



Figure 12. 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 NE¹/₄SE¹/₄SW¹/₄ sec.5, T.50 N., R.4 E., Shoshone County, 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 mi².

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 poor. Station equipment includes satellite telemetry. No regulation or diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,000 ft³/s Jan 15, 1974, gage height, 11.60 ft; minimum, 34 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 8	2045	6,530	6.44	May 3	1400	4,150	5.17
Apr. 14	2015	*12,900	*8.97	May 23	0300	6,790	6.56
				May 29	0330	4,650	5.46

Minimum daily, 60 ft³/s Oct. 4-7.

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	63	433	246	e200	396	869	959	3560	3130	447	155	99
2	61	276	245	e170	361	735	1090	3840	2660	407	150	98
3	61	217	250	e180	326	673	1130	4060	2430	380	149	97
4	60	182	242	e190	306	620	1160	3770	2200	363	146	96
5	60	160	230	e180	285	585	1300	3160	2100	347	151	99
6	60	147	222	e180	279	566	1540	2630	1930	327	151	105
7	60	135	207	e88	283	501	1930	2210	1680	315	148	107
8	65	123	197	4840	295	427	2440	1920	1480	322	142	100
9	83	115	197	4880	259	451	2480	1710	1360	317	137	96
10	83	109	190	2670	238	418	2530	1570	1220	288	132	96
11	103	104	185	1790	231	556	3370	1510	1130	276	130	94
12	114	100	180	1450	e200	1500	3580	1660	1080	263	128	91
13	110	98	200	1300	e180	1510	4840	2250	1070	255	125	89
14	103	157	311	1120	e200	1260	10400	3560	1090	246	122	87
15	91	312	324	973	e170	1080	9050	3630	1060	238	119	87
16	83	271	309	848	e170	959	5000	3100	1020	231	118	87
17	78	323	443	745	e200	849	3430	3010	941	225	116	97
18	75	354	504	653	230	764	2740	3130	924	218	115	106
19	78	306	441	603	230	713	2470	3610	936	211	113	101
20	88	269	374	570	240	691	2420	5420	814	205	111	93
21	96	272	336	513	235	563	2500	5080	737	199	122	89
22	104	308	299	449	996	542	2740	5630	693	194	120	89
23	174	429	e240	412	3030	546	2840	6140	664	189	114	87
24	223	490	e240	411	2330	570	2620	4190	615	187	111	87
25	165	423	e230	660	1700	566	2400	3260	570	182	110	87
26	134	356	e200	932	1340	591	2290	3140	532	178	116	87
27	123	305	e170	765	1160	716	2230	3700	502	173	116	87
28	205	277	e230	615	1010	780	2200	4290	476	169	110	87
29	193	274	e240	e500	---	787	2320	4480	565	166	105	89
30	170	253	e210	e460	---	805	2850	4050	540	163	105	103
31	383	---	e200	428	---	855	---	3560	---	159	103	---
TOTAL	3549	7578	8092	30555	16880	23048	88849	106830	36149	7840	3890	2817
MEAN	114.5	252.6	261.0	985.6	602.9	743.5	2962	3446	1205	252.9	125.5	93.90
MAX	383	490	504	4880	3030	1510	10400	6140	3130	447	155	107
MIN	60	98	170	170	170	418	959	1510	476	159	103	87
AC-FT	7040	15030	16050	60610	33480	45720	176200	211900	71700	15550	7720	5590
CFSM	0.34	0.75	0.78	2.94	1.80	2.22	8.84	10.3	3.60	0.75	0.37	0.28
IN.	0.39	0.84	0.90	3.39	1.87	2.56	9.87	11.86	4.01	0.87	0.43	0.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2002, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
	141.1	449	1969	69.4	1988
	333.1	1273	1996	71.0	1962
	511.8	1777	1996	75.0	1953
	502.6	2601	1974	71.7	1979
	696.9	2485	1996	81.6	2001
	906.3	2725	1972	188	1955
	2100	3711	1956	794	2001
	2127	4447	1997	411	1992
	692.5	2238	1974	184	1992
	225.6	399	1971	104	1977
	124.8	201	1993	68.6	1973
	105.3	170	1968	57.6	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1951 - 2002
ANNUAL TOTAL	109766	336077	
ANNUAL MEAN	300.7	920.8	704.5
HIGHEST ANNUAL MEAN			1267
LOWEST ANNUAL MEAN			223
HIGHEST DAILY MEAN	2990	10400	16000
LOWEST DAILY MEAN	50	60	40
ANNUAL SEVEN-DAY MINIMUM	54	61	44
ANNUAL RUNOFF (AC-FT)	217700	666600	510400
ANNUAL RUNOFF (CFSM)	0.90	2.75	2.10
ANNUAL RUNOFF (INCHES)	12.19	37.32	28.57
10 PERCENT EXCEEDS	675	2780	1970
50 PERCENT EXCEEDS	135	309	280
90 PERCENT EXCEEDS	61	97	92

e Estimated



Niagara Springs near Buhl, Idaho (March 18, 1985)

SPOKANE RIVER BASIN

12411935 PRICHARD CREEK AT MOUTH AT PRICHARD, ID

LOCATION.--Lat 47°39'24", long 115°58'04", in SW¹/₄NE¹/₄NE¹/₄ 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 ft³/s Apr. 14, 2002; minimum daily, 12 ft³/s Sept. 19-30, Oct. 1, 2, 7, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,690 ft³/s Apr. 14; minimum daily, 12 ft³/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)

	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 NW¹/₄SW¹/₄NE¹/₄ sec.30, T.49 N., R.2 E., Shoshone County, 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 mi².

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 ft³/s Jan. 16, 1974, gage height, 81.32 ft, site and datum then in use; minimum, 95 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 9	0500	13,600	67.53	May 3	2045	9,870	65.73
Feb. 23	1145	9,050	65.29	May 23	0045	15,200	68.23
Apr. 14	2400	*32,700	*73.20	May 29	1015	10,800	66.22

Minimum daily, 164 ft³/s Oct. 5, 6.

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	175	1130	725	563	1310	2410	2950	8480	7920	1460	465	290
2	171	839	740	485	1200	2070	3370	9200	6940	1340	452	285
3	168	643	801	523	1120	1860	3460	9600	6320	1240	440	280
4	166	522	823	547	1060	1750	3390	9220	5840	1180	434	277
5	164	449	763	511	1000	1670	3610	7930	5590	1120	444	279
6	164	405	725	510	974	1630	4290	6900	5340	1060	446	287
7	165	373	680	1140	987	1500	5620	5950	4740	1010	434	297
8	173	341	623	8690	1060	1350	7270	5230	4140	1010	419	290
9	202	317	619	12100	968	1310	7030	4690	3750	1020	405	279
10	217	302	606	7310	900	1280	6760	4330	3340	934	390	272
11	244	291	582	4890	888	1520	9100	4120	3040	883	380	267
12	266	282	555	3960	851	4310	9690	4330	2880	844	374	262
13	268	275	608	4060	799	4680	12000	5430	2930	812	363	257
14	264	387	1320	3450	851	3830	22500	8000	3160	791	353	253
15	252	824	1480	2860	793	3190	26500	8690	3310	759	343	249
16	233	772	1230	2400	791	2770	14800	7510	3320	733	335	248
17	218	818	1440	2080	831	2420	9920	7160	3140	711	329	265
18	210	937	1780	1840	852	2170	7960	7380	2970	687	323	293
19	213	860	1540	1710	866	2050	7120	8220	2900	664	319	285
20	222	765	1300	1620	945	2290	6870	11900	2550	647	316	270
21	232	782	1130	1520	950	1960	6970	11900	2300	626	354	259
22	250	915	993	1390	2350	1820	7540	12200	2200	605	379	253
23	363	1450	877	1280	8530	1800	7810	14500	2180	589	348	250
24	476	1630	718	1250	6980	1870	7280	10500	2090	579	335	248
25	422	1370	666	2050	5090	1860	6660	7930	1940	560	329	245
26	351	1140	573	3150	3940	1890	6330	7350	1800	548	325	243
27	315	961	494	2480	3290	2200	6190	8460	1710	531	324	243
28	424	854	651	1980	2830	2470	6100	9820	1630	516	317	240
29	498	824	686	1680	---	2530	6190	10600	1690	503	305	244
30	460	774	602	1510	---	2530	7110	9830	1680	496	300	260
31	772	---	574	1400	---	2630	---	8820	---	480	297	---
TOTAL	8718	22232	26904	80939	53006	69620	242390	256180	103340	24938	11377	7970
MEAN	281.2	741.1	867.9	2611	1893	2246	8080	8264	3445	804.5	367.0	265.7
MAX	772	1630	1780	12100	8530	4680	26500	14500	7920	1460	465	297
MIN	164	275	494	485	791	1280	2950	4120	1630	480	297	240
AC-FT	17290	44100	53360	160500	105100	138100	480800	508100	205000	49460	22570	15810
CFSM	0.31	0.83	0.97	2.92	2.12	2.51	9.03	9.23	3.85	0.90	0.41	0.30
IN.	0.36	0.92	1.12	3.36	2.20	2.89	10.07	10.65	4.30	1.04	0.47	0.33

SPOKANE RIVER BASIN

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	384.6	965.3	1519	1464	2064	2617	5393	5158	1974	665.0	350.9	294.4
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 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1911 - 2002
ANNUAL TOTAL	313468	907614	
ANNUAL MEAN	858.8	2487	1902
HIGHEST ANNUAL MEAN			3281
LOWEST ANNUAL MEAN			599
HIGHEST DAILY MEAN	7520	26500	50000
LOWEST DAILY MEAN	157	164	108
ANNUAL SEVEN-DAY MINIMUM	159	167	114
ANNUAL RUNOFF (AC-FT)	621800	1800000	1378000
ANNUAL RUNOFF (CFSM)	0.96	2.78	2.12
ANNUAL RUNOFF (INCHES)	13.03	37.72	28.87
10 PERCENT EXCEEDS	2000	7330	5070
50 PERCENT EXCEEDS	387		993
90 PERCENT EXCEEDS	178	266	250

e Estimated

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 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-AIRE (DEG C) (00020)	TEMPER-AURE (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + NO2+NO3 TOTAL (MG/L AS N) (00625)	NITRO-GEN, DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
OCT 24...	1200	488	48	7.3	5.5	7.6	23	5.64	2.15	--	<.10	--	<.004
JAN 08...	1200	8810	31	6.9	4.5	1.1	13	3.03	1.23	<.015	.56	.056	.009
FEB 05...	1430	999	42	6.9	4.0	2.5	18	4.32	1.79	<.015	E.05	E.010	E.003
APR 16...	0830	15700	27	6.3	3.0	3.8	11	2.71	1.06	<.015	.21	.032	.009
MAY 21...	0750	1230	25	7.0	9.0	6.0	11	2.71	1.03	<.015	.11	.023	.007
JUN 13...	0952	2920	37	7.3	19.5	9.4	15	3.75	1.44	E.013	<.10	<.013	E.003
JUL 08...	1410	1020	45	7.1	26.0	14.1	18	4.43	1.71	<.015	E.06	<.013	.004
AUG 26...	1250	325	49	7.4	24.5	16.4	22	5.24	2.05	<.015	.11	E.009	E.003

Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT 24...	E.003	<.04	<.04	30	E7	<.08	<1	2	1.0	3	4	--
JAN 08...	.100	E.02	.10	1340	18	.12	11	66	2.6	4	20	--
FEB 05...	E.003	<.04	<.04	E10	<10	<.08	<1	<1	.7	3	3	--
APR 16...	.051	E.04	.07	980	18	.22	9	40	2.1	6	16	58
MAY 21...	.036	E.03	.05	630	26	.46	6	24	2.5	6	12	--
JUN 13...	.005	E.03	E.03	50	E8	.08	<1	3	1.9	9	11	--
JUL 08...	.005	E.03	E.02	20	E6	E.07	<1	2	1.3	14	13	--
AUG 26...	.004	E.03	E.02	20	E5	E.07	<1	1	1.1	4	3	--

< Less than
E Estimated value

SPOKANE RIVER BASIN

12413125 CANYON CREEK ABOVE MOUTH AT WALLACE, ID

LOCATION.--Lat 47°28'21", long 115°54'49", 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 current year.

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

REMARKS.--Records fair except for estimated daily discharges and daily discharges above 400 ft³/s, which are poor.

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 daily discharge, 514 ft³/s May 29; minimum daily, 11 ft³/s Oct. 1-7.

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	11	e28	e19	15	18	24	36	92	356	131	30	18
2	11	e22	e19	15	17	23	37	112	327	111	30	18
3	11	e20	e20	15	17	23	38	140	322	103	28	18
4	11	e18	e19	14	17	22	40	123	291	98	28	18
5	11	e17	e18	13	16	22	49	104	297	90	28	18
6	11	e16	e18	14	15	22	67	91	300	83	29	18
7	11	e15	e18	26	16	22	75	84	242	79	27	19
8	12	e14	e17	50	17	24	75	75	190	87	25	17
9	13	e14	e17	52	15	22	72	69	153	81	25	17
10	12	e13	e17	40	16	20	75	65	143	75	24	16
11	13	e13	e16	34	15	26	93	63	136	71	24	16
12	12	e12	15	34	14	34	102	70	137	67	24	16
13	13	e12	18	32	16	29	141	96	162	64	23	15
14	16	e15	22	29	15	27	327	158	240	60	23	15
15	13	e14	19	27	15	26	245	138	284	57	22	15
16	12	e14	19	26	16	25	153	121	311	54	22	15
17	12	e16	23	25	15	23	109	126	284	51	21	17
18	12	e15	19	24	15	23	89	139	248	48	21	16
19	13	e15	19	24	16	23	80	240	226	46	21	15
20	13	e15	17	23	16	23	76	445	186	45	21	15
21	12	e18	16	23	17	24	77	372	176	43	27	15
22	15	e20	15	22	29	21	81	392	201	42	23	14
23	18	e22	13	21	36	23	79	306	226	41	21	14
24	15	e21	12	22	36	23	75	232	219	40	21	14
25	14	e20	12	27	32	24	72	184	200	39	20	14
26	13	e19	13	24	e30	25	72	194	193	37	20	14
27	14	e19	16	21	e28	28	73	275	193	36	20	14
28	21	e18	18	19	26	29	70	396	176	34	19	14
29	16	e19	16	22	---	28	70	514	172	33	19	14
30	e22	e18	15	22	---	28	81	497	155	33	19	14
31	e44	---	16	20	---	30	---	379	---	31	18	---
TOTAL	447	512	531	775	551	766	2729	6292	6746	1910	723	473
MEAN	14.42	17.07	17.13	25.00	19.68	24.71	90.97	203.0	224.9	61.61	23.32	15.77
MAX	44	28	23	52	36	34	327	514	356	131	30	19
MIN	11	12	12	13	14	20	36	63	136	31	18	14
AC-FT	887	1020	1050	1540	1090	1520	5410	12480	13380	3790	1430	938

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	14.44	18.53	19.45	19.22	18.53	31.60	88.68	165.1	149.2	52.10	21.83	15.10
MAX	16.1	26.3	28.1	25.0	23.8	50.7	141	203	225	85.9	29.7	17.1
(WY)	2000	2000	2000	2002	2000	1999	2000	2002	2002	1999	1999	1999
MIN	13.2	12.1	11.0	10.1	10.3	17.2	41.0	138	67.4	26.5	15.8	12.1
(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	11826.7	22455	
ANNUAL MEAN	32.40	61.52	51.22
HIGHEST ANNUAL MEAN			61.5
LOWEST ANNUAL MEAN			31.4
HIGHEST DAILY MEAN	247	514	514
LOWEST DAILY MEAN	8.3	11	8.3
ANNUAL SEVEN-DAY MINIMUM	9.3	11	9.3
ANNUAL RUNOFF (AC-FT)	23460	44540	37110
10 PERCENT EXCEEDS	82	179	137
50 PERCENT EXCEEDS	16	23	22
90 PERCENT EXCEEDS	10	14	12

e Estimated

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 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
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OCT	25...	0715	14	137	7.3	2.0	4.4	57	16.1	4.10	--	--	--	
JAN	09...	0730	55	113	7.2	2.0	2.8	39	10.9	2.76	--	--	--	
FEB	04...	1335	16	108	6.9	1.5	1.0	42	11.9	3.09	--	--	--	
APR	15...	1400	229	60	6.9	5.0	5.1	20	5.49	1.44	<.015	E.07	.101	.006
MAY	20...	0850	466	29	7.3	13.0	5.3	11	3.12	.787	<.015	.19	.046	.005
JUN	10...	1130	144	38	6.9	14.0	6.7	16	4.42	1.12	--	--	--	--
JUL	10...	0715	77	54	7.3	11.0	9.0	21	5.76	1.49	--	--	--	--
AUG	26...	1705	20	108	7.6	23.5	20.1	45	12.7	3.26	--	--	--	--

Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
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OCT	25...	--	21.4	21.4	60	22	14.4	22	76	81.7	3350	3340	--
JAN	09...	--	25.1	26.6	170	12	14.8	51	65	58.4	4150	3960	--
FEB	04...	--	18.2	18.5	50	15	14.2	21	71	81.8	2890	2700	--
APR	15...	.011	17.5	17.5	230	16	24.4	97	102	83.1	2830	2750	7.0
MAY	20...	.057	5.18	7.43	1880	18	16.8	650	219	39.5	791	976	--
JUN	10...	--	4.80	4.96	90	24	16.1	42	64	57.7	714	721	--
JUL	10...	--	6.48	6.68	50	17	13.4	22	60	64.5	972	930	--
AUG	26...	--	11.9	12.2	40	26	21.5	29	56	56.0	1500	1540	--

< 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 NW¹/₄NW¹/₄SW¹/₄ 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 current year.

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

REMARKS.--Records fair except for discharges May 7 to June 10, discharges above 200 ft³/s, and estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 245 ft³/s Apr. 14, 2002; minimum daily, 2.0 ft³/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, 245 ft³/s Apr. 14; minimum daily, 2.5 ft³/s Oct. 1-7.

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	e2.5	6.7	4.0	4.3	6.3	13	24	70	121	30	6.2	4.3
2	e2.5	5.4	4.4	4.6	6.0	e12	27	78	97	27	6.1	4.2
3	e2.5	4.7	4.7	4.5	e5.5	11	28	91	86	25	5.9	4.1
4	e2.5	4.2	4.4	4.5	5.7	11	29	85	78	22	5.9	4.1
5	e2.5	3.9	4.1	4.2	5.4	11	33	75	74	20	6.1	4.1
6	e2.5	3.7	4.1	4.5	5.4	11	41	63	71	19	6.3	4.1
7	e2.5	3.5	4.0	7.8	5.4	11	52	54	65	18	6.0	4.7
8	e3.0	3.4	3.8	13	6.1	e9.0	55	54	59	20	6.1	4.2
9	3.1	3.3	3.9	15	5.3	8.8	56	52	52	17	5.9	4.0
10	2.8	3.2	3.8	13	5.0	8.8	59	47	47	16	5.8	3.8
11	3.6	3.1	3.8	11	5.1	13	74	47	42	15	5.6	3.6
12	3.2	3.1	3.6	12	e5.0	17	76	49	41	14	5.5	3.5
13	3.3	3.1	4.2	11	e5.0	16	102	77	42	12	5.3	3.5
14	4.3	3.5	6.5	10	e5.0	15	245	108	46	12	5.2	3.4
15	3.4	3.4	5.5	9.0	e5.0	15	179	109	53	11	5.1	3.4
16	3.0	3.3	5.3	8.9	e5.0	14	86	105	59	11	5.2	3.4
17	2.9	3.9	e6.5	8.2	e5.0	13	65	105	59	10	5.2	4.2
18	2.8	3.7	e6.0	7.7	e5.5	13	63	107	55	9.6	5.1	3.8
19	3.3	3.4	e5.5	7.5	e6.0	13	59	137	49	9.3	5.0	3.5
20	3.3	3.4	5.1	7.3	e7.0	e12	56	182	41	8.9	5.0	3.4
21	3.1	4.5	4.8	7.2	8.5	11	58	148	39	8.5	7.4	3.4
22	3.7	4.6	4.7	e7.0	14	e12	65	157	39	7.9	6.4	3.3
23	5.3	5.4	e4.5	e6.5	18	12	64	150	41	7.7	5.5	3.3
24	4.2	4.8	e4.0	6.7	17	13	59	125	39	7.3	5.2	3.1
25	3.6	4.4	e3.5	8.7	15	14	55	103	e38	8.7	7.1	5.0
26	3.5	4.1	e3.5	e8.5	16	15	55	104	e38	6.9	5.0	3.0
27	3.9	3.8	e4.0	7.5	15	18	54	125	40	6.7	4.8	3.0
28	7.0	3.7	e5.5	e6.0	14	18	52	151	38	6.6	4.4	3.0
29	4.8	4.0	5.2	e6.5	---	18	52	162	38	6.4	4.4	3.1
30	5.8	3.8	e4.5	6.7	---	18	59	143	33	6.6	4.4	3.1
31	9.4	---	4.4	6.5	---	19	---	133	---	6.4	4.2	---
TOTAL	113.8	119.0	141.8	245.8	227.2	415.6	1982	3196	1620	404.9	169.2	108.6
MEAN	3.671	3.967	4.574	7.929	8.114	13.41	66.07	103.1	54.00	13.06	5.458	3.620
MAX	9.4	6.7	6.5	15	18	19	245	182	121	30	7.4	4.7
MIN	2.5	3.1	3.5	4.2	5.0	8.8	24	47	33	6.4	4.2	3.0
AC-FT	226	236	281	488	451	824	3930	6340	3210	803	336	215

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

	1999	2000	2001	2002
MEAN	3.858	5.069	6.628	6.888
MAX	4.62	7.58	11.3	10.0
(WY)	2000	2000	2000	1999
MIN	3.45	3.29	2.78	2.62
(WY)	1999	2001	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1999 - 2002
ANNUAL TOTAL	2981.7	8743.9	
ANNUAL MEAN	8.169	23.96	17.09
HIGHEST ANNUAL MEAN			24.0
LOWEST ANNUAL MEAN			7.96
HIGHEST DAILY MEAN	47	245	245
LOWEST DAILY MEAN	2.0	2.5	2.0
ANNUAL SEVEN-DAY MINIMUM	2.3	2.5	2.3
ANNUAL RUNOFF (AC-FT)	5910	17340	12380
10 PERCENT EXCEEDS	21	67	45
50 PERCENT EXCEEDS	4.4	6.7	7.5
90 PERCENT EXCEEDS	2.5	3.4	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 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
OCT 25...	0845	3.6	168	7.5	1.5	4.1	69	19.9	4.81	--	--	--	--
JAN 09...	0915	15	160	7.8	2.0	2.5	63	17.8	4.55	--	--	--	--
FEB 04...	1525	5.7	155	7.1	4.0	3.0	64	17.8	4.79	--	--	--	--
APR 16...	1300	86	112	7.6	10.0	5.3	46	12.3	3.76	--	--	--	--
MAY 20...	1020	186	60	7.2	15.0	5.9	24	6.53	1.82	<.015	.35	.077	.011
JUN 10...	1400	46	57	7.1	17.0	8.0	24	6.55	1.76	--	--	--	--
JUL 10...	0845	16	86	7.4	14.0	9.6	33	9.28	2.48	--	--	--	--
AUG 26...	1540	5.0	119	7.6	23.5	19.8	50	14.2	3.57	--	--	--	--

Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT 25...	--	22.2	22.8	30	E10	17.1	31	46	50.4	4750	4730
JAN 09...	--	16.8	22.6	140	E6	19.4	93	44	36.7	3910	3860
FEB 04...	--	14.5	15.9	30	E8	21.6	30	31	35.5	2980	2890
APR 16...	--	16.5	17.6	740	E6	13.6	212	140	48.7	2820	2870
MAY 20...	.102	8.20	13.6	2640	10	18.4	956	281	24.6	1460	2010
JUN 10...	--	6.57	6.95	80	<10	20.5	44	18	11.8	999	996
JUL 10...	--	10.4	11.4	20	E6	28.2	39	21	20.7	1800	1840
AUG 26...	--	8.52	9.06	20	E6	15.6	21	13	12.7	820	813

< 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 SW¹/₄SW¹/₄SW¹/₄ sec.4, T.48 N., R.3 E., Shoshone County, 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 ft³/s Feb. 9, 1996, gage height, 35.50 ft; minimum daily, 36 ft³/s Nov. 24, 1993.

EXTREMES FOR CURRENT YEAR.--Peak discharges above a base discharge of 1,600 ft³/s and maximum(*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 14	1345	*3,490	*31.01	May 29	2115	2,530	29.90
May 20	0900	2,430	29.76	June 17	0030	1,650	28.55

Minimum daily, 51 ft³/s Oct. 4, 5.

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	53	158	109	83	149	275	444	980	2030	629	157	96
2	52	122	117	82	143	248	474	1100	1810	555	153	94
3	52	107	123	82	136	230	460	1220	1740	513	151	93
4	51	97	116	80	133	220	449	1130	1710	480	149	92
5	51	92	109	78	131	215	499	1010	1750	450	152	92
6	52	88	107	82	132	212	648	888	1720	422	156	94
7	52	84	101	279	138	199	752	779	1460	403	146	100
8	55	81	96	735	153	186	801	693	1240	426	141	93
9	60	78	97	683	139	179	762	633	1090	394	136	89
10	56	76	94	473	136	178	798	593	994	367	132	87
11	69	74	91	361	137	267	1010	571	912	348	130	85
12	63	72	88	336	132	597	1100	608	910	334	127	84
13	65	70	98	337	134	486	1490	827	1050	320	122	82
14	75	83	193	304	132	402	2890	1250	1280	305	120	81
15	71	86	154	269	126	353	2310	1140	1460	289	117	81
16	61	85	142	241	127	324	1540	1040	1540	274	115	81
17	60	95	212	222	129	294	1180	1060	1450	261	112	89
18	58	96	187	203	134	272	968	1100	1300	250	110	88
19	64	92	159	194	143	266	855	1520	1180	241	109	84
20	68	90	138	189	151	271	815	2260	1020	232	108	81
21	63	114	126	183	160	242	826	2060	961	220	164	80
22	70	128	115	171	481	243	881	2220	1030	209	156	80
23	107	160	102	161	706	263	876	1970	1080	204	123	79
24	89	144	89	163	612	291	802	1560	1030	196	115	77
25	78	126	81	221	470	290	758	1350	960	190	112	76
26	72	115	77	239	387	301	749	1410	910	186	108	76
27	74	106	82	203	339	356	741	1770	889	181	105	76
28	129	102	93	176	307	375	712	2210	831	176	102	76
29	93	108	90	171	---	365	708	2350	838	172	100	78
30	107	104	85	162	---	361	829	2310	732	168	100	80
31	211	---	86	156	---	378	---	2140	---	161	97	---
TOTAL	2281	3033	3557	7319	6197	9139	28127	41752	36907	9556	3925	2544
MEAN	73.58	101.1	114.7	236.1	221.3	294.8	937.6	1347	1230	308.3	126.6	84.80
MAX	211	160	212	735	706	597	2890	2350	2030	629	164	100
MIN	51	70	77	78	126	178	444	571	732	161	97	76
AC-FT	4520	6020	7060	14520	12290	18130	55790	82820	73210	18950	7790	5050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2002, BY WATER YEAR (WY)

	84.05	167.8	206.2	217.5	310.4	393.2	739.9	905.1	595.4	207.9	103.7	77.33
MEAN	84.05	167.8	206.2	217.5	310.4	393.2	739.9	905.1	595.4	207.9	103.7	77.33
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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1987 - 2002	
ANNUAL TOTAL	58554		154337			
ANNUAL MEAN	160.4		422.8		329.4	
HIGHEST ANNUAL MEAN					564	
LOWEST ANNUAL MEAN					153	
HIGHEST DAILY MEAN	901	May 15	2890	Apr 14	7400	Feb 9 1996
LOWEST DAILY MEAN	44	Jan 28	51	Oct 4	36	Nov 24 1993
ANNUAL SEVEN-DAY MINIMUM	51	Sep 19	52	Oct 1	45	Sep 27 1994
ANNUAL RUNOFF (AC-FT)	116100		306100		238600	
10 PERCENT EXCEEDS	401		1110		822	
50 PERCENT EXCEEDS	93		171		160	
90 PERCENT EXCEEDS	55		78		66	

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 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
OCT 25...	0815	78	181	7.1	3.0	7.0	73	19.5	5.83	--	--	--	--
JAN 08...	0750	687	95	6.9	3.5	3.3	36	9.48	2.99	--	--	--	--
FEB 05...	0810	130	156	7.4	-5.0	1.0	61	15.9	5.09	--	--	--	--
APR 15...	1000	2340	77	7.4	6.0	4.3	29	7.86	2.38	<.015	.24	.084	.007
APR 16...	1530	1430	82	7.3	9.0	5.7	33	8.87	2.74	--	--	--	--
MAY 20...	1145	2350	46	7.3	17.0	6.0	20	5.52	1.57	--	--	--	--
JUN 11...	0925	902	66	7.0	9.0	5.7	28	7.61	2.26	--	--	--	--
JUL 10...	1035	373	87	7.6	28.0	12.7	35	9.40	2.85	--	--	--	--
AUG 28...	0720	104	146	7.4	14.0	12.1	61	16.3	5.02	--	--	--	--

Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT 25...	--	8.05	8.08	40	17	3.42	6	41	40.8	1250	1250	--
JAN 08...	--	2.42	4.45	750	E6	.96	85	256	17.3	422	660	--
FEB 05...	--	6.78	6.73	30	12	3.07	5	41	46.7	1140	995	--
APR 15...	.081	2.80	4.85	3220	E8	2.29	380	423	15.2	473	782	202
APR 16...	--	3.71	4.33	980	E7	2.91	125	135	17.6	578	690	47
MAY 20...	--	1.46	4.02	3250	13	4.24	483	433	13.6	238	561	--
JUN 11...	--	2.13	2.19	80	E5	2.68	13	27	18.4	318	325	--
JUL 10...	--	3.19	3.23	40	E9	4.76	9	30	28.8	455	442	--
AUG 28...	--	6.30	6.34	30	11	4.30	8	33	32.3	887	840	--

< 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 SE¹/₄NE¹/₄SE¹/₄, sec.36, T.49 N., R.2 E., Hydrologic Unit 17010302, in Shoshone County, 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 mi², 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, 20.0°C July 22, 24; minimum, 0.0 °C many days during winter months.

SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 194 microsiemens/cm Dec. 26; minimum recorded daily mean, 47 microsiemens/cm June 16.

TURBIDITY: Maximum recorded, >1,000 NTU Apr.14; minimum recorded, <2 NTU on many days during the year.

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	9.0	8.5	7.5	4.5	3.5	2.5	1.0	3.5	2.5	5.0	1.5
2	15.0	9.5	9.0	7.5	5.0	4.0	3.0	1.0	4.5	1.5	4.5	0.0
3	14.0	8.5	9.5	7.0	4.5	3.5	3.5	3.0	3.0	0.5	5.0	0.5
4	13.0	7.0	8.5	6.5	4.0	3.5	5.0	3.5	4.5	2.0	4.0	1.5
5	12.5	6.0	8.0	5.5	4.0	3.0	4.5	3.0	3.5	1.0	4.5	3.0
6	12.5	6.0	5.5	5.0	3.5	2.0	5.0	4.0	4.5	2.0	3.5	0.0
7	11.5	7.0	7.0	4.5	4.5	3.0	4.5	3.0	4.5	3.0	3.0	0.0
8	10.0	8.5	6.0	4.0	4.5	3.0	4.5	3.0	3.0	2.0	1.5	0.0
9	10.5	8.0	6.0	3.0	4.5	3.5	4.5	4.0	4.5	2.0	5.0	0.0
10	10.5	7.0	6.0	3.0	4.0	3.0	4.0	3.5	4.5	1.0	6.0	2.5
11	10.5	7.5	6.0	3.5	4.0	2.5	4.5	3.5	4.0	1.5	4.5	3.5
12	8.0	7.0	7.0	4.0	4.0	3.0	4.5	4.0	3.5	0.0	4.5	3.0
13	10.5	7.0	7.0	5.5	4.5	3.0	4.0	3.5	3.0	0.0	5.0	3.5
14	10.5	8.0	8.0	7.0	4.0	3.0	4.0	2.5	3.5	0.0	4.5	3.5
15	10.5	7.0	8.5	6.0	3.0	2.0	2.5	1.5	3.5	0.0	5.0	3.0
16	11.0	7.0	9.0	7.5	4.0	2.5	3.0	2.0	4.0	0.0	4.5	2.0
17	10.0	7.0	8.5	7.5	4.5	2.5	2.5	2.0	5.0	2.0	4.5	1.0
18	8.0	6.0	8.0	5.5	3.0	1.5	2.5	2.0	5.0	3.0	3.5	2.0
19	8.5	7.0	7.0	5.0	3.5	2.5	2.5	2.0	4.0	2.5	3.5	2.0
20	10.0	7.5	8.0	6.5	4.0	2.5	3.0	2.0	5.0	2.5	2.0	0.5
21	8.0	7.0	7.5	6.5	4.0	3.0	2.5	1.0	4.5	2.0	4.0	0.0
22	9.5	7.5	7.0	6.0	3.5	1.5	2.5	0.5	4.5	3.5	6.5	1.0
23	8.0	6.5	6.5	5.5	1.5	0.5	2.5	1.5	4.5	3.0	8.0	3.0
24	8.0	6.0	5.5	4.5	1.0	0.0	3.0	1.5	3.5	1.5	5.5	4.0
25	8.0	6.5	5.5	4.5	1.0	0.0	3.5	2.0	4.5	1.0	5.5	4.0
26	9.5	5.5	5.5	4.5	0.5	0.0	3.0	1.5	2.0	0.5	7.5	3.5
27	8.5	6.5	5.5	3.5	1.0	0.0	3.0	1.5	3.5	1.5	6.5	3.5
28	9.0	7.0	3.5	2.5	2.5	1.0	2.0	0.0	4.5	2.0	7.0	4.0
29	9.0	7.0	4.5	3.0	2.0	0.5	1.5	0.5	---	---	6.0	3.0
30	9.5	8.5	4.5	3.5	2.5	0.5	2.0	1.0	---	---	7.0	4.0
31	9.0	7.5	---	---	3.5	2.0	3.5	1.5	---	---	8.0	3.5
MONTH	16.0	5.5	9.5	2.5	5.0	0.0	5.0	0.0	5.5	0.0	8.0	0.0

SPOKANE RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	3.5	9.5	4.5	7.5	5.5	11.5	8.0	18.5	10.5	16.5	12.5
2	7.0	2.5	9.0	4.5	10.0	6.0	14.0	7.5	17.5	11.0	19.0	11.5
3	8.0	2.5	8.0	5.0	10.0	5.5	13.5	8.5	17.0	10.5	17.5	12.0
4	8.5	3.0	6.5	4.5	9.5	5.5	12.5	9.0	14.5	12.0	17.5	12.5
5	8.0	3.5	6.0	4.0	8.5	6.0	14.5	8.0	17.0	11.5	15.5	12.5
6	6.0	5.0	7.0	4.0	8.5	6.0	16.0	9.0	16.0	12.0	16.5	11.5
7	7.0	5.0	6.0	4.0	7.5	5.0	14.0	10.0	17.0	11.0	14.5	12.0
8	8.0	4.0	9.0	4.0	6.0	5.5	14.0	11.0	16.5	10.5	15.0	10.0
9	6.5	4.0	7.5	3.5	7.5	5.5	16.5	9.5	18.5	11.0	17.0	10.0
10	7.0	5.0	9.5	4.0	8.5	6.0	18.0	10.0	18.5	11.5	18.0	10.5
11	7.0	4.5	10.5	4.0	10.5	5.5	19.0	11.5	18.0	12.0	18.0	11.0
12	7.0	5.0	11.0	4.5	12.0	6.5	19.5	12.5	18.5	---	18.0	11.0
13	7.5	5.0	10.5	5.0	12.0	6.5	19.5	13.0	19.0	---	17.5	11.0
14	5.5	4.5	7.5	5.5	12.0	6.5	19.0	14.0	19.0	---	17.5	10.5
15	5.5	4.5	8.5	4.5	12.0	6.5	18.5	12.5	18.5	---	15.5	11.5
16	6.0	4.5	9.0	5.0	11.5	6.5	18.5	12.5	---	---	14.0	11.0
17	7.0	4.5	7.5	5.0	10.0	6.5	19.5	13.0	---	---	13.5	12.0
18	8.0	4.5	9.5	5.0	8.0	6.5	19.0	13.5	---	---	15.0	11.0
19	8.0	4.0	10.5	5.5	8.5	6.5	17.5	13.5	---	---	16.0	9.5
20	8.5	4.0	6.5	5.5	12.0	6.0	19.0	12.5	---	---	15.0	10.5
21	8.5	5.0	6.0	5.5	12.5	7.0	19.0	12.0	---	---	14.0	8.0
22	7.0	5.0	5.5	5.0	12.0	7.5	20.0	12.5	---	---	14.5	8.0
23	6.0	4.0	7.0	5.0	12.5	7.5	18.0	13.5	---	---	14.5	8.5
24	8.5	3.0	9.0	4.5	13.0	7.5	20.0	13.0	---	---	14.5	9.0
25	8.5	4.5	8.5	5.5	13.5	7.5	18.5	14.0	---	---	14.5	8.5
26	7.5	4.5	8.5	6.0	14.5	8.0	19.0	13.5	---	---	12.0	9.0
27	7.5	5.0	9.5	6.0	14.0	9.0	19.5	13.5	---	---	13.0	10.0
28	7.5	4.5	8.5	6.0	13.0	9.5	17.5	12.5	20.0	---	14.0	8.0
29	9.5	4.0	8.5	6.0	12.0	9.5	17.0	13.0	19.0	13.5	11.0	9.5
30	8.5	5.0	9.0	6.0	11.5	8.0	17.0	12.5	19.0	13.5	11.0	8.5
31	---	---	10.0	5.5	---	---	17.5	12.0	19.0	12.5	---	---
MONTH	9.5	2.5	11.0	3.5	14.5	5.0	20.0	7.5	---	---	19.0	8.0

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	161	163	184	163	149	132	74	54	67	---	143
2	182	174	167	185	166	152	129	71	56	70	---	144
3	184	178	168	184	164	152	130	66	57	73	---	144
4	184	179	171	187	165	151	131	66	57	74	---	145
5	184	178	172	185	165	152	126	69	57	76	---	145
6	185	177	169	185	165	152	114	72	57	78	---	145
7	185	178	172	144	170	151	106	74	60	80	---	144
8	179	179	174	97	165	153	105	77	64	80	---	145
9	177	179	171	105	167	156	107	78	66	81	---	147
10	181	179	170	120	168	157	102	79	68	82	---	148
11	174	179	171	130	167	152	90	79	70	84	---	149
12	178	178	173	134	167	120	89	77	69	86	---	150
13	178	178	171	133	166	128	82	69	63	88	---	151
14	171	171	159	136	165	135	64	59	55	89	---	153
15	173	167	173	141	167	141	68	59	50	90	---	152
16	181	169	177	144	167	142	76	62	47	92	---	152
17	184	163	167	147	165	145	82	63	48	95	---	147
18	185	163	171	149	163	145	87	62	52	98	---	149
19	183	165	174	149	167	144	88	58	54	100	---	151
20	176	165	180	148	168	142	89	52	57	102	---	152
21	181	154	180	148	170	150	86	54	59	103	---	153
22	177	151	182	150	139	150	82	55	57	104	---	153
23	161	140	184	153	118	148	82	57	54	106	---	152
24	174	150	188	152	123	145	83	61	54	108	---	152
25	185	157	184	151	132	144	83	64	56	110	---	153
26	186	161	194	153	139	143	84	63	57	111	---	153
27	180	165	188	158	143	138	84	58	57	112	---	153
28	160	164	181	162	147	136	84	54	58	112	140	154
29	175	163	181	160	---	138	85	52	60	113	141	154
30	170	165	184	161	---	138	80	51	62	113	141	149
31	148	---	182	161	---	137	---	53	---	116	143	---
MEAN	178	168	176	151	158	145	94	64	58	93	---	149

SPOKANE RIVER BASIN

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

TURBIDITY IN NTU, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	<2.0	<2.0	48	<2.0	7.8	<2.0	<2.0	<2.0	3.0	<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	6.2	<2.0	7.5	<2.0	<2.0	<2.0	<2.0	<2.0	5.3	<2.0
4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.5	<2.0	6.8	<2.0	<2.0	<2.0
5	<2.0	<2.0	<2.0	<2.0	12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
6	<2.0	<2.0	4.1	<2.0	12	<2.0	6.1	<2.0	3.0	<2.0	2.3	<2.0
7	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	190	2.5	16	<2.0	2.8	<2.0
8	13	<2.0	3.1	<2.0	100	<2.0	190	12	9.8	2.3	<2.0	<2.0
9	5.5	<2.0	3.7	<2.0	2.4	<2.0	18	2.8	3.8	<2.0	<2.0	<2.0
10	2.6	<2.0	<2.0	<2.0	2.1	<2.0	4.5	<2.0	2.3	<2.0	11	<2.0
11	8.7	<2.0	<2.0	<2.0	5.0	<2.0	6.9	<2.0	3.0	<2.0	51	<2.0
12	58	<2.0	<2.0	<2.0	<2.0	<2.0	8.0	<2.0	<2.0	<2.0	43	<2.0
13	<2.0	<2.0	<2.0	<2.0	8.0	<2.0	4.1	<2.0	3.3	<2.0	6.2	<2.0
14	3.7	<2.0	4.2	<2.0	24	<2.0	3.7	<2.0	<2.0	<2.0	2.0	<2.0
15	8.4	<2.0	<2.0	<2.0	6.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
16	3.8	<2.0	3.1	<2.0	4.9	<2.0	3.0	<2.0	<2.0	<2.0	<2.0	<2.0
17	7.2	<2.0	17	<2.0	8.2	<2.0	2.6	<2.0	<2.0	<2.0	<2.0	<2.0
18	4.1	<2.0	2.9	<2.0	2.6	<2.0	2.1	<2.0	<2.0	<2.0	<2.0	<2.0
19	11	<2.0	2.9	<2.0	2.0	<2.0	2.8	<2.0	30	<2.0	12	<2.0
20	11	<2.0	<2.0	<2.0	2.3	<2.0	2.9	<2.0	14	<2.0	2.4	<2.0
21	3.7	<2.0	20	<2.0	6.5	<2.0	4.0	<2.0	11	<2.0	<2.0	<2.0
22	7.2	<2.0	<2.0	<2.0	<2.0	<2.0	3.2	<2.0	220	6.1	3.2	<2.0
23	250	<2.0	3.4	<2.0	<2.0	<2.0	3.5	<2.0	25	6.1	11	<2.0
24	5.0	<2.0	<2.0	<2.0	<2.0	<2.0	13	<2.0	6.6	<2.0	<2.0	<2.0
25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	22	4.0	8.2	<2.0	3.4	<2.0
26	2.7	<2.0	20	<2.0	7.2	<2.0	14	<2.0	11	<2.0	3.7	<2.0
27	15	<2.0	7.0	<2.0	2.9	<2.0	3.0	<2.0	<2.0	<2.0	4.8	<2.0
28	90	<2.0	9.5	<2.0	<2.0	<2.0	2.1	<2.0	3.9	<2.0	8.5	<2.0
29	10	<2.0	5.8	<2.0	<2.0	<2.0	3.7	<2.0	---	---	<2.0	<2.0
30	3.7	<2.0	3.7	<2.0	<2.0	<2.0	2.2	<2.0	---	---	14	<2.0
31	110	<2.0	---	---	7.0	<2.0	<2.0	<2.0	---	---	12	<2.0
MONTH	250	2.0	48	2.0	100	2.0	190	2.0	220	2.0	51	2.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	140	<2.0	13	5.8	59	40	---	---	---	---	67	<2.0
2	10	<2.0	18	10	42	22	---	---	---	---	<2.0	<2.0
3	92	<2.0	23	15	31	19	---	---	---	---	3.5	<2.0
4	15	<2.0	20	9.5	25	17	---	---	---	---	<2.0	<2.0
5	15	<2.0	14	8.1	26	18	---	---	---	---	3.9	<2.0
6	16	2.0	11	4.2	25	14	---	---	---	---	<2.0	<2.0
7	22	7.9	5.7	3.0	19	9.6	---	---	---	---	25	<2.0
8	170	6.6	6.1	<2.0	13	6.8	---	---	---	---	<2.0	<2.0
9	9.2	3.1	3.9	<2.0	9.6	3.9	---	---	---	---	<2.0	<2.0
10	30	2.1	3.2	<2.0	9.9	2.9	---	---	---	---	<2.0	<2.0
11	89	16	2.8	<2.0	5.5	<2.0	---	---	---	---	<2.0	<2.0
12	30	13	2.3	<2.0	4.2	<2.0	---	---	---	---	<2.0	<2.0
13	170	30	12	2.3	6.7	2.0	---	---	---	---	<2.0	<2.0
14	>1000	130	30	12	13	4.7	---	---	---	---	<2.0	<2.0
15	500	95	22	9.2	16	9.6	---	---	---	---	<2.0	<2.0
16	110	40	12	6.4	23	12	---	---	---	---	<2.0	<2.0
17	42	20	13	7.9	17	7.7	---	---	---	---	76	<2.0
18	24	10	15	7.5	30	6.4	---	---	---	---	<2.0	<2.0
19	15	6.2	220	14	13	3.5	---	---	---	---	13	<2.0
20	8.1	4.1	270	110	7.0	2.6	---	---	---	---	<2.0	<2.0
21	12	3.2	120	78	7.8	2.6	---	---	---	---	<2.0	<2.0
22	9.2	4.9	120	75	6.9	<2.0	---	---	---	---	<2.0	<2.0
23	7.8	4.2	88	37	6.3	3.5	---	---	---	---	<2.0	<2.0
24	5.6	3.0	42	17	5.0	2.9	---	---	---	---	<2.0	<2.0
25	5.7	2.7	19	9.7	4.7	2.0	---	---	---	---	3.0	<2.0
26	5.8	2.3	27	12	---	---	---	---	---	---	5.6	<2.0
27	3.6	<2.0	59	26	---	---	---	---	---	---	<2.0	<2.0
28	4.0	<2.0	130	56	---	---	---	---	---	---	2.1	<2.0
29	3.7	<2.0	200	100	---	---	---	---	<2.0	<2.0	2.7	<2.0
30	7.7	2.8	140	78	---	---	---	---	<2.0	<2.0	<2.0	<2.0
31	---	---	87	51	---	---	---	---	<2.0	<2.0	---	---
MONTH	1000	2.0	270	2.0	---	---	---	---	---	---	76	2.0

> Actual value is known to be greater than the value shown
 < 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 SE¹/₄NW¹/₄SW¹/₄ sec.35, T.49 N., R.2 E., Hydrologic Unit 17010302, Shoshone County, 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 mi², 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, 23.0 °C July 29, 2000, July 10, 2001; 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; minimum recorded, <2 NTU on many days.

EXTREMES FOR CURRENT YEAR.--

- WATER TEMPERATURE: Maximum, 21.0 °C July 22, 24; minimum, 0.0 °C many days during winter months.
- SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 419 microsiemens/cm Oct. 1; minimum recorded daily mean, 58 microsiemens/cm May 29-30.
- TURBIDITY: Maximum recorded, >1000 NTU Oct. 11, 31, Feb. 9, Apr. 14; minimum recorded, <2 NTU on many days during the year.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 SOLVED (MG/L AS N) (00631)	PHOS-PHORUS SOLVED (MG/L AS P) (00666)
OCT 24...	1430	95	298	7.5	6.0	7.3	130	32.2	11.5	--	--	--	--
JAN 08...	0950	860	120	7.0	4.5	3.6	43	11.6	3.52	--	--	--	--
FEB 05...	1050	150	220	7.1	-1.0	2.0	87	22.9	7.30	--	--	--	--
APR 16...	1515	2200	104	7.2	12.0	6.1	40	10.5	3.32	<.015	E.08	.099	.007
MAY 20...	1315	2760	54	7.3	17.5	6.6	22	6.00	1.69	--	--	--	--
JUN 11...	1330	988	101	7.1	20.0	9.2	40	11.2	3.00	--	--	--	--
JUL 10...	1250	385	132	7.3	34.0	16.1	52	14.0	4.04	--	--	--	--
AUG 28...	0950	113	223	7.4	22.0	14.6	91	24.1	7.53	--	--	--	--

Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT 24...	--	10.6	10.9	480	77	3.65	36	2440	2520	1440	1480
JAN 08...	--	6.03	10.9	3140	11	1.36	340	623	74.1	630	1090
FEB 05...	--	12.4	12.7	250	184	4.22	9	359	380	1800	1710
APR 16...	.034	4.84	5.48	1340	E10	3.16	171	227	90.3	728	855
MAY 20...	--	1.78	4.62	3880	17	4.62	571	501	28.3	281	636
JUN 11...	--	3.01	3.06	140	37	5.80	17	82	72.3	442	453
JUL 10...	--	4.61	4.85	130	68	9.61	16	134	137	678	671
AUG 28...	--	10.4	10.5	220	109	6.68	18	301	298	1370	1420

< Less than
E Estimated value

SPOKANE RIVER BASIN

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

WATER TEMPERATURE, DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	9.5	8.5	7.5	4.5	4.0	2.5	1.0	3.5	2.5	5.5	1.5
2	15.5	10.0	9.0	8.0	5.0	4.0	3.0	1.0	5.0	2.0	5.0	0.0
3	15.0	9.0	10.0	7.0	4.5	3.5	3.5	3.0	3.0	0.0	5.5	0.5
4	13.5	7.5	9.0	6.5	4.0	3.5	5.0	3.0	5.0	2.5	4.0	1.5
5	13.5	6.0	8.0	6.0	4.0	3.0	4.5	3.0	4.0	0.5	4.5	3.0
6	13.0	6.5	6.0	5.0	3.5	2.5	5.0	3.5	4.5	2.0	4.0	0.0
7	11.5	7.5	7.5	5.0	5.0	3.0	4.5	3.5	4.5	3.5	3.5	0.0
8	10.0	9.0	6.5	4.0	4.5	3.0	4.5	3.5	3.5	2.0	1.5	0.0
9	10.5	8.0	6.5	3.5	5.0	3.5	5.0	4.0	5.0	2.5	5.0	0.0
10	10.5	7.5	6.5	3.0	4.0	3.0	4.5	3.5	4.5	1.0	6.0	2.5
11	11.0	8.5	6.5	3.5	4.0	3.0	4.5	3.5	4.5	2.0	4.5	3.5
12	8.5	7.0	7.0	4.0	4.0	3.0	4.5	4.0	4.0	0.0	4.5	3.0
13	11.0	7.0	6.5	5.5	4.0	3.0	4.5	3.5	3.5	0.0	5.0	3.0
14	11.0	8.5	8.5	6.5	4.0	3.0	4.0	2.5	4.0	0.0	4.5	3.5
15	11.0	7.0	8.5	6.0	3.0	2.0	3.0	1.5	4.0	0.0	5.0	3.0
16	11.5	7.0	9.0	8.0	4.0	2.5	3.0	1.5	5.0	0.0	4.5	2.5
17	10.5	7.5	9.0	8.0	4.5	3.0	2.5	2.0	6.0	2.0	5.0	1.5
18	8.0	6.0	8.5	6.0	3.0	1.5	2.5	2.0	5.0	3.0	3.5	2.0
19	8.0	7.0	7.0	5.0	3.5	2.5	2.5	2.0	4.5	2.5	4.0	2.0
20	11.0	7.5	8.5	6.5	4.0	2.5	3.0	2.0	5.5	2.5	2.5	0.5
21	8.5	7.0	7.5	6.5	4.0	3.0	2.5	1.5	4.5	2.0	4.5	0.0
22	9.5	7.5	7.0	6.0	4.0	2.0	2.5	0.5	4.5	3.5	6.5	1.0
23	8.5	6.5	6.5	5.5	2.0	0.5	2.5	1.5	4.5	3.0	8.5	3.5
24	8.0	6.0	5.5	4.5	1.5	0.0	3.0	1.5	3.5	1.5	6.0	4.0
25	8.0	6.5	5.5	4.5	0.5	0.0	3.5	2.5	4.5	1.0	5.5	4.0
26	9.5	6.0	5.5	4.5	0.0	0.0	3.0	1.5	2.0	0.5	8.0	4.0
27	8.5	7.0	5.5	3.5	0.5	0.0	3.0	1.0	3.5	1.5	6.5	4.0
28	9.5	7.5	3.5	2.5	2.0	0.5	2.5	0.0	5.0	2.0	7.0	4.0
29	9.0	7.0	4.5	2.5	2.0	0.5	1.5	0.5	---	---	6.5	3.5
30	9.5	8.5	4.5	4.0	2.0	0.0	2.0	1.0	---	---	7.0	4.0
31	9.0	7.5	---	---	3.5	2.0	3.5	1.5	---	---	8.0	3.5
MONTH	16.5	6.0	10.0	2.5	5.0	0.0	5.0	0.0	6.0	0.0	8.5	0.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	4.0	10.0	4.5	7.5	6.0	12.5	8.0	19.0	11.0	16.5	13.0
2	7.5	2.0	9.5	4.5	10.5	6.0	15.0	7.5	18.0	12.0	19.5	12.0
3	8.5	2.5	8.5	5.0	10.5	5.5	14.0	8.5	17.5	11.0	18.0	12.5
4	9.0	3.0	6.5	4.5	10.5	6.0	13.0	9.5	15.0	12.5	18.5	13.0
5	8.0	3.5	6.0	4.5	9.0	6.5	14.5	8.5	18.0	11.5	16.0	13.0
6	6.0	5.0	7.0	4.0	9.0	6.0	16.0	9.0	16.5	12.5	16.5	12.0
7	7.0	5.0	6.0	4.0	7.5	5.0	14.5	10.5	18.0	11.5	16.0	12.5
8	8.5	4.0	9.5	4.0	6.5	5.5	14.5	11.5	17.5	11.0	15.0	10.5
9	6.5	4.0	8.0	3.5	7.5	5.5	17.0	9.5	19.0	11.5	17.5	10.0
10	7.0	5.0	10.0	4.0	8.5	6.0	18.5	10.5	19.0	12.5	18.5	10.5
11	7.0	4.5	11.0	4.5	11.0	5.5	19.5	12.0	18.5	12.5	18.5	11.5
12	7.0	5.0	11.5	5.0	12.0	6.5	20.0	13.0	19.0	11.5	18.5	11.5
13	8.0	5.0	11.0	5.0	12.5	7.0	20.0	13.5	20.0	12.0	18.0	11.5
14	5.5	4.5	8.0	6.0	12.5	6.5	19.5	14.5	19.5	13.0	18.0	11.0
15	5.5	4.5	8.5	4.5	12.5	6.5	19.5	13.0	19.0	12.0	16.0	12.0
16	6.5	4.5	9.5	5.0	11.5	6.5	19.5	13.0	19.0	12.0	14.0	11.5
17	7.0	4.5	8.0	5.0	10.0	6.5	20.5	13.5	19.0	11.5	13.5	12.5
18	8.0	4.5	10.0	5.0	8.5	7.0	20.0	14.0	19.0	11.5	15.0	11.5
19	8.0	4.0	11.0	5.5	9.0	6.5	18.0	14.0	18.0	11.5	16.5	10.0
20	8.5	4.0	7.0	6.0	12.5	6.0	19.5	13.0	18.0	12.5	15.5	11.0
21	8.5	5.0	6.0	5.5	13.0	7.0	20.0	13.0	19.0	13.5	14.5	8.5
22	7.0	5.0	6.0	5.5	12.5	8.0	21.0	13.0	19.5	12.5	14.5	8.0
23	6.0	4.5	7.0	5.0	13.0	8.0	18.5	14.0	19.5	12.5	15.0	9.0
24	8.5	3.0	9.5	5.0	13.5	7.5	21.0	13.5	19.5	13.0	15.0	9.5
25	9.0	4.5	9.0	5.5	14.0	8.0	19.0	14.5	18.5	13.0	15.0	9.0
26	8.0	4.5	9.0	6.0	15.0	8.5	19.0	14.0	20.0	13.0	12.5	9.5
27	7.5	5.0	9.5	6.0	14.5	9.5	20.0	14.0	19.5	13.5	13.5	10.5
28	7.5	4.5	9.0	6.0	13.5	9.5	17.5	13.0	20.5	13.0	14.5	8.5
29	10.0	4.0	9.0	6.0	12.5	9.5	17.5	13.0	20.0	14.0	11.5	10.0
30	9.0	5.0	9.5	6.0	11.5	8.0	17.0	13.0	19.5	14.0	10.5	9.0
31	---	---	10.0	5.5	---	---	18.0	12.5	19.5	13.0	---	---
MONTH	10.0	2.0	11.5	3.5	15.0	5.0	21.0	7.5	20.5	11.0	19.5	8.0

SPOKANE RIVER BASIN

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

SPECIFIC CONDUCTANCE, in MICROSIEMENS/CM AT 25 C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	419	229	312	287	185	184	154	101	65	92	205	277
2	353	252	273	286	199	174	154	103	70	111	188	281
3	237	210	257	226	205	190	160	98	74	112	189	278
4	237	310	301	227	209	194	169	101	78	119	185	285
5	236	319	299	253	221	190	159	109	78	125	197	261
6	237	294	297	295	223	196	136	112	78	120	209	228
7	236	264	267	222	236	196	125	118	85	112	222	219
8	227	276	221	128	242	199	120	121	95	109	231	217
9	219	309	307	124	257	211	127	118	102	109	220	240
10	229	265	308	141	259	227	125	124	107	123	202	245
11	273	209	289	170	250	211	110	128	110	131	199	237
12	296	209	300	183	248	145	110	121	107	138	215	248
13	305	208	286	186	254	156	100	113	96	145	234	278
14	305	200	223	182	269	175	75	95	77	150	245	290
15	304	225	220	196	269	184	86	96	71	156	251	300
16	333	276	275	197	281	193	103	102	67	164	255	304
17	350	279	243	222	276	201	116	101	68	167	268	298
18	340	269	248	200	269	207	128	99	76	173	268	300
19	328	271	262	206	264	210	135	89	76	160	220	303
20	228	275	274	235	261	205	137	66	86	149	216	270
21	345	233	285	231	272	218	135	67	88	148	182	198
22	351	188	264	230	202	220	130	70	84	150	194	197
23	284	238	306	237	147	214	129	69	80	160	230	226
24	294	232	312	226	160	203	130	81	75	175	242	323
25	319	256	245	201	174	203	122	95	73	183	252	380
26	298	252	350	172	170	201	123	92	74	192	247	381
27	228	259	341	206	171	181	119	78	72	199	209	317
28	256	311	267	218	201	167	120	67	74	200	229	321
29	291	262	242	198	---	167	116	58	77	202	262	325
30	286	223	226	200	---	167	104	58	80	205	270	286
31	228	---	268	205	---	164	---	61	---	210	276	---
MEAN	286	253	276	209	228	192	125	94	81	151	226	277

TURBIDITY IN NTU, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10	<2.0	23	2.2	7.6	<2.0	2.1	<2.0	5.6	<2.0	8.5	<2.0
2	12	<2.0	4.1	<2.0	4.2	<2.0	<2.0	<2.0	13	<2.0	<2.0	<2.0
3	15	<2.0	2.3	<2.0	8.9	<2.0	3.3	<2.0	8.7	<2.0	2.9	<2.0
4	12	<2.0	2.1	<2.0	<2.0	<2.0	7.0	<2.0	16	2.3	2.6	<2.0
5	18	2.3	180	<2.0	<2.0	<2.0	3.0	<2.0	29	3.4	3.4	<2.0
6	180	2.3	6.1	<2.0	7.0	<2.0	15	<2.0	20	3.1	3.6	<2.0
7	4.1	2.2	2.7	<2.0	2.5	<2.0	180	5.5	99	6.3	2.8	<2.0
8	63	2.2	<2.0	<2.0	2.2	<2.0	180	53	280	6.7	4.5	<2.0
9	21	3.5	2.2	<2.0	<2.0	<2.0	60	7.3	>1000	4.5	5.9	<2.0
10	19	2.7	2.9	<2.0	2.1	<2.0	13	3.2	29	5.9	7.9	<2.0
11	>1000	10	<2.0	<2.0	<2.0	<2.0	4.8	<2.0	24	7.5	60	3.8
12	80	14	<2.0	<2.0	5.7	<2.0	17	<2.0	30	6.9	60	4.8
13	63	13	7.8	<2.0	17	<2.0	6.1	<2.0	32	2.7	8.5	3.3
14	57	10	9.6	<2.0	59	4.6	2.9	<2.0	26	<2.0	7.0	2.3
15	56	4.5	<2.0	<2.0	5.6	<2.0	4.4	<2.0	3.2	<2.0	22	<2.0
16	94	2.4	<2.0	<2.0	4.3	<2.0	3.3	<2.0	2.5	<2.0	8.5	<2.0
17	13	<2.0	38	<2.0	17	4.3	3.4	<2.0	11	<2.0	2.7	<2.0
18	13	<2.0	2.0	<2.0	5.6	<2.0	2.9	<2.0	24	<2.0	3.6	<2.0
19	43	2.6	<2.0	<2.0	3.9	<2.0	2.2	<2.0	21	<2.0	14	<2.0
20	20	3.9	8.3	<2.0	3.5	<2.0	2.7	<2.0	26	2.1	14	2.3
21	56	3.2	47	<2.0	4.0	<2.0	3.3	<2.0	38	<2.0	8.4	2.1
22	40	3.6	4.6	<2.0	2.7	<2.0	3.8	<2.0	170	13	11	<2.0
23	58	16	9.3	<2.0	2.9	<2.0	5.5	<2.0	37	12	12	2.1
24	32	6.4	7.0	<2.0	4.1	<2.0	12	<2.0	13	4.0	6.5	2.7
25	140	5.5	7.7	<2.0	7.1	<2.0	21	4.9	6.0	3.1	4.3	2.2
26	16	4.3	6.8	<2.0	8.5	<2.0	15	2.1	3.4	<2.0	5.5	2.1
27	120	3.4	4.5	<2.0	7.0	<2.0	3.1	<2.0	3.6	<2.0	9.1	4.0
28	120	6.9	2.6	<2.0	3.1	<2.0	2.8	<2.0	6.8	<2.0	10	3.5
29	97	4.5	5.4	<2.0	7.0	<2.0	5.0	<2.0	---	---	35	2.8
30	24	5.3	3.7	<2.0	<2.0	<2.0	8.1	<2.0	---	---	8.1	2.8
31	>1000	4.1	---	---	230	<2.0	3.9	<2.0	---	---	6.5	2.7
MONTH	1000	2.0	180	2.0	230	2.0	180	2.0	1000	2.0	60	2.0

SPOKANE RIVER BASIN

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

TURBIDITY IN NTU, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14	4.0	13	6.4	68	45	6.9	<2.0	5.3	<2.0	3.4	<2.0
2	8.3	3.4	21	9.9	45	25	3.4	<2.0	2.1	<2.0	3.4	<2.0
3	6.7	<2.0	26	15	30	23	4.0	<2.0	2.5	<2.0	3.4	<2.0
4	6.1	<2.0	19	9.3	30	18	3.3	<2.0	<2.0	<2.0	2.4	<2.0
5	240	3.0	22	7.8	29	22	5.7	<2.0	3.6	<2.0	3.2	<2.0
6	500	6.3	10	4.4	28	17	3.4	<2.0	22	<2.0	4.4	<2.0
7	240	11	6.3	3.3	20	12	4.1	<2.0	9.7	<2.0	26	<2.0
8	24	9.7	6.5	2.3	12	7.7	16	<2.0	9.7	<2.0	5.7	<2.0
9	12	5.4	3.4	2.1	10	6.1	4.7	<2.0	<2.0	<2.0	5.7	<2.0
10	32	6.7	6.7	<2.0	8.4	4.4	6.2	<2.0	<2.0	<2.0	3.3	<2.0
11	43	26	3.0	<2.0	7.0	2.9	4.8	<2.0	<2.0	<2.0	4.2	<2.0
12	45	17	4.9	<2.0	4.4	<2.0	6.5	<2.0	2.7	<2.0	3.8	<2.0
13	240	45	13	2.8	6.5	2.4	6.5	<2.0	4.4	<2.0	5.3	<2.0
14	>1000	230	25	11	15	6.5	7.7	2.1	3.3	<2.0	2.0	<2.0
15	520	92	20	9.6	21	10	16	2.8	8.4	<2.0	5.9	<2.0
16	100	40	14	5.8	21	13	9.9	2.2	2.8	<2.0	24	<2.0
17	43	18	10	6.2	20	9.0	32	2.0	3.2	<2.0	140	<2.0
18	20	11	14	7.5	32	6.6	270	<2.0	3.4	<2.0	37	4.0
19	12	6.7	170	12	12	4.1	7.3	<2.0	<2.0	<2.0	10	<2.0
20	18	6.0	260	130	5.5	2.6	7.8	<2.0	<2.0	<2.0	4.5	<2.0
21	8.7	5.3	160	78	4.5	2.2	7.2	3.3	94	<2.0	8.8	<2.0
22	13	5.8	160	92	5.9	2.6	6.7	<2.0	440	<2.0	7.8	<2.0
23	8.4	5.1	92	41	6.8	3.3	2.0	<2.0	17	<2.0	2.0	<2.0
24	7.1	4.1	42	16	4.9	2.0	8.3	<2.0	6.2	<2.0	6.2	<2.0
25	8.5	3.5	20	12	5.5	<2.0	<2.0	<2.0	2.8	<2.0	6.3	<2.0
26	5.9	2.9	40	12	5.9	<2.0	5.4	<2.0	7.0	<2.0	25	<2.0
27	4.9	2.4	58	28	3.7	<2.0	4.6	<2.0	3.0	<2.0	2.6	<2.0
28	5.6	2.8	150	56	4.0	<2.0	3.2	2.3	<2.0	<2.0	3.7	<2.0
29	4.8	2.3	190	110	14	<2.0	4.1	2.5	<2.0	<2.0	18	<2.0
30	12	3.6	160	93	2.8	<2.0	2.8	<2.0	<2.0	<2.0	5.3	<2.0
31	---	---	100	60	---	---	2.7	<2.0	<2.0	<2.0	---	---
MONTH	1000	2.0	260	2.0	68	2.0	270	2.0	440	2.0	140	2.0

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

< 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 SW¹/₄NE¹/₄NW¹/₄ sec.11, T.47 N., R.2 E., Shoshone County, 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.--Records fair except for estimated daily discharges and discharges above 100 ft³/s, which are poor. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 189 ft³/s Apr. 14, 2002; minimum daily, 0.38 ft³/s Oct. 18, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 189 ft³/s Apr. 14; minimum daily, 0.38 ft³/s Oct. 18.

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	0.47	1.9	2.1	1.5	3.4	6.7	12	47	57	4.8	1.6	0.79
2	0.46	1.1	2.1	1.6	3.2	6.1	13	50	43	4.5	1.5	0.82
3	0.44	0.89	2.2	1.7	3.0	5.7	13	55	42	4.1	1.5	0.75
4	e0.45	0.76	2.1	1.6	3.0	5.6	13	39	41	3.6	1.4	0.75
5	e0.45	0.70	2.0	1.6	3.0	5.4	17	28	44	3.3	1.5	0.77
6	e0.45	0.63	1.8	2.1	3.0	5.1	26	21	39	3.1	1.5	0.78
7	e0.45	0.56	1.6	50	3.1	4.6	28	17	26	3.1	1.4	0.78
8	e0.45	0.53	1.6	68	3.1	4.4	28	15	18	2.9	1.4	0.81
9	e0.50	0.52	1.7	43	2.7	4.3	25	13	14	2.6	1.3	0.79
10	e0.50	0.50	1.6	25	2.8	4.4	36	12	13	2.6	1.3	0.77
11	0.67	0.49	1.6	17	2.8	14	44	13	15	2.5	1.3	0.75
12	0.46	0.50	1.5	15	2.6	31	48	17	20	2.4	1.2	0.74
13	0.49	0.52	2.8	13	2.8	17	75	38	30	2.4	1.2	0.73
14	0.59	3.3	9.2	11	2.6	12	189	65	35	2.2	1.1	0.73
15	0.46	2.3	4.6	9.1	2.6	10	102	48	37	2.2	1.1	0.70
16	0.42	1.7	4.1	7.8	2.7	8.9	54	40	34	2.1	1.1	0.71
17	0.39	2.0	6.7	6.8	2.8	7.6	31	43	26	2.0	1.1	0.80
18	0.38	1.8	5.4	6.1	2.9	6.8	21	49	19	2.0	1.0	0.84
19	0.52	1.6	4.1	5.8	3.2	6.6	20	84	17	1.9	1.0	0.72
20	0.52	1.5	3.4	5.6	3.1	6.3	21	111	13	1.8	0.97	0.73
21	0.45	4.2	3.0	5.1	3.9	5.7	25	81	13	1.7	1.3	0.75
22	0.78	8.7	2.6	4.6	16	5.8	30	73	13	1.7	1.3	0.74
23	1.4	13	2.2	4.3	21	5.8	26	52	13	1.7	1.0	0.72
24	0.65	7.2	2.0	4.5	16	6.1	22	34	12	1.6	0.95	0.69
25	0.50	4.7	1.9	5.8	12	6.2	20	32	11	1.6	0.94	0.69
26	0.48	3.4	1.8	5.3	9.7	6.8	20	48	9.4	1.6	0.93	0.68
27	0.58	2.7	1.8	4.4	8.7	8.6	20	74	8.6	1.6	0.92	0.68
28	1.6	2.5	1.8	4.1	7.7	8.5	20	90	7.2	1.6	0.89	0.70
29	0.68	2.5	1.7	3.9	---	8.0	23	82	6.6	1.6	0.84	0.72
30	1.3	2.1	1.6	3.7	---	8.1	36	74	5.3	1.6	0.82	0.75
31	5.6	---	1.6	3.6	---	9.4	---	63	---	1.6	0.84	---
TOTAL	23.54	74.80	84.2	342.6	153.4	251.5	1058	1508	682.1	74.0	36.20	22.38
MEAN	0.759	2.493	2.716	11.05	5.479	8.113	35.27	48.65	22.74	2.387	1.168	0.746
MAX	5.6	13	9.2	68	21	31	189	111	57	4.8	1.6	0.84
MIN	0.38	0.49	1.5	1.5	2.6	4.3	12	12	5.3	1.6	0.82	0.68
AC-FT	47	148	167	680	304	499	2100	2990	1350	147	72	44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

MEAN	0.678	1.504	3.637	5.098	4.938	7.561	29.63	32.27	11.94	1.885	0.912	0.638
MAX	0.76	2.49	7.76	11.1	8.57	10.9	43.1	48.6	22.7	2.39	1.17	0.75
(WY)	2002	2002	2000	2002	2000	2000	2000	2002	2002	2002	2002	2002
MIN	0.60	0.51	0.44	0.50	0.64	3.70	10.6	18.8	2.83	1.23	0.73	0.52
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 2000 - 2002
ANNUAL TOTAL	1392.96	4310.72	
ANNUAL MEAN	3.816	11.81	7.628
HIGHEST ANNUAL MEAN			11.8
LOWEST ANNUAL MEAN			3.45
HIGHEST DAILY MEAN	52	May 1	189
LOWEST DAILY MEAN	0.38	Oct 18	0.38
ANNUAL SEVEN-DAY MINIMUM	0.45	Sep 19	0.45
ANNUAL RUNOFF (AC-FT)	2760	8550	5530
10 PERCENT EXCEEDS	9.1	37	21
50 PERCENT EXCEEDS	1.2	3.1	1.6
90 PERCENT EXCEEDS	0.49	0.69	0.48

e Estimated

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, 14.5 °C Aug. 1, 2000; minimum, 0.5 °C, many days during winter months.
- SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 28 microsiemens/cm Aug. 17-18, 22-24, 27-28, Sep. 3-4, 24, 2001; 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, 13.5 °C July 31, Aug. 2; minimum, 1.5 °C Dec. 25-30, Jan. 24-25, 28-29, Feb. 8, 12-16.
- SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 27 microsiemens/cm Oct. 2-3, Sept. 7, 18-21, 26; minimum recorded daily mean, 10 microsiemens/cm April 13.
- TURBIDITY: Maximum recorded, 620 NTU Jan. 10; 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 TEMPERATURE, DEGREES CELCIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002												
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10.0	9.0	6.5	6.5	3.5	3.0	2.5	2.0	2.5	2.0	---	---
2	10.0	9.5	7.0	6.5	3.5	3.5	2.5	2.0	2.5	2.0	---	---
3	9.5	9.0	6.5	6.0	3.5	3.0	3.0	2.5	2.5	2.0	---	---
4	---	---	6.5	6.0	3.0	3.0	3.0	2.5	2.5	2.0	---	---
5	---	---	6.5	6.0	3.0	3.0	3.0	2.5	2.5	2.0	---	---
6	---	---	6.0	5.5	3.0	2.5	3.0	3.0	3.0	2.5	---	---
7	---	---	5.5	5.5	3.5	3.0	4.0	3.0	3.0	2.0	---	---
8	---	---	5.5	5.0	3.5	3.0	4.5	4.0	2.5	1.5	---	---
9	---	---	5.5	5.0	3.5	3.0	4.5	4.5	2.5	2.0	---	---
10	---	---	5.5	5.0	3.0	3.0	4.5	4.0	2.5	2.0	---	---
11	8.0	7.5	5.5	5.0	3.0	3.0	4.5	4.0	2.5	2.0	---	---
12	8.0	7.5	5.5	5.0	3.0	3.0	4.0	4.0	2.0	1.5	---	---
13	8.0	7.5	5.5	5.5	3.0	2.5	4.0	3.5	2.0	1.5	---	---
14	8.0	7.5	5.5	5.5	3.0	3.0	3.5	3.0	2.0	1.5	---	---
15	7.5	7.0	5.5	5.0	3.0	3.0	3.0	2.5	2.0	1.5	---	---
16	7.5	7.0	6.0	5.5	3.5	3.0	3.0	2.5	2.0	1.5	---	---
17	7.5	7.0	6.0	6.0	3.5	3.0	3.0	2.5	2.5	2.0	---	---
18	7.5	7.0	6.0	5.0	3.5	3.0	2.5	2.5	3.0	2.5	---	---
19	7.5	7.0	5.5	5.0	3.5	3.0	3.0	2.5	2.5	2.0	---	---
20	7.5	7.0	5.5	5.5	3.5	3.0	2.5	2.0	3.0	2.0	---	---
21	7.0	7.0	5.5	5.5	3.5	3.0	2.5	2.0	---	---	---	---
22	7.0	6.5	5.5	5.5	3.5	2.5	2.5	2.0	---	---	---	---
23	6.5	6.5	5.5	5.0	2.5	2.0	2.5	2.0	---	---	---	---
24	6.5	6.0	5.0	4.5	2.0	2.0	2.0	1.5	---	---	---	---
25	6.5	6.0	4.5	4.5	2.0	1.5	2.0	1.5	---	---	---	---
26	6.5	6.0	4.5	4.0	2.0	1.5	2.5	2.0	---	---	---	---
27	6.5	6.0	4.5	3.5	2.0	1.5	2.5	2.0	---	---	---	---
28	6.5	6.0	4.0	3.5	2.0	1.5	2.0	1.5	---	---	---	---
29	6.5	6.0	3.5	3.5	2.0	1.5	2.0	1.5	---	---	---	---
30	7.0	6.5	3.5	3.0	2.0	1.5	2.0	2.0	---	---	---	---
31	6.5	6.5	---	---	2.5	2.0	2.5	2.0	---	---	---	---
MONTH	---	---	7.0	3.0	3.5	1.5	4.5	1.5	---	---	---	---

SPOKANE RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELCIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

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

SPOKANE RIVER BASIN

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

TURBIDITY IN NTU, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	<2.0	<2.0	2.9	<2.0	<2.0	<2.0	<2.0	<2.0	8.3	<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	7.5	<2.0	---	---
4	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.4	<2.0	---	---
5	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	---	---
6	---	---	<2.0	<2.0	2.7	<2.0	2.7	<2.0	<2.0	<2.0	---	---
7	---	---	<2.0	<2.0	2.9	<2.0	170	<2.0	4.0	<2.0	---	---
8	---	---	<2.0	<2.0	<2.0	<2.0	16	<2.0	7.0	<2.0	---	---
9	---	---	<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	620	<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	<2.0	<2.0	<2.0	<2.0	<2.0	2.6	<2.0	2.5	<2.0	---	---
13	<2.0	<2.0	<2.0	<2.0	4.3	<2.0	<2.0	<2.0	<2.0	<2.0	---	---
14	<2.0	<2.0	24	<2.0	20	<2.0	5.2	<2.0	<2.0	<2.0	---	---
15	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	<2.0	<2.0	<2.0	<2.0	---	---
16	<2.0	<2.0	5.6	<2.0	2.7	<2.0	5.1	<2.0	<2.0	<2.0	---	---
17	<2.0	<2.0	<2.0	<2.0	6.1	<2.0	<2.0	<2.0	<2.0	<2.0	---	---
18	<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	130	<2.0	<2.0	<2.0	<2.0	<2.0	---	---
20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.4	<2.0	<2.0	<2.0	---	---
21	<2.0	<2.0	<2.0	<2.0	3.5	<2.0	<2.0	<2.0	---	---	---	---
22	5.9	<2.0	4.2	<2.0	3.4	<2.0	<2.0	<2.0	---	---	---	---
23	3.9	<2.0	<2.0	<2.0	2.6	<2.0	<2.0	<2.0	---	---	---	---
24	<2.0	<2.0	4.9	<2.0	<2.0	<2.0	2.2	<2.0	---	---	---	---
25	<2.0	<2.0	5.0	<2.0	<2.0	<2.0	5.5	<2.0	---	---	---	---
26	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	72	<2.0	---	---	---	---
27	<2.0	<2.0	3.4	<2.0	<2.0	<2.0	<2.0	<2.0	---	---	---	---
28	<2.0	<2.0	3.4	<2.0	3.0	<2.0	<2.0	<2.0	---	---	---	---
29	2.5	<2.0	4.4	<2.0	<2.0	<2.0	<2.0	<2.0	---	---	---	---
30	3.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<2.0	---	---	---	---
31	9.7	<2.0	---	---	<2.0	<2.0	<2.0	<2.0	---	---	---	---
MONTH	---	---	24	2.0	130	2.0	620	2.0	---	---	---	---

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2	---	---	---	---	5.8	<2.0	<2.0	<2.0	2.6	<2.0	<2.0	<2.0
3	---	---	---	---	2.4	<2.0	2.4	<2.0	4.3	<2.0	<2.0	<2.0
4	---	---	---	---	2.7	<2.0	5.4	<2.0	<2.0	<2.0	<2.0	<2.0
5	---	---	---	---	<2.0	<2.0	2.7	<2.0	<2.0	<2.0	<2.0	<2.0
6	---	---	---	---	3.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
7	---	---	---	---	3.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
8	---	---	---	---	4.7	<2.0	<2.0	<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
10	5.3	<2.0	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	15	<2.0	---	---	<2.0	<2.0	<2.0	<2.0	4.0	<2.0	<2.0	<2.0
12	3.1	<2.0	---	---	<2.0	<2.0	3.8	<2.0	<2.0	<2.0	<2.0	<2.0
13	18	<2.0	---	---	<2.0	<2.0	15	<2.0	<2.0	<2.0	<2.0	<2.0
14	450	7.1	---	---	4.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
15	---	---	---	---	4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
16	---	---	---	---	3.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
17	---	---	<2.0	<2.0	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
18	---	---	<2.0	<2.0	2.0	<2.0	---	---	<2.0	<2.0	<2.0	<2.0
19	---	---	21	<2.0	<2.0	<2.0	---	---	<2.0	<2.0	<2.0	<2.0
20	---	---	21	<2.0	<2.0	<2.0	---	---	<2.0	<2.0	<2.0	<2.0
21	---	---	2.5	<2.0	2.7	<2.0	---	---	<2.0	<2.0	<2.0	<2.0
22	---	---	<2.0	<2.0	3.5	<2.0	---	---	<2.0	<2.0	<2.0	<2.0
23	---	---	7.7	<2.0	<2.0	<2.0	---	---	<2.0	<2.0	<2.0	<2.0
24	---	---	<2.0	<2.0	<2.0	<2.0	---	---	<2.0	<2.0	<2.0	<2.0
25	---	---	4.8	<2.0	<2.0	<2.0	---	---	<2.0	<2.0	<2.0	<2.0
26	---	---	3.7	<2.0	<2.0	<2.0	---	---	<2.0	<2.0	<2.0	<2.0
27	---	---	2.9	<2.0	<2.0	<2.0	---	---	<2.0	<2.0	<2.0	<2.0
28	---	---	11	<2.0	<2.0	<2.0	---	---	<2.0	<2.0	<2.0	<2.0
29	---	---	4.3	<2.0	3.9	<2.0	---	---	<2.0	<2.0	<2.0	<2.0
30	---	---	<2.0	<2.0	2.9	<2.0	---	---	<2.0	<2.0	<2.0	<2.0
31	---	---	2.5	<2.0	---	---	<2.0	<2.0	<2.0	<2.0	---	---
MONTH	---	---	---	---	5.8	2.0	---	---	4.3	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 $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.28, T.48 N., R.2 E., Shoshone County, 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 except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 750 ft³/s Apr. 14, 2002; minimum daily, 4.0 ft³/s Sept. 22, 24, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 750 ft³/s Apr. 14; minimum daily, 4.6 ft³/s Oct. 3-7.

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	4.8	16	16	12	26	56	109	227	282	39	11	8.2
2	4.7	10	20	11	24	47	116	230	228	36	11	8.0
3	4.6	8.6	22	12	23	41	107	256	215	33	11	8.0
4	4.6	7.6	20	12	21	39	105	205	209	32	11	7.9
5	4.6	7.1	18	12	21	38	124	166	214	30	12	8.1
6	4.6	6.8	16	13	22	36	193	136	195	28	12	8.2
7	4.6	6.5	14	226	24	33	226	118	147	27	11	8.2
8	5.0	6.1	14	437	28	30	223	102	118	28	11	7.8
9	5.4	6.1	14	301	25	27	190	91	94	24	11	7.5
10	5.2	5.9	14	161	24	27	233	85	83	23	10	7.4
11	6.8	5.9	14	108	25	89	317	84	84	22	10	7.3
12	5.9	5.8	13	96	25	269	337	98	94	22	9.7	7.3
13	5.6	5.9	20	98	25	149	449	167	128	21	9.5	7.4
14	6.7	12	72	85	24	104	e750	258	153	20	9.3	7.3
15	6.2	13	42	67	22	83	403	215	168	19	9.1	7.3
16	5.4	10	34	56	22	71	255	192	162	19	9.0	7.3
17	5.0	13	70	47	24	61	187	196	138	18	8.8	8.1
18	4.9	12	53	40	25	53	152	211	113	18	8.9	8.4
19	5.6	11	36	38	29	51	136	306	98	18	8.7	7.8
20	5.9	9.6	27	36	34	55	135	418	80	17	8.6	7.4
21	5.5	18	23	33	41	50	149	302	75	17	14	7.1
22	6.8	27	20	29	203	50	172	289	80	16	16	7.0
23	13	41	18	25	276	56	165	226	79	15	11	7.0
24	8.3	29	16	30	189	67	144	172	72	15	9.7	7.0
25	6.5	22	15	79	126	67	133	157	64	14	9.1	6.9
26	5.9	18	14	86	97	72	128	197	59	14	8.7	6.9
27	6.2	15	14	57	78	91	127	289	56	14	8.6	6.9
28	13	14	14	43	66	89	124	362	51	14	8.4	6.9
29	8.1	16	13	36	---	82	128	377	50	14	8.2	7.2
30	10	14	12	32	---	80	174	349	43	13	8.4	7.5
31	30	---	12	29	---	88	---	305	---	12	8.3	---
TOTAL	219.4	392.9	720	2347	1569	2151	6191	6786	3632	652	313.0	225.3
MEAN	7.077	13.10	23.23	75.71	56.04	69.39	206.4	218.9	121.1	21.03	10.10	7.510
MAX	30	41	72	437	276	269	750	418	282	39	16	8.4
MIN	4.6	5.8	12	11	21	27	105	84	43	12	8.2	6.9
AC-FT	435	779	1430	4660	3110	4270	12280	13460	7200	1290	621	447

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

MEAN	7.426	15.53	26.12	36.58	43.45	56.74	148.7	134.8	60.31	14.82	7.953	6.489
MAX	8.15	27.2	49.3	75.7	66.5	77.2	206	219	121	21.0	10.1	7.51
(WY)	2000	2000	2000	2002	2000	2000	2002	2002	2002	2002	2002	2002
MIN	7.05	6.35	5.82	6.17	7.00	23.6	43.8	76.6	17.6	8.91	5.63	4.51
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 2000 - 2002
ANNUAL TOTAL	7254.3	25198.6	
ANNUAL MEAN	19.87	69.04	46.48
HIGHEST ANNUAL MEAN			69.0
LOWEST ANNUAL MEAN			17.8
HIGHEST DAILY MEAN	191	May 1	750
LOWEST DAILY MEAN	4.0	Sep 22	4.6
ANNUAL SEVEN-DAY MINIMUM	4.1	Sep 19	4.6
ANNUAL RUNOFF (AC-FT)	14390	49980	33670
10 PERCENT EXCEEDS	49	204	124
50 PERCENT EXCEEDS	9.4	25	17
90 PERCENT EXCEEDS	4.9	6.9	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, 20.0 °C Aug. 1, 2000, Aug. 15, 2001; minimum, 0.0 °C many days during winter months..
- SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 62 microsiemens/cm Oct. 26-27, 2002; 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, 19.5 °C July 24; minimum, 0.0 °C Mar. 7-8.
- SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 62 microsiemens/cm Oct. 26-27; minimum recorded daily mean, 8 microsiemens/cm April 15.
- TURBIDITY: Maximum recorded , >1000 NTU Apr. 14, May 20; minimum recorded, <2 NTU on many days during the year.

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

WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002												
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.5	10.5	8.0	7.5	4.0	3.5	2.0	1.0	3.0	2.0	3.0	1.0
2	13.5	10.5	8.5	7.5	4.0	3.5	2.5	1.5	2.5	1.0	2.5	0.5
3	13.0	10.5	8.0	7.0	4.0	3.5	2.5	2.0	2.5	0.5	3.0	0.5
4	12.0	9.5	7.5	7.0	4.0	3.0	3.0	2.0	2.0	1.0	3.0	1.0
5	11.5	9.0	7.5	6.0	3.5	3.0	3.0	2.0	2.0	0.5	3.0	2.0
6	11.5	8.5	6.5	6.0	3.5	2.5	3.0	2.5	3.0	1.5	2.5	1.0
7	11.0	9.0	6.5	5.0	4.0	3.0	4.0	2.5	3.0	1.5	2.0	0.0
8	10.5	9.5	6.0	5.0	4.0	3.0	4.5	4.0	2.5	1.0	1.5	0.0
9	10.5	9.0	6.0	4.5	4.0	3.0	5.0	4.0	2.5	1.0	3.0	0.5
10	10.5	8.5	5.5	4.5	3.5	2.5	4.5	4.0	2.5	1.0	4.0	2.0
11	10.5	9.0	5.0	4.0	3.5	2.5	4.5	3.5	3.0	1.0	3.0	2.5
12	9.5	9.0	5.5	4.5	3.5	3.0	4.0	4.0	1.5	0.5	4.0	3.0
13	10.5	8.5	6.0	5.0	3.5	3.0	4.0	3.5	2.5	0.5	4.0	3.0
14	10.5	9.0	6.5	5.5	3.5	3.0	3.5	2.5	2.0	0.5	4.0	3.0
15	10.0	8.5	7.0	5.5	3.0	2.0	2.5	2.0	1.5	0.5	4.5	3.0
16	10.0	8.0	7.0	6.5	3.5	2.5	3.0	2.0	2.0	0.5	3.5	2.0
17	9.5	8.0	7.0	6.5	3.5	2.5	2.5	2.0	2.5	1.0	3.5	1.5
18	8.5	7.5	6.5	5.5	3.0	2.5	2.5	1.5	3.0	1.5	2.5	1.5
19	8.5	8.0	6.5	5.5	3.5	2.5	2.5	2.0	3.0	1.5	3.0	1.5
20	9.5	8.0	6.5	6.0	3.5	2.5	2.0	1.5	3.5	1.5	2.5	1.0
21	8.5	8.0	6.5	6.0	3.0	3.0	2.5	1.0	3.0	1.5	3.5	1.0
22	9.0	8.0	6.5	5.5	3.0	1.5	2.5	1.0	3.5	2.5	4.5	2.0
23	8.0	7.5	6.0	5.0	1.5	1.0	2.0	1.5	4.0	3.0	5.0	3.0
24	8.0	7.0	5.0	4.5	1.0	1.0	2.5	1.5	3.5	2.0	4.5	3.0
25	8.0	7.5	5.0	4.5	1.5	1.0	2.5	2.0	3.0	1.5	4.5	3.0
26	8.5	7.0	5.0	4.5	1.0	1.0	3.0	2.0	2.0	1.0	5.5	3.0
27	8.5	7.0	5.0	3.5	1.0	1.0	3.0	1.5	3.0	1.5	5.0	3.5
28	8.5	7.0	4.0	3.0	1.5	1.0	1.5	0.5	3.5	2.0	5.0	3.5
29	8.5	7.0	4.5	3.5	2.0	1.0	2.0	1.0	---	---	5.5	3.0
30	8.5	8.0	4.0	3.5	2.0	1.0	2.0	1.5	---	---	5.0	3.5
31	8.0	7.5	---	---	2.5	1.5	3.0	1.5	---	---	6.0	3.5
MONTH	13.5	7.0	8.5	3.0	4.0	1.0	5.0	0.5	4.0	0.5	6.0	0.0

SPOKANE RIVER BASIN

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

WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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

SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

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

SPOKANE RIVER BASIN

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

TURBIDITY IN (NTU), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	<2.0	<2.0	3.6	<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	13	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
3	<2.0	<2.0	<2.0	<2.0	17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4	<2.0	<2.0	<2.0	<2.0	11	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	<2.0	<2.0	<2.0	<2.0	26	<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	330	<2.0	<2.0	<2.0	<2.0	<2.0
8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	240	39	4.4	<2.0	<2.0	<2.0
9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	50	2.8	<2.0	<2.0	<2.0	<2.0
10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	57	<2.0	<2.0	<2.0	4.1	<2.0
11	<2.0	<2.0	<2.0	<2.0	3.9	<2.0	3.4	<2.0	<2.0	<2.0	19	<2.0
12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.6	<2.0	<2.0	<2.0	19	2.6
13	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.3	<2.0	<2.0	<2.0	2.9	<2.0
14	<2.0	<2.0	4.6	<2.0	9.2	<2.0	<2.0	<2.0	2.9	<2.0	2.6	<2.0
15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.9	<2.0	2.3	<2.0
16	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.5	<2.0	<2.0	<2.0	<2.0	<2.0
17	<2.0	<2.0	3.6	<2.0	4.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
18	<2.0	<2.0	<2.0	<2.0	2.3	<2.0	2.7	<2.0	3.0	<2.0	<2.0	<2.0
19	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.0	<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	8.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
22	<2.0	<2.0	28	<2.0	<2.0	<2.0	<2.0	<2.0	19	<2.0	2.4	<2.0
23	<2.0	<2.0	48	<2.0	<2.0	<2.0	<2.0	<2.0	9.3	2.8	<2.0	<2.0
24	4.3	<2.0	24	<2.0	<2.0	<2.0	<2.0	<2.0	5.7	<2.0	<2.0	<2.0
25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.9	<2.0	2.7	<2.0	<2.0	<2.0
26	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5.9	<2.0	3.4	<2.0	<2.0	<2.0
27	32	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	12	<2.0	<2.0	<2.0
28	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	12	<2.0	2.5	<2.0
29	<2.0	<2.0	4.4	<2.0	<2.0	<2.0	<2.0	<2.0	---	---	<2.0	<2.0
30	<2.0	<2.0	4.4	<2.0	<2.0	<2.0	<2.0	<2.0	---	---	2.8	<2.0
31	12	<2.0	---	---	<2.0	<2.0	<2.0	<2.0	---	---	3.5	<2.0
MONTH	32	2.0	48	2.0	26	2.0	330	2.0	19	2.0	19	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	13	5.6	4.2	<2.0	190	<2.0	<2.0	<2.0	<2.0	<2.0
2	<2.0	<2.0	7.8	4.8	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
3	<2.0	<2.0	13	4.7	4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4	<2.0	<2.0	5.9	<2.0	3.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	<2.0	<2.0	4.2	<2.0	31	<2.0	2.9	<2.0	<2.0	<2.0	<2.0	<2.0
6	5.6	<2.0	<2.0	<2.0	4.0	<2.0	7.6	<2.0	<2.0	<2.0	<2.0	<2.0
7	3.9	2.3	<2.0	<2.0	4.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
8	3.9	<2.0	190	<2.0	3.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9	<2.0	<2.0	<2.0	<2.0	5.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
10	10	<2.0	3.7	<2.0	3.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	17	7.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
12	20	7.0	2.3	<2.0	5.0	<2.0	3.0	<2.0	<2.0	<2.0	<2.0	<2.0
13	610	18	6.7	<2.0	5.0	<2.0	4.0	<2.0	<2.0	<2.0	<2.0	<2.0
14	>1000	420	11	3.7	15	<2.0	2.8	<2.0	<2.0	<2.0	270	<2.0
15	680	150	4.7	<2.0	12	<2.0	3.9	<2.0	<2.0	<2.0	<2.0	<2.0
16	150	18	3.0	<2.0	3.4	<2.0	3.6	<2.0	<2.0	<2.0	<2.0	<2.0
17	18	4.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
18	6.3	<2.0	5.4	<2.0	4.2	<2.0	2.9	<2.0	<2.0	<2.0	<2.0	<2.0
19	8.9	<2.0	140	3.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
20	2.6	<2.0	>1000	29	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
21	7.4	<2.0	30	7.1	2.1	<2.0	3.7	<2.0	<2.0	<2.0	<2.0	<2.0
22	3.6	<2.0	9.8	3.8	<2.0	<2.0	5.8	<2.0	<2.0	<2.0	<2.0	<2.0
23	3.4	<2.0	14	<2.0	4.8	<2.0	3.3	<2.0	<2.0	<2.0	<2.0	<2.0
24	<2.0	<2.0	2.6	<2.0	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
25	3.1	<2.0	<2.0	<2.0	<2.0	<2.0	2.4	<2.0	<2.0	<2.0	<2.0	<2.0
26	2.0	<2.0	7.5	<2.0	4.5	<2.0	3.0	<2.0	<2.0	<2.0	<2.0	<2.0
27	12	<2.0	10	2.9	2.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
28	<2.0	<2.0	20	6.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
29	3.2	<2.0	24	9.5	<2.0	<2.0	4.3	<2.0	<2.0	<2.0	<2.0	<2.0
30	6.5	<2.0	10	3.9	2.6	<2.0	2.2	<2.0	<2.0	<2.0	<2.0	<2.0
31	---	---	6.5	2.8	---	---	<2.0	<2.0	<2.0	<2.0	---	---
MONTH	1000	2.0	1000	2.0	31	2.0	190	2.0	2.0	2.0	270	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

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; minimum recorded, 1.5 °C on Feb, 19, 2000, Feb. 25-26, 2002.
 SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 50 microsiemens/cm Oct. 31, 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, 15.0 °C July 17, 22, 24, Aug. 13-14, 22-24, 26-29; minimum recorded, 1.5°C on Feb. 25-26.
 SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 50 microsiemens/cm Oct. 31; minimum recorded daily mean, 15 microsiemens/cm May 29-30.
 TURBIDITY: Maximum recorded, >1000 NTU April 14; minimum recorded, <2 NTU on many days during the year.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM DIS-SOLVED (MG/L AS MG) (00925)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)
OCT 25...	1030	18	43	6.7	4.0	10.2	16	4.26	1.41	--	--	--	--
JAN 08...	1400	1300	25	6.7	8.0	4.4	8	2.08	.714	--	--	--	--
FEB 04...	1030	67	29	6.9	-1.5	3.5	10	2.66	.933	--	--	--	--
MAR 12...	1050	920	24	6.8	7.0	3.4	8	2.07	.728	--	--	--	--
APR 15...	1630	1230	19	7.0	6.5	4.9	6	1.60	.538	<.015	.18	.048	.005
MAY 20...	1545	1240	15	6.9	15.0	6.0	5	1.41	.432	<.015	E.08	.032	E.003
JUN 10...	1710	259	21	7.1	17.5	7.8	4	1.14	.348	--	--	--	--
JUL 08...	1705	62	28	7.2	19.5	11.7	9	2.28	.756	--	--	--	--
AUG 28...	1400	21	33	7.0	33.0	15.1	12	3.05	1.04	--	--	--	--

Date	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDIMENT, PENDED (MG/L) (80154)
OCT 25...	--	.45	.42	<10	<10	.22	<1	<1	.2	124	121	--
JAN 08...	--	.43	.68	1210	23	1.16	48	57	2.7	139	215	--
FEB 04...	--	.43	.44	M	<10	.21	<1	<1	.2	125	116	--
MAR 12...	--	.39	.41	200	15	.69	6	7	1.1	126	133	--
APR 15...	.058	.31	.74	2410	10	1.29	118	118	4.4	88	230	166
MAY 20...	.032	.15	.28	1040	E5	.59	35	52	1.7	41	83	206
JUN 10...	--	.21	.21	20	<10	.61	1	1	.4	59	61	--
JUL 08...	--	.35	.35	E10	<10	.22	<1	<1	.5	90	88	--
AUG 28...	--	.39	.38	<10	<10	.31	<1	<1	.3	104	102	--

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

SPOKANE RIVER BASIN

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

WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	10.0	10.0	9.5	7.5	7.0	6.0	4.5	4.0	3.5	4.0	2.0
2	13.5	10.0	10.0	9.5	8.0	7.0	5.5	4.5	5.0	3.0	4.0	1.5
3	13.0	9.5	11.0	9.5	7.5	7.0	5.5	5.5	4.5	2.5	4.5	1.5
4	12.5	9.5	11.0	9.5	7.5	6.5	6.0	5.5	4.5	3.0	3.5	2.0
5	12.5	9.0	10.0	9.0	7.0	6.5	6.0	5.0	4.5	2.5	3.5	2.5
6	12.5	9.0	9.5	9.0	7.0	6.5	6.0	5.5	4.5	3.5	3.0	2.0
7	11.5	9.5	10.5	8.5	7.5	6.5	5.5	3.0	4.0	2.5	3.5	1.5
8	10.5	10.0	10.0	8.5	7.5	6.5	4.5	4.0	4.0	2.5	3.0	1.5
9	11.0	9.5	10.0	8.5	7.5	6.5	5.0	4.0	4.5	2.5	4.5	1.5
10	11.0	9.5	10.0	8.5	7.0	6.5	4.5	4.0	4.5	2.5	4.5	2.5
11	12.0	9.5	10.0	8.5	7.0	6.5	4.5	4.0	4.5	2.5	3.5	3.0
12	10.5	9.5	10.0	8.5	7.0	6.5	4.5	4.0	4.5	2.0	4.0	3.0
13	11.5	9.5	9.5	9.0	7.0	6.0	4.5	4.0	4.0	2.0	4.0	3.0
14	11.5	10.0	9.5	9.0	6.0	4.0	4.0	3.5	4.5	2.0	4.0	3.0
15	12.0	10.0	10.5	8.5	5.5	4.5	3.5	3.0	4.5	2.0	4.0	3.0
16	12.0	9.5	10.0	9.0	6.0	5.0	4.0	3.0	4.5	2.0	3.5	2.0
17	10.5	9.5	9.5	9.0	5.5	4.0	3.5	3.5	5.0	2.5	3.5	2.0
18	10.5	9.0	10.0	8.5	5.0	4.0	4.0	3.0	4.0	3.0	3.0	2.0
19	10.5	10.0	9.5	8.5	5.5	4.5	3.5	3.5	4.0	3.0	3.0	2.0
20	12.0	10.0	10.0	8.5	6.0	5.0	4.0	3.0	4.5	2.5	2.5	1.5
21	10.5	10.0	9.0	8.5	5.5	5.5	4.0	3.0	3.5	2.5	4.0	1.5
22	11.0	10.0	9.0	7.5	6.0	5.0	4.0	2.5	3.5	3.0	5.0	2.5
23	10.5	9.5	7.5	7.0	5.5	4.5	4.0	3.0	4.0	3.0	5.5	3.0
24	10.5	9.5	7.5	6.5	5.5	4.5	4.0	3.5	3.5	2.0	4.5	3.0
25	10.5	10.0	7.5	7.0	5.5	4.0	3.5	2.5	4.0	1.5	4.0	3.0
26	11.5	9.5	8.0	7.5	5.0	4.0	3.5	2.5	2.0	1.5	5.5	3.0
27	11.0	10.0	8.0	7.0	5.5	4.0	4.0	2.5	3.0	2.0	5.0	3.0
28	11.5	10.0	7.5	7.0	5.5	4.5	3.5	2.0	4.0	2.5	5.5	3.0
29	11.0	10.0	8.0	7.5	6.0	4.5	3.5	2.5	---	---	5.5	3.0
30	10.5	10.5	8.0	7.5	5.5	4.5	3.5	3.0	---	---	5.0	3.0
31	10.5	9.0	---	---	6.0	5.0	4.0	3.0	---	---	6.0	3.0
MONTH	13.5	9.0	11.0	6.5	8.0	4.0	6.0	2.0	5.0	1.5	6.0	1.5
DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	3.0	8.0	4.5	7.0	5.5	11.5	8.5	14.5	10.0	13.5	11.5
2	5.5	3.0	8.0	4.5	9.0	5.5	13.0	8.0	14.5	10.5	14.5	11.0
3	6.0	2.5	7.5	5.0	9.0	5.5	12.5	8.5	14.0	10.0	13.5	11.0
4	6.5	3.0	6.0	4.5	8.5	5.5	12.0	8.5	13.0	11.0	14.0	11.5
5	6.0	3.0	6.0	4.5	8.5	6.0	13.0	8.5	14.0	10.5	12.5	11.5
6	5.0	4.0	6.5	4.0	8.0	6.0	13.5	8.5	13.0	11.0	14.0	11.0
7	5.5	4.0	5.5	4.0	7.5	5.0	11.5	9.0	14.5	10.5	13.0	11.0
8	6.5	3.5	7.0	4.0	6.5	5.5	11.5	9.5	14.0	10.5	13.0	10.5
9	5.5	4.0	7.0	3.5	7.5	5.5	13.5	9.0	14.5	10.5	14.0	11.0
10	5.5	4.5	8.5	4.0	8.5	6.0	14.0	9.0	14.0	11.0	14.5	10.5
11	6.0	4.5	9.0	4.5	9.5	6.0	14.5	9.5	14.5	11.0	14.5	11.0
12	6.0	4.5	9.0	4.5	10.5	6.0	14.5	10.0	14.5	10.5	14.5	11.0
13	6.5	5.0	9.0	5.0	11.0	6.5	14.5	10.0	15.0	11.0	14.5	11.0
14	5.0	4.5	7.0	5.0	11.0	6.5	14.5	10.5	15.0	11.0	14.5	11.0
15	5.5	4.5	7.0	4.5	11.0	6.5	14.5	10.0	14.5	10.5	13.5	11.0
16	6.0	4.5	8.5	4.5	11.0	7.0	14.5	10.0	14.5	11.0	12.5	11.0
17	6.0	4.0	7.0	5.0	9.5	7.0	15.0	10.5	14.5	10.5	12.0	11.0
18	7.0	4.5	8.0	5.0	8.5	7.0	14.5	10.5	14.5	10.5	13.5	11.0
19	6.5	4.0	9.0	5.5	9.0	7.0	13.0	10.5	14.0	10.5	14.0	10.5
20	7.0	4.0	6.0	5.5	11.5	6.5	14.5	10.5	14.0	11.0	13.5	10.5
21	7.0	4.5	6.0	5.5	12.0	7.0	14.5	10.0	14.5	11.5	13.5	10.0
22	6.0	4.5	5.5	5.0	11.0	7.5	15.0	10.5	15.0	11.5	13.5	10.0
23	6.0	4.0	6.5	5.0	11.5	8.0	13.5	10.5	15.0	11.5	13.5	10.0
24	7.0	3.5	8.0	4.5	12.5	8.0	15.0	10.5	15.0	11.0	13.5	10.5
25	7.0	4.5	7.5	5.0	12.5	8.0	14.0	11.0	14.5	11.0	13.5	10.5
26	7.0	4.0	8.0	6.0	13.5	8.5	14.5	11.0	15.0	11.5	12.0	10.5
27	6.5	4.5	8.5	5.5	14.0	9.0	14.5	11.0	15.0	11.5	12.5	10.5
28	6.5	4.5	8.5	6.0	13.0	9.5	13.5	10.5	15.0	11.5	13.5	10.0
29	8.5	4.0	7.5	6.0	12.5	9.0	13.5	11.0	15.0	11.0	11.5	10.5
30	8.0	5.0	8.0	5.5	11.0	8.5	13.5	11.0	14.5	11.5	11.5	10.5
31	---	---	9.0	5.5	---	---	14.0	10.5	14.5	11.0	---	---
MONTH	8.5	2.5	9.0	3.5	14.0	5.0	15.0	8.0	15.0	10.0	14.5	10.0

SPOKANE RIVER BASIN

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

SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	48	37	37	32	29	30	19	16	23	30	34
2	41	45	38	37	31	30	29	19	16	23	30	35
3	41	44	39	37	32	30	29	18	16	24	31	35
4	41	44	39	37	32	30	29	18	16	24	31	35
5	41	43	38	37	32	30	28	19	16	24	31	35
6	41	43	38	37	32	30	27	20	16	25	31	35
7	41	43	38	31	32	30	25	20	17	25	31	35
8	42	43	38	25	33	30	24	21	18	26	31	35
9	42	42	38	26	33	30	25	21	18	26	31	35
10	42	42	39	27	33	30	24	22	19	26	32	35
11	42	42	39	28	33	30	22	22	19	27	32	35
12	43	41	38	28	33	25	22	22	19	27	32	36
13	43	41	39	27	33	26	20	20	18	27	32	36
14	43	42	38	28	33	27	18	18	17	27	32	36
15	43	43	38	29	33	27	19	18	17	28	32	36
16	43	42	39	29	33	28	21	19	17	28	32	36
17	43	41	37	29	33	28	22	19	17	28	32	36
18	44	40	38	30	33	28	23	18	18	28	32	36
19	43	40	38	31	33	28	23	17	18	29	32	36
20	44	39	38	31	34	28	23	16	19	29	32	36
21	44	40	38	31	33	29	23	16	19	29	33	37
22	44	37	37	31	30	29	22	16	19	29	35	37
23	44	33	37	32	28	29	22	17	19	29	34	37
24	45	34	37	32	29	30	22	18	20	29	34	37
25	45	35	37	31	29	30	22	18	20	30	34	37
26	45	36	37	32	29	30	22	18	20	30	34	37
27	45	36	37	33	29	30	22	17	21	30	34	37
28	46	36	37	33	29	30	22	16	21	30	34	37
29	46	36	37	32	---	30	22	15	22	30	34	37
30	46	36	37	33	---	30	21	15	22	30	34	37
31	50	---	37	33	---	30	---	16	---	30	34	---
MEAN	43	40	38	31	32	29	23	18	18	27	32	36

TURBIDITY IN (NTU), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	<2.0	<2.0	5.6	<2.0
2	<2.0	<2.0	14	<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	5.5	<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	910	<2.0	<2.0	<2.0	<2.0	<2.0
8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	140	40	<2.0	<2.0	<2.0	<2.0
9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	40	5.4	<2.0	<2.0	<2.0	<2.0
10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	8.7	2.2	<2.0	<2.0	<2.0	<2.0
11	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	13	<2.0	<2.0	<2.0	37	<2.0
12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.8	<2.0	<2.0	<2.0	29	3.5
13	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	3.4	<2.0	<2.0	<2.0	4.5	<2.0
14	<2.0	<2.0	<2.0	<2.0	12	<2.0	2.2	<2.0	<2.0	<2.0	2.2	<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	3.5	<2.0
17	<2.0	<2.0	<2.0	<2.0	4.8	<2.0	<2.0	<2.0	<2.0	<2.0	2.2	<2.0
18	<2.0	<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	<2.0	<2.0	3.5	<2.0	<2.0	<2.0	<2.0	<2.0	54	<2.0	<2.0	<2.0
23	<2.0	<2.0	20	<2.0	<2.0	<2.0	<2.0	<2.0	180	3.3	2.0	<2.0
24	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.1	<2.0	<2.0	<2.0
25	<2.0	<2.0	2.8	<2.0	<2.0	<2.0	15	<2.0	4.5	<2.0	<2.0	<2.0
26	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.6	<2.0	<2.0	<2.0	11	<2.0
27	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.6	<2.0
28	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.4	<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	<2.0	<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	---	---	<2.0	<2.0
MONTH	2.0	2.0	20	2.0	12	2.0	910	2.0	180	2.0	37	2.0

SPOKANE RIVER BASIN

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

TURBIDITY IN (NTU), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	<2.0	<2.0	11	4.6	9.3	3.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2	<2.0	<2.0	11	4.0	5.7	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
3	<2.0	<2.0	15	5.3	6.7	<2.0	3.2	<2.0	<2.0	<2.0	24	<2.0
4	<2.0	<2.0	7.2	<2.0	6.6	<2.0	4.4	<2.0	<2.0	<2.0	<2.0	<2.0
5	<2.0	<2.0	2.1	<2.0	2.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
6	3.3	<2.0	7.5	<2.0	5.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
7	4.5	<2.0	<2.0	<2.0	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
8	4.0	<2.0	<2.0	<2.0	2.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9	5.9	<2.0	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
10	8.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	29	5.8	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	<2.0	<2.0	2.2	<2.0
12	72	5.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
13	320	17	5.7	<2.0	5.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
14	>1000	320	13	4.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
15	560	110	4.4	<2.0	5.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
16	110	21	<2.0	<2.0	2.9	<2.0	<2.0	<2.0	4.6	<2.0	<2.0	<2.0
17	23	5.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
18	6.9	2.7	3.0	<2.0	3.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
19	4.8	<2.0	94	2.3	4.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
20	2.7	<2.0	170	61	5.1	<2.0	<2.0	<2.0	7.8	<2.0	<2.0	<2.0
21	2.9	<2.0	65	16	<2.0	<2.0	<2.0	<2.0	10	<2.0	<2.0	<2.0
22	5.8	<2.0	21	9.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
23	2.5	<2.0	19	4.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
24	<2.0	<2.0	5.8	<2.0	<2.0	<2.0	2.4	<2.0	<2.0	<2.0	<2.0	<2.0
25	<2.0	<2.0	5.1	<2.0	11	<2.0	5.7	<2.0	<2.0	<2.0	<2.0	<2.0
26	<2.0	<2.0	6.5	<2.0	<2.0	<2.0	7.3	<2.0	<2.0	<2.0	<2.0	<2.0
27	<2.0	<2.0	18	5.7	<2.0	<2.0	2.1	<2.0	<2.0	<2.0	<2.0	<2.0
28	<2.0	<2.0	67	18	3.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
29	<2.0	<2.0	56	28	3.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
30	12	<2.0	680	14	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
31	---	---	16	7.1	---	---	<2.0	<2.0	<2.0	<2.0	---	---
MONTH	1000	2.0	680	2.0	11	2.0	7.3	2.0	10	2.0	24	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

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, 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 mi².

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.--Records good. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft³/s Feb. 9, 1996, gage height, 17.43 ft, from rating curve extended above 6,000 ft³/s on basis of contracted opening and flow-over-road measurement of peak flow; minimum, 45 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 8	1845	2,450	10.60	May 3	0945	2,030	10.40
Apr. 14	1315	*8,010	*15.06	May 20	0700	4,170	12.33
				May 29	0345	4,150	12.31

Minimum, 69 ft³/s Oct. 3, 4, 6, 7, 8, gage height, 7.12 ft.

DAY	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	239	221	156	295	501	797	1530	3300	778	208	146
2	75	199	239	152	279	446	857	1710	2810	693	202	145
3	72	179	255	149	266	409	823	1960	2680	639	200	142
4	71	167	249	146	256	389	793	1730	2600	603	198	139
5	72	156	231	147	248	380	862	1440	2660	566	203	138
6	72	149	221	153	247	384	1160	1170	2570	533	205	139
7	71	139	207	720	260	362	1460	971	2100	512	198	145
8	78	130	191	2190	298	332	1590	815	1730	534	191	139
9	84	127	192	1770	280	318	1440	706	1440	504	187	136
10	78	120	185	1070	273	313	1550	634	1280	468	180	133
11	100	115	176	771	281	501	2160	598	1190	442	176	129
12	97	112	169	691	268	1590	2320	646	1220	423	174	127
13	97	109	185	722	265	1110	3070	1020	1450	407	172	126
14	108	120	462	639	260	841	6390	1930	1820	388	168	125
15	106	126	385	555	245	707	4750	1690	2120	369	166	120
16	92	127	331	486	241	634	2840	1420	2230	353	163	120
17	e85	156	514	439	245	566	1920	1430	2060	339	160	134
18	e80	167	463	398	256	517	1450	1530	1800	327	157	132
19	e90	165	374	377	271	496	1210	2210	1600	315	156	125
20	100	160	306	364	306	567	1110	3890	1350	302	154	121
21	95	195	269	349	330	506	1140	3470	1250	284	197	119
22	100	237	241	328	1080	497	1280	3650	1300	272	206	117
23	145	372	221	302	1710	530	1280	3250	1380	266	177	117
24	132	334	193	303	1340	593	1130	2410	1300	259	170	117
25	116	274	172	524	937	585	1010	2000	1180	250	166	117
26	108	237	161	615	741	596	977	2110	1110	242	161	116
27	109	212	162	479	635	693	956	2800	1070	237	155	114
28	177	205	172	401	569	717	910	3670	1010	230	154	114
29	138	216	166	359	---	694	898	3930	1020	225	150	115
30	150	208	159	328	---	673	1160	3890	896	220	150	117
31	262	---	159	309	---	693	---	3540	---	212	148	---
TOTAL	3238	5452	7631	16392	12682	18140	49293	63750	51526	12192	5452	3824
MEAN	104.5	181.7	246.2	528.8	452.9	585.2	1643	2056	1718	393.3	175.9	127.5
MAX	262	372	514	2190	1710	1590	6390	3930	3300	778	208	146
MIN	71	109	159	146	241	313	793	598	896	212	148	114
AC-FT	6420	10810	15140	32510	25150	35980	97770	126400	102200	24180	10810	7580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2002, BY WATER YEAR (WY)												
MEAN	123.5	289.8	380.9	414.5	596.8	688.9	1241	1368	808.4	277.4	147.7	112.8
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 2001 CALENDAR YEAR			FOR 2002 WATER YEAR			WATER YEARS 1987 - 2002		
ANNUAL TOTAL	91723			249572					
ANNUAL MEAN	251.3			683.8			536.4		
HIGHEST ANNUAL MEAN							846		
LOWEST ANNUAL MEAN							232		
HIGHEST DAILY MEAN	1540			6390			9000		
LOWEST DAILY MEAN	65			71			58		
ANNUAL SEVEN-DAY MINIMUM	70			73			67		
ANNUAL RUNOFF (AC-FT)	181900			495000			388600		
10 PERCENT EXCEEDS	524			1750			1310		
50 PERCENT EXCEEDS	152			303			272		
90 PERCENT EXCEEDS	81			117			98		

e Estimated

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 PERIOD.--

WATER TEMPERATURE: Maximum, 20.5 °C July 24; minimum, 0.4 °C Mar. 8.

SPECIFIC CONDUCTANCE: Maximum daily mean, 386 microsiemens/cm Oct. 2; minimum daily mean, 48 microsiemens/cm May 20.

TURBIDITY: Maximum recorded >1,000 NTU on many days; 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 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER FIELD (STANDARD) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, SATURATION (PER-CENT) (00301)	HARDNESS TOTAL (MG/L AS CALCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM DIS-SOLVED (MG/L AS MG) (00925)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	
Date		NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CADMIUM WATER DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
OCT	24...													
	1315	132	265	7.3	6.0	7.1	--	--	110	27.3	9.58	--	.41	
JAN	08...													
	1300	2190	62	6.9	8.0	4.3	--	--	23	5.96	1.88	.019	.37	
FEB	05...													
	1330	247	172	7.1	6.0	4.0	--	--	65	16.9	5.59	.125	.16	
APR	02...													
	0945	867	105	6.8	3.5	3.2	12.5	100	--	--	--	.028	E.09	
	15...													
	1345	4650	66	7.3	11.0	5.1	--	--	24	6.31	2.01	E.008	.28	
	16...													
	1645	2560	82	7.4	9.0	6.5	--	--	30	7.84	2.56	E.012	.14	
MAY	01...													
	1030	1540	75	6.9	10.0	5.3	11.8	101	--	--	--	<.015	<.10	
	20...													
	1735	3880	41	7.2	12.5	6.8	--	--	17	4.59	1.34	<.015	.23	
JUN	11...													
	1600	1180	88	7.0	23.5	10.7	10.3	100	35	9.55	2.60	.019	E.08	
JUL	10...													
	1525	463	124	7.2	37.0	17.3	--	--	45	12.1	3.63	.065	.11	
AUG	28...													
	1215	153	198	7.1	29.0	16.0	--	--	80	21.0	6.74	.174	.23	
OCT	24...													
	--	.012	.031	8.87	9.54	340	66	3.60	21	1580	1650	1440	1450	
JAN	08...													
	.127	.006	.108	2.23	6.04	2600	15	1.56	250	386	39.9	347	677	
FEB	05...													
	.251	.014	.025	8.09	8.23	140	77	3.57	8	279	295	1340	1190	
APR	02...													
	.138	--	.020	--	--	--	--	--	--	--	--	--	--	
	.083	.005	.130	2.22	5.11	4350	14	2.80	576	470	42.5	372	774	
	.094	.007	.045	3.30	4.29	1600	11	2.54	209	225	65.9	540	677	
MAY	01...													
	.051	--	.016	--	--	--	--	--	--	--	--	--	--	
	.038	.005	.147	1.48	3.78	3610	17	3.54	483	416	27.8	241	511	
JUN	11...													
	.026	.008	.018	2.61	2.82	410	36	6.07	48	109	74.3	389	415	
JUL	10...													
	.018	.016	.024	4.06	4.26	150	66	9.36	18	143	142	608	606	
AUG	28...													
	.168	.025	.045	8.34	8.61	230	68	5.52	20	294	288	1240	1270	

< Less than
E Estimated value

SPOKANE RIVER BASIN

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

WATER TEMPERATURE, DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.9	10.7	9.0	7.9	6.0	5.3	4.1	2.5	4.2	3.1	5.6	2.2
2	15.2	11.0	9.4	8.5	6.4	5.5	4.2	2.5	5.6	3.1	5.2	0.9
3	14.6	10.0	10.7	8.5	5.9	4.8	4.8	4.2	3.3	1.4	5.5	1.3
4	13.3	9.1	10.0	7.7	5.3	4.9	5.6	4.4	5.3	3.0	4.1	2.1
5	12.9	7.8	8.7	7.3	5.0	4.7	5.3	4.4	4.7	1.9	4.8	3.1
6	12.6	8.0	7.3	6.7	4.7	4.2	5.6	4.8	4.6	2.9	4.0	1.0
7	11.5	8.5	8.6	6.3	6.3	4.4	5.4	3.6	4.8	3.8	3.8	0.8
8	10.8	9.3	7.8	5.8	5.8	4.6	4.7	3.8	4.0	2.7	2.1	0.4
9	11.1	8.6	7.8	5.2	5.9	4.9	5.0	4.3	5.6	3.0	5.0	0.8
10	10.8	8.7	7.7	5.0	5.2	4.5	4.6	3.9	5.0	2.0	6.4	3.0
11	11.7	9.2	7.8	5.6	5.3	4.3	4.7	4.1	5.4	2.7	4.5	3.5
12	9.2	7.9	8.3	5.7	5.1	4.5	4.7	4.3	4.6	1.2	4.4	3.0
13	11.4	8.0	7.7	6.8	5.4	4.4	4.7	3.8	3.8	1.1	5.0	3.3
14	11.5	9.3	9.0	7.7	5.3	4.0	4.3	3.2	4.7	1.2	4.4	3.3
15	11.5	8.1	9.2	7.5	4.4	3.1	3.2	2.6	4.5	1.0	5.1	3.3
16	11.8	8.3	9.7	8.7	5.2	4.0	3.7	2.5	5.3	1.1	4.4	2.6
17	---	---	9.6	8.7	5.2	3.6	3.3	2.7	6.2	2.6	4.8	1.7
18	---	---	9.3	7.3	4.0	2.8	3.4	2.6	5.3	3.7	3.4	2.1
19	---	---	7.9	6.6	4.6	3.8	3.3	2.7	4.5	3.3	3.9	2.2
20	10.9	8.1	9.4	7.7	5.3	3.6	3.5	2.6	5.7	3.0	2.8	0.9
21	9.3	8.2	8.5	7.6	4.8	4.4	3.6	2.0	4.6	2.8	4.7	0.6
22	9.7	8.5	7.9	7.3	5.3	3.3	3.4	1.8	4.6	3.5	6.4	1.8
23	8.9	7.0	7.6	6.7	3.7	2.2	3.2	2.4	4.3	3.1	7.9	3.5
24	8.0	6.7	6.9	5.8	3.2	1.8	3.9	2.6	3.9	1.7	6.0	4.0
25	8.3	7.2	6.6	5.8	2.8	1.6	3.8	2.9	4.6	1.1	5.3	4.1
26	9.8	7.0	6.8	5.9	2.6	1.5	3.7	2.4	2.2	0.7	7.3	3.9
27	9.1	8.1	6.5	5.3	2.8	1.5	3.6	2.0	3.7	1.7	6.5	3.8
28	10.3	8.1	5.3	4.4	3.3	1.9	3.2	1.0	5.4	2.3	7.2	4.0
29	9.6	7.7	5.9	4.5	3.6	2.3	2.5	1.6	---	---	6.9	3.3
30	9.7	9.2	5.8	5.3	3.4	1.8	2.8	1.8	---	---	7.1	3.9
31	9.6	8.0	---	---	4.5	3.3	3.9	2.2	---	---	7.7	3.6
MONTH	---	---	10.7	4.4	6.4	1.5	5.6	1.0	6.2	0.7	7.9	0.4

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.7	3.9	9.8	4.6	7.7	6.0	13.0	8.6	18.5	11.3	16.0	13.5
2	7.3	2.5	9.1	4.8	10.9	6.0	15.1	8.1	17.9	12.1	18.5	12.3
3	8.2	2.8	8.2	5.3	11.2	5.9	14.2	9.2	17.1	11.2	17.0	13.1
4	8.8	3.2	6.6	4.6	10.9	6.0	13.6	9.7	15.2	12.8	18.0	13.0
5	7.5	3.6	6.4	4.7	9.7	6.6	15.2	8.8	17.0	11.7	15.6	13.3
6	5.9	4.9	7.1	4.2	9.1	6.1	16.5	9.5	16.7	12.5	15.9	12.6
7	6.8	4.8	5.9	4.1	8.1	5.3	14.7	10.8	17.9	11.5	16.2	13.0
8	8.2	4.0	9.2	4.1	6.5	5.6	14.2	11.7	17.6	11.5	14.9	10.8
9	6.4	4.2	8.0	4.0	7.8	5.7	17.1	10.0	18.7	11.9	16.9	10.7
10	6.8	5.1	10.1	4.2	9.1	6.4	18.6	10.8	18.3	12.6	17.7	11.3
11	7.1	4.8	11.2	4.6	11.1	6.0	19.6	12.3	18.5	12.9	18.0	11.9
12	6.8	5.1	11.2	5.1	11.8	6.8	19.9	13.2	18.6	11.7	17.8	11.9
13	7.7	5.1	10.8	5.4	12.9	7.1	19.7	13.5	19.4	12.5	17.6	12.0
14	5.7	4.6	7.7	5.8	12.8	6.9	19.6	14.6	19.3	13.1	17.3	11.7
15	5.8	4.4	8.6	4.6	12.8	7.0	19.4	13.1	18.8	12.3	15.7	12.4
16	6.6	4.5	10.1	5.1	12.1	7.1	19.2	13.1	18.5	12.4	14.2	12.1
17	7.3	4.5	8.1	5.4	10.5	6.9	19.9	13.7	18.4	11.7	13.6	12.5
18	8.4	4.7	9.8	5.2	8.5	7.4	19.7	14.2	18.5	12.1	15.0	11.8
19	8.2	4.1	10.9	5.9	9.7	6.8	17.9	14.2	17.7	11.9	16.0	10.8
20	8.7	4.1	7.0	5.9	12.7	6.4	19.5	12.9	17.8	12.5	15.4	11.5
21	8.6	5.1	6.4	5.7	13.7	7.3	19.4	12.9	18.5	13.7	14.4	9.3
22	7.1	5.1	6.1	5.4	13.0	8.2	20.4	13.3	19.0	12.9	14.6	9.2
23	6.2	4.4	7.6	5.0	13.3	8.2	18.0	14.1	19.1	12.8	14.8	9.7
24	8.5	3.3	9.8	5.0	14.2	8.0	20.5	13.5	18.7	13.3	14.9	10.2
25	8.8	4.8	8.9	5.5	14.4	8.4	18.3	14.4	18.4	13.1	15.0	9.9
26	8.1	4.5	9.2	6.3	15.3	8.7	18.4	14.1	19.3	13.2	12.5	10.2
27	8.0	5.0	10.0	6.2	15.4	9.9	19.6	13.9	19.1	13.8	13.8	10.8
28	7.6	4.8	9.2	6.4	14.1	10.0	17.1	13.2	19.9	13.4	14.3	9.4
29	10.3	4.4	8.9	6.2	13.3	10.1	17.6	13.3	19.6	14.0	12.3	10.5
30	8.8	5.2	9.7	6.1	11.9	8.5	17.3	13.0	18.9	14.0	11.0	9.5
31	---	---	10.5	5.6	---	---	18.0	12.6	18.9	13.3	---	---
MONTH	10.3	2.5	11.2	4.0	15.4	5.3	20.5	8.1	19.9	11.2	18.5	9.2

SPOKANE RIVER BASIN

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

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25 C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	339	207	232	233	145	142	118	75	52	85	192	247
2	386	227	217	238	156	139	116	76	56	99	178	250
3	250	184	193	198	161	149	120	72	57	101	180	251
4	247	251	224	195	176	154	124	76	58	107	177	254
5	245	261	225	201	176	153	117	83	57	111	185	241
6	244	248	226	235	175	161	99	88	57	110	192	218
7	242	242	219	154	189	162	93	94	64	111	201	213
8	233	223	184	69	182	170	87	98	74	104	208	209
9	222	262	230	75	192	177	105	98	81	104	205	221
10	226	247	236	92	191	184	91	103	86	115	191	232
11	257	197	228	108	186	162	80	106	88	120	190	222
12	276	201	233	125	186	87	81	98	84	127	198	225
13	286	201	229	128	201	128	72	84	75	133	213	248
14	288	196	162	120	202	125	58	68	62	138	221	256
15	279	198	158	132	199	131	67	71	58	144	227	264
16	304	248	201	142	209	140	81	77	56	151	229	266
17	---	240	165	163	206	147	92	76	58	155	239	263
18	---	222	170	154	202	153	100	74	66	161	241	263
19	---	221	189	157	197	158	105	64	67	157	214	265
20	210	223	204	168	190	148	107	48	75	150	207	253
21	299	206	214	171	190	157	104	52	76	152	184	197
22	309	154	206	171	128	161	97	56	73	154	186	207
23	263	160	228	176	96	158	96	63	70	160	212	226
24	266	167	242	217	110	148	99	73	68	175	220	279
25	289	179	193	131	123	150	97	82	68	182	228	311
26	284	197	252	113	127	149	97	75	69	190	227	331
27	211	191	258	148	130	134	95	62	69	197	200	277
28	246	233	225	150	147	127	95	53	70	201	209	279
29	274	219	200	144	---	129	93	49	73	203	234	283
30	274	174	196	145	---	130	82	48	76	207	241	261
31	221	---	211	156	---	127	---	51	---	208	246	---
MEAN	---	213	211	155	170	146	96	74	68	146	209	250

TURBIDITY IN NTU, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	>1000	<2.0	28	4.3	4.6	<2.0	20	<2.0	2.2	<2.0	64	<2.0
2	>1000	2.1	20	2.1	2.8	<2.0	3.5	<2.0	2.9	<2.0	3.5	<2.0
3	64	2.0	5.0	<2.0	190	<2.0	2.2	<2.0	3.1	<2.0	2.7	<2.0
4	5.1	2.1	3.9	<2.0	3.5	<2.0	2.2	<2.0	8.1	<2.0	4.2	<2.0
5	25	2.3	12	<2.0	2.9	<2.0	4.4	<2.0	4.7	<2.0	4.2	<2.0
6	4.7	2.0	3.8	<2.0	2.7	<2.0	2.4	<2.0	3.0	<2.0	3.6	<2.0
7	3.1	2.1	7.2	<2.0	<2.0	<2.0	310	2.0	8.3	<2.0	5.1	<2.0
8	9.9	2.0	2.3	<2.0	5.5	<2.0	>1000	<2.0	10	2.0	>1000	<2.0
9	9.3	<2.0	5.8	<2.0	5.4	<2.0	110	14	16	<2.0	6.3	<2.0
10	5.7	<2.0	<2.0	<2.0	3.4	<2.0	19	4.7	98	<2.0	3.5	<2.0
11	53	2.4	9.3	<2.0	<2.0	<2.0	8.7	3.1	12	<2.0	69	3.3
12	16	4.9	3.7	<2.0	4.7	<2.0	12	<2.0	5.7	<2.0	78	10
13	6.7	4.7	2.0	<2.0	8.0	<2.0	14	<2.0	4.1	<2.0	120	3.9
14	10	5.0	4.8	<2.0	50	5.3	3.5	<2.0	4.9	<2.0	6.5	2.5
15	11	7.6	5.5	<2.0	6.8	<2.0	3.6	<2.0	6.1	<2.0	6.0	2.0
16	9.0	3.4	2.9	<2.0	7.0	<2.0	4.2	<2.0	4.0	<2.0	17	<2.0
17	---	---	6.5	<2.0	13	2.3	2.0	<2.0	3.7	<2.0	73	<2.0
18	---	---	10	<2.0	5.7	<2.0	2.9	<2.0	4.2	<2.0	3.3	<2.0
19	---	---	10	<2.0	3.4	<2.0	<2.0	<2.0	9.7	<2.0	6.4	<2.0
20	7.1	<2.0	<2.0	<2.0	9.7	<2.0	5.2	<2.0	9.9	2.2	8.1	2.5
21	4.0	<2.0	12	<2.0	5.0	<2.0	2.4	<2.0	7.9	2.2	4.3	<2.0
22	7.2	2.0	9.8	2.6	2.6	<2.0	2.3	<2.0	120	6.8	4.4	<2.0
23	20	7.2	17	2.4	9.1	<2.0	7.8	<2.0	>1000	17	56	<2.0
24	14	9.0	9.1	<2.0	4.2	<2.0	4.2	<2.0	74	5.9	880	4.6
25	16	9.4	2.8	<2.0	<2.0	<2.0	22	4.2	8.4	4.0	520	3.6
26	14	<2.0	45	<2.0	<2.0	<2.0	11	2.2	5.0	2.2	---	---
27	5.9	<2.0	<2.0	<2.0	3.7	<2.0	4.7	<2.0	5.7	2.1	---	---
28	36	2.9	4.9	<2.0	4.1	<2.0	7.4	<2.0	4.1	<2.0	---	---
29	6.0	<2.0	26	<2.0	2.5	<2.0	2.4	<2.0	---	---	---	---
30	12	4.5	2.4	<2.0	<2.0	<2.0	3.6	<2.0	---	---	---	---
31	360	11	---	---	4.7	<2.0	3.0	<2.0	---	---	---	---
MONTH	---	---	45	2.0	190	2.0	1000	2.0	1000	2.0	---	---

SPOKANE RIVER BASIN

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

TURBIDITY IN NTU, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	50	8.6	150	76	160	2.7	<2.0	<2.0	2.1	<2.0
2	---	---	18	10	150	65	7.4	<2.0	<2.0	<2.0	3.5	<2.0
3	---	---	31	18	99	33	24	<2.0	<2.0	<2.0	2.1	<2.0
4	---	---	34	9.9	55	29	>1000	10	<2.0	<2.0	2.5	<2.0
5	---	---	12	7.5	58	27	800	5.1	<2.0	<2.0	3.3	<2.0
6	---	---	12	4.8	38	24	540	6.0	6.4	<2.0	5.0	<2.0
7	---	---	15	3.2	44	18	>1000	17	200	<2.0	6.2	<2.0
8	---	---	7.0	3.0	250	14	580	9.0	3.0	<2.0	2.9	<2.0
9	---	---	6.3	2.6	32	7.4	>1000	3.8	2.0	<2.0	2.6	<2.0
10	---	---	6.3	2.0	22	5.3	11	<2.0	3.0	<2.0	7.2	<2.0
11	48	27	4.1	<2.0	16	3.6	9.4	<2.0	2.3	<2.0	2.7	<2.0
12	150	24	5.2	<2.0	10	3.5	4.7	<2.0	3.4	<2.0	3.1	<2.0
13	770	51	14	2.9	13	3.6	4.1	<2.0	<2.0	<2.0	<2.0	<2.0
14	>1000	240	31	10	17	9.0	230	3.0	<2.0	<2.0	3.9	<2.0
15	670	190	21	8.1	260	15	120	2.1	<2.0	<2.0	<2.0	<2.0
16	200	55	17	6.0	32	17	60	<2.0	<2.0	<2.0	2.5	<2.0
17	84	25	9.9	6.2	34	13	1000	<2.0	2.8	<2.0	52	<2.0
18	50	17	14	7.0	43	12	---	---	540	<2.0	12	<2.0
19	26	9.5	210	14	15	5.5	---	---	<2.0	<2.0	2.6	<2.0
20	15	6.6	320	170	12	4.6	---	---	2.0	<2.0	<2.0	<2.0
21	12	6.1	190	87	10	2.7	---	---	59	<2.0	<2.0	<2.0
22	12	7.6	170	90	59	3.4	76	7.1	260	<2.0	<2.0	<2.0
23	13	5.8	120	53	59	4.4	>1000	7.1	4.0	<2.0	<2.0	<2.0
24	11	5.1	63	36	14	3.5	180	16	4.8	<2.0	3.1	<2.0
25	8.3	4.7	93	23	35	3.8	140	37	<2.0	<2.0	7.5	<2.0
26	6.9	3.6	55	22	9.6	3.2	120	14	4.6	<2.0	2.4	<2.0
27	5.9	3.1	70	35	12	2.5	180	6.1	4.9	<2.0	2.0	<2.0
28	9.9	3.2	160	62	34	<2.0	11	6.1	<2.0	<2.0	3.0	<2.0
29	130	2.1	180	110	590	2.7	15	<2.0	45	<2.0	2.5	<2.0
30	270	4.2	430	100	13	2.8	4.0	<2.0	3.3	<2.0	2.7	<2.0
31	---	---	200	91	---	---	>1000	<2.0	<2.0	<2.0	---	---
MONTH	---	---	430	2.0	590	2.0	---	---	540	2.0	52	2.0

> Actual value is known to be greater than the value shown
 < Actual value is known to be less 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 NW¹/₄SE¹/₄NW¹/₄ sec.34, T.49 N., R.1 E., Kootenai County, 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 mi², 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.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,000 ft³/s Feb. 9, 1996, gage height, 51.62 ft, from rating curve extended above 30,000 ft³/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 ft³/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 ft³/s, by indirect computation.

EXTREMES FOR CURRENT YEAR.--Peak discharges above a base discharge of 11,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 9	0600	18,400	42.25	May 3	2245	12,400	40.45
Feb. 23	1300	12,600	40.51	May 23	1000	19,800	42.63
Apr. 15	0245	*37,600	*46.51	May 29	0915	15,900	41.54

Minimum daily, 258 ft³/s Oct. 6.

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	276	1340	945	727	1590	3100	3990	10000	11900	2300	707	451
2	272	1040	974	654	1460	2650	4550	11200	10300	2070	686	437
3	265	842	1040	670	1370	2360	4630	11900	9360	1910	675	432
4	262	722	1070	701	1300	2190	4500	11600	8720	1790	665	426
5	260	639	1000	669	1220	2080	4760	9820	8440	1690	676	427
6	258	591	949	667	1190	2050	5760	8360	8110	1590	680	435
7	259	554	900	1500	1210	1880	7610	6980	7030	1520	663	458
8	270	517	833	11200	1330	1680	9980	6000	5950	1530	637	446
9	305	492	823	16700	1240	1610	9720	5250	5260	1520	622	426
10	319	462	810	10100	1160	1560	9230	4770	4660	1400	600	415
11	359	444	780	6420	1150	1910	12700	4490	4260	1330	588	406
12	390	430	750	5000	1100	6070	13700	4710	4110	1270	571	399
13	397	420	790	5200	1050	6440	16500	6120	4350	1220	558	393
14	403	486	1670	4430	1090	5140	27900	9850	4940	1180	545	385
15	393	903	1920	3650	1030	4250	33000	11000	5390	1130	535	380
16	357	898	1550	3060	1020	3660	19800	9400	5550	1090	524	378
17	335	938	1900	2640	1050	3200	12800	8870	5260	1060	514	404
18	323	1070	2310	2320	1080	2840	9610	9230	4820	1030	499	434
19	327	1010	1960	2120	1100	2660	8220	10600	4590	994	493	423
20	345	922	1610	2010	1220	3080	7800	16000	3980	965	490	403
21	350	947	1390	1890	1240	2670	7880	16500	3600	929	564	387
22	372	1090	1220	1720	3120	2440	8640	16500	3530	900	627	378
23	511	1700	1090	1570	11700	2450	9100	19000	3590	877	555	374
24	632	1990	921	1520	9840	2610	8410	14400	3440	864	531	371
25	588	1650	837	2470	6830	2600	7530	10800	3190	838	520	367
26	514	1370	758	4020	5140	2640	7100	9980	2980	822	503	365
27	468	1170	674	3170	4250	3080	6910	11700	2850	804	497	365
28	609	1050	800	2510	3630	3420	6740	14100	2710	783	490	362
29	678	1030	840	2100	---	3490	6800	15500	2750	765	476	364
30	652	984	769	1860	---	3450	8000	14700	2650	750	469	383
31	956	---	730	1710	---	3560	---	13200	---	723	462	---
TOTAL	12705	27701	34613	104978	69710	92820	303870	332530	158270	37644	17622	12074
MEAN	409.8	923.4	1117	3386	2490	2994	10130	10730	5276	1214	568.5	402.5
MAX	956	1990	2310	16700	11700	6440	33000	19000	11900	2300	707	458
MIN	258	420	674	654	1020	1560	3990	4490	2650	723	462	362
AC-FT	25200	54940	68650	208200	138300	184100	602700	659600	313900	74670	34950	23950
CFSM	0.34	0.76	0.91	2.77	2.04	2.45	8.28	8.77	4.31	0.99	0.46	0.33
IN.	0.39	0.84	1.05	3.19	2.12	2.82	9.24	10.11	4.81	1.15	0.54	0.37

SPOKANE RIVER BASIN

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	566.4	1334	1974	1858	2571	3328	7327	7005	2722	912.2	483.7	416.5
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 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	^b WATER YEARS 1911 - 2002
ANNUAL TOTAL	424851	1204537	
ANNUAL MEAN	1164	3300	2536
HIGHEST ANNUAL MEAN			4057
LOWEST ANNUAL MEAN			1043
HIGHEST DAILY MEAN	10300	Apr 29	33000
LOWEST DAILY MEAN	243	Sep 25	258
ANNUAL SEVEN-DAY MINIMUM	250	Sep 19	264
ANNUAL RUNOFF (AC-FT)	842700		2389000
ANNUAL RUNOFF (CFSM)	0.95		2.70
ANNUAL RUNOFF (INCHES)	12.92		36.64
10 PERCENT EXCEEDS	2500		9650
50 PERCENT EXCEEDS	579		1300
90 PERCENT EXCEEDS	277		401
			1837000
			2.07
			28.17
			6840
			1110
			348
			1996
			1944
			Apr 15
			Feb 9 1996
			Oct 6
			Dec 5 1929
			Oct 2
			Jan 16 1930

SPOKANE RIVER BASIN

12413860 COEUR D'ALENE RIVER NEAR HARRISON, ID

LOCATION.--Lat 47°28'43", long 116°43'56", in NE¹/₄SW¹/₄NW¹/₄ sec.28, T.48 N., R.3 W., Kootenai County, 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 mi², 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, 2,130.16 ft, Apr. 17; minimum, 2,119.13 ft, Jan. 6, 7.

GAGE HEIGHT, in FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.14	22.64	22.38	19.60	21.43	22.25	22.64	26.21	29.39	---	25.07	25.21
2	24.07	22.65	22.34	19.48	21.27	22.10	22.76	26.31	29.39	---	25.09	25.18
3	24.00	22.63	22.30	19.38	21.12	21.93	22.86	26.46	29.28	---	25.10	25.18
4	23.92	22.59	22.25	19.29	20.98	21.76	22.93	26.64	29.11	---	25.13	25.17
5	23.84	22.55	22.21	19.22	20.82	21.63	23.01	26.74	28.93	---	25.14	25.17
6	23.76	22.50	22.17	19.16	20.67	21.54	23.18	26.71	28.70	---	25.17	25.16
7	23.68	22.44	22.09	19.26	20.55	21.41	23.47	26.56	28.41	---	25.17	25.15
8	23.61	22.37	22.02	20.42	20.54	21.27	23.89	26.32	28.16	---	25.17	25.14
9	23.55	22.30	21.95	22.04	20.44	21.12	24.31	26.02	27.84	---	25.17	25.12
10	23.48	22.24	21.86	22.62	20.37	21.01	24.66	25.70	27.47	24.97	25.17	25.07
11	23.44	22.17	21.77	22.76	20.29	21.01	25.09	25.38	27.07	25.01	25.16	25.03
12	23.40	22.10	21.63	22.88	20.20	21.55	25.63	25.10	26.67	25.05	25.15	24.98
13	23.36	22.03	21.55	22.99	20.12	22.19	26.16	24.93	26.33	---	25.15	24.92
14	23.33	21.99	21.70	23.10	20.04	22.44	27.05	24.99	26.06	---	25.13	24.87
15	23.30	21.98	21.72	23.07	19.96	22.50	28.61	25.27	25.89	---	25.12	24.81
16	23.25	21.98	21.66	22.96	19.88	22.48	29.81	25.46	25.80	25.19	25.10	24.76
17	23.20	22.01	21.66	22.81	19.82	22.42	30.13	25.54	25.74	25.20	25.10	24.73
18	23.11	21.99	21.64	22.64	19.77	22.32	29.92	25.62	25.70	25.19	25.08	24.69
19	23.05	21.98	21.58	22.49	19.74	22.22	29.52	25.74	25.61	25.17	25.07	24.64
20	23.01	21.96	21.46	22.36	19.76	22.27	29.07	26.10	25.47	25.14	25.07	24.59
21	22.97	21.97	21.31	22.14	19.78	22.29	28.65	26.75	25.27	25.11	25.08	24.53
22	22.94	22.02	21.16	21.95	19.99	22.22	28.31	27.33	25.10	25.09	25.13	24.47
23	22.94	22.16	20.98	21.77	21.15	22.16	28.03	27.96	24.98	25.09	25.15	24.41
24	22.87	22.29	20.78	21.57	22.07	22.13	27.77	28.46	24.89	25.10	25.16	24.36
25	22.82	22.37	20.57	21.60	22.35	22.13	27.49	28.58	24.83	25.10	25.17	24.31
26	22.75	22.43	20.37	21.92	22.43	22.14	27.20	28.49	24.80	25.10	25.18	24.25
27	22.67	22.42	20.20	22.03	22.41	22.22	26.92	28.41	24.78	25.08	25.19	24.20
28	22.62	22.41	20.06	21.96	22.36	22.33	26.66	28.51	24.82	25.08	25.20	24.14
29	22.59	22.42	19.94	21.84	---	22.42	26.43	28.76	24.93	25.07	25.20	24.09
30	22.58	22.40	19.82	21.71	---	22.49	26.25	29.06	24.95	25.07	25.21	24.04
31	22.62	---	19.70	21.57	---	22.55	---	29.28	---	25.06	25.21	---
MEAN	23.25	22.27	21.38	21.57	20.73	22.02	26.28	26.75	26.55	---	25.14	24.75
MAX	24.14	22.65	22.38	23.10	22.43	22.55	30.13	29.28	29.39	---	25.21	25.21
MIN	22.58	21.96	19.70	19.16	19.74	21.01	22.64	24.93	24.78	---	25.07	24.04

CAL YR 2001 MEAN 22.50 MAX 25.44 MIN 18.01

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 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEC C) (00020)	TEMPER-ATURE WATER (DEC C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
OCT 24...	1400	651	95	7.0	9.0	8.5	37	9.40	3.40	--	E.08	--	.004
JAN 09...	0840	12400	33	6.8	4.0	1.9	13	3.17	1.22	.038	.64	.075	.005
FEB 05...	1100	1900	64	6.6	-1.5	1.8	24	5.74	2.37	.027	.10	.056	.004
APR 16...	0930	24700	34	7.0	3.5	4.7	12	2.88	1.16	.016	.33	.041	.006
APR 18...	0900	14500	39	7.0	5.0	5.6	14	3.43	1.34	<.015	.11	.035	.006
MAY 22...	0800	13600	30	6.7	6.0	6.3	14	3.41	1.23	<.015	.15	.024	.005
JUN 13...	0845	--	45	6.8	18.0	13.7	20	5.01	1.74	<.015	E.08	E.009	.006
JUL 09...	0805	1350	68	7.0	14.0	15.4	27	6.81	2.39	<.015	<.10	<.013	.004
AUG 27...	0800	354	97	7.2	15.5	20.3	39	9.90	3.51	<.015	E.08	<.013	E.002

Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT 24...	.009	1.48	1.58	230	61	5.41	24	107	99.2	366	371	--
JAN 09...	.23	.59	8.41	17500	83	23.8	1790	1820	131	132	857	--
FEB 05...	.012	1.28	1.45	400	121	5.93	19	163	160	255	233	--
APR 16...	.129	.53	4.82	14500	90	20.4	1060	1560	112	101	676	368
APR 18...	.031	.53	.76	1320	30	6.22	91	156	44.3	95	138	57
MAY 22...	.037	.54	1.47	3180	95	16.0	252	358	45.7	96	202	--
JUN 13...	.011	.81	.83	360	154	6.16	17	85	74.3	129	136	--
JUL 09...	.009	1.33	1.46	250	75	12.0	30	111	110	230	233	--
AUG 27...	.008	1.80	2.06	140	24	1.89	18	44	.4	290	314	--

< 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 NW¹/₄NW¹/₄SE¹/₄ 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 July discharges, which are fair, and estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,280 ft³/s May 30, 2002, gage height, 5.42 ft; minimum daily, 38 ft³/s Dec. 25, 26, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,280 ft³/s May 30, gage height, 5.42 ft; minimum daily, 38 ft³/s Dec. 25, 26.

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	56	178	e65	e46	e60	e70	134	527	2830	1180	184	100
2	55	142	e65	e46	e60	e65	e120	631	2710	1050	179	99
3	54	132	e65	e50	e55	e60	e130	724	2650	964	175	97
4	54	114	e60	e55	e55	e60	e140	670	2570	888	172	100
5	54	106	e60	e55	e55	e65	e170	622	2600	810	168	96
6	53	101	e60	e60	e55	e65	215	566	2610	765	170	99
7	54	94	e60	e220	e60	e60	221	522	2280	743	162	104
8	56	e75	e60	e380	e70	e55	211	475	1940	754	159	96
9	60	e70	e55	315	e65	e55	220	446	1640	723	153	92
10	57	e70	e55	227	e65	e65	262	426	1500	673	148	90
11	98	e70	e55	197	e65	e80	292	418	1390	636	144	89
12	73	e75	e55	178	e60	e100	318	449	1350	599	141	87
13	85	84	e60	164	e55	e95	429	548	1470	561	137	87
14	88	89	e65	e150	e55	e85	1220	717	1850	550	134	86
15	75	84	e60	e140	e55	e80	965	737	2350	514	131	84
16	64	81	e60	e130	e55	e75	673	731	2690	477	127	84
17	68	88	e70	e120	e60	e70	542	765	2650	444	124	92
18	61	87	e70	e120	e65	e70	460	852	2380	412	121	94
19	65	81	e70	e110	e65	e75	412	1270	2060	385	120	85
20	69	81	e65	e110	e70	e80	387	1970	1780	359	122	82
21	64	109	e60	e110	e70	e75	377	2000	1720	337	151	80
22	86	112	e55	e110	e80	e95	369	2030	1830	312	134	80
23	131	116	e46	e100	e100	121	370	1680	1960	292	121	80
24	80	e90	e40	e100	e95	125	350	1430	1900	269	117	80
25	68	e85	e38	e100	e80	119	359	1310	1840	252	114	80
26	65	e75	e38	e110	e75	124	382	1440	1790	e240	114	80
27	68	e65	e40	e90	e75	137	385	1820	1760	e230	113	80
28	121	e46	e46	e70	e70	131	368	2430	1630	e220	108	80
29	90	e65	e55	e65	---	126	387	2860	1700	e210	105	81
30	144	e70	e50	e65	---	122	449	3200	1400	e200	103	92
31	282	---	e50	e65	---	124	---	2960	---	e190	101	---
TOTAL	2498	2735	1753	3858	1850	2729	11317	37226	60830	16239	4252	2656
MEAN	80.58	91.17	56.55	124.5	66.07	88.03	377.2	1201	2028	523.8	137.2	88.53
MAX	282	178	70	380	100	137	1220	3200	2830	1180	184	104
MIN	53	46	38	46	55	55	120	418	1350	190	101	80
AC-FT	4950	5420	3480	7650	3670	5410	22450	73840	120700	32210	8430	5270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

	85.63	106.1	90.85	112.0	87.01	117.4	391.1	1125	1092	361.6	127.9	86.58
MEAN	85.63	106.1	90.85	112.0	87.01	117.4	391.1	1125	1092	361.6	127.9	86.58
MAX	99.0	157	132	178	111	157	678	1349	2028	634	166	103
(WY)	2000	1998	2000	1999	1999	1998	2000	1998	2002	1999	1999	1999
MIN	76.9	55.8	53.7	55.3	57.2	79.1	161	770	393	156	84.5	60.9
(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 1998 - 2002	
ANNUAL TOTAL	62513		147943			
ANNUAL MEAN	171.3		405.3		321.6	
HIGHEST ANNUAL MEAN					405	
LOWEST ANNUAL MEAN					169	
HIGHEST DAILY MEAN	1260	May 16	3200	May 30	3200	May 30 2002
LOWEST DAILY MEAN	38	Dec 25	38	Dec 25	38	Dec 25 2001
ANNUAL SEVEN-DAY MINIMUM	43	Dec 22	43	Dec 22	43	Dec 22 2001
ANNUAL RUNOFF (AC-FT)	124000		293400		233000	
10 PERCENT EXCEEDS	465		1450		933	
50 PERCENT EXCEEDS	75		110		112	
90 PERCENT EXCEEDS	55		56		59	

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 (discontinued).

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.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 17.6 °C July 24; minimum, 0.0 °C many days during winter months.

WATER-QUALITY DATA, MAY TO JUNE 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
MAY 14...	1200	713	31	7.9	7.0	4.6	2.4	12.4	110	S2
JUN 06...	1410	2480	27	7.2	17.0	5.7	4.6	10.9	99	S1
25...	1345	1690	27	7.1	28.5	7.7	2.0	10.8	103	<1

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 SOLVED (MG/L AS N) (00631)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
MAY 14...	<.015	E.07	<.013	<.007	.006	2.0	3.9
JUN 06...	<.015	E.08	.033	E.004	.019	17	114
25...	<.015	E.08	<.013	<.007	.008	12	54.8

< Less than
E Estimated value
S Most probable value

WATER TEMPERATURE, DEGREES CELSIUS, OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	4.6	3.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0
2	---	---	---	4.9	4.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0
3	---	---	---	6.0	4.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0
4	---	---	---	4.0	2.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
5	---	---	---	2.6	1.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0
6	---	---	---	3.2	2.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
7	---	---	---	2.8	0.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
8	---	---	---	1.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
9	---	---	---	0.4	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0
10	---	---	---	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1
11	---	---	---	0.4	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1
12	---	---	---	0.5	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0
13	---	---	---	0.5	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0
14	---	---	---	2.6	0.5	1.7	0.0	0.0	0.0	0.2	0.0	0.0
15	---	---	---	4.0	2.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
16	---	---	---	3.2	1.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0
17	---	---	---	4.0	3.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0
18	---	---	---	4.3	2.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
19	---	---	---	2.9	1.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
20	---	---	---	3.4	1.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0
21	---	---	---	3.7	2.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
22	---	---	---	2.9	0.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0
23	---	---	---	2.1	1.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
24	---	---	---	1.5	0.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0
25	---	---	---	0.7	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
26	---	---	---	0.5	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
27	---	---	---	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
28	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	5.4	4.2	5.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	---	---	---	6.0	0.0	1.7	0.0	0.0	0.0	0.2	0.0	0.0

PEND OREILLE RIVER BASIN
12413875 ST JOE RIVER NEAR RED IVES , ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, OCTOBER 2001 TO SEPTEMBER 2002

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	7.9	2.4	4.6
2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.1	7.3	2.3	4.5
3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.1	5.9	3.1	4.2
4	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.1	4.9	2.3	3.6
5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.1	4.0	2.8	3.3
6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	5.3	1.8	3.2
7	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.4	4.0	1.8	2.8
8	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.7	2.3	4.5	1.5	2.8
9	0.0	0.0	0.0	0.0	0.0	0.0	3.4	1.2	2.2	5.6	1.8	3.5
10	0.0	0.0	0.0	0.0	0.0	0.0	4.3	1.8	2.9	6.7	2.8	4.4
11	0.0	0.0	0.0	0.0	0.0	0.0	4.2	1.8	2.9	6.3	2.0	4.0
12	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.3	2.9	9.0	2.3	5.1
13	0.0	0.0	0.0	0.0	0.0	0.0	4.5	2.0	2.8	7.4	2.6	5.0
14	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.7	1.3	5.4	3.4	4.4
15	0.0	0.0	0.0	0.0	0.0	0.0	3.4	1.3	2.2	5.3	2.3	3.8
16	0.0	0.0	0.0	0.0	0.0	0.0	4.3	1.8	2.8	5.9	2.3	4.0
17	0.0	0.0	0.0	0.0	0.0	0.0	4.2	2.1	3.0	5.6	2.6	4.2
18	0.0	0.0	0.0	0.0	0.0	0.0	4.5	2.1	3.1	6.0	2.8	4.2
19	0.0	0.0	0.0	0.0	0.0	0.0	4.8	1.6	3.0	7.3	2.9	4.5
20	0.0	0.0	0.0	0.0	0.0	0.0	5.4	1.8	3.3	3.9	2.4	3.1
21	0.0	0.0	0.0	0.0	0.0	0.0	5.1	2.4	3.5	3.5	3.1	3.3
22	0.0	0.0	0.0	0.0	0.0	0.0	4.9	2.6	3.6	3.5	3.1	3.3
23	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.1	3.0	4.9	2.9	3.7
24	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.5	2.8	6.5	3.2	4.5
25	0.0	0.0	0.0	0.0	0.0	0.0	7.4	2.1	4.2	5.9	2.8	4.3
26	0.0	0.0	0.0	0.2	0.0	0.0	6.3	2.1	4.1	6.2	3.5	4.6
27	0.0	0.0	0.0	0.0	0.0	0.0	4.8	2.6	3.6	6.8	3.4	4.7
28	0.0	0.0	0.0	0.2	0.0	0.0	5.1	2.6	3.7	6.5	3.4	4.4
29	---	---	---	0.2	0.0	0.0	7.7	1.8	4.1	5.6	3.2	4.1
30	---	---	---	0.2	0.0	0.0	5.6	2.3	4.0	4.9	3.4	3.9
31	---	---	---	0.4	0.0	0.1	---	---	---	6.8	3.1	4.5
MONTH	0.0	0.0	0.0	0.4	0.0	0.0	7.7	0.0	2.4	9.0	1.5	4.0
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.8	3.2	3.8	9.1	4.9	6.7	15.5	7.9	11.5	14.2	10.2	11.9
2	6.3	3.5	4.5	10.2	4.5	7.1	15.3	8.3	11.6	15.9	8.6	12.0
3	6.5	3.2	4.6	10.7	5.3	7.8	14.8	7.4	11.1	16.3	9.7	12.8
4	6.7	3.2	4.6	9.6	6.0	7.9	14.8	9.7	11.9	16.6	12.0	14.0
5	5.9	3.5	4.5	10.8	5.1	7.7	13.3	9.4	11.6	15.3	11.1	13.3
6	6.7	3.4	4.7	11.9	5.6	8.5	13.4	9.1	10.9	15.0	11.1	12.9
7	6.2	2.9	4.4	10.8	7.0	9.0	11.9	9.1	10.4	13.0	10.3	11.8
8	4.9	3.4	3.8	10.1	7.1	8.3	12.8	8.0	10.2	12.5	8.9	10.8
9	4.5	3.4	3.8	11.9	5.6	8.4	15.6	7.9	11.3	13.3	6.9	10.0
10	5.3	3.7	4.3	13.3	6.8	9.8	16.3	8.5	12.1	14.2	7.1	10.3
11	7.4	3.5	5.0	14.1	7.9	10.9	15.8	9.4	12.3	14.5	7.2	10.6
12	6.8	3.4	5.1	15.0	8.7	11.7	16.3	8.3	12.1	14.5	7.4	10.8
13	9.0	3.5	5.7	14.9	9.4	12.2	17.2	8.9	12.7	14.5	7.7	11.0
14	8.7	3.5	5.8	14.9	10.7	12.8	17.5	9.7	13.4	13.9	7.2	10.6
15	8.4	3.7	5.6	15.2	9.9	12.5	16.9	9.2	13.0	13.0	8.3	10.9
16	7.7	3.7	5.3	14.4	10.5	12.4	16.4	9.1	12.5	11.9	8.3	10.3
17	7.0	3.7	5.2	16.1	10.2	12.8	15.5	7.7	11.5	11.1	9.4	10.2
18	5.7	4.2	4.6	16.5	10.7	13.4	15.8	8.0	11.7	12.5	8.8	10.0
19	6.0	4.0	4.7	15.0	11.9	13.3	15.8	8.0	11.7	12.7	6.5	9.3
20	8.5	3.2	5.4	16.1	10.2	12.8	14.7	9.2	11.9	12.5	7.4	9.7
21	7.4	4.0	5.6	16.3	9.6	12.7	13.3	9.9	11.4	10.3	4.9	7.6
22	9.0	4.3	6.2	16.5	9.7	12.8	13.9	9.6	11.3	10.2	3.8	6.9
23	8.7	4.3	6.2	16.6	11.5	13.9	16.3	8.8	11.9	10.7	4.4	7.4
24	9.4	4.2	6.3	17.6	11.3	14.2	13.7	9.4	10.9	10.5	5.2	7.8
25	9.9	4.3	6.7	17.1	11.8	14.2	15.3	8.6	11.6	10.5	5.1	7.7
26	10.1	4.5	6.8	16.7	11.5	14.0	13.9	9.6	12.0	9.1	5.1	7.2
27	10.4	5.3	7.4	15.3	11.1	13.0	15.2	10.5	12.4	9.2	7.1	8.0
28	9.6	5.6	7.4	15.5	9.4	12.3	17.4	10.0	13.2	10.8	6.0	8.1
29	8.4	5.9	6.6	14.4	11.1	12.4	16.7	10.5	13.4	8.2	5.5	6.3
30	8.5	4.6	6.3	16.7	9.4	12.5	15.9	9.7	12.8	6.5	5.2	5.8
31	---	---	---	15.8	10.2	12.7	16.9	9.9	12.9	---	---	---
MONTH	10.4	2.9	5.4	17.6	4.5	11.3	17.5	7.4	11.9	16.6	3.8	9.9

SPOKANE RIVER BASIN
12414500 ST. JOE RIVER AT CALDER, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1989 to September 1993, April to September 1996, April 1998 to current year.

PERIOD OF DAILY RECORD.--

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

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 24.5 °C Aug. 7, 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT											
24...	1130	654	58	7.2	6.0	5.5	--	E.08	--	E.003	.005
JAN											
07...	1430	1760	43	6.8	2.0	--	<.015	.24	.016	E.003	.026
FEB											
04...	1150	733	53	6.6	3.0	.7	<.015	E.05	<.013	<.004	<.004
MAR											
13...	0930	2430	42	7.4	8.5	2.4	<.015	<.10	<.013	--	.013
APR											
17...	1330	7140	43	7.7	7.0	4.4	<.015	E.07	.017	.007	.013
MAY											
21...	1445	14700	30	6.7	12.5	5.1	<.015	.13	.028	.005	.039
JUN											
12...	1130	6690	33	7.3	20.5	7.2	<.015	<.10	E.010	E.003	.007
JUL											
09...	1535	2920	37	7.2	27.5	12.9	<.015	E.09	<.013	E.004	.006
AUG											
27...	1550	611	60	7.7	31.0	17.9	<.015	E.06	<.013	E.002	.004

< Less than
E Estimated value

SPOKANE RIVER BASIN
12414900 ST MARIES RIVER NEAR SANTA, ID--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--October 1972 to October 1981, November 1990 to September 1994, October 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT 24...	0900	97	51	7.3	2.0	4.0	--	.22	--	.013	.050
JAN 07...	1215	571	43	7.5	3.5	--	<.015	.94	.103	.026	.183
FEB 04...	1520	169	45	6.9	5.0	.0	<.015	.18	<.013	.009	.024
MAR 12...	1140	2300	28	6.7	6.5	.5	<.015	.56	.045	.023	.174
APR 17...	1100	1690	30	7.4	6.0	3.6	<.015	.24	.016	.016	.051
MAY 21...	1100	1600	24	6.6	9.0	5.4	<.015	.18	.032	.009	.047
JUN 12...	0800	560	29	7.0	9.5	8.6	<.015	.14	<.013	.006	.018
JUL 09...	1300	172	38	7.4	25.0	17.3	E.008	.15	<.013	.010	.016
AUG 27...	1055	66	52	7.4	23.0	16.4	<.015	.15	<.013	.010	.017

< 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 NE¼NW¼SE¼ sec.24, T.50 N., R.4 W., Kootenai County, 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 mi², 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, 477,900 acre-ft Apr. 17, elevation, 2,132.59 ft; minimum, 52,100 acre-ft Jan. 6, elevation, 2,121.94 ft.

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

21.9	51,000	28.0	238,500
22.0	53,700	30.0	339,700
24.0	107,900	32.0	446,000
26.0	162,900	34.0	554,400

GAGE HEIGHT, in FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.93	25.45	25.21	22.30	24.13	24.89	25.36	28.75	31.99	27.67	27.88	28.02
2	26.85	25.45	25.12	22.22	23.97	24.75	25.47	28.86	31.96	27.59	27.92	27.99
3	26.76	25.42	25.09	22.14	23.84	24.60	25.57	28.98	31.82	27.58	27.92	27.96
4	26.65	25.38	25.04	22.06	23.68	24.47	25.64	29.12	31.65	27.56	27.94	27.94
5	26.61	25.34	25.00	21.96	23.54	24.30	25.74	29.23	31.45	27.54	27.96	27.94
6	26.54	25.27	24.96	21.99	23.40	24.22	25.94	29.16	31.21	27.56	27.97	27.94
7	26.45	25.21	24.87	22.22	23.35	24.12	26.22	29.01	30.94	27.61	27.97	27.95
8	26.40	25.14	24.82	23.10	23.27	23.97	26.59	28.79	30.65	27.69	27.98	27.94
9	26.33	25.08	24.72	24.17	23.19	23.86	27.00	28.50	30.30	27.72	27.98	27.89
10	26.28	25.00	24.63	24.88	23.13	23.75	27.34	28.21	29.92	27.75	27.97	27.84
11	26.24	24.93	24.51	25.27	23.05	23.87	27.79	27.91	29.54	27.80	27.96	27.80
12	26.20	24.86	24.40	25.51	22.96	24.42	28.24	27.65	29.16	27.86	27.95	27.76
13	26.16	24.80	24.42	25.68	22.87	24.88	28.79	27.54	28.83	27.89	27.95	27.70
14	26.12	24.77	24.49	25.74	22.81	25.08	29.81	27.62	28.61	27.96	27.93	27.64
15	26.05	24.77	24.48	25.72	22.72	25.14	31.45	27.84	28.48	27.98	27.92	27.59
16	26.05	24.77	24.46	25.60	22.65	25.12	32.43	27.98	28.43	27.98	27.90	27.56
17	25.96	24.78	24.40	25.46	22.59	25.08	32.58	28.07	28.40	28.00	27.87	27.51
18	25.90	24.77	24.37	25.31	22.55	24.98	32.31	28.13	28.36	27.99	27.88	27.47
19	25.84	24.77	24.27	25.17	22.57	24.90	31.90	28.32	28.25	27.97	27.87	27.40
20	25.78	24.76	24.15	25.02	22.56	24.96	31.46	28.74	28.07	27.93	27.87	27.34
21	25.76	24.77	24.01	24.81	22.63	24.96	31.06	29.35	27.88	27.87	27.92	27.28
22	25.78	24.89	23.84	24.64	22.90	24.91	30.71	29.91	27.75	27.86	27.94	27.24
23	25.71	25.01	23.66	24.46	23.65	24.87	30.42	30.54	27.66	27.89	27.97	27.18
24	25.65	25.10	23.46	24.31	24.41	24.86	30.17	30.93	27.60	27.90	27.98	27.12
25	25.59	25.20	23.26	24.47	24.78	24.87	29.89	31.01	27.57	27.90	27.98	27.07
26	25.52	25.23	23.06	24.66	24.96	24.90	29.60	30.94	27.55	27.93	27.97	26.99
27	25.45	25.22	22.91	24.71	25.00	24.98	29.37	30.93	27.61	27.89	27.97	26.94
28	25.37	25.23	22.77	24.64	24.98	25.08	29.13	31.07	27.67	27.91	27.99	26.90
29	25.36	25.24	22.66	24.52	---	25.19	28.90	31.39	27.75	27.88	28.02	26.89
30	25.41	25.21	22.54	24.41	---	25.24	28.76	31.69	27.75	27.89	28.01	26.81
31	25.42	---	22.41	24.28	---	25.31	---	31.90	---	27.87	28.02	---
MEAN	26.04	25.06	24.13	24.24	23.43	24.73	28.85	29.29	29.16	27.82	27.95	27.52
MAX	26.93	25.45	25.21	25.74	25.00	25.31	32.58	31.90	31.99	28.00	28.02	28.02
MIN	25.36	24.76	22.41	21.96	22.55	23.75	25.36	27.54	27.55	27.54	27.87	26.81
†	146700	141000	64800	115600	134700	143700	275900	440600	226600	232300	239500	188400
‡	-47500	-5700	-76200	50800	19100	9000	132200	164700	-214000	5700	7200	-51100

CAL YR 2001 MEAN 25.30 MAX 28.09 MIN 20.81 † 36600
WTR YR 2002 MEAN 26.53 MAX 32.58 MIN 21.96 ‡ -5800

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

SPOKANE RIVER BASIN

12419000 SPOKANE RIVER NEAR POST FALLS, ID

LOCATION.--Lat 47°42'11", long 116°58'37", in SW¹/₄SW¹/₄SW¹/₄ sec.4, T.50 N., R.5 W., Kootenai County, 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 mi², approximately, of which about 122 mi² 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.--Records good except for estimated daily discharges, which are fair. 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 ft³/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 ft³/s July 25, 30, 1973; minimum gage height, 4.68 ft, July 20, 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 30,500 ft³/s Apr. 17; minimum daily, 569 ft³/s Aug. 29.

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	e1600	2350	3450	3540	7040	8760	9940	19300	28600	9610	910	691
2	e1800	2350	3460	3270	6790	8510	10000	19500	28800	8620	767	727
3	e1800	2360	3460	3190	6280	8210	10300	19700	28500	6880	762	727
4	e1800	2350	3470	3020	6070	7630	10500	20100	28000	6160	761	734
5	e1800	2350	3470	2920	5940	7470	10600	20500	27500	5380	750	732
6	e1800	2350	3470	2920	5710	7060	11100	20600	26800	4270	952	730
7	e1800	2370	3460	2920	5480	6900	11600	20300	26000	3970	1100	731
8	e1800	2340	3460	3510	5390	6560	12300	19900	25200	3980	1100	731
9	e1800	2250	3450	4930	5020	6380	12200	19100	24300	3970	1100	1250
10	e1800	2240	3630	5470	4880	6060	13800	18300	23300	3510	1100	1690
11	e1800	2240	4160	6200	4770	6010	15900	17500	22200	3240	1100	1690
12	e1800	2230	4430	6350	4620	6840	17300	16700	21100	2810	1090	1680
13	e1800	2220	4450	6440	4470	8010	18700	15900	20000	2550	1090	1680
14	e1800	2220	5060	7630	4310	8880	20700	16000	19200	2540	1090	1720
15	e1800	2220	5430	8150	4260	9200	24400	16500	18800	2550	1090	1720
16	e1800	2220	5430	8650	4110	9280	28700	17000	18500	2550	979	1720
17	e1800	2220	5430	8490	4010	9160	30500	17300	18400	2540	913	1710
18	e1800	2220	5730	8350	3930	9090	30300	17400	18300	2830	911	1720
19	e1800	2210	5920	8190	3910	8690	29200	17700	17700	3000	844	1720
20	1800	2220	5860	8020	4010	8600	28000	18500	17300	2990	694	1720
21	1800	2220	5830	7820	3970	8750	26600	20000	16100	2890	626	1730
22	1790	2220	5750	7610	3990	8740	25600	21700	14800	2240	623	1730
23	1810	2230	5670	7410	4590	8710	24600	23400	14300	1870	656	1730
24	2110	2230	5430	7120	5890	8660	23800	25000	13300	1870	675	1720
25	2290	2230	5110	6920	7610	8650	23100	25600	12100	1870	672	1720
26	2350	2530	4580	7290	8450	8690	22300	25700	11000	1790	673	1720
27	2360	2700	4340	7540	8850	8750	21500	25500	9850	1660	670	1720
28	2350	2730	4200	7550	8830	8910	20900	25800	8590	1650	607	1720
29	2340	2830	4110	7460	---	9230	20200	26300	8750	1480	569	1720
30	2350	3140	3700	7330	---	9390	19600	27300	9630	1340	631	1720
31	2360	---	3700	7190	---	9520	---	28100	---	1190	676	---
TOTAL	59710	70590	139100	193400	153180	255300	584240	642200	576920	103800	26181	43053
MEAN	1926	2353	4487	6239	5471	8235	19470	20720	19230	3348	844.5	1435
MAX	2360	3140	5920	8650	8850	9520	30500	28100	28800	9610	1100	1730
MIN	1600	2210	3450	2920	3910	6010	9940	15900	8590	1190	569	691
AC-FT	118400	140000	275900	383600	303800	506400	1159000	1274000	1144000	205900	51930	85400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2002, BY WATER YEAR (WY)												
MEAN	1744	2878	4894	5205	6240	8185	14410	17540	9700	2108	937.1	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1913 - 2002	
ANNUAL TOTAL	1061520		2847674			
ANNUAL MEAN	2908		7802		6224	
HIGHEST ANNUAL MEAN					11600	
LOWEST ANNUAL MEAN					2143	
HIGHEST DAILY MEAN	16400	May 3	30500	Apr 17	49800	Dec 25 1933
LOWEST DAILY MEAN	224	Aug 21	569	Aug 29	67	Jul 24 1973
ANNUAL SEVEN-DAY MINIMUM	250	Aug 31	642	Aug 24	108	Aug 10 1966
ANNUAL RUNOFF (AC-FT)	2106000		5648000		4509000	
10 PERCENT EXCEEDS	5780		20800		17200	
50 PERCENT EXCEEDS	1800		4450		2990	
90 PERCENT EXCEEDS	592		1100		900	

e Estimated

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 (discontinued).

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

INSTRUMENTATION.--Water-quality data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 27.1 °C July 29, 1998; 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, 24.2 °C July 26-27; minimum, 2.0 °C Mar. 7-8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-AIRE (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, SATUR-ATION (PER-CENT) (00301)	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	HARD-NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	
Date		NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT	24...	0930	2290	54	7.4	3.5	10.0	--	--	--	--	22	6.03	1.79
JAN	08...	0915	3510	60	7.3	8.5	5.2	--	--	--	--	23	6.00	1.88
FEB	06...	0845	5730	58	7.1	1.5	3.2	--	--	--	--	22	5.78	1.86
APR	02...	1330	10100	61	7.4	6.0	3.7	3.8	13.3	108	S1	--	--	--
	17...	1215	30800	53	7.2	10.0	4.2	--	--	--	--	22	5.79	1.90
	22...	1200	25700	53	7.4	13.5	4.9	--	--	--	--	21	5.55	1.83
MAY	01...	1545	19300	53	7.0	17.0	8.2	6.2	11.6	106	S1	--	--	--
	22...	1245	22000	43	7.0	7.0	8.9	--	--	--	--	18	4.62	1.46
JUN	13...	1250	2020	42	7.2	29.5	14.0	4.0	9.3	97	S3	16	4.28	1.27
JUL	08...	0930	3980	40	7.1	14.0	18.0	--	--	--	--	16	4.21	1.23
AUG	26...	0920	675	47	7.7	18.0	20.9	--	--	--	--	17	4.64	1.39
OCT	24...	--	.16	--	E.003	--	.007	.10	.15	E7	30	.16	1	1.6
JAN	08...	.019	.20	.079	.005	--	.008	.14	.16	<10	30	E.07	<1	1.1
FEB	06...	E.009	.12	.055	.004	--	.006	.17	.19	<10	30	.10	<1	.9
APR	02...	<.015	.12	.083	--	<.007	.008	--	--	--	--	--	--	--
	17...	<.015	.13	.117	E.003	--	.010	.24	.39	25	130	.77	5	.8
	22...	<.015	.15	.098	.008	--	.010	.23	.42	21	110	.66	4	.7
MAY	01...	<.015	.17	.066	--	<.007	.021	--	--	--	--	--	--	--
	22...	<.015	.14	.027	<.004	--	.011	.23	.28	23	110	1.11	8	.6
JUN	13...	<.015	.11	<.013	<.004	--	.006	.21	.23	19	80	1.07	5	1.1
JUL	08...	<.015	.10	.025	E.004	--	.009	.16	.23	13	50	.42	2	.5
AUG	26...	<.015	.12	.131	.007	--	.011	.14	.14	E8	20	.38	<1	1.0

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	MANGA-NESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT 24...	4	41	45	--	--
JAN 08...	4	55	60	--	--
FEB 06...	3	65	60	--	--
APR 02...	--	--	--	2.0	54.5
17...	9	72	91	--	--
22...	8	69	89	--	--
MAY 01...	--	--	--	5.0	261
22...	9	59	63	--	--
JUN 13...	9	41	48	4.0	21.8
JUL 08...	7	48	51	--	--
AUG 26...	3	32	34	--	--

< Less than
 E Estimated value
 S Most probable value

WATER TEMPERATURE, DEGREES CELSIUS, NOVEMBER 2001 TO OCTOBER 2002

DAY	NOVEMBER			DECEMBER			JANUARY			FEBRUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.6	6.1	6.3	4.5	4.2	4.4	3.8	3.4	3.6
2	---	---	---	6.6	5.9	6.2	4.2	4.1	4.2	3.9	3.6	3.7
3	---	---	---	6.7	6.6	6.7	4.5	4.2	4.4	3.8	3.4	3.6
4	---	---	---	6.6	6.4	6.5	4.7	4.5	4.7	3.8	3.4	3.5
5	---	---	---	6.4	6.1	6.2	4.7	4.7	4.7	3.9	3.4	3.7
6	---	---	---	6.2	6.1	6.1	4.8	4.7	4.8	3.9	3.6	3.7
7	---	---	---	6.4	6.1	6.2	5.3	4.8	5.1	3.8	3.4	3.6
8	---	---	---	6.6	6.2	6.5	5.5	5.3	5.5	3.6	3.3	3.4
9	---	---	---	6.6	6.4	6.6	5.5	5.0	5.2	3.6	3.3	3.5
10	---	---	---	6.4	6.2	6.3	5.0	4.8	4.9	3.6	3.3	3.5
11	---	---	---	6.2	6.1	6.2	5.0	4.8	4.8	3.8	3.3	3.5
12	---	---	---	6.2	6.2	6.2	5.0	4.8	4.8	3.4	3.0	3.1
13	---	---	---	6.2	6.1	6.2	4.8	4.7	4.7	3.3	3.0	3.1
14	---	---	---	6.1	5.9	6.0	4.8	4.5	4.7	3.3	3.0	3.1
15	---	---	---	6.1	5.6	5.8	4.7	4.2	4.4	3.3	3.0	3.1
16	---	---	---	5.8	5.6	5.7	4.4	4.2	4.3	3.3	3.1	3.2
17	---	---	---	5.9	5.8	5.9	4.4	4.2	4.3	3.6	3.3	3.4
18	---	---	---	5.9	5.3	5.5	4.4	4.1	4.2	3.8	3.6	3.7
19	---	---	---	5.6	5.3	5.4	4.2	3.9	4.0	3.6	3.6	3.6
20	---	---	---	5.6	5.5	5.6	4.1	4.1	4.1	3.6	3.3	3.4
21	---	---	---	5.6	5.6	5.6	4.1	3.8	4.0	3.8	3.3	3.5
22	---	---	---	5.6	5.5	5.6	4.1	3.9	4.0	4.1	3.6	3.9
23	---	---	---	5.5	5.3	5.3	3.9	3.8	3.8	3.9	3.3	3.6
24	---	---	---	5.3	5.2	5.3	4.2	3.8	4.0	3.3	2.8	2.9
25	---	---	---	5.2	4.8	4.9	4.2	4.1	4.1	2.8	2.5	2.7
26	---	---	---	4.8	4.5	4.7	4.1	3.8	3.9	2.8	2.5	2.7
27	7.6	7.5	7.6	4.5	4.2	4.4	3.8	3.4	3.7	3.0	2.5	2.7
28	7.5	6.7	7.1	4.4	4.1	4.2	3.8	3.4	3.5	3.3	2.7	3.0
29	6.7	6.2	6.6	4.5	4.4	4.5	3.6	3.3	3.4	---	---	---
30	6.6	6.2	6.5	4.5	4.4	4.4	3.6	3.3	3.4	---	---	---
31	---	---	---	4.5	4.4	4.5	3.6	3.4	3.5	---	---	---
MONTH	---	---	---	6.7	4.1	5.7	5.5	3.3	4.3	4.1	2.5	3.4

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

WATER TEMPERATURE, DEGREES CELSIUS, NOVEMBER 2001 TO OCTOBER 2002												
DAY	MARCH			APRIL			MAY			JUNE		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.3	2.7	3.0	4.4	3.3	3.7	8.6	7.3	7.8	13.2	12.3	12.7
2	3.3	2.7	3.0	4.2	3.1	3.7	8.9	7.8	8.3	13.8	12.8	13.2
3	3.4	2.8	3.1	4.5	3.1	3.8	8.6	7.2	7.6	13.4	12.4	12.9
4	3.4	3.0	3.1	4.5	3.4	4.0	7.2	6.7	6.9	14.0	12.6	13.3
5	3.4	3.0	3.2	4.5	3.6	4.1	7.2	6.9	7.0	13.8	13.2	13.6
6	3.3	2.2	2.7	4.5	3.9	4.2	7.5	6.7	7.0	13.5	12.6	12.9
7	2.5	2.0	2.3	4.4	3.9	4.1	7.5	7.0	7.2	12.9	12.1	12.4
8	2.7	2.0	2.3	4.5	3.6	4.0	8.1	7.2	7.6	13.1	12.8	12.9
9	2.8	2.2	2.5	4.4	3.9	4.1	8.4	7.5	7.9	13.4	12.8	13.0
10	3.3	2.8	3.0	4.4	3.8	4.0	9.0	7.6	8.2	12.9	12.3	12.6
11	3.4	3.1	3.3	4.4	3.9	4.1	9.3	8.1	8.7	13.7	12.3	12.9
12	3.4	3.1	3.3	4.5	4.1	4.3	9.8	8.7	9.2	14.1	13.1	13.5
13	3.3	2.8	3.0	4.8	3.9	4.3	10.0	8.9	9.4	14.8	13.1	13.8
14	3.0	2.7	2.8	4.8	4.4	4.6	9.8	9.2	9.5	15.6	13.8	14.6
15	3.1	2.8	2.9	4.5	3.9	4.2	9.5	8.7	9.1	15.9	13.2	14.6
16	3.1	2.8	2.9	4.5	4.1	4.2	10.0	8.4	9.1	16.3	13.7	14.9
17	3.1	2.5	2.8	4.7	4.1	4.3	10.4	9.2	9.7	15.9	14.5	15.0
18	3.0	2.5	2.7	4.8	4.1	4.5	10.4	9.7	10.1	14.8	14.1	14.4
19	3.0	2.5	2.8	5.2	4.4	4.7	10.0	9.0	9.5	14.8	14.0	14.3
20	3.0	2.5	2.7	5.3	4.7	5.0	9.7	9.0	9.3	15.9	14.1	14.8
21	3.0	2.0	2.5	5.5	5.0	5.2	9.7	9.5	9.7	16.7	14.9	15.7
22	3.1	2.5	2.8	5.3	4.7	5.1	9.5	8.7	9.1	17.1	15.4	16.0
23	3.6	2.8	3.1	5.5	4.5	4.9	9.5	8.6	9.0	17.3	16.3	16.7
24	3.4	3.1	3.2	6.2	4.8	5.4	10.6	9.3	9.8	17.3	15.2	16.2
25	3.4	3.1	3.2	6.4	5.5	6.0	10.7	10.0	10.3	18.1	16.7	17.3
26	3.6	2.8	3.2	6.4	5.6	6.0	10.6	10.0	10.2	18.6	17.6	18.1
27	3.6	3.1	3.4	6.7	5.8	6.1	11.7	10.3	10.7	19.9	18.1	18.7
28	3.8	3.1	3.5	7.0	6.2	6.6	12.4	11.2	11.8	20.2	19.7	19.9
29	3.8	3.1	3.5	7.5	6.1	6.7	12.0	10.9	11.2	19.7	18.4	19.0
30	3.9	3.3	3.6	7.6	6.9	7.2	12.4	11.4	11.8	18.8	18.1	18.4
31	3.6	3.3	3.5	---	---	---	12.9	11.7	12.3	---	---	---
MONTH	3.9	2.0	3.0	7.6	3.1	4.8	12.9	6.7	9.2	20.2	12.1	14.9
DAY	JULY			AUGUST			SEPTEMBER			OCTOBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.3	17.8	18.0	22.5	21.2	21.8	21.8	21.2	21.5	15.5	15.1	15.3
2	18.4	17.6	17.9	22.2	21.3	21.7	21.8	20.8	21.3	15.1	14.6	14.7
3	18.4	18.3	18.4	22.2	21.0	21.6	21.3	20.8	21.1	14.6	14.4	14.5
4	18.4	18.1	18.4	22.0	21.2	21.5	21.2	20.3	20.7	14.9	14.4	14.6
5	18.4	17.9	18.2	21.5	20.7	21.1	20.7	20.2	20.4	14.9	14.4	14.7
6	18.9	17.9	18.4	21.2	20.5	20.8	20.5	19.9	20.1	15.1	14.6	14.8
7	19.1	18.4	18.8	21.3	20.3	20.8	20.0	19.4	19.7	15.1	14.7	14.9
8	19.1	17.9	18.7	21.2	20.3	20.7	19.7	19.1	19.3	---	---	---
9	19.4	18.4	18.9	21.2	20.2	20.7	19.4	18.7	19.1	---	---	---
10	20.0	18.9	19.4	21.3	20.5	20.9	19.4	18.7	19.0	---	---	---
11	20.2	19.2	19.7	21.5	20.7	21.0	19.2	18.6	18.9	---	---	---
12	21.0	19.9	20.3	21.7	20.5	21.1	19.5	18.7	19.1	---	---	---
13	22.3	21.0	21.6	21.8	20.8	21.3	19.7	19.1	19.4	---	---	---
14	22.8	22.3	22.5	21.8	21.0	21.4	20.0	19.2	19.6	---	---	---
15	23.2	22.2	22.7	22.0	21.0	21.4	19.9	19.4	19.7	---	---	---
16	23.3	22.8	23.1	22.0	21.0	21.4	19.7	19.4	19.4	---	---	---
17	23.5	22.7	23.1	22.0	20.8	21.4	19.4	18.7	19.1	---	---	---
18	23.7	23.0	23.3	21.8	20.8	21.3	18.7	18.2	18.5	---	---	---
19	24.0	23.2	23.6	21.7	20.8	21.2	18.2	17.8	18.0	---	---	---
20	23.7	23.3	23.5	21.8	20.7	21.1	17.9	17.4	17.7	---	---	---
21	23.5	23.0	23.3	21.5	20.7	21.0	17.6	17.0	17.3	---	---	---
22	23.7	22.8	23.3	21.7	20.5	21.0	17.4	16.8	17.1	---	---	---
23	23.7	23.2	23.4	21.8	20.5	21.1	17.4	16.8	17.1	---	---	---
24	24.0	23.2	23.6	21.5	20.8	21.1	17.4	16.8	17.1	---	---	---
25	24.0	23.5	23.8	21.8	20.7	21.2	17.4	16.8	17.1	---	---	---
26	24.2	23.5	23.8	21.8	20.7	21.2	17.1	16.8	17.0	---	---	---
27	24.2	23.5	23.8	22.0	20.8	21.4	17.0	16.6	16.8	---	---	---
28	23.9	23.3	23.6	22.5	21.2	21.8	17.0	16.3	16.6	---	---	---
29	23.3	22.8	23.1	22.0	21.3	21.6	16.5	15.9	16.2	---	---	---
30	22.8	22.3	22.6	22.3	21.0	21.6	15.9	15.4	15.7	---	---	---
31	22.3	21.7	22.0	22.2	21.2	21.6	---	---	---	---	---	---
MONTH	24.2	17.6	21.4	22.5	20.2	21.3	21.8	15.4	18.7	---	---	---

SPOKANE RIVER BASIN

12433000 SPOKANE RIVER AT LONG LAKE, WA

LOCATION.--Lat 47°50'12", long 117°50'25", NW¹/₄ SW¹/₄ sec.13, T.27 N., R.39 E., Lincoln County, Washington, 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 September 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
NOV 08...	1600	3340	222	8.0	9.8	10.7	96	23.0	9.47	--	.22	--	.018
JAN 30...	1500	7980	111	7.5	.7	3.6	44	11.0	4.08	E.009	.17	.669	.026
APR 03...	1420	11100	110	7.9	7.2	6.0	43	10.7	3.87	<.015	.19	.916	.024
APR 26...	1530	24600	73	7.7	9.1	6.9	28	7.14	2.44	<.015	.27	.200	.009
JUL 15...	1230	4640	100	7.9	27.1	19.1	41	10.2	3.79	E.013	E.09	.328	<.004
SEP 11...	1140	3160	215	8.0	27.0	18.4	98	23.8	9.46	<.015	.13	.976	.006

Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV 08...	.023	<.04	E.03	40	<10	.27	<1	30	16.6	5	8
JAN 30...	E.039	.06	.08	100	<10	<.08	<1	7	2.4	37	36
APR 03...	.044	.06	.10	230	11	.11	1	13	5.9	35	41
APR 26...	.024	.10	.19	150	23	.49	3	34	2.1	46	64
JUL 15...	.007	.04	.06	40	E5	.10	<1	8	.4	14	19
SEP 11...	.011	E.03	.06	40	E6	E.08	<1	24	1.7	6	6

< Less than
E Estimated value