



Figure 11. Schematic showing gaging stations in Spokane River basin.



Middle Fork Salmon River near Cape Horn, Idaho

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, Prichard quad., Hydrologic Unit 17010301, in Idaho Panhandle National Forests, on left bank 0.1 mi downstream from Uranus Creek, 0.5 mi upstream from Shoshone Creek, 3.5 mi north of Prichard, and 200.0 mi upstream from mouth of Spokane River.

DRAINAGE AREA.--335 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 fair. 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)
Apr. 14	2215	*3,530	4.79	No peaks greater than base discharge.			

Minimum daily, 65 ft³/s Nov. 6.

DAY	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	e100	231	e170	690	539	2540	1420	1580	275	119	121
2	69	e90	213	e180	526	514	2120	1570	1390	263	117	117
3	69	e85	233	e170	436	487	1900	1710	1190	250	117	115
4	67	e80	280	e150	396	481	2030	1690	1040	245	127	112
5	67	e75	285	e110	348	454	2570	1530	924	237	118	109
6	67	e65	445	e70	310	416	2910	1320	927	224	117	106
7	67	e80	655	e110	299	379	3030	1150	834	233	146	104
8	70	e110	498	e150	275	362	3050	1120	737	230	146	100
9	73	e120	388	e160	261	434	2890	1080	677	213	126	99
10	73	135	e300	e170	249	598	2530	983	649	205	117	98
11	72	195	e280	e170	e220	789	2270	927	635	195	112	112
12	81	204	264	e170	e190	893	2230	825	579	189	109	140
13	100	125	248	e170	e200	951	2460	754	557	185	106	140
14	106	105	236	e160	e200	964	3160	696	528	182	104	180
15	94	97	212	e160	e220	948	3240	624	496	176	100	212
16	105	99	192	e170	228	942	2540	600	467	170	100	237
17	138	148	184	e180	236	960	2090	645	443	165	98	218
18	119	313	173	e180	344	1150	1820	597	419	165	96	264
19	97	515	e150	e180	512	1600	1630	581	401	165	100	271
20	92	462	e140	e180	558	1650	1520	622	385	164	98	227
21	125	320	e150	e180	539	1440	1430	633	366	162	95	194
22	135	e220	e150	e170	e480	1390	1320	765	352	153	100	172
23	107	e180	e140	e190	e460	1620	1280	895	335	147	119	159
24	95	e170	149	e200	e460	1900	1370	845	317	142	140	150
25	87	e160	164	e200	465	1980	1390	759	306	138	279	140
26	83	e150	159	e190	470	1940	1360	762	298	135	374	134
27	80	139	150	e180	506	1890	1560	1140	327	131	253	128
28	111	133	e140	e220	543	1760	1980	1270	291	130	194	123
29	239	191	e130	e300	551	1640	1740	1280	326	127	160	120
30	164	244	e120	e900	---	1660	1480	1270	293	124	141	117
31	e110	---	e110	905	---	2270	---	1530	---	122	129	---
TOTAL	3031	5110	7169	6795	11172	35001	63440	31593	18069	5642	4257	4519
MEAN	97.8	170	231	219	385	1129	2115	1019	602	182	137	151
MAX	239	515	655	905	690	2270	3240	1710	1580	275	374	271
MIN	67	65	110	70	190	362	1280	581	291	122	95	98
AC-FT	6010	10140	14220	13480	22160	69420	125800	62660	35840	11190	8440	8960
CFSM	0.29	0.51	0.69	0.65	1.15	3.37	6.31	3.04	1.80	0.54	0.41	0.45
IN.	0.34	0.57	0.80	0.75	1.24	3.89	7.04	3.51	2.01	0.63	0.47	0.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)												
MEAN	139	326	501	499	697	923	2091	2080	683	223	124	106
MAX	449	1273	1777	2601	2485	2725	3711	4447	2238	399	201	170
(WY)	1969	1996	1996	1974	1996	1972	1956	1997	1974	1971	1993	1968
MIN	69.4	71.0	75.0	71.7	81.6	188	794	411	184	104	68.6	57.6
(WY)	1988	1962	1953	1979	2001	1955	2001	1992	1992	1977	1973	2001

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1951 - 2004
ANNUAL TOTAL	196097	195798	
ANNUAL MEAN	537	535	
HIGHEST ANNUAL MEAN			1267
LOWEST ANNUAL MEAN			223
HIGHEST DAILY MEAN	7080	Mar 23	3240
LOWEST DAILY MEAN	61	Sep 7	65
ANNUAL SEVEN-DAY MINIMUM	63	Sep 1	68
ANNUAL RUNOFF (AC-FT)	389000		388400
ANNUAL RUNOFF (CFSM)	1.60		1.60
ANNUAL RUNOFF (INCHES)	21.78		21.74
10 PERCENT EXCEEDS	1580		1560
50 PERCENT EXCEEDS	220		222
90 PERCENT EXCEEDS	72		100

e Estimated

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, Cataldo quad., Hydrologic Unit 17010301, on left bank 200 ft downstream from county road bridge, 0.9 mi upstream from South Fork, 3.7 mi downstream from Little North Fork, and 168.7 mi upstream from mouth of Spokane River.

DRAINAGE AREA.--895 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)
Apr. 15	0600	*7,450	*64.39	No peaks greater than base discharge.			
Minimum daily, 169 ft ³ /s Nov. 7.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	276	948	444	2720	2080	6210	3190	4390	799	325	361
2	174	254	833	456	2090	1970	5260	3430	3920	763	318	341
3	172	241	856	448	1730	1850	4630	3900	3340	718	314	334
4	172	231	1040	394	1500	1790	4780	4050	2900	694	320	322
5	171	211	1030	283	1310	1670	5800	3780	2590	673	317	310
6	170	177	1440	189	1160	1550	6500	3320	2540	640	312	299
7	170	169	2140	279	1080	1390	6760	2870	2350	659	357	289
8	171	187	1820	402	993	1320	6800	2730	2090	648	377	281
9	176	210	1430	437	913	1520	6500	2710	1920	610	346	275
10	179	226	1170	441	850	2090	5760	2510	1840	589	319	270
11	177	454	1000	447	806	2750	5160	2430	1840	562	302	284
12	189	514	878	449	752	2990	4960	2210	1720	537	291	353
13	233	406	812	436	690	3080	5310	2010	1670	519	282	374
14	262	334	786	426	693	3090	6520	1890	1630	504	274	430
15	248	294	693	435	737	3000	7140	1720	1530	487	268	531
16	274	288	616	454	721	2930	5850	1650	1440	470	264	609
17	337	460	574	469	750	2990	4810	1680	1380	461	259	618
18	316	834	542	474	1120	3570	4150	1660	1300	460	253	714
19	269	1350	509	478	1940	4750	3680	1680	1240	459	254	826
20	244	1400	471	479	2150	4850	3440	1760	1190	457	260	707
21	297	1080	496	478	2060	4150	3240	1830	1140	448	250	600
22	328	796	495	469	1920	3840	2990	2210	1080	427	261	524
23	291	615	483	489	1790	4320	2840	2630	1030	406	314	474
24	258	534	478	517	1730	5050	2960	2550	988	391	355	443
25	235	487	516	516	1710	5250	3030	2300	950	381	637	413
26	220	443	535	495	1750	5120	2980	2190	916	369	1290	390
27	211	405	512	484	1900	5030	3290	2900	928	361	881	371
28	236	372	500	574	2080	4720	4230	3420	874	353	639	355
29	463	622	474	987	2140	4310	4060	3510	897	345	512	342
30	453	1040	410	3120	---	4240	3460	3420	864	339	438	332
31	339	---	374	3680	---	5440	---	4090	---	332	390	---
TOTAL	7609	14910	24861	20129	41785	102700	143100	82230	52487	15861	11979	12772
MEAN	245	497	802	649	1441	3313	4770	2653	1750	512	386	426
MAX	463	1400	2140	3680	2720	5440	7140	4090	4390	799	1290	826
MIN	170	169	374	189	690	1320	2840	1650	864	332	250	270
AC-FT	15090	29570	49310	39930	82880	203700	283800	163100	104100	31460	23760	25330
CFSM	0.27	0.56	0.90	0.73	1.61	3.70	5.33	2.96	1.95	0.57	0.43	0.48
IN.	0.32	0.62	1.03	0.84	1.74	4.27	5.95	3.42	2.18	0.66	0.50	0.53

SPOKANE RIVER BASIN

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	380	948	1493	1456	2069	2647	5357	5072	1954	658	349	295
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 2003 CALENDAR YEAR					FOR 2004 WATER YEAR			WATER YEARS 1911 - 2004			
ANNUAL TOTAL	523590					530423						
ANNUAL MEAN	1434					1449			1887			
HIGHEST ANNUAL MEAN									3281			
LOWEST ANNUAL MEAN									599			
HIGHEST DAILY MEAN	16400					Feb 1			50000			
LOWEST DAILY MEAN	164					Sep 6			108			
ANNUAL SEVEN-DAY MINIMUM	168					Sep 1			114			
ANNUAL RUNOFF (AC-FT)	1039000					1052000			1367000			
ANNUAL RUNOFF (CFSM)	1.60					1.62			2.11			
ANNUAL RUNOFF (INCHES)	21.76					22.05			28.64			
10 PERCENT EXCEEDS	3730					3910			5010			
50 PERCENT EXCEEDS	720					692			839			
90 PERCENT EXCEEDS	191					262			249			

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 2003 TO SEPTEMBER 2004

Date	Time	Instan- taneous dis- charge, cfs (00061)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unfltrd uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)
OCT													
09...	1220	182	7.0	52	12.0	11.9	24	5.91	2.19	<.010	<.016	E.003	E.003
DEC													
06...	0920	1300	6.7	45	2.0	3.8	20	4.83	1.99	<.010	.025	E.003	E.004
JAN													
22...	0940	476	6.8	45	1.0	2.5	21	5.22	2.01	<.010	<.016	E.002	<.004
APR													
01...	1230	6250	7.2	31	10.0	4.0	14	3.36	1.34	<.010	<.016	.005	.014
MAY													
05...	1300	3780	7.4	33	19.0	8.0	14	3.47	1.31	<.010	<.016	E.003	.005
JUN													
07...	1100	2360	7.2	38	15.0	9.0	17	4.17	1.55	<.010	<.016	E.003	.006
JUL													
26...	1145	371	7.6	54	26.0	17.5	24	6.03	2.09	<.010	E.010	E.004	E.003
SEP													
08...	1100	278	7.4	54	16.0	13.5	24	5.95	2.17	<.010	E.008	E.002	E.003

Date	Total nitro- gen, wat unfltrd by anal- ysis, mg/L (62855)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recover- able, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover- able, ug/L (01051)	Mangan- ese, water, fltrd, ug/L (01056)	Mangan- ese, water, unfltrd recover- able, ug/L (01055)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)
OCT													
09...	.07	<.04	<.04	6.9	E8.0	<.08	.08	1.0	1.1	2.8	2.1	2	.98
DEC													
06...	.07	<.04	E.02	7.4	23.5	E.08	.18	.7	1.5	3.6	3.9	1	3.5
JAN													
22...	<.03	<.04	<.04	E4.6	9.3	<.08	E.04	.5	.8	2.8	2.3	.0	.00
APR													
01...	.09	E.02	E.03	7.0	172	E.08	1.2	1.2	7.2	4.2	5.2	10	169
MAY													
05...	.03	<.04	E.02	7.4	51.3	.09	.4	1.1	2.1	4.7	5.2	2	20
JUN													
07...	<.03	E.03	E.02	10.3	31.0	.17	.2	1.2	1.6	6.9	6.0	1	6.4
JUL													
26...	.05	<.04	<.04	E5.6	19.2	.17	.10	1.3	1.9	2.9	2.6	.0	.00
SEP													
08...	.07	<.04	<.04	7.7	22.0	E.04	.09	1.2	.8	2.5	2.5	1	.75

< 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, Kellogg East quad., Hydrologic Unit 17010302, on left bank 5 ft downstream from county road bridge at Elizabeth Park, 0.1 mi downstream from Montgomery Creek, 1.5 mi downstream from Elk Creek School, 1.5 mi upstream from Kellogg, and at mile 9.1

WATER-DISCHARGE RECORDS

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

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,600 ft³/s Feb. 9, 1996, gage height, 35.50 ft; minimum, 36 ft³/s Jan. 6, 2004, gage height, 23.56 ft.

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)
May 23	0545	*1,110	*27.47	No peaks greater than base discharge.			

Minimum, 36 ft³/s Jan. 6, gage height, 23.56 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	68	110	88	242	267	546	592	743	238	102	106
2	60	67	112	88	199	249	479	709	694	222	100	104
3	59	68	135	86	176	231	460	869	664	214	100	102
4	59	67	133	75	160	224	507	921	657	207	101	100
5	59	59	136	55	145	210	619	869	662	202	99	97
6	59	58	252	48	136	193	700	776	725	192	102	94
7	60	62	227	78	133	179	759	708	639	195	130	92
8	62	66	170	86	126	186	777	741	580	185	107	89
9	64	65	139	88	120	242	712	735	536	177	100	88
10	62	71	125	93	115	334	644	676	523	174	96	87
11	63	117	114	90	112	370	615	712	511	168	93	95
12	74	94	109	86	108	367	638	612	476	158	91	98
13	84	80	109	85	106	361	730	550	463	152	89	99
14	74	75	122	86	109	352	931	498	441	147	87	122
15	74	72	108	89	108	336	886	460	417	142	86	127
16	88	76	101	95	106	327	734	478	396	139	86	184
17	86	98	98	94	115	333	625	490	378	137	86	148
18	73	153	94	94	221	376	552	531	365	137	85	172
19	69	158	92	94	328	460	496	630	354	139	85	163
20	68	133	92	92	305	427	471	687	341	135	85	147
21	68	110	92	90	271	390	449	705	325	129	85	136
22	65	95	90	89	246	396	416	969	312	125	90	128
23	67	88	88	92	231	476	405	1060	301	121	103	123
24	66	87	93	95	233	566	421	955	289	119	119	118
25	65	84	103	94	246	538	421	821	277	116	167	113
26	64	82	100	91	265	510	439	790	283	113	315	108
27	64	78	97	90	286	487	543	884	277	112	173	104
28	90	77	96	96	293	436	692	904	265	110	144	101
29	107	121	92	121	284	404	628	874	264	107	128	99
30	80	127	80	343	---	422	574	825	244	105	118	97
31	70	---	88	320	---	562	---	784	---	104	110	---
TOTAL	2163	2656	3597	3211	5525	11211	17869	22815	13402	4721	3462	3441
MEAN	69.8	88.5	116	104	191	362	596	736	447	152	112	115
MAX	107	158	252	343	328	566	931	1060	743	238	315	184
MIN	59	58	80	48	106	179	405	460	244	104	85	87
AC-FT	4290	5270	7130	6370	10960	22240	35440	45250	26580	9360	6870	6830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2004, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	82.5	158	195	208	303	396	724	876	573	199	103	78.8						
MAX	153	580	865	513	1307	722	1135	2026	1230	393	147	115						
(WY)	1996	1996	1996	1997	1996	1995	2000	1997	2002	1999	1999	2004						
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 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1987 - 2004
ANNUAL TOTAL	94102	94073	
ANNUAL MEAN	258	257	320
HIGHEST ANNUAL MEAN			564
LOWEST ANNUAL MEAN			153
HIGHEST DAILY MEAN	1430	1060	7400
LOWEST DAILY MEAN	58	48	36
ANNUAL SEVEN-DAY MINIMUM	59	59	45
ANNUAL RUNOFF (AC-FT)	186700	186600	232000
10 PERCENT EXCEEDS	636	658	783
50 PERCENT EXCEEDS	129	132	156
90 PERCENT EXCEEDS	66	74	67

SPOKANE RIVER BASIN

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

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instan- taneous dis- charge, cfs (00061)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	
OCT	08...	1205	61	7.7	166	13.0	10.6	71	18.9	5.86	<.010	.091	<.004	<.004
DEC	06...	0830	236	7.2	142	5.5	4.2	57	14.9	4.70	.010	.221	.005	.012
JAN	21...	0830	97	6.3	157	1.0	3.2	66	17.6	5.31	E.009	.223	E.003	E.002
MAR	31...	0935	596	7.0	90	6.0	4.8	38	10.2	3.03	<.010	.081	E.003	.013
MAY	04...	1045	934	7.2	56	19.0	6.5	23	6.38	1.76	<.010	.032	<.004	.009
JUN	10...	0830	510	7.2	81	15.0	8.3	33	9.14	2.58	<.010	.055	<.004	.005
JUL	27...	0820	115	7.7	138	15.5	13.0	58	15.8	4.55	<.010	.072	<.004	E.003
SEP	07...	0850	93	7.4	155	13.0	11.5	62	17.1	4.82	<.010	.098	<.004	E.004

Date	Total nitro- gen, wat unf by anal ysis, mg/L (62855)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recover- able, ug/L (01045)	Lead, water, unfltrd recover- able, ug/L (01049)	Lead, water, unfltrd recover- able, ug/L (01051)	Mangan- ese, water, unfltrd recover- able, ug/L (01056)	Mangan- ese, water, unfltrd recover- able, ug/L (01055)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)	
OCT	08...	.16	7.14	6.91	14.0	17.2	3.70	5.62	30.1	28.6	936	894	2	.33
DEC	06...	.37	5.81	6.06	9.2	271	1.66	28.0	33.8	78.6	962	944	9	5.7
JAN	21...	.27	6.01	6.29	7.8	25.5	2.13	4.5	32.7	37.8	991	953	1	.26
MAR	31...	.17	3.70	4.21	9.0	564	2.86	65.5	20.3	97.1	576	649	12	19
MAY	04...	.09	1.89	2.17	7.6	248	1.30	33.6	13.3	59.6	300	317	10	25
JUN	10...	.06	3.06	3.04	7.4	44.2	2.45	6.9	19.8	21.4	494	461	2	2.8
JUL	27...	.10	6.08	5.90	10.5	32.6	4.21	7.5	26.9	29.0	867	830	.0	.00
SEP	07...	.15	7.02	7.09	10.1	33.6	3.17	6.3	36.6	36.4	974	960	1	.25

< 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°08'17"(revised), (NAD83), in SE¹/₄NE¹/₄SE¹/₄, sec.36, T.49 N., R.2 E., Shoshone County, Kellogg West quad., Hydrologic Unit 17010302, on left bank 1,200 ft downstream from Bunker Ave bridge, 0.3 miles downstream from Jackass Creek, 1.0 mi northwest of Kellogg city center, and at mile 6.7.

DRAINAGE AREA.--194 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 FNU Sept. 5, 2001, Apr. 14, 2002; minimum recorded, <1 FNU on many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 22.5 °C Aug. 17; minimum, 0.0 °C many days during winter months.

SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 184 microsiemens/cm Jan. 6; minimum recorded daily mean, 60 microsiemens/cm May 4.

TURBIDITY: Maximum recorded, 400 FNU Jan. 30; minimum recorded, <1 FNU on many days during the year.

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

Temperature, water, degrees Celsius
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.4	9.6	4.3	1.6	4.8	3.5	1.5	0.6	3.4	2.1	6.2	3.2
2	15.9	9.5	5.3	3.2	5.5	4.6	1.9	0.7	3.1	1.2	6.5	3.2
3	15.9	8.9	5.0	2.9	5.3	3.1	1.6	0.0	3.7	1.8	3.8	2.1
4	15.6	9.1	3.8	1.0	3.1	1.9	0.7	0.0	4.2	2.8	4.6	2.6
5	15.2	9.3	3.4	0.0	5.0	3.1	0.0	0.0	4.2	2.4	4.0	2.5
6	15.7	9.6	3.8	0.0	4.9	3.8	0.0	0.0	3.5	1.4	4.9	2.2
7	13.3	11.3	4.0	0.1	4.0	3.2	0.0	0.0	3.8	2.6	6.6	3.2
8	13.2	9.4	5.2	2.0	3.7	3.1	1.5	0.0	3.6	2.5	9.1	4.4
9	12.0	9.3	5.2	2.2	3.4	2.3	2.9	1.5	4.6	2.6	5.9	3.9
10	10.3	7.7	5.4	4.7	3.6	2.4	3.4	2.1	5.0	2.8	7.1	3.6
11	10.2	6.5	5.6	4.9	3.8	3.2	3.7	2.3	4.5	1.6	6.7	2.9
12	11.3	8.9	6.2	4.8	4.4	3.2	3.1	2.1	3.7	0.5	6.6	3.3
13	11.5	8.7	5.3	3.8	4.1	3.3	3.8	2.0	3.6	0.0	6.3	3.1
14	10.5	7.7	5.0	3.6	3.5	2.2	4.2	2.9	2.5	0.6	6.8	3.3
15	9.6	7.6	5.3	3.7	4.2	3.1	3.4	2.6	3.7	2.2	6.9	3.1
16	9.4	8.0	6.2	5.2	3.7	2.4	4.8	3.1	4.3	2.3	5.7	3.8
17	14.2	9.2	5.7	5.1	4.4	3.3	3.8	2.7	4.6	3.3	7.1	4.5
18	12.9	8.5	6.5	5.1	3.3	1.8	3.5	2.3	4.6	3.6	6.9	4.7
19	10.5	8.2	6.3	4.6	2.5	1.5	4.5	3.1	4.8	3.5	5.3	3.5
20	12.0	9.8	4.8	3.4	3.3	2.1	4.8	3.6	4.9	3.3	6.9	2.6
21	15.5	11.5	3.5	2.5	4.9	3.3	4.1	3.0	5.8	2.8	8.8	3.6
22	14.1	10.2	2.6	1.7	4.3	2.7	4.1	2.6	5.5	1.9	9.1	4.1
23	11.4	8.8	3.2	1.8	2.7	1.5	4.0	1.8	5.6	1.9	7.5	4.3
24	9.8	6.3	3.3	2.8	4.0	2.2	3.5	2.4	5.1	3.2	6.3	3.9
25	8.9	4.9	3.2	2.6	4.4	3.4	3.0	1.8	5.5	3.5	7.5	3.8
26	9.6	5.6	4.2	3.1	3.8	2.8	3.3	1.8	6.7	3.8	6.5	4.2
27	9.7	6.7	5.2	3.4	2.8	1.9	3.9	2.7	5.8	3.9	6.1	3.9
28	10.0	8.6	4.6	3.3	2.5	1.0	3.8	2.9	6.6	3.8	8.1	3.9
29	8.7	4.3	5.5	4.4	2.4	0.0	4.2	3.5	6.1	4.1	9.6	3.8
30	4.4	1.9	5.6	3.8	1.1	0.0	4.1	2.4	---	---	9.8	4.1
31	4.6	1.0	---	---	2.0	0.7	2.8	1.9	---	---	6.7	5.0
MONTH	15.9	1.0	6.5	0.0	5.5	0.0	4.8	0.0	6.7	0.0	9.8	2.1

SPOKANE RIVER BASIN

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

Turbidity, water, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22	12	4	<1	5	<1	2	<1	9	1	4	<1
2	29	13	2	<1	130	<1	2	<1	6	<1	7	<1
3	40	5	3	<1	40	<1	3	<1	6	<1	3	<1
4	23	1	<1	<1	5	<1	4	<1	14	<1	7	<1
5	3	1	3	<1	26	<1	<1	<1	9	<1	6	<1
6	5	<1	5	<1	38	7	<1	<1	8	<1	2	<1
7	2	<1	3	<1	7	1	<1	<1	3	<1	4	<1
8	6	<1	4	<1	7	<1	6	<1	1	<1	2	<1
9	3	1	3	<1	9	<1	69	<1	6	<1	3	<1
10	4	2	30	<1	6	<1	27	<1	5	<1	6	2
11	4	2	27	3	3	<1	4	<1	3	<1	16	2
12	9	2	8	<1	7	<1	3	<1	<1	<1	6	1
13	24	3	8	<1	6	<1	1	<1	2	<1	83	1
14	37	1	5	<1	4	1	3	<1	12	<1	3	<1
15	22	4	2	<1	9	<1	5	<1	32	<1	3	<1
16	23	6	5	<1	2	<1	3	<1	18	<1	3	<1
17	22	9	150	<1	4	<1	<1	<1	25	<1	4	<1
18	18	7	50	<1	4	<1	5	<1	34	6	6	1
19	15	3	37	4	1	<1	6	<1	9	3	14	4
20	18	3	9	1	11	<1	6	<1	8	1	6	2
21	6	1	5	<1	10	<1	3	<1	5	<1	4	1
22	10	1	4	<1	7	<1	5	<1	5	<1	4	<1
23	3	<1	1	<1	2	<1	3	<1	4	<1	120	2
24	8	<1	9	<1	15	<1	8	<1	49	<1	15	5
25	15	1	3	<1	27	<1	12	<1	16	<1	14	2
26	4	<1	8	<1	3	<1	<1	<1	29	2	8	2
27	10	<1	2	<1	2	<1	3	<1	20	1	30	2
28	24	<1	8	<1	2	<1	11	<1	5	1	6	1
29	100	<1	25	4	2	<1	16	3	6	<1	6	1
30	2	<1	170	<1	4	<1	440	7	---	---	5	1
31	2	<1	---	---	4	<1	9	2	---	---	10	3
MONTH	100	1	170	1	130	1	440	1	49	1	120	1

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	110	<1	2	<1	45	<1	10	<1	<1	<1	22	<1
2	4	1	6	<1	2	<1	3	<1	<1	<1	3	<1
3	5	<1	14	4	2	<1	2	<1	<1	<1	2	<1
4	4	1	10	4	1	<1	9	<1	<1	<1	4	<1
5	12	4	6	2	1	<1	2	<1	<1	<1	4	<1
6	11	6	6	2	4	<1	1	<1	2	<1	2	<1
7	13	6	3	<1	5	<1	22	<1	4	<1	1	<1
8	48	4	10	<1	1	<1	2	<1	<1	<1	72	<1
9	10	2	6	<1	1	<1	2	<1	<1	<1	3	<1
10	6	2	4	<1	4	<1	7	<1	<1	<1	6	<1
11	5	1	12	1	73	<1	1	<1	<1	<1	13	<1
12	6	2	5	<1	1	<1	80	<1	<1	<1	11	<1
13	19	3	2	<1	100	<1	3	<1	1	<1	5	<1
14	57	10	7	<1	5	<1	---	---	<1	<1	34	2
15	22	5	1	<1	310	<1	---	---	<1	<1	12	<1
16	14	3	3	<1	17	<1	---	---	<1	<1	28	<1
17	12	4	2	<1	4	<1	---	---	<1	<1	3	<1
18	18	4	10	<1	3	<1	---	---	<1	<1	71	<1
19	18	4	190	2	4	<1	---	---	<1	<1	2	<1
20	57	4	17	1	4	<1	---	---	<1	<1	7	<1
21	32	2	31	1	3	<1	---	---	<1	<1	2	<1
22	26	<1	31	5	3	<1	---	---	2	<1	4	<1
23	7	<1	19	3	5	<1	---	---	<1	<1	2	<1
24	3	<1	6	1	4	<1	---	---	5	<1	6	<1
25	2	<1	50	<1	6	<1	---	---	22	<1	3	<1
26	3	<1	17	<1	35	<1	---	---	24	<1	13	<1
27	8	<1	8	1	52	<1	---	---	2	<1	12	<1
28	7	2	11	1	110	<1	<1	<1	<1	<1	6	<1
29	4	<1	36	<1	37	<1	<1	<1	<1	<1	2	<1
30	4	<1	2	<1	6	<1	<1	<1	22	<1	2	<1
31	---	---	6	<1	---	---	<1	<1	64	<1	---	---
MONTH	110	1	190	1	310	1	---	---	64	1	72	1

< 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°10'31"(revised), (NAD83), in SE¹/₄NW¹/₄SW¹/₄ sec.35, T.49 N., R.2 E., Shoshone County, Kellogg West quad., Hydrologic Unit 17010302, on left bank at county road bridge, 0.2 mi downstream from Government Gulch, 0.3 miles north of Smelterville, and at mile 5.1.

DRAINAGE AREA.--202 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, 23.5 °C July 21-22, 27, Aug. 9, 2003, July 24, 2004; minimum, 0.0 °C many days during winter months.

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

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

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 23.5 °C July 24; minimum, 0.0 °C Nov. 5-7, Dec. 30, Jan. 4-8.

SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 401 microsiemens/cm Oct. 2; minimum recorded daily mean, 76 microsiemens/cm Apr. 15.

TURBIDITY: Maximum recorded, 370 FNU Jan. 9; minimum recorded, <1 NTU on many days during the year.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instan- taneous dis- charge, cfs (00061)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unfltrd uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)
OCT													
08...	1440	63	7.3	317	20.5	12.3	150	37.8	13.6	<.010	.068	.018	.041
DEC													
06...	1200	263	7.2	184	5.0	4.4	74	19.3	6.33	E.008	.236	.008	.070
JAN													
21...	1200	103	7.1	388	2.0	4.0	180	45.2	16.7	.016	.214	.013	.027
MAR													
31...	1250	640	7.4	113	11.0	6.2	46	11.8	4.06	<.010	.075	.005	.018
MAY													
04...	1400	944	7.3	73	22.0	8.8	30	7.98	2.41	<.010	.029	E.003	.012
JUN													
10...	1315	567	7.3	103	15.5	9.1	43	11.9	3.33	<.010	.049	.005	.011
JUL													
27...	1150	123	7.5	197	27.0	17.4	92	24.2	7.60	<.010	.058	.013	.021
SEP													
07...	1200	101	7.4	208	23.0	14.3	88	24.0	6.77	E.006	.074	.012	.023

Date	Total nitro- gen, wat unfltrd by anal ysis, mg/L (62855)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recover- able, ug/L (01045)	Lead, water, unfltrd recover- able, ug/L (01049)	Lead, water, unfltrd recover- able, ug/L (01051)	Mangan- ese, water, fltrd, ug/L (01056)	Mangan- ese, water, unfltrd recover- able, ug/L (01055)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)
OCT													
08...	.17	10.6	10.5	99.7	230	9.83	17.8	1410	1350	1230	1270	5	.85
DEC													
06...	.48	13.3	14.8	18.4	859	2.44	79.5	344	465	1240	1310	20	14
JAN													
21...	.27	13.3	13.1	86.6	169	3.34	8.9	2380	2460	1470	1500	4	1.1
MAR													
31...	.17	4.72	5.32	31.8	389	4.88	44.8	215	299	713	795	7	12
MAY													
04...	.08	2.44	2.81	19.2	302	2.56	38.1	183	242	394	415	8	20
JUN													
10...	.06	4.09	4.08	33.5	79.7	3.33	9.0	148	142	620	583	1	1.5
JUL													
27...	.10	7.66	7.49	75.6	136	5.83	9.4	254	243	1110	1040	1	.33
SEP													
07...	.13	9.13	9.28	59.5	140	4.78	10.2	253	254	1200	1180	1	.27

< Less than

E Estimated value

SPOKANE RIVER BASIN

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

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	369	226	238	239	211	180	131	108	104	165	250	250
2	401	326	252	243	232	193	130	98	107	178	236	262
3	371	365	244	269	232	206	125	86	110	185	232	236
4	290	330	252	298	246	220	119	83	105	187	253	237
5	286	349	255	359	258	222	105	85	96	189	252	241
6	318	331	209	398	250	234	100	90	92	195	247	239
7	335	272	212	320	253	238	93	104	97	193	225	226
8	348	257	239	303	264	237	95	88	98	198	241	232
9	353	250	258	290	252	215	100	82	104	202	237	249
10	363	277	268	257	234	180	108	84	112	204	238	243
11	367	247	259	253	226	164	112	86	115	205	238	260
12	349	250	261	244	222	159	110	97	122	187	221	256
13	297	261	243	247	236	170	102	104	121	203	243	258
14	290	222	225	262	259	172	90	113	119	173	258	241
15	327	303	232	271	264	176	76	121	130	177	263	232
16	314	309	247	283	273	190	103	121	136	182	261	209
17	297	302	272	288	273	174	112	119	141	200	258	231
18	276	257	279	290	221	155	118	114	143	205	264	218
19	280	250	290	287	180	139	122	107	147	223	260	225
20	325	271	294	309	186	148	125	101	150	231	261	233
21	329	262	296	327	200	158	121	97	154	215	272	237
22	346	246	304	328	211	147	125	83	159	231	271	225
23	322	248	305	278	216	130	126	89	151	233	242	240
24	367	270	304	244	202	132	129	93	139	233	226	224
25	379	284	294	238	186	125	131	98	140	235	160	241
26	373	286	292	239	189	137	130	101	139	242	168	247
27	394	252	293	248	181	139	117	90	136	222	197	255
28	218	253	274	269	171	148	93	87	146	255	227	261
29	170	229	247	259	173	155	103	92	144	276	241	265
30	188	215	261	185	---	153	109	96	154	252	241	268
31	197	---	245	187	---	131	---	100	---	249	258	---
MEAN	317	273	263	275	224	172	112	97	127	210	240	241
MAX	401	365	305	398	273	238	131	121	159	276	272	268
MIN	170	215	209	185	171	125	76	82	92	165	160	209

WTR YR 2004 MEAN 213 MAX 401 MIN 76

Turbidity, water, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1	<1	1	<1	9	<1	8	<1	2	<1	4	<1
2	2	<1	64	<1	5	<1	6	<1	3	<1	3	<1
3	1	<1	5	<1	27	<1	2	<1	<1	<1	6	<1
4	<1	<1	43	<1	3	<1	8	<1	10	<1	5	<1
5	2	<1	58	<1	24	<1	16	<1	2	<1	4	<1
6	<1	<1	8	<1	32	6	4	<1	10	<1	5	<1
7	3	<1	2	<1	6	<1	10	<1	3	<1	3	<1
8	3	<1	7	<1	3	<1	4	<1	<1	<1	5	1
9	2	<1	7	<1	4	<1	370	<1	4	<1	5	2
10	2	<1	17	<1	4	<1	270	<1	1	<1	72	4
11	<1	<1	21	3	<1	<1	8	<1	1	<1	130	2
12	7	<1	3	<1	3	<1	7	<1	5	<1	---	---
13	12	<1	4	<1	6	<1	6	<1	<1	<1	---	---
14	22	<1	2	<1	17	<1	4	<1	1	<1	---	---
15	17	<1	2	<1	2	<1	63	<1	4	<1	---	---
16	6	1	4	<1	<1	<1	6	<1	12	<1	---	---
17	4	<1	14	<1	5	<1	5	<1	12	<1	---	---
18	2	<1	32	<1	5	<1	11	<1	38	8	---	---
19	3	<1	37	3	<1	<1	8	<1	14	3	---	---
20	9	<1	8	<1	<1	<1	1	<1	5	<1	---	---
21	6	<1	60	<1	5	<1	5	<1	3	<1	---	---
22	2	<1	60	<1	5	<1	5	<1	2	<1	---	---
23	3	<1	3	<1	1	<1	3	<1	2	<1	---	---
24	2	<1	<1	<1	18	<1	7	<1	27	<1	---	---
25	2	<1	<1	<1	10	<1	5	<1	6	<1	---	---
26	2	<1	2	<1	1	<1	<1	<1	11	1	---	---
27	5	<1	2	<1	<1	<1	7	<1	10	1	---	---
28	29	<1	2	<1	22	<1	10	<1	5	1	---	---
29	140	<1	16	2	11	<1	25	3	3	<1	---	---
30	8	<1	15	<1	4	<1	89	10	---	---	---	---
31	2	<1	---	---	9	<1	11	2	---	---	---	---
MONTH	140	1	64	1	32	1	370	1	38	1	---	---

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

SPOKANE RIVER BASIN

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

Turbidity, water, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---	7	3	1	<1
2	---	---	---	---	---	---	---	---	7	2	1	<1
3	---	---	---	---	---	---	---	---	8	6	3	<1
4	---	---	---	---	---	---	---	---	12	8	1	<1
5	---	---	---	---	---	---	---	---	12	3	2	<1
6	---	---	---	---	---	---	---	---	49	3	2	<1
7	---	---	---	---	---	---	---	---	31	4	3	<1
8	---	---	---	---	---	---	---	---	---	---	2	<1
9	---	---	---	---	---	---	---	---	---	---	3	<1
10	---	---	---	---	---	---	---	---	---	---	3	<1
11	---	---	---	---	---	---	---	---	---	---	8	<1
12	---	---	---	---	---	---	---	---	---	---	7	1
13	---	---	---	---	---	---	---	---	---	---	14	1
14	---	---	---	---	---	---	---	---	---	---	22	2
15	---	---	---	---	---	---	---	---	---	---	19	2
16	---	---	---	---	---	---	---	---	---	---	110	3
17	---	---	---	---	2	1	---	---	---	---	13	2
18	---	---	---	---	3	<1	---	---	---	---	130	5
19	---	---	---	---	6	2	---	---	---	---	11	1
20	---	---	---	---	---	---	---	---	---	---	4	1
21	---	---	---	---	---	---	---	---	---	---	13	1
22	---	---	---	---	---	---	---	---	---	---	10	1
23	6	1	---	---	---	---	---	---	---	---	10	<1
24	3	2	---	---	---	---	---	---	---	---	3	1
25	15	2	---	---	---	---	---	---	---	---	2	1
26	5	3	---	---	---	---	---	---	---	---	2	1
27	15	4	---	---	---	---	---	---	---	---	4	1
28	270	10	---	---	---	---	5	<1	---	---	8	1
29	---	---	---	---	---	---	2	<1	---	---	3	1
30	---	---	---	---	---	---	3	1	---	---	3	1
31	---	---	---	---	---	---	9	2	8	<1	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	130	1

< 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°10'31"(revised), (NAD83), in SW¹/₄NE¹/₄NW¹/₄ sec.11, T.47 N., R.2 E., Shoshone County, Masonia quad., Hydrologic Unit 17010302, on right bank, 20 ft downstream from forest road culvert, 1,200 ft upstream from Gilbert Creek, and approximately 7 mi southeast of Pinehurst.

WATER-DISCHARGE RECORDS

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

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

REMARKS.--No estimated daily discharges. Records fair. 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, 32 ft³/s Apr. 14; minimum daily, 0.44 ft³/s Oct. 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.47	0.84	2.9	2.1	8.5	6.1	16	15	14	3.5	1.2	0.69
2	0.47	0.88	3.4	1.9	6.5	5.5	13	20	13	3.3	1.2	0.64
3	0.46	0.89	5.7	1.7	6.0	4.9	13	26	12	3.1	1.1	0.68
4	0.46	0.82	4.6	1.3	5.5	4.9	16	24	10	3.0	1.0	0.65
5	0.44	0.70	5.3	1.6	4.9	4.5	21	19	9.5	2.7	0.92	0.60
6	0.46	0.68	14	1.2	4.7	3.7	24	16	9.3	2.8	0.90	0.62
7	0.46	0.73	8.9	1.3	4.6	3.5	23	14	8.4	2.7	0.90	0.60
8	0.50	0.85	5.5	1.4	4.2	4.1	22	15	8.0	2.4	0.82	0.63
9	0.50	0.89	3.9	1.5	4.0	8.1	19	15	7.7	2.5	0.85	0.62
10	0.57	1.4	3.6	1.7	3.9	12	17	14	7.4	2.5	0.85	0.64
11	0.58	3.6	3.0	1.8	3.6	11	16	14	6.5	2.1	0.83	0.73
12	0.81	1.5	3.0	1.9	3.5	10	18	14	6.4	2.0	0.83	0.75
13	1.1	1.1	3.2	2.1	3.5	8.9	23	12	6.3	1.9	0.83	0.77
14	0.71	1.1	3.6	2.3	3.6	8.6	32	11	5.7	1.9	0.83	1.5
15	0.71	1.1	2.8	2.7	3.7	8.0	27	9.8	5.4	1.9	0.82	1.4
16	1.3	1.6	2.6	2.9	3.6	7.9	18	10	5.5	1.8	0.84	2.1
17	0.89	2.7	2.4	2.7	4.1	8.6	15	11	5.5	1.7	0.80	1.3
18	0.63	5.4	1.9	2.8	19	11	13	12	5.3	1.8	0.73	2.3
19	0.57	3.9	2.0	2.7	22	13	12	12	5.1	1.7	0.74	2.0
20	0.56	2.9	2.2	2.4	14	11	12	13	4.9	1.5	0.73	1.8
21	0.62	2.0	2.2	2.1	9.6	10	11	14	5.0	1.3	0.76	1.7
22	0.59	1.3	2.0	2.0	7.5	11	10	25	4.8	1.4	0.83	1.4
23	0.65	1.3	2.0	2.3	7.1	16	11	30	4.7	1.4	0.76	1.2
24	0.79	1.5	2.8	2.6	7.2	19	11	25	4.5	1.4	1.0	1.0
25	0.75	1.4	3.1	2.1	7.5	16	12	18	4.3	1.4	2.8	1.0
26	0.75	1.3	2.9	2.0	7.7	14	12	16	4.0	1.3	3.3	0.99
27	0.70	1.0	2.4	2.1	7.4	13	16	15	3.8	1.2	1.1	1.0
28	0.88	1.2	2.5	2.6	7.1	11	22	15	4.6	1.2	0.95	1.0
29	1.1	4.5	2.2	4.8	6.7	11	17	15	4.1	1.2	0.88	1.0
30	0.91	3.9	1.9	27	---	13	15	16	3.8	1.2	0.80	0.98
31	0.82	---	2.0	16	---	19	---	15	---	1.2	0.69	---
TOTAL	21.21	52.98	110.5	105.6	201.2	308.3	507	500.8	199.5	61.0	31.59	32.29
MEAN	0.68	1.77	3.56	3.41	6.94	9.95	16.9	16.2	6.65	1.97	1.02	1.08
MAX	1.3	5.4	14	27	22	19	32	30	14	3.5	3.3	2.3
MIN	0.44	0.68	1.9	1.2	3.5	3.5	10	9.8	3.8	1.2	0.69	0.60
AC-FT	42	105	219	209	399	612	1010	993	396	121	63	64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	0.68	1.39	3.29	5.57	6.62	10.7	25.2	24.7	9.04	1.74	0.89	0.71
MAX	0.76	2.49	7.76	11.1	11.4	20.9	43.1	48.6	22.7	2.39	1.17	1.08
(WY)	2002	2002	2000	2002	2003	2003	2000	2002	2002	2002	2002	2004
MIN	0.60	0.51	0.44	0.50	0.64	3.70	10.6	10.5	2.71	1.07	0.70	0.52
(WY)	2001	2001	2001	2001	2001	2001	2001	2003	2003	2003	2003	2001

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 2000 - 2004
ANNUAL TOTAL	2518.72	2131.97	
ANNUAL MEAN	6.90	5.83	6.94
HIGHEST ANNUAL MEAN			11.8
LOWEST ANNUAL MEAN			3.45
HIGHEST DAILY MEAN	94	Feb 1	32
LOWEST DAILY MEAN	0.44	Oct 5	0.44
ANNUAL SEVEN-DAY MINIMUM	0.46	Oct 1	0.46
ANNUAL RUNOFF (AC-FT)	5000	4230	5030
10 PERCENT EXCEEDS	19	15	18
50 PERCENT EXCEEDS	2.9	2.8	2.0
90 PERCENT EXCEEDS	0.57	0.73	0.52

SPOKANE RIVER BASIN

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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: March 2000 to current year.

SPECIFIC CONDUCTANCE: March 2000 to current year.

TURBIDITY: March 2000 to current year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 30 microsiemens/cm Sept. 3, Oct. 21, 2003; minimum recorded daily mean, 9 microsiemens/cm April 14, July 6, 16, 2000.

TURBIDITY: Maximum recorded, >1,000 FNU Sept. 29, 2004; minimum recorded, <1 FNU on many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 14.0 °C July 25, Aug. 2; minimum, 1.6 °C Feb. 13.

SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 30 microsiemens/cm Oct. 21; minimum recorded daily mean, 13 microsiemens/cm Mar. 24.

TURBIDITY: Maximum recorded, >1,000 FNU Sept. 29; minimum recorded, <1 FNU on many days during the year.

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

Temperature, water, degrees Celsius												
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004												
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10.3	9.4	6.7	6.0	3.5	3.2	2.2	1.4	3.3	3.0	4.1	3.5
2	10.3	9.3	6.3	5.9	3.7	3.5	2.2	1.5	3.0	2.6	4.0	3.4
3	10.0	9.3	6.3	5.7	3.6	3.2	2.1	1.8	3.1	2.5	3.6	3.2
4	10.1	9.2	6.0	5.1	3.4	2.9	1.8	1.2	3.3	3.0	3.6	2.9
5	9.9	9.2	5.1	4.2	3.7	3.4	1.2	0.6	3.4	2.7	3.4	2.5
6	10.0	9.2	4.9	4.0	4.0	3.7	1.1	0.6	3.2	2.6	3.4	2.9
7	10.0	9.5	4.8	3.8	3.9	3.6	1.4	0.9	3.3	2.9	3.8	3.1
8	9.8	9.2	5.4	4.4	3.8	3.5	1.9	1.4	3.1	2.8	4.0	3.3
9	9.6	9.0	5.5	5.0	3.5	3.1	2.1	1.8	3.1	2.8	4.1	3.4
10	9.2	8.7	5.7	4.4	3.3	3.1	2.3	2.0	3.3	2.7	4.2	3.6
11	9.2	8.4	4.4	4.1	3.4	3.2	2.2	1.9	2.9	2.3	4.2	3.6
12	9.1	8.7	4.5	4.0	3.3	3.1	2.0	1.7	2.3	2.0	4.5	3.7
13	9.1	8.5	4.5	3.8	3.3	3.1	2.5	2.0	2.1	1.6	4.4	3.6
14	8.9	8.4	4.7	3.9	3.3	2.9	2.6	2.2	2.6	1.9	4.4	3.7
15	8.7	8.2	5.0	4.3	3.4	3.1	2.8	2.3	2.9	2.4	4.5	3.8
16	8.5	8.0	4.7	3.8	3.3	3.0	2.9	2.6	3.0	2.4	4.6	4.0
17	9.0	8.2	4.0	3.8	3.3	3.0	2.9	2.5	3.1	2.8	4.9	4.1
18	8.9	8.4	4.0	3.7	3.0	2.7	2.8	2.5	3.6	3.0	4.8	4.2
19	9.0	8.4	4.2	3.9	2.7	2.5	3.1	2.8	4.0	3.5	4.2	3.6
20	9.2	8.6	3.9	3.2	3.1	2.6	3.2	2.9	4.0	3.6	4.2	3.4
21	9.2	8.8	3.5	3.2	3.3	3.1	3.1	2.8	3.7	3.3	4.6	3.7
22	9.3	8.7	3.2	2.8	3.2	2.9	3.1	2.7	3.4	3.1	4.9	3.9
23	9.1	8.4	3.3	2.8	2.9	2.6	3.0	2.4	3.4	3.0	4.9	4.1
24	8.4	7.8	3.1	2.6	3.2	2.8	2.9	2.5	3.7	3.3	4.8	4.1
25	8.1	7.6	3.2	2.7	3.3	3.1	2.8	2.4	3.9	3.4	4.8	4.0
26	8.0	7.6	3.4	3.1	3.2	3.0	2.7	2.0	4.2	3.7	4.5	4.0
27	8.1	7.7	3.3	3.0	3.0	2.6	2.9	2.4	4.2	3.8	4.3	3.8
28	8.4	8.0	3.4	3.1	2.7	2.4	2.8	2.5	4.2	3.8	4.6	3.7
29	8.1	7.3	3.3	3.2	2.6	1.9	3.0	2.8	4.3	3.8	4.8	3.7
30	7.4	6.5	3.4	3.2	2.2	1.7	3.3	3.0	---	---	5.1	4.0
31	6.7	6.0	---	---	2.2	2.0	3.4	3.0	---	---	4.7	4.2
MONTH	10.3	6.0	6.7	2.6	4.0	1.7	3.4	0.6	4.3	1.6	5.1	2.5

SPOKANE RIVER BASIN

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

Temperature, water, degrees Celsius
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.5	3.8	6.4	4.7	7.0	5.7	11.9	10.8	13.9	11.8	12.6	11.5
2	4.9	3.7	6.7	5.0	7.6	5.9	13.0	10.7	14.0	12.1	11.8	10.9
3	5.2	4.1	6.2	5.1	8.0	6.4	12.1	10.9	13.7	12.4	11.1	10.5
4	5.6	4.5	6.1	4.9	8.6	7.1	12.2	10.6	13.7	12.0	11.5	10.5
5	5.5	4.4	5.9	5.1	8.4	7.6	12.6	10.4	13.0	12.1	11.3	10.6
6	5.5	4.4	6.1	4.7	7.9	7.2	12.1	10.6	12.8	11.9	11.4	10.2
7	5.4	4.3	6.5	5.1	8.0	6.9	11.8	10.6	12.4	11.7	11.6	10.6
8	5.2	4.5	6.0	5.4	7.7	7.1	11.4	10.1	13.2	11.3	11.4	10.2
9	5.1	4.2	5.9	4.9	7.6	7.1	12.1	9.8	13.3	11.4	11.2	10.5
10	5.3	4.0	5.4	4.6	7.7	7.3	11.8	10.4	13.5	11.6	11.2	10.1
11	5.5	4.1	5.8	5.0	7.4	7.0	11.3	10.1	13.4	11.7	11.1	10.6
12	5.7	4.3	5.0	4.3	7.8	7.0	12.3	9.9	13.5	11.6	10.9	10.3
13	5.6	4.5	5.2	4.1	8.2	7.2	10.2	10.2	13.5	11.7	10.8	10.1
14	5.1	4.3	5.8	4.3	8.2	7.2	12.9	10.5	13.7	11.8	10.4	10.0
15	4.7	4.2	6.1	4.8	8.4	6.8	13.1	10.9	13.3	12.1	10.3	9.9
16	5.0	4.2	5.9	5.7	8.7	6.8	13.3	11.1	13.7	12.2	10.3	9.9
17	4.9	4.0	6.8	5.5	9.4	7.2	12.2	11.3	13.9	12.4	10.4	9.8
18	4.8	3.9	6.8	5.6	9.6	7.4	12.8	11.5	13.7	12.5	10.0	9.3
19	5.3	4.2	7.2	6.1	9.1	7.9	13.0	11.5	13.9	12.3	9.7	9.0
20	4.9	4.2	7.2	6.1	9.8	7.7	13.2	11.8	13.8	12.4	9.5	8.8
21	5.2	4.2	6.6	5.9	10.4	8.2	13.1	11.5	13.7	12.5	9.4	8.6
22	5.4	4.0	6.1	5.6	10.8	8.6	13.5	11.3	12.9	12.4	9.5	8.7
23	5.8	4.3	6.1	5.3	10.9	8.9	13.6	11.5	12.5	12.0	9.6	9.2
24	5.2	4.3	6.0	4.9	11.5	9.4	13.8	11.6	12.3	11.9	9.7	8.8
25	5.7	4.1	6.4	5.1	11.9	9.9	14.0	11.8	11.9	11.2	9.7	8.8
26	6.3	4.5	6.9	6.1	11.4	10.0	13.8	11.9	11.6	11.2	9.7	8.9
27	6.1	4.9	7.3	6.3	12.0	10.1	13.6	11.9	12.1	11.2	9.8	8.9
28	5.2	4.2	6.7	6.0	12.0	10.2	13.6	11.6	11.9	11.1	9.7	8.9
29	5.5	3.7	6.0	5.6	12.2	10.4	13.7	11.7	12.4	11.3	9.6	8.9
30	6.0	4.2	6.3	5.5	12.3	10.7	13.8	11.9	12.7	11.2	9.7	8.9
31	---	---	6.5	5.8	---	---	13.7	11.8	12.4	11.2	---	---
MONTH	6.3	3.7	7.3	4.1	12.3	5.7	14.0	9.8	14.0	11.1	12.6	8.6
YEAR	14.0	0.6										

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

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

WTR YR 2004 MEAN 21 MAX 30 MIN 13

SPOKANE RIVER BASIN

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

Turbidity, water, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
6	<1	<1	<1	<1	4	<1	<1	<1	<1	<1	<1	<1
7	<1	<1	<1	<1	5	<1	<1	<1	<1	<1	<1	<1
8	<1	<1	<1	<1	5	<1	<1	<1	<1	<1	<1	<1
9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
11	<1	<1	24	<1	<1	<1	<1	<1	<1	<1	<1	<1
12	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
13	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
14	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
17	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
18	<1	<1	93	<1	<1	<1	<1	<1	<1	<1	2	<1
19	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4	<1
21	62	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
22	112	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
23	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1
24	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
26	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1
27	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1
28	2	<1	<1	<1	<1	<1	<1	<1	7	<1	<1	<1
29	<1	<1	<1	<1	<1	<1	1	<1	3	<1	<1	<1
30	<1	<1	<1	<1	<1	<1	2	<1	---	---	<1	<1
31	<1	<1	---	---	<1	<1	<1	<1	---	---	<1	<1
MONTH	110	1	93	1	5	1	2	1	7	1	4	1

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
7	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	1	<1
8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
10	<1	<1	<1	<1	58	<1	<1	<1	<1	<1	<1	<1
11	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
12	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
13	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
14	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16	2	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1
17	4	<1	<1	<1	11	<1	<1	<1	2	<1	<1	<1
18	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
19	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1
20	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
21	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1
22	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1
23	62	<1	<1	<1	<1	<1	<1	<1	<1	<1	16	<1
24	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	7	<1
25	<1	<1	<1	<1	2	<1	<1	<1	5	<1	2	<1
26	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	1	<1
27	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	12	<1
28	<1	<1	<1	<1	33	<1	<1	<1	<1	<1	4	<1
29	<1	<1	<1	<1	14	<1	<1	<1	<1	<1	>1000	<1
30	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1
31	---	---	<1	<1	---	---	<1	<1	<1	<1	---	---
MONTH	62	1	1	1	58	1	1	1	5	1	1000	1
YEAR	1000	1										

< 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

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

LOCATION.--Lat 47°28'36", long 116°13'18"(revised), (NAD83), in NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.28, T.48 N., R.2 E., Shoshone County, Masonia quad., Hydrologic Unit 17010302, on right bank at upstream side of Bureau of Land Management road bridge, 80 ft upstream from Nabob Creek, 1.2 mi upstream from confluence with Pine Creek, and 4.3 mi south of Pinehurst.

DRAINAGE AREA.--28.2 mi².

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 good 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 discharge, 184 ft³/s May 23, gage height, 3.67 ft; minimum daily, 4.8 ft³/s Oct. 4-6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	5.3	16	12	63	52	85	63	68	21	8.9	8.3
2	4.9	5.3	15	12	47	45	69	80	63	19	8.7	8.2
3	4.9	5.4	24	11	38	40	65	100	58	19	8.7	8.1
4	4.8	5.4	23	9.8	32	37	75	96	54	19	8.7	7.8
5	4.8	5.1	25	9.5	27	34	e100	84	51	19	8.6	7.4
6	4.8	5.0	69	16	23	30	e110	70	53	18	8.9	7.2
7	4.9	5.1	50	11	21	26	e110	61	46	19	11	7.0
8	4.9	5.5	31	9.6	19	30	e110	63	42	17	8.9	7.0
9	5.0	5.6	22	9.4	17	51	e100	62	40	16	8.0	6.9
10	4.9	6.9	18	10	16	82	e90	57	40	17	7.7	6.8
11	4.9	15	15	11	16	79	79	65	38	15	7.3	7.5
12	5.6	10	14	12	15	72	e85	59	35	15	7.1	8.5
13	6.7	7.3	14	13	15	65	e110	52	35	14	7.0	8.5
14	6.0	6.5	19	15	15	62	e140	45	32	14	6.9	11
15	5.7	6.2	17	16	15	58	118	41	31	13	6.8	13
16	7.8	7.4	16	18	14	56	e90	44	29	13	6.8	20
17	7.9	14	15	18	17	56	e75	46	28	13	6.7	13
18	6.4	24	13	18	73	64	e65	48	27	13	6.7	25
19	5.8	18	13	17	105	78	e55	49	27	13	6.6	20
20	5.7	14	13	16	80	68	e50	54	26	12	6.6	16
21	6.1	11	13	15	64	59	e50	61	25	11	6.5	13
22	5.8	9.4	13	14	53	61	43	140	24	11	7.9	11
23	5.7	8.4	13	14	46	79	43	174	24	11	10	11
24	5.5	8.3	14	15	45	97	46	154	23	11	11	10
25	5.3	8.1	17	14	49	84	48	120	22	10	24	9.4
26	5.3	7.9	18	13	57	77	50	99	22	10	45	9.0
27	5.3	7.5	17	13	62	73	66	87	21	9.9	16	8.7
28	5.9	7.5	16	17	62	63	88	84	26	9.7	12	8.5
29	6.6	21	15	30	58	58	73	79	30	9.4	10	8.3
30	5.9	22	13	130	---	64	62	76	22	9.3	9.1	8.2
31	5.4	---	13	96	---	96	---	73	---	9.1	8.6	---
TOTAL	174.1	288.1	604	635.3	1164	1896	2350	2386	1062	430.4	316.7	314.3
MEAN	5.62	9.60	19.5	20.5	40.1	61.2	78.3	77.0	35.4	13.9	10.2	10.5
MAX	7.9	24	69	130	105	97	140	174	68	21	45	25
MIN	4.8	5.0	13	9.4	14	26	43	41	21	9.1	6.5	6.8
AC-FT	345	571	1200	1260	2310	3760	4660	4730	2110	854	628	623

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	6.87	12.8	22.9	35.7	47.3	66.9	121	107	47.5	13.6	8.16	7.10
MAX	8.15	27.2	49.3	75.7	66.5	103	206	219	121	21.0	10.2	10.5
(WY)	2000	2000	2000	2002	2000	2003	2002	2002	2002	2002	2004	2004
MIN	5.62	6.35	5.82	6.17	7.00	23.6	43.8	51.2	17.6	8.91	5.63	4.51
(WY)	2004	2001	2001	2001	2001	2001	2001	2003	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 2000 - 2004
ANNUAL TOTAL	12931.6	11620.9	
ANNUAL MEAN	35.4	31.8	41.3
HIGHEST ANNUAL MEAN			69.0
LOWEST ANNUAL MEAN			17.8
HIGHEST DAILY MEAN	369	Feb 1	174
LOWEST DAILY MEAN	4.8	Oct 4	4.8
ANNUAL SEVEN-DAY MINIMUM	4.9	Oct 1	4.9
ANNUAL RUNOFF (AC-FT)	25650	23050	29890
10 PERCENT EXCEEDS	84	78	100
50 PERCENT EXCEEDS	17	16	17
90 PERCENT EXCEEDS	5.4	6.3	5.9

e Estimated

SPOKANE RIVER BASIN

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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1999 to current year.

SPECIFIC CONDUCTANCE: October 1999 to current year.

TURBIDITY: October 2000 to current year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 21.0 °C July 27, 29-31, Aug. 1, 2003; minimum, 0.0 °C many days during winter months.

SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 70 microsiemens/cm Nov. 30, 2003; minimum recorded daily mean, 8 microsiemens/cm April 15, 2002.

TURBIDITY: Maximum recorded, >1000 FNU Apr. 14, May 20, 2002; minimum recorded, <1 FNU on many days during the year.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 19.9 °C July 25; minimum, 0.2 °C Jan. 5-6.

SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 66 microsiemens/cm Oct. 21-26, 28-29, Nov. 14-16; minimum recorded daily mean, 20 microsiemens/cm Apr. 14.

TURBIDITY: Maximum recorded, 860 FNU Aug. 25; minimum recorded, <1 FNU on many days during the year.

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

Temperature, water, degrees Celsius
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.3	10.9	6.1	5.0	3.7	2.9	1.3	0.6	2.9	2.1	4.1	2.8
2	13.6	10.8	6.2	5.4	3.9	3.4	1.3	0.6	2.3	1.4	4.1	2.7
3	13.4	10.6	6.1	4.9	4.0	2.6	1.1	0.6	2.6	1.4	3.2	2.2
4	13.2	10.6	5.5	3.7	2.9	2.1	0.7	0.3	2.8	2.1	3.6	2.4
5	13.0	10.6	4.6	3.2	3.5	2.9	0.4	0.2	2.9	1.6	3.1	2.2
6	13.2	10.7	4.3	2.9	3.9	3.2	0.4	0.2	2.6	1.3	3.6	2.0
7	12.6	11.4	4.1	2.8	3.5	3.1	0.7	0.4	2.9	2.0	4.1	2.5
8	12.8	10.7	4.8	3.3	3.3	3.1	0.9	0.6	2.7	2.0	5.1	2.9
9	12.1	10.4	4.4	3.3	3.1	2.2	1.4	0.8	2.8	1.9	4.3	2.8
10	11.0	9.7	4.5	4.2	2.9	2.3	1.7	1.1	2.9	1.7	4.6	2.9
11	11.3	9.4	4.8	4.1	2.9	2.5	1.8	1.3	2.5	1.1	4.7	2.9
12	11.3	10.2	5.0	4.0	3.2	2.5	1.3	0.9	1.8	0.6	4.9	3.1
13	11.0	9.7	4.6	3.6	2.8	2.4	1.9	1.1	1.3	0.4	4.9	3.0
14	10.8	9.5	4.4	3.5	2.8	1.9	2.0	1.3	1.8	0.6	5.1	3.2
15	10.4	9.3	4.4	3.5	3.1	2.4	1.9	1.2	2.1	1.2	5.1	3.1
16	9.8	9.2	4.7	4.0	2.8	2.2	2.4	1.5	2.4	1.1	4.7	3.6
17	11.9	9.6	4.6	4.0	2.8	2.1	2.3	1.3	2.6	1.8	5.5	4.0
18	11.0	9.3	4.9	4.2	2.3	1.6	2.1	1.4	3.0	2.2	5.8	4.2
19	10.8	9.2	5.1	4.2	1.9	1.4	2.7	1.8	3.8	2.8	4.9	3.4
20	11.2	9.9	4.5	2.9	2.3	1.8	2.7	2.0	3.8	2.8	5.1	2.9
21	12.2	10.3	3.8	2.9	3.0	2.3	2.4	1.8	3.7	2.4	6.0	3.4
22	11.4	9.7	3.5	2.6	3.0	2.0	2.4	1.6	3.4	2.0	6.3	3.7
23	10.5	9.1	3.3	2.6	2.0	1.5	2.5	1.3	3.3	1.8	6.2	4.2
24	9.8	8.1	3.5	2.7	2.6	1.7	2.4	1.7	3.4	2.5	5.8	4.1
25	9.2	7.7	3.0	2.6	3.1	2.3	2.4	1.5	3.8	2.6	6.1	4.0
26	9.2	7.7	3.7	3.0	2.6	2.2	2.3	1.5	4.3	3.0	5.6	4.2
27	9.4	7.9	3.5	2.8	2.2	1.4	2.5	1.8	4.3	3.2	4.9	4.1
28	9.5	8.6	3.6	2.9	2.2	1.2	2.3	2.0	4.3	3.2	6.1	3.9
29	8.6	7.1	3.8	3.2	1.7	0.6	2.6	2.2	4.4	3.3	6.7	3.9
30	7.6	5.9	3.8	2.9	1.0	0.5	2.8	2.5	---	---	7.0	4.0
31	6.5	5.0	---	---	1.4	0.8	3.1	2.4	---	---	5.8	4.6
MONTH	13.6	5.0	6.2	2.6	4.0	0.5	3.1	0.2	4.4	0.4	7.0	2.0

SPOKANE RIVER BASIN

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

Temperature, water, degrees Celsius
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.1	4.0	10.0	5.7	9.4	6.7	16.6	14.1	19.7	15.3	16.5	14.4
2	6.7	3.7	10.1	6.3	11.5	6.8	17.7	13.5	19.7	15.9	15.0	13.4
3	7.1	4.3	9.0	6.8	11.5	7.6	16.3	13.8	19.0	16.4	14.1	13.0
4	7.8	5.3	9.1	6.4	13.0	8.4	17.1	13.2	19.2	15.6	15.3	12.7
5	7.2	4.9	8.6	6.7	11.6	9.0	17.8	13.1	18.1	15.8	14.9	13.0
6	7.7	5.0	9.3	5.9	11.3	8.9	16.6	13.5	18.0	15.5	15.6	12.3
7	7.6	4.8	10.3	6.5	11.3	8.3	16.3	13.5	16.6	15.0	15.8	13.0
8	6.5	5.3	9.0	7.2	10.5	8.7	15.2	12.5	18.4	14.4	15.5	12.5
9	7.1	4.9	9.8	6.3	10.4	8.6	16.9	12.2	18.8	14.6	14.6	13.0
10	7.6	4.5	7.6	6.0	9.9	9.0	16.7	13.5	19.0	15.0	15.4	12.4
11	8.0	4.6	8.5	6.5	9.6	8.6	16.6	13.0	18.9	15.1	15.0	13.3
12	8.3	4.8	7.5	5.7	10.9	8.4	17.7	12.7	19.2	15.1	13.8	12.8
13	7.9	5.4	8.4	5.3	11.5	8.9	17.9	13.3	19.1	15.2	14.2	12.6
14	6.9	5.3	9.5	5.7	10.8	8.7	18.5	13.8	19.3	15.4	13.2	12.3
15	---	---	9.7	5.9	12.9	8.2	19.2	14.4	18.9	15.8	12.8	12.0
16	---	---	7.8	7.3	13.7	8.4	19.3	14.7	19.3	16.2	13.3	11.9
17	---	---	10.6	6.9	13.8	9.2	17.3	14.9	19.7	16.5	13.4	12.0
18	---	---	9.9	6.8	14.0	9.3	18.5	15.2	19.3	16.5	12.7	11.1
19	---	---	10.8	7.6	13.2	10.2	18.9	15.1	19.5	16.2	12.5	10.9
20	---	---	10.1	7.6	---	---	18.3	15.4	19.1	16.1	12.3	10.6
21	---	---	9.5	7.6	---	---	18.9	14.7	19.1	16.3	12.2	10.3
22	8.7	4.7	8.2	7.1	---	---	19.2	14.5	17.4	16.3	12.2	10.4
23	8.4	5.0	8.4	6.8	---	---	19.5	14.8	16.3	15.1	12.4	11.2
24	8.1	5.1	8.4	6.1	---	---	19.8	15.0	15.9	15.0	13.2	10.9
25	8.8	4.8	9.3	6.3	---	---	19.9	15.4	15.5	13.6	13.1	10.7
26	9.7	5.4	8.8	7.4	---	---	19.4	15.4	14.8	13.3	13.2	10.7
27	8.6	5.9	10.2	7.5	---	---	18.9	15.4	15.5	13.7	13.2	10.6
28	7.4	5.3	8.5	7.4	---	---	19.0	15.0	15.5	13.7	13.1	10.6
29	8.6	4.6	7.6	6.9	---	---	19.3	15.0	16.6	13.9	12.9	10.5
30	9.4	5.1	8.5	6.7	---	---	19.0	15.5	17.3	13.8	12.8	10.6
31	---	---	9.1	7.1	---	---	19.3	15.3	16.5	13.8	---	---
MONTH	---	---	10.8	5.3	---	---	19.9	12.2	19.7	13.3	16.5	10.3

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

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

SPOKANE RIVER BASIN

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

Turbidity, water, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	<1	<1	<1	<1	<1	<1	3	<1	1	<1	4	<1
2	<1	<1	<1	<1	<1	<1	1	<1	26	<1	4	<1
3	<1	<1	2	<1	1	<1	2	<1	<1	<1	<1	<1
4	<1	<1	<1	<1	2	<1	<1	<1	4	<1	3	<1
5	<1	<1	<1	<1	4	<1	<1	<1	4	<1	1	<1
6	<1	<1	<1	<1	9	1	<1	<1	1	<1	<1	<1
7	<1	<1	2	<1	5	<1	<1	<1	<1	<1	3	<1
8	<1	<1	<1	<1	2	<1	4	<1	<1	<1	<1	<1
9	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	2	<1
10	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	3	<1
11	<1	<1	100	<1	<1	<1	<1	<1	<1	<1	62	<1
12	<1	<1	86	<1	<1	<1	<1	<1	<1	<1	1	<1
13	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1
14	<1	<1	<1	<1	<1	<1	1	<1	2	<1	1	<1
15	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	2	<1
16	<1	<1	<1	<1	<1	<1	<1	<1	3	<1	2	<1
17	<1	<1	1	<1	<1	<1	<1	<1	1	<1	4	<1
18	<1	<1	7	<1	1	<1	1	<1	3	<1	6	<1
19	<1	<1	1	<1	<1	<1	<1	<1	8	1	2	<1
20	<1	<1	6	<1	<1	<1	<1	<1	2	<1	24	<1
21	<1	<1	1	<1	1	<1	3	<1	5	<1	<1	<1
22	<1	<1	<1	<1	1	<1	<1	<1	3	<1	1	<1
23	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	1	<1
24	<1	<1	<1	<1	1	<1	<1	<1	2	<1	4	<1
25	<1	<1	<1	<1	2	<1	<1	<1	2	<1	2	<1
26	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	3	<1
27	<1	<1	<1	<1	<1	<1	<1	<1	3	<1	1	<1
28	2	<1	<1	<1	2	<1	1	<1	4	<1	2	<1
29	<1	<1	2	<1	<1	<1	3	<1	1	<1	1	<1
30	<1	<1	<1	<1	<1	<1	15	3	---	---	3	<1
31	<1	<1	---	---	2	<1	3	1	---	---	3	<1
MONTH	2	1	100	1	9	1	15	1	26	1	62	1

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	<1	<1	1	<1	18	<1	<1	<1	<1	<1	<1	<1
2	2	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1
3	<1	<1	4	<1	2	<1	<1	<1	<1	<1	<1	<1
4	<1	<1	3	<1	2	<1	<1	<1	<1	<1	<1	<1
5	3	<1	7	<1	1	<1	<1	<1	<1	<1	<1	<1
6	1	<1	2	<1	1	<1	<1	<1	<1	<1	<1	<1
7	7	<1	5	<1	1	<1	<1	<1	46	<1	<1	<1
8	2	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1
9	6	<1	2	<1	2	<1	<1	<1	<1	<1	<1	<1
10	1	<1	1	<1	<1	<1	2	<1	<1	<1	<1	<1
11	2	<1	76	<1	3	<1	4	<1	<1	<1	3	<1
12	2	<1	2	<1	<1	<1	7	3	2	<1	<1	<1
13	1	<1	<1	<1	2	<1	20	5	2	<1	5	<1
14	2	<1	5	<1	1	<1	69	12	2	<1	<1	<1
15	---	---	4	<1	2	<1	40	2	2	<1	<1	<1
16	---	---	5	<1	2	<1	9	5	3	<1	<1	<1
17	---	---	<1	<1	<1	<1	51	8	4	<1	<1	<1
18	---	---	1	<1	2	<1	35	13	5	<1	2	<1
19	---	---	2	<1	1	<1	87	6	5	<1	<1	<1
20	---	---	3	<1	<1	<1	6	<1	2	<1	<1	<1
21	---	---	1	<1	<1	<1	<1	<1	3	<1	<1	<1
22	11	<1	3	1	3	<1	<1	<1	3	<1	<1	<1
23	2	<1	6	2	<1	<1	<1	<1	2	<1	<1	<1
24	<1	<1	8	<1	1	<1	<1	<1	1	<1	<1	<1
25	2	<1	2	<1	<1	<1	<1	<1	860	<1	<1	<1
26	<1	<1	2	<1	<1	<1	<1	<1	4	<1	<1	<1
27	5	<1	1	<1	3	<1	---	<1	<1	<1	<1	<1
28	7	<1	2	<1	11	<1	<1	<1	<1	<1	<1	<1
29	1	<1	2	<1	2	<1	<1	<1	<1	<1	<1	<1
30	1	<1	1	<1	1	<1	<1	<1	<1	<1	<1	<1
31	---	---	1	<1	---	---	<1	<1	<1	<1	---	---
MONTH	---	---	76	1	18	1	---	1	860	1	5	1

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

SPOKANE RIVER BASIN

12413445 PINE CREEK BELOW AMY GULCH NEAR PINEHURST, ID

LOCATION.--Lat 47°30'57", long 116°14'24", in SW¹/₄SW¹/₄SW¹/₄ sec.8, T.48 N., R.2 E., Shoshone County, Kellogg West quad., Hydrologic Unit 17010302, on left bank, 3.2 mi upstream from South Fork Coeur d'Alene River and 1.0 mi south of Pinehurst city limits.

WATER-DISCHARGE RECORDS

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

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,220 ft³/s Apr. 14, 2002; minimum daily, 9.1 ft³/s Sept. 24, 26, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 600 ft³/s Jan. 30, gage height, 7.10 ft; minimum daily, 11 ft³/s Oct. 2-13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	14	40	38	209	171	290	253	229	53	22	34
2	11	14	48	36	158	148	235	318	214	50	22	31
3	11	13	57	33	125	131	221	382	199	47	22	29
4	11	13	68	31	103	123	242	370	187	46	21	27
5	11	13	75	27	85	111	327	331	181	44	21	26
6	11	13	198	27	75	98	370	271	188	42	21	25
7	11	13	189	29	70	85	386	240	168	42	22	24
8	11	13	117	27	65	94	394	255	151	40	22	23
9	11	13	79	25	60	151	360	247	139	39	21	22
10	11	13	66	25	55	232	313	227	133	39	21	22
11	11	14	57	26	52	239	290	229	127	37	20	21
12	11	19	51	28	50	221	311	215	117	36	20	22
13	11	19	48	30	48	207	370	196	114	35	20	23
14	12	17	53	32	47	200	488	174	108	34	19	24
15	13	17	50	34	46	189	439	158	100	33	19	26
16	13	20	49	38	46	184	323	166	93	32	19	35
17	14	30	47	41	49	189	254	175	88	31	18	33
18	14	38	44	42	205	214	221	182	84	31	18	57
19	14	35	41	44	356	255	200	187	80	31	18	74
20	14	40	39	44	266	229	193	197	76	30	17	66
21	14	44	37	44	212	200	185	204	72	29	17	58
22	15	41	36	42	181	200	173	356	69	28	17	52
23	16	37	35	42	157	244	169	425	66	28	18	48
24	16	33	35	42	150	315	184	371	63	27	20	44
25	16	30	39	42	161	287	193	300	60	26	28	41
26	15	27	42	40	179	260	203	263	57	25	80	39
27	15	25	42	40	195	251	263	264	55	25	59	36
28	15	23	44	46	199	226	350	274	56	24	53	34
29	15	35	43	77	188	205	286	266	65	24	47	33
30	15	41	41	459	---	215	246	252	56	23	41	31
31	15	---	39	335	---	312	---	240	---	23	37	---
TOTAL	405	717	1849	1866	3792	6186	8479	7988	3395	1054	820	1060
MEAN	13.1	23.9	59.6	60.2	131	200	283	258	113	34.0	26.5	35.3
MAX	16	44	198	459	356	315	488	425	229	53	80	74
MIN	11	13	35	25	46	85	169	158	55	23	17	21
AC-FT	803	1420	3670	3700	7520	12270	16820	15840	6730	2090	1630	2100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2004, BY WATER YEAR (WY)

	1998	1999	2000	2001	2002	2003	2004
MEAN	15.4	47.6	84.3	126	149	227	357
MAX	19.3	116	170	216	232	330	599
(WY)	2000	2000	2000	2002	2003	2003	2002
MIN	13.1	15.7	13.5	14.8	17.1	74.0	143
(WY)	2004	2003	2001	2001	2001	2001	2003

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1998 - 2004
ANNUAL TOTAL	42905	37611	
ANNUAL MEAN	118	103	139
HIGHEST ANNUAL MEAN			201
LOWEST ANNUAL MEAN			55.8
HIGHEST DAILY MEAN	1970	488	3220
LOWEST DAILY MEAN	11	11	9.1
ANNUAL SEVEN-DAY MINIMUM	11	11	9.2
ANNUAL RUNOFF (AC-FT)	85100	74600	100800
10 PERCENT EXCEEDS	288	261	355
50 PERCENT EXCEEDS	48	46	55
90 PERCENT EXCEEDS	13	15	14

SPOKANE RIVER BASIN

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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

- WATER TEMPERATURE: Maximum recorded, 16.1 °C Aug. 17, 2004; minimum recorded, 1.5 °C on Feb. 19, 2000, Feb. 25-26, 2002, Feb. 24, 2003.
- SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 50 microsiemens/cm Oct. 31, Dec. 15, 2002, Nov. 18, 2003; minimum recorded daily mean, 15 microsiemens/cm May 24, 30, June 16-17, 1999, May 29-30, 2002.
- TURBIDITY: Maximum recorded, >1000 FNU April 14, 2002; minimum recorded, <1 FNU on many days.

EXTREMES FOR CURRENT YEAR.--

- WATER TEMPERATURE: Maximum recorded, 16.1 °C Aug. 17; minimum recorded, 2.5 °C Feb. 22.
- SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 50 microsiemens/cm Nov. 18; minimum recorded daily mean, 19 microsiemens/cm Apr. 14-15, May 3-5.
- TURBIDITY: Maximum recorded, 84 FNU July 25; minimum recorded, <1 FNU on many days during the year.

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

Temperature, water, degrees Celsius
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	10.8	9.9	8.8	7.8	7.1	5.3	4.7	3.9	3.1	5.0	3.1
2	13.9	10.7	9.9	9.2	8.0	7.6	5.3	4.7	4.2	2.7	5.0	3.0
3	13.8	10.5	9.9	9.0	7.9	6.5	5.4	4.7	4.2	2.9	3.7	2.8
4	13.7	10.6	10.0	8.2	7.7	6.3	5.1	4.2	4.3	3.6	4.1	2.8
5	13.4	10.7	9.7	7.9	7.8	7.0	4.8	3.5	4.5	3.4	3.7	2.9
6	13.7	10.7	9.7	7.8	7.0	5.1	4.7	3.5	4.6	3.2	4.7	2.8
7	12.5	11.3	9.8	7.9	6.1	5.2	5.0	4.5	4.6	3.7	4.9	3.2
8	13.2	10.8	10.0	8.5	6.6	6.0	5.5	4.8	4.5	3.8	6.4	3.4
9	11.8	10.6	10.1	8.5	7.0	6.0	6.2	5.3	5.3	3.8	4.6	3.2
10	11.4	10.2	9.7	9.3	6.9	6.5	5.8	5.5	5.3	3.8	5.4	3.0
11	11.6	10.0	10.1	9.3	7.0	6.6	6.0	5.4	5.4	3.4	5.4	2.9
12	11.5	10.8	10.1	9.3	7.3	6.6	6.0	5.1	5.2	3.2	5.5	3.1
13	11.8	10.4	10.4	9.3	6.9	6.2	5.8	5.1	5.1	2.8	5.2	3.0
14	11.8	10.4	9.9	9.2	6.8	5.9	5.9	5.0	4.1	3.3	5.9	3.3
15	11.6	10.5	9.7	9.1	6.9	6.3	5.2	4.9	4.4	3.7	5.7	3.1
16	11.2	10.6	9.9	9.4	6.7	6.1	5.7	4.7	4.7	3.4	4.7	3.5
17	13.3	10.9	9.5	8.9	7.1	6.4	5.5	4.6	4.5	3.9	5.5	3.9
18	13.1	10.6	9.1	8.8	7.0	5.9	5.2	4.7	4.0	3.2	5.7	3.9
19	12.4	10.6	9.1	8.3	6.7	5.8	5.6	4.7	4.1	3.1	4.8	3.3
20	12.1	11.2	8.7	7.5	6.4	6.1	5.6	4.9	4.1	3.1	5.6	3.0
21	13.6	11.3	8.4	7.5	6.9	6.3	5.2	4.7	4.8	2.9	6.6	3.4
22	13.3	11.1	8.5	7.6	7.0	6.2	5.3	4.3	4.8	2.5	7.0	3.6
23	12.4	10.6	8.3	7.8	6.5	5.7	5.4	4.3	4.9	2.6	6.0	4.0
24	12.1	10.1	8.4	7.7	6.5	5.9	5.1	4.4	4.3	3.1	6.0	3.9
25	11.9	9.9	8.0	7.7	6.6	6.0	5.1	4.3	4.5	3.3	6.2	3.9
26	12.0	10.0	8.5	7.8	6.0	5.6	5.0	4.3	4.9	3.3	5.5	3.9
27	11.6	10.2	8.7	7.6	5.8	5.0	5.0	4.6	4.8	3.5	5.3	3.9
28	11.5	10.4	8.4	7.9	6.0	5.0	4.8	4.6	4.6	3.4	6.5	3.9
29	10.9	9.5	8.2	7.1	5.7	4.5	4.7	3.4	4.7	3.4	7.4	3.9
30	10.2	9.0	8.0	7.1	5.3	4.3	3.4	3.0	---	---	7.4	3.8
31	10.3	8.7	---	---	5.5	4.9	3.8	3.1	---	---	5.7	4.4
MONTH	13.9	8.7	10.4	7.1	8.0	4.3	6.2	3.0	5.4	2.5	7.4	2.8

SPOKANE RIVER BASIN

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

Temperature, water, degrees Celsius
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.2	3.9	9.8	5.4	10.1	6.7	13.0	10.3	15.6	11.2	14.4	12.1
2	7.3	3.7	9.8	5.8	11.4	6.7	14.6	9.9	15.6	11.5	13.6	11.7
3	7.4	4.1	9.0	6.2	11.0	7.1	12.4	10.1	14.8	11.8	13.1	11.8
4	7.4	4.9	8.8	6.0	12.2	7.7	14.1	9.8	15.4	11.4	13.7	11.7
5	7.1	4.6	8.4	6.2	10.3	8.0	14.6	10.2	14.6	11.6	14.0	11.8
6	7.9	4.7	9.1	5.6	10.7	8.0	13.7	10.1	14.4	11.6	14.9	11.5
7	7.8	4.5	9.7	6.0	11.2	7.6	13.2	10.3	13.3	11.6	15.1	11.9
8	6.4	5.0	8.6	6.5	10.2	8.0	12.6	9.7	15.4	11.4	14.8	11.6
9	6.9	4.7	9.2	5.9	9.5	7.8	14.2	9.6	15.7	11.4	13.4	11.8
10	7.8	4.3	7.4	5.6	9.0	8.2	14.2	10.5	15.8	11.5	14.9	11.5
11	8.2	4.4	8.1	6.2	8.9	7.9	12.8	10.1	15.6	11.6	14.1	12.1
12	8.4	4.5	7.7	5.6	10.7	7.8	14.7	9.8	15.9	11.5	12.7	11.9
13	7.7	5.0	8.6	5.3	10.2	8.1	14.9	10.2	15.8	11.6	13.6	11.9
14	6.7	5.1	9.8	5.8	10.0	7.9	15.0	10.5	15.8	11.6	12.5	11.9
15	5.5	4.8	9.6	5.8	11.8	7.4	15.4	10.8	15.6	11.9	12.4	11.9
16	6.7	4.9	7.6	6.8	12.4	7.5	15.4	10.8	15.8	12.1	13.2	11.9
17	7.0	4.7	9.8	6.7	12.6	8.0	13.1	10.9	16.1	12.2	12.9	11.8
18	6.7	4.6	9.9	6.4	12.4	8.0	14.9	11.2	15.9	12.2	13.3	11.2
19	7.1	4.7	10.1	7.0	12.0	8.6	15.1	11.3	16.0	12.1	13.3	11.1
20	6.9	4.9	9.7	7.1	12.8	8.2	15.1	11.4	15.8	12.1	12.8	11.1
21	8.1	5.1	9.1	7.2	13.3	8.6	15.2	11.0	15.7	12.1	13.5	10.9
22	8.8	4.7	8.2	7.1	13.5	8.7	15.3	10.9	13.4	12.4	12.6	11.0
23	8.3	5.0	8.5	6.8	13.6	9.0	15.4	11.1	12.8	11.9	12.6	11.4
24	8.0	5.0	9.0	6.1	14.0	9.2	15.5	11.1	13.0	11.9	14.1	11.4
25	9.0	4.7	9.8	6.3	14.2	9.8	15.4	11.3	13.3	12.3	14.2	11.3
26	9.7	5.1	8.5	7.3	13.2	9.6	15.3	11.2	13.9	12.2	14.3	11.3
27	8.1	5.4	9.8	7.3	14.3	9.7	15.0	11.2	14.0	12.2	14.3	11.0
28	7.7	5.2	8.3	7.1	14.3	9.7	15.2	11.0	13.5	12.0	14.2	11.3
29	8.9	4.6	7.6	6.8	14.3	10.5	15.4	11.1	14.5	12.0	13.8	11.0
30	9.4	5.0	8.6	6.6	14.6	10.4	15.2	11.4	15.6	11.7	13.7	11.2
31	---	---	8.9	6.9	---	---	15.3	11.2	14.6	11.7	---	---
MONTH	9.7	3.7	10.1	5.3	14.6	6.7	15.5	9.6	16.1	11.2	15.1	10.9
YEAR	16.1	2.5										

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	45	45	38	33	31	23	21	23	30	34	38
2	43	45	44	39	34	31	23	20	23	30	34	38
3	43	45	44	39	34	32	23	19	24	30	34	39
4	43	45	43	38	34	31	23	19	24	30	34	38
5	43	45	42	38	35	31	22	19	24	31	34	38
6	43	45	38	38	35	31	21	20	24	31	34	38
7	43	45	36	38	35	31	20	20	24	31	34	38
8	43	45	38	38	35	32	20	20	25	31	35	38
9	43	45	39	38	35	31	20	20	25	31	35	38
10	43	45	39	38	35	29	21	21	25	32	35	38
11	43	45	39	39	35	28	21	22	26	32	35	38
12	43	46	39	39	35	28	21	22	26	32	35	39
13	43	46	39	40	35	28	20	22	26	32	35	39
14	44	46	40	40	35	28	19	21	26	32	35	39
15	44	46	40	40	35	28	19	22	26	32	35	40
16	44	47	39	40	35	28	20	22	27	32	36	43
17	45	48	39	40	35	27	21	22	26	32	36	42
18	45	50	39	39	33	27	22	22	27	32	36	43
19	45	49	39	39	30	26	22	22	27	33	36	42
20	45	47	39	38	30	26	22	22	27	33	36	43
21	46	45	40	38	31	26	23	22	27	33	36	41
22	46	44	40	38	31	26	22	25	28	33	36	41
23	46	44	40	38	31	25	22	25	28	33	37	40
24	46	44	40	38	31	23	22	24	28	33	37	40
25	46	44	41	38	31	23	22	24	28	33	38	40
26	46	44	41	38	31	23	22	24	29	33	44	40
27	46	44	40	37	31	23	21	23	29	33	40	40
28	45	43	40	38	31	24	20	23	29	33	40	40
29	45	45	39	39	31	24	20	23	30	33	40	40
30	45	47	39	32	---	24	21	23	30	33	40	40
31	45	---	39	32	---	23	---	23	---	33	38	---
MEAN	44	45	40	38	33	27	21	22	26	32	36	40
MAX	46	50	45	40	35	32	23	25	30	33	44	43
MIN	43	43	36	32	30	23	19	19	23	30	34	38

WTR YR 2004 MEAN 34 MAX 50 MIN 19

SPOKANE RIVER BASIN

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

Turbidity, water, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1
2	<1	<1	<1	<1	2	<1	2	<1	<1	<1	<1	<1
3	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	1	<1
4	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1
5	<1	<1	<1	<1	3	<1	<1	<1	<1	<1	<1	<1
6	<1	<1	<1	<1	11	2	<1	<1	<1	<1	<1	<1
7	<1	<1	1	<1	2	<1	<1	<1	<1	<1	<1	<1
8	<1	<1	<1	<1	1	<1	<1	<1	4	<1	<1	<1
9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
10	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	1	<1
11	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	1	<1
12	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1
13	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
14	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
15	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
16	<1	<1	6	<1	<1	<1	<1	<1	<1	<1	<1	<1
17	<1	<1	17	<1	<1	<1	<1	<1	<1	<1	<1	<1
18	1	<1	2	<1	<1	<1	<1	<1	3	<1	<1	<1
19	<1	<1	<1	<1	<1	<1	<1	<1	2	1	<1	<1
20	<1	<1	4	<1	<1	<1	<1	<1	2	<1	<1	<1
21	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
22	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
23	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
24	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1
25	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
26	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
27	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
28	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
29	<1	<1	<1	<1	<1	<1	6	<1	<1	<1	<1	<1
30	<1	<1	<1	<1	<1	<1	24	3	---	---	<1	<1
31	<1	<1	---	---	<1	<1	3	1	---	---	<1	<1
MONTH	1	1	17	1	11	1	24	1	4	1	2	1

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	<1	<1	<1	<1	20	<1	<1	<1	<1	<1	<1	<1
2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1
4	<1	<1	<1	<1	2	<1	1	<1	1	<1	<1	<1
5	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1
6	<1	<1	<1	<1	<1	<1	3	<1	1	<1	<1	<1
7	<1	<1	<1	<1	2	<1	3	<1	<1	<1	<1	<1
8	<1	<1	1	<1	<1	<1	2	<1	1	<1	<1	<1
9	1	<1	<1	<1	3	<1	<1	<1	1	<1	<1	<1
10	<1	<1	<1	<1	2	<1	2	<1	<1	<1	<1	<1
11	<1	<1	2	<1	9	<1	<1	<1	<1	<1	<1	<1
12	<1	<1	<1	<1	<1	<1	<1	<1	3	<1	<1	<1
13	<1	<1	<1	<1	1	<1	2	<1	<1	<1	<1	<1
14	3	<1	3	<1	2	<1	8	<1	6	<1	<1	<1
15	3	<1	<1	<1	2	<1	1	<1	1	<1	<1	<1
16	1	<1	3	<1	1	<1	4	<1	<1	<1	<1	<1
17	<1	<1	5	<1	<1	<1	5	<1	<1	<1	<1	<1
18	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1
19	<1	<1	1	<1	<1	<1	11	<1	<1	<1	<1	<1
20	<1	<1	1	<1	<1	<1	8	<1	<1	<1	<1	<1
21	3	<1	2	<1	2	<1	8	<1	<1	<1	<1	<1
22	<1	<1	12	<1	2	<1	2	<1	<1	<1	<1	<1
23	<1	<1	6	2	2	<1	<1	<1	<1	<1	<1	<1
24	2	<1	3	<1	3	<1	6	<1	<1	<1	<1	<1
25	2	<1	1	<1	6	<1	84	<1	1	<1	<1	<1
26	<1	<1	1	<1	<1	<1	<1	<1	4	<1	<1	<1
27	2	<1	2	<1	8	<1	1	<1	<1	<1	<1	<1
28	1	<1	2	<1	1	<1	3	<1	<1	<1	<1	<1
29	<1	<1	<1	<1	<1	<1	7	<1	<1	<1	<1	<1
30	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
31	---	---	<1	<1	---	---	<1	<1	<1	<1	---	---
MONTH	3	1	12	1	20	1	84	1	6	1	1	1
YEAR	84	1										

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

SPOKANE RIVER BASIN

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

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

DRAINAGE AREA.--299 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 except for estimated daily discharges, which are fair. 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)
May 23	0545	*1,690	*10.01	No peaks greater than base discharge.			
Minimum daily, 79 ft ³ /s Nov. 6.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	93	175	147	522	506	861	857	1010	323	150	173
2	86	93	187	146	413	469	738	1020	943	309	147	170
3	84	94	219	e140	359	430	697	1290	888	296	146	165
4	83	93	238	e130	317	413	753	1360	861	291	147	158
5	82	82	242	e100	286	388	943	1250	848	286	145	152
6	83	79	445	e85	261	361	1080	1090	911	273	147	147
7	84	82	439	117	251	330	1170	972	818	279	182	142
8	87	86	318	131	235	343	1210	1010	747	266	157	139
9	89	85	254	134	222	432	1110	1010	692	254	145	136
10	88	92	223	135	211	605	977	926	671	246	140	135
11	86	144	202	135	203	661	916	971	663	239	137	142
12	98	126	187	133	195	637	950	855	610	e230	133	154
13	113	106	181	134	191	612	1110	772	591	e220	130	154
14	102	97	199	138	198	592	1480	698	571	211	127	183
15	102	96	184	146	196	565	1400	650	542	205	125	189
16	119	101	175	157	194	550	1100	664	511	201	125	275
17	118	126	170	161	206	554	903	678	487	200	124	233
18	101	179	163	164	445	612	789	716	471	200	122	300
19	94	218	157	165	759	746	712	818	455	206	122	305
20	94	200	154	166	657	700	679	895	438	201	121	276
21	94	175	153	166	560	632	656	923	420	193	123	249
22	90	153	150	163	492	622	608	1390	404	187	131	231
23	91	140	146	170	452	733	588	1630	391	180	149	217
24	93	136	148	172	445	891	617	1430	380	176	166	204
25	93	127	165	172	473	852	627	1190	367	173	237	197
26	92	122	166	166	512	797	653	1100	360	169	465	188
27	91	114	163	164	554	769	794	1210	362	166	296	177
28	109	112	164	180	567	699	1050	1250	344	164	253	171
29	143	171	159	233	544	636	943	1210	366	160	222	166
30	109	199	143	835	---	650	843	1140	333	156	201	162
31	95	---	149	742	---	871	---	1080	---	153	186	---
TOTAL	2978	3721	6218	5927	10920	18658	26957	32055	17455	6813	5201	5690
MEAN	96.1	124	201	191	377	602	899	1034	582	220	168	190
MAX	143	218	445	835	759	891	1480	1630	1010	323	465	305
MIN	82	79	143	85	191	330	588	650	333	153	121	135
AC-FT	5910	7380	12330	11760	21660	37010	53470	63580	34620	13510	10320	11290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2004, BY WATER YEAR (WY)

MEAN	121	270	358	400	585	692	1202	1315	774	267	147	116
MAX	252	977	1544	963	2104	1137	1878	2839	1718	503	199	190
(WY)	1996	1996	1996	1997	1996	1997	2000	1997	2002	1999	1999	2004
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 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1987 - 2004
ANNUAL TOTAL	145368	142593	
ANNUAL MEAN	398	390	519
HIGHEST ANNUAL MEAN			846
LOWEST ANNUAL MEAN			232
HIGHEST DAILY MEAN	3820	1630	9000
LOWEST DAILY MEAN	79	79	58
ANNUAL SEVEN-DAY MINIMUM	84	84	67
ANNUAL RUNOFF (AC-FT)	288300	282800	376300
10 PERCENT EXCEEDS	954	918	1250
50 PERCENT EXCEEDS	217	208	264
90 PERCENT EXCEEDS	92	101	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 FNU on many days; minimum recorded, <1 FNU on many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 22.0 °C Aug. 17; minimum, 1.5 °C Dec. 30.

SPECIFIC CONDUCTANCE: Maximum daily mean, 336 microsiemens/cm Oct. 2; minimum daily mean, 63 microsiemens/cm Apr. 15.

TURBIDITY: Maximum recorded >1,000 FNU July 19, Sept. 26; minimum recorded, <1 FNU 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 2003 TO SEPTEMBER 2004

Date	Time	Instan- taneous dis- charge, cfs (00061)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unfltrd uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite +		Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)
											nitrate water fltrd, mg/L as N (00631)	nitrate water unfltrd, mg/L as N (00631)		
OCT	08...	0920	88	7.3	276	9.0	10.4	130	31.8	11.4	.186	.256	.033	.046
DEC	06...	1247	470	6.9	133	3.5	5.5	51	13.0	4.51	.125	.224	.019	.277
JAN	21...	1405	164	6.8	222	2.0	4.7	96	24.5	8.56	.153	.248	.019	.032
MAR	31...	1535	904	6.8	84	9.5	6.2	35	9.02	3.05	.019	.024	.009	.022
MAY	05...	1000	1260	7.4	63	12.5	6.6	25	6.68	2.02	.019	.043	.005	.013
JUN	10...	1530	679	7.2	94	13.5	9.8	40	10.7	3.11	.044	.051	.011	.018
JUL	27...	1415	177	7.4	197	30.0	18.5	78	20.7	6.44	.088	.147	.026	.038
SEP	07...	1400	145	7.2	184	25.0	15.5	74	20.1	5.89	.066	.168	.012	.020
Date	Total nitro- gen, wat unfltrd by anal- ysis, mg/L (62855)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recover- able, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover- able, ug/L (01051)	Mangan- ese, water, fltrd, ug/L (01056)	Mangan- ese, water, unfltrd recover- able, ug/L (01055)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)	
														OCT
DEC	06...	.72	6.64	17.4	13.9	2540	1.25	89.7	233	998	836	1300	28	36
JAN	21...	.43	8.41	8.48	40.2	117	2.56	7.1	755	781	1170	1190	5	2.2
MAR	31...	.17	3.09	3.70	26.0	286	3.30	36.8	140	183	506	559	5	12
MAY	05...	.10	2.17	2.54	15.9	242	1.64	25.8	133	161	368	388	6	20
JUN	10...	.11	3.44	3.45	42.1	95.2	3.49	8.3	135	129	568	523	1	1.8
JUL	27...	.27	5.22	5.33	71.8	151	3.95	8.4	213	217	826	806	.0	.00
SEP	07...	.30	6.78	6.87	75.2	141	4.22	7.7	221	219	1050	977	1	.39

SPOKANE RIVER BASIN

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

Temperature, water, degrees Celsius
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.4	11.2	5.3	3.4	6.1	5.0	3.2	2.2	4.1	2.8	6.4	3.8
2	15.8	11.0	6.0	4.5	6.6	5.9	3.0	2.3	4.2	2.4	7.0	3.9
3	15.5	10.6	6.0	4.5	6.5	4.7	---	---	4.3	2.5	4.2	2.8
4	15.4	10.8	5.6	3.3	4.8	3.5	---	---	4.7	3.5	5.0	2.8
5	15.2	10.8	4.5	1.7	6.1	4.7	---	---	4.9	3.4	4.3	3.1
6	15.5	11.1	4.6	1.6	5.9	4.7	---	---	4.3	2.5	5.9	2.7
7	14.1	12.5	5.0	2.3	5.4	4.7	2.1	1.7	4.4	3.4	6.3	3.8
8	12.7	10.6	6.1	3.7	5.0	4.7	2.4	1.7	4.5	3.4	9.2	4.9
9	12.5	10.9	6.4	3.8	5.1	4.2	4.1	2.0	5.9	3.5	6.0	4.5
10	10.9	8.9	6.3	5.8	5.0	4.2	4.4	3.6	5.8	3.6	7.4	4.0
11	10.4	7.9	6.5	5.7	5.3	4.8	4.8	3.8	5.9	3.4	7.0	3.2
12	10.8	9.7	7.0	5.6	5.6	4.7	4.8	3.7	5.2	2.2	6.8	3.6
13	12.1	9.9	7.0	5.5	5.3	4.7	4.9	3.5	5.0	1.8	6.6	3.5
14	11.0	8.7	6.1	5.2	4.8	4.0	5.3	4.2	3.4	2.2	7.2	3.7
15	10.1	8.9	6.1	5.3	5.4	4.7	4.5	3.9	4.5	3.3	7.1	3.5
16	9.8	8.8	6.9	6.1	5.0	4.1	5.8	4.2	5.0	3.6	5.9	4.2
17	13.9	9.8	6.8	6.2	6.0	5.0	5.3	4.2	5.1	4.2	7.2	4.7
18	13.2	9.8	7.6	6.2	5.1	3.7	4.7	4.0	4.8	3.9	7.0	5.0
19	11.7	9.6	7.2	5.7	4.8	3.6	5.4	4.2	4.8	3.7	5.8	3.8
20	12.0	10.4	5.9	5.0	4.7	3.9	5.8	4.7	5.0	3.5	7.2	2.9
21	15.8	12.0	5.1	4.3	5.9	4.7	5.1	4.4	6.2	3.5	9.1	3.8
22	14.5	11.8	4.3	3.6	6.2	4.7	5.1	3.9	6.0	2.7	9.4	4.4
23	12.8	10.0	4.7	3.6	4.7	3.5	4.9	3.1	6.2	2.6	7.8	4.6
24	10.7	7.9	5.0	4.3	5.1	3.9	4.6	3.1	5.1	3.7	6.7	4.2
25	10.0	6.6	4.8	4.2	5.4	4.8	4.3	3.0	5.7	4.0	7.5	4.0
26	10.3	7.2	5.8	4.7	5.1	4.3	4.0	3.0	6.6	4.1	6.9	4.6
27	10.2	8.2	6.6	5.0	4.5	3.7	4.6	3.8	6.1	4.2	6.5	4.2
28	10.5	9.5	5.9	5.0	4.1	2.9	4.6	4.3	6.5	4.1	8.7	4.3
29	9.9	5.6	6.2	5.7	3.6	2.1	4.8	4.4	6.5	4.3	9.7	4.3
30	5.6	3.6	6.8	5.5	2.6	1.5	4.6	3.0	---	---	9.9	4.4
31	5.5	2.3	---	---	3.2	2.1	3.7	2.8	---	---	7.1	5.2
MONTH	15.8	2.3	7.6	1.6	6.6	1.5	---	---	6.6	1.8	9.9	2.7

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.6	4.2	12.3	6.1	11.5	6.9	18.9	14.1	21.3	14.3	17.0	14.3
2	9.3	3.9	12.2	6.7	13.4	7.1	19.8	12.9	21.2	14.8	14.7	12.3
3	9.6	4.9	11.1	6.8	13.3	7.9	17.2	13.2	19.3	15.7	13.8	11.6
4	9.9	6.0	10.2	6.3	15.1	8.9	18.3	12.2	20.9	14.3	15.3	11.6
5	8.7	5.1	9.5	6.7	12.3	9.3	19.0	12.1	18.4	14.8	17.1	11.9
6	10.0	5.3	10.4	5.6	12.1	8.8	17.1	12.8	18.6	13.9	16.8	11.3
7	9.8	4.9	11.3	6.5	12.2	7.8	16.0	13.5	17.2	13.8	17.2	12.7
8	7.9	5.5	9.5	7.0	11.4	8.3	16.2	10.9	20.1	12.7	17.1	11.9
9	8.5	5.4	10.3	6.2	10.5	8.3	18.3	10.7	20.8	13.7	15.0	12.6
10	9.8	4.5	7.8	5.6	10.1	9.0	18.7	13.1	21.4	14.3	16.8	11.6
11	10.2	4.7	8.7	6.8	9.6	8.5	18.0	12.5	21.3	14.5	15.1	13.0
12	10.4	5.0	8.5	5.4	12.7	8.1	---	---	21.3	14.2	14.6	12.8
13	9.4	5.6	9.0	5.0	11.8	8.8	---	---	21.5	14.6	14.3	11.8
14	8.1	5.9	11.9	5.9	10.9	8.3	20.6	13.6	21.3	14.6	13.2	12.0
15	6.2	4.9	11.5	6.1	14.5	7.7	21.5	14.6	20.6	15.2	12.4	11.3
16	7.7	5.1	9.1	7.9	15.2	8.0	21.6	14.7	21.3	15.9	14.0	11.4
17	8.7	5.0	12.9	7.4	15.5	9.1	18.4	14.9	22.0	16.2	13.5	11.5
18	7.9	5.1	11.6	7.3	15.5	9.2	19.0	14.9	20.9	16.1	13.3	11.5
19	8.7	5.1	12.3	8.0	15.3	10.0	20.7	14.7	21.2	15.4	13.5	10.4
20	8.1	5.3	10.2	7.5	15.9	9.3	19.2	15.4	20.7	15.1	13.2	10.5
21	10.4	5.4	9.9	7.6	17.4	10.2	20.6	13.8	20.6	15.3	13.8	9.7
22	10.9	5.2	8.8	7.3	18.1	11.1	20.8	13.7	17.8	15.5	12.8	10.1
23	10.0	5.8	9.3	6.9	18.5	11.7	21.4	14.2	15.6	13.6	13.4	11.4
24	10.6	6.1	9.9	6.3	19.2	12.2	21.8	14.4	14.4	12.7	15.6	11.0
25	11.3	5.0	11.4	6.3	19.7	13.3	21.4	15.0	14.2	13.2	15.8	11.5
26	12.5	6.0	9.8	8.0	18.0	13.3	20.6	14.7	14.7	12.5	16.0	11.6
27	9.8	6.4	10.9	7.8	19.6	12.6	20.1	14.1	15.4	12.5	16.2	11.4
28	9.2	5.8	9.2	7.8	19.3	13.0	20.1	13.5	15.1	12.5	15.9	11.9
29	10.7	4.5	7.8	7.0	19.5	13.0	20.9	13.7	18.3	12.9	15.5	11.4
30	11.7	5.4	9.4	6.5	20.0	13.3	20.5	14.4	19.1	13.3	15.0	11.7
31	---	---	10.0	7.2	---	---	21.1	14.1	18.0	13.4	---	---
MONTH	12.5	3.9	12.9	5.0	20.0	6.9	---	---	22.0	12.5	17.2	9.7

SPOKANE RIVER BASIN

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

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	310	207	198	202	139	136	96	83	84	140	216	204
2	336	283	206	202	158	145	100	75	87	150	213	215
3	325	313	200	---	165	156	99	66	89	160	203	200
4	262	289	199	---	176	167	94	65	88	165	221	201
5	257	299	203	---	188	172	83	67	83	160	221	204
6	271	296	160	---	186	178	78	72	80	162	220	205
7	287	253	147	262	190	185	73	81	84	161	206	193
8	294	244	174	253	197	183	73	73	86	165	214	202
9	299	238	193	249	195	162	77	69	90	169	215	211
10	305	251	204	228	185	128	82	71	96	180	215	207
11	307	240	206	226	186	118	85	73	98	180	219	221
12	300	230	201	219	183	119	83	80	103	---	203	216
13	268	250	203	214	187	126	77	86	103	---	221	214
14	248	215	190	229	204	128	68	93	101	155	232	213
15	280	258	191	225	208	131	63	99	108	166	235	201
16	274	272	196	231	213	139	79	99	114	160	234	180
17	262	272	213	231	212	131	86	98	119	172	231	193
18	244	236	218	229	163	119	91	93	121	174	238	178
19	246	212	227	226	133	107	95	89	124	186	238	171
20	264	222	232	237	141	112	98	84	125	193	238	176
21	276	214	235	252	136	121	98	82	128	183	245	181
22	284	201	241	247	146	116	104	70	132	193	243	175
23	283	205	242	224	157	103	103	71	129	194	228	182
24	295	217	243	201	154	98	104	74	122	193	219	176
25	283	233	237	197	145	95	102	79	124	196	163	187
26	302	239	231	198	159	103	101	82	124	200	161	193
27	327	218	231	204	139	104	89	76	121	194	185	197
28	224	220	223	214	128	111	72	73	128	214	194	203
29	178	207	204	200	135	116	79	76	124	231	202	208
30	192	189	208	111	---	115	84	79	132	217	204	210
31	200	---	204	116	---	97	---	82	---	215	217	---
MEAN	274	241	208	---	169	130	87	79	108	---	216	197
MAX	336	313	243	--	213	185	104	99	132	--	245	221
MIN	178	189	147	--	128	95	63	65	80	--	161	171

Turbidity, water, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +/- -2.5 degrees, FNU

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2	1	<1	<1	3	<1	2	<1	6	2	9	6
2	2	2	5	<1	3	<1	2	<1	8	<1	7	2
3	3	2	3	<1	19	<1	---	---	2	<1	3	<1
4	10	2	4	<1	7	<1	---	---	5	<1	3	<1
5	6	3	5	<1	46	<1	---	---	3	<1	3	<1
6	4	3	2	<1	46	12	---	---	3	2	2	<1
7	3	3	2	<1	12	2	6	1	3	2	2	<1
8	8	2	1	<1	6	<1	7	1	4	2	2	<1
9	5	2	4	<1	3	<1	5	2	4	2	3	1
10	4	3	6	<1	2	<1	12	2	6	3	6	2
11	4	3	18	3	3	<1	6	2	7	4	6	2
12	6	3	10	<1	2	<1	13	2	8	4	5	2
13	9	4	2	<1	3	<1	5	2	7	4	4	1
14	10	6	3	<1	3	<1	---	---	5	2	7	1
15	14	6	2	<1	2	<1	6	<1	10	<1	78	1
16	24	7	6	<1	2	<1	8	2	8	<1	5	<1
17	26	16	8	2	3	<1	3	1	3	<1	5	<1
18	28	20	30	2	1	<1	3	<1	22	2	5	1
19	32	19	22	3	1	<1	4	1	18	9	14	3
20	24	16	13	1	2	<1	3	1	18	5	6	2
21	25	16	5	<1	2	<1	2	<1	9	4	4	1
22	17	11	2	<1	4	<1	9	1	13	6	5	<1
23	12	<1	1	<1	3	<1	14	2	12	<1	12	2
24	1	<1	3	<1	5	<1	24	3	10	<1	16	7
25	<1	<1	1	<1	5	1	170	2	8	2	9	3
26	1	<1	16	<1	33	<1	4	2	7	3	5	2
27	3	<1	2	<1	1	<1	8	2	9	4	9	1
28	22	<1	3	<1	2	<1	7	3	7	4	9	1
29	30	<1	14	<1	4	<1	30	6	15	4	3	<1
30	2	<1	6	1	2	<1	97	15	---	---	24	<1
31	<1	<1	---	---	2	<1	22	5	---	---	6	2
MONTH	32	1	30	1	46	1	---	---	22	1	78	1

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

SPOKANE RIVER BASIN

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

Turbidity, water, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7	2	4	<1	3	<1	120	<1	4	<1	<1	<1
2	3	1	4	1	3	<1	2	<1	4	<1	<1	<1
3	3	<1	9	4	3	<1	<1	<1	4	<1	<1	<1
4	5	1	12	4	3	<1	<1	<1	3	<1	15	<1
5	17	2	8	3	4	<1	<1	<1	80	<1	<1	<1
6	14	6	7	2	8	<1	<1	<1	2	<1	3	<1
7	14	7	4	1	5	<1	3	<1	2	<1	<1	<1
8	16	5	7	1	150	<1	<1	<1	8	<1	<1	<1
9	11	2	5	2	5	<1	<1	<1	41	<1	1	<1
10	10	2	2	<1	5	<1	<1	<1	6	<1	<1	<1
11	4	1	6	1	5	<1	<1	<1	82	<1	<1	<1
12	5	2	3	<1	2	<1	---	---	56	<1	<1	<1
13	9	2	2	<1	3	<1	---	---	---	---	2	<1
14	22	9	2	<1	19	<1	3	<1	<1	<1	2	<1
15	12	5	2	<1	15	<1	2	<1	<1	<1	6	<1
16	10	3	5	<1	6	<1	4	<1	5	<1	49	<1
17	5	2	3	<1	2	<1	3	<1	2	<1	4	<1
18	4	1	3	<1	3	<1	3	<1	4	<1	21	<1
19	3	1	150	<1	<1	<1	>1000	<1	3	<1	16	<1
20	4	1	17	2	<1	<1	6	<1	<1	<1	3	<1
21	3	1	7	1	2	<1	14	<1	<1	<1	23	<1
22	2	<1	23	7	<1	<1	16	<1	3	<1	120	<1
23	2	<1	20	7	2	<1	10	<1	120	<1	68	<1
24	2	<1	9	4	2	<1	9	<1	6	<1	13	<1
25	2	<1	5	<1	1	<1	73	<1	13	<1	9	<1
26	2	<1	38	1	1	<1	<1	<1	140	2	>1000	<1
27	6	1	38	3	15	<1	4	<1	32	3	<1	<1
28	8	3	39	3	3	<1	<1	<1	33	15	<1	<1
29	4	1	6	1	11	<1	3	<1	110	33	<1	<1
30	6	<1	8	2	4	<1	<1	<1	84	10	5	<1
31	---	---	5	2	---	---	1	<1	10	<1	---	---
MONTH	22	1	150	1	150	1	---	---	---	---	1000	1

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



Moose Creek near mouth at Moose Creek Ranger Station
near Lowell, Idaho

SPOKANE RIVER BASIN

12413500 COEUR D'ALENE RIVER AT CATALDO, ID

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

DRAINAGE AREA.--1,223 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.--Records good except for estimated daily discharges, which are fair. 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)
Apr. 15	0330	*9,820	*39.52	No peaks greater than base discharge.			

Minimum daily, 253 ft³/s Oct. 5, 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	259	404	1080	626	3450	2600	7600	4140	5650	1080	500	560
2	261	375	993	648	2550	2410	6390	4490	5100	1040	490	535
3	258	361	1010	638	2040	2210	5550	5260	4420	989	483	521
4	256	354	1180	584	1740	2120	5660	5560	3900	963	491	505
5	253	333	1180	e450	1520	1960	6990	5210	3530	948	489	488
6	253	295	1640	e340	1360	1810	8080	4570	3520	906	485	472
7	256	280	2500	413	1280	1620	8550	3960	3250	920	552	455
8	260	298	2050	567	1190	1550	8680	3800	2860	905	561	439
9	268	324	1600	613	1110	1790	8330	3790	2590	865	524	430
10	272	339	1330	621	1050	2600	7300	3500	2450	841	492	424
11	272	558	1160	626	1000	3450	6440	3440	2430	812	470	437
12	286	672	1050	625	952	3690	6190	3100	2250	783	456	511
13	336	565	987	616	895	3750	6680	2770	2160	757	444	541
14	367	482	980	611	894	3740	8400	2530	2080	738	437	601
15	358	440	899	624	925	3610	9440	2270	1940	715	427	703
16	386	432	827	655	916	3510	7610	2190	1830	694	421	838
17	450	568	781	672	942	3550	6080	2230	1740	679	415	834
18	429	900	744	682	1400	4160	5170	2240	1650	675	407	933
19	384	1380	709	688	2680	5570	4530	2380	1580	681	406	1050
20	357	1460	669	689	2880	5850	4220	2570	1520	674	414	940
21	392	1200	682	690	2660	4980	3970	2690	1460	657	407	837
22	433	954	684	680	2390	4560	3630	3530	1400	636	416	753
23	403	793	668	703	2180	5110	3420	4340	1340	610	485	697
24	371	708	661	731	2090	6140	3550	4130	1280	592	532	653
25	346	659	711	734	2120	6440	3660	3610	1240	578	784	617
26	331	613	734	709	2210	6210	3630	3350	1200	563	1570	586
27	324	573	714	694	2430	6070	4050	4150	1220	552	1140	561
28	349	536	702	768	2670	5680	5340	4780	1160	539	891	539
29	567	729	675	1120	2710	5110	5230	4880	1190	527	754	521
30	594	1150	609	3870	---	4980	4450	4700	1150	517	662	507
31	471	---	571	4770	---	6410	---	5310	---	509	601	---
TOTAL	10802	18735	30780	27457	52234	123240	178820	115470	69090	22945	17606	18488
MEAN	348	624	993	886	1801	3975	5961	3725	2303	740	568	616
MAX	594	1460	2500	4770	3450	6440	9440	5560	5650	1080	1570	1050
MIN	253	280	571	340	894	1550	3420	2190	1150	509	406	424
AC-FT	21430	37160	61050	54460	103600	244400	354700	229000	137000	45510	34920	36670
CFSM	0.28	0.51	0.81	0.72	1.47	3.25	4.87	3.05	1.88	0.61	0.46	0.50
IN.	0.33	0.57	0.94	0.84	1.59	3.75	5.44	3.51	2.10	0.70	0.54	0.56

SPOKANE RIVER BASIN

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	560	1312	1942	1848	2577	3360	7270	6899	2696	904	483	418
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 2003 CALENDAR YEAR				FOR 2004 WATER YEAR				WATER YEARS 1911 - 2004			
ANNUAL TOTAL	679067				685667				2517			
ANNUAL MEAN	1860				1873				4057			
HIGHEST ANNUAL MEAN									1996			
LOWEST ANNUAL MEAN									1944			
HIGHEST DAILY MEAN	21800				Feb 1				9440			
LOWEST DAILY MEAN	250				Sep 3				253			
ANNUAL SEVEN-DAY MINIMUM	253				Sep 1				257			
ANNUAL RUNOFF (AC-FT)	1347000				1360000				1823000			
ANNUAL RUNOFF (CFSM)	1.52				1.53				2.06			
ANNUAL RUNOFF (INCHES)	20.66				20.86				27.96			
10 PERCENT EXCEEDS	4650				5020				6800			
50 PERCENT EXCEEDS	942				906				1100			
90 PERCENT EXCEEDS	290				405				347			

e Estimated

SPOKANE RIVER BASIN

12413860 COEUR D'ALENE RIVER NEAR HARRISON, ID

LOCATION.--Lat 47°28'43", long 116°43'59"(revised), (NAD83), in NE¹/₄SW¹/₄NW¹/₄ sec.28, T.48 N., R.3 W., Kootenai County, Black Lake quad., Hydrologic Unit 17010303, on left bank 50 ft downstream from Springston Bridge, 2.5 mi upstream from Coeur d'Alene Lake, 3.0 mi northeast of Harrison, and at mile 134.6.

DRAINAGE AREA.--1,475 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1991 to current year (gage heights and discharge measurements only 1991-2003, water-discharge record began March 2004).

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

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. 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 daily discharge, 8,170 ft³/s Apr. 15; minimum daily, 420 ft³/s Aug. 18-21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	3030	6470	4650	5420	e1210	e530	e580
2	---	---	---	---	---	2890	6620	4550	5450	e1170	e520	e550
3	---	---	---	---	---	2790	6020	4990	5000	e1130	e510	e530
4	---	---	---	---	---	2650	5750	5280	4520	e1090	e510	e520
5	---	---	---	---	---	2390	6060	5330	4170	e1060	e510	e510
6	---	---	---	---	---	2370	6810	4980	3910	e1020	e510	e500
7	---	---	---	---	---	2200	7420	4510	3750	e990	e580	e480
8	---	---	---	---	---	2070	7780	4160	3250	e970	e590	e470
9	---	---	---	---	---	2170	8070	4180	3030	e960	e550	e460
10	---	---	---	---	---	2750	7810	4090	2850	e920	e520	e450
11	---	---	---	---	---	3530	7210	3870	2710	e910	e490	e460
12	---	---	---	---	---	3770	6550	3450	2720	e900	e480	e530
13	---	---	---	---	---	3940	6400	3170	2600	e890	e460	e570
14	---	---	---	---	---	3900	7280	2920	2370	e870	e450	e630
15	---	---	---	---	---	3860	8170	2620	2170	e850	e440	e730
16	---	---	---	---	---	3730	8140	2580	1930	e830	e440	e850
17	---	---	---	---	---	3760	7300	2420	1880	e810	e430	e850
18	---	---	---	---	---	3950	6420	2340	e1780	e800	e420	e940
19	---	---	---	---	---	4950	5720	2430	e1710	e790	e420	e1070
20	---	---	---	---	---	5570	5270	2440	e1630	e760	e420	e960
21	---	---	---	---	---	5180	4950	2620	e1540	e750	e420	e850
22	---	---	---	---	---	4820	4600	2870	e1480	e720	e430	e770
23	---	---	---	---	---	4830	4230	3670	e1430	e700	e500	e710
24	---	---	---	---	---	5350	4250	4100	e1380	e670	e540	e670
25	---	---	---	---	---	5940	4290	4030	e1350	e640	e800	e640
26	---	---	---	---	---	5940	4230	3980	e1310	e620	e1670	e610
27	---	---	---	---	---	5930	4100	4300	e1340	e600	e1230	e580
28	---	---	---	---	---	5930	5000	4950	e1300	e580	e940	e550
29	---	---	---	---	---	5540	5380	5170	e1320	e560	e770	e540
30	---	---	---	---	---	5140	5010	5120	e1250	e550	e670	e520
31	---	---	---	---	---	5610	---	5290	---	e540	e620	---
TOTAL	---	---	---	---	---	126480	183310	121060	76550	25860	18370	19080
MEAN	---	---	---	---	---	4080	6110	3905	2552	834	593	636
MAX	---	---	---	---	---	5940	8170	5330	5450	1210	1670	1070
MIN	---	---	---	---	---	2070	4100	2340	1250	540	420	450
AC-FT	---	---	---	---	---	250900	363600	240100	151800	51290	36440	37850

e Estimated

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 2003 TO SEPTEMBER 2004

Date	Time	Instan- taneous dis- charge, cfs (00061)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	
OCT	09...	0935	436	7.1	99	7.5	14.4	40	10.1	3.70	<.010	<.016	<.006	E.002
DEC	09...	0945	1900	7.1	67	-1.5	3.6	26	6.40	2.47	.017	.081	<.006	<.004
MAR	03...	1415	2920	--	--	--	--	--	--	--	--	--	--	--
APR	07...	1240	7350	6.9	40	15.5	6.8	16	3.94	1.52	<.010	E.011	E.003	.004
	27...	1000	4380	--	--	--	--	--	--	--	--	--	--	--
MAY	10...	0940	3820	7.6	48	8.0	9.4	19	4.79	1.69	<.010	.017	<.006	E.003
JUN	08...	1240	3130	7.1	50	15.0	11.8	20	5.13	1.79	<.010	<.016	<.006	E.004
JUL	19...	1400	792	8.4	86	30.0	22.9	33	8.34	2.89	<.010	<.016	<.006	<.004
SEP	01...	1315	155	7.3	80	25.0	17.3	32	8.24	2.80	<.010	.069	<.006	E.003

Date	Phos- phorus, water, unfltrd mg/L (00665)	Total nitro- gen, wat unf by anal ysis, mg/L (62855)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recover- able, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover- able, ug/L (01051)	Mangan- ese, water, fltrd, ug/L (01056)	Mangan- ese, water, unfltrd recover- able, ug/L (01055)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	Sus- pended sediment concentration mg/L (80154)	Sus- pended sediment dis- charge, tons/d (80155)	
OCT	09...	.004	.11	1.28	1.50	31.3	159	2.46	22.6	5.5	49.7	267	293	5	5.9
DEC	09...	.011	.20	1.31	1.41	31.8	178	3.15	16.9	60.5	72.8	219	230	1	5.1
MAR	03...	--	--	--	--	--	--	--	--	--	--	--	--	5	39
APR	07...	.016	.09	.63	1.05	26.9	879	5.69	88.5	31.2	110	101	140	14	278
	27...	--	--	--	--	--	--	--	--	--	--	--	--	2	24
MAY	10...	.005	.05	.77	.79	47.6	146	4.50	12.5	67.2	60.8	131	127	2	21
JUN	08...	.008	.04	.87	.87	51.6	131	3.33	8.4	54.5	54.9	157	153	2	17
JUL	19...	E.002	.07	.90	1.04	47.9	203	4.11	24.7	20.8	65.8	162	176	2	4.3
SEP	01...	.006	.14	1.05	1.14	44.2	169	2.65	11.7	19.8	38.0	213	214	2	.84

< 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 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, 1,380 June 6, gage height, 3.71 ft; minimum daily, 40 ft³/s Jan. 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	e60	e75	e55	e80	e95	243	723	1050	320	135	122
2	74	e70	e80	e55	e70	e90	235	868	1010	303	136	132
3	74	e65	e85	e50	e70	e90	255	1080	997	290	141	125
4	74	e60	e80	e44	e70	e90	322	1190	1040	285	132	120
5	73	e50	e85	e40	e70	e90	404	1330	1070	270	129	116
6	72	e55	139	e44	e70	e85	483	1240	1230	256	128	115
7	72	e55	121	e50	e70	e90	535	1190	991	255	145	111
8	72	e60	e90	e60	e70	e95	548	1230	894	242	129	110
9	83	e65	e85	e70	e65	e95	514	1150	844	233	124	108
10	76	e80	e80	e70	e60	e95	484	1060	809	227	121	106
11	75	e100	e80	e70	e60	e95	478	1010	768	226	118	112
12	90	e90	e80	e70	e55	e100	512	880	702	213	116	127
13	101	e70	e75	e70	e55	e100	585	800	680	203	115	122
14	87	e65	e75	e75	e60	e100	741	757	644	195	113	164
15	87	e70	e70	e75	e65	e100	726	711	599	190	111	158
16	99	76	e65	e75	e75	101	630	750	565	184	112	186
17	98	75	e65	e75	e100	103	565	785	542	180	110	160
18	85	88	e60	e75	151	122	512	795	530	176	113	165
19	81	106	e65	e75	154	172	474	819	525	177	130	157
20	79	91	e75	e75	129	141	455	891	502	177	125	152
21	77	e70	e75	e75	115	141	425	1020	476	167	111	150
22	75	e65	e70	e75	e100	167	407	1240	457	162	122	143
23	76	e70	e70	e75	e100	209	416	1190	441	158	165	144
24	75	e70	e70	e75	e100	231	455	1060	426	154	148	139
25	74	e70	e70	e75	109	208	453	971	451	151	229	134
26	74	e70	e65	e75	106	204	496	986	420	147	242	131
27	74	e70	e60	e90	103	192	612	1220	390	144	173	127
28	92	e75	e55	e100	100	176	748	1340	368	143	145	125
29	148	e75	e55	110	100	174	693	1260	358	143	134	123
30	84	e70	e55	e100	---	199	675	1150	330	140	127	122
31	61	---	e55	e95	---	245	---	1120	---	138	122	---
TOTAL	2537	2156	2330	2218	2532	4195	15081	31816	20109	6249	4201	4006
MEAN	81.8	71.9	75.2	71.5	87.3	135	503	1026	670	202	136	134
MAX	148	106	139	110	154	245	748	1340	1230	320	242	186
MIN	61	50	55	40	55	85	235	711	330	138	110	106
AC-FT	5030	4280	4620	4400	5020	8320	29910	63110	39890	12390	8330	7950

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2004, BY WATER YEAR (WY)

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
MEAN	81.7	97.0	87.3	106	97.7	135	429	1111	996	318	127	93.1
MAX	99.0	157	132	178	162	221	678	1349	2028	634	166	134
(WY)	2000	1998	2000	1999	2003	2003	2000	1998	2002	1999	1999	2004
MIN	65.6	55.8	53.7	55.3	57.2	79.1	161	770	393	156	84.5	60.9
(WY)	2003	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	FOR WATER YEARS 1998 - 2004
ANNUAL TOTAL	111263	97430	
ANNUAL MEAN	305	266	309
HIGHEST ANNUAL MEAN			405
LOWEST ANNUAL MEAN			169
HIGHEST DAILY MEAN	2440	1340	3200
LOWEST DAILY MEAN	50	40	38
ANNUAL SEVEN-DAY MINIMUM	59	48	43
ANNUAL RUNOFF (AC-FT)	220700	193300	224200
10 PERCENT EXCEEDS	801	788	868
50 PERCENT EXCEEDS	124	122	116
90 PERCENT EXCEEDS	70	68	60

e Estimated

SPOKANE RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1997 to September 2002, July to September 2003, April to September 2004.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: July to September 1999, June to September 2001, October 2001 to September 2002, May to September 2004 (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, 20.7 °C July 16, Aug. 1; minimum, 2.2 °C May 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Fecal coliform, M-FC 0.7u MF col/100 mL (31625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
MAY													
04...	1050	1140	31	7.2	18.0	4.3	<2.0	11.0	97	<1	<.010	.11	E.014
26...	1118	1000	32	6.4	12.5	4.9	<2.0	11.6	105	<1	<.010	<.10	<.016
JUN													
28...	1240	373	41	7.4	23.5	10.2	<2.0	10.0	102	S1	<.010	<.10	<.016
JUL													
28...	1430	146	50	7.7	24.5	15.7	2.8	10.2	106	S3	E.005	E.09	<.016
AUG													
30...	1320	128	51	7.5	25.0	13.9	<2.0	8.2	92	S2	<.010	E.10	<.016
SEP													
28...	1200	125	46	7.4	16.0	8.5	<2.0	10.0	100	<1	E.005	E.08	<.016

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Potassium, water, fltrd, mg/L (00935)	Sulfate, water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Suspended sediment, concentration mg/L (80154)	Suspended sediment discharge ton/d (80155)
MAY														
04...	<.006	.025	--	--	--	--	--	--	--	--	--	--	10	31
26...	<.006	.006	--	--	--	--	--	--	--	--	--	--	1	2.7
JUN														
28...	<.006	.008	--	--	--	--	--	--	--	--	--	--	1	1.0
JUL														
28...	E.004	.007	--	--	--	--	--	--	--	--	--	--	2	.79
AUG														
30...	E.004	.005	--	--	--	--	--	--	--	--	--	--	2	.69
SEP														
28...	<.006	.005	20	6.13	1.18	1.08	10	.53	1.0	E.17	<.2	7.4	1	.34

< Less than

E Estimated value

S Most probable value

SPOKANE RIVER BASIN

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

Temperature, water, degrees Celsius
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	6.4	3.6	4.8
6	---	---	---	---	---	---	---	---	---	6.9	2.8	4.7
7	---	---	---	---	---	---	---	---	---	8.0	3.6	5.4
8	---	---	---	---	---	---	---	---	---	5.9	3.4	4.7
9	---	---	---	---	---	---	---	---	---	6.4	3.6	4.8
10	---	---	---	---	---	---	---	---	---	5.0	2.6	3.8
11	---	---	---	---	---	---	---	---	---	5.0	2.3	3.8
12	---	---	---	---	---	---	---	---	---	4.7	2.8	3.7
13	---	---	---	---	---	---	---	---	---	5.3	2.2	3.6
14	---	---	---	---	---	---	---	---	---	7.3	2.6	4.7
15	---	---	---	---	---	---	---	---	---	7.6	2.8	5.2
16	---	---	---	---	---	---	---	---	---	6.5	4.5	5.2
17	---	---	---	---	---	---	---	---	---	7.8	4.2	5.6
18	---	---	---	---	---	---	---	---	---	6.1	4.1	5.1
19	---	---	---	---	---	---	---	---	---	7.5	4.4	5.8
20	---	---	---	---	---	---	---	---	---	8.3	4.4	6.0
21	---	---	---	---	---	---	---	---	---	6.5	4.4	5.2
22	---	---	---	---	---	---	---	---	---	5.5	4.1	4.8
23	---	---	---	---	---	---	---	---	---	6.6	3.9	5.0
24	---	---	---	---	---	---	---	---	---	6.6	3.4	4.9
25	---	---	---	---	---	---	---	---	---	7.0	3.1	5.0
26	---	---	---	---	---	---	---	---	---	6.6	4.7	5.5
27	---	---	---	---	---	---	---	---	---	7.3	4.7	5.9
28	---	---	---	---	---	---	---	---	---	6.4	4.7	5.3
29	---	---	---	---	---	---	---	---	---	5.2	3.8	4.4
30	---	---	---	---	---	---	---	---	---	6.1	3.9	4.9
31	---	---	---	---	---	---	---	---	---	7.6	4.5	5.7
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.6	3.8	5.8	14.8	11.0	13.0	20.7	11.7	16.0	13.6	10.6	12.3
2	9.8	3.8	6.5	15.7	10.0	12.5	18.8	13.1	16.0	12.4	9.8	10.9
3	8.9	4.4	6.7	13.8	10.1	11.8	19.2	13.2	16.1	10.2	8.0	9.0
4	11.0	5.3	7.7	12.1	8.9	10.3	18.8	12.1	15.6	12.0	7.8	9.8
5	9.2	5.2	7.2	14.5	8.7	11.2	19.4	12.1	15.7	11.5	8.1	9.8
6	7.6	5.3	6.2	14.9	9.2	11.8	18.3	11.8	14.8	14.3	7.8	10.6
7	8.3	4.1	5.9	14.0	10.9	12.1	15.2	12.1	13.6	15.7	8.6	11.6
8	7.2	5.5	6.2	12.6	7.5	9.9	18.4	10.1	13.7	14.6	8.1	11.2
9	7.3	5.2	6.3	15.9	7.2	11.0	19.2	10.3	14.4	12.1	8.9	10.6
10	7.0	5.6	6.2	16.8	10.4	13.4	19.7	10.7	15.0	14.1	8.3	10.9
11	6.4	5.5	5.9	15.9	11.0	13.1	20.0	11.2	15.3	11.5	8.7	10
12	9.0	4.2	6.2	17.1	8.7	12.6	20.2	11.0	15.4	11.4	9.2	10.2
13	7.8	5.6	6.7	17.8	9.8	13.4	20.2	11.2	15.5	12.4	8.7	10.2
14	8.0	5.2	6.5	19.1	11.2	14.8	20.0	11.4	15.6	10.2	8.3	9.1
15	8.9	4.8	6.7	20.2	12.0	15.7	20.2	12.1	16.0	8.9	7.5	8.2
16	10.0	4.4	7.2	20.7	12.1	16.1	20.2	13.5	16.6	10.6	7.8	8.9
17	11.2	5.6	8.5	18.8	12.3	15.6	19.9	14.3	17.2	9.6	8.0	8.8
18	9.8	6.1	8.3	19.1	13.5	15.9	18.4	13.7	15.8	8.7	7.8	8.2
19	11.2	6.1	8.2	19.2	13.8	16.2	17.5	12.1	14.3	8.9	6.6	7.7
20	11.0	6.4	8.6	18.4	14.0	16.0	18.6	11.5	14.3	8.7	6.6	7.5
21	12.8	6.9	9.6	18.1	11.2	14.6	20.0	12.6	16.0	7.5	5.5	6.6
22	14.1	7.6	10.7	19.4	10.7	14.8	16.6	13.2	14.3	9.8	5.9	7.8
23	13.3	8.3	11.3	18.6	11.5	15.2	13.2	10.7	11.6	9.6	7.6	8.5
24	13.4	8.9	11.3	20.5	11.8	15.8	10.9	9.6	10.3	12.4	7.8	9.5
25	13.4	9.5	11.4	20.0	12.0	16.0	10.9	9.8	10.3	11.7	6.4	8.8
26	13.1	9.2	11.2	20.4	12.4	16.4	11.2	9.2	10.0	11.5	6.6	8.7
27	14.8	9.3	11.8	18.9	11.8	15.3	13.4	9.3	11.0	11.8	6.6	8.8
28	14.6	9.6	11.9	19.2	10.7	14.8	12.8	9.5	11.0	11.2	6.1	8.5
29	14.6	10.1	12.4	19.9	11.0	15.2	14.5	9.2	11.3	10.9	6.1	8.3
30	16.7	10.3	13.2	18.9	11.7	15.2	16.8	9.3	12.6	9.6	6.4	8.1
31	---	---	---	19.6	11.7	15.5	16.2	9.3	12.7	---	---	---
MONTH	16.7	3.8	8.4	20.7	7.2	14.0	20.7	9.2	14.1	15.7	5.5	9.3

SPOKANE RIVER BASIN

12414500 ST. JOE RIVER AT CALDER, ID

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

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

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

REVISED RECORDS.--WSP 1182: Drainage area.

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

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

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 23	0730	*9,540	*10.00	No other peak greater than base discharge.			

Minimum daily, 200 ft³/s Jan. 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	364	e260	561	e340	1140	1150	4220	4740	6650	1730	627	570
2	364	338	626	e320	890	1080	3670	5390	6020	1630	613	583
3	362	e360	716	e320	e780	1010	3710	6510	5590	1520	663	591
4	358	e320	731	e260	711	992	4360	7010	5420	1470	636	558
5	355	e240	653	e200	646	924	5330	7000	5400	1470	602	539
6	355	e220	1130	e220	579	852	5700	6470	5790	1350	597	523
7	353	e220	1420	e300	580	765	6240	5870	5170	1290	663	511
8	357	e240	983	e420	553	775	6280	6040	4680	1250	627	498
9	362	e320	743	e440	525	1040	5650	5750	4330	1200	583	489
10	377	e380	e600	e440	511	1420	5200	5330	4180	1160	563	485
11	369	863	e550	e440	498	1710	5000	5510	4080	1140	548	486
12	394	670	542	e440	421	1790	5130	4850	3720	1080	534	533
13	498	447	535	e440	e380	1920	5660	4320	3590	1040	523	542
14	504	382	616	e440	e440	1960	7210	3960	3410	1010	513	670
15	443	365	562	e440	e500	1860	7070	3690	3180	965	505	746
16	511	374	e480	e440	e520	1850	5720	3920	2990	931	499	923
17	623	483	e440	e440	541	1960	4920	4200	2840	901	507	799
18	483	583	e420	e440	1000	2350	4390	4260	2740	904	500	778
19	421	780	e360	445	1740	3390	4010	4710	2650	986	509	829
20	400	756	356	440	1550	3090	3850	5040	2570	964	531	719
21	394	551	e480	433	1310	2650	3720	5380	2430	862	516	676
22	382	e400	e460	416	1140	2930	3490	8050	2350	817	497	646
23	388	e360	e420	419	1050	3760	3440	9360	2250	786	654	629
24	393	e360	416	425	1060	4280	3750	8180	2160	759	740	620
25	373	e360	e500	415	1110	3920	3740	6760	2130	735	1110	593
26	367	e360	e480	401	1140	3700	3880	6310	2080	716	1630	574
27	365	e360	e440	400	1220	3520	4570	7060	2020	697	1100	557
28	401	e360	e400	428	1250	3260	5480	7590	1840	682	812	545
29	690	545	e400	594	1210	3020	4980	7850	1980	666	691	534
30	534	690	e360	1770	---	3270	4640	7400	1770	654	630	524
31	357	---	e340	1590	---	4440	---	7210	---	640	592	---
TOTAL	12897	12947	17720	14956	24995	70638	145010	185720	106010	32005	20315	18270
MEAN	416	432	572	482	862	2279	4834	5991	3534	1032	655	609
MAX	690	863	1420	1770	1740	4440	7210	9360	6650	1730	1630	923
MIN	353	220	340	200	380	765	3440	3690	1770	640	497	485
AC-FT	25580	25680	35150	29670	49580	140100	287600	368400	210300	63480	40290	36240
CFSM	0.40	0.42	0.55	0.47	0.84	2.21	4.69	5.82	3.43	1.00	0.64	0.59
IN.	0.47	0.47	0.64	0.54	0.90	2.55	5.24	6.71	3.83	1.16	0.73	0.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2004, BY WATER YEAR (WY)

MEAN	550	988	1331	1172	1533	2088	5286	7974	4601	1370	608	475
MAX	1621	6025	8887	5442	6933	6414	10530	14990	13040	3251	953	839
(WY)	1928	1928	1934	1934	1996	1934	1925	1997	1974	1950	1950	1968
MIN	273	258	288	204	239	539	2073	3285	1154	554	356	303
(WY)	1988	1930	1953	1929	1929	1964	1975	1941	1926	1926	1940	2001

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1911 - 2004
ANNUAL TOTAL	697877	661483	
ANNUAL MEAN	1912	1807	2332
HIGHEST ANNUAL MEAN			3955
LOWEST ANNUAL MEAN			1059
HIGHEST DAILY MEAN	15100	Feb 1 9360	May 23 40000
LOWEST DAILY MEAN	220	Nov 6 200	Jan 5 100
ANNUAL SEVEN-DAY MINIMUM	274	Nov 3 274	Nov 3 154
ANNUAL RUNOFF (AC-FT)	1384000	1312000	1690000
ANNUAL RUNOFF (CFSM)	1.86	1.75	2.26
ANNUAL RUNOFF (INCHES)	25.20	23.89	30.76
10 PERCENT EXCEEDS	4940	5330	6400
50 PERCENT EXCEEDS	750	718	993
90 PERCENT EXCEEDS	368	365	373

e Estimated

SPOKANE RIVER BASIN

12415140 ST JOE RIVER NEAR CHATCOLET, ID

LOCATION.--Lat 47°21'37", long 116°41'26", (NAD83), in NW¹/₄NW¹/₄SW¹/₄ sec.2, T.46 N., R.3 W., Benewah County, Benewah Lake quad., Hydrologic Unit 17010304, on left bank 0.4 mile upstream from Silvertip Landing, and at mile 5.4.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1991 to December 1992 (mean daily gage-heights only), November 2002 to December 2003 (discharge measurements only), March to September 2004.

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is 2,100.00 ft above NGVD of 1929. January 1991 to December 1992, recording gage located 0.3 mi downstream at datum 6.64 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. Elevation affected by backwater from Coeur d'Alene Lake.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge for period March to September, 11,300 ft³/s May 23; minimum daily, 580 ft³/s Aug. 22.

DAY	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	2680	5960	e5800	7570	1770	e700	e850
2	---	---	---	---	---	2510	5100	e6400	6830	1710	e680	e810
3	---	---	---	---	---	2400	4870	e7100	6220	e1650	e740	e850
4	---	---	---	---	---	2220	5510	e7500	5880	e1620	e700	e910
5	---	---	---	---	---	2120	6410	e7500	5860	e1630	e680	e840
6	---	---	---	---	---	2070	6690	e7100	5950	e1520	e660	e760
7	---	---	---	---	---	1890	7140	e6500	5620	e1430	e720	e720
8	---	---	---	---	---	2010	7160	e6600	5030	e1400	e760	e680
9	---	---	---	---	---	2590	6800	e6300	4630	e1340	e720	e670
10	---	---	---	---	---	3220	6230	e5900	4500	e1290	e680	e660
11	---	---	---	---	---	3530	5930	e6100	4560	e1270	e650	e650
12	---	---	---	---	---	3520	5920	5530	4120	e1200	e620	e670
13	---	---	---	---	---	3810	6310	4820	3890	e1160	e610	e680
14	---	---	---	---	---	3760	7470	4470	3640	e1110	e600	e800
15	---	---	---	---	---	3680	8040	4060	3470	e1080	e600	e930
16	---	---	---	---	---	3740	7090	4130	3260	e1040	e590	e1090
17	---	---	---	---	---	4080	6020	4600	2960	e1010	e600	e1150
18	---	---	---	---	---	4590	5340	4610	3000	e1020	e590	e1010
19	---	---	---	---	---	5680	5170	5090	2860	e1200	e600	e1040
20	---	---	---	---	---	5200	4910	5230	2810	e1180	e610	e1070
21	---	---	---	---	---	4400	4950	5690	2620	e1090	e590	e990
22	---	---	---	---	---	4590	4630	9520	2490	e990	e580	e880
23	---	---	---	---	---	5520	4410	11300	2400	e910	e760	e820
24	---	---	---	---	---	6320	4670	10100	2200	e870	e860	e760
25	---	---	---	---	---	6040	4660	8430	2210	e850	e1250	e740
26	---	---	---	---	---	5670	4670	7360	2120	e820	e1900	e710
27	---	---	---	---	---	5450	5200	7620	2140	e800	e2050	e700
28	---	---	---	---	---	5370	6270	7990	1880	e780	e1760	e680
29	---	---	---	---	---	4620	5930	8380	1920	e760	e1400	e660
30	---	---	---	---	---	4820	e5600	8130	1730	e740	e1220	e630
31	---	---	---	---	---	6050	---	7990	---	e720	e970	---
TOTAL	---	---	---	---	---	124150	175060	207850	114370	35960	26450	24410
MEAN	---	---	---	---	---	4005	5835	6705	3812	1160	853	814
MAX	---	---	---	---	---	6320	8040	11300	7570	1770	2050	1150
MIN	---	---	---	---	---	1890	4410	4060	1730	720	580	630
AC-FT	---	---	---	---	---	246300	347200	412300	226900	71330	52460	48420

e Estimated

SPOKANE RIVER BASIN
12415140 ST JOE RIVER NEAR CHATCOLET, ID

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2002 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)
OCT 08...	1240	418	7.1	65	19.5	14.9	29	8.42	1.90	<.010	<.016	<.006	.004
DEC 08...	1450	1480	6.9	57	2.0	1.6	22	6.26	1.64	E.005	.026	E.005	.008
MAR 03...	1050	2270	--	--	--	--	--	--	--	--	--	--	--
APR 06...	1320	6870	6.3	42	19.5	6.5	16	4.60	1.16	<.010	<.016	E.003	.005
27...	1300	4300	--	--	--	--	--	--	--	--	--	--	--
MAY 06...	1230	6860	6.9	34	18.0	8.3	14	4.19	.908	<.010	<.016	<.006	.012
JUN 09...	0955	4920	7.4	39	17.5	10.8	16	4.71	1.03	<.010	<.016	E.004	.006
JUL 19...	1055	1200	8.0	60	25.0	21.8	23	6.90	1.44	<.010	<.016	<.006	.004
SEP 01...	0945	521	7.1	60	22.0	17.4	24	6.89	1.53	<.010	<.016	<.006	.007

Date	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfltrd by analysis, mg/L (62855)	Cadmium, water, fltrd, ug/L (01025)	Cadmium, water, unfltrd, ug/L (01027)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd, recoverable, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd, recoverable, ug/L (01051)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, unfltrd, recoverable, ug/L (01055)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd, recoverable, ug/L (01092)	Suspended sediment concentration, mg/L (80154)	Suspended sediment charge, tons/d (80155)
OCT 08...	.012	.20	<.04	<.04	71.1	157	E.06	.10	1.0	8.1	.6	--	--	--
DEC 08...	.019	.15	<.04	<.04	90.9	375	.08	.24	9.6	12.8	2.5	2.8	3	12
MAR 03...	--	--	--	--	--	--	--	--	--	--	--	--	3	18
APR 06...	.015	.09	<.04	<.04	29.8	270	<.08	.2	5.4	9.2	.7	<2	7	130
27...	--	--	--	--	--	--	--	--	--	--	--	--	3	35
MAY 06...	.011	.07	<.04	<.04	21.4	197	<.08	.1	5.1	7.0	E.5	<2	7	130
JUN 09...	.013	.04	<.04	<.04	43.8	154	--	E.05	5.7	6.1	1.0	<2	3	40
JUL 19...	.010	.10	<.04	<.04	50.6	167	E.05	.1	1.1	9.8	<.6	<2	2	6.5
SEP 01...	.013	.17	<.04	<.04	90.0	233	E.07	.1	1.5	8.6	.7	<2	3	4.2

< 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°46'17" (revised), (NAD83), in NE¹/₄NW¹/₄SE¹/₄ sec.24, T.50 N., R.4 W., Kootenai County, Coeur D'Alene quad., Hydrologic Unit 17010303, 500 ft southwest of south end of Eleventh Street, Coeur d'Alene, and 113.1 mi upstream from mouth of Spokane River.

DRAINAGE AREA.--3,700 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, 243,300 acre-ft Aug. 26, elevation, 2,128.10 ft; minimum, 28,400 acre-ft Jan. 13-17, elevation, 2,121.06 ft.

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

21.0	26,800	27.0	195,300
23.0	80,700	29.0	288,100
25.0	135,200		

GAGE HEIGHT, in FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.76	24.75	23.72	---	22.84	23.77	26.06	25.78	27.84	27.91	27.84	27.91
2	26.72	24.67	23.70	---	22.96	23.78	26.09	25.79	27.86	27.88	27.83	27.89
3	26.69	24.59	23.68	---	23.00	23.78	26.09	25.89	27.86	27.81	27.86	27.88
4	26.66	24.52	23.61	---	22.98	23.77	26.10	26.04	27.84	27.77	27.85	27.91
5	26.63	24.43	23.60	21.28	22.93	23.74	26.19	26.14	27.87	27.78	27.87	27.89
6	26.60	24.32	23.60	21.20	22.88	23.66	26.35	26.20	27.83	27.83	27.88	27.87
7	26.56	24.21	23.66	21.18	22.83	23.59	26.53	26.20	27.79	27.83	27.91	27.88
8	26.52	24.12	23.67	21.15	22.75	23.54	26.68	26.20	27.82	27.83	27.91	27.89
9	26.48	24.06	23.62	21.13	22.66	23.55	26.81	26.15	27.83	27.85	27.91	27.88
10	26.44	24.05	23.57	21.11	22.56	23.65	26.85	26.11	27.90	27.88	27.92	27.87
11	26.40	23.98	23.48	21.10	22.48	23.80	26.84	26.15	27.91	27.91	27.93	27.93
12	26.40	23.96	23.37	21.09	22.38	23.94	26.80	26.23	27.88	27.92	27.94	27.94
13	26.36	23.91	23.32	21.08	22.28	24.07	26.82	26.25	27.88	27.95	27.95	27.98
14	26.34	23.84	23.25	21.07	22.21	24.18	26.89	26.28	27.88	27.97	27.95	28.00
15	26.35	23.80	23.12	21.08	22.15	24.26	27.08	26.29	27.89	28.00	27.95	28.04
16	26.36	23.79	23.01	21.07	22.11	24.36	27.14	26.32	27.88	28.00	27.95	28.02
17	26.35	23.74	22.84	21.08	22.11	24.41	27.09	26.40	27.88	27.97	27.96	27.96
18	26.33	23.74	22.69	21.10	22.35	24.53	26.96	26.48	27.90	27.96	27.93	27.88
19	26.29	23.78	22.55	21.10	22.70	24.73	26.80	26.60	27.96	27.97	27.94	27.84
20	26.29	23.81	22.42	21.10	22.95	24.92	26.62	26.79	27.99	27.94	27.94	27.84
21	26.26	23.82	22.30	21.11	23.11	25.02	26.46	27.05	28.00	27.89	27.95	27.83
22	26.26	23.77	22.18	21.10	23.20	25.09	26.27	27.46	28.00	27.85	27.96	27.78
23	26.16	23.74	22.08	21.15	23.25	25.21	26.08	27.75	27.99	27.86	27.96	27.74
24	26.06	23.72	22.04	21.23	23.30	25.38	25.92	27.87	27.98	27.87	28.02	27.70
25	25.89	23.72	21.98	21.24	23.35	25.55	25.80	27.90	27.97	27.88	28.08	27.66
26	25.71	23.68	21.92	21.27	23.43	25.67	25.73	27.86	27.94	27.86	28.08	27.60
27	25.55	23.63	21.86	21.23	23.55	25.82	25.72	27.81	27.94	27.84	28.04	27.53
28	25.38	23.62	21.79	21.25	23.65	25.87	25.76	27.77	27.94	27.85	28.02	27.48
29	25.18	23.65	21.73	21.44	23.72	25.86	25.81	27.79	27.96	27.85	27.97	27.41
30	25.02	23.68	21.64	22.08	---	25.88	25.80	27.77	27.95	27.86	27.94	27.33
31	24.87	---	21.56	22.58	---	25.95	---	27.80	---	27.84	27.89	---
MEAN	26.19	23.97	22.82	---	22.85	24.56	26.40	26.75	27.91	27.88	27.94	27.81
MAX	26.76	24.75	23.72	---	23.72	25.95	27.14	27.90	28.00	28.00	28.08	28.04
MIN	24.87	23.62	21.56	---	22.11	23.54	25.72	25.78	27.79	27.77	27.83	27.33
†	131700	99200	41800	69400	100300	161500	157300	229000	236100	230900	233200	208200
‡	-55900	-32500	-57400	27600	30900	61200	-4200	71700	7100	-5200	2300	-25000

CAL YR 2003 MEAN 25.82 MAX 28.23 MIN 21.56 † -38900
WTR YR 2004 MAX 28.08 MIN 21.07 † 20600

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

SPOKANE RIVER BASIN

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

LOCATION.--Lat 47°40'34", long 116°48'05", in NW¹/₄SE¹/₄NW¹/₄ sec.8, T.44 N., R.1 W., Kootenai County, Coeur D'Alene quad., Hydrologic Unit 17010305, on right bank, 450 ft upstream from bridge on State Highway 3, 0.3 mi upstream from Santa Creek, 2.7 mi northwest of Santa, and at mile 24.6

DRAINAGE AREA.--275 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2002 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)
OCT													
14...	0800	1100	7.2	50	6.5	12.1	21	5.61	1.62	<.010	E.009	<.006	<.004
DEC													
09...	1330	3640	7.0	51	2.5	5.7	20	5.37	1.67	E.007	.037	E.003	E.004
JAN													
20...	1250	1760	7.0	52	3.0	3.6	21	5.78	1.70	<.010	.026	<.006	E.002
APR													
08...	0900	13400	7.8	54	11.5	6.6	22	5.80	1.86	E.006	.040	<.006	<.004
MAY													
03...	1045	10300	7.3	50	17.5	11.2	20	5.26	1.56	<.010	.031	<.006	<.004
JUN													
08...	0735	8760	7.4	47	12.5	13.4	18	4.96	1.45	<.010	<.016	<.006	<.004
JUL													
26...	0815	1110	7.2	50	23.0	23.1	20	5.64	1.53	<.010	.031	<.006	E.003
SEP													
08...	1430	645	7.4	52	27.5	20.0	20	5.42	1.56	.021	.075	<.006	.004

Date	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfltrd by analysis, mg/L (62855)	Cadmium, water, fltrd, ug/L (01025)	Cadmium, water, unfltrd, ug/L (01027)	Iron, water, fltrd, ug/L (01046)	Iron, water, recoverable, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, recoverable, ug/L (01051)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, recoverable, ug/L (01055)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, recoverable, ug/L (01092)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, ton/sd (80155)
OCT														
14...	.004	.17	.12	.15	E5.2	13.5	.09	.68	.6	3.6	38.3	39.3	2	5.9
DEC														
09...	.007	.15	.19	.23	E4.3	40.9	.14	1.24	.7	5.2	58.8	60.4	2	20
JAN														
20...	E.004	.10	.18	.19	<6.4	14.4	.12	.6	.9	3.0	55.9	57.5	1	4.8
APR														
08...	.007	.16	.25	.31	10.3	48.9	.28	1.5	.5	4.5	68.9	72.1	.0	.00
MAY														
03...	.005	.13	.21	.25	13.9	48.6	.35	1.5	.6	4.2	55.9	56.6	2	56
JUN														
08...	.007	.05	.21	.24	6.7	34.4	.14	1.1	.3	4.3	49.8	52.9	1	24
JUL														
26...	.005	.15	.15	.18	E6.3	17.1	.17	.7	1.8	3.2	35.6	36.7	.0	.00
SEP														
08...	.006	.18	.09	.12	<6.4	25.6	.13	.9	3.4	4.7	26.3	27.9	1	1.7

< Less than
E Estimated value

SPOKANE RIVER BASIN

12419000 SPOKANE RIVER NEAR POST FALLS, ID

LOCATION.--Lat 47°42'11", long 116°58'37", in SW¹/₄SW¹/₄SW¹/₄ sec.4, T.50 N., R.5 W., Kootenai County, Post Falls quad., Hydrologic Unit 17010305, on right bank, 1 mi downstream from powerplant of Avista Utilities, 1.5 mi southwest of Post Falls, and at mile 100.7.

DRAINAGE AREA.--3,840 mi², approximately, of which about 122 mi² in the vicinity of Hayden Lake is noncontributing to this station.

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

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,100 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 discharge, 15,700 ft³/s May 23, gage height, 15.76 ft; minimum daily, 374 ft³/s Aug. 12.

DAY	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1090	2500	2040	2370	4030	6050	11700	10600	13000	3640	736	1240
2	1100	2240	2680	2360	4310	6140	11900	10600	12700	3860	644	1110
3	1100	2180	2990	2310	4600	6160	12000	10500	12000	3510	585	893
4	1090	2180	3480	2230	4630	6180	12000	10700	11700	2820	580	758
5	1090	2170	3810	2120	4600	6170	11900	11000	11000	2230	579	756
6	1090	2170	3810	1990	4380	6060	12300	11300	10600	1750	583	755
7	1090	2170	3810	1880	4280	5880	12800	11400	10000	1830	579	702
8	1090	2170	3820	1880	4270	5780	13300	11400	8710	1690	575	643
9	1100	2160	3670	1880	4170	5710	13700	11400	8170	1360	577	643
10	1100	2160	3570	1870	4060	5800	13900	11000	7410	1130	581	643
11	1100	2140	3980	1870	3800	6100	14000	9110	7010	1130	478	642
12	1100	2140	4150	1810	3790	6330	13900	8130	7500	1120	374	641
13	1100	2130	4080	1770	3640	6660	13900	7740	7070	944	440	643
14	1100	2130	4070	1770	3490	7040	14000	7180	6020	897	571	641
15	1100	2120	4050	1780	3400	7190	14400	6760	5860	1060	576	1250
16	1250	2130	4050	1770	3290	7380	14700	6640	5590	1560	575	2410
17	1300	2100	4120	1770	3190	7610	14700	6140	4880	1820	579	3310
18	1200	2100	3890	1770	3380	7760	14600	5800	4200	1820	576	3750
19	1200	2130	3740	1780	3800	8120	14200	5790	3870	1810	573	2970
20	1190	2140	3700	1770	4320	8600	13800	5790	4050	1810	574	1800
21	1240	2150	3670	1860	4560	8910	13200	6010	4220	1810	575	1980
22	1270	2160	3270	1860	4800	9350	12700	8410	4250	1390	577	2140
23	1930	2160	3080	1840	5020	9420	12200	13100	4080	1010	677	2150
24	2680	2010	3000	1840	5090	9930	11700	13800	3810	1120	906	2150
25	3390	1800	2920	1850	5210	10300	11100	13500	3710	1120	1660	2170
26	3840	1830	2810	2130	5270	10700	10300	13500	3700	1120	3450	2290
27	3780	1830	2770	2120	5370	11000	10300	14100	3660	991	3570	2390
28	4030	1820	2740	2080	5800	11300	10500	14500	3420	838	2340	2370
29	3930	1820	2630	2200	5820	11400	10900	14400	3160	751	2400	2380
30	3890	1820	2550	2640	---	11400	10700	14500	3170	743	1830	2330
31	3760	---	2450	3500	---	11400	---	13500	---	736	1440	---
TOTAL	56320	62760	105400	62670	126370	247830	381300	318300	198520	49420	30760	48550
MEAN	1817	2092	3400	2022	4358	7995	12710	10270	6617	1594	992	1618
MAX	4030	2500	4150	3500	5820	11400	14700	14500	13000	3860	3570	3750
MIN	1090	1800	2040	1770	3190	5710	10300	5790	3160	736	374	641
AC-FT	111700	124500	209100	124300	250700	491600	756300	631300	393800	98020	61010	96300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2004, BY WATER YEAR (WY)												
MEAN	1750	2855	4847	5156	6266	8195	14370	17360	9610	2089	931	1185
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1913 - 2004	
ANNUAL TOTAL	1752774		1688200			
ANNUAL MEAN	4802		4613		6189	
HIGHEST ANNUAL MEAN					11600	
LOWEST ANNUAL MEAN					2143	
HIGHEST DAILY MEAN	17800	Feb 4	14700	Apr 16	49800	Dec 25 1933
LOWEST DAILY MEAN	274	Aug 25	374	Aug 12	67	Jul 24 1973
ANNUAL SEVEN-DAY MINIMUM	275	Aug 23	513	Aug 11	108	Aug 10 1966
ANNUAL RUNOFF (AC-FT)	3477000		3349000		4484000	
10 PERCENT EXCEEDS	11800		11700		17000	
50 PERCENT EXCEEDS	3350		3180		2990	
90 PERCENT EXCEEDS	456		757		900	