



Figure 11. Schematic showing gaging stations in Spokane River basin

SPOKANE RIVER BASIN

12411000 NORTH FORK COEUR D'ALENE RIVER ABOVE SHOSHONE CREEK, NEAR PRICHARD, ID

LOCATION.--Lat 47°42'26", long 115°58'36", in NE 1/4 SE 1/4 SW 1/4 sec.5, T.50 N., R.4 E., Shoshone County, Prichard quad., Hydrologic Unit 17010301, in Idaho Panhandle National Forests, on left bank 0.1 mi downstream from Uranus Creek, 0.5 mi upstream from Shoshone Creek, 3.5 mi north of Prichard, and 200.0 mi upstream from mouth of Spokane River.

DRAINAGE AREA.--335 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1950 to current year. Prior to October 1991, published as Coeur d'Alene River above Shoshone Creek near Prichard, Idaho.

GAGE.--Water-stage recorder. Elevation of gage is 2,485 ft above NGVD of 1929, from river-profile map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. No regulation or diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,000 ft<sup>3</sup>/s Jan 15, 1974, gage height, 11.60 ft; minimum, 34 ft<sup>3</sup>/s Dec. 26, 1952, gage height, 0.69 ft; minimum gage height, 0.42 ft, Aug. 29 to Sept. 3, Sept. 26-29, Oct. 1, 5, 7, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges above a base discharge of 3,600 ft<sup>3</sup>/s and maximum (\*):

Table with 8 columns: Date, Time, Discharge (ft³/s), Gage height (ft), Date, Time, Discharge (ft³/s), Gage height (ft). Shows data for Feb 1 1030 and Mar 23 0745.

Minimum daily, 61 ft<sup>3</sup>/s Sept. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

Large table with 13 columns (DAY, OCT, NOV, DEC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP) showing daily mean discharge values from Oct 1 to Sep 31 for water years 2002 and 2003.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2003, BY WATER YEAR (WY)

Table with 13 columns showing monthly mean data statistics for water years 1951-2003, including MEAN, MAX, (WY), MIN, and (WY) for each month.

Summary statistics table with 4 columns: SUMMARY STATISTICS, FOR 2002 CALENDAR YEAR, FOR 2003 WATER YEAR, WATER YEARS 1951 - 2003. Includes annual totals, means, and exceedances.

e Estimated

SPOKANE RIVER BASIN

12411935 PRICHARD CREEK AT MOUTH AT PRICHARD, ID

LOCATION.--Lat 47°39'24", long 115°58'04", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.29, T.50 N., R.4 E., Shoshone County, Prichard quad., Hydrologic Unit 17010301, on left bank at upstream side of county bridge, 1,000 ft upstream from mouth, 400 ft northeast of Prichard, and 193.3 mi upstream from mouth of Spokane River.

PERIOD OF RECORD.--October 1998 to September 2002 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 2,420 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good Oct. 1 to Apr. 13, fair Apr. 15 to Sept. 30 and poor Apr. 14. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,690 ft<sup>3</sup>/s Apr. 14, 2002; minimum daily, 12 ft<sup>3</sup>/s Sept. 19-30, Oct. 1, 2, 7, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,690 ft<sup>3</sup>/s Apr. 14; minimum daily, 12 ft<sup>3</sup>/s Oct. 1, 2, 7.

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	12	119	68	46	107	254	278	534	1260	222	49	28
2	12	105	70	44	99	218	322	608	1090	194	47	27
3	13	83	70	43	94	196	327	694	997	176	46	26
4	13	69	67	42	89	183	323	635	934	161	45	25
5	13	61	64	41	85	175	358	522	935	149	45	24
6	13	55	62	42	83	169	495	423	915	138	45	24
7	12	50	58	144	85	155	631	345	743	129	45	25
8	13	47	55	1160	88	141	724	287	599	134	44	24
9	13	44	53	1130	83	135	687	247	505	127	43	25
10	13	41	51	684	79	129	686	220	447	115	41	24
11	14	39	50	471	77	169	956	206	414	108	39	24
12	15	37	48	391	75	376	1050	224	413	103	38	23
13	16	35	53	349	73	394	1620	362	488	99	37	22
14	18	39	76	298	72	331	3690	721	621	94	36	21
15	18	40	83	253	71	284	2050	644	718	90	34	20
16	18	53	88	217	70	249	1110	523	745	86	33	20
17	20	64	98	193	71	218	703	517	679	82	33	21
18	20	71	108	174	75	198	517	552	583	79	32	20
19	20	74	106	163	79	190	438	866	530	75	32	21
20	20	73	97	156	84	203	414	1760	455	73	31	22
21	19	78	88	145	88	171	427	1470	412	69	34	21
22	21	85	80	138	427	161	477	2000	417	66	34	21
23	24	96	72	124	1140	163	476	1630	434	65	36	20
24	24	104	64	129	799	169	422	1080	410	62	37	20
25	29	102	57	181	572	170	380	804	367	60	36	20
26	31	94	51	204	431	177	363	828	334	58	35	19
27	31	85	48	171	348	208	358	1220	316	56	33	19
28	34	79	50	143	298	232	341	1490	295	55	32	19
29	42	76	51	127	---	231	342	1550	293	53	31	19
30	53	70	50	123	---	227	439	1490	255	51	30	19
31	94	---	48	115	---	236	---	1350	---	50	28	---
TOTAL	708	2068	2084	7641	5742	6512	21404	25802	17604	3079	1161	663
MEAN	22.84	68.93	67.23	246.5	205.1	210.1	713.5	832.3	586.8	99.32	37.45	22.10
MAX	94	119	108	1160	1140	394	3690	2000	1260	222	49	28
MIN	12	35	48	41	70	129	278	206	255	50	28	19
AC-FT	1400	4100	4130	15160	11390	12920	42450	51180	34920	6110	2300	1320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
MEAN	21.96	67.42	104.8	137.3	121.2	243.8	572.6	598.0	359.0	80.04	31.27	20.02
MAX	24.2	131	211	246	205	397	826	832	587	116	40.8	22.5
(WY)	2000	2000	2000	2002	2002	1999	2000	2002	2002	1999	1999	2000
MIN	17.8	18.5	15.3	15.9	15.8	86.3	273	455	145	45.5	20.6	13.1
(WY)	1999	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1999 - 2002	
ANNUAL TOTAL	37559		94468			
ANNUAL MEAN	102.9		258.8		196.4	
HIGHEST ANNUAL MEAN					259	
LOWEST ANNUAL MEAN					94.4	
HIGHEST DAILY MEAN	1220		3690		3690	
LOWEST DAILY MEAN	12		12		12	
ANNUAL SEVEN-DAY MINIMUM	12		13		12	
ANNUAL RUNOFF (AC-FT)	74500		187400		142300	
10 PERCENT EXCEEDS	248		690		521	
50 PERCENT EXCEEDS	43		90		80	
90 PERCENT EXCEEDS	15		21		16	

## SPOKANE RIVER BASIN

## 12413000 NORTH FORK COEUR D'ALENE RIVER AT ENAVILLE, ID

LOCATION.--Lat 47°34'08", long 116°15'06", in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.30, T.49 N., R.2 E., Shoshone County, Cataldo quad., Hydrologic Unit 17010301, on left bank 200 ft downstream from county road bridge, 0.9 mi upstream from South Fork, 3.7 mi downstream from Little North Fork, and 168.7 mi upstream from mouth of Spokane River.

DRAINAGE AREA.--895 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1911 to April 1913 (fragmentary), October 1939 to September 1991 (published as Coeur d'Alene River at Enaville), October 1991 to current year.

REVISED RECORDS.--WSP 1396: 1945.

GAGE.--Water-stage recorder. Gage readings have been reduced to datum of gage at 2,100.00 ft above NGVD of 1929. National Geodetic Survey adjustment in 1991 found datum to be 3.71 ft higher. Mar. 3, 1911 to Apr. 12, 1913, nonrecording gage at approximately same location at different datum. Oct. 18 to Dec. 22, 1939, nonrecording gage 0.2 mi upstream at datum 2.60 ft higher. Dec. 23, 1939 to Sept. 30, 1990, 0.2 mi upstream at datum 2.60 ft higher.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 61,000 ft<sup>3</sup>/s Jan. 16, 1974, gage height, 81.32 ft, site and datum then in use; minimum, 95 ft<sup>3</sup>/s Nov. 30, 1979, gage height, 60.95 ft, site and datum then in use; minimum gage height, 60.10 ft, Dec. 26, 1952, site and datum then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1933 reached a stage of 79.47 ft, datum then in use, and a flood in April 1938 reached a stage of 78.16 ft, datum then in use, from local information concerning high-water marks.

EXTREMES FOR CURRENT YEAR.--Peak discharges above a base discharge of 8,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jan. 27	1300	8,650	65.07	Feb. 1	1215	*18,000	*69.30
				Mar. 23	1545	15,800	68.46

Minimum daily, 164 ft<sup>3</sup>/s Sept. 6, 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	172	245	619	16400	1220	5070	2310	1690	461	234	171
2	279	195	237	615	11300	1140	5660	2250	1540	448	231	170
3	266	208	233	868	7060	1090	5100	2300	1400	436	249	169
4	261	211	233	1240	5110	1050	4470	2370	1290	425	277	168
5	265	210	230	1330	3980	1010	3980	2380	1200	416	282	167
6	259	218	227	1380	3240	1000	3580	2260	1140	411	283	164
7	252	223	224	1280	2730	963	3190	2110	1090	402	272	164
8	247	253	222	1110	2400	904	2910	1970	1050	402	254	177
9	241	365	220	948	2140	887	2940	1850	1030	395	245	228
10	237	430	220	767	1940	983	3260	1740	996	379	235	260
11	237	415	240	654	1750	1100	3790	1670	1010	367	226	245
12	234	352	250	793	1610	1960	4320	1700	947	356	221	238
13	232	380	333	881	1500	3210	4520	1880	892	346	216	218
14	232	448	586	883	1430	4480	4550	1960	869	340	212	204
15	232	431	1240	941	1340	5620	4420	2070	809	334	208	196
16	231	367	1460	940	1350	6100	4030	2070	756	336	206	195
17	229	319	1390	899	1510	6120	3690	1920	720	329	206	219
18	229	292	1140	848	1480	5400	3490	1790	688	318	205	238
19	228	318	903	802	1420	4580	3140	1650	664	309	201	234
20	226	393	726	758	1480	4050	2930	1510	664	300	195	218
21	226	398	596	716	1740	3690	2850	1440	658	296	192	208
22	223	368	514	693	1880	5360	3040	1380	655	290	191	201
23	220	364	485	736	1810	14000	3420	1350	636	283	196	196
24	218	384	435	760	1570	10800	3570	1470	604	276	196	191
25	216	365	394	897	1480	7250	3580	1990	587	271	193	189
26	214	312	379	2640	1470	5900	3440	2260	552	265	187	185
27	213	294	403	7970	1410	5090	3060	1970	523	259	182	182
28	216	268	497	6350	1310	4390	2700	1790	503	253	179	179
29	235	257	582	4690	---	3890	2480	1800	489	248	177	177
30	224	254	633	4180	---	3520	2370	1790	475	243	175	176
31	186	---	613	6250	---	3660	---	1780	---	238	173	---
TOTAL	7291	9464	16090	54438	83840	120417	109550	58780	26127	10432	6699	5927
MEAN	235	315	519	1756	2994	3884	3652	1896	871	337	216	198
MAX	283	448	1460	7970	16400	14000	5660	2380	1690	461	283	260
MIN	186	172	220	615	1310	887	2370	1350	475	238	173	164
AC-FT	14460	18770	31910	108000	166300	238800	217300	116600	51820	20690	13290	11760
CFSM	0.26	0.35	0.58	1.96	3.35	4.34	4.08	2.12	0.97	0.38	0.24	0.22
IN.	0.30	0.39	0.67	2.26	3.48	5.01	4.55	2.44	1.09	0.43	0.28	0.25

## SPOKANE RIVER BASIN

## 12413000 NORTH FORK COEUR D'ALENE RIVER AT ENAVILLE, ID--Continued

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2003, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	382	955	1503	1469	2078	2637	5366	5108	1957	660	349	293
MAX	1210	3974	5121	6929	7760	8025	9884	10370	5369	1227	608	526
(WY)	1952	1996	1965	1974	1996	1972	1943	1997	1974	1971	1948	1968
MIN	188	197	210	209	216	573	1924	1248	551	295	183	167
(WY)	1945	1953	2001	1979	2001	1955	1941	1992	1992	1940	1994	2001

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR			FOR 2003 WATER YEAR			WATER YEARS 1911 - 2003		
ANNUAL TOTAL	882605			509055					
ANNUAL MEAN	2418			1395			1894		
HIGHEST ANNUAL MEAN							3281		
LOWEST ANNUAL MEAN							599		
HIGHEST DAILY MEAN	26500			Apr 15			16400		
LOWEST DAILY MEAN	172			Nov 1			164		
ANNUAL SEVEN-DAY MINIMUM	200			Oct 31			168		
ANNUAL RUNOFF (AC-FT)	1751000			1010000			1372000		
ANNUAL RUNOFF (CFSM)	2.70			1.56			2.12		
ANNUAL RUNOFF (INCHES)	36.68			21.16			28.75		
10 PERCENT EXCEEDS	7330			3730			5030		
50 PERCENT EXCEEDS	883			604			843		
90 PERCENT EXCEEDS	237			205			248		

SPOKANE RIVER BASIN  
12413000 NORTH FORK COEUR D'ALENE RIVER AT ENAVILLE, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972-73, 1975-1980, 1990, October 1992 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May to September 1998, May to September 1999, May to September 2000, May to September 2001 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 21.9 °C July 27, 1998.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unfiltered, uS/cm 25 degC (00095)	pH, water, unfiltered, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfiltered, mg/L as CaCO3 (00900)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Ammonia, water, filtered, mg/L as N (00608)	Ammonia + org-N, water, unfiltered, mg/L as N (00625)	Nitrite + nitrate, water, filtered, mg/L as N (00631)	Phosphorus, water, filtered, mg/L (00666)	
OCT	29...	0810	237	48	6.8	-1.0	5.7	21	5.0	2.0	<.015	<.1	<.022	E.003
DEC	09...	0855	221	48	6.7	1.0	4.8	21	5.0	2.0	<.015	<.1	<.022	<.004
FEB	03...	0855	7330	30	6.6	2.0	3.0	12	3.0	1.2	<.015	E.08	.027	.007
MAY	29...	1215	1820	36	7.0	25.5	12.9	17	4.10	1.54	<.015	<.1	<.022	E.002
JUN	23...	0830	644	45	7.1	9.0	11.0	20	4.90	1.92	<.015	E.05	<.022	E.002
AUG	14...	0910	214	51	7.4	14.0	16.0	24	5.80	2.20	<.015	<.1	<.022	E.003

Date	Phosphorus, water, unfiltered, mg/L (00665)	Cadmium, water, filtered, ug/L (01025)	Cadmium, water, unfiltered, ug/L (01027)	Iron, water, unfiltered, recoverable, ug/L (01045)	Iron, water, filtered, ug/L (01046)	Lead, water, filtered, ug/L (01049)	Lead, water, unfiltered, recoverable, ug/L (01051)	Manganese, water, unfiltered, recoverable, ug/L (01055)	Manganese, water, filtered, ug/L (01056)	Zinc, water, filtered, ug/L (01090)	Zinc, water, unfiltered, recoverable, ug/L (01092)	
OCT	29...	E.002	E.026	<.035	E13.5	E5	.32	.17	1.23	.97	6.4	4.5
DEC	09...	<.004	<.037	<.035	<16	<10	.14	E.05	.72	.62	3.5	4.1
FEB	03...	.018	E.019	<.035	222	14	.13	1.44	8.60	1.02	5.1	7.7
MAY	29...	E.003	E.027	E.022	30.7	E7.4	.14	.21	1.58	1.01	6.7	7.0
JUN	23...	E.003	E.018	E.018	14	<8	<.08	.09	1.02	.61	4.2	4.2
AUG	14...	.005	<.037	<.035	15	E7.5	E.06	.08	1.22	1.10	4.5	3.0

< Less than  
E Estimated value

SPOKANE RIVER BASIN

12413125 CANYON CREEK ABOVE MOUTH AT WALLACE, ID

LOCATION.--Lat 47°28'24", long 115°54'50", in NW¼NE¼NW¼ sec.35, T.48 N., R.4 E., Shoshone County, Wallace quad., Hydrologic Unit 17010302, on left bank under freeway overpass, 65 ft upstream from mouth of South Fork Coeur d'Alene River, 187 mi upstream from mouth of Spokane River, and 0.5 mi east of Wallace Post Office.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1998 to September 2003 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 2,760 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 574 ft³/s May 25, 1999, gage height, 21.43 ft; minimum daily, 8.3 ft³/s Dec. 12, 2000, Jan. 27, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 351 ft³/s May 25, gage height, 20.76 ft; minimum daily, 9.8 ft³/s Oct. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	11	11	14	121	18	82	89	193	32	18	14
2	14	12	11	14	89	18	82	90	161	31	18	14
3	14	12	11	18	68	18	77	96	143	31	20	13
4	14	12	11	17	57	17	72	99	135	29	19	13
5	14	13	11	19	47	17	68	97	128	29	18	13
6	13	12	11	17	42	17	63	91	125	28	20	13
7	13	12	11	16	38	17	58	87	122	28	18	13
8	13	16	11	15	35	17	57	81	121	28	18	15
9	13	14	10	13	32	17	62	77	118	27	17	16
10	13	14	11	11	30	19	68	74	114	26	17	14
11	12	13	11	15	28	22	83	74	102	26	17	15
12	12	14	11	14	27	26	90	79	88	25	16	15
13	12	15	15	15	26	31	95	85	81	24	16	14
14	12	14	21	14	25	47	101	100	76	24	16	13
15	12	13	24	13	24	54	98	125	71	23	16	13
16	12	13	24	13	25	59	90	121	66	23	16	14
17	12	13	19	12	26	56	88	111	63	23	16	15
18	12	12	16	12	24	51	84	97	61	22	15	14
19	12	13	14	12	23	48	79	88	60	22	15	13
20	12	14	13	12	23	48	76	84	58	22	15	13
21	12	13	13	12	24	48	81	82	54	21	15	13
22	12	14	12	12	24	71	95	82	51	21	15	13
23	12	15	12	14	21	101	114	92	47	21	15	13
24	12	14	12	13	19	84	117	140	45	20	15	12
25	12	12	11	14	23	75	128	283	42	20	15	12
26	11	12	12	27	22	70	127	272	39	20	14	12
27	11	12	15	34	21	63	114	222	38	20	14	12
28	12	12	14	31	19	57	102	239	36	19	14	12
29	12	12	19	28	---	54	96	299	35	19	14	12
30	9.8	11	15	29	---	54	93	276	33	19	14	12
31	10	---	16	55	---	64	---	231	---	18	14	---
TOTAL	380.8	389	428	555	983	1358	2640	4063	2506	741	500	400
MEAN	12.3	13.0	13.8	17.9	35.1	43.8	88.0	131	83.5	23.9	16.1	13.3
MAX	14	16	24	55	121	101	128	299	193	32	20	16
MIN	9.8	11	10	11	19	17	57	74	33	18	14	12
AC-FT	755	772	849	1100	1950	2690	5240	8060	4970	1470	992	793

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2003, BY WATER YEAR (WY)

	1999	2000	2001	2002	2003	1999	2000	2001	2002	2003	1999	2001	2002	2003
MEAN	14.0	17.4	18.3	19.0	21.8	34.0	88.5	158	136	46.5	20.7	14.7		
MAX	16.1	26.3	28.1	25.0	35.1	50.7	141	203	225	85.9	29.7	17.1		
(WY)	2000	2000	2000	2002	2003	1999	2000	2002	2002	1999	1999	1999		
MIN	12.3	12.1	11.0	10.1	10.3	17.2	41.0	131	67.4	23.9	15.8	12.1		
(WY)	2003	2001	2001	2001	2001	2001	2001	2003	2001	2003	2001	2001		

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR
ANNUAL TOTAL	22162.8	14943.8						
ANNUAL MEAN	60.7	40.9						
HIGHEST ANNUAL MEAN							49.2	
LOWEST ANNUAL MEAN							61.5	2002
HIGHEST DAILY MEAN	514	299	May 29	May 29			31.4	2001
LOWEST DAILY MEAN	9.8	9.8	Oct 30	Oct 30			8.3	May 29 2002
ANNUAL SEVEN-DAY MINIMUM	11	11	Dec 3	Dec 3			9.3	Dec 12 2000
ANNUAL RUNOFF (AC-FT)	43960	29640						Jan 22 2001
10 PERCENT EXCEEDS	179	96						
50 PERCENT EXCEEDS	23	19						
90 PERCENT EXCEEDS	12	12						

## SPOKANE RIVER BASIN

12413125 CANYON CREEK ABOVE MOUTH AT WALLACE, ID--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to October 1972, October 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instan- taneous dis- charge, cfs (00061)	Specif. conduc- tance, wat un- f 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Phos- phorus, water, fltrd, mg/L (00666)	
OCT	29...	1045	12	119	7.0	-1.5	2.5	51	14	3.7	<.015	<.1	<.022	<.004
DEC	09...	1130	11	128	7.3	2.0	.5	52	15	3.8	<.015	<.1	E.013	<.004
FEB	04...	0800	60	66	7.2	.0	1.9	24	6.7	1.8	<.015	E.05	.077	.004
MAY	13...	1000	86	53	6.9	6.1	11.5	20	5.5	1.5	<.015	<.1	<.022	E.003
	27...	1245	215	28	6.9	23.0	9.6	11	3.19	.798	<.015	<.1	<.022	E.002
JUN	23...	1215	49	61	7.0	14.0	10.7	26	7.17	1.86	<.015	E.06	<.022	<.004
AUG	14...	1135	16	116	7.2	25.0	16.0	47	12.9	3.68	<.015	<.1	<.022	E.002

Date	Phos- phorus, water, unfltrd mg/L (00665)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Iron, water, unfltrd recover- able, ug/L (01045)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover- able, ug/L (01051)	Mangan- ese, water, unfltrd recover- able, ug/L (01055)	Mangan- ese, water, fltrd, ug/L (01056)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	
OCT	29...	<.004	15.0	14.5	51.0	18	14.6	21.4	68.8	69.5	2310	2340
DEC	09...	E.002	15.9	15.4	37.7	E8	14.0	18.1	61.6	62.7	2450	2510
FEB	04...	.005	13.0	12.9	67.6	14	13.9	25.3	38.1	39.0	2110	1980
MAY	13...	E.004	6.37	6.38	59.7	21	10.6	18.0	44.7	51.3	958	942
	27...	.005	3.80	3.89	110	19.8	10.6	33.4	37.2	32.4	488	536
JUN	23...	E.002	6.94	6.97	56	25.3	12.2	19.1	41.7	41.6	991	960
AUG	14...	.006	13.5	14.0	42	20.0	18.3	25.8	54.3	60.3	--	1830

&lt; Less than

E Estimated value



SPOKANE RIVER BASIN

12413130 NINEMILE CREEK ABOVE MOUTH AT WALLACE, ID

LOCATION.--Lat 47°28'46", long 115°55'10", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.26, T.48 N., R.4 E., Shoshone County, Wallace quad., Hydrologic Unit 17010302, on left bank 0.45 mi upstream from mouth at South Fork Coeur d'Alene River, and 0.55 mi northeast of Wallace Post Office.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1998 to September 2003 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 2,790 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 245 ft<sup>3</sup>/s Apr. 14, 2002; minimum daily, 2.0 ft<sup>3</sup>/s Dec. 12, 2000, Jan. 15-18, 27-28, Feb. 19, 20, 27, 28, Sept. 24, 25, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 45 ft<sup>3</sup>/s May 26; minimum daily, 2.4 ft<sup>3</sup>/s Oct. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	e2.6	2.9	4.5	38	6.2	33	28	37	6.8	5.9	3.1
2	3.0	e2.8	2.9	4.5	33	6.1	35	28	36	6.6	5.7	3.1
3	3.0	e3.1	2.9	6.0	27	6.0	33	29	33	6.6	6.5	3.1
4	3.1	e3.2	2.9	5.5	22	5.9	31	29	31	6.5	5.8	3.1
5	3.2	e3.2	2.9	6.5	18	5.8	29	29	28	6.5	5.5	3.0
6	3.0	3.3	2.9	5.7	15	5.7	27	27	27	6.5	6.3	3.0
7	2.9	3.2	2.9	5.1	13	5.6	25	25	27	6.4	5.3	3.1
8	2.9	4.3	2.9	4.8	12	5.2	25	24	24	6.8	5.1	3.7
9	2.9	4.1	2.8	e4.2	10	5.6	27	23	25	6.3	4.8	4.2
10	2.8	4.3	2.9	e3.8	9.2	6.0	28	21	23	6.1	4.5	3.5
11	2.8	3.9	3.0	e4.1	8.3	7.1	33	21	21	6.1	4.2	3.7
12	2.7	4.0	2.9	4.3	7.8	9.1	38	22	19	6.0	4.1	3.8
13	2.7	4.3	4.5	4.9	7.5	13	40	23	19	5.8	3.8	3.5
14	2.7	4.1	7.0	4.6	7.3	22	41	25	18	5.9	3.8	3.6
15	2.7	3.7	8.1	4.3	6.9	28	39	28	16	5.9	3.7	3.5
16	2.7	3.5	7.8	4.0	7.5	32	36	28	14	5.9	3.8	3.6
17	2.7	3.5	6.2	e3.8	7.7	32	35	27	14	5.7	3.7	4.1
18	2.7	3.3	5.1	3.7	7.2	30	34	25	12	5.7	3.6	4.1
19	2.7	3.6	4.3	3.7	6.9	28	31	23	12	5.7	3.6	3.8
20	2.7	3.8	4.0	3.6	7.3	26	30	21	12	5.6	3.5	3.8
21	2.7	3.6	e3.8	3.6	7.9	25	31	20	11	5.6	3.4	3.8
22	2.6	3.9	3.6	3.6	8.0	32	35	20	10	5.8	3.6	3.8
23	2.5	4.4	3.3	4.2	e7.5	38	37	21	9.2	5.8	3.6	3.8
24	2.5	3.8	3.2	3.9	e7.0	40	37	28	9.3	5.7	3.4	3.8
25	2.5	e3.3	3.1	4.3	e7.5	38	38	44	9.2	5.7	3.4	3.9
26	2.5	e3.0	3.2	10	e7.5	36	36	45	8.3	5.9	3.3	3.9
27	2.5	e2.9	4.3	10	7.1	33	33	41	7.8	5.9	3.3	3.8
28	2.8	e2.9	4.2	9.5	6.6	30	31	41	7.6	5.8	3.2	3.9
29	2.7	3.0	5.9	8.9	---	28	29	42	7.2	5.8	3.2	3.9
30	e2.5	3.0	4.7	11	---	28	29	42	7.0	5.9	3.1	3.8
31	e2.4	---	4.9	23	---	30	---	39	---	5.7	3.1	---
TOTAL	85.1	105.6	126.0	183.6	330.7	643.3	986	889	534.6	187.0	129.8	108.8
MEAN	2.75	3.52	4.06	5.92	11.8	20.8	32.9	28.7	17.8	6.03	4.19	3.63
MAX	3.2	4.4	8.1	23	38	40	41	45	37	6.8	6.5	4.2
MIN	2.4	2.6	2.8	3.6	6.6	5.2	25	20	7.0	5.6	3.1	3.0
AC-FT	169	209	250	364	656	1280	1960	1760	1060	371	257	216

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2003, BY WATER YEAR (WY)

	1999	2000	2001	2002	2003
MEAN	3.64	4.76	6.12	6.69	8.73
MAX	4.62	7.58	11.3	10.0	11.8
(WY)	2000	2000	2000	1999	2003
MIN	2.75	3.29	2.78	2.62	2.49
(WY)	2003	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1999 - 2003
ANNUAL TOTAL	8686.0	4309.5	
ANNUAL MEAN	23.8	11.8	16.0
HIGHEST ANNUAL MEAN			24.0
LOWEST ANNUAL MEAN			7.96
HIGHEST DAILY MEAN	245	Apr 14	245
LOWEST DAILY MEAN	2.4	Oct 31	2.0
ANNUAL SEVEN-DAY MINIMUM	2.5	Oct 21	2.3
ANNUAL RUNOFF (AC-FT)	17230	8550	11610
10 PERCENT EXCEEDS	67	32	39
50 PERCENT EXCEEDS	6.7	5.8	7.0
90 PERCENT EXCEEDS	2.9	2.9	3.0

e Estimated

## SPOKANE RIVER BASIN

12413130 NINEMILE CREEK ABOVE MOUTH AT WALLACE, ID--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to October 1972, October 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L (00666)
OCT													
29...	1230	2.7	135	7.0	-1.0	2.4	56	16	4.0	<.015	<.1	.072	E.002
DEC													
09...	1320	3.4	155	7.3	1.5	.9	61	17	4.4	<.015	.1	.106	<.004
FEB													
03...	1430	26	128	6.8	3.5	3.0	53	15	4.0	<.015	E.07	.178	.006
MAY													
13...	1200	23	85	7.2	18.0	8.5	33	9.0	2.6	<.015	<.1	<.022	.004
27...	1450	40	43	6.8	24.0	13.4	18	5.10	1.22	<.015	E.07	E.020	.004
JUN													
23...	1445	8.9	86	7.3	20.0	13.0	36	10.1	2.57	E.008	E.05	E.011	E.003
AUG													
14...	1410	3.6	125	7.4	36.0	19.9	51	14.1	3.76	<.015	E.06	<.022	E.003

Date	Phosphorus, water, unfltrd mg/L (00665)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Iron, water, unfltrd recover-able, ug/L (01045)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover-able, ug/L (01051)	Manganese, water, unfltrd recover-able, ug/L (01055)	Manganese, water, fltrd, ug/L (01056)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover-able, ug/L (01092)
OCT											
29...	<.004	14.1	14.1	E10.5	E8	14.2	18.7	20.8	21.1	2160	2190
DEC											
09...	.008	19.0	18.8	E14.9	<10	16.4	20.6	22.2	22.1	3080	3200
FEB											
03...	.011	17.0	17.4	55.8	12	32.4	50.3	28.3	26.8	2740	2680
MAY											
13...	.008	8.71	8.67	17.8	<10	22.7	31.2	11.0	12.7	1220	1260
27...	.013	5.67	6.01	74.0	E5.5	18.2	56.7	14.2	9.13	848	847
JUN											
23...	.006	10.4	10.8	17	E5.1	20.9	28.6	14.1	13.4	1360	1470
AUG											
14...	.007	14.2	14.7	24	E6.5	17.8	26.6	14.9	14.5	1550	1550

< Less than  
E Estimated value

SPOKANE RIVER BASIN

12413210 SOUTH FORK COEUR D'ALENE RIVER AT ELIZABETH PARK, NEAR KELLOGG, ID

LOCATION.--Lat 47°31'53", long 116°05'30", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.4, T.48 N., R.3 E., Shoshone County, Kellogg East quad., Hydrologic Unit 17010302, on left bank 5 ft downstream from county road bridge at Elizabeth Park, 0.1 mi downstream from Montgomery Creek, 1.5 mi downstream from Elk Creek School, 1.5 mi upstream from Kellogg, and at mile 9.1

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1987 to February 1991, May 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,300.00 ft above NGVD of 1929 (Idaho Department of Highways bench mark).

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,600 ft<sup>3</sup>/s Feb. 9, 1996, gage height, 35.50 ft; minimum daily, 36 ft<sup>3</sup>/s Nov. 24, 1993.

EXTREMES FOR CURRENT YEAR.--Peak discharges above a base discharge of 1,600 ft<sup>3</sup>/s and maximum(\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 1	0515	*1,710	*28.64	No other peak greater than base discharge.			

Minimum, 49 ft<sup>3</sup>/s Oct. 31, gage height, 23.74 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	66	69	124	1430	161	779	512	801	167	85	65
2	77	69	68	119	908	156	773	512	715	163	85	64
3	77	69	68	167	637	155	692	539	635	156	99	64
4	77	70	67	163	482	149	621	560	583	152	94	63
5	81	70	67	178	401	148	567	549	542	149	89	62
6	78	71	67	162	346	147	517	522	515	147	99	62
7	76	71	66	144	307	145	473	490	499	141	89	64
8	74	92	65	129	281	137	449	455	486	147	86	71
9	73	90	65	117	257	146	476	429	467	140	84	83
10	73	91	66	103	237	167	500	410	449	138	81	73
11	73	86	71	106	219	206	599	408	423	132	79	72
12	72	86	69	106	206	329	686	435	388	126	79	75
13	72	97	95	120	198	422	728	461	374	123	77	70
14	72	90	165	117	190	590	762	531	351	122	76	69
15	72	83	219	115	181	657	726	649	327	119	74	67
16	72	78	199	110	192	674	661	627	304	117	75	69
17	72	80	167	105	202	631	632	563	290	113	75	76
18	72	76	129	102	195	548	606	509	280	110	73	75
19	71	79	110	100	189	485	547	455	275	107	71	70
20	71	80	99	97	197	454	520	425	279	104	71	68
21	70	78	92	97	215	425	530	408	260	103	71	67
22	70	82	88	97	235	854	609	404	246	100	71	66
23	70	92	84	114	221	1330	704	452	231	98	73	65
24	70	88	81	110	193	1020	726	659	223	97	72	64
25	70	79	78	117	194	834	770	1110	211	96	70	64
26	71	76	78	295	192	743	735	1070	198	94	69	63
27	70	73	104	459	182	648	652	955	191	92	67	62
28	72	72	111	351	170	575	585	956	185	91	68	62
29	76	71	145	290	---	522	551	1030	179	89	68	61
30	65	70	125	311	---	490	537	992	173	87	67	60
31	62	---	133	672	---	581	---	909	---	85	66	---
TOTAL	2249	2375	3110	5397	8857	14529	18713	18986	11080	3705	2403	2016
MEAN	72.5	79.2	100	174	316	469	624	612	369	120	77.5	67.2
MAX	81	97	219	672	1430	1330	779	1110	801	167	99	83
MIN	62	66	65	97	170	137	449	404	173	85	66	60
AC-FT	4460	4710	6170	10700	17570	28820	37120	37660	21980	7350	4770	4000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2003, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	83.3	162	200	215	311	398	732	886	581	202	102	76.7					
MAX	153	580	865	513	1307	722	1135	2026	1230	393	147	104					
(WY)	1996	1996	1996	1997	1996	1995	2000	1997	2002	1999	1999	1997					
MIN	53.2	54.6	57.0	55.8	58.4	131	262	459	189	97.6	61.6	52.7					
(WY)	1988	1988	2001	2001	2001	2001	2001	1994	1992	1994	1994	1994					

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1987 - 2003
ANNUAL TOTAL	153200	93420	
ANNUAL MEAN	420	256	325
HIGHEST ANNUAL MEAN			564
LOWEST ANNUAL MEAN			153
HIGHEST DAILY MEAN	2890	1430	7400
LOWEST DAILY MEAN	62	60	36
ANNUAL SEVEN-DAY MINIMUM	66	62	45
ANNUAL RUNOFF (AC-FT)	303900	185300	235100
10 PERCENT EXCEEDS	1110	636	800
50 PERCENT EXCEEDS	167	124	157
90 PERCENT EXCEEDS	72	69	67

## SPOKANE RIVER BASIN

12413210 SOUTH FORK COEUR D'ALENE RIVER AT ELIZABETH PARK NEAR KELLOGG, ID--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1992 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf, uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Ammonia, water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L (00666)
OCT 30...	0800	60	158	7.0	-9.0	1.5	64	17	5.3	E.014	E.07	.171	<.004
DEC 10...	0800	74	162	7.3	.0	3.0	64	17	5.3	.023	.1	.202	<.004
FEB 05...	0800	410	108	7.3	.5	3.0	42	11	3.5	<.015	.3	.145	.004
MAY 28...	0905	952	55	7.1	21.5	7.3	24	6.61	1.84	<.015	<.1	E.020	E.002
JUN 24...	0930	225	101	7.1	18.0	8.9	43	11.5	3.38	<.015	<.1	.039	<.004
AUG 18...	0855	74	151	7.7	17.0	13.7	61	16.0	5.20	<.015	E.08	.039	<.004

Date	Phosphorus, water, unfltrd mg/L (00665)	Cadmium, water, fltrd, ug/L (01025)	Cadmium, water, unfltrd, ug/L (01027)	Iron, water, unfltrd recover-able, ug/L (01045)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover-able, ug/L (01051)	Manganese, water, unfltrd recover-able, ug/L (01055)	Manganese, water, fltrd, ug/L (01056)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover-able, ug/L (01092)
OCT 30...	<.004	6.90	6.56	24.5	13	3.23	5.15	41.1	41.0	976	987
DEC 10...	E.003	7.08	7.03	22.4	E5	3.06	4.33	36.2	36.6	1050	1060
FEB 05...	.007	4.29	4.41	42.2	E9	2.61	7.14	26.8	22.3	678	704
MAY 28...	.005	1.89	2.04	115	E5.9	1.95	17.7	34.3	12.7	277	296
JUN 24...	E.003	3.96	4.02	27	9.6	3.11	6.01	24.5	22.4	590	577
AUG 18...	--	6.86	7.30	19	12.3	3.76	6.02	23.1	24.0	865	907

&lt; Less than

E Estimated value

SPOKANE RIVER BASIN

12413250 SOUTH FORK COEUR D' ALENE RIVER AT KELLOGG, ID

LOCATION.--Lat 47°32'52", long 116°08'14", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>, sec.36, T.49 N., R.2 E., Shoshone County, Kellogg West quad., Hydrologic Unit 17010302, on left bank 1,200 ft downstream from Bunker Ave bridge, 0.3 miles downstream from Jackass Creek, 1.0 mi northwest of Kellogg city center, and at mile 6.7.

DRAINAGE AREA.--194 mi<sup>2</sup>, approximately.

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--March 1999 to current year.

PERIOD OR DAILY RECORD.--

WATER TEMPERATURE: March 1999 to current year.

SPECIFIC CONDUCTANCE: March 1999 to current year.

TURBIDITY: October 2000 to current year.

INSTRUMENTATION.--Water-quality data recorder since March 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 23.5 °C Aug. 9, 2001; minimum, 0.0 °C many days during winter months.

SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 229 microsiemens/cm Feb. 19, 2001; minimum recorded daily mean, 43 microsiemens/cm May 25, 2000.

TURBIDITY: Maximum recorded, >1,000 NTU Sept. 5, 2001, Apr. 14, 2002; minimum recorded, <2 NTU on many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 23.0°C July 21-23, 27, Aug. 1, 9; minimum, 0.0 °C many days during winter months.

SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 171 microsiemens/cm Dec. 23-25; minimum recorded daily mean, 55 microsiemens/cm May 26, 29-30.

TURBIDITY: Maximum recorded, 200 NTU Aug. 6; minimum recorded, <2 NTU on many days during the year.

REMARKS.--Turbidity data collected prior to 2001 water year not published.

Temperature, water, degrees Celsius												
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003												
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.0	7.5	4.0	0.0	4.0	3.0	4.0	3.0	5.0	4.0	4.5	2.0
2	11.5	6.5	4.0	0.5	4.5	3.0	5.0	4.0	4.5	3.5	4.0	2.5
3	10.5	8.0	4.5	0.5	4.0	3.5	4.5	3.5	4.0	3.0	6.0	2.5
4	12.5	9.5	4.5	1.0	4.5	3.5	4.5	3.5	4.0	3.5	5.5	2.5
5	12.0	9.5	4.5	1.0	5.5	4.0	5.0	4.0	4.5	3.0	3.5	3.0
6	13.5	9.0	6.0	3.0	5.5	4.5	4.0	2.5	3.5	2.5	4.0	2.0
7	13.5	9.0	5.5	3.0	5.0	4.0	3.0	2.0	3.0	2.0	2.5	1.5
8	12.5	8.0	6.0	5.0	5.5	3.5	2.5	2.0	3.5	3.0	4.0	1.0
9	12.5	8.0	6.0	5.5	4.0	3.0	2.0	0.5	4.0	3.0	4.0	2.5
10	10.5	8.0	6.0	5.0	4.0	3.0	2.0	0.0	4.5	2.5	5.0	3.5
11	8.5	6.5	6.0	5.0	4.5	4.0	2.5	1.0	4.0	1.5	5.0	4.0
12	9.5	4.5	6.5	5.0	5.5	4.0	4.0	2.5	4.0	1.5	5.5	3.5
13	9.5	4.5	7.0	6.0	5.5	4.5	5.0	4.0	4.0	1.5	6.5	4.5
14	9.5	4.5	6.5	5.5	6.0	5.0	4.5	3.5	4.5	3.0	5.5	4.0
15	9.5	5.0	6.0	5.0	5.5	4.5	4.0	3.0	5.5	3.0	6.0	3.5
16	10.0	5.5	6.0	4.0	5.5	4.5	4.0	2.5	4.5	4.0	6.5	4.0
17	10.5	5.5	6.5	5.5	5.0	3.0	3.0	2.0	4.5	3.5	6.5	3.5
18	10.0	5.5	6.5	5.5	4.0	3.0	3.0	2.0	5.0	3.0	6.5	3.5
19	9.5	5.5	7.0	6.0	3.5	2.0	3.5	2.5	6.5	3.0	7.0	3.0
20	10.5	6.5	8.5	6.5	3.0	1.5	4.0	3.0	4.5	4.0	6.5	3.5
21	10.5	6.5	7.0	6.0	3.0	1.0	3.5	2.0	4.5	3.0	6.0	4.0
22	9.5	6.0	7.5	6.5	3.5	2.5	3.0	2.0	4.5	3.0	5.5	4.5
23	8.5	4.5	7.0	5.0	3.5	3.0	4.5	2.5	3.5	0.0	5.0	4.0
24	7.0	3.0	5.0	2.5	3.5	2.0	4.0	2.5	2.5	0.0	5.5	3.5
25	7.0	2.5	3.5	1.5	3.5	2.0	5.0	3.5	3.0	0.0	5.0	3.5
26	6.5	2.5	3.5	2.0	4.0	3.0	5.0	4.0	4.0	0.0	5.5	3.5
27	5.0	2.5	3.5	1.5	4.0	3.5	4.5	4.0	4.0	0.5	6.0	3.5
28	7.0	5.0	3.5	1.5	4.0	3.5	5.0	4.0	2.5	1.0	6.5	3.0
29	5.5	1.0	4.0	2.5	4.0	2.5	4.0	3.0	---	---	7.0	3.5
30	4.0	0.0	4.0	3.0	3.5	2.5	4.5	3.5	---	---	9.0	4.5
31	4.0	0.0	---	---	4.0	3.5	5.0	4.5	---	---	7.0	5.5
MONTH	13.5	0.0	8.5	0.0	6.0	1.0	5.0	0.0	6.5	0.0	9.0	1.0

## SPOKANE RIVER BASIN

## 12413250 SOUTH FORK COEUR D' ALENE RIVER AT KELLOGG, ID--Continued

Temperature, water, degrees Celsius  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	4.5	9.5	6.0	11.0	7.0	18.5	11.5	23.0	14.0	20.0	12.0
2	5.5	4.0	10.0	5.5	11.5	7.5	18.0	12.5	18.5	14.0	20.5	12.0
3	5.0	3.0	8.5	5.5	13.0	7.0	18.0	10.5	17.5	15.0	20.0	12.5
4	6.0	3.0	7.0	6.0	13.5	7.0	19.0	10.5	22.0	14.5	18.5	12.5
5	6.0	3.5	7.5	5.5	14.0	7.5	16.5	11.5	20.0	13.5	19.5	13.0
6	6.5	3.5	7.0	4.5	14.5	8.0	19.5	11.5	21.5	14.5	20.5	12.5
7	8.5	3.5	7.5	4.5	15.0	8.5	19.5	12.0	22.0	14.5	18.0	13.5
8	10.0	4.5	9.5	4.0	14.5	9.0	17.5	13.5	22.0	14.0	15.0	12.5
9	8.5	5.0	9.0	5.0	15.5	9.5	20.0	11.5	23.0	14.0	16.0	11.5
10	10.0	4.5	11.0	5.5	13.5	9.5	21.5	12.5	22.5	14.5	14.5	11.5
11	7.0	5.5	10.0	5.5	12.5	9.0	21.5	13.5	21.5	14.0	15.0	12.5
12	6.5	4.5	9.5	6.5	15.5	8.5	21.5	13.5	21.5	13.0	14.5	11.5
13	8.0	5.0	11.5	6.5	13.5	10.0	17.5	14.5	21.0	13.0	16.5	9.0
14	8.0	5.0	11.5	6.0	13.0	9.5	20.5	12.0	21.5	13.0	16.0	9.0
15	7.0	4.0	8.5	6.0	16.0	8.5	21.5	12.5	20.5	13.5	16.5	10.5
16	7.0	4.0	7.5	5.0	17.0	9.5	22.5	15.0	20.5	15.0	13.0	10.0
17	7.0	4.5	6.5	4.0	18.0	10.0	21.5	14.5	21.0	14.5	13.5	10.0
18	7.5	5.0	8.0	4.5	19.0	11.5	22.5	13.5	22.0	13.5	15.0	8.5
19	9.0	3.5	9.5	4.5	17.5	13.0	22.5	14.0	22.0	13.5	17.0	10.5
20	10.5	4.0	9.0	5.0	14.0	10.5	22.0	14.0	20.0	13.5	16.5	10.0
21	10.5	5.0	9.0	6.5	12.5	9.0	23.0	14.5	21.0	12.0	15.5	9.0
22	10.0	6.0	11.0	6.5	11.0	9.0	23.0	15.0	16.5	14.0	16.0	9.0
23	9.0	6.5	13.5	8.0	15.5	8.5	23.0	14.5	18.0	14.0	16.0	9.5
24	9.0	5.0	13.5	7.5	14.5	9.0	21.5	14.5	19.5	12.5	16.5	9.5
25	7.5	5.5	10.5	7.5	16.5	9.5	21.0	14.5	21.0	12.0	17.0	10.5
26	7.0	4.0	10.5	6.5	18.5	11.0	22.0	15.0	20.5	13.0	17.0	10.5
27	8.0	4.5	12.0	6.5	19.0	11.5	23.0	15.0	20.0	14.0	16.5	10.0
28	9.5	4.0	12.0	7.0	19.5	12.0	22.5	14.0	20.0	12.0	17.0	10.0
29	7.5	5.5	13.0	7.5	20.0	12.0	22.5	14.0	20.0	11.5	16.5	10.5
30	9.0	5.5	9.0	7.0	19.5	13.5	22.5	14.0	20.0	11.5	16.5	9.5
31	---	---	8.5	7.5	---	---	22.5	14.0	19.5	11.5	---	---
MONTH	10.5	3.0	13.5	4.0	20.0	7.0	23.0	10.5	23.0	11.5	20.5	8.5
YEAR	23.0	0.0										

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	158	162	165	78	143	92	85	61	115	148	163
2	152	161	162	165	91	144	90	85	63	115	148	165
3	152	160	162	153	100	145	94	83	68	115	143	164
4	152	157	162	150	108	145	98	81	70	114	144	165
5	153	158	164	147	113	146	102	81	72	112	146	166
6	153	158	164	148	119	147	104	82	73	111	142	166
7	154	158	164	153	123	147	106	84	73	111	148	166
8	154	153	164	156	125	148	108	86	74	113	149	161
9	154	150	164	159	126	150	105	88	76	126	150	155
10	155	150	165	164	128	149	103	90	77	134	151	160
11	155	153	165	164	130	142	94	90	79	134	152	165
12	154	155	166	163	131	127	88	88	82	133	153	165
13	154	152	156	158	132	116	85	85	83	132	153	165
14	155	152	144	156	133	102	82	78	87	132	154	166
15	155	156	137	155	134	97	83	71	90	134	155	165
16	155	158	143	156	134	97	85	71	92	134	155	167
17	155	159	151	156	133	99	87	75	94	136	155	161
18	156	158	162	156	137	108	89	79	95	137	155	161
19	156	157	166	158	138	107	92	83	96	138	158	164
20	156	157	169	158	137	109	93	85	95	139	157	165
21	155	157	170	157	136	111	92	87	97	140	158	166
22	155	156	170	158	137	94	86	88	99	141	159	166
23	157	153	171	158	141	76	80	85	101	142	159	166
24	158	154	171	162	144	87	77	73	104	143	159	166
25	158	160	171	156	141	94	74	57	106	144	160	167
26	161	162	170	132	140	98	75	55	108	145	160	168
27	160	164	169	102	141	105	78	58	110	146	161	168
28	157	164	164	111	142	109	81	58	113	147	161	169
29	156	163	156	118	---	111	82	55	114	147	162	169
30	160	162	162	119	---	112	84	55	115	148	163	168
31	157	---	162	106	---	107	---	58	---	148	163	---
MEAN	155	157	162	149	128	118	90	77	89	132	154	165
MAX	161	164	171	165	144	150	108	90	115	148	163	169
MIN	150	150	137	102	78	76	74	55	61	111	142	155

WTR YR 2003 MEAN 131 MAX 171 MIN 55

SPOKANE RIVER BASIN

12413250 SOUTH FORK COEUR D' ALENE RIVER AT KELLOGG, ID--Continued

Turbidity, water, unfiltered, nephelometric turbidity units  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	<2.0	<2.0	<2.0	<2.0	3.3	<2.0	10	<2.0	130	13	<2.0	<2.0
2	<2.0	<2.0	19	<2.0	<2.0	<2.0	7.6	<2.0	16	3.9	2.9	<2.0
3	<2.0	<2.0	19	<2.0	3.5	<2.0	31	2.7	6.2	2.1	5.1	<2.0
4	14	<2.0	18	<2.0	2.3	<2.0	11	<2.0	2.9	<2.0	8.5	<2.0
5	2.1	<2.0	2.9	<2.0	<2.0	<2.0	8.2	<2.0	<2.0	<2.0	5.4	<2.0
6	<2.0	<2.0	5.5	<2.0	<2.0	<2.0	4.2	<2.0	2.2	<2.0	5.4	<2.0
7	12	<2.0	3.4	<2.0	<2.0	<2.0	2.5	<2.0	<2.0	<2.0	8.4	<2.0
8	2.8	<2.0	12	2.8	3.8	<2.0	3.6	<2.0	<2.0	<2.0	4.8	<2.0
9	<2.0	<2.0	18	<2.0	2.1	<2.0	<2.0	<2.0	4.6	<2.0	14	<2.0
10	6.4	<2.0	12	<2.0	12	<2.0	<2.0	<2.0	4.3	<2.0	12	<2.0
11	<2.0	<2.0	5.4	<2.0	11	<2.0	2.0	<2.0	2.8	<2.0	14	2.5
12	<2.0	<2.0	7.3	<2.0	3.5	<2.0	6.9	<2.0	<2.0	<2.0	15	3.9
13	<2.0	<2.0	18	<2.0	20	<2.0	7.1	<2.0	3.8	<2.0	12	2.8
14	<2.0	<2.0	18	<2.0	80	2.0	12	<2.0	<2.0	<2.0	22	5.2
15	<2.0	<2.0	11	<2.0	66	4.9	<2.0	<2.0	9.0	<2.0	9.2	3.0
16	<2.0	<2.0	5.3	<2.0	19	3.9	3.0	<2.0	19	<2.0	8.0	2.3
17	<2.0	<2.0	2.4	<2.0	4.9	<2.0	<2.0	<2.0	8.5	<2.0	3.2	<2.0
18	<2.0	<2.0	2.2	<2.0	4.3	<2.0	2.1	<2.0	3.9	<2.0	2.5	<2.0
19	<2.0	<2.0	7.2	<2.0	6.3	<2.0	<2.0	<2.0	2.3	<2.0	3.5	<2.0
20	2.0	<2.0	13	<2.0	2.5	<2.0	<2.0	<2.0	10	<2.0	4.3	<2.0
21	<2.0	<2.0	<2.0	<2.0	6.5	<2.0	3.5	<2.0	25	<2.0	4.9	<2.0
22	<2.0	<2.0	24	<2.0	5.5	<2.0	14	<2.0	8.9	<2.0	61	<2.0
23	18	<2.0	38	<2.0	2.6	<2.0	14	2.0	2.5	<2.0	52	9.4
24	<2.0	<2.0	19	<2.0	3.1	<2.0	7.5	<2.0	5.0	<2.0	15	3.9
25	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	20	<2.0	2.1	<2.0	11	2.9
26	<2.0	<2.0	<2.0	<2.0	5.5	<2.0	47	4.5	9.4	<2.0	14	2.4
27	<2.0	<2.0	8.5	<2.0	65	<2.0	34	3.9	<2.0	<2.0	7.5	<2.0
28	17	<2.0	<2.0	<2.0	11	<2.0	5.3	<2.0	<2.0	<2.0	5.4	<2.0
29	17	<2.0	7.5	<2.0	17	2.4	6.6	<2.0	---	---	3.5	<2.0
30	<2.0	<2.0	12	<2.0	6.6	<2.0	21	2.4	---	---	5.6	<2.0
31	3.0	<2.0	---	---	6.6	<2.0	170	3.5	---	---	15	<2.0
MONTH	18	2.0	38	2.0	80	2.0	170	2.0	130	2.0	61	2.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.8	2.6	4.3	<2.0	4.5	<2.0	2.2	<2.0	<2.0	<2.0	3.3	<2.0
2	11	<2.0	2.7	<2.0	3.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
3	4.9	<2.0	2.2	<2.0	4.0	<2.0	<2.0	<2.0	12	<2.0	<2.0	<2.0
4	4.9	<2.0	6.2	<2.0	4.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	3.8	<2.0	3.5	<2.0	3.5	<2.0	<2.0	<2.0	180	<2.0	2.5	<2.0
6	3.6	<2.0	4.8	<2.0	2.4	<2.0	4.9	<2.0	200	<2.0	6.0	<2.0
7	3.2	<2.0	2.6	<2.0	3.5	<2.0	3.9	<2.0	3.3	<2.0	4.7	<2.0
8	2.3	<2.0	2.5	<2.0	3.1	<2.0	2.6	<2.0	<2.0	<2.0	30	<2.0
9	18	<2.0	2.3	<2.0	<2.0	<2.0	3.7	<2.0	<2.0	<2.0	14	<2.0
10	3.1	<2.0	2.3	<2.0	44	<2.0	2.0	<2.0	6.6	<2.0	6.4	<2.0
11	6.4	<2.0	<2.0	<2.0	2.2	<2.0	2.2	<2.0	<2.0	<2.0	<2.0	<2.0
12	13	<2.0	5.4	<2.0	4.5	<2.0	2.2	<2.0	<2.0	<2.0	8.5	<2.0
13	5.8	<2.0	3.3	<2.0	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	52	<2.0
14	6.6	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.1	<2.0	3.2	<2.0
15	3.5	<2.0	3.7	<2.0	<2.0	<2.0	4.3	<2.0	<2.0	<2.0	<2.0	<2.0
16	8.1	<2.0	3.5	<2.0	5.7	<2.0	6.1	<2.0	2.1	<2.0	19	<2.0
17	23	<2.0	<2.0	<2.0	2.8	<2.0	2.4	<2.0	3.3	<2.0	4.0	2.2
18	4.6	<2.0	<2.0	<2.0	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	7.4	<2.0
19	2.6	<2.0	2.4	<2.0	2.4	<2.0	3.1	<2.0	5.4	<2.0	4.7	2.0
20	4.1	<2.0	2.7	<2.0	3.8	<2.0	76	<2.0	2.4	<2.0	8.0	2.1
21	2.3	<2.0	<2.0	<2.0	2.1	<2.0	<2.0	<2.0	4.8	<2.0	7.4	3.2
22	5.1	<2.0	4.3	<2.0	2.1	<2.0	3.4	<2.0	4.8	<2.0	12	6.3
23	4.4	<2.0	<2.0	<2.0	<2.0	<2.0	2.4	<2.0	2.9	<2.0	10	6.1
24	13	<2.0	36	<2.0	5.5	<2.0	4.3	<2.0	<2.0	<2.0	12	7.4
25	13	2.5	36	15	2.1	<2.0	<2.0	<2.0	4.6	<2.0	42	8.1
26	7.3	<2.0	19	5.0	2.4	<2.0	<2.0	<2.0	93	<2.0	34	11
27	5.4	<2.0	8.8	2.6	<2.0	<2.0	<2.0	<2.0	5.8	<2.0	25	16
28	3.2	<2.0	120	2.7	7.4	<2.0	4.6	<2.0	3.8	<2.0	29	18
29	2.3	<2.0	11	4.0	5.5	<2.0	<2.0	<2.0	3.6	<2.0	25	14
30	5.8	<2.0	22	4.3	<2.0	<2.0	2.8	<2.0	<2.0	<2.0	31	18
31	---	---	5.7	2.1	---	---	<2.0	<2.0	<2.0	<2.0	---	---
MONTH	23	2.0	120	2.0	44	2.0	76	2.0	200	2.0	52	2.0
YEAR	200	2.0										

< Actual value is known to be less than the value shown

## SPOKANE RIVER BASIN

## 12413300 SOUTH FORK COEUR D' ALENE RIVER AT SMELTERVILLE, ID

LOCATION.--Lat 47°32'54", long 116°10'28", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.35, T.49 N., R.2 E., Shoshone County, Kellogg West quad., Hydrologic Unit 17010302, on left bank at county road bridge, 0.2 mi downstream from Government Gulch, 0.3 miles north of Smelterville, and at mile 5.1.

DRAINAGE AREA.--202 mi<sup>2</sup>, approximately.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1999 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: March 1999 to current year.

SPECIFIC CONDUCTANCE: March 1999 to current year.

TURBIDITY: October 2000 to current year.

INSTRUMENTATION.--Water-quality data recorder since March 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 23.5 °C July 21-22, 27, Aug. 9, 2003; minimum, 0.0 °C many days during winter months.

SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 521 microsiemens/cm Dec. 12, 2000; minimum recorded daily mean, 58 microsiemens/cm May 29-30, 2002.

TURBIDITY: Maximum recorded, >1000 NTU Oct. 11, 31, 2001, Feb. 9, Apr. 14, 2002, Feb. 1, 2003; minimum recorded, <2 NTU on many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 23.5 °C July 21-22, 27, Aug. 9; minimum, 0.0 °C Oct. 31, Nov. 1-2, Jan. 10, Feb. 24-26.

SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 492 microsiemens/cm Sept. 28; minimum recorded daily mean, 66 microsiemens/cm May 31.

TURBIDITY: Maximum recorded, >1000 NTU Feb. 1; minimum recorded, <2 NTU on many days during the year.

REMARKS.--Turbidity data collected prior to 2001 water year not published. Missing record due to equipment failure.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unfiltered, uS/cm 25 degC (00095)	pH, water, unfiltered, field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfiltered, mg/L as CaCO3 (00900)	Calcium, water, unfiltered, mg/L (00915)	Magnesium, water, unfiltered, mg/L (00925)	Cadmium, water, unfiltered, ug/L (01025)	Cadmium, water, unfiltered, ug/L (01027)	Iron, water, unfiltered, recoverable, ug/L (01045)	Iron, water, unfiltered, ug/L (01046)	
OCT	30...	1010	61	258	7.6	-1.5	2.1	110	28	9.5	13.5	13.1	293	170
DEC	10...	1115	64	253	7.1	1.0	3.2	110	28	10	12.8	12.6	229	150
FEB	05...	1115	445	143	7.0	4.8	3.4	57	15	4.8	8.96	9.02	184	64
MAY	28...	1210	993	73	6.8	32.0	10.7	31	8.40	2.46	2.57	2.67	135	28.4
JUN	24...	1200	235	172	7.2	20.0	13.8	73	19.2	6.12	5.79	5.94	127	79.9
AUG	18...	1200	72	215	7.5	28.0	17.9	90	23.0	7.89	8.56	9.12	229	89.8

Date	Lead, water, unfiltered, recoverable, ug/L (01049)	Lead, water, unfiltered, recoverable, ug/L (01051)	Manganese, water, unfiltered, recoverable, ug/L (01055)	Manganese, water, unfiltered, recoverable, ug/L (01056)	Zinc, water, unfiltered, recoverable, ug/L (01090)	Zinc, water, unfiltered, recoverable, ug/L (01092)	
OCT	30...	3.85	16.9	1140	1140	1670	1740
DEC	10...	7.23	15.4	1990	1820	1740	1630
FEB	05...	5.76	17.0	217	209	1110	1080
MAY	28...	3.58	18.4	87.2	78.1	363	379
JUN	24...	6.96	11.6	512	490	881	871
AUG	18...	8.09	18.3	334	348	1110	1130





## SPOKANE RIVER BASIN

## 12413300 SOUTH FORK COEUR D' ALENE RIVER AT SMELTERVILLE, ID--Continued

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius  
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	238	247	271	228	88	199	132	122	70	---	289	---
2	233	243	251	233	106	227	138	126	82	---	287	---
3	251	235	252	221	123	193	138	125	94	---	271	---
4	279	230	283	228	140	209	125	123	101	---	239	---
5	282	255	298	194	158	216	135	124	107	---	234	---
6	293	279	310	212	189	222	128	131	105	---	241	---
7	295	297	314	246	179	259	137	138	93	---	248	---
8	306	281	320	270	192	263	137	132	94	---	303	---
9	304	275	322	272	198	258	134	132	106	---	289	183
10	285	280	320	284	205	216	138	128	116	---	---	188
11	236	281	277	286	213	186	126	127	122	---	---	194
12	237	290	258	286	186	192	120	121	131	233	---	192
13	233	270	279	245	202	165	114	112	134	241	---	194
14	250	279	236	248	183	129	113	111	132	244	---	195
15	283	258	198	228	183	117	119	104	119	222	---	196
16	272	221	197	227	180	113	127	106	130	249	---	205
17	301	219	192	254	186	125	125	117	146	251	---	291
18	311	220	233	267	212	145	123	127	151	259	---	279
19	316	242	284	277	213	152	121	135	156	261	---	346
20	314	271	255	284	186	152	121	142	155	267	---	346
21	314	285	241	288	178	162	124	147	156	234	---	353
22	277	288	240	268	208	133	120	149	149	286	---	359
23	222	276	238	260	216	97	112	140	171	291	---	357
24	267	276	260	243	229	112	111	111	174	294	---	357
25	255	296	289	266	214	122	108	74	178	275	---	218
26	294	302	299	208	208	127	111	66	178	284	---	201
27	303	310	295	135	216	122	117	77	182	284	---	284
28	303	315	275	145	214	137	122	77	---	287	---	492
29	295	296	262	165	---	149	126	69	---	288	---	312
30	289	290	271	146	---	157	119	67	---	289	---	368
31	308	---	250	131	---	153	---	66	---	277	---	---
MEAN	279	270	267	234	186	168	124	114	---	---	---	---
MAX	316	315	322	288	229	263	138	149	---	---	---	---
MIN	222	219	192	131	88	97	108	66	---	---	---	---

Turbidity, water, unfiltered, nephelometric turbidity units  
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.8	<2.0	33	<2.0	10	<2.0	12	<2.0	>1000	29	3.2	<2.0
2	140	<2.0	10	<2.0	55	<2.0	6.2	<2.0	29	7.6	<2.0	<2.0
3	130	<2.0	3.8	<2.0	5.8	<2.0	25	4.9	13	4.3	2.2	<2.0
4	11	3.0	130	<2.0	6.0	<2.0	12	2.4	7.8	3.2	6.2	<2.0
5	8.7	<2.0	110	2.6	3.4	<2.0	10	2.7	13	<2.0	2.5	<2.0
6	4.7	<2.0	23	<2.0	6.9	<2.0	5.0	<2.0	5.1	<2.0	<2.0	<2.0
7	40	<2.0	36	<2.0	11	<2.0	4.1	<2.0	12	<2.0	7.2	<2.0
8	47	<2.0	24	2.2	8.9	<2.0	2.6	<2.0	<2.0	<2.0	<2.0	<2.0
9	120	<2.0	9.2	<2.0	8.9	<2.0	5.1	<2.0	<2.0	<2.0	56	<2.0
10	15	<2.0	3.4	<2.0	14	<2.0	<2.0	<2.0	<2.0	<2.0	5.7	<2.0
11	4.3	<2.0	13	<2.0	11	<2.0	2.0	<2.0	<2.0	<2.0	10	<2.0
12	3.9	<2.0	32	<2.0	8.0	<2.0	10	<2.0	7.4	<2.0	12	2.6
13	24	<2.0	21	3.1	45	<2.0	9.1	<2.0	<2.0	<2.0	8.4	2.6
14	42	<2.0	310	2.8	310	12	9.6	<2.0	3.1	<2.0	16	4.7
15	25	<2.0	49	12	110	12	33	<2.0	<2.0	<2.0	10	2.3
16	70	<2.0	16	7.1	24	10	5.1	<2.0	14	<2.0	10	2.5
17	75	<2.0	18	3.4	14	2.7	<2.0	<2.0	5.8	<2.0	5.7	<2.0
18	13	<2.0	22	3.2	4.6	2.0	5.6	<2.0	4.6	<2.0	6.6	<2.0
19	3.4	<2.0	54	4.1	5.6	<2.0	23	<2.0	<2.0	<2.0	2.8	<2.0
20	<2.0	<2.0	51	4.6	4.4	<2.0	3.5	<2.0	16	<2.0	<2.0	<2.0
21	59	<2.0	26	3.4	2.2	<2.0	6.8	<2.0	35	<2.0	<2.0	<2.0
22	45	<2.0	13	3.7	2.2	<2.0	7.7	<2.0	35	<2.0	88	<2.0
23	210	<2.0	25	5.8	2.9	<2.0	13	2.2	3.5	<2.0	80	13
24	34	<2.0	15	2.6	11	<2.0	7.2	<2.0	2.1	<2.0	13	3.4
25	5.7	<2.0	26	<2.0	3.1	<2.0	12	<2.0	<2.0	<2.0	11	2.1
26	4.1	<2.0	100	<2.0	2.5	<2.0	200	4.7	11	<2.0	13	<2.0
27	2.8	<2.0	630	2.1	65	<2.0	180	10	3.1	<2.0	8.5	<2.0
28	62	<2.0	28	5.4	20	<2.0	17	4.4	<2.0	<2.0	3.0	<2.0
29	22	<2.0	14	4.1	26	2.8	7.8	2.6	---	---	2.3	<2.0
30	15	<2.0	8.2	2.5	5.0	<2.0	15	4.7	---	---	4.2	<2.0
31	100	<2.0	---	---	9.3	2.9	450	5.6	---	---	11	<2.0
MONTH	210	2.0	630	2.0	310	2.0	450	2.0	1000	2.0	88	2.0

< Actual value is known to be less than the value shown  
 > Actual value is known to be greater than the value shown

SPOKANE RIVER BASIN

12413300 SOUTH FORK COEUR D' ALENE RIVER AT SMELTERVILLE, ID--Continued

Turbidity, water, unfiltered, nephelometric turbidity units  
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.4	2.6	---	---	6.6	2.0	---	---	2.4	<2.0	---	---
2	5.3	<2.0	---	---	3.6	<2.0	---	---	<2.0	<2.0	---	---
3	3.9	<2.0	---	---	5.3	<2.0	---	---	5.2	<2.0	---	---
4	4.3	<2.0	---	---	3.9	<2.0	---	---	3.1	<2.0	---	---
5	3.2	<2.0	---	---	3.9	<2.0	---	---	3.7	<2.0	---	---
6	<2.0	<2.0	---	---	3.0	<2.0	---	---	89	<2.0	---	---
7	<2.0	<2.0	3.1	<2.0	2.4	<2.0	---	---	3.5	<2.0	---	---
8	<2.0	<2.0	<2.0	<2.0	5.1	<2.0	---	---	4.1	<2.0	---	---
9	11	<2.0	3.4	<2.0	2.5	<2.0	---	---	2.4	<2.0	9.0	<2.0
10	4.0	<2.0	2.8	<2.0	6.2	<2.0	---	---	---	---	<2.0	<2.0
11	5.4	2.3	3.8	<2.0	3.6	<2.0	---	---	---	---	<2.0	<2.0
12	9.1	3.3	4.7	<2.0	3.6	<2.0	3.4	<2.0	---	---	<2.0	<2.0
13	---	---	5.5	<2.0	7.5	<2.0	<2.0	<2.0	---	---	<2.0	<2.0
14	---	---	2.7	<2.0	3.8	<2.0	<2.0	<2.0	---	---	<2.0	<2.0
15	---	---	3.3	<2.0	2.2	<2.0	2.6	<2.0	---	---	<2.0	<2.0
16	---	---	4.4	<2.0	2.2	<2.0	5.5	<2.0	---	---	6.6	<2.0
17	---	---	4.4	<2.0	4.2	<2.0	<2.0	<2.0	---	---	<2.0	<2.0
18	---	---	2.9	<2.0	8.5	<2.0	<2.0	<2.0	---	---	<2.0	<2.0
19	---	---	<2.0	<2.0	2.9	<2.0	3.5	<2.0	---	---	<2.0	<2.0
20	---	---	<2.0	<2.0	4.2	<2.0	<2.0	<2.0	---	---	<2.0	<2.0
21	---	---	<2.0	<2.0	3.5	<2.0	<2.0	<2.0	---	---	<2.0	<2.0
22	---	---	<2.0	<2.0	2.5	<2.0	3.1	<2.0	---	---	<2.0	<2.0
23	---	---	2.5	<2.0	<2.0	<2.0	3.3	<2.0	---	---	3.4	<2.0
24	---	---	24	<2.0	2.7	<2.0	<2.0	<2.0	---	---	<2.0	<2.0
25	---	---	35	18	6.0	<2.0	5.6	<2.0	---	---	3.5	<2.0
26	---	---	21	6.6	<2.0	<2.0	2.7	<2.0	---	---	<2.0	<2.0
27	---	---	11	4.2	6.2	<2.0	50	<2.0	---	---	<2.0	<2.0
28	---	---	8.3	4.0	---	---	<2.0	<2.0	---	---	<2.0	<2.0
29	---	---	9.9	5.9	---	---	<2.0	<2.0	---	---	2.1	<2.0
30	---	---	17	4.9	---	---	<2.0	<2.0	---	---	2.1	<2.0
31	---	---	9.7	3.0	---	---	<2.0	<2.0	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

< Actual value is known to be less than the value shown

SPOKANE RIVER BASIN

12413360 EAST FORK PINE CREEK ABOVE GILBERT CREEK NEAR PINEHURST, ID

LOCATION.--Lat 47°26'25", long 116°10'27", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.11, T.47 N., R.2 E., Shoshone County, Masonia quad., Hydrologic Unit 17010302, on right bank, 20 ft downstream from forest road culvert, 1,200 ft upstream from Gilbert Creek, and approximately 7 mi southeast of Pinehurst.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,960 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair except for discharges above 100 ft<sup>3</sup>/s, which are poor. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 189 ft<sup>3</sup>/s Apr. 14, 2002; minimum daily, 0.38 ft<sup>3</sup>/s Oct. 18, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 94 ft<sup>3</sup>/s Feb. 1; minimum daily, 0.48 ft<sup>3</sup>/s Sept. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.72	0.62	0.61	3.5	94	3.7	32	13	6.5	1.4	0.83	0.57
2	0.72	0.61	0.60	3.4	41	3.7	27	13	5.6	1.3	0.81	0.56
3	0.72	0.62	0.60	10	24	3.7	23	15	5.0	1.2	0.87	0.57
4	0.73	0.64	0.60	9.0	16	3.6	20	15	4.5	1.2	0.80	0.58
5	0.75	0.64	0.60	11	12	3.8	17	14	4.2	1.3	0.78	0.56
6	0.72	0.66	0.60	7.9	9.5	3.6	14	12	3.9	1.3	0.87	0.58
7	0.72	0.72	0.60	5.4	8.6	3.5	12	11	3.7	1.3	0.79	0.58
8	0.70	1.2	0.60	4.4	8.0	3.1	12	10	3.6	1.2	0.76	0.59
9	0.70	0.95	0.60	3.7	7.3	3.6	12	9.0	3.4	1.1	0.77	0.69
10	0.69	0.93	0.64	3.2	6.5	4.2	16	8.2	3.1	1.1	0.76	0.54
11	0.66	0.79	0.66	3.0	6.0	8.3	22	8.0	2.6	1.2	0.72	0.55
12	0.62	0.85	0.68	3.3	5.7	22	25	8.6	2.7	1.2	0.69	0.53
13	0.64	1.0	1.8	4.3	5.7	33	27	9.6	2.6	1.1	0.69	0.54
14	0.62	0.85	4.7	5.0	5.4	39	29	12	2.1	1.0	0.69	0.54
15	0.63	0.76	5.5	5.1	5.1	39	25	15	2.1	1.1	0.72	0.52
16	0.64	0.75	7.2	4.6	5.6	37	23	13	2.1	1.1	0.70	0.52
17	0.65	0.75	4.8	4.0	5.3	27	21	9.7	2.2	1.0	0.68	0.60
18	0.65	0.72	2.8	3.7	5.0	21	19	8.3	2.2	1.00	0.69	0.57
19	0.64	0.82	2.0	3.4	5.0	17	17	7.2	2.2	1.0	0.71	0.53
20	0.65	0.82	1.8	3.2	5.5	14	16	6.6	1.8	1.00	0.65	0.52
21	0.65	0.77	1.6	3.0	5.9	13	17	6.3	1.6	0.97	0.66	0.53
22	0.64	0.82	1.5	2.9	5.8	80	22	6.0	1.5	0.97	0.65	0.53
23	0.61	1.0	1.4	3.6	4.9	84	24	6.7	1.6	0.97	0.66	0.51
24	0.60	0.84	1.3	3.8	4.4	43	24	11	1.5	0.97	0.63	0.51
25	0.62	0.73	1.3	4.8	4.4	28	24	18	1.5	0.93	0.62	0.50
26	0.64	0.68	1.3	34	4.4	23	22	14	1.5	0.91	0.65	0.50
27	0.64	0.66	1.9	39	4.2	20	19	11	1.5	0.88	0.62	0.50
28	0.66	0.64	2.1	20	3.9	17	16	10	1.5	0.86	0.58	0.50
29	0.66	0.64	4.3	14	---	14	14	9.4	1.5	0.84	0.56	0.48
30	0.63	0.63	3.5	13	---	13	13	8.5	1.5	0.84	0.57	0.50
31	0.63	---	3.8	45	---	19	---	7.4	---	0.84	0.57	---
TOTAL	20.55	23.11	61.99	284.2	319.1	647.8	604	326.5	81.3	33.08	21.75	16.30
MEAN	0.66	0.77	2.00	9.17	11.4	20.9	20.1	10.5	2.71	1.07	0.70	0.54
MAX	0.75	1.2	7.2	45	94	84	32	18	6.5	1.4	0.87	0.69
MIN	0.60	0.61	0.60	2.9	3.9	3.1	12	6.0	1.5	0.84	0.56	0.48
AC-FT	41	46	123	564	633	1280	1200	648	161	66	43	32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2003, BY WATER YEAR (WY)

MEAN	0.67	1.26	3.23	6.12	6.54	10.9	27.3	26.8	9.63	1.68	0.86	0.61
MAX	0.76	2.49	7.76	11.1	11.4	20.9	43.1	48.6	22.7	2.39	1.17	0.75
(WY)	2002	2002	2000	2002	2003	2003	2000	2002	2002	2002	2002	2002
MIN	0.60	0.51	0.44	0.50	0.64	3.70	10.6	10.5	2.71	1.07	0.70	0.52
(WY)	2001	2001	2001	2001	2001	2001	2001	2003	2003	2003	2003	2001

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 2000 - 2003

ANNUAL TOTAL	4233.83	2439.68	
ANNUAL MEAN	11.6	6.68	7.31
HIGHEST ANNUAL MEAN			11.8
LOWEST ANNUAL MEAN			3.45
HIGHEST DAILY MEAN	189	Apr 14	94
LOWEST DAILY MEAN	0.60	Oct 24	0.48
ANNUAL SEVEN-DAY MINIMUM	0.60	Dec 2	0.50
ANNUAL RUNOFF (AC-FT)	8400		4840
10 PERCENT EXCEEDS	37		19
50 PERCENT EXCEEDS	2.8		1.8
90 PERCENT EXCEEDS	0.66		0.60
			5300
			20
			1.6
			0.51
			2002
			2001
			2002
			2001
			2002
			2001

SPOKANE RIVER BASIN

12413360 EAST FORK PINE CREEK ABOVE GILBERT CREEK NEAR PINEHURST, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 2000 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: March 2000 to current year.

SPECIFIC CONDUCTANCE: March 2000 to current year.

TURBIDITY: March 2000 to current year.

INSTRUMENTATION.--Water-quality data recorder since March 2000.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 15.0 °C July 24, 27-28, 30, Aug. 1, 10, 2003; minimum, 0.5 °C, many days during winter months.

SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 30 microsiemens/cm Sept. 3, 2003; minimum recorded daily mean, 9 microsiemens/cm April 14, July 6, 16, 2000.

TURBIDITY: Maximum recorded, 620 NTU Jan. 10, 2002; minimum recorded, <2 NTU on many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 15.0 °C July 24, 27-28, 30, Aug. 1, 10; minimum, 0.5 °C Feb. 25.

SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 30 microsiemens/cm Sept. 3; minimum recorded daily mean, 11 microsiemens/cm Mar. 15-17, 23.

TURBIDITY: Maximum recorded, 55 NTU Mar. 17; minimum recorded, <2 NTU on many days during the year.

REMARKS.--Turbidity data collected prior to 2001 water year not published.

Temperature, water, degrees Celsius  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	5.0	3.5	4.0	3.5	3.0	2.5	4.5	4.0	2.0	1.5
2	8.5	8.0	4.5	3.5	4.0	3.5	3.0	3.0	4.0	4.0	2.5	1.5
3	8.5	8.0	4.5	3.0	4.0	3.5	3.5	3.0	4.0	3.5	2.5	2.0
4	9.0	8.0	4.0	3.0	4.0	3.5	4.0	3.5	3.5	3.0	2.5	2.0
5	9.0	8.5	5.0	3.0	4.0	3.5	4.0	3.5	3.5	3.0	2.5	1.5
6	9.0	8.5	4.5	4.0	4.0	3.5	3.5	3.0	3.0	2.5	2.0	1.5
7	9.0	8.5	4.5	4.5	4.0	3.5	3.0	3.0	3.0	2.0	2.0	1.5
8	9.0	8.0	4.5	3.5	4.0	3.5	3.0	2.5	3.0	2.5	2.0	1.5
9	9.0	8.0	4.5	3.5	3.5	3.5	2.5	2.0	3.0	2.5	2.5	2.0
10	8.5	8.0	4.0	3.5	3.5	3.5	2.0	2.0	3.0	2.5	2.5	2.5
11	8.0	7.5	4.5	4.0	3.5	3.5	2.5	2.0	2.5	2.0	3.0	2.5
12	7.5	7.0	5.0	4.0	3.5	3.5	3.0	2.5	2.5	2.0	3.5	3.0
13	7.5	7.0	4.5	4.0	3.5	3.0	3.0	3.0	2.5	2.0	4.5	3.5
14	7.5	6.5	5.0	4.5	3.5	3.0	3.5	3.0	3.0	2.5	4.5	4.0
15	7.5	6.5	5.0	4.5	3.5	3.5	3.5	3.0	3.0	2.5	4.5	4.0
16	7.0	6.5	5.0	4.5	3.5	3.5	3.0	2.5	3.5	3.0	4.5	4.0
17	7.0	6.5	5.0	4.5	3.5	3.0	2.5	2.5	3.0	2.5	4.5	3.5
18	7.0	6.5	5.0	4.5	3.5	3.0	2.5	2.5	3.5	3.0	4.0	3.5
19	7.0	6.5	5.0	4.5	3.0	2.5	2.5	2.5	3.0	2.5	4.0	3.5
20	7.0	6.5	5.0	5.0	3.0	2.5	3.0	2.5	3.0	2.5	4.5	3.5
21	7.0	6.5	5.0	5.0	2.5	2.0	2.5	2.5	3.5	2.5	4.5	4.0
22	7.0	6.5	5.0	5.0	2.5	2.5	2.5	2.0	3.5	3.0	4.5	4.0
23	6.5	6.0	5.0	4.0	2.5	2.5	3.0	2.5	3.0	1.5	4.0	4.0
24	6.0	5.5	4.5	4.0	2.5	2.0	3.0	2.5	1.5	1.0	4.0	3.5
25	6.0	5.5	4.5	4.0	2.5	2.0	3.5	3.0	1.5	0.5	4.0	3.5
26	6.0	5.5	4.5	4.0	2.5	2.0	4.0	3.5	1.5	1.0	4.0	3.5
27	5.5	5.5	4.0	4.0	2.5	2.0	4.5	4.0	2.0	1.0	4.0	3.5
28	6.0	5.5	4.0	3.5	2.5	2.5	4.0	3.5	2.0	1.5	4.0	3.0
29	5.5	5.0	4.0	4.0	2.5	2.5	4.0	3.5	---	---	4.5	3.5
30	5.0	5.0	4.0	3.5	2.5	2.5	4.0	3.5	---	---	5.5	4.0
31	5.0	5.0	---	---	3.0	2.5	4.5	4.0	---	---	5.0	4.5
MONTH	9.0	5.0	5.0	3.0	4.0	2.0	4.5	2.0	4.5	0.5	5.5	1.5

## SPOKANE RIVER BASIN

## 12413360 EAST FORK PINE CREEK ABOVE GILBERT CREEK NEAR PINEHURST, ID--Continued

Temperature, water, degrees Celsius  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	4.0	5.5	5.0	8.5	7.5	12.5	10.0	15.0	12.5	13.0	11.5
2	4.0	3.5	6.0	4.5	8.5	7.5	12.5	10.0	13.5	12.5	13.0	11.5
3	4.0	3.0	5.5	5.0	9.0	7.5	12.0	9.5	13.0	12.5	13.0	11.5
4	4.0	3.0	5.0	4.5	9.5	7.0	12.5	9.5	14.5	12.5	13.0	12.0
5	4.0	3.0	5.0	4.5	9.5	7.5	11.5	10.0	14.0	12.0	13.0	12.0
6	4.0	3.0	4.5	4.0	10.0	8.0	12.0	10.0	14.5	12.0	13.0	12.0
7	4.5	3.5	4.5	4.0	10.5	8.0	12.5	10.0	14.5	12.5	13.0	12.0
8	5.5	4.0	5.0	3.5	10.5	8.5	12.0	10.5	14.5	12.0	12.5	11.5
9	5.0	4.5	5.5	4.0	11.0	8.5	12.5	10.0	14.5	12.5	12.0	11.0
10	5.5	4.0	5.5	4.5	10.0	9.0	13.0	10.5	15.0	12.5	12.0	11.0
11	5.5	4.5	6.0	4.5	9.5	8.5	13.5	10.5	14.5	12.5	11.5	11.5
12	5.0	4.0	6.0	5.5	10.5	8.5	13.5	11.0	14.0	12.0	12.0	11.0
13	5.5	4.5	7.0	5.5	10.0	9.0	12.5	11.0	14.0	12.0	12.0	10.5
14	5.0	4.0	7.0	5.5	9.5	9.0	13.0	10.5	14.5	12.0	11.5	10.5
15	4.5	3.5	6.0	5.0	11.0	8.5	13.5	11.0	14.0	12.5	11.5	10.5
16	5.0	4.0	5.0	4.0	11.0	8.5	14.0	11.5	14.5	12.5	11.0	10.0
17	5.0	4.0	5.0	4.0	11.5	9.0	14.0	11.5	14.5	12.5	10.5	10.0
18	4.5	4.0	4.5	4.0	12.0	9.5	14.0	11.0	14.5	12.5	10.5	9.5
19	5.0	3.5	5.5	3.5	12.0	10.0	14.0	11.5	14.5	12.5	11.0	10.0
20	5.5	4.0	5.5	4.0	10.5	9.5	14.0	11.5	14.0	12.5	11.0	10.0
21	6.0	4.5	6.0	5.0	10.0	9.0	14.5	11.5	14.0	12.0	11.0	9.5
22	5.5	5.0	7.0	5.5	9.5	9.0	14.5	12.0	13.0	12.5	11.0	9.5
23	5.5	5.0	8.0	6.5	10.0	8.5	14.5	12.0	14.0	12.5	11.0	10.0
24	6.0	4.5	9.0	7.0	11.0	8.5	15.0	12.5	13.5	12.0	11.0	9.5
25	5.5	4.0	8.0	6.5	11.0	8.5	14.0	12.5	13.5	12.0	11.0	10.0
26	4.5	3.5	7.5	6.5	12.0	9.0	14.5	12.5	14.0	12.0	11.0	10.0
27	5.0	4.0	8.0	6.5	11.0	9.5	15.0	12.5	14.0	12.5	11.0	9.5
28	5.5	3.5	8.5	7.0	12.0	9.5	15.0	12.0	13.5	12.0	10.5	9.5
29	5.0	4.5	9.5	7.5	12.5	10.0	14.5	12.5	13.5	12.0	10.5	9.5
30	5.5	4.5	8.0	7.5	12.5	10.5	15.0	12.5	13.5	11.5	10.5	9.5
31	---	---	8.0	7.5	---	---	14.5	12.5	13.0	11.5	---	---
MONTH	6.0	3.0	9.5	3.5	12.5	7.0	15.0	9.5	15.0	11.5	13.0	9.5
YEAR	15.0	0.5										

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	24	24	18	13	17	14	16	20	24	27	28
2	24	24	24	18	14	17	---	17	20	25	27	29
3	24	24	24	16	14	18	14	16	20	25	27	30
4	25	24	24	16	15	18	14	16	20	25	27	28
5	26	24	24	16	15	18	15	17	21	25	27	28
6	26	24	25	16	14	18	15	17	21	25	27	28
7	26	24	25	16	14	18	15	17	21	25	27	29
8	26	24	25	17	15	18	16	17	22	24	28	29
9	26	25	25	17	15	18	16	17	22	24	28	27
10	25	24	25	17	15	18	16	17	22	25	28	28
11	25	26	25	18	15	17	15	18	22	25	28	29
12	25	26	25	18	16	14	15	18	22	25	28	29
13	24	25	23	18	16	13	15	18	22	25	28	29
14	24	26	20	17	16	12	15	17	23	25	28	29
15	24	27	19	17	16	11	15	17	23	25	28	29
16	24	27	18	17	16	11	15	17	23	25	28	29
17	24	27	17	17	16	11	15	17	23	26	28	28
18	24	26	18	18	17	12	15	17	23	26	28	28
19	24	27	18	18	17	12	16	18	23	26	28	28
20	24	27	19	18	17	13	16	18	23	26	28	28
21	24	26	19	18	17	14	16	19	23	26	28	28
22	24	27	20	18	17	12	16	19	23	26	28	28
23	24	26	20	18	17	11	15	19	23	26	28	28
24	24	27	20	18	17	12	15	19	23	26	28	28
25	24	26	21	18	17	13	15	18	23	26	28	28
26	23	25	21	16	17	13	15	18	24	26	28	28
27	23	25	20	14	17	14	16	19	24	26	28	28
28	23	25	20	15	17	14	16	19	24	26	28	28
29	23	24	18	15	---	15	16	19	24	27	28	28
30	24	24	18	16	---	15	16	20	24	27	28	28
31	25	---	18	15	---	15	---	20	---	27	28	---
MEAN	24	25	21	17	16	15	---	18	22	25	28	28

SPOKANE RIVER BASIN

12413360 EAST FORK PINE CREEK ABOVE GILBERT CREEK NEAR PINEHURST, ID--Continued

Turbidity, water, unfiltered, nephelometric turbidity units  
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	12	<2.0	<2.0	<2.0
2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.3	<2.0	<2.0	<2.0
3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.2	<2.0	<2.0	<2.0	<2.0	<2.0
4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	<2.0	<2.0	<2.0	<2.0
6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
8	<2.0	<2.0	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9	<2.0	<2.0	4.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.0	<2.0	3.1	<2.0
12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
13	<2.0	<2.0	<2.0	<2.0	31	<2.0	2.4	<2.0	<2.0	<2.0	5.7	<2.0
14	<2.0	<2.0	<2.0	<2.0	5.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.5	<2.0	<2.0	<2.0
16	<2.0	<2.0	<2.0	<2.0	8.4	<2.0	<2.0	<2.0	2.5	<2.0	2.6	<2.0
17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	55	<2.0
18	<2.0	<2.0	<2.0	<2.0	12	<2.0	<2.0	<2.0	2.5	<2.0	<2.0	<2.0
19	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	<2.0	<2.0	<2.0	<2.0
20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.0	<2.0	<2.0	<2.0
21	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.3	<2.0	<2.0	<2.0
22	<2.0	<2.0	17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	16	<2.0
23	<2.0	<2.0	16	<2.0	<2.0	<2.0	<2.0	<2.0	4.9	<2.0	6.4	<2.0
24	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5.3	<2.0
25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
26	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	8.7	<2.0	<2.0	<2.0	<2.0	<2.0
27	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	<2.0	<2.0	<2.0	<2.0
28	<2.0	<2.0	<2.0	<2.0	2.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
29	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.0	<2.0	---	---	<2.0	<2.0
30	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	---	---	<2.0	<2.0
31	<2.0	<2.0	---	---	<2.0	<2.0	8.1	<2.0	---	---	<2.0	<2.0
MONTH	2.0	2.0	17	2.0	31	2.0	8.7	2.0	12	2.0	55	2.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
6	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
8	<2.0	<2.0	2.3	<2.0	<2.0	<2.0	22	<2.0	<2.0	<2.0	<2.0	<2.0
9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
10	<2.0	<2.0	7.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
12	<2.0	<2.0	3.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
13	4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
14	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
16	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	2.4	<2.0	<2.0	<2.0	<2.0	<2.0
17	7.1	<2.0	<2.0	<2.0	4.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
18	<2.0	<2.0	<2.0	<2.0	5.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
19	<2.0	<2.0	<2.0	<2.0	4.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
21	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
22	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
23	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.8	<2.0	<2.0	<2.0
24	<2.0	<2.0	5.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
25	<2.0	<2.0	5.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
26	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
27	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
28	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
29	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
30	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
31	---	---	<2.0	<2.0	---	---	<2.0	<2.0	<2.0	<2.0	---	---
MONTH	---	---	7.9	2.0	5.9	2.0	22	2.0	4.8	2.0	2.0	2.0

< Actual value is known to be less than the value shown

## SPOKANE RIVER BASIN

## 12413370 EAST FORK PINE CREEK ABOVE NABOB CREEK NEAR PINEHURST, ID

LOCATION.--Lat 47°28'36", long 116°13'14", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.28, T.48 N., R.2 E., Shoshone County, Masonia quad., Hydrologic Unit 17010302, on right bank at upstream side of Bureau of Land Management road bridge, 80 ft upstream from Nabob Creek, 1.2 mi upstream from confluence with Pine Creek, and 4.3 mi south of Pinehurst.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,490 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 750 ft<sup>3</sup>/s Apr. 14, 2002; minimum daily, 4.0 ft<sup>3</sup>/s Sept. 22, 24, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 369 ft<sup>3</sup>/s Feb. 1; minimum daily, 5.0 ft<sup>3</sup>/s Sept. 6, 7, 29, 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	5.8	6.2	35	369	30	122	53	43	12	7.2	5.2
2	6.9	5.8	6.2	31	203	29	116	54	38	12	7.2	5.2
3	7.0	5.9	6.0	61	131	28	98	58	35	12	9.1	5.1
4	7.2	6.3	5.9	56	96	27	83	60	32	12	8.8	5.1
5	7.3	6.4	6.0	54	77	27	74	58	29	12	7.9	5.1
6	7.0	6.5	6.0	46	65	27	67	55	28	11	9.4	5.0
7	6.8	6.5	5.9	37	57	26	60	51	26	11	8.4	5.0
8	6.6	11	5.9	30	52	24	56	48	25	12	7.7	6.1
9	6.6	11	5.9	26	48	26	59	44	24	11	7.3	7.5
10	6.5	10	6.3	22	44	32	65	42	24	11	7.1	6.5
11	6.4	8.9	7.6	20	40	52	83	42	23	10	6.9	6.2
12	6.3	8.5	7.3	20	37	97	99	45	21	10	6.8	6.1
13	6.4	9.9	17	24	36	139	105	48	21	9.9	6.7	5.7
14	6.4	8.7	39	26	34	178	111	56	20	9.8	6.6	5.6
15	6.4	8.0	46	29	32	180	101	64	19	9.6	6.4	5.5
16	6.4	7.3	49	28	36	192	85	60	18	9.8	6.5	5.7
17	6.3	7.3	39	26	39	161	80	52	17	9.3	6.4	6.4
18	6.3	6.9	24	24	39	126	74	47	17	9.0	6.3	6.2
19	6.3	7.4	18	22	40	103	68	41	17	8.8	6.1	5.8
20	6.3	7.6	15	20	43	92	65	38	17	8.7	6.0	5.6
21	6.3	7.2	13	19	47	84	67	36	16	8.6	5.9	5.4
22	6.2	7.9	11	19	51	279	77	35	16	8.5	6.1	e5.3
23	6.0	11	10	25	49	340	85	37	15	8.3	6.4	e5.3
24	6.0	10	9.6	28	44	208	89	50	15	8.1	6.1	5.3
25	6.0	7.8	9.2	33	41	146	92	77	14	8.0	5.8	5.2
26	6.0	6.9	9.2	109	38	122	85	69	14	7.9	5.7	5.1
27	5.9	6.5	15	169	35	105	71	58	13	7.7	5.6	5.1
28	6.3	6.3	20	110	32	90	63	54	13	7.6	5.6	5.1
29	6.6	6.2	34	83	---	78	58	54	13	7.4	5.6	5.0
30	5.9	6.2	31	83	---	71	55	52	13	7.3	5.4	5.0
31	5.7	---	36	187	---	82	---	48	---	7.3	5.4	---
TOTAL	199.4	231.7	520.2	1502	1855	3201	2413	1586	636	297.6	208.4	166.4
MEAN	6.43	7.72	16.8	48.5	66.2	103	80.4	51.2	21.2	9.60	6.72	5.55
MAX	7.3	11	49	187	369	340	122	77	43	12	9.4	7.5
MIN	5.7	5.8	5.9	19	32	24	55	35	13	7.3	5.4	5.0
AC-FT	396	460	1030	2980	3680	6350	4790	3150	1260	590	413	330

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2003, BY WATER YEAR (WY)

	2000	2001	2002	2003
MEAN	7.18	13.6	23.8	39.5
MAX	8.15	27.2	49.3	75.7
(WY)	2000	2000	2000	2000
MIN	6.43	6.35	5.82	6.17
(WY)	2003	2001	2001	2001

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 2000 - 2003
ANNUAL TOTAL	24817.6	12816.7	
ANNUAL MEAN	68.0	35.1	43.6
HIGHEST ANNUAL MEAN			69.0
LOWEST ANNUAL MEAN			17.8
HIGHEST DAILY MEAN	750	369	750
LOWEST DAILY MEAN	5.7	5.0	4.0
ANNUAL SEVEN-DAY MINIMUM	5.9	5.1	4.1
ANNUAL RUNOFF (AC-FT)	49230	25420	31620
10 PERCENT EXCEEDS	204	84	113
50 PERCENT EXCEEDS	24	16	17
90 PERCENT EXCEEDS	6.4	5.9	5.9

e Estimated



SPOKANE RIVER BASIN

12413370 EAST FORK PINE CREEK ABOVE NABOB CREEK NEAR PINEHURST, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1999 to current year.

PERIOD OF DAILY RECORD.--

- WATER TEMPERATURE: October 1999 to current year.
- SPECIFIC CONDUCTANCE: October 1999 to current year.
- TURBIDITY: October 2000 to current year.

INSTRUMENTATION.--Water-quality data recorder since October 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--

- WATER TEMPERATURE: Maximum, 21.0 °C July 27, 29-31, Aug. 1, 2003; minimum, 0.0 °C many days during winter months..
- SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 70 microsiemens/cm Nov. 30, 2003; minimum recorded daily mean, 8 microsiemens/cm April 15, 2002.
- TURBIDITY: Maximum recorded , >1000 NTU Apr. 14, May 20, 2002; minimum recorded, <2 NTU on many days during the year.

EXTREMES FOR CURRENT YEAR.--

- WATER TEMPERATURE: Maximum, 21.0 °C July 27, 29-31, Aug. 1; minimum, 0.5 °C Jan. 10, Feb. 24-28.
- SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 70 microsiemens/cm Nov. 30; minimum recorded daily mean, 18 microsiemens/cm Mar. 23.
- TURBIDITY: Maximum recorded, 180 NTU Mar. 22-23; minimum recorded, <2 NTU on many days during the year.

REMARKS.--Turbidity data collected prior to 2001 water year not published.

Temperature, water, degrees Celsius  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	9.0	3.0	1.5	3.0	2.0	3.0	2.5	5.0	4.5	2.5	1.5
2	10.5	8.5	3.0	1.5	3.0	2.5	3.5	3.0	4.5	4.0	2.5	1.5
3	10.0	9.0	2.5	1.5	3.0	2.0	3.5	3.0	4.0	3.5	3.0	1.5
4	11.5	9.5	3.0	1.5	3.0	2.5	3.5	3.0	4.0	3.5	3.0	1.5
5	11.0	9.5	3.0	1.5	3.5	2.5	4.0	3.0	3.5	3.0	2.5	2.0
6	11.5	9.5	3.0	2.0	3.0	2.5	3.0	2.5	3.0	2.5	2.5	1.5
7	11.5	9.5	3.5	2.5	3.0	2.5	2.5	2.0	3.0	2.0	2.0	1.0
8	11.0	9.0	3.5	3.0	3.5	3.0	2.0	1.5	3.0	2.5	2.5	1.0
9	11.0	9.0	4.0	3.5	3.0	2.0	2.0	1.0	3.5	2.5	3.0	1.5
10	10.0	9.0	4.0	3.5	3.0	2.5	1.0	0.5	3.5	2.0	3.0	2.0
11	9.0	8.0	4.0	3.5	3.0	2.5	2.0	1.0	3.0	1.5	3.0	2.5
12	9.0	7.0	4.5	3.5	3.5	3.0	2.5	1.5	2.5	1.5	4.0	3.0
13	8.5	6.5	5.0	4.0	3.5	3.0	3.0	2.0	2.5	1.5	5.0	3.5
14	8.5	6.5	4.5	4.0	4.0	3.5	3.0	2.5	3.0	2.0	4.5	4.0
15	8.5	6.5	4.5	3.5	4.0	3.5	3.0	2.0	3.5	2.0	5.5	4.0
16	8.5	6.5	4.5	3.5	4.0	3.5	2.5	1.5	3.5	2.5	5.5	4.0
17	8.5	6.5	4.5	4.0	3.5	3.0	2.0	1.5	3.5	2.5	5.0	4.0
18	8.0	6.0	5.0	4.0	3.0	2.5	2.0	1.5	3.5	2.5	5.0	3.5
19	8.0	6.0	5.0	4.5	2.5	2.0	2.5	1.5	3.5	2.5	5.5	3.5
20	8.5	6.5	5.5	4.5	2.5	1.5	2.5	2.0	3.5	3.0	5.5	3.5
21	8.5	6.5	5.5	4.5	2.0	1.5	2.0	1.5	4.0	2.5	5.5	4.0
22	8.0	6.0	5.5	5.0	2.5	2.0	2.0	1.5	4.0	3.0	5.0	4.5
23	7.0	5.5	5.5	4.5	2.5	2.0	3.0	2.0	3.0	1.0	5.0	4.0
24	6.0	4.5	4.5	3.0	2.0	1.5	2.5	2.0	1.5	0.5	5.0	4.0
25	6.0	4.0	3.5	3.0	2.5	1.5	3.0	2.5	1.5	0.5	5.0	4.0
26	5.5	4.0	3.0	2.5	2.5	2.0	4.0	3.0	2.0	0.5	5.0	4.0
27	5.0	3.5	3.0	2.0	2.5	2.0	4.5	4.0	2.5	0.5	5.0	3.5
28	5.5	5.0	2.5	2.0	3.0	2.5	4.5	3.5	1.5	0.5	5.0	3.5
29	5.0	3.0	2.5	2.0	3.0	2.0	4.0	3.0	---	---	5.5	3.5
30	4.0	2.5	2.5	2.0	2.5	2.0	4.5	3.5	---	---	7.0	4.5
31	3.5	2.0	---	---	3.0	2.5	5.0	4.0	---	---	6.5	5.0
MONTH	11.5	2.0	5.5	1.5	4.0	1.5	5.0	0.5	5.0	0.5	7.0	1.0

## SPOKANE RIVER BASIN

## 12413370 EAST FORK PINE CREEK ABOVE NABOB CREEK NEAR PINEHURST, ID--Continued

Temperature, water, degrees Celsius  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	4.5	8.5	6.0	11.0	8.5	17.5	13.0	21.0	16.5	18.0	14.5
2	5.0	4.0	9.0	5.5	12.0	9.0	17.5	13.5	19.5	16.5	18.5	14.5
3	5.0	3.5	7.0	6.0	13.0	9.0	17.5	12.5	18.5	17.0	18.0	14.5
4	5.5	3.5	7.0	5.5	13.5	8.5	17.5	12.5	20.0	16.5	18.0	15.0
5	5.5	3.5	6.5	5.5	14.5	9.0	16.5	13.0	19.5	16.0	18.0	15.0
6	5.5	3.5	6.5	5.0	14.5	10.0	17.5	13.5	20.5	16.5	18.0	15.0
7	6.5	4.0	6.5	5.0	15.0	10.0	17.5	13.5	20.0	16.5	17.5	15.5
8	7.5	4.5	7.5	4.5	15.0	10.5	17.0	14.5	20.0	16.0	16.0	14.5
9	7.0	5.0	8.5	5.0	16.0	11.0	18.0	13.5	20.5	16.0	16.0	14.5
10	8.0	5.0	9.0	5.5	14.0	11.5	19.0	14.0	20.5	16.5	15.5	14.5
11	6.5	5.5	8.5	5.5	13.5	11.0	19.0	14.5	20.0	16.0	15.0	14.5
12	6.0	5.0	8.5	6.5	15.0	10.5	19.5	15.0	20.0	16.0	15.5	13.5
13	7.0	5.0	10.5	6.5	13.5	11.5	17.5	15.0	19.5	15.5	16.0	12.5
14	7.0	5.0	10.0	6.5	13.0	11.0	18.5	14.0	20.0	15.5	15.0	12.5
15	6.5	4.0	7.5	6.5	15.5	10.5	19.0	14.5	19.5	16.0	15.0	13.0
16	6.5	4.5	7.5	5.5	16.0	11.0	20.0	15.5	19.0	17.0	14.0	12.5
17	6.0	4.5	7.5	5.0	17.0	11.5	19.5	15.5	19.5	16.0	13.5	12.0
18	6.5	4.5	7.0	5.0	17.5	12.5	20.0	15.0	20.0	16.0	14.5	11.5
19	7.5	4.0	9.0	5.0	17.0	13.5	20.0	15.5	20.0	16.0	14.5	12.0
20	8.0	4.5	8.5	5.0	14.0	12.0	20.0	15.5	19.0	16.0	14.5	12.0
21	8.5	5.0	8.5	6.5	13.0	11.5	20.5	16.0	19.5	15.5	14.5	11.5
22	8.0	6.0	10.0	6.5	12.5	11.0	20.5	16.0	17.0	16.5	---	---
23	8.0	6.0	12.0	7.5	14.0	10.5	20.5	16.0	18.0	16.0	---	---
24	8.0	5.5	13.0	8.0	15.5	11.0	20.5	16.5	18.5	15.5	14.5	11.0
25	7.0	5.0	11.0	8.5	16.0	11.0	20.0	16.5	19.0	15.0	14.5	11.5
26	6.5	5.0	11.0	8.0	17.0	12.0	20.5	16.5	19.0	15.5	14.5	12.0
27	7.0	4.5	12.0	8.0	17.0	12.5	21.0	16.5	18.5	15.5	14.5	11.5
28	8.0	4.5	12.5	8.5	17.5	12.5	20.5	16.0	18.5	15.0	14.5	11.5
29	7.0	5.5	13.5	9.0	18.0	13.0	21.0	16.0	18.5	15.0	14.0	11.5
30	8.5	5.5	10.5	9.5	18.0	14.0	21.0	16.5	18.5	14.5	13.5	11.0
31	---	---	10.5	9.0	---	---	21.0	16.5	18.0	14.5	---	---
MONTH	8.5	3.5	13.5	4.5	18.0	8.5	21.0	12.5	21.0	14.5	---	---

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	61	69	47	24	42	26	28	29	47	58	64
2	59	61	69	47	27	43	25	28	30	48	58	64
3	59	61	69	41	28	43	25	27	31	48	59	64
4	59	61	68	41	29	43	26	27	32	48	58	64
5	59	61	68	39	30	44	27	27	33	49	58	64
6	59	61	68	39	31	44	28	27	34	49	58	65
7	59	60	68	41	32	44	29	28	34	49	58	65
8	60	61	67	42	33	45	30	29	35	49	58	66
9	60	60	67	43	33	45	30	29	36	49	59	65
10	60	62	67	44	34	44	29	30	36	50	59	64
11	60	62	67	46	35	42	27	30	37	51	60	63
12	60	63	66	46	36	36	25	30	37	51	60	63
13	60	63	63	44	36	33	24	30	38	51	60	63
14	60	63	57	42	37	30	23	28	39	52	60	63
15	60	64	55	40	37	28	23	26	39	52	61	63
16	60	65	51	40	37	28	24	26	40	52	61	64
17	60	66	51	41	37	29	25	27	41	53	61	63
18	60	66	53	41	38	30	26	28	42	53	61	63
19	60	66	54	42	38	31	27	29	42	54	62	62
20	60	66	56	43	38	31	27	30	42	54	62	63
21	60	66	57	44	38	31	27	31	42	54	62	63
22	60	66	58	44	39	26	26	31	43	55	62	---
23	61	67	58	43	40	18	25	31	43	55	62	---
24	61	64	59	42	41	20	24	29	44	56	62	64
25	61	65	60	41	41	24	24	26	44	56	62	64
26	61	66	60	35	41	25	24	26	45	56	63	64
27	60	67	58	28	42	28	25	27	46	57	63	64
28	61	68	52	30	42	29	26	27	46	57	63	65
29	61	69	49	31	---	30	27	27	47	57	63	65
30	60	70	48	32	---	31	27	28	47	58	63	65
31	60	---	48	28	---	30	---	29	---	58	63	---
MEAN	60	64	60	40	36	34	26	28	39	53	61	---

SPOKANE RIVER BASIN

12413370 EAST FORK PINE CREEK ABOVE NABOB CREEK NEAR PINEHURST, ID--Continued

Turbidity, water, unfiltered, nephelometric turbidity units  
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	170	4.5	<2.0	<2.0
2	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.8	<2.0	6.2	<2.0	<2.0	<2.0
3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.2	<2.0	14	<2.0	<2.0	<2.0
4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
6	<2.0	<2.0	2.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	11	<2.0	<2.0	<2.0
9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.2	<2.0	<2.0	<2.0
10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	12	<2.0
12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5.9	<2.0
13	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	27	<2.0
14	<2.0	<2.0	<2.0	<2.0	14	<2.0	7.9	<2.0	<2.0	<2.0	<2.0	<2.0
15	<2.0	<2.0	<2.0	<2.0	2.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
16	<2.0	<2.0	<2.0	<2.0	2.9	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	<2.0
17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.8	<2.0
18	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.3	<2.0
19	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
21	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
22	<2.0	<2.0	5.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	180	<2.0
23	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	180	6.4
24	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	6.7	<2.0
25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.2	<2.0
26	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	32	<2.0	<2.0	<2.0	5.3	<2.0
27	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	8.1	<2.0	<2.0	<2.0	4.7	<2.0
28	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.2	<2.0
29	<2.0	<2.0	<2.0	<2.0	13	<2.0	<2.0	<2.0	---	---	<2.0	<2.0
30	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	51	<2.0	---	---	<2.0	<2.0
31	<2.0	<2.0	---	---	<2.0	<2.0	170	<2.0	---	---	<2.0	<2.0
MONTH	2.5	2.0	5.8	2.0	14	2.0	170	2.0	170	2.0	180	2.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	<2.0	<2.0	<2.0	<2.0	2.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
3	<2.0	<2.0	2.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4	2.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	3.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9	<2.0	<2.0	<2.0	<2.0	4.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
10	<2.0	<2.0	77	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	6.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
13	40	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
14	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
16	<2.0	<2.0	11	<2.0	<2.0	<2.0	5.9	<2.0	<2.0	<2.0	<2.0	<2.0
17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
18	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
19	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.6	<2.0	<2.0	<2.0
20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.6	<2.0	<2.0	<2.0	<2.0	<2.0
21	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
22	48	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	---	---
23	2.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	---	---
24	5.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
25	<2.0	<2.0	6.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
26	<2.0	<2.0	12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
27	8.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
28	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
29	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
30	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
31	---	---	<2.0	<2.0	---	---	<2.0	<2.0	<2.0	<2.0	---	---
MONTH	48	2.0	77	2.0	4.1	2.0	5.9	2.0	4.6	2.0	---	---

< Actual value is known to be less than the value shown

## SPOKANE RIVER BASIN

## 12413445 PINE CREEK BELOW AMY GULCH NEAR PINEHURST, ID

LOCATION.--Lat 47°30'57", long 116°14'24", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.8, T.48 N., R.2 E., Shoshone County, Kellog West quad., Hydrologic Unit 17010302, on left bank, 3.2 mi upstream from South Fork Coeur d'Alene River and 1.0 mi south of Pinehurst city limits.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,285 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,220 ft<sup>3</sup>/s Apr. 14, 2002; minimum daily, 9.1 ft<sup>3</sup>/s Sept. 24, 26, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,970 ft<sup>3</sup>/s Feb. 1; minimum daily, 12 ft<sup>3</sup>/s Aug. 31 to Sept. 9, Sept. 15, 25-30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	13	16	95	1970	64	403	183	170	33	17	12
2	16	13	16	83	833	61	401	188	148	32	17	12
3	16	13	16	170	508	59	338	210	130	31	17	12
4	16	13	15	168	363	57	283	218	116	30	18	12
5	16	13	15	166	275	55	251	212	105	30	18	12
6	16	13	15	143	218	54	227	201	97	29	18	12
7	15	13	15	106	178	53	202	188	91	28	18	12
8	15	13	15	85	153	50	186	172	86	28	18	12
9	15	15	14	70	132	51	191	157	81	28	17	12
10	15	16	14	60	115	58	210	146	76	27	17	13
11	15	16	14	54	101	99	259	144	73	26	17	13
12	15	16	15	50	90	259	317	158	68	26	16	13
13	15	16	16	52	84	382	341	172	66	25	16	13
14	14	16	40	60	79	480	364	203	62	25	16	13
15	14	16	69	78	72	513	338	235	58	24	15	12
16	14	17	132	78	81	575	284	219	55	24	15	13
17	14	17	118	71	91	504	264	191	52	23	15	13
18	14	17	73	65	95	388	255	169	50	23	15	13
19	14	17	55	59	95	305	232	145	48	22	15	14
20	14	17	46	55	105	260	221	132	48	22	14	14
21	13	17	40	51	128	227	223	123	46	21	14	13
22	13	17	36	48	153	928	253	119	45	21	14	13
23	13	17	32	53	140	1470	293	132	43	21	14	13
24	13	18	30	64	111	783	312	198	42	20	14	13
25	13	18	28	85	97	536	321	325	40	20	14	12
26	13	17	26	474	88	445	293	277	39	20	14	12
27	13	17	30	798	78	390	246	227	37	19	13	12
28	13	17	36	438	70	328	217	216	36	19	13	12
29	13	17	51	310	---	274	201	221	35	18	13	12
30	14	16	65	308	---	244	190	211	34	18	13	12
31	13	---	92	1130	---	268	---	196	---	17	12	---
TOTAL	443	471	1195	5527	6503	10220	8116	5888	2077	750	477	376
MEAN	14.3	15.7	38.5	178	232	330	271	190	69.2	24.2	15.4	12.5
MAX	16	18	132	1130	1970	1470	403	325	170	33	18	14
MIN	13	13	14	48	70	50	186	119	34	17	12	12
AC-FT	879	934	2370	10960	12900	20270	16100	11680	4120	1490	946	746

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2003, BY WATER YEAR (WY)

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
MEAN	15.8	52.3	88.5	137	152	232	369	377	191	41.2	20.5	14.8
MAX	19.3	116	170	216	232	330	599	624	394	75.7	29.9	18.0
(WY)	2000	2000	2000	2002	2003	2003	2002	2002	2002	1999	1999	1999
MIN	13.6	15.7	13.5	14.8	17.1	74.0	143	190	53.9	24.2	14.4	10.0
(WY)	1999	2003	2001	2001	2001	2001	2001	2003	2001	2003	2001	2001

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1998 - 2003
ANNUAL TOTAL	71080	42043	
ANNUAL MEAN	195	115	146
HIGHEST ANNUAL MEAN			201
LOWEST ANNUAL MEAN			55.8
HIGHEST DAILY MEAN	3220	1970	3220
LOWEST DAILY MEAN	13	12	9.1
ANNUAL SEVEN-DAY MINIMUM	13	12	9.2
ANNUAL RUNOFF (AC-FT)	141000	83390	106100
10 PERCENT EXCEEDS	553	288	397
50 PERCENT EXCEEDS	64	43	58
90 PERCENT EXCEEDS	15	13	14

SPOKANE RIVER BASIN

12413445 PINE CREEK BELOW AMY GULCH NEAR PINEHURST, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1998 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: February 1999 to current year.  
 SPECIFIC CONDUCTANCE: February 1999 to current year.  
 TURBIDITY: October 2000 to current year.

INSTRUMENTATION.--Water-quality data recorder since February 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 16.0 °C Aug. 7, 2001, Aug. 1, 6-7, 9-10, 14, 18-19, 2003; minimum recorded, 1.5 °C on Feb. 19, 2000, Feb. 25-26, 2002, Feb. 24, 2003.  
 SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 50 microsiemens/cm Oct. 31, 2002, Dec. 15, 2002; minimum recorded daily mean, 15 microsiemens/cm May 24, 30, June 16-17, 1999, May 29-30, 2002.  
 TURBIDITY: Maximum recorded >1000 NTU April 14, 2002; minimum recorded <2 NTU on many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 16.0 °C Aug. 1, 6-7, 9-10, 14, 18-19; minimum recorded, 1.5°C Feb. 24.  
 SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 50 microsiemens/cm Dec. 15; minimum recorded daily mean, 19 microsiemens/cm Feb. 1, Mar. 23.  
 TURBIDITY: Maximum recorded, 620 NTU Jan. 31, Feb. 1; minimum recorded, <2 NTU on many days during the year.

REMARKS.--Turbidity data collected prior to 2001 water year not published. Missing record due to equipment failure.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Ammonia, water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L (00666)	
OCT	29...	1500	14	38	7.0	- .5	8.8	14	3.5	1.2	<.015	<.1	.030	E.002
DEC	10...	1455	14	42	6.5	2.0	6.9	14	3.6	1.2	<.015	<.1	E.083	<.004
FEB	03...	1225	502	21	6.4	5.5	4.1	8	1.9	.66	<.015	E.08	.050	E.003
MAY	29...	0915	226	19	6.8	17.5	8.5	8	2.07	.647	<.015	<.1	<.022	E.002
JUN	24...	1515	42	33	6.5	19.5	12.0	10	2.69	.899	<.015	<.1	<.022	E.003
AUG	21...	1255	14	36	7.0	23.5	14.9	13	3.53	1.14	<.015	E.06	.032	E.002

  

Date	Phosphorus, water, unfltrd mg/L (00665)	Cadmium, water, fltrd, ug/L (01025)	Cadmium, water, unfltrd ug/L (01027)	Iron, water, unfltrd recover-able, ug/L (01045)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover-able, ug/L (01051)	Manganese, water, unfltrd recover-able, ug/L (01055)	Manganese, water, fltrd, ug/L (01056)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover-able, ug/L (01092)	
OCT	29...	<.004	.450	.354	<16	<10	.53	.54	.40	.29	118	112
DEC	10...	.004	.379	.362	<16	<10	.26	.31	E.20	E.15	123	119
FEB	03...	.007	.289	.251	85.0	E9	.58	1.81	2.85	.69	90.8	93.4
MAY	29...	E.003	.225	.252	E11.6	<8.0	.34	.44	.65	.29	59.4	62.0
JUN	24...	E.002	.343	.359	7	<8	.29	.37	.99	.30	93.0	91.9
AUG	21...	E.003	.328	.335	<6	<8	.17	.28	.32	.22	96.0	100

< Less than  
 E Estimated value

## SPOKANE RIVER BASIN

## 12413445 PINE CREEK BELOW AMY GULCH NEAR PINEHURST, ID--Continued

Temperature, water, degrees Celsius  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

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

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	4.5	8.5	5.5	---	---	14.0	9.5	16.0	11.0	15.5	11.5
2	5.5	4.0	9.0	5.5	---	---	14.0	10.0	14.5	11.5	15.5	11.5
3	5.0	4.0	7.0	5.5	---	---	14.0	9.5	13.5	12.0	15.0	11.5
4	5.5	3.5	7.0	5.5	---	---	14.0	9.5	15.5	12.0	15.0	11.5
5	5.5	3.5	6.5	5.5	12.5	7.5	12.5	9.5	15.0	11.5	15.0	12.0
6	6.0	3.5	7.0	5.0	12.5	8.0	14.0	10.0	16.0	12.0	15.5	11.5
7	7.0	4.0	7.0	5.0	13.0	8.0	14.0	10.0	16.0	11.5	14.0	12.0
8	8.0	4.5	8.0	4.5	12.5	8.5	13.5	10.5	15.5	11.5	12.5	12.0
9	7.0	4.5	8.0	5.0	13.0	8.5	14.5	10.0	16.0	11.5	14.0	11.5
10	8.0	4.5	9.0	5.5	11.5	9.0	14.5	10.0	16.0	11.5	13.0	11.5
11	6.5	5.0	8.5	5.5	11.5	8.5	14.5	10.5	16.0	11.5	13.0	12.0
12	6.0	5.0	8.5	6.0	12.5	8.5	15.0	10.5	15.5	11.5	13.5	11.5
13	7.0	5.0	9.5	6.0	11.5	9.0	12.5	10.5	15.5	11.5	14.5	11.0
14	7.5	5.0	9.0	6.0	10.5	9.0	14.0	10.5	16.0	11.5	14.0	11.0
15	6.5	4.0	7.5	6.0	13.0	8.5	14.5	10.5	15.5	11.5	14.0	11.0
16	6.5	4.5	8.0	5.5	13.0	8.5	15.0	11.0	15.5	12.0	12.0	11.0
17	6.0	4.5	8.0	5.0	13.5	8.5	15.0	11.0	15.5	12.0	12.5	11.0
18	6.5	4.5	7.5	5.5	14.0	9.0	15.0	10.5	16.0	11.5	14.0	10.5
19	8.0	4.5	9.0	5.0	13.5	9.5	15.0	10.5	16.0	11.5	13.5	11.5
20	8.5	4.5	8.0	5.5	10.0	9.5	15.0	10.5	15.0	12.0	14.0	11.0
21	8.5	5.0	8.0	6.5	11.0	9.0	15.5	11.0	15.5	11.5	14.0	10.5
22	7.5	5.5	9.5	6.0	10.5	9.0	15.5	11.0	13.0	12.0	14.0	10.5
23	8.0	5.5	11.0	7.0	13.0	8.5	15.5	11.0	14.5	12.0	14.0	11.0
24	7.5	5.0	12.0	7.0	13.0	8.5	15.0	11.0	15.0	11.5	14.0	10.5
25	7.0	5.0	9.5	7.5	13.5	9.0	14.5	11.0	15.5	11.5	14.5	11.0
26	6.5	5.0	10.0	7.5	14.0	9.5	15.5	11.5	15.5	11.5	14.5	11.0
27	8.0	4.5	11.5	7.5	13.5	9.5	15.5	11.0	15.5	12.0	14.0	11.0
28	9.0	4.5	---	---	14.0	9.5	15.5	11.0	15.5	11.5	14.5	11.0
29	6.5	5.5	---	---	14.5	9.5	15.5	11.0	15.0	11.5	14.0	11.0
30	8.5	5.5	---	---	14.0	10.0	15.5	11.0	15.5	11.5	14.0	10.5
31	---	---	---	---	---	---	15.5	11.0	15.0	11.5	---	---
MONTH	9.0	3.5	---	---	---	---	15.5	9.5	16.0	11.0	15.5	10.5

SPOKANE RIVER BASIN

12413445 PINE CREEK BELOW AMY GULCH NEAR PINEHURST, ID--Continued

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius  
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	40	43	38	19	29	22	22	---	31	35	39
2	38	40	42	38	21	29	21	22	---	31	35	39
3	38	40	43	35	22	29	22	22	---	31	35	39
4	38	40	42	34	23	29	22	22	---	31	35	39
5	38	40	43	32	24	29	23	22	24	31	36	39
6	38	40	42	32	24	29	23	22	25	32	36	39
7	38	40	42	33	25	29	23	22	25	32	36	40
8	38	40	42	33	25	29	24	22	25	32	36	39
9	38	41	42	34	26	29	24	23	26	32	37	40
10	39	41	42	34	26	30	24	23	26	32	37	40
11	39	41	42	34	26	30	23	23	26	32	37	40
12	39	41	42	34	26	28	21	23	27	32	37	40
13	39	42	43	35	27	26	21	23	27	32	37	41
14	39	42	48	34	27	24	20	22	27	32	37	41
15	39	42	50	32	27	23	20	21	27	32	37	41
16	39	42	41	32	27	22	21	21	28	33	37	41
17	39	43	40	32	27	22	21	22	28	33	37	41
18	39	43	41	32	27	23	22	22	28	33	37	42
19	39	42	40	32	28	23	22	23	29	33	38	42
20	39	42	40	32	28	24	22	23	29	33	38	42
21	39	42	40	32	28	24	22	23	29	33	38	42
22	39	42	40	32	28	21	22	24	29	33	38	42
23	39	42	40	33	29	19	21	24	29	34	38	42
24	39	42	40	33	29	20	21	22	30	34	38	42
25	39	42	40	32	29	21	20	20	30	34	38	42
26	39	42	39	27	29	22	20	20	30	34	38	43
27	40	42	40	22	29	23	21	21	30	34	38	43
28	40	42	42	24	29	24	21	---	30	34	38	43
29	40	42	43	25	---	24	22	---	31	34	39	43
30	40	44	41	25	---	25	22	---	31	35	39	43
31	40	---	39	21	---	24	---	---	---	35	39	---
MEAN	39	41	42	32	26	25	22	---	---	33	37	41
MAX	40	44	50	38	29	30	24	---	---	35	39	43
MIN	38	40	39	21	19	19	20	---	---	31	35	39

Turbidity, water, unfiltered, nephelometric turbidity units  
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	620	82	5.4	<2.0
2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	82	6.3	<2.0	<2.0
3	<2.0	<2.0	<2.0	<2.0	4.1	<2.0	3.8	<2.0	11	<2.0	<2.0	<2.0
4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.9	<2.0	<2.0	<2.0
5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	12	<2.0	<2.0	<2.0	<2.0	<2.0
7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.7	<2.0	3.7	<2.0
9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.7	<2.0	<2.0	<2.0
10	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	<2.0	<2.0	7.5	<2.0	<2.0	<2.0	5.1	<2.0	<2.0	<2.0	<2.0	<2.0
12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.5	<2.0	<2.0	<2.0	2.3	<2.0
13	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.2	<2.0
14	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.3	<2.0
15	<2.0	<2.0	<2.0	<2.0	4.6	<2.0	8.8	<2.0	<2.0	<2.0	16	<2.0
16	<2.0	<2.0	<2.0	<2.0	4.3	<2.0	3.2	<2.0	<2.0	<2.0	4.4	<2.0
17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.7	<2.0
18	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.2	<2.0	<2.0	<2.0
19	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
21	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
22	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.7	<2.0	<2.0	<2.0	260	<2.0
23	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	<2.0	<2.0	<2.0	<2.0	210	30
24	2.1	<2.0	<2.0	<2.0	<2.0	<2.0	4.1	<2.0	<2.0	<2.0	30	4.2
25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5.6	<2.0
26	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	48	<2.0	<2.0	<2.0	3.5	<2.0
27	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	41	3.0	<2.0	<2.0	3.2	<2.0
28	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	6.1	<2.0	2.2	<2.0	<2.0	<2.0
29	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.7	<2.0	---	---	<2.0	<2.0
30	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.1	<2.0	---	---	5.0	<2.0
31	<2.0	<2.0	---	---	2.3	<2.0	620	<2.0	---	---	<2.0	<2.0
MONTH	2.5	2.0	7.5	2.0	4.6	2.0	620	2.0	620	2.0	260	2.0

< Actual value is known to be less than the value shown

SPOKANE RIVER BASIN

12413445 PINE CREEK BELOW AMY GULCH NEAR PINEHURST, ID--Continued

Turbidity, water, unfiltered, nephelometric turbidity units  
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	<2.0	<2.0	<2.0	<2.0	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2	<2.0	<2.0	6.3	<2.0	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
3	<2.0	<2.0	6.3	<2.0	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4	<2.0	<2.0	<2.0	<2.0	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
6	<2.0	<2.0	3.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9	16	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
13	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
14	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
16	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
18	2.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
19	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
21	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
22	2.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
23	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
24	6.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
26	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
27	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
28	<2.0	<2.0	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
29	<2.0	<2.0	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
30	2.3	<2.0	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
31	---	---	---	---	---	---	<2.0	<2.0	2.3	<2.0	---	---
MONTH	16	2.0	---	---	---	---	2.0	2.0	2.3	2.0	2.0	2.0

< Actual value is known to be less than the value shown



SPOKANE RIVER BASIN

12413470 SOUTH FORK COEUR D'ALENE RIVER NEAR PINEHURST, ID

LOCATION.--Lat 47°33'06", long 116°14'13", in SW¼SE¼NW¼ sec.32, T.49 N., R.2 E., Shoshone County, Kellogg West quad., Hydrologic Unit 17010302, on right bank, 130 ft upstream from abandoned Union Pacific Railroad bridge, 0.75 mi downstream from Pine Creek, 1.0 mi north of Pinehurst, 1.0 mi upstream from Bear Creek, 1.0 mi southeast of Enaville and at mile 1.4.

DRAINAGE AREA.--299 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,190 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft<sup>3</sup>/s Feb. 9, 1996, gage height, 17.43 ft, from rating curve extended above 6,000 ft<sup>3</sup>/s on basis of contracted opening and flow-over-road measurement of peak flow; minimum, 45 ft<sup>3</sup>/s Jan. 4, 1988, gage height, 7.19 ft and Oct. 27, 1998, gage height, 6.80 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above a base discharge of 2,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 1	0330	*4,800	*12.80	Mar. 23	0400	3,610	11.83

Minimum, 76 ft<sup>3</sup>/s Oct. 31, gage height, 7.43 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	92	105	287	3820	279	1150	715	955	213	117	91
2	109	95	103	267	1980	269	1160	715	861	206	116	90
3	111	96	102	373	1230	263	1040	759	773	200	132	86
4	113	97	101	391	899	254	941	792	711	195	129	85
5	118	98	100	395	728	249	865	784	663	192	122	84
6	113	99	99	370	618	246	791	750	628	189	137	84
7	110	99	97	323	545	246	733	707	602	184	124	86
8	109	123	97	284	490	239	677	656	584	187	121	97
9	109	130	96	254	450	245	704	617	563	181	116	112
10	107	129	97	225	416	275	737	586	543	177	112	99
11	105	125	103	217	385	338	880	577	513	171	108	96
12	104	121	99	212	360	559	995	613	473	165	108	99
13	104	135	130	228	342	753	1060	649	456	161	106	94
14	104	127	207	228	326	1030	1200	734	427	160	106	93
15	105	119	337	239	309	1150	1060	875	396	155	107	91
16	104	111	379	235	325	1250	961	857	373	155	105	94
17	105	113	355	224	348	1150	917	774	356	149	105	105
18	104	108	268	214	348	953	891	702	342	146	101	103
19	104	118	225	205	342	812	807	632	332	143	100	98
20	102	119	199	198	354	738	767	587	338	139	97	94
21	101	117	179	193	392	674	776	560	319	137	99	94
22	100	122	165	190	445	1650	867	548	302	136	102	93
23	98	136	153	215	427	3050	978	593	285	134	102	92
24	99	135	145	224	377	1990	1010	810	275	132	100	90
25	99	120	138	252	360	1390	1070	1400	263	131	97	87
26	102	115	135	685	344	1210	1020	1370	248	129	97	86
27	101	115	169	1240	325	1090	913	1150	240	127	95	87
28	102	112	202	800	297	967	823	1130	234	125	95	90
29	110	109	252	610	---	874	774	1220	227	123	92	85
30	94	107	253	632	---	799	747	1190	220	120	91	84
31	89	---	283	1670	---	872	---	1080	---	117	90	---
TOTAL	3246	3442	5373	12080	17582	25864	27314	25132	13502	4879	3329	2769
MEAN	105	115	173	390	628	834	910	811	450	157	107	92.3
MAX	118	136	379	1670	3820	3050	1200	1400	955	213	137	112
MIN	89	92	96	190	297	239	677	548	220	117	90	84
AC-FT	6440	6830	10660	23960	34870	51300	54180	49850	26780	9680	6600	5490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2003, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	122	279	368	413	599	698	1221	1333	786	270	145	112					
MAX	252	977	1544	963	2104	1137	1878	2839	1718	503	199	150					
(WY)	1996	1996	1996	1997	1996	1997	2000	1997	2002	1999	1999	1997					
MIN	78.8	83.1	87.4	90.5	97.5	255	444	651	256	131	82.8	75.4					
(WY)	1988	1988	2001	2001	2001	2001	2001	1992	1992	1994	1994	2001					

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1987 - 2003
ANNUAL TOTAL	245312	144512	
ANNUAL MEAN	672	396	528
HIGHEST ANNUAL MEAN			846
LOWEST ANNUAL MEAN			232
HIGHEST DAILY MEAN	6390	Apr 14	3820
LOWEST DAILY MEAN	89	Oct 31	84
ANNUAL SEVEN-DAY MINIMUM	94	Oct 30	87
ANNUAL RUNOFF (AC-FT)	486600		286600
10 PERCENT EXCEEDS	1750		954
50 PERCENT EXCEEDS	283		215
90 PERCENT EXCEEDS	105		97

SPOKANE RIVER BASIN

12413470 SOUTH FORK COEUR D'ALENE RIVER NEAR PINEHURST, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1989 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May to September 1998, March 1999 to current year.

SPECIFIC CONDUCTANCE: March 1999 to current year.

TURBIDITY: October 2000 to current year.

INSTRUMENTATION.--Water quality data logger, temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 23.7 °C July 27, 1998; minimum, 0.4 °C Mar. 8, 2002.

SPECIFIC CONDUCTANCE: Maximum daily mean, 386 microsiemens/cm Oct. 2, 2001; minimum daily mean, 47 microsiemens/cm May 25, 1999

TURBIDITY: Maximum recorded, >1,000 NTU on many days; minimum recorded, <2 NTU on many days during the year.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 22.7 °C July 22; minimum, 0.7 °C Feb. 24.

SPECIFIC CONDUCTANCE: Maximum daily mean, 415 microsiemens/cm Sept. 28; minimum daily mean, 61 microsiemens/cm Mar. 23.

TURBIDITY: Maximum recorded >1,000 NTU Nov. 9-10; minimum recorded, <2 NTU on many days during the year.

REMARKS.-- Turbidity data collected prior to 2001 water year not published. Missing data due to equipment failure.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unfltrd, uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Turbidity, wat unfltrd, lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Fecal coliform, M-FC col/100 mL (31625)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, unfltrd, mg/L (00915)	Magnesium, unfltrd, mg/L (00925)
OCT 30...	1350	84	265	6.4	-2.0	4.9	--	--	--	--	110	28	10
DEC 10...	1315	95	267	6.8	2.0	5.0	--	--	--	--	110	27	10
FEB 05...	1435	712	108	7.4	1.5	5.0	--	--	--	--	41	11	3.6
MAY 28...	1510	1110	70	7.1	29.0	12.0	--	--	--	--	29	7.91	2.35
JUN 24...	1340	272	155	7.1	21.5	14.7	--	--	--	--	64	16.7	5.38
JUL 08...	1420	195	197	7.1	23.5	16.4	<1	9.3	103	S8	--	--	--
AUG 18...	1445	102	288	7.1	33.0	19.5	<1	10.1	119	S8	110	26.1	10.6
SEP 08...	1210	97	205	7.0	11.5	14.0	2	9.2	97	160	78	20.6	6.38

Date	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Sulfate, water, fltrd, mg/L (00945)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Ammonia, water, fltrd, mg/L as N (00608)	Ammonia, org-N, water, unfltrd, mg/L as N (00625)	Nitrite, water, fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, unfltrd, mg/L (00665)	Cadmium, water, fltrd, ug/L (01025)
OCT 30...	--	--	--	--	--	--	.124	.2	.182	.011	--	.034	9.80
DEC 10...	--	--	--	--	--	--	.312	.3	.229	.028	--	.046	9.87
FEB 05...	--	--	--	--	--	--	.078	.1	.166	.015	--	.024	5.53
MAY 28...	--	--	--	--	--	--	.027	E.10	.023	.009	--	.016	2.25
JUN 24...	--	--	--	--	--	--	.096	.2	.053	.017	--	.023	5.00
JUL 08...	--	--	--	--	--	--	.142	.2	.087	--	.0140	.035	--
AUG 18...	--	--	--	--	--	--	.126	.2	.163	.030	--	.049	5.90
SEP 08...	11.9	1.5	3.31	45.0	.29	11	.151	.3	.235	--	.0170	.052	--

SPOKANE RIVER BASIN

12413470 SOUTH FORK COEUR D'ALENE RIVER NEAR PINEHURST, ID--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Cadmium water, unfltrd ug/L (01027)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recover- able, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover- able, ug/L (01051)	Mangan- ese, water, fltrd, ug/L (01056)	Mangan- ese, water, unfltrd recover- able, ug/L (01055)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment load, tons/d (80155)
OCT 30...	9.45	72	224	3.21	17.1	1340	1340	1400	1490	--	--
DEC 10...	9.82	75	170	5.26	11.5	2220	2380	1560	1450	--	--
FEB 05...	5.67	38	232	4.46	25.6	147	160	716	753	--	--
MAY 28...	2.39	28.6	203	3.51	23.3	73.1	91.6	328	353	--	--
JUN 24...	5.19	69.7	131	6.03	11.0	382	405	780	781	--	--
JUL 08...	--	--	--	--	--	--	--	--	--	2	1.1
AUG 18...	6.27	105	183	6.28	12.7	320	307	818	861	2	.55
SEP 08...	--	--	--	--	--	--	--	--	--	3	.79

< Less than  
E Estimated value  
S Most probable value

Temperature, water, degrees Celsius  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	9.0	4.9	1.5	5.1	4.7	5.1	4.5	5.1	4.5	5.7	2.9
2	12.2	8.2	5.0	1.8	5.4	4.7	5.9	4.9	4.9	4.0	4.4	3.1
3	10.9	9.4	5.2	2.0	5.4	4.9	5.5	4.5	4.4	3.4	6.5	3.5
4	12.9	10.2	5.4	2.5	5.5	5.1	5.3	4.4	4.6	3.7	6.2	3.5
5	12.2	10.3	5.3	2.6	6.3	5.2	5.8	4.7	4.9	3.5	4.4	3.8
6	13.6	10.2	6.8	4.0	6.9	5.8	5.2	4.1	4.8	3.1	4.4	3.2
7	13.7	10.2	5.9	4.5	6.0	5.7	4.8	3.7	3.8	2.6	3.7	2.6
8	13.0	9.6	6.7	5.8	6.4	5.3	4.6	3.4	4.1	3.4	4.4	2.3
9	12.8	9.4	6.5	6.2	5.7	4.6	4.0	2.5	4.8	3.4	4.5	3.3
10	10.9	9.2	6.5	6.0	5.2	4.4	3.7	1.7	4.9	3.1	5.3	4.0
11	9.6	7.8	6.7	6.1	---	---	4.2	2.7	5.1	2.4	5.1	4.5
12	10.1	5.9	7.1	6.1	---	---	5.0	4.0	5.2	2.6	5.6	4.0
13	10.2	6.0	7.7	7.1	---	---	5.7	4.9	4.6	2.7	6.4	4.6
14	10.4	6.2	7.1	6.5	---	---	5.4	4.8	4.9	3.8	5.4	4.2
15	10.3	6.5	7.2	6.1	---	---	5.2	4.3	6.2	4.0	6.1	3.9
16	10.9	6.8	6.9	5.4	---	---	5.0	3.9	5.1	4.4	6.1	4.4
17	10.9	7.1	7.1	6.5	---	---	4.6	3.5	5.3	4.1	6.4	4.0
18	10.9	7.3	6.9	6.3	5.1	4.4	4.4	3.7	5.7	3.6	7.2	3.8
19	10.1	7.0	7.7	6.7	4.8	3.7	4.7	3.9	6.9	3.9	7.6	3.5
20	10.9	7.9	9.3	7.7	4.9	3.5	5.0	4.3	5.1	4.5	6.3	3.8
21	11.0	8.2	8.6	7.5	4.7	2.9	4.6	3.6	4.9	4.1	6.2	4.4
22	10.4	7.5	8.4	7.5	5.1	4.3	4.1	3.6	5.1	3.5	5.5	4.5
23	9.2	5.8	8.2	6.1	5.1	4.3	5.3	3.8	4.1	1.4	5.4	4.2
24	8.1	4.7	6.1	4.3	5.0	4.0	4.6	3.8	3.4	0.7	6.3	3.9
25	7.8	4.3	4.9	3.6	4.9	3.8	5.5	4.6	4.2	0.8	5.2	3.9
26	7.7	4.1	5.5	4.0	5.0	4.4	5.4	4.4	4.9	0.9	5.8	4.1
27	6.1	4.0	5.1	3.3	5.1	4.7	4.9	4.2	5.0	1.8	6.3	3.9
28	7.6	6.1	5.2	3.2	5.3	4.4	5.2	4.2	3.4	1.9	7.2	3.6
29	7.1	2.9	5.8	4.4	5.2	3.7	4.6	3.9	---	---	7.2	3.8
30	4.8	1.6	5.6	4.5	4.7	3.7	5.4	4.2	---	---	9.0	4.7
31	4.9	1.5	---	---	5.2	4.7	5.4	4.7	---	---	7.2	5.7
MONTH	13.7	1.5	9.3	1.5	---	---	5.9	1.7	6.9	0.7	9.0	2.3

## SPOKANE RIVER BASIN

## 12413470 SOUTH FORK COEUR D'ALENE RIVER NEAR PINEHURST, ID--Continued

Temperature, water, degrees Celsius  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	4.9	9.8	6.2	11.9	7.7	18.0	12.2	22.0	15.1	19.6	13.3
2	5.7	4.2	10.3	6.2	12.5	7.9	18.1	12.8	18.7	15.0	20.1	13.5
3	5.7	3.7	8.0	6.0	13.7	7.8	18.1	11.1	18.0	15.4	19.6	13.8
4	6.4	3.4	7.7	6.3	14.1	7.6	18.7	11.4	21.7	15.0	18.3	14.0
5	6.0	3.8	7.5	6.0	14.9	8.2	17.2	12.1	20.0	14.6	18.8	14.2
6	7.6	3.8	7.5	5.0	15.1	8.8	19.4	12.0	21.5	15.1	19.5	13.6
7	8.5	4.0	7.6	5.0	15.5	9.0	19.3	12.5	21.8	15.5	18.0	14.9
8	10.5	5.0	9.6	4.7	15.3	9.5	17.6	14.0	21.9	14.9	16.3	13.2
9	9.2	5.6	9.4	5.3	16.1	9.9	19.5	12.1	22.4	15.3	16.6	12.4
10	10.4	5.0	11.3	5.8	14.4	10.4	20.8	13.0	22.0	15.4	14.9	12.5
11	7.7	6.1	11.0	6.0	13.5	9.6	21.2	14.1	21.1	15.0	14.4	13.3
12	6.7	5.1	10.0	7.1	16.1	9.2	21.2	14.2	20.8	14.3	14.1	12.2
13	8.3	5.5	12.1	6.8	13.9	10.4	18.1	15.0	20.7	14.1	16.1	10.3
14	8.4	5.5	10.9	6.8	13.6	10.1	20.3	12.6	20.9	14.2	15.6	10.7
15	8.2	4.2	9.3	6.6	16.3	9.3	21.2	13.5	19.6	14.7	16.1	11.7
16	7.5	4.4	8.6	5.6	17.2	10.2	22.1	15.6	19.8	16.0	14.0	11.1
17	7.2	4.8	7.3	4.6	18.5	10.9	21.4	15.0	20.8	14.9	13.4	10.6
18	8.0	5.2	8.2	5.1	19.3	12.3	21.8	14.2	21.3	14.7	14.9	9.8
19	9.7	4.4	10.3	5.4	17.8	13.5	22.1	14.7	21.3	14.7	15.9	11.7
20	10.6	4.6	9.2	5.6	14.9	11.2	21.7	14.8	19.6	15.0	16.3	11.7
21	11.2	5.4	9.8	7.0	12.3	9.8	22.5	15.0	20.1	13.4	15.6	10.7
22	10.1	6.3	11.2	7.1	11.5	9.5	22.7	15.5	17.8	15.1	15.9	10.5
23	9.4	6.7	14.1	8.3	15.0	9.0	22.4	15.4	17.9	14.6	16.3	11.1
24	9.3	5.4	14.4	8.2	15.2	9.9	21.1	15.1	19.0	13.5	16.2	10.8
25	8.6	5.9	11.6	8.1	17.5	10.2	21.6	15.2	20.2	13.2	16.6	11.8
26	6.9	4.8	10.8	7.2	18.5	11.6	21.8	15.3	19.9	14.3	16.8	12.1
27	8.8	4.7	12.9	7.3	19.3	12.0	22.5	15.6	19.5	15.0	16.4	11.4
28	10.4	4.5	13.0	7.8	19.5	12.3	22.1	15.0	19.8	13.2	16.8	11.5
29	7.8	5.7	13.7	8.0	20.1	12.6	22.2	14.8	19.4	13.3	16.3	11.7
30	9.9	6.1	10.3	7.8	19.2	13.8	22.1	14.9	19.5	13.2	15.9	10.9
31	---	---	9.6	8.0	---	---	22.1	14.9	19.1	13.2	---	---
MONTH	11.2	3.4	14.4	4.6	20.1	7.6	22.7	11.1	22.4	13.2	20.1	9.8

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	239	256	162	82	155	98	100	70	176	259	320
2	228	236	241	169	94	174	98	103	77	192	259	368
3	234	230	231	150	99	155	103	100	85	195	250	233
4	257	225	257	149	111	166	99	97	90	192	223	208
5	259	236	268	138	119	170	106	98	95	197	222	208
6	266	261	277	144	133	176	105	102	96	196	225	208
7	268	278	280	169	131	201	111	105	90	206	230	209
8	276	272	285	189	140	197	112	104	90	200	258	228
9	274	261	287	192	145	196	110	104	97	198	257	196
10	279	266	287	201	150	173	111	104	104	177	289	196
11	292	263	---	208	156	144	101	103	109	206	230	201
12	258	271	---	209	146	131	93	100	115	211	196	198
13	227	258	---	197	154	109	89	95	118	216	199	200
14	233	258	---	191	145	90	87	91	119	218	258	202
15	261	253	---	170	147	84	91	84	112	204	334	202
16	251	218	---	163	144	81	97	85	120	221	306	202
17	272	216	---	181	143	88	98	93	131	223	291	258
18	280	216	171	189	155	102	98	100	136	229	256	255
19	283	225	212	198	155	110	97	106	140	231	257	293
20	282	252	196	209	143	112	98	112	139	236	197	306
21	283	258	192	208	133	119	100	116	143	217	262	304
22	267	263	196	200	144	89	96	118	136	250	350	309
23	224	256	197	204	150	61	89	112	153	256	288	311
24	245	251	209	183	159	76	87	92	157	259	274	308
25	236	265	231	190	156	87	85	66	160	245	---	242
26	269	268	240	137	154	92	86	62	165	251	---	210
27	275	276	242	82	163	92	92	70	170	252	271	232
28	274	293	221	96	161	103	97	70	177	254	303	415
29	270	276	211	114	---	111	101	65	174	256	282	307
30	266	254	202	110	---	118	99	65	158	257	301	308
31	279	---	183	89	---	117	---	66	---	250	292	---
MEAN	261	253	---	167	140	125	98	93	124	222	---	255
MAX	292	293	---	209	163	201	112	118	177	259	---	415
MIN	224	216	---	82	82	61	85	62	70	176	---	196

SPOKANE RIVER BASIN

12413470 SOUTH FORK COEUR D'ALENE RIVER NEAR PINEHURST, ID--Continued

Turbidity, water, unfiltered, nephelometric turbidity units  
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.4	<2.0	36	20	11	<2.0	6.1	<2.0	670	82	2.2	<2.0
2	23	<2.0	26	20	14	<2.0	3.6	<2.0	110	20	2.7	<2.0
3	27	<2.0	41	18	4.6	<2.0	18	3.2	22	8.4	2.0	<2.0
4	17	2.7	41	6.9	4.4	<2.0	11	2.2	11	6.2	3.3	<2.0
5	20	<2.0	32	11	4.6	<2.0	9.1	2.2	10	4.0	2.3	<2.0
6	5.5	<2.0	47	3.4	4.6	<2.0	4.4	<2.0	9.7	2.7	<2.0	<2.0
7	21	<2.0	12	2.1	5.6	<2.0	5.5	<2.0	4.1	2.0	3.1	<2.0
8	7.7	2.0	31	4.0	16	<2.0	3.0	<2.0	5.2	<2.0	<2.0	<2.0
9	48	2.2	>1000	3.4	8.0	<2.0	5.3	<2.0	3.2	<2.0	22	<2.0
10	77	3.2	1000	2.2	9.4	<2.0	2.1	<2.0	3.4	<2.0	7.2	<2.0
11	6.7	2.6	7.4	<2.0	---	---	3.0	<2.0	<2.0	<2.0	11	2.7
12	16	2.4	23	<2.0	---	---	2.2	<2.0	3.5	<2.0	13	4.5
13	14	2.7	16	5.6	---	---	3.3	<2.0	<2.0	<2.0	10	4.3
14	10	<2.0	230	3.7	---	---	4.7	<2.0	2.6	<2.0	18	7.2
15	73	<2.0	56	14	---	---	2.8	<2.0	<2.0	<2.0	10	5.4
16	73	<2.0	17	6.8	---	---	3.9	<2.0	10	<2.0	25	7.1
17	30	2.3	16	5.6	---	---	<2.0	<2.0	4.9	<2.0	10	4.0
18	19	2.9	13	3.9	5.3	<2.0	2.5	<2.0	6.0	<2.0	5.2	2.3
19	350	2.8	28	5.5	4.6	<2.0	2.5	<2.0	<2.0	<2.0	3.6	<2.0
20	62	3.1	27	4.0	2.6	<2.0	<2.0	<2.0	6.4	<2.0	3.3	<2.0
21	92	3.9	24	4.5	2.1	<2.0	<2.0	<2.0	15	<2.0	4.3	<2.0
22	100	7.2	12	4.8	2.5	<2.0	4.4	<2.0	18	2.1	320	2.3
23	100	6.4	18	4.9	3.3	<2.0	6.5	<2.0	5.8	<2.0	240	47
24	390	6.2	16	4.1	8.1	<2.0	5.2	<2.0	3.0	<2.0	47	11
25	78	5.0	15	2.3	<2.0	<2.0	7.5	<2.0	2.0	<2.0	19	6.5
26	78	4.7	42	2.6	2.1	<2.0	430	2.8	3.6	<2.0	19	6.0
27	20	5.2	350	3.2	37	<2.0	250	14	<2.0	<2.0	7.9	3.4
28	20	5.4	51	7.1	20	<2.0	20	4.7	7.1	<2.0	4.4	2.6
29	29	8.6	12	4.3	56	3.1	9.1	2.1	---	---	4.8	2.1
30	23	16	11	2.2	7.5	<2.0	9.7	3.6	---	---	4.2	<2.0
31	42	17	---	---	5.9	<2.0	700	4.2	---	---	8.2	<2.0
MONTH	390	2.0	1000	2.0	---	---	700	2.0	670	2.0	320	2.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12	4.4	7.6	<2.0	---	---	---	---	6.0	<2.0	3.2	<2.0
2	8.0	3.6	2.8	<2.0	---	---	---	---	6.5	<2.0	2.2	<2.0
3	5.2	2.3	2.9	<2.0	---	---	---	---	15	<2.0	<2.0	<2.0
4	4.1	<2.0	5.7	<2.0	---	---	---	---	<2.0	<2.0	2.9	<2.0
5	4.7	<2.0	3.7	<2.0	---	---	---	---	5.4	<2.0	<2.0	<2.0
6	3.9	<2.0	5.0	<2.0	---	---	---	---	16	<2.0	2.3	<2.0
7	3.3	<2.0	4.3	<2.0	---	---	---	---	<2.0	<2.0	2.8	<2.0
8	6.0	<2.0	2.4	<2.0	---	---	---	---	6.2	<2.0	2.7	<2.0
9	6.7	<2.0	6.4	<2.0	---	---	---	---	2.7	<2.0	5.4	<2.0
10	2.7	<2.0	2.4	<2.0	---	---	---	---	3.7	<2.0	<2.0	<2.0
11	4.0	<2.0	2.0	<2.0	---	---	---	---	<2.0	<2.0	4.8	<2.0
12	6.3	2.0	3.3	<2.0	---	---	<2.0	<2.0	2.5	<2.0	2.0	<2.0
13	4.1	2.4	2.7	<2.0	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
14	4.6	<2.0	<2.0	<2.0	---	---	<2.0	<2.0	9.2	<2.0	<2.0	<2.0
15	4.8	<2.0	3.5	<2.0	---	---	<2.0	<2.0	16	<2.0	4.0	<2.0
16	3.1	<2.0	2.9	<2.0	---	---	<2.0	<2.0	14	<2.0	2.5	<2.0
17	8.4	<2.0	3.0	<2.0	---	---	<2.0	<2.0	15	<2.0	3.6	<2.0
18	5.4	<2.0	---	---	---	---	<2.0	<2.0	11	<2.0	<2.0	<2.0
19	2.5	<2.0	---	---	---	---	<2.0	<2.0	26	<2.0	4.3	<2.0
20	<2.0	<2.0	---	---	---	---	<2.0	<2.0	17	<2.0	2.4	<2.0
21	3.8	<2.0	---	---	---	---	<2.0	<2.0	<2.0	<2.0	2.4	<2.0
22	2.6	<2.0	---	---	---	---	7.9	<2.0	2.2	<2.0	<2.0	<2.0
23	4.4	<2.0	---	---	---	---	<2.0	<2.0	2.2	<2.0	5.4	<2.0
24	3.9	<2.0	---	---	---	---	<2.0	<2.0	9.7	<2.0	4.9	<2.0
25	6.7	2.1	---	---	---	---	<2.0	<2.0	5.6	<2.0	8.5	<2.0
26	5.9	<2.0	---	---	---	---	<2.0	<2.0	2.3	<2.0	<2.0	<2.0
27	3.8	<2.0	---	---	---	---	<2.0	<2.0	3.4	<2.0	<2.0	<2.0
28	7.2	<2.0	---	---	---	---	22	<2.0	9.6	<2.0	<2.0	<2.0
29	3.7	<2.0	---	---	---	---	11	<2.0	<2.0	<2.0	<2.0	<2.0
30	3.2	<2.0	---	---	---	---	34	<2.0	5.7	<2.0	2.5	<2.0
31	---	---	---	---	---	---	21	<2.0	<2.0	<2.0	---	---
MONTH	12	2.0	---	---	---	---	---	---	26	2.0	8.5	2.0

< Actual value is known to be less than the value shown  
 > Actual value is known to be greater than the value shown

## SPOKANE RIVER BASIN

## 12413500 COEUR D'ALENE RIVER AT CATALDO, ID

LOCATION.--Lat 47°33'17", long 116°19'26", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.34, T.49 N., R.1 E., Kootenai County, Cataldo quad., Hydrologic Unit 17010303, Cataldo quadrangle, on left bank at Cataldo, downstream side of abandoned railroad bridge, 0.9 mi upstream from Interstate Highway 90, 1.5 mi downstream from old gage site, 3.4 mi upstream from Latour Creek, about 2 mi upstream from Coeur d'Alene Lake backwater, 4.9 mi downstream from South Fork, and at mile 162.9.

DRAINAGE AREA.--1,223 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--April 1911 to December 1912, July 1920 to September 1972, October 1986 to current year. Miscellaneous measurements made at this site 1972-80, published as 12413600.

REVISED RECORDS.--WSP 1396: WSP 1736: 1934 M.

GAGE.--Water-stage recorder. Gage readings have been reduced to datum of gage at 2,100.00 ft above NGVD of 1929. National Geodetic Survey adjustment in 1991 found datum to be 3.67 ft higher. Apr. 25, 1911 to Dec. 31, 1912, nonrecording gage at site 1.4 mi upstream at different datum. July 29, 1920 to Oct. 10, 1925, nonrecording gage, Oct. 11, 1925 to Sept. 30, 1972, recording gage at site 1.5 mi upstream at datum 2.84 ft lower and Aug. 22, 1986 to Feb. 3, 1997 at site 50 ft upstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,000 ft<sup>3</sup>/s Feb. 9, 1996, gage height, 51.62 ft, from rating curve extended above 30,000 ft<sup>3</sup>/s, on basis of runoff comparisons with upstream stations; maximum gage height, 56.90 ft, datum then in use, Dec. 22 or 23, 1933, (from floodmark); minimum discharge, 122 ft<sup>3</sup>/s Dec. 4, 1929; minimum gage height, 32.89 ft, Oct. 1-7, 1994.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 16, 1974 reached a discharge of 79,000 ft<sup>3</sup>/s, by indirect computation.

EXTREMES FOR CURRENT YEAR.--Peak discharges above a base discharge of 11,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 1	1330	*24,100	*43.69	Mar. 23	1845	20,500	42.82

Minimum daily, 250 ft<sup>3</sup>/s Sept. 3-7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	403	280	381	883	21800	1450	6310	2990	2650	680	348	e260
2	402	303	368	857	15900	1360	7220	2910	2390	662	345	e260
3	389	319	363	1110	9390	1310	6470	3000	2140	646	372	e250
4	385	325	362	1510	6450	1260	5620	3120	1950	629	402	e250
5	393	326	358	1600	4880	1220	4950	3120	1800	617	401	e250
6	383	335	353	1640	3930	1210	4420	2980	1690	609	415	e250
7	375	347	350	1500	3310	1170	3940	2790	1620	596	399	e250
8	366	384	347	1320	2910	1110	3570	2600	1560	597	376	e270
9	359	502	342	1150	2600	1090	3580	2420	1510	584	363	e330
10	356	569	343	968	2340	1210	3920	2270	1470	563	352	354
11	353	570	366	847	2110	1350	4590	2180	1450	543	339	343
12	352	508	377	936	1930	2350	5340	2230	1360	525	330	335
13	348	529	453	1040	1790	3850	5700	2450	1290	511	325	317
14	351	587	711	1040	1700	5470	5770	2630	1250	503	320	301
15	353	576	1380	1100	1590	7020	5620	2880	1170	493	315	290
16	350	518	1710	1100	1600	7810	5080	2900	1100	494	313	288
17	348	473	1640	1060	1790	7830	4650	2660	1050	482	312	316
18	348	440	1340	1010	1770	6780	4410	2460	1010	469	308	335
19	347	460	1090	963	1710	5650	3950	2230	976	457	302	332
20	345	530	906	917	1750	4930	3670	2040	981	443	293	314
21	342	542	777	876	2070	4450	3570	1920	959	434	293	302
22	340	520	689	855	2320	6570	3820	1840	942	426	292	295
23	336	521	651	903	2240	18200	4340	1860	915	414	299	289
24	336	544	604	937	1940	14900	4570	2170	874	405	298	283
25	334	520	564	1060	1800	9690	4650	3260	845	398	e290	278
26	333	468	542	2740	1760	7710	4480	3660	802	392	e280	272
27	332	445	575	9960	1690	6610	3990	3180	766	384	e270	271
28	334	417	691	7950	1560	5620	3520	2930	742	377	e270	272
29	358	398	792	5540	---	4900	3240	3020	722	370	e260	266
30	344	390	862	4920	---	4380	3080	2990	699	363	e260	261
31	301	---	862	7490	---	4480	---	2880	---	353	e260	---
TOTAL	10996	13646	21149	65782	106630	152940	138040	82570	38683	15419	10002	8684
MEAN	355	455	682	2122	3808	4934	4601	2664	1289	497	323	289
MAX	403	587	1710	9960	21800	18200	7220	3660	2650	680	415	354
MIN	301	280	342	847	1560	1090	3080	1840	699	353	260	250
AC-FT	21810	27070	41950	130500	211500	303400	273800	163800	76730	30580	19840	17220
CFSM	0.29	0.37	0.56	1.74	3.11	4.03	3.76	2.18	1.05	0.41	0.26	0.24
IN.	0.33	0.42	0.64	2.00	3.24	4.65	4.20	2.51	1.18	0.47	0.30	0.26

SPOKANE RIVER BASIN

12413500 COEUR D'ALENE RIVER AT CATALDO, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2003, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	563	1322	1956	1862	2589	3351	7288	6944	2701	906	481	415
MAX	1984	6529	13230	8323	10430	10340	12570	13690	6769	1906	898	839
(WY)	1928	1928	1934	1934	1996	1972	1943	1997	1933	1950	1948	1927
MIN	276	238	276	241	276	810	2489	1895	768	404	273	260
(WY)	1945	1930	1931	1930	1929	1955	1941	1992	1926	1926	1940	2001

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1911 - 2003	
ANNUAL TOTAL	1175309		664541			
ANNUAL MEAN	3220		1821		2526	
HIGHEST ANNUAL MEAN					4057	
LOWEST ANNUAL MEAN					1043	
HIGHEST DAILY MEAN	33000		21800		56000	
LOWEST DAILY MEAN	280		250		141	
ANNUAL SEVEN-DAY MINIMUM	313		253		176	
ANNUAL RUNOFF (AC-FT)	2331000		1318000		1830000	
ANNUAL RUNOFF (CFSM)	2.63		1.49		2.07	
ANNUAL RUNOFF (INCHES)	35.75		20.21		28.06	
10 PERCENT EXCEEDS	9650		4650		6820	
50 PERCENT EXCEEDS	1180		847		1110	
90 PERCENT EXCEEDS	361		303		347	

e Estimated

## SPOKANE RIVER BASIN

## 12413860 COEUR D'ALENE RIVER NEAR HARRISON, ID

LOCATION.--Lat 47°28'43", long 116°43'56", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.28, T.48 N., R.3 W., Kootenai County, Mount Coeur D'Alene quad., Hydrologic Unit 17010303, on left bank 50 ft downstream from Springston Bridge, 2.5 mi upstream from Coeur d'Alene Lake, 3.0 mi northeast of Harrison, and at mile 134.6.

DRAINAGE AREA.--1,475 mi<sup>2</sup>, approximately.

## WATER-STAGE RECORDS

PERIOD OF RECORD.--January 1991 to current year (gage heights and discharge measurements only).

GAGE.--Water-stage recorder. Datum of gage is 2,100.00 ft above NGVD of 1929. Gage heights have been reduced to that datum.

REMARKS.--Elevations affected by backwater from Coeur d'Alene Lake. Add 2,100 ft to gage heights to obtain elevations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 2,133.59 ft, May 18, 19, 1997; minimum, 2,117.99 ft, Jan. 9, 10, 2001 (corrected).

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2,125.88 ft, Feb. 3; minimum, 2,119.24 ft, Jan. 22.

GAGE HEIGHT, in FEET, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.98	21.47	20.81	20.19	23.98	21.04	24.79	23.20	24.82	24.98	25.10	25.03
2	23.93	21.39	20.77	20.17	25.30	20.94	24.84	23.13	24.94	24.97	25.10	25.03
3	23.88	21.31	20.73	20.21	25.82	20.84	24.85	23.06	25.03	24.99	25.12	25.03
4	23.84	21.25	20.69	20.26	25.80	20.75	24.77	23.05	25.08	25.01	25.17	25.02
5	23.79	21.20	20.65	20.31	25.57	20.69	24.62	23.04	25.10	25.04	25.17	25.01
6	23.73	21.16	20.61	20.35	25.25	20.60	24.44	23.01	25.12	25.07	25.17	25.01
7	23.67	21.12	20.57	20.35	24.90	20.48	24.22	22.98	25.14	25.09	25.18	25.00
8	23.59	21.15	20.53	20.28	24.54	20.40	23.99	22.93	25.16	25.12	25.18	25.04
9	23.51	21.15	20.48	20.17	24.18	20.34	23.79	22.86	25.18	25.11	25.18	25.05
10	23.43	21.17	20.42	20.03	23.83	20.31	23.65	22.79	25.20	25.12	25.17	25.05
11	23.33	21.16	20.37	19.88	23.48	20.33	23.59	22.70	25.18	25.13	25.16	25.03
12	23.24	21.14	20.32	19.77	23.15	20.41	23.63	22.62	25.15	25.13	25.14	25.00
13	23.15	21.15	20.29	19.72	22.84	20.68	23.67	22.59	25.11	25.12	25.13	24.99
14	23.06	21.16	20.30	19.69	22.56	21.08	23.74	22.58	25.08	25.08	25.13	24.94
15	22.98	21.16	20.39	19.67	22.32	21.63	23.77	22.61	25.06	25.07	25.12	24.89
16	22.90	21.15	20.53	19.64	22.12	22.23	23.77	22.64	25.09	25.07	25.11	24.82
17	22.81	21.13	20.63	19.59	22.00	22.72	23.75	22.66	25.11	25.07	25.11	24.73
18	22.73	21.10	20.65	19.52	21.85	23.02	23.72	22.65	25.12	25.07	25.10	24.61
19	22.65	21.11	20.63	19.45	21.73	23.14	23.65	22.61	25.10	25.08	25.10	24.50
20	22.57	21.11	20.58	19.38	21.62	23.18	23.54	22.55	25.07	25.08	25.09	24.41
21	22.49	21.10	20.50	19.32	21.59	23.18	23.44	22.48	25.05	25.07	25.09	24.36
22	22.41	21.09	20.42	19.30	21.60	23.35	23.38	22.47	25.03	25.08	25.09	24.30
23	22.33	21.07	20.35	19.29	21.60	24.26	23.39	22.49	25.01	25.08	25.09	24.27
24	22.22	21.06	20.30	19.31	21.55	25.16	23.45	22.56	25.03	25.07	25.08	24.24
25	22.13	21.03	20.23	19.36	21.43	25.48	23.51	22.78	25.03	25.07	25.08	24.21
26	22.03	21.00	20.19	19.63	21.32	25.57	23.55	23.14	25.02	25.07	25.08	24.17
27	21.93	20.97	20.22	20.81	21.23	25.60	23.55	23.46	25.03	25.08	25.07	24.14
28	21.84	20.93	20.19	21.61	21.13	25.51	23.50	23.73	25.03	25.09	25.06	24.11
29	21.77	20.88	20.24	21.79	---	25.34	23.40	24.01	25.02	25.09	25.07	24.08
30	21.67	20.85	20.21	22.00	---	25.11	23.29	24.32	25.01	25.10	25.05	24.04
31	21.56	---	20.23	22.46	---	24.90	---	24.65	---	25.10	25.04	---
MEAN	22.88	21.12	20.45	20.11	23.01	22.52	23.84	22.98	25.07	25.07	25.11	24.67
MAX	23.98	21.47	20.81	22.46	25.82	25.60	24.85	24.65	25.20	25.13	25.18	25.05
MIN	21.56	20.85	20.19	19.29	21.13	20.31	23.29	22.47	24.82	24.97	25.04	24.04

WTR YR 2003 MEAN 23.06 MAX 25.82 MIN 19.29



SPOKANE RIVER BASIN

12413860 COEUR D' ALENE RIVER NEAR HARRISON, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1991 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf, uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L (00666)
NOV													
05...	1125	381	105	6.8	3.0	3.4	40	9.6	3.9	<.015	E.08	.050	.004
DEC													
11...	1300	433	103	6.6	5.0	3.1	40	9.8	3.9	.022	E.08	.081	E.002
FEB													
04...	1400	9900	38	6.8	2.0	3.4	15	3.6	1.4	<.015	.1	.047	.007
JUN													
03...	1230	1870	46	7.0	22.0	12.7	20	5.07	1.73	<.015	<.1	E.012	E.003
25...	1240	628	76	7.1	22.5	18.6	31	7.92	2.80	<.015	E.06	<.022	E.004
AUG													
21...	0830	283	109	7.5	13.0	21.2	43	10.3	4.16	<.015	.1	<.022	<.004

Date	Phosphorus, water, unfltrd mg/L (00665)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Iron, water, unfltrd recover-able, ug/L (01045)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover-able, ug/L (01051)	Manganese, water, unfltrd recover-able, ug/L (01055)	Manganese, water, fltrd, ug/L (01056)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover-able, ug/L (01092)
NOV											
05...	.010	2.12	2.30	315	81	10.2	34.2	240	231	389	411
DEC											
11...	.010	2.45	2.47	297	86	5.39	16.9	365	340	432	432
FEB											
04...	.021	.667	.826	570	47	8.37	56.5	75.1	35.3	111	151
JUN											
03...	.006	1.08	1.09	94.7	39.4	5.07	10.0	40.8	41.6	166	165
25...	.012	1.56	1.64	134	56.6	7.12	17.9	77.0	64.9	246	252
AUG											
21...	.005	1.18	1.37	64	E6.7	.49	11.2	23.7	.88	184	210

< Less than  
E Estimated value

## SPOKANE RIVER BASIN

## 12413875 ST. JOE RIVER AT RED IVES RANGER STATION, ID

LOCATION.--Lat 47°03'22", long 115°21'08", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.20, T.43 N., R.9 E., Shoshone County, Red Ives Peak quad., Hydrologic Unit 17010304, on left bank downstream side of U.S. Forest Service access bridge, at Red Ives Ranger Station, and at mile 103.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,710 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for discharges June 22 to September 23, which are fair, and estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,280 ft<sup>3</sup>/s May 30, 2002, gage height, 5.42 ft; minimum daily, 38 ft<sup>3</sup>/s Dec. 25, 26, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,650 ft<sup>3</sup>/s May 31, gage height, 4.91 ft; minimum daily, 40 ft<sup>3</sup>/s Nov. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	e40	e65	81	e550	124	444	751	1930	359	139	91
2	80	e42	e65	80	374	121	402	792	1670	342	136	91
3	76	e46	e70	96	284	116	372	839	1460	328	136	89
4	76	e48	e70	92	236	111	344	872	1320	313	139	86
5	77	e50	e75	100	206	109	323	852	1230	298	136	85
6	75	e55	78	e85	e160	109	305	812	1190	286	134	84
7	74	e60	e75	e80	e160	113	292	754	1150	273	132	84
8	72	144	e75	e75	e160	116	296	710	1110	267	129	85
9	71	124	e70	e70	e140	118	318	680	1090	254	126	90
10	71	99	e75	e65	e140	130	341	664	1030	240	120	89
11	71	88	e85	e70	e140	143	403	664	988	228	120	85
12	70	88	e90	e80	e120	186	468	698	890	222	117	106
13	69	112	e95	e100	e120	189	588	759	835	212	111	100
14	67	101	141	186	157	222	619	860	778	204	110	89
15	68	89	e160	141	142	238	591	1020	738	198	105	85
16	67	84	126	e100	139	240	554	1000	711	193	108	83
17	67	87	e100	e95	135	230	536	930	686	183	105	86
18	66	83	e75	e100	129	218	520	860	665	173	106	89
19	66	84	e70	e110	126	214	490	796	624	171	106	88
20	65	91	e70	115	126	216	504	754	677	169	104	86
21	64	89	e70	111	127	211	553	751	580	166	104	83
22	64	90	e65	103	124	416	667	784	510	164	103	82
23	e60	105	e60	113	e90	525	817	946	475	159	109	80
24	e55	e70	e55	103	e85	395	857	1280	461	160	111	80
25	e55	e55	e55	102	e75	344	925	1830	454	158	105	79
26	e55	e55	e65	163	e80	316	882	2050	436	157	102	78
27	e55	e55	e85	226	e80	283	809	1980	421	153	102	77
28	e55	e55	98	163	131	256	758	2110	406	149	96	77
29	e50	e55	87	130	---	249	728	2380	392	145	94	76
30	e44	e60	79	123	---	253	719	2320	375	142	93	75
31	e42	---	78	e250	---	346	---	2440	---	141	91	---
TOTAL	2033	2304	2527	3508	4536	6857	16425	34938	25282	6607	3529	2558
MEAN	65.6	76.8	81.5	113	162	221	548	1127	843	213	114	85.3
MAX	86	144	160	250	550	525	925	2440	1930	359	139	106
MIN	42	40	55	65	75	109	292	664	375	141	91	75
AC-FT	4030	4570	5010	6960	9000	13600	32580	69300	50150	13100	7000	5070

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2003, BY WATER YEAR (WY)

MEAN	81.6	101	89.3	112	99.4	135	417	1126	1050	337	126	86.4
MAX	99.0	157	132	178	162	221	678	1349	2028	634	166	103
(WY)	2000	1998	2000	1999	2003	2003	2000	1998	2002	1999	1999	1999
MIN	65.6	55.8	53.7	55.3	57.2	79.1	161	770	393	156	84.5	60.9
(WY)	2003	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1998 - 2003
ANNUAL TOTAL	147821	111104	
ANNUAL MEAN	405	304	318
HIGHEST ANNUAL MEAN			405
LOWEST ANNUAL MEAN			169
HIGHEST DAILY MEAN	3200	May 30	2440
LOWEST DAILY MEAN	40	Nov 1	40
ANNUAL SEVEN-DAY MINIMUM	45	Oct 29	45
ANNUAL RUNOFF (AC-FT)	293200	220400	230500
10 PERCENT EXCEEDS	1450	801	882
50 PERCENT EXCEEDS	105	126	114
90 PERCENT EXCEEDS	58	67	60

e Estimated

SPOKANE RIVER BASIN

12413875 ST JOE RIVER NEAR RED IVES, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1997 to September 2002, July to September 2003.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: July to September 1999, June to September 2001, October 2001 to September 2002 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 22.0 °C Aug. 7, 2001; minimum, 0.0 °C many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unfltrd, uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Turbidity, wat unfltrd, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Fecal coliform, M-FC col/100 mL (31625)	Hardness, water, unfltrd CaCO3 mg/L as (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	
JUL	07...	1220	274	42	7.6	24.0	12.8	<1.0	8.8	97	S7	--	--	--
AUG	18...	1225	106	49	8.0	27.0	15.8	<1.0	8.2	96	S6	--	--	--
SEP	15...	1500	84	43	8.1	22.0	12.3	<1.0	9.7	104	S1	24	7.04	1.49

Date	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Potassium, water, fltrd, mg/L (00935)	Sulfate, water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Ammonia, water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd, mg/L (00665)
JUL	07...	--	--	--	--	--	--	<.015	<.10	<.022	<.007	.005
AUG	18...	--	--	--	--	--	--	<.015	E.06	<.022	<.007	.005
SEP	15...	1.20	10	.60	1.2	E.18	<.2	6.8	<.015	E.07	<.007	E.003

Date	Suspended sediment concentration, mg/L (80154)	Suspended sediment load, tons/d (80155)	
JUL	07...	1	.74
AUG	18...	1	.29
SEP	15...	3	.68

< Less than  
 E Estimated value  
 S Most probable value

SPOKANE RIVER BASIN

12414500 ST. JOE RIVER AT CALDER, ID

LOCATION.--Lat 47°16'29", long 116°11'17", in NW¼NW¼SE¼ sec.3, T.45 N., R.2 E., Shoshone County, Calder quad., Hydrologic Unit 17010304, on right bank, 125 ft downstream from road bridge at Calder, and at mile 42.9.

DRAINAGE AREA.--1,030 mi², approximately.

PERIOD OF RECORD.--April 1911 to September 1912 (published as "near Calder"), July 1920 to current year.

REVISED RECORDS.--WSP 1182: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,171.76 ft above NGVD of 1929. Apr. 14, 1911 to Sept. 30, 1912, nonrecording gage at site 2.5 mi downstream at different datum. Nonrecording gage at present site July 13 to Dec. 21, 1920, water-stage recorder at present site thereafter. Datum July 13, 1920, to Sept. 30, 1966, 75 ft lower than present datum, and datum Oct. 1, 1966, to Aug. 14, 1972, 15 ft lower than present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53,000 ft³/s Dec. 23, 1933, computed on basis of slope between gages downstream; maximum gage height, 18.1 ft, Apr. 18, 1938, from floodmark, present datum; minimum discharge, 87 ft³/s Nov. 29, 1979; minimum gage height, 3.43 ft, Dec. 5, 1928, present datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,500 ft³/s and maximum (\*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb. 1	0515	*18,100	*12.00	Mar. 23	0415	10,700	10.16
				May 30	0500	8,640	9.55

Minimum daily, 250 ft³/s Nov. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	473	e250	359	518	15100	1000	6210	4440	7170	1280	518	380
2	451	e260	367	508	7760	939	5860	4510	6340	1220	512	376
3	443	e320	392	716	5140	916	5110	4770	5700	1160	563	374
4	447	e340	386	778	3840	872	4480	4930	5210	1110	603	371
5	443	e340	404	952	3090	859	4020	4870	4860	1070	540	367
6	441	e360	407	876	2570	868	3640	4590	4650	1040	526	362
7	429	413	368	662	2210	836	3310	4290	4520	998	507	361
8	420	510	344	e550	2020	795	3140	3990	4360	1040	498	389
9	415	614	313	e460	1830	834	3410	3780	4230	988	490	512
10	411	559	301	e420	1660	980	3700	3640	4100	914	475	438
11	407	501	383	e400	1500	1230	4450	3640	3850	875	465	406
12	402	480	387	e600	1370	2210	4930	3760	3510	838	462	511
13	402	594	441	e750	1300	3090	5340	4050	3330	808	457	480
14	402	615	674	e750	1300	4220	5700	4390	3100	791	451	408
15	402	540	1290	688	1220	4670	5520	5050	2870	767	444	394
16	402	452	1120	613	1230	4690	5070	4960	2700	744	443	390
17	400	436	1030	529	1280	4450	4820	4550	2570	716	439	453
18	397	433	694	452	1210	3880	4670	4230	2480	696	434	474
19	396	455	532	453	1170	3500	4280	3860	2450	685	430	439
20	392	534	e440	e500	1200	3350	4140	3620	2600	664	429	416
21	392	498	e420	531	1320	3130	4360	3500	2320	647	424	404
22	390	464	e400	527	1480	5120	4960	3500	2140	635	419	395
23	384	522	e380	712	1330	9570	5700	3920	1960	618	431	390
24	378	595	e380	732	e1000	6900	5840	5080	1820	604	452	384
25	358	408	e380	821	e950	5470	6130	7550	1750	594	424	380
26	e340	343	390	2750	e1000	4950	5850	8220	1630	584	414	378
27	e340	e320	437	4840	e1000	4480	5250	7730	1550	582	406	378
28	e340	e300	569	3180	e1000	3920	4780	7680	1480	567	399	376
29	e340	e300	613	2330	---	3550	4610	8330	1410	548	394	371
30	e320	e320	570	2360	---	3350	4410	8290	1340	534	390	366
31	e280	---	523	6790	---	4080	---	8180	---	522	385	---
TOTAL	12237	13076	15694	37748	67080	98709	143690	157900	98000	24839	14224	12123
MEAN	395	436	506	1218	2396	3184	4790	5094	3267	801	459	404
MAX	473	615	1290	6790	15100	9570	6210	8330	7170	1280	603	512
MIN	280	250	301	400	950	795	3140	3500	1340	522	385	361
AC-FT	24270	25940	31130	74870	133100	195800	285000	313200	194400	49270	28210	24050
CFSM	0.38	0.42	0.49	1.18	2.33	3.09	4.65	4.95	3.17	0.78	0.45	0.39
IN.	0.44	0.47	0.57	1.36	2.42	3.57	5.19	5.70	3.54	0.90	0.51	0.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2003, BY WATER YEAR (WY)

MEAN	552	995	1340	1180	1541	2086	5292	7997	4613	1374	608	473
MAX	1621	6025	8887	5442	6933	6414	10530	14990	13040	3251	953	839
(WY)	1928	1928	1934	1934	1996	1934	1925	1997	1974	1950	1950	1968
MIN	273	258	288	204	239	539	2073	3285	1154	554	356	303
(WY)	1988	1930	1953	1929	1929	1964	1975	1941	1926	1926	1940	2001

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1911 - 2003
ANNUAL TOTAL	1005483	695320	
ANNUAL MEAN	2755	1905	
HIGHEST ANNUAL MEAN			3955
LOWEST ANNUAL MEAN			1059
HIGHEST DAILY MEAN	19200	Apr 14	40000
LOWEST DAILY MEAN	250	Nov 1	100
ANNUAL SEVEN-DAY MINIMUM	301	Oct 28	154
ANNUAL RUNOFF (AC-FT)	1994000	1379000	1694000
ANNUAL RUNOFF (CFSM)	2.67	1.85	2.27
ANNUAL RUNOFF (INCHES)	36.31	25.11	30.85
10 PERCENT EXCEEDS	7950	4940	6420
50 PERCENT EXCEEDS	865	716	998
90 PERCENT EXCEEDS	385	379	373

e Estimated

SPOKANE RIVER BASIN

12414900 ST. MARIES RIVER NEAR SANTA, ID

LOCATION.--Lat 47°10'35", long 116°29'30", in NW¼SE¼NW¼ sec.8, T.44 N., R.1 W., Benewah County, Santa quad., Hydrologic Unit 17010304, on right bank, 450 ft upstream from bridge on State Highway 3, 0.3 mi upstream from Santa Creek, 2.7 mi northwest of Santa, and at mile 24.6

DRAINAGE AREA.--275 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR 1974: 1968-70 (M). WDR 1982: 1981.

GAGE.--Water-stage recorder. Datum of gage is 2,574.56 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,300 ft<sup>3</sup>/s Feb. 9, 1996, on basis of indirect discharge measurement, gage height, 13.75 ft; minimum, 15 ft<sup>3</sup>/s Nov. 11, 1978, gage height, 3.32 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jan. 26	2230	1,800	7.14	Mar. 16	1045	1,740	7.09
Feb. 1	0545	*5,450	*9.57	Mar. 23	0400	2,730	7.93

Minimum daily, 28 ft<sup>3</sup>/s Oct. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	e36	e55	176	4610	e230	849	489	501	116	53	39
2	54	e40	e60	164	1990	e220	829	449	426	114	53	38
3	54	e44	e60	356	1130	225	765	438	385	109	64	37
4	58	e48	e60	302	816	216	692	441	355	106	79	37
5	60	e55	62	400	625	215	628	473	329	104	68	37
6	60	e70	62	288	501	288	573	451	307	103	65	37
7	56	e80	60	e180	e400	253	521	446	290	101	61	37
8	54	114	59	e140	e360	231	489	414	279	106	57	54
9	52	169	50	e130	337	310	517	392	266	109	55	113
10	52	146	60	e90	306	734	528	374	256	97	53	75
11	52	118	74	e120	e260	753	572	363	255	92	50	59
12	51	95	75	e140	e240	1090	617	377	239	87	49	78
13	51	116	121	e180	e240	1180	671	411	234	85	49	63
14	51	106	267	199	245	1310	657	374	232	84	47	53
15	51	120	373	201	234	1380	613	367	209	82	46	51
16	51	85	300	e160	288	1630	563	359	197	80	46	50
17	51	77	266	e120	384	1380	562	352	186	77	46	71
18	51	73	165	e120	362	1060	636	362	178	75	46	82
19	51	82	e110	e120	341	865	546	385	173	74	44	62
20	51	99	e100	e110	374	776	501	353	197	71	44	55
21	51	83	e75	e120	532	732	492	331	185	70	43	52
22	51	76	e85	127	818	1520	499	321	173	68	42	50
23	50	85	e75	411	628	2350	491	310	163	66	46	50
24	49	133	e65	339	e360	1510	479	308	155	64	48	48
25	e44	e80	e60	373	e320	1180	510	394	153	64	44	47
26	e44	e60	e80	1080	e300	1490	487	434	144	63	41	46
27	e42	e55	107	1210	e260	1370	489	411	136	62	41	45
28	e46	e65	151	698	e240	1070	448	388	132	61	40	45
29	e44	e60	165	507	---	894	437	380	127	58	40	44
30	e30	e55	147	1180	---	792	432	396	122	56	40	43
31	e28	---	170	2470	---	808	---	710	---	53	39	---
TOTAL	1546	2525	3619	12211	17501	28062	17093	12453	6984	2557	1539	1598
MEAN	49.9	84.2	117	394	625	905	570	402	233	82.5	49.6	53.3
MAX	60	169	373	2470	4610	2350	849	710	501	116	79	113
MIN	28	36	50	90	234	215	432	308	122	53	39	37
AC-FT	3070	5010	7180	24220	34710	55660	33900	24700	13850	5070	3050	3170
CFSM	0.18	0.31	0.42	1.43	2.27	3.29	2.07	1.46	0.85	0.30	0.18	0.19
IN.	0.21	0.34	0.49	1.65	2.37	3.80	2.31	1.68	0.94	0.35	0.21	0.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2003, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1966	72.3	137	218	344	525
1967	132	422	732	1637	1936
1968	1969	1996	1996	1974	1996
1969	36.3	45.7	54.8	47.6	73.3
1970	1988	1988	1979	1979	2001
1971					1977
1972					1992
1973					1992
1974					1992
1975					1994
1976					1994
1977					1994
1978					1994
1979					1994
1980					1994
1981					1994
1982					1994
1983					1994
1984					1994
1985					1994
1986					1994
1987					1994
1988					1994
1989					1994
1990					1994
1991					1994
1992					1994
1993					1994
1994					1994
1995					1994
1996					1994
1997					1994
1998					1994
1999					1994
2000					1994
2001					1994
2002					1994
2003					1994

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1966 - 2003
ANNUAL TOTAL	158180	107688	
ANNUAL MEAN	433	295	353
HIGHEST ANNUAL MEAN			711
LOWEST ANNUAL MEAN			134
HIGHEST DAILY MEAN	5570	4610	10800
LOWEST DAILY MEAN	28	28	25
ANNUAL SEVEN-DAY MINIMUM	38	37	26
ANNUAL RUNOFF (AC-FT)	313800	213600	255700
ANNUAL RUNOFF (CFSM)	1.58	1.07	1.28
ANNUAL RUNOFF (INCHES)	21.40	14.57	17.44
10 PERCENT EXCEEDS	1230	694	923
50 PERCENT EXCEEDS	152	130	151
90 PERCENT EXCEEDS	52	46	53

e Estimated

## SPOKANE RIVER BASIN

12415140 ST JOE RIVER NEAR CHATCOLET, ID

LOCATION.--Lat 47°21'41", long 116°41'26", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.8, T.44 N., R.1 W., Benewah County, Benewah Lake quad., Hydrologic Unit 17010304, on right bank, 450 ft upstream from bridge on State Highway 3, 0.3 mi upstream from Santa Creek, 2.7 mi northwest of Santa, and at mile 24.6

DRAINAGE AREA.--275 mi<sup>2</sup>.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2002 to September 2003.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L (00666)
NOV													
06...	1220	397	61	6.8	14.5	3.9	26	7.4	1.8	<.015	E.09	<.022	.004
DEC													
09...	1326	406	62	7.2	3.5	2.1	24	7.0	1.7	<.015	E.08	<.022	.005
FEB													
06...	1220	4120	40	6.4	5.5	2.8	15	4.1	1.1	<.015	.2	.036	.008
MAY													
30...	1130	8060	34	7.3	21.0	10.5	14	4.03	.888	<.015	.1	<.022	.004
JUN													
26...	1120	1380	42	7.0	25.5	14.1	18	5.26	1.18	<.015	E.06	<.022	E.004
AUG													
20...	1215	411	65	7.3	23.5	22.7	26	7.80	1.69	<.015	.1	<.022	E.002

Date	Phosphorus, water, unfltrd mg/L (00665)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Iron, water, unfltrd recover-able, ug/L (01045)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover-able, ug/L (01051)	Manganese, water, unfltrd recover-able, ug/L (01055)	Manganese, water, fltrd, ug/L (01056)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover-able, ug/L (01092)
NOV											
06...	.011	<.037	<.035	212	110	--	.10	15.1	13.0	1.2	E1.7
DEC											
09...	.018	.039	<.035	273	130	.08	.08	15.6	14.5	2.7	E1.9
FEB											
06...	.026	E.021	<.035	344	59	.10	.20	9.27	5.38	3.8	2.1
MAY											
30...	.018	<.037	<.035	306	21.1	E.06	.16	9.74	3.98	E.7	E1.5
JUN											
26...	.009	<.037	<.035	108	41.5	.10	.07	8.49	4.49	1.2	<2
AUG											
20...	.009	<.037	<.035	77	25.7	<.08	E.06	5.51	.32	1.6	E1.5

< Less than  
E Estimated value

SPOKANE RIVER BASIN

12415500 COEUR D'ALENE LAKE AT COEUR D'ALENE, ID

LOCATION.--Lat 47°39'55", long 116°46'13", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.24, T.50 N., R.4 W., Kootenai County, Coeur D'Alene quad., Hydrologic Unit 17010303, 500 ft southwest of south end of Eleventh Street, Coeur d'Alene, and 113.1 mi upstream from mouth of Spokane River.

DRAINAGE AREA.--3,700 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--April 1903 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,100.00 ft, referred to originally accepted elevation of 2,157.40 ft of U.S. Geological Survey bench mark in southeast corner of Idaho First National Bank Building (see WSP 882). Gage heights are reduced to that datum. Datum of gage based on NGVD of 1929, supplementary adjustment of 1947, is 2,097.00 ft. Apr. 26, 1903, to Feb. 14, 1905, non-recording gage at mouth of St. Joe River at datum about 18.7 ft higher than gage datum. Feb. 15, 1905, to Mar. 23, 1921, non-recording gage, and Mar. 24, 1921, to Dec. 22, 1930, water-stage recorder at Johnson Wharf 800 ft southeast of railroad station and 1 mi northwest of present site at datum 19.75 ft higher than gage datum. Dec. 23, 1930, to Feb. 9, 1931, non-recording gage at present site and datum.

REMARKS.--Station equipment includes telemetry. Avista Utilities stores water in Coeur d'Alene Lake by regulation at Post Falls Dam for power generation at Post Falls and other plants on Spokane River. Storage is within natural range of lake stage. Contents given herein are those above elevation 2,120.0 ft. Capacity of lake between elevations 2,120 ft and 2,140 ft, 889,000 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 834,900 acre-ft Dec. 25, 1933, elevation, 2,139.05 ft; minimum, 2,700 acre-ft below zero of contents table Oct. 10-12, 1904, Sept. 24, 25, 1905, Oct. 14 to Nov. 3, 1906, Feb. 9, 10, 1977, elevation, 2,119.9 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum contents known prior to 1903, 753,300 acre-ft May 31, 1894, elevation, 2,137.6 ft, from high-water marks.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 250,100 acre-ft Feb. 4, elevation, 2,128.24 ft; minimum, 54,200 acre-ft Jan. 22, elevation, 2,122.02 ft.

Capacity table (gage height, in feet, and contents, in acre-feet)

22.0	53,700	28.0	238,500
24.0	107,900	30.0	339,700
26.0	162,900		

GAGE HEIGHT, in FEET, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.73	24.21	23.59	22.97	26.80	23.72	27.34	25.85	27.67	27.80	27.92	27.84
2	26.69	24.13	23.54	22.98	27.89	23.62	27.38	25.77	27.78	27.81	27.92	27.84
3	26.64	24.06	23.50	22.99	28.23	23.52	27.35	25.74	27.85	27.84	27.97	27.84
4	26.59	24.01	23.46	23.03	28.19	23.43	27.26	25.73	27.88	27.87	27.98	27.83
5	26.55	23.96	23.43	23.08	27.97	23.34	27.11	25.71	27.90	27.88	27.99	27.82
6	26.49	23.92	23.39	23.10	27.69	23.25	26.94	25.69	27.92	27.90	27.99	27.81
7	26.41	23.89	23.35	23.07	27.35	23.19	26.72	25.65	27.95	27.94	27.99	27.82
8	26.34	23.92	23.31	22.96	27.04	23.08	26.52	25.59	27.96	27.96	27.98	27.89
9	26.26	23.94	23.26	22.85	26.68	23.04	26.34	25.53	27.98	27.95	27.98	27.86
10	26.17	23.95	23.22	22.71	26.35	23.04	26.19	25.45	28.00	27.94	27.98	27.84
11	26.07	23.94	23.15	22.57	26.02	23.05	26.20	25.36	27.98	27.97	27.96	27.84
12	25.98	23.94	23.12	22.50	25.68	23.14	26.21	25.31	27.94	27.98	27.95	27.78
13	25.90	23.93	23.10	22.44	25.40	23.36	26.28	25.27	27.90	27.95	27.93	27.77
14	25.82	23.96	23.14	22.44	25.16	23.76	26.30	25.27	27.88	27.92	27.92	27.75
15	25.73	23.94	23.22	22.40	24.91	24.30	26.34	25.32	27.88	27.91	27.96	27.67
16	25.64	23.95	23.35	22.36	24.77	24.85	26.34	25.34	27.90	27.92	27.92	27.59
17	25.56	23.90	23.42	22.30	24.63	25.30	26.35	25.35	27.93	27.91	27.91	27.48
18	25.48	23.89	23.42	22.24	24.50	25.56	26.31	25.35	27.94	27.91	27.91	27.36
19	25.40	23.90	23.38	22.18	24.39	25.68	26.23	25.29	27.93	27.92	27.91	27.24
20	25.31	23.88	23.31	22.10	24.30	25.75	26.13	25.24	27.89	27.93	27.90	27.19
21	25.23	23.88	23.25	22.06	24.26	25.78	26.06	25.19	27.89	27.91	27.89	27.13
22	25.12	23.85	23.17	22.08	24.27	26.11	26.01	25.22	27.84	27.92	27.89	27.11
23	25.04	23.84	23.11	22.06	24.26	26.90	26.02	25.25	27.83	27.93	27.90	27.05
24	24.96	23.86	23.07	22.09	24.19	27.54	26.08	25.60	27.84	27.92	27.88	27.02
25	24.87	23.82	23.02	22.16	24.08	27.85	26.13	25.83	27.85	27.91	27.88	27.00
26	24.78	23.78	22.98	22.59	23.98	28.04	26.17	26.20	27.87	27.90	27.89	26.96
27	24.68	23.75	23.00	23.42	23.90	28.08	26.16	26.34	27.86	27.91	27.88	26.91
28	24.57	23.69	23.00	24.01	23.79	27.99	26.08	26.63	27.85	27.90	27.84	26.87
29	24.47	23.66	23.01	24.36	---	27.82	26.01	26.91	27.83	27.91	27.84	26.82
30	24.41	23.63	22.99	24.69	---	27.62	25.92	27.30	27.84	27.92	27.85	26.79
31	24.30	---	23.00	25.37	---	27.41	---	27.52	---	27.93	27.85	---
MEAN	25.62	23.90	23.23	22.84	25.60	25.13	26.42	25.74	27.89	27.91	27.92	27.46
MAX	26.73	24.21	23.59	25.37	28.23	28.08	27.38	27.52	28.00	27.98	27.99	27.89
MIN	24.30	23.63	22.98	22.06	23.79	23.04	25.92	25.19	27.67	27.80	27.84	26.79
†	116100	97800	80700	145300	102200	211500	16070	216300	230900	235100	231400	187600
‡	-72300	-18300	-17100	64600	-43100	109300	-50800	55600	14600	4200	-3700	-43800
CAL YR 2002	MEAN 26.32	MAX 32.58	MIN 21.96	† 15900								
WTR YR 2003	MEAN 25.80	MAX 28.23	MIN 22.06	† -800								

† Contents, in acre-ft, at end of month.  
‡ Change in contents, in acre-feet.





SPOKANE RIVER BASIN

12417598 SPOKANE RIVER AT LAKE OUTLET AT COEUR D'ALENE, ID

LOCATION.--Lat 47°40'34", long 116°48'05", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.8, T.44 N., R.1 W., Kootenai County, Coeur D'Alene quad., Hydrologic Unit 17010305, on right bank, 450 ft upstream from bridge on State Highway 3, 0.3 mi upstream from Santa Creek, 2.7 mi northwest of Santa, and at mile 24.6

DRAINAGE AREA.--275 mi<sup>2</sup>.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2002 to September 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L (00666)
NOV													
07...	0920	1470	45	6.6	6.0	7.4	17	4.5	1.4	<.015	.1	E.011	<.004
DEC													
10...	1145	1940	48	7.0	4.5	6.1	18	4.8	1.5	<.015	.1	.057	.005
FEB													
10...	1330	12900	52	--	4.0	4.4	20	5.2	1.6	<.015	E.06	.050	E.003
MAY													
14...	0710	8000	46	7.9	11.5	10.3	18	4.7	1.5	<.015	.1	<.022	E.003
JUN													
02...	0755	7700	46	7.4	14.5	15.3	19	5.17	1.52	<.015	.1	<.022	<.004
JUL													
01...	0725	2230	46	7.0	14.5	20.4	18	4.97	1.45	<.015	E.08	<.022	<.004
AUG													
19...	0750	281	56	7.2	19.0	23.0	21	5.66	1.65	.102	.3	.122	.010

Date	Phosphorus, water, unfltrd mg/L (00665)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Iron, water, unfltrd recover-able, ug/L (01045)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover-able, ug/L (01051)	Manganese, water, unfltrd recover-able, ug/L (01055)	Manganese, water, fltrd, ug/L (01056)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover-able, ug/L (01092)
NOV											
07...	.004	.166	.202	24.9	E9	.28	.85	3.99	2.82	51.4	54.3
DEC											
10...	.013	.208	.314	71.9	<10	.16	3.40	8.74	2.09	61.2	68.5
FEB											
10...	.007	.230	.186	18.7	E8	.09	.73	4.72	.48	68.9	70.0
MAY											
14...	.014	.214	.294	82.2	21	.74	2.62	5.41	1.77	54.4	61.7
JUN											
02...	.006	.216	.270	60.8	18.1	.63	2.40	6.84	1.89	46.5	54.6
JUL											
01...	E.003	.151	.212	29	E5.3	.22	.99	4.62	1.86	34.3	39.1
AUG											
19...	.015	.132	.162	8	E5.0	.12	.84	3.50	.83	34.4	36.8

< Less than  
E Estimated value

SPOKANE RIVER BASIN

12419000 SPOKANE RIVER NEAR POST FALLS, ID

LOCATION.--Lat 47°42'11", long 116°58'37", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.4, T.50 N., R.5 W., Kootenai County, Post Falls quad., Hydrologic Unit 17010305, on right bank, 1 mi downstream from powerplant of Avista Utilities, 1.5 mi southwest of Post Falls, and at mile 100.7.

DRAINAGE AREA.--3,840 mi<sup>2</sup>, approximately, of which about 122 mi<sup>2</sup> in the vicinity of Hayden Lake is noncontributing to this station.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1912 to current year (prior to January 1913, monthly discharge only, published in WSP 870 and 1736). Prior to October 1949, published as "at Post Falls."

GAGE.--Water-stage recorder. Datum of gage is 2,050 ft, referred to originally accepted elevation of 2,157.40 ft for the U.S. Geological Survey bench mark in southeast corner of Idaho First National Bank Building (see WSP 882). Gage datum is 2,047.00 ft above NGVD of 1929. Jan. 1, 1913, to Nov. 21, 1920, nonrecording gage, and Nov. 22, 1920, to Sept. 15, 1934, recording gage 0.6 mi upstream. From Sept. 16, 1934, to Nov. 15, 1949, recording gage 0.8 mi upstream. From Nov. 16, 1949, at present site. Datum of all gages prior to Sept. 30, 1964, 50 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by dam at Post Falls and affected by storage in Coeur d'Alene Lake (sta 12415500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,100 ft<sup>3</sup>/s, when recorder was not operating, Dec. 25, 1933, (determined from unpublished records collected by Washington Water Power Co. for station at Liberty Bridge); minimum, 65 ft<sup>3</sup>/s July 25, 30, 1973; minimum gage height, 4.68 ft, July 20, 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 17,800 ft<sup>3</sup>/s Feb. 4; minimum daily, 274 ft<sup>3</sup>/s Aug. 25, 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1720	1950	1510	3000	10700	5450	15600	10300	8130	2080	358	280
2	1720	1790	1510	3070	14600	5430	15500	10100	7410	1540	357	281
3	1760	1780	1510	3580	17400	5180	15600	9990	6980	924	329	287
4	1790	1620	1510	3570	17800	5020	15400	9930	6950	827	376	364
5	1790	1510	1510	3590	17500	4930	15100	9680	6840	856	448	362
6	1790	1490	1510	3590	16500	4620	14700	9590	6240	852	472	361
7	2080	1470	1510	4200	15700	4470	13900	9220	5830	852	459	363
8	2260	1470	1510	4450	14800	4460	13200	8930	5810	1040	456	543
9	2260	1460	1770	4450	14000	4440	12500	8700	5540	1110	456	775
10	2260	1460	1960	4230	13100	4270	11500	8580	5760	1100	456	775
11	2250	1460	1970	4020	12200	4520	10900	8480	5970	1110	470	775
12	2250	1460	2090	3870	11300	4520	11800	8140	5960	1220	465	775
13	2240	1460	2160	3350	10400	5050	11900	8000	5690	1340	383	926
14	2240	1490	2160	3210	9330	5200	12200	7970	5270	1390	341	1350
15	2240	1520	2160	3430	8920	6510	12300	7970	3900	1390	343	1510
16	2240	1520	2170	3350	8560	7610	12300	8030	3190	917	342	2260
17	2240	1510	2470	3370	8070	8880	12100	8040	3180	859	341	2680
18	2230	1520	2730	3390	7660	10200	12100	8040	3520	727	321	2990
19	2230	1520	2710	3190	7450	10600	12000	7990	3790	671	308	2780
20	2230	1510	2730	3110	7120	10800	11800	7720	3800	683	308	1770
21	2230	1510	2730	3070	6960	10900	11000	6780	3480	693	301	1530
22	2220	1510	2680	3000	6930	11200	10900	5610	3270	639	279	1380
23	2270	1510	2340	2970	6910	12700	11000	5610	2730	603	275	1100
24	2280	1510	2120	3090	6870	14900	11000	5550	2440	595	276	1100
25	2290	1520	2120	3160	6760	16600	11200	5540	2440	574	274	1100
26	2290	1520	2120	3240	6260	17200	11300	5610	2310	563	276	1100
27	2290	1520	2120	4300	6100	17500	11300	5630	2230	563	276	1100
28	2280	1520	2110	5030	5820	17500	11200	5650	2230	451	275	1090
29	2230	1510	2470	6280	---	17200	11100	5670	2220	333	274	1090
30	2200	1520	2730	7120	---	16600	10800	5870	2220	303	280	1090
31	2190	---	2830	8040	---	15900	---	7590	---	307	280	---
TOTAL	66590	46120	65530	121320	295720	290360	373200	240510	135330	27112	10855	33887
MEAN	2148	1537	2114	3914	10560	9366	12440	7758	4511	875	350	1130
MAX	2290	1950	2830	8040	17800	17500	15600	10300	8130	2080	472	2990
MIN	1720	1460	1510	2970	5820	4270	10800	5540	2220	303	274	280
AC-FT	132100	91480	130000	240600	586600	575900	740200	477100	268400	53780	21530	67210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2003, BY WATER YEAR (WY)

MEAN	1749	2863	4864	5191	6288	8198	14390	17430	9643	2094	931	1180
MAX	5460	13130	23660	24930	23280	25440	26050	34930	26710	10720	2133	1849
(WY)	1928	1928	1934	1934	1996	1972	1943	1997	1974	1916	1917	1985
MIN	782	627	784	903	1025	1751	3558	5141	1584	851	185	188
(WY)	1964	1936	1936	2001	1929	1929	1977	1992	1926	1994	1958	1949

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1913 - 2003
ANNUAL TOTAL	2756514	1706534	
ANNUAL MEAN	7552	4675	6206
HIGHEST ANNUAL MEAN			11600
LOWEST ANNUAL MEAN			2143
HIGHEST DAILY MEAN	30500	Apr 17	17800
LOWEST DAILY MEAN	569	Aug 29	274
ANNUAL SEVEN-DAY MINIMUM	642	Aug 24	275
ANNUAL RUNOFF (AC-FT)	5468000	3385000	4496000
10 PERCENT EXCEEDS	20800	11800	17100
50 PERCENT EXCEEDS	3540	2680	2990
90 PERCENT EXCEEDS	1100	456	900

SPOKANE RIVER BASIN  
12419000 SPOKANE RIVER NEAR POST FALLS, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973-1981, July 1989 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May to September 1998, May to September 1999, May to September 2000, November 2001 to October 2002, June to September 2003 (discontinued).

SPECIFIC CONDUCTANCE: February 1999 to September 2001 (discontinued).

INSTRUMENTATION.--Water-quality data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 27.2 °C July 30, 2003; minimum, 1.4 °C Feb. 17, 18, 2001.

SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 57 microsiemens/cm Aug. 30 to Sept. 4, 2000; minimum recorded daily mean, 42 microsiemens/cm May 6-8, June 14-15, 2000.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 27.2 °C July 30; minimum, 16.8 °C Sept. 21-22.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Fecal coliform, M-FC col/100 mL (31625)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
NOV 07...	1230	1470	47	7.3	8.5	7.4	--	--	--	--	17	4.5	1.4
FEB 10...	0920	13300	48	6.6	-2.0	3.8	--	--	--	--	20	5.2	1.6
MAY 14...	0955	7960	47	7.2	15.0	11.0	--	--	--	--	18	4.8	1.5
JUN 02...	1200	6960	46	7.3	15.9	19.0	--	--	--	--	19	5.18	1.52
JUL 01...	1025	2010	48	7.0	22.0	21.3	25	7.0	85	S13	19	5.23	1.52
AUG 19...	1130	311	60	7.4	26.5	24.0	3	7.4	95	S15	22	5.97	1.74
SEP 03...	1230	288	68	7.3	28.0	22.8	<1	7.8	98	45	23	6.28	1.85

Date	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Sulfate, water, fltrd, mg/L (00945)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Ammonia, water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd, mg/L (00665)	Cadmium, water, fltrd, ug/L (01025)
NOV 07...	--	--	--	--	--	--	E.010	.1	.082	.004	--	.008	.176
FEB 10...	--	--	--	--	--	--	<.015	E.06	.054	.004	--	.007	.232
MAY 14...	--	--	--	--	--	--	<.015	.1	E.019	E.003	--	.009	.213
JUN 02...	--	--	--	--	--	--	<.015	.1	E.015	<.004	--	.006	.183
JUL 01...	--	--	--	--	--	--	<.015	.1	.044	E.002	--	.007	.146
AUG 19...	--	--	--	--	--	--	<.015	.1	.230	.004	--	.010	.054
SEP 03...	2.99	.90	2.28	4.19	<.17	7.6	<.015	.1	.304	--	<.007	.011	--

SPOKANE RIVER BASIN  
12419000 SPOKANE RIVER NEAR POST FALLS, ID--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Cadmium water, unfltrd ug/L (01027)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recover -able, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover -able, ug/L (01051)	Mangan- ese, water, fltrd, ug/L (01056)	Mangan- ese, water, unfltrd recover -able, ug/L (01055)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover -able, ug/L (01092)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment load, tons/d (80155)
NOV 07...	.194	E7	E14.5	.20	.64	1.41	2.63	48.4	51.7	--	--
FEB 10...	.214	E8	33.6	1.34	1.03	.61	5.20	70.9	71.5	--	--
MAY 14...	.296	20	74.3	.66	2.35	1.65	4.75	55.8	61.9	--	--
JUN 02...	.255	19.3	64.8	.65	2.40	2.01	6.63	43.3	53.0	--	--
JUL 01...	.211	E7.5	43	.17	1.64	1.24	6.72	34.3	40.3	1	5.4
AUG 19...	.094	E5.1	15	.16	1.30	1.86	5.37	23.3	26.1	1	.84
SEP 03...	--	--	--	--	--	--	--	--	--	1	.78

< Less than  
E Estimated value  
M Presence verified, not quantified  
S Most probable value

Temperature, water, degrees Celsius  
YEAR JUNE 2003 TO MAY 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	21.9	21.2	21.5	27.0	24.9	25.8	23.6	21.4	22.4
2	---	---	---	22.0	21.0	21.5	26.5	24.9	25.6	23.6	21.4	22.4
3	---	---	---	22.2	20.9	21.5	25.4	24.8	25.1	23.6	21.7	22.6
4	---	---	---	22.4	20.7	21.4	26.0	24.4	25.1	23.6	21.9	22.7
5	---	---	---	22.2	21.0	21.5	25.4	24.4	24.9	23.4	21.9	22.5
6	---	---	---	22.5	21.0	21.6	26.0	24.2	24.9	23.4	21.7	22.5
7	---	---	---	22.5	21.2	21.8	25.6	23.9	24.6	23.0	22.0	22.5
8	---	---	---	22.4	21.5	21.9	25.6	23.7	24.6	22.2	21.4	21.7
9	---	---	---	22.5	21.2	21.7	26.0	24.1	24.9	21.7	21.0	21.4
10	---	---	---	22.9	21.4	22.1	26.0	23.9	24.8	21.2	20.7	21.0
11	---	---	---	23.4	22.2	22.7	25.8	23.9	24.7	20.7	20.2	20.5
12	---	---	---	23.6	22.4	22.9	25.4	23.7	24.5	20.2	19.4	19.9
13	---	---	---	23.4	22.5	22.8	25.6	23.6	24.4	19.9	18.8	19.2
14	---	---	---	23.2	22.0	22.6	25.6	23.4	24.4	18.9	18.3	18.6
15	---	---	---	23.7	22.4	22.9	25.1	23.7	24.4	18.6	18.1	18.4
16	---	---	---	24.1	22.7	23.2	24.9	23.7	24.2	18.3	18.0	18.1
17	---	---	---	24.1	22.7	23.2	25.1	23.0	24.0	18.0	17.6	17.8
18	---	---	---	24.6	22.7	23.5	25.4	23.2	24.2	17.6	17.0	17.2
19	21.4	20.7	21.0	25.1	23.2	24.0	25.4	23.2	24.2	17.3	17.0	17.1
20	21.4	20.2	21.0	25.3	23.7	24.3	24.9	23.0	23.9	17.8	17.0	17.3
21	20.2	18.8	19.4	25.8	23.9	24.7	24.9	22.9	23.8	17.8	16.8	17.3
22	18.8	18.1	18.4	26.1	24.2	25.0	23.9	23.2	23.5	17.8	16.8	17.2
23	18.3	17.8	18.0	26.3	24.6	25.3	24.4	22.7	23.4	17.8	17.0	17.3
24	18.4	17.8	18.1	26.3	24.6	25.3	24.2	22.2	23.2	17.8	17.0	17.4
25	19.2	18.1	18.7	26.5	24.6	25.3	24.4	22.0	23.2	18.1	17.3	17.7
26	19.7	19.1	19.4	26.7	24.8	25.5	24.6	22.5	23.4	18.3	17.5	17.8
27	20.4	19.6	19.9	26.8	24.8	25.6	23.7	22.2	23.0	18.3	17.5	17.9
28	21.0	20.1	20.5	27.0	24.9	25.8	24.1	21.7	22.8	18.3	17.5	18.0
29	21.5	20.5	21.1	26.8	24.6	25.7	23.6	21.9	22.7	18.1	17.5	17.9
30	21.7	21.0	21.4	27.2	24.9	26.0	23.7	21.5	22.6	18.1	17.3	17.7
31	---	---	---	27.0	24.6	25.8	23.6	21.4	22.4	---	---	---
MONTH	---	---	---	27.2	20.7	23.5	27.0	21.4	24.1	23.6	16.8	19.4

SPOKANE RIVER BASIN

12419495 SPOKANE RIVER AT STATELINE BRIDGE NEAR GREENACRES, WA

LOCATION.--Lat 47°41'55", long 117°02'40", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.8, T.44 N., R.1 W., Spokane County, Washington, Liberty Lake quad., Hydrologic Unit 17010304, on right bank, 450 ft upstream from bridge on State Highway 3, 0.3 mi upstream from Santa Creek, 2.7 mi northwest of Santa, and at mile 24.6

DRAINAGE AREA.--275 mi<sup>2</sup>.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May to September 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unfiltered, uS/cm 25 degC (00095)	pH, water, unfiltered, field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfiltered, mg/L as CaCO3 (00900)	Calcium water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Ammonia water, filtered, mg/L as N (00608)	Ammonia + org-N, water, unfiltered, mg/L as N (00625)	Nitrite + nitrate, water, filtered, mg/L as N (00631)	Phosphorus, water, filtered, mg/L (00666)
MAY													
14...	1245	7870	47	7.2	22.0	11.5	18	4.7	1.5	<.015	.1	E.019	E.004
JUN													
02...	1400	6950	46	7.2	23.0	16.0	19	5.21	1.53	<.015	.1	E.014	<.004
JUL													
01...	1310	2010	50	7.4	26.0	22.5	19	5.08	1.49	<.015	E.10	.029	.004
AUG													
19...	1445	281	59	7.6	36.5	25.4	21	5.78	1.68	<.015	.2	.188	E.004

Date	Phosphorus, water, unfiltered, mg/L (00665)	Cadmium water, filtered, ug/L (01025)	Cadmium water, unfiltered, ug/L (01027)	Iron, water, unfiltered, recoverable, ug/L (01045)	Iron, water, filtered, ug/L (01046)	Lead, water, filtered, ug/L (01049)	Lead, water, unfiltered, recoverable, ug/L (01051)	Manganese, water, unfiltered, recoverable, ug/L (01055)	Manganese, water, filtered, ug/L (01056)	Zinc, water, filtered, ug/L (01090)	Zinc, water, unfiltered, recoverable, ug/L (01092)
MAY											
14...	.017	.210	.306	76.1	20	.65	2.36	4.75	1.68	51.8	61.4
JUN											
02...	.006	.182	.246	104	18.5	.63	2.41	6.72	2.05	45.7	52.2
JUL											
01...	.009	.130	.177	38	E6.8	.18	1.41	5.99	1.69	27.8	34.6
AUG											
19...	.009	.047	.072	10	E4.3	.13	.91	5.56	1.72	20.5	26.2

< Less than  
E Estimated value

SPOKANE RIVER BASIN  
12433000 SPOKANE RIVER AT LONG LAKE, WA

LOCATION.--Lat 47°50'12", long 117°50'25", NW<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> sec.13, T.27 N., R.39 E., Lincoln County, Washington, Long Lake quad., Hydrologic Unit 17010307, on left bank at Long Lake powerhouse, 1.4 mi upstream from Chamokane Creek, 12 mi north of Reardan, and at mile 33.88.

DRAINAGE AREA.--6,020 mi , approximately.

WATER-QUALITY RECORDS

PERIOD OF RECORDS.-- October 1959 to September 1986, October 1998 to April 2000, November 2001 to current year (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd CaCO3 mg/L as (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L (00666)	
NOV	26...	1115	3230	193	8.0	3.1	7.2	87	21	8.4	.029	.1	.895	.026
FEB	05...	0900	13700	138	7.8	3.3	5.6	55	13	5.1	.015	.2	1.00	.042
MAR	31...	1000	16800	76	7.7	13.7	6.3	30	7.7	2.6	<.015	.3	.471	.020
JUN	04...	1300	7200	115	8.4	24.1	15.4	--	--	--	E.012	.2	.335	E.002
JUL	21...	1350	4640	157	8.0	25.5	19.5	70	17.3	6.46	.018	.2	.634	.007
AUG	28...	1450	3200	231	8.1	25.1	19.6	110	24.9	10.5	<.015	.1	.986	.010
SEP	10...	1310	3240	242	8.1	23.1	18.7	110	25.7	10.9	<.015	.2	1.04	.012

Date	Phosphorus, water, unfltrd mg/L (00665)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Iron, water, unfltrd recover-able, ug/L (01045)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover-able, ug/L (01051)	Manganese, water, unfltrd recover-able, ug/L (01055)	Manganese, water, fltrd, ug/L (01056)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover-able, ug/L (01092)	
NOV	26...	.031	E.019	E.025	23.5	<10	<.08	.28	10.4	1.08	5.9	8.5
FEB	05...	.063	.047	.097	262	12	E.05	.77	14.1	6.45	24.1	34.0
MAR	31...	.041	.103	.144	<16	17	.15	1.69	12.4	1.78	37.5	51.5
JUN	04...	.013	.069	.092	42	<8.0	.13	.63	8.25	.95	16.3	27.1
JUL	21...	.010	E.022	E.026	18	E6.0	<.08	.16	6.47	2.77	8.5	9.2
AUG	28...	.013	E.019	E.018	<6	<8	E.04	.13	7.97	.68	4.6	2.8
SEP	10...	.018	<.037	<.035	13	<8	<.08	.19	13.8	.55	3.8	2.3

< Less than  
E Estimated value