1.1	<.1	7.7	75
27...	2.0	8	.1	.7	56	0	46	6.1	.9	<.1	6.0	67
JUL												
24...	2.1	8	.1	.6	61	0	50	6.6	.9	<.1	5.3	67
SEP												
19...	1.9	7	.1	.7	63	0	52	8.2	.9	<.1	4.4	72

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)
OCT 12...	68	.10	26600	.001	.088	.004	E.10	.10	.008	E.004	.001	<2.0
NOV 30...	65	.10	29800	.003	.096	<.002	E.10	<.10	.009	E.005	<.001	<2.0
JAN 26...	76	.11	31700	<.001	.154	<.002	E.10	<.10	E.006	<.006	.002	<2.0
MAR 08...	80	.11	17200	<.001	.157	.002	E.10	<.10	E.005	<.006	.001	<2.0
APR 18...	79	.11	39200	.001	.219	<.002	<.10	<.10	.050	<.006	<.001	E1.1
MAY 09...	77	.12	43600	.001	.115	.003	E.10	E.10	.009	<.006	<.001	<2.0
JUN 01...	65	.10	26300	<.001	.072	.003	.13	E.10	.009	<.006	<.001	<2.0
JUN 27...	61	.09	28600	.001	.040	<.002	E.10	E.10	E.006	<.006	<.001	<2.0
JUL 24...	65	.09	23000	.002	.049	.002	.11	E.10	E.006	<.006	.002	<2.0
SEP 19...	69	.10	16900	.001	.087	.011	.10	E.10	E.005	E.005	.006	<2.0

DATE	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	SELE- NIUM, DIS-SOLVED (UG/L AS SE) (01145)	STRON- TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS-SOLVED (UG/L AS V) (01085)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	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)	DEETHYL ATRA- ZINE, WATER, DISS, REC, (UG/L) (04040)
OCT 12...	<16	<10	E2.6	<2.4	97.2	<10	1.3	.3	<.003	<.002	<.002	<.002
NOV 30...	E9	<10	<3.9	<2.4	85.5	<10	1.2	.2	<.003	<.002	<.002	<.002
JAN 26...	<16	<10	<3.9	<2.4	89.0	<10	1.1	.2	<.003	<.002	<.002	<.002
MAR 08...	<16	<10	<3.9	<2.4	101	<10	1.1	.3	<.003	<.002	<.002	<.002
APR 18...	<16	<10	<3.9	<2.4	95.8	<10	1.5	.3	<.003	<.002	<.002	<.002
MAY 09...	<16	<10	<3.9	<2.4	82.5	<10	1.7	.3	<.003	<.002	<.002	<.002
JUN 01...	<16	E10	<3.9	<2.4	72.6	<10	1.9	<.2	<.003	<.002	<.002	<.002
JUN 27...	<16	<10	<3.9	<2.4	71.3	<10	1.6	.3	<.003	<.002	<.002	<.002
JUL 24...	<16	<10	<3.9	<2.4	81.3	<10	1.5	.3	<.003	<.002	<.002	<.002
SEP 19...	<16	<10	<3.9	<2.4	102	<10	1.3	.3	<.003	<.002	<.002	<.002

DATE	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, FLTRD 0.7 U GF, 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)	P,P' DDE DISSOLV (UG/L) (34653)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)
OCT 12...	<.001	<.006	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.002	<.002	<.001
NOV 30...	<.001	<.001	<.002	<.002	<.003	<.003	<.004	<.004	E.004	<.006	<.002	<.001
JAN 26...	<.001	<.001	<.002	<.002	<.003	<.003	<.004	<.004	E.002	<.006	<.002	<.001
MAR 08...	<.001	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.006	<.002	<.001
APR 18...	E.004	<.001	<.002	<.002	<.003	<.003	.005	<.004	<.002	<.006	<.002	<.001
MAY 09...	<.001	<.001	<.002	<.002	E.005	<.003	<.004	<.004	<.002	<.006	<.002	<.001
JUN 01...	<.001	E.007	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.006	<.002	<.001
JUN 27...	<.001	<.001	<.002	<.002	E.004	<.003	<.004	<.004	<.002	E.001	<.002	<.001
JUL 24...	<.001	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.006	<.002	<.001
SEP 19...	<.001	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.006	<.002	<.001

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	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-PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)
OCT 12...	<.017	<.002	<.004	<.003	<.003	<.002	<.004	<.002	<.005	<.006	<.002
NOV 30...	<.017	<.002	<.004	<.003	<.003	<.002	<.004	<.002	<.005	<.006	<.002
JAN 26...	<.017	<.002	<.004	<.003	<.003	<.002	<.004	<.002	<.005	<.006	<.002
MAR 08...	<.017	<.002	<.004	<.003	<.003	<.002	<.004	<.002	<.005	<.006	<.002
APR 18...	<.017	<.002	<.004	<.003	<.003	<.002	<.004	<.002	<.005	<.006	<.002
MAY 09...	<.017	<.002	<.004	<.003	<.003	<.002	<.004	<.002	<.005	<.006	<.002
JUN 01...	<.017	E.003	<.004	<.003	<.003	<.002	<.004	<.002	<.005	<.006	<.002
JUN 27...	<.017	<.002	<.004	<.003	<.003	<.002	<.004	<.002	.008	<.006	<.002
JUL 24...	<.017	<.002	<.004	<.003	<.003	<.002	<.004	<.002	<.005	<.006	<.002
SEP 19...	<.017	<.002	<.004	<.003	<.003	<.002	<.004	<.002	<.005	<.006	<.002

DATE	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)
OCT 12...	<.004	<.004	<.003	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007
NOV 30...	<.004	<.004	<.003	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007
JAN 26...	<.004	<.004	<.003	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007
MAR 08...	<.004	<.004	<.003	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007
APR 18...	<.004	<.004	<.003	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007
MAY 09...	<.004	<.004	<.003	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007
JUN 01...	<.004	<.004	<.003	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007
JUN 27...	<.004	<.004	<.003	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007
JUL 24...	<.004	<.004	<.003	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007
SEP 19...	<.004	<.004	<.003	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007

DATE	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT 12...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	2	751
NOV 30...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	2	815
JAN 26...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	1	386
MAR 08...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	1	209
APR 18...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	3	1510
MAY 09...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	3	1540
JUN 01...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	4	1400
JUN 27...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	2	853
JUL 24...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	2	686
SEP 19...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	2	470