USGS
science for a changing world

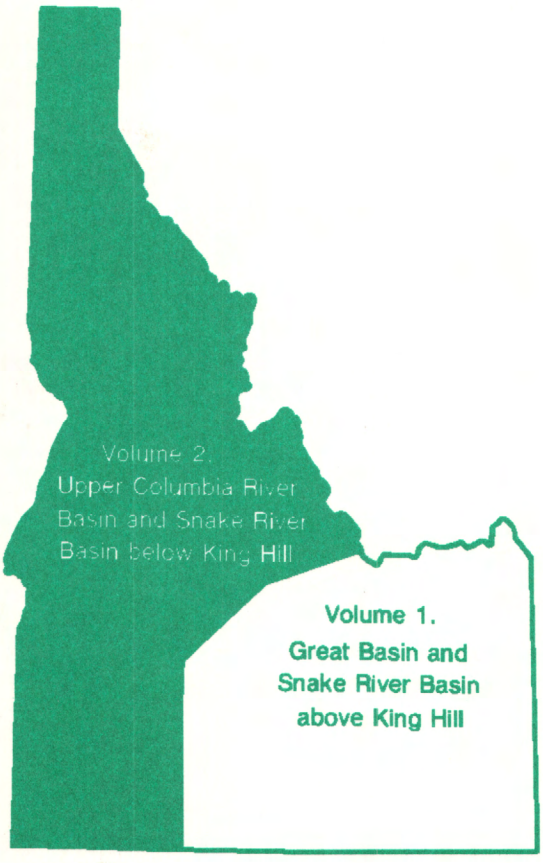
BUREAU OF RECLAMATION DENVER LIBRARY
92088240
SURPLUS

LIBRARY
MAY 10 2001
Bureau of Reclamation
Reclamation Service Center

Water Resources Data Idaho Water Year 2000

Volume 2. Upper Columbia River Basin and Snake River Basin below King Hill

Water-Data Report ID-00-2



U.S. Department of the Interior
U.S. Geological Survey

Prepared in cooperation with the
State of Idaho
and with other agencies

CALENDAR FOR WATER YEAR 2000

1999

OCTOBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

NOVEMBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

DECEMBER

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

2000

JANUARY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

FEBRUARY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29				

MARCH

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

APRIL

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

MAY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

JUNE

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

JULY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

AUGUST

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

SEPTEMBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

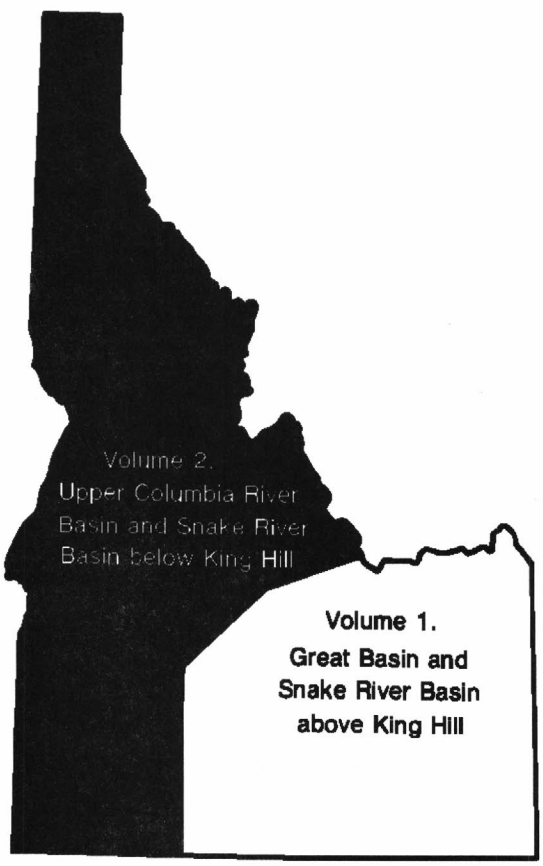
U.S. Department of the Interior
U.S. Geological Survey

Water Resources Data Idaho Water Year 2000

Volume 2. Upper Columbia River Basin and Snake River Basin below King Hill

By T.S. Brennan, A.M. Campbell, A.K. Lehmann and I. O'Dell

Water-Data Report ID-00-2



Prepared in cooperation with the
State of Idaho and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

GALE A. NORTON, Secretary

U.S. GEOLOGICAL SURVEY

CHARLES G. GROAT, Director

For information on the water program in Idaho, write to
District Chief, Water Resources Division
U.S. Geological Survey
230 Collins Road
Boise, Idaho 83702-4520

Preface

This volume of the annual hydrologic data report of Idaho is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface-, ground-, and quality-of-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by Federal, State, and local agencies and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who revised, edited, illustrated, and assembled the report. In addition to the authors who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

Rick L. Backsen
Sandra A. Ball
Jay E. Bateman
Joseph T. Bunt, Jr
H. Russ Christensen
Donald G. Cole
Jack D. Doyle
William C. Damschen
George W. Eisele
Peter S. Elliott
Robert W. Erickson
John O. Gralow
Deena F. Green
Keith L. Hein
Nathan D. Jacobson
Kevin F. Kirlin
Stan G. Landon
Doreen MacCoy
Terry R. Maret
Marcia Medford
Susan E. Moore
Sabrina A. Nichols
Michael A. Nolevanko
Robert E. Reaves
Alvin A. Sablan
Theresa M. Sanchez
James L. Schaefer
Kenneth D. Skinner
Brandee Thomas
Brad D. VandeKamp
Douglas C. Werner
Paul F. Woods
Frank W. Youngkin

This report was prepared in cooperation with the State of Idaho and with other agencies under the general supervision of Stephen W. Lipscomb, Hydrologic Data Section Chief, and Derrill J.Cowing, District Chief.

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY *(Leave blank)*	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
	March 27, 2001	Annual -- Oct. 1, 1999 to Sept. 30, 2000

4. TITLE AND SUBTITLE

Water Resources Data -- Idaho, Water Year 2000, Volume 2. Upper Columbia River Basin and Snake River Basin below King Hill.

5. FUNDING NUMBERS

6. AUTHOR(S)

T. S. Brennan, A. M. Campbell, A. K. Lehmann and I. O'Dell

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)

U.S. Geological Survey, Water Resources Division
Idaho District
230 Collins Road
Boise, Idaho 83702-4520

8. PERFORMING ORGANIZATION REPORT NUMBER

USGS-WDR-ID-00-2

9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)

U.S. Geological Survey, Water Resources Division
Idaho District
230 Collins Road
Boise, Idaho 83702-4520

10. SPONSORING / MONITORING AGENCY REPORT NUMBER

USGS-WDR-ID-00-2

11. SUPPLEMENTARY NOTES

Prepared in cooperation with Federal, State, and local agencies.

12a. DISTRIBUTION / AVAILABILITY STATEMENT

No restriction on distribution. This report may be purchased from National Technical Information Service, Springfield, Virginia 22161.

12b. DISTRIBUTION CODE

13. ABSTRACT *(Maximum 200 words)*

Water resources data for the 2000 water year for Idaho consists of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; discharge of irrigation diversions; and water levels and water quality of groundwater. The two volumes of this report contain discharge records for 191 stream-gaging stations and 19 irrigation diversions; stage only records for 6 stream-gaging stations; stage only for 6 lakes and reservoirs; contents only for 16 lakes and reservoirs; water-quality for 116 stream-gaging stations and partial record sites, 3 lakes sites, and 390 groundwater wells; and water levels for 537 observation wells. Additional water data were collected at various sites not involved in the systematic data collection program and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Idaho, adjacent States, and Canada.

14. SUBJECT TERMS

*Idaho, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperature, Sampling sites, Water levels, Water analyses

15. NUMBER OF PAGES

402

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
Unclassified	Unclassified		

CONTENTS

Page

Preface ... iii
List of surface-water stations, in downstream order, for which records are published in this volume ... vii
List of counties for which ground-water well records are published in this volume ... xi
List of discontinued surface-water discharge or stage-only stations ... xii
List of discontinued surface-water quality stations ... xix
Introduction ... 1
Cooperation ... 2
Summary of hydrologic conditions ... 3
Summary of streamflow and reservoir conditions ... 3
Summary of ground-water conditions ... 5
Summary of water-quality conditions ... 7
Definition of terms ... 8
Downstream order and station number ... 20
Numbering system for wells and miscellaneous sites ... 20
Idaho well-numbering system ... 21
Special networks and programs ... 22
Explanation of the records ... 23
Records of stage and water discharge ... 23
Data collection and computation ... 23
Data presentation ... 24
Identifying estimated daily discharge ... 27
Accuracy of field data and computed results ... 27
Other records available ... 27
Records of surface-water quality ... 28
Classification of records ... 28
Arrangement of records ... 28
On-site measurements and sample collection ... 28
Water temperature ... 29
Sediment ... 29
Laboratory measurements ... 30
Data presentation ... 30
Remark codes ... 31
Water quality-control data ... 31
Records of ground-water levels ... 33
Data collection and computation ... 33
Data presentation ... 33
Aquifer names ... 33
Records of ground-water quality ... 34
Data collection and computation ... 34
Data presentation ... 34
Access to USGS water data ... 34
Publications on Techniques of Water-Resources Investigations ... 35
Station records, surface-water ... 47
Discharge at partial-record stations and miscellaneous sites ... 278
Analyses of samples collected at water quality partial-record stations and miscellaneous sites ... 280
Analyses of samples collected at Payette Lake sites ... 297
Station records, ground water ... 308
Quality of ground water ... 361
Index ... 377

ILLUSTRATIONS

Page

Figure 1. Graph showing discharge during 2000 water year compared with median discharge for period 1961-90 for two representative gaging stations 4

2. Map showing water-level changes in selected observation wells 6

3. Diagram showing system for numbering wells and miscellaneous sites 20

4. Diagram showing Idaho well-numbering system 21

5-9. Maps showing locations of surface-water and water-quality stations in:

5. North Idaho 40

6. North-central Idaho 41

7. West-central Idaho 42

8. East-central Idaho 43

9. Southwest Idaho 44

10-18. Schematic diagrams showing gaging stations in:

10. Kootenai River basin 45

11. Pend Oreille River basin 63

12. Spokane River basin 77

13. Snake River basin between King Hill and Murphy and the Bruneau River basin 149

14. Boise, Owyhee, Malheur and middle Snake River basins 170

15. Payette and Weiser River basins 199

16. Snake River between Brownlee Reservoir and Anatone and the Salmon River basin 221

17. Clearwater and Palouse River basins 248

19-23. Maps showing locations of observation wells and ground-water-quality sites in:

19. North Idaho 303

20. North-central Idaho 304

21. West-central Idaho 305

22. East-central Idaho 306

23. Southwest Idaho 307

TABLES

Table 1. Comparative reservoir storage data 5

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

Letter After Station Name Designates Type of Data:
(d) Discharge, (c) Chemical, (m) Microbiological, (p) Precipitation,
(t) Temperature, (e) Elevation or Contents, (s) Sediment, (b) Biology

	Station number	Page
UPPER COLUMBIA RIVER BASIN		
COLUMBIA RIVER		
KOOTENAI RIVER BASIN		
Yaak River near Troy, MT (dcst)	12304500	47
Kootenai River at Leonia (d)	12305000	50
Moyie River at Eastport (de)	12306500	52
Kootenai River at Bonners Ferry (e)	12309500	54
Kootenai River at Klockmann Ranch, near Bonners Ferry (e)	12314000	55
Boundary Creek near Porthill (d)	12321500	57
Kootenai River at Porthill (det)	12322000	58
Kootenay Lake at Kuskonook, British Columbia (e)	12322500	62
PEND OREILLE RIVER BASIN		
Clark Fork below Cabinet Gorge Dam, near Cabinet (dcmst)	12391950	64
Clark Fork at Whitehorse Rapids, near Cabinet (d)	12392000	67
Lightning Creek at Clark Fork (d)	12392155	68
Lake Pend Oreille near Hope (e)	12392500	69
PRIEST RIVER		
Priest Lake at Outlet, near Coolin (e)	12393000	70
Priest River near Coolin (d)	12394000	71
Priest River near Priest River (dcmt)	12395000	72
Pend Oreille River at Newport, WA (d)	12395500	76
SPOKANE RIVER BASIN		
COEUR D'ALENE RIVER		
North Fork Coeur d'Alene River		
North Fork Coeur d'Alene River above Shoshone Creek, near Prichard (dcb)	12411000	78
Prichard Creek at mouth at Prichard (dcb)	12411935	81
North Fork Coeur d'Alene River at Enaville (dcmst)	12413000	84
South Fork Coeur d'Alene River		
South Fork Coeur d'Alene River above Deadman Gulch near Mullan (dc)	12413040	88
Canyon Creek near Burke (cb)	12413118	90
Canyon Creek at Woodland Park (c)	12413123	91
Canyon Creek above mouth at Wallace (dc)	12413125	92
Ninemile Creek		
East Fork Ninemile Creek above mouth near Blackcloud (c)	12413127	94
Ninemile Creek above mouth at Wallace (dc)	12413130	95
Placer Creek at Wallace (dc)	12413140	97
South Fork Coeur d'Alene River at Silverton (dcb)	12413150	99
Moon Creek above mouth at Elk Creek (c)	12413190	101
South Fork Coeur d'Alene River at Elizabeth Park, near Kellogg (dc)	12413210	102
South Fork Coeur d'Alene River at Kellogg (t)	12413250	104
Government Gulch near mouth at Smelterville (c)	12413290	106
South Fork Coeur d'Alene River at Smelterville (t)	12413300	107
East Fork Pine Creek above Gilbert Creek near Pinehurst (dt)	12413360	109
East Fork Pine Creek above Nabob Creek near Pinehurst (dtb)	12413370	111
Pine Creek below Amy Gulch near Pinehurst (dct)	12413445	114
South Fork Coeur d'Alene River near Pinehurst (dcmstb)	12413470	118
Coeur d'Alene River at Cataldo (dc)	12413500	123
Coeur d'Alene River at Rose Lake (ec)	12413810	125
Coeur d'Alene River near Harrison (ec)	12413860	127

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

	Station number	Page
SPOKANE RIVER BASIN--Continued		
COEUR D'ALENE RIVER--Continued		
St. Joe River		
St. Joe River at Red Ives Ranger Station (d)	12413875	129
St. Joe River at Calder (dcmst)	12414500	130
St. Maries River near Santa (dc)	12414900	133
Coeur d'Alene Lake at Coeur d'Alene (e)	12415500	135
Hayden Lake at Hayden Lake (e)	12417000	137
Spokane River near Post Falls (dcmst)	12419000	138
Spokane River above Liberty Bridge near Otis Orchard, WA (c)	12419500	141
Spokane River at Greenacres, WA (c)	12420500	143
Spokane River at Sullivan Road Bridge near Trentwood, WA (c)	12420800	144
Spokane River below Green Street at Spokane, WA (c)	12422000	145
Spokane River at Spokane, WA (cs)	12422500	146
Hangman Creek at Spokane, WA (c)	12424000	147
Spokane River at Long Lake, WA (c)	12433000	148
SNAKE RIVER BASIN		
DIVERSIONS FROM SNAKE RIVER BETWEEN SNAKE RIVER AT KING HILL AND SNAKE RIVER BELOW C.J. STRIKE DAM		
King Hill Irrigation District Pumping Plant at King Hill (d)	13154510	150
CANYON CREEK BASIN		
Canyon Creek at Oregon Trail Crossing near Mountain Home (d)	13159800	151
McCalley Dam outflow at Mountain Home Air Force Base (d)	131610556	152
BRUNEAU RIVER BASIN		
Bruneau River at Rowland, NV (ds)	13161500	153
Jarbidge River below Jarbidge, NV (ds)	13162225	155
Bruneau River near Hot Spring (dcmst)	13168500	157
Big Jacks Creek near Bruneau (d)	13169500	160
DIVERSIONS FROM SNAKE RIVER BETWEEN SNAKE RIVER AT KING HILL AND SNAKE RIVER BELOW C.J. STRIKE DAM--Continued		
Snake River Irrigation District Canal near Grand View (d)	13171100	161
Grand View Irrigation District Canal near Grand View (d)	13171200	162
Grand View Mutual Canal near Grand View (d)	13171300	163
C.J. Strike Reservoir near Grand View (e)	13171500	164
Snake River below C.J. Strike Dam near Grand View (d)	13171620	165
Snake River near Murphy (dcmstb)	13172500	166
DIVERSIONS FROM SNAKE RIVER BETWEEN SNAKE RIVER NEAR MURPHY AND SNAKE RIVER AT NYSSA		
Swan Falls Irrigation District Canal near Murphy (d)	13172505	171
Reynolds Irrigation District Pumping Plant near Walters Ferry (d)	131726449	172
West End Project Canal near Melba (d)	13172775	173
Gem Pumping Plant near Marsing (d)	13172840	174
OWYHEE RIVER BASIN		
Owyhee River near Rome, OR (d)	13181000	175
Owyhee River below Owyhee Dam, OR (d)	13183000	176
BOISE RIVER BASIN		
Boise River near Twin Springs (dcmst)	13185000	177
South Fork Boise River near Featherville (d)	13186000	180
South Fork Boise River at Anderson Ranch Dam (d)	13190500	181
Mores Creek above Robie Creek, near Arrowrock Dam (d)	13200000	182
Lucky Peak Lake near Boise (e)	13201500	183
Boise River near Boise (d)	13202000	184
Boise River below Diversion Dam near Boise (cms)	13203510	186
Diversions from Boise River between gaging stations near Boise and at Glenwood Bridge (d)	13205995	187

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

	Station number	Page
SNAKE RIVER BASIN--Continued		
BOISE RIVER BASIN--Continued		
Boise River at Glenwood Bridge near Boise (dcms)	13206000	188
Boise River South Channel at Eagle (d)	13206305	190
Boise River near Middleton (cms)	13210050	191
Diversions from Boise River between gaging stations at Glenwood Bridge and near Parma (d)	13212996	192
Boise River near Parma (cms)	13213000	193
Snake River at Nyssa (dcmstb)	13213100	194
MALHEUR RIVER BASIN		
Malheur River below Nevada Dam near Vale, OR (d)	13233300	198
PAYETTE RIVER BASIN		
South Fork Payette River		
South Fork Payette River at Lowman (d)	13235000	200
Deadwood River below Deadwood Reservoir, near Lowman (d)	13236500	201
Middle Fork Payette River		
Middle Fork Payette River near Crouch (d)	13237920	203
North Fork Payette River		
North Fork Payette River below Fisher Creek, near McCall (dc)	13238322	204
Payette Lake at McCall (e)	13238500	206
North Fork Payette River at McCall (dc)	13239000	207
Lake Fork Payette River above Jumbo Creek, near McCall (d)	13240000	209
North Fork Payette River at Cascade (d)	13245000	210
North Fork Payette River near Banks (d)	13246000	211
Payette River near Horseshoe Bend (d)	13247500	212
Payette River near Emmett (d)	13249500	213
Payette River near Letha (d)	13250000	214
Payette River near Payette (d)	13251000	215
WEISER RIVER BASIN		
Weiser River near Cambridge (d)	13258500	216
Weiser River near Weiser (dcmst)	13266000	217
Snake River at Weiser (d)	13269000	220
Brownlee Reservoir at Brownlee Dam, Idaho-Oregon State Line (e)	13289700	222
Snake River at Hells Canyon Dam, Idaho-Oregon State Line (d)	13290450	223
Snake River at Johnson Bar, Idaho-Oregon State Line (e)	13290460	224
SALMON RIVER BASIN		
Valley Creek at Stanley (d)	13295000	225
Salmon River below Yankee Fork near Clayton (ds)	13296500	226
Thompson Creek near Clayton (d)	13297330	229
Squaw Creek		
Bruno Creek near Clayton (d)	13297350	230
Squaw Creek below Bruno Creek, near Clayton (d)	13297355	231
Pahsimeroi River at Ellis (d)	13302005	232
Salmon River at Salmon (d)	13302500	233
Lemhi River near Lemhi (d)	13305000	234
Lemhi River below L5 diversion near Salmon (d)	13305310	235
Panther Creek		
Napias Creek below Arnett Creek near Leesburg (d)	13306385	236
Middle Fork Salmon River at Middle Fork Lodge near Yellow Pine (d)	13309220	237
Middle Fork Salmon River at mouth near Shoup (d)	13310199	239
South Fork Salmon River near Krassel Ranger Station (d)	13310700	240
East Fork of South Fork Salmon River		
Johnson Creek at Yellow Pine (d)	13313000	241
South Fork Salmon River at mouth near Mackay Bar (d)	13314300	242

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

	Station number	Page
SNAKE RIVER BASIN--Continued		
SALMON RIVER BASIN--Continued		
Little Salmon River at Riggins (d)	13316500	243
Salmon River at White Bird (dcmstb)	13317000	244
Snake River near Anatone, WA (dt)	13334300	249
CLEARWATER RIVER BASIN		
Selway River above Moose Creek near Moose Creek Ranger Station (d)	13335690	251
Moose Creek at mouth near Moose Creek Ranger Station (d)	13335700	252
Selway River near Lowell (d)	13336500	253
Lochsa River near Lowell (d)	13337000	254
South Fork Clearwater River at Stites (d)	13338500	255
Lolo Creek near Greer (d)	13339500	256
Clearwater River at Orofino (dt)	13340000	257
North Fork Clearwater River near Canyon Ranger Station (dt)	13340600	259
Dworshak Reservoir near Ahsahka (e)	13340950	261
Clearwater River near Peck (dt)	13341050	262
Lapwai Creek near Lapwai (dcmstb)	13342450	266
Clearwater River at Spalding (dt)	13342500	270
PALOUSE RIVER BASIN		
Palouse River near Potlatch (dcmstb)	13345000	273
South Fork Palouse River		
Paradise Creek at University of Idaho at Moscow (d)	13346800	277

COUNTIES FOR WHICH GROUND-WATER WELL RECORDS ARE PUBLISHED IN THIS VOLUME

County	Page
ADA COUNTY	308
ADAMS COUNTY	321
BOISE COUNTY	323
BONNER COUNTY	324
CANYON COUNTY	325
CUSTER COUNTY	334
ELMORE COUNTY	335
GEM COUNTY	340
KOOTENAI COUNTY	343
LATAH COUNTY	345
LEMHI COUNTY	347
LEWIS COUNTY	349
NEZ PERCE COUNTY	350
OWYHEE COUNTY	352
PAYETTE COUNTY	358
VALLEY COUNTY	359
WASHINGTON COUNTY	360

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Idaho have been discontinued. Daily streamflow or stage records were collected and published for the period or record, expressed in water years, shown for each station. Information regarding these stations may be obtained from the District Office at U.S. Geological Survey, WRD, 230 Collins Road, Boise, Idaho 83702-4520.

Station name	Station number	Drainage area (mi^2)	Period of record (water year)
Columbia River Basin			
Kootenai River Basin			
Kootenai River at Libby, MT	12303000	10,240	1910-91
Boulder Creek near Leonia	12305500	56	1928-72, 1973-77
Kootenai River at Katka	12306000	11,860	1928-33
Moyie River at Synder	12307000	656	1911-14, 1919-23
Moyie River at Eileen	12307500	755	1926-79
Cow Creek near Bonners Ferry	12309000	17.5	1928-34
Kootenai River near Bonners Ferry	12310000	13,000	1928-69
Deep Creek at Moravia	12311000	133	1928-72
Snow Creek near Moravia	12311500	19.5	1928-34
Caribou Creek near Moravia	12312000	13.	1928-34
Myrtle Creek near Bonners Ferry	12313000	42.1	1928-34
Ball Creek near Bonners Ferry	12313500	26.6	1928-34, 1971-79
Rock Creek near Copeland	12315200	16.6	1928-34
Trout Creek near Copeland	12315400	20	1928-34
Mission Creek near Copeland	12316800	23	1958-82
Mission Creek at Copeland	12317000	31	1928-34
Brush Creek near Copeland	12317500	7.2	1933-34
Diking District No.4 near Copeland	12317600	--	1970, 1974-75
Kootenai River near Copeland	12318500	13,400	1928-92
Parker Creek near Copeland	12319500	16.5	1928-34
Long Canyon Creek near Porthill	12320500	29	1931-59
Smith Creek below Diversion near Porthill	12320700	--	1990-92
Smith Creek near Porthill	12321000	70	1928-60
Pend Oreille River Basin			
Pack River near Colburn	12392300	124	1958-83
Pack River above Rapid Lightning Creek near Colburn	12392390	219	1989-93
Rapid Lightning Creek near Colburn	12392400	48.0	1963-68
Rapid Lightning Creek near Colburn	12392450	48.6	1989-90
Sand Creek near Sandpoint	12392660	36.6	1989-90, 1991-93
Blanchard Creek above Reservoir near Blanchard	12392895	31.46	1980-83, 1984-86
Priest River at Outlet of Priest Lake near Coolin	12393500	572	1912-48
Priest River at Falk Ranch near Priest River	12394500	792	1911-12
Spokane River Basin			
Coeur d'Alene River at Prichard	12411500	441	1912-14
Coeur d'Alene River near Prichard	12412000	583	1944-53
North Fork Coeur d'Alene River near Enaville	12412500	170	1912
Placer Creek at Wallace	12413140	14.9	1968-97
South Fork Coeur d'Alene River at Silverton	12413150	108	1967-88
Big Creek near Kellogg	12413180	20.9	1970-75
South Fork Coeur d'Alene River at Kellogg	12413250	194	1974-82
South Fork Coeur d'Alene River at Smelterville	12413300	202	1967-74
West Fork Pine Creek near Pinehurst	12413400	10.8	1967-71
Latour Creek near Cataldo	12413700	24.8	1967-71
St. Joe River at Avery	12414000	594	1911-17
Marble Creek near Calder	12414200	138	1984-88
Big Creek above East Fork near Calder	12414350	38.83	1981
St. Maries River at Lotus	12415000	437	1912-13, 1920-66
St. Joe River at St. Maries	12415075	1,725	1991-93

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (mi^2)	Period of record (water year)
Columbia River Basin--Continued			
Spokane River Basin--Continued			
St. Joe River near Chatcolet	12415140	--	1991-93
Plummer Creek near Plummer	12415250	--	1991-93
Fighting Creek near Rockford Bay	12415285	--	1991-93
Carlin Creek near Harrison	12415290	--	1991-93
Wolf Lodge Creek near Coeur d'Alene	12415350	39.4	1986-95
Hayden Creek below North Fork near Hayden Lake	12416000	22.0	1948-54, 1959, 1966-97
Hayden Creek near Hayden Lake	12416500	26	1946-48
Hayden Lake Irrigation District Div near Hayden Lake	12417500	--	1946-53
Spokane Valley Farms Company Canal near Post Falls	12418500	--	1911-17, 1920-66
Twin Lakes near Rathdrum	12419200	41.2	1965-68
Hangman Creek near Tensed	12422950	125	1981-82, 1989-90
Snake River Basin			
King Hill Creek near King Hill	13155000	83.6	1913, 1938-41
King HIll Irrigation District Pumping Plant at Glenns Ferry	13155074	--	1991-94
Little Canyon Creek at Stout Crossing near Glenns Ferry	13155300	14.2	1966-72
Morrow Reservoir Feeder Canal near Glenns Ferry	13155350	--	1962-65
Little Canyon Creek at Berry Ranch near Glenns Ferry	13155400	26.9	1961-66
Little Canyon Creek near Glenns Ferry	13155500	52.4	1909-13, 1939-43
Little Canyon Creek at Glenns Ferry	13155620	--	1985-89
Alkali Creek near Glenns Ferry	13155700	37.1	1985-87
Sailor Creek Pumping Plant near Glenns Ferry	13155750	--	1988-96
Grindstone Butte Pumping Plant near Glenns Ferry	13155800	--	1985-99
Cold Springs Creek near Hammett	13156000	65	1910-13, 1985-87
Bennett Creek near Bennett	13156500	21.3	1938-45
Bennett Creek near Hammett	13157000	68.6	1910-13, 1985-87
Danskin Cattle Company Pumping Plant near Hammett	13157015	--	1989-97
Chalk Flats Pumping Plant near Hammett	13157105	--	1988-95
Bledsoe Farm Pumping Plant near Hammett	13157110	--	1988-95
Upper Indian Cove Canal near Hammett	13157120	--	1986-91
Lower Indian Cove Canal near Hammett	13157125	--	1986-91
Wes Farris Pumping Plant near Hammett	13157130	--	1989-96
Browns Creek at Highway 78 Crossing near Hammett	13157150	--	1980-81
Flying H Ranch Pumping Plant near Hammett	13157160	--	1988-97
West Indian Cove Canal near Hammett	13157291	--	1987-91
Mecham and Sons Pumping Plant near Hammett	13157293	--	1988-95
Rocking R Ranch Canal near Hammett	13157296	--	1986-97
South Elmore Canal near Hammett	13157300	--	1985-99
Sand Dunes Farm Pumping Plant near Hammett	13157305	--	1988-97
Eagle Cove Pumping Plant near Hammett	13157310	--	1988-93
Triple C Farm Pumping Plant near Hammett	13157315	--	1988-97
Ken Johns and Son Pumping Plant near Bruneau	13157325	--	1988-97
River Ranch Pumping Plant near Bruneau	13157340	--	1989-99
Roger Young Pumping Plant near Bruneau	13157370	--	1988-97
Rattlesnake Creek near Mountain Home	13157500	27	1917
Willowdale Creek near Bennett	13158000	5.04	1917-18
Long Tom Creek below Long Tom Reservoir near Bennett	13159000	18.6	1917-18, 1924-26
Syrup Creek near Mountain Home	13159500	32.6	1917-18
Canyon Creek near Mountain Home	13160000	90.9	1917-18
Mountain Home Feeder Canal near Mountain Home	13160500	--	1924-69
Mountain Home Coop Canal near Mountain Home	13161000	--	1924-47
Simplot No.4 Farm Canal near Grand View	13161070	--	1987-98
Bruneau River near Tindall	13162000	440	1910-12

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (mi^2)	Period of record (water year)
Columbia River Basin--Continued			
Snake River Basin--Continued			
East Fork Jarbidge River near Three Creek	13162500	84.6	1929-33, 1954-72
Sheep Creek near Tindall	13163000	180	1911-13
Marys Creek neat Owyhee, NV	13163500	27	1914-15
Marys Creek at Tindall	13164000	110	1910-13
Louse Creek near Wickahoney	13164500	76	1911
Big Flat Creek near Three Creek	13165000	62	1912-14, 1916
Three Creek near Three Creek	13165500	45	1912-14, 1916
Cherry Creek near Three Creek	13166000	22	1913-14, 1916
Deadwood Creek near Three Creek	13166500	22	1912-14, 1916
East Fork Bruneau River below Three Creek near Three Creek	13167000	210	1953-60
East Fork Bruneau River near Hot Springs	13167500	620	1910-15, 1949-72
Bruneau River near Winter Camp Ranch	13168000	1,890	1947-51
Hot Springs Ditch below heading near Bruneau	13168600	--	1985-90
Buckaroo Ditch at Hot Springs	13169000	--	1912-14, 1985-90
Little Jacks Creek near Bruneau	13170000	100	1939-50
Basin Mutual Canal near Bruneau	13170300	--	1985-93
Grand View Farms No.3 Pumping Plant near Bruneau	13170350	--	1989-94
Grand View Canal near Grand View	13170500	--	1912-15
Little Valley Mutual Canal near Bruneau	13170700	--	1985-97
Grand View Realty Pumping Plant near Grand View	13170800	--	1985-87, 1988-1996
Bybee Lateral near Grand View	19170900	--	1985-97
Triangle Dairy Relift Canal near Grand View	13170910		1986
Bruneau River at mouth near Grand View	13171000	2,650	1895-97, 1899-1903, 1909-16, 1945-50
Grand View Mutual Canal above Grand View Irrigation District Canal near Grand View	13171340	--	1987-88
Grand View Mutual Canal below Grand View Irrigation District Canal near Grand View	13171345	--	1987-88
Castle Creek near Castle Creek	13172000	150	1910-12
K.C. Farms Canal near Oreana	13172240	--	1985-90
Murphy Flat Canal near Murphy	13172410	--	1986-97
Sinker Butte Canal near Murphy	13172420	--	1986-93
Jump Creek near Homedale	13172890	--	1989-94
Succor Creek near Homedale	13173000	417	1919-23
Succor Creek at mouth near Homedale	13173500	--	1903-05, 1907-10, 1988-93
Jordan Creek at Delamar Mine near Jordan Valley, OR	13177985	--	1994-96
Jordan Creek above Lone Tree Creek near Jordan Valley, OR	13178000	440	1946-53, 1955-72
Lake Owyhee near Nyssa, OR	13182500	11,160	1933-96
Owyhee River near Owyhee, OR	13184000	11,300	1890-97, 1903-16, 1920-29
Middle Fork Boise River near Twin Springs	13184500	382	1947-50, 1977-81
Banner Creek above Pikes Fork near Lowman	13184870	--	1995-98
Cottonwood Creek at Arrowrock Reservoir	13185500	20.9	1914-18, 1939-42
Lime Creek near Bennett	13186500	131	1945-56
Fall Creek near Anderson Ranch Dam	13187000	55.3	1945-56
Little Camas Canal at Heading near Bennett	13189000	--	1917-18, 1924-73
Little Camas Canal below Tunnel No. 9 near Bennett	13189500	--	1917-18, 1924-26
Anderson Ranch Reservoir at Anderson Ranch Dam	13190000	980	1950-96
South Fork Boise River near Lenox	13191000	1,090	1911-48
Smith Creek near Lenox	13191500	50.3	1916-17
Long Gulch Creek near Lenox	13192000	10.5	1916
Rattlesnake Creek near Lenox	13192500	46	1916-17
Willow Creek near Lenox	13193000	55.1	1916-17

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (mi^2)	Period of record (water year)
Columbia River Basin--Continued			
Snake River Basin--Continued			
Grouse Creek near Arrowrock Dam	13193500	8.0	1939-41
Arrowrock Reservoir at Arrowrock Dam	13194000	2,210	1918-96
Boise River at Dowling Ranch near Arrowrock	13194500	2,220	1911-55
Gold Hill Placer diversion from Moore Creek near Idaho City	13195000	--	1939-41
Moore Creek above Granite Creek near Idaho City	13195500	37	1939-41
Granite Creek near Idaho City	13196000	4.8	1939-41
Bannock Creek near Idaho City	13196500	5.75	1939-42, 1951-72
Pine Creek above Barry Placer diversion near Idaho City	13197000	6.1	1940-41
Pine Creek near Idaho City	13197500	6.5	1939-40
Elk Creek above Gold Hill Placer diversion near Idaho City	13198000	13.1	1940
Elk Creek near Idaho City	13198500	22.3	1939-40
Mores Creek above Thorn Creek near Idaho City	13199000	119	1939-41
Grimes Creek at New Centerville	13199500	--	1966
Robie Creek near Arrowrock Dam	13200500	15.8	1951-72
Mores Creek near Arrowrock	13201000	426	1916-54
New York Canal below Diversion Dam near Boise	13203000	--	1986-95
Lake Lowell near Caldwell	13203500	--	1918-78
Boise River below Diversion Dam near Boise	13203510	2,680	1987-94
Boise River at Barber	13203700	2,690	1936
Diversions from Boise River between near Boise and at Boise gages	13204500	--	1919-83
Cottonwood Gulch at Boise	13205000	16	1939-41
Boise River at Boise	13205500	2,760	1940-83
Americana Blvd Storm Sewer at Boise	13205525	--	1973-74
Crane Creek at 1206 Ranch Road at Boise	13205633	7.21	1980-86
Spring Valley Creek near Boise	13206500	20	1912
Spring Valley Creek near Eagle	13207000	20.9	1955-59, 1961-72
Dry Creek near Eagle	13207500	59.4	1954-68
Dry Creek at Eagle	13208000	--	1954-57
Boise River (North Channel) near Eagle	13208500	--	1936-38
Boise River (South Channel) near Eagle	13209500	--	1936-38
Boise River near Middleton	13210050	3,050	1975-97
Mason Creek near Caldwell	13210983	--	1981-82
Mason Creek at mouth at Caldwell	13211000	--	1895-96
Indian Creek above Waste Water Plant near Nampa	13211309	--	1982-96
Indian Creek at mouth near Caldwell	13211445	--	1981-83
Diversions from Boise River between at Boise and at Notus gages	13212000	--	1919-73
Boise River at Notus	13212500	3,820	1920-37, 1946-74
Dixie Drain near Wilder	13212890	--	1981-82
Diversions from Boise River between at Boise and near Parma gages	13212995	--	1974-83
Boise River near Parma	13213000	3,970	1938-39, 1971-97
Sand Run Gulch near Parma	13213072	--	1979-81
Clear Creek at Lowman	13234500	59.6	1941-49
Deadwood River near Bernard	13235500	10.4	1930-32
Deadwood Reservoir near Lowman	13236000	112	1936-96
Deadwood River near Lowman	13237000	230	1921-53
South Fork Payette River near Garden Valley	13237500	779	1921-60
Cabin Creek near Smiths Ferry	13237600	0.42	1961-67
Control Creek near Smiths Ferry	13237700	0.59	1964-67
Payette River near Banks	13238000	1,200	1921-74
Fish Hatchery Diversion at McCall	13239500	--	1943-53
Lake Fork Payette River above Reservoir near McCall	13240500	54.6	1926-45
Lake Fork Reservoir near McCall	13241000	64	1926-73
Lake Fork Payette River near McCall	13241500	64	1910-14
L.I.D. Canal near McCall	13242000	--	1926-73

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (mi^2)	Period of record (water year)
Columbia River Basin--Continued			
Snake River Basin--Continued			
Lake Fork Payette River below L.I.D. Canal near McCall	13242500	64	1941-74
Cruzen Canal at Lake Fork	13243000	--	1938-48
Gold Fork River near Roseberry	13243500	143	1920-21, 1962-70
North Fork Payette River at Van Wyck	13244000	608	1912-16, 1920-25
Cascade Reservoir at Cascade	13244500	620	1948-96
North Fork Payette River near Smiths Ferry	13245500	893	1941-47
Payette River at Banks	13246500	2,120	1922-29
Porter Creek near Gardena	13247000	21.2	1939-45
Shafer Creek at Horseshoe Bend	13248000	28	1912
Harris Creek near Horseshoe Bend	13248500	17	1912-13
Squaw Creek near Gross	13249000	21	1925-28
Payette River near Letha	13250000	2,760	1952-54, 1979-87
Payette River near New Plymouth	13250500	2,850	1952-54
Big Willow Creek near Emmett	13250600	47.4	1962-83
West Branch Weiser River near Tamarack	13251300	3.96	1959-78
Weiser River at Tamarack	13251500	36.5	1937-72, 1974-76
Weiser River above East Fork Weiser River near Fruitvale	13252000	--	1937-39
East Fork Weiser River near Council	13252500	2.0	1932-43
East Fork Weiser River near Starkey	13253000	--	1937-39
Weiser River at Starkey	13253500	106	1939-49
Lost Valley Reservoir near Tamarack	13254000	29.4	1924, 1926-66
Lost Creek near Tamarack,	13254500	29.4	1910-14, 1920-21, 1924-69, 1980-83
West Fork Weiser River near Fruitvale	13255000	78	1911-13, 1920-25, 1937-49
West Fork Weiser River near Fruitvale	13255050	--	1981-82
Weiser River near Fruitvale	13255060	--	1981-83
Hornet Creek near Council	13255500	107	1937-43
Weiser River near Council	13256000	390	1937-53
Mesa Orchards Canal near Mesa	13256500	--	1924-55
Middle Fork Weiser River above Fall Creek near Mesa	13256800	59.2	1988-89
Middle Fork Weiser River near Mesa	13257000	86.5	1911-13, 1919-22, 1937-49, 1981-83, 1985-88
Johnson Creek below Johnson Park near Council	13257500	5	1941-49
Bacon Creek near Mesa, ID	13258000	0.71	1943-49
Rush Creek Powerplant Tailrace near Cambridge	13259000	--	1929-30
Rush Creek at Cambridge	13259500	32	1938-43
Pine Creek near Cambridge	13260000	54	1938-62
Little Weiser River below Mill Creek near Indian Valley	13260500	79	1923, 1981-83
Little Weiser River near Indian Valley	13261000	81.9	1920-21, 1923-27, 1938-71
C Ben Ross Feeder Canal near Indian Valley	13261100	--	1981-82
C Ben Ross Reservoir near Indian Valley	13261150	--	1981-82
Little Weiser Irrigation District Canal near Indian Valley	13261200	--	1981-82
Little Weiser River near Cambridge	13261500	187	1920-26
Sage Creek near Midvale	13262000	5.56	1913
Sommercamp Creek near Midvale	13262500	2.5	1913
Miller Creek near Midvale	13263000	0.96	1913
Weiser River above Crane Creek near Weiser	13263500	1,160	1920-52
Crane Creek Reservoir near Midvale	13264000	242	1924-69, 1980-82
Crane Creek near Midvale	13264500	242	1911-16, 1924-69
Crane Creek Irrigation District Canal near Weiser	13265000	--	1920-26
Crane Creek at mouth near Weiser	13265500	288	1920-74, 1981-82
Galloway Canal near Weiser	13266500	--	1920-69

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (mi^2)	Period of record (water year)
Columbia River Basin--Continued			
Snake River Basin--Continued			
Mann Creek Reservoir near Weiser	13266900	--	1967-70
Mann Creek near Weiser	13267000	56	1911-13, 1920-21, 1937-62
Mann Creek below Mann Creek Dam near Weiser	13267050	--	1967-71
Monroe Creek (Upper Station) near Weiser	13267500	7.2	1912
Monroe Creek (Lower Station) near Weiser	13268000	29.1	1911-13
Monroe Creek above Sheep Creek near Weiser	13268500	32	1946-49
Wildhorse River at Brownlee Dam	13289960	177	1979-96
Snake River at Oxbow, OR	13290000	72,800	1926-58, 1968-71
Pine Creek near Pine, OR	13290190	230	1967-96
Snake River below Pine Creek at Oxbow, OR	13290200	73,150	1958-68
Snake River near Joseph, OR	13290500	73,800	1956-71
Salmon River near Obsidian	13292500	94.7	1941-53
Alturas Lake Creek near Obsidian	13293000	35.7	1941-52
Salmon River near Pierson	13293500	235	1911-14
Lake Creek near Stanley	13294000	44	1911-13
Salmon River at Stanley	13294500	355	1921-25
Valley Creek at Stanley	13295000	147	1911-14, 1921-73
Salmon River below Valley Creek at Stanley	13295500	501	1925-61
Yankee Fork Salmon River near Clayton	13296000	195	1921-49
Salmon River below Yankee Fork near Clayton	13296500	802	1922-91
Warm Springs Creek at Robinson Bar	13297000	81	1921-23
Little Boulder Creek near Clayton	13297450	18.4	1970-86
Big Boulder Creek near Clayton	13297500	27.5	1926-30
Herd Creek below Trail Gulch near Clayton	13297597	110	1980-85
East Fork Salmon River near Clayton	13298000	532	1929-39, 1973-82
Salmon River near Challis	13298500	1,800	1929-73
Challis Creek near Challis	13299000	85	1944-63
Challis Creek below Jeffs Creek near Challis	13299200	91.2	1963-71
Pahsimeroi River near Goldburg	13299500	65	1910-13
Pahsimeroi River below Sinks near Goldburg	13300000	176	1913
Goldburg Creek near Goldburg	13300500	54	1910
Goldburg Creek near Patterson	13301000	69	1913
Big Creek above Diversion near Patterson,	13301500	54.8	1910-13
Pahsimeroi River at Dowton Lane near May	13301900	--	1985-87
Pahsimeroi River at Bursted Lane near Ellis	13301990	--	1985-87
Pahsimeroi River near May	13302000	845	1930-59, 1971-72
Texas Creek near Leadore	13303000	71.4	1939, 1955-63
Timber Creek near Leadore	13303500	57	1912, 1939
West Fork Timber Creek near Leadore	13304000	16.5	1912
Big Springs Creek near Leadore	13304200	--	1959-61
Eightmile Creek near Leadore	13304500	20	1912
Lemhi River at Salmon	13305500	1,270	1928-43
North Fork Salmon River at North Fork	13306000	214	1912, 1930-40
Napias Creek above Arnett Creek near Leesburg	13306375	21.9	1989-91
Panther Creek near Shoup	13306500	529	1945-78
Salmon River near Shoup	13307000	6,270	1944-82
Marsh Creek near Cape Horn	13307500	73	1922, 1924
Beaver Creek at Cape Horn	13308000	54	1922, 1924
Middle Fork Salmon River near Capehorn	13308500	183	1929-72
Bear Valley Creek near Capehorn	13309000	180	1921-60
Middle Fork Salmon River near Meyers Cove	13309500	2,020	1931-39
Big Creek near Big Creek	13310000	470	1945-59
South Fork Salmon River near Knox	13310500	92	1929-61

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (mi^2)	Period of record (water year)
Columbia River Basin--Continued			
Snake River Basin--Continued			
Dollar Creek near Warm Lake near Cascade	13310520	16.5	1990-94
Blackmare Creek near Poverty Flat near Cascade	13310565	17.8	1990-94
South Fork Salmon River at Poverty Flat near Cascade	13310570	221.5	1990-92
Little Buckhorn Creek near Krassel Ranger Station	13310660	5.99	1990-94
West Fork Buckhorn Creek near Krassel Ranger Station	13310670	22.6	1990-94
East Fork South Fork Salmon River at Stibnite	13311000	19.6	1928-43, 1983-97
East Fork South Fork Salmon River near Stibnite	13311500	42.5	1928-41
East Fork South Fork Salmon River near Yellow Pine	13312000	104	1928-43
Johnson Creek near Landmark Ranger Station	13312500	54.7	1943-49
Secesh River near Burgdorf	13313500	104	1943-52
Tailholt Creek near Yellow Pine	13313800	2.6	1959-62
South Fork Salmon River near Warren	13314000	1160	1931-43
Warren Creek near Warren	13314500	37	1943-50
Salmon River near French Creek	13315000	12,270	1945-56
Mud Creek near Tamarack	13315500	15.8	1937-38, 1946-59
Boulder Creek near Tamarack	13316000	6.5	1938-45
John Day Creek below diversion near Lucille	13316530	--	1988-89
John Day Creek near mouth near Lucille	13316535	--	1987-89
North Fork Skookumchuck Creek near White Bird	13316800	15.3	1961-72
Deer Creek near Winchester	13317500	19.1	1952-57
Selway River above Meadow Creek near Lowell	13336000	1,550	1945-49
Meadow Creek near Lowell	13336100	241	1964-70
Gedney Creek near Selway Falls	13336300	48.15	1981-82
Walton Creek near Powell Ranger Station	13336635	11.6	1986-88
Warm Springs Creek near Powell Ranger Station	13336800	74.7	1957-59
Fish Creek near Lowell	13336900	89.2	1958-67
Clear Creek near Kooskia	13337100	100	1962-63, 68,1971-73
South Fork Clearwater River near Elk City	13337500	261	1945-75
South Fork Clearwater River near Grangeville	13338000	865	1911-16, 1923-63
Lawyer Creek near Nezperce	13338800	150	1967-75
Clearwater River at Kamiah	13339000	4,850	1910-66
Orofino Creek above Whiskey Creek near Orofino	13339800	191	1982-83
North Fork Clearwater River at Bungalow Ranger Station	13340500	996	1945-69
Beaver Creek near Canyon Ranger Station	13340615	51.7	1984-88
Little North Fork Clearwater River near Elk River	13340760	262	1971-75
Breakfast Creek near Elk River	13340780	129	1971-74
Reeds Creek near Headquarters	13340855	62.6	1983-87
North Fork Clearwater River at Ahsahka	13341000	2,440	1926-68
Long Hollow Creek near Nezperce	13341128	17.66	1980-86
East Fork Potlatch River below Mallory Creek near Bovill	13341200	18.2	1959-60
Bloom Creek near Bovill	13341300	3.15	1959-72
East Fork Potlatch River near Bovill	13341400	41.6	1959-72
Potlatch River at Kendrick	13341500	425	1946-60
Mission Creek near Winchester	13342000	16.5	1942-45
Twentyone Ranch Spring near Waha	13342200	--	1958-60
Clearwater River Near Lewiston	13343000	9,640	1911-14, 1926-27
Cow Creek at Genesee	13350448	34.3	1980-83, 1984-86

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

The following stations were discontinued as continuous-record surface-water-quality stations prior to the current year. Daily records of temperature, specific conductance, pH, dissolved oxygen or sediment were collected and published for the record shown for each station. Information regarding these stations may be obtained from the District Office at U.S. Geological Survey, WRD, 230 Collins Road, Boise, Idaho 83702-4520.

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water year)
	Columbia River Basin			
	Kootenai River Basin			
Kootenai River at Leonia	12305000	11,740	Temp.	1962-63, 1965-86
Kootenai River near Copeland	12318500	13,400	Temp.	1966-82
			S.C.	1979-83
			Sed.	1966-83
Kootenai River at Porthill	12322000	13,770	S.C., Sed.	1983-91
Priest River near Priest River	12395000	902	Temp.	1998
	Spokane River Basin			
Big Creek above East Fork near Calder	12414350	39	S.C., Sed.	1981
	Snake River Basin			
Bruneau River near Hot Springs	13168500	2,630	Temp.	1997
Snake River near Murphy	13172500	41,900	Temp.	1997
Boise River near Twin Springs	13185000	830	Temp.	1955-57, 1959, 1977-79, 1997-98
South Fork Boise River near Featherville	13186000	635	Temp.	1963-65, 1977, 1978-79
South Fork Boise River at Anderson Ranch Dam	13190500	982	Temp.	1977-79
South Fork Boise River at Neal Bridge near Arrowrock	13192200	--	Temp.	1977-79
Mores Creek above Robie Creek near Arrowrock	13200000	399	Temp.	1965-67, 1969-72
Boise River below Diversion dam near Boise	13203510	2,680	Temp.	1997
Boise River at Notus	13212500	3,820	Temp.	1957, 1959-67, 1969-73
			S.C.	1952-73
Boise River near Parma	13213000	3,970	S.C.	1973-75, 1976, 1977
Snake River at Nyssa, OR	13213100	58,700	Temp.	1975, 1989-90, 1997
			S.C.	1975, 1977, 1989-90
			pH	1989-90
			D.O.	1989-90
South Fork Payette River at Lowman	13235000	456	Temp.	1998
Boiling Springs (left channel) at Boiling Springs Guard Station	13237538	--	Temp.	1978-81
Payette River near Banks	13238000	1,200	Temp.	1971-73
North Fork Payette River at McCall	13239000	144	Temp.	1998
North Fork Payette River at Cascade	13245000	620	Temp.	1998
North Fork Payette River near Banks	13246000	933	Temp.	1971-74
Payette River near Horseshoe Bend	13247500	2,230	Temp.	1971-74
Payette River near Emmett	13249500	2,680	Temp.	1959
Payette River near Payette	13251000	3,240	Temp.	1997
West Branch Weiser River near Tamarack	13251300	3.9	Temp.	1959-61, 1962-73, 1974-76
Middle Fork Weiser River near Mesa	13257000	86	Temp.	1985-87
Weiser River near Weiser	13266000	1,460	Temp.	1959-61, 1997-98
Snake River at Weiser	13269000	69,200	Temp.	1969-70, 1972, 1974-75, 1976-81
Snake River below Pine Creek at Oxbow, OR	13290200	73,150	Temp.	1958-73
Salmon River above Redfish Lake Creek near Stanley	13293800	--	Temp.	1978-84
Redfish Lake Creek at outlet of Redfish Lake near Stanley	13293890	--	Temp.	1979-80

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water year)
Columbia River Basin--Continued				
Snake River Basin--Continued				
Redfish Lake Creek below Lake near Stanley	13293900	--	Temp.	1979-80
Valley Creek at Stanley	13295000	147	Temp.	1959
Yankee Fork Salmon River near Clayton	13296000	195	Temp.	1978-80
Little Boulder Creek near Clayton	13297450	18	Temp.	1970-76, 1977-78
East Fork Salmon River above Big Boulder Creek near Clayton	13297453	--	Temp.	1981-84
Pahsimeroi River at Ellis	13302005	--	Temp.	1998
Salmon River at Salmon	13302500	3,760	Temp.	1998
Lemhi River at Leadore	13303300	--	Temp.	1978
Big Springs Creek near Leadore	13304185	--	Temp.	1978
Big Springs Creek near Leadore	13304200	--	Temp.	1959-61
Lemhi River near Lemhi	13305000	895	Temp.	1966, 1998
Panther Creek near Colbalt	13306300	--	Temp.	1960
Johnson Creek at Yellowpine	13313000	213	Temp.	1959, 1998
Little Salmon River at Riggins	13316500	576	Temp.	1998
North Fork Shookumchuck Creek near White Bird	13316800	15	Temp.	1960
Salmon River at White Bird	13317000	13,550	Temp.	1967-80
			S.C.	1978-80
Selway River near Shearer Guard Station	13335500	--	Temp.	1960-61
Bear Creek near Shearer Guard Station	13335600	--	Temp.	1960-61
Moose Creek near Moose Ranger Station	13335700	--	Temp.	1960
Meadow Creek near Lowell	13336100	241	Temp.	1964-68, 1969-70
Gedney Creek near Selway Falls	13336300	48.2	Temp., S.C.	1981
Selway River near Lowell	13336500	1,910	Temp.	1958-59
White Sand Creek near Powell Ranger Station	13336620	--	Temp.	1976-77
Crooked Fork near Powell Ranger Station	13336630	--	Temp.	1976-77
Walton Creek near Powell Ranger Station	13336635	11.6	Temp.	1986, 1987, 1988
Lochsa River near Powell Ranger Station	13336700	--	Temp.	1959
Warm Springs Creek at Jerry Johnson Hot Springs near Powell Ranger Station	13336750	--	Temp.	1957, 1959
Warms Springs Creek near Powell Ranger Station	13336800	75	Temp.	1957, 1959
Fish Creek near Lowell	13336900	89	Temp.	1959-60
Lochsa River near Lowell	13337000	1,180	Temp.	1956, 1957, 1959
Clear Creek near Kooskia	13337100	100	Temp.	1962
South Fork Red River at Red River Ranger Station	13337177	--	Temp.	1984, 1985, 1986
Red River below South Fork near Red River Ranger Station	13337180	--	Temp.	1394, 1985, 1986
Crooked River near Orogrande	13337510	--	Temp.	1984, 1985, 1986 1987, 1988
Crooked River near mouth near Elk City	13337520	--	Temp.	1984, 1985, 1986 1987, 1988
South Fork Clearwater River at Stites	13338500	1,150	Temp.	1998
Clearwater River at Kamiah	13339000	4,850	Temp.	1956-57, 1959
Little North Fork Clearwater River near Elk River	13340760	262	Temp.	1971-73, 1974
North Fork Clearwater River at Ahsahka	13341000	2,440	Temp.	1959-70
			Sed.	1966-68
East Fork Potlatch River below Mallory Creek near Bovill	13341200	18	Temp.	1959-60
Bloom Creek near Bovill	13341300	3	Temp.	1959-90
East Fork Potlatch River near Bovill	13341400	42	Temp.	1960
Twenty-one Ranch Spring near Waha	13342200	--	Temp.	1959-60, 1985-86
Lapwai Creek near Lapwai	13342450	235	Temp.	1998
Palouse River near Potlatch	13345000	317	Temp.	1998

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Idaho each year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding to the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Idaho."

This report series includes records of stage, discharge, and water quality of streams; stage, contents, and water quality of lake and reservoirs; and water-level and quality of ground-water wells. The two volumes of this report contain discharge records for 190 stream-gaging stations and 19 irrigation diversions; stage only records for 6 stream-gaging stations; stage only for 6 lakes and reservoirs; contents only for 16 lakes and reservoirs; water quality for 116 stream-gaging stations and partial record sites, 3 lake sites, and 390 wells; and water levels for 537 observation wells. Additional water data were collected at various sites, not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Idaho, adjacent States, and Canada.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey Water-Supply Papers entitled, "Surface Water Supply of the United States". Through September 30, 1960, these Water-Supply Papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of Water-Supply Papers entitled, "Quality of Surface Waters of the United States". Records of ground-water levels were published from 1935 to 1974 in a series of Water-Supply Papers entitled, "Ground-Water Levels in the United States". Water-Supply Papers may be consulted in the libraries of the principal cities in the United States or may be purchased from tthe U.S. Geological Survey, Information Services, Open-File Reports Section, Box 25286, Federal Center, Denver, CO 80225 (1-888-275-8747).

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on the State boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water were published as an official Survey report on a State boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report ID-00-2." Water-data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161, telephone (703)-605-6000.

Additional information, including current prices, for ordering specific reports may be obtained from the District Office at U.S. Geological Survey, WRD, 230 Collins Road, Boise, Idaho 83702-4520, or by telephone (208) 387-1300.

Hydrologic data on the World Wide Web may be accessed at: http://idaho.usgs.gov/

COOPERATION

The U.S. Geological Survey and organizations of the State of Idaho have had cooperative agreements for the systematic collection of streamflow records since 1909, for ground-water levels since 1946, and for water-quality records since 1965. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Idaho Department of Water Resources, Karl Dreher, Director
Idaho Department of Fish and Game, Rodney Sando, Director
Idaho Department of Health and Welfare, Carl Kurtz, Director
Idaho Department of Environmental Quality, Steven Allred, Administrator
Bear River Commission, Kenneth T. Wright, Chairman
Nez Perce Tribe, Lapwai, Sam N. Penney, Chairman

Assistance in the form of funds or services was given by the U.S. Bureau of Reclamation, Department of the Interior, in collection of records for 13 gaging stations and 77 observation wells; U.S. Army Corps of Engineers, in collecting records for 20 gaging stations and 3 water-quality stations; U.S. Department of Energy, in collecting records for 6 gaging stations; U.S. Environmental Protection Agency, in collecting records for 11 gaging stations and 5 water-quality stations ; U.S. Department of Agriculture, in collecting records at 2 gaging stations; U.S. Department of State, in collecting records for 4 gaging stations; Bonneville Power Administration, in collecting records for 5 gaging stations; Bureau of Indian Affairs, in collecting records for 5 gaging stations; Shoshone County, Idaho, in collecting records for 1 gaging station.

The following organizations aided in collecting records:

Water Districts 01, 31, 32, 33, 34, 37, 37N, 63, and 65K; Fremont-Madison Irrigation Co.: Idaho Power Co.; Marysville Hydro-Partners; Oakley Canal Co.; City of Palouse, Washington; Salmon River Canal Co.; Washington Water Power Co.; and Utah Power & Light Co.

Organizations that supplied data are acknowledged in station manuscript headings.

SUMMARY OF HYDROLOGIC CONDITIONS

Idaho hydrology is as diverse and complex as the topography that controls it. The southeastern corner of the State lies within the Great Basin and contributes inflow to the Great Salt Lake in Utah. Precipitation-runoff conditions in this area are greatly influenced by the Wasatch Range, which extends northward into Idaho from Utah and intercepts, or diverts to the north, the normal west-to-east storm track. Mountain ranges and intervening valleys divide the Great Basin on the southeast from the Snake River basin on the north. The Snake River flows into Idaho from Wyoming, where the Continental Divide forms the northern and eastern boundaries of the basin. In Idaho, the Snake River flows westward near the southern edge of the Snake River Plain, which extends the full east-west width of the State. Streams flowing southward from the mountains onto the eastern part of the plain infiltrate the surface; some completely disappear as they recharge the Snake River Plain aquifer. Water from the aquifer discharges into the Snake River from numerous large and small springs along a 30-mile reach above King Hill. North of the Snake River Plain lie a succession of north-south trending mountain ranges that extend into Canada. In this mountainous region, streams are deeply incised, valleys are narrow, and topographic relief commonly exceeds 5,000 feet.

Precipitation, influenced by topography, varies widely throughout the State. It ranges from about 10 inches per year on most of the Snake River Plain to 20 or 30 inches per year in the southeastern highlands. Precipitation commonly is 40 or 50 inches per year over most of the central mountains but may exceed 60 inches per year in some areas. In the central and southern parts of the State, precipitation is normally seasonal with a winter maximum occurring mostly as snow.

Most streams throughout the State reach their annual peaks during spring snowmelt, but warm, wet Pacific storm fronts bringing heavy rains and thawing conditions to Idaho may cause extreme floods during winter months as well. On small drainages, violent thunderstorms frequently cause annual peak flows during summer months.

Streamflow and Reservoirs

A dry summer and fall led into the 2000 water year, with snowpack reaching only 50-60% of average across central and southern Idaho by the end of December. The Panhandle and Clearwater basins had a normal snowpack for this period. Snowfall amounts for January to March were in the 80-100% range across the state, and warm April temperatures started an early snowmelt with annual peaks occurring in the northern basins. Above normal temperatures continued into May, causing the runoff to occur 2-3 weeks early in the southern portion of Idaho. As a result of warm, moderate air temperatures and dry soil moisture conditions from last summer and fall, much of the snowmelt water infiltrated into the ground instead of providing additional streamflow. Streams in the central and southern sections of the state peaked near the last week of May. Streamflows remained below normal throughout the summer and the extremely dry conditions intensified damage caused by large forest fires in the Salmon, Payette, and Lochsa river basins.

The range of annual precipitation and streamflow during the 2000 water year for the major drainage basins in Idaho, as compared with the 30-year average is listed in the table below. Precipitation figures are provided by the Natural Resources Conservation Service.

Oct. 1, 1999 - Sept. 30, 2000 as Percent of 30-year Average		
Drainage Basin	Precipitation	Streamflow
Panhandle	102%	104%
Clearwater River	96%	91%
Salmon River	86%	79%
Boise, Weiser, Payette Rivers	89%	85%
Southside Snake	78%	53%

Figures 5-9 (pages 39-44) show locations of streamflow gaging stations throughout the state.

Irrigation supplies in the Boise and Payette River reservoirs began and ended the water year with good carryover. Storage at the end of September 2000 was down significantly from the high September 1999 figure of 124%, but was still near the 10-year average at 95%. Storage at the end of September 2000 for the three major power and flood-control reservoirs in northern Idaho was at 96% of the 10-year average.

Figure 1 (page 4) shows flow volume and annual distribution of discharge compared with median discharge based on a 30-year period at two representative gaging stations in north-central and northern Idaho.

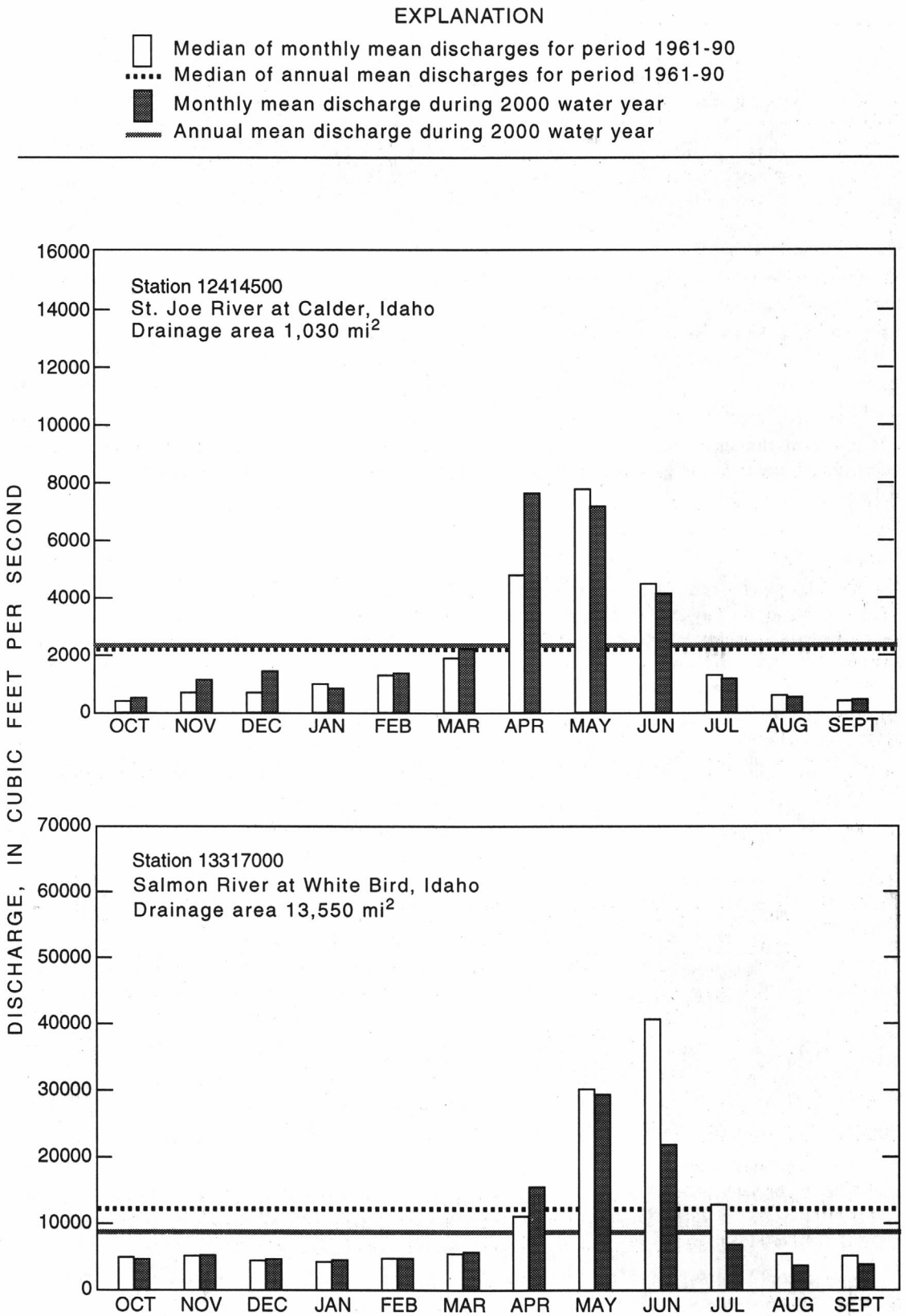


Figure 1. Discharge during 2000 water year compared with median discharge for period 1961-90 for two representative gaging stations.

Table 1 shows total reservoir storage on September 30, 2000, compared with data for September 30, 1999 and with the 1990-99 10-year average for a representative group of reservoirs.

Table 1. Comparative reservoir storage data
(Values in acre-feet)

Reservoir group	September 1999	September 2000	1990-99 average
Six major irrigation reservoirs in Boise and Payette River basins	1,108,000	865,500	907,500
Three major power and flood-control reservoirs in northern Idaho	3,727,000	3,750,000	3,887,000

Ground Water

Ground water is used principally for irrigated agriculture. The expansion of agriculture in Idaho has resulted in heavy pumpage in some ground-water basins. Increased withdrawals for irrigation have prompted the Idaho Department of Water Resources to designate eight Critical Ground-Water Areas and six Ground-Water Management Areas.

"Critical ground-water basin is defined as any ground-water basin or designated part thereof, not having sufficient ground water to provide a reasonably safe supply for irrigation of cultivated lands, or other uses in the basin at the then current rates of withdrawal, or rates of withdrawal projected by consideration of valid and outstanding applications and permits, as may be determined, from time to time, by the director of the Department of Water Resources." (Public Law 42-233a).

"Ground-water management area is defined as any ground-water basin or designated part thereof which the director of the Department of Water Resources has determined may be approaching the conditions of a critical ground-water area." (Public Law 42-233b).

The continued use of ground water has resulted in water-level declines in some aquifers. These declines in local and regional ground-water systems emphasize the need for, and implementation of, a comprehensive, statewide water-level monitoring program. Observation wells selected to monitor long-term changes in water levels in different areas of Idaho are shown in figure 2.

In 2000, water levels were measured at various intervals in 340 wells and continuously (sites equipped with automatic recorders) in 5 wells in the Federal-State Cooperative observation-well network. In addition, water-level measurements were made monthly and bimonthly in 77 wells by the U.S. Bureau of Reclamation, and 16 wells for Water District 31. Water levels were also measured in 99 wells for Special Projects and data published in this report. Figures 19-23 (pages 303-307) show locations of observation wells in various parts of the state.

The Rathdrum Prairie aquifer in northern Idaho is the major source of potable water for Coeur d'Alene and Post Falls, Idaho, and Spokane, Washington. The U.S. Environmental Protection Agency has given the aquifer a "Sole Source" designation. As such, the aquifer is protected from degradation by pollution. Comparing March 1999 and March 2000 water levels declined 2.1 feet in the northern part of Rathdrum Prairie, and declined 1.6 feet in the west-central area near Twin Lakes, and declined 0.4 foot in the southern part near Post Falls.

Water levels in the Moscow basin declined 2.3 feet at Moscow and declined 1.3 feet in the Lewiston Orchards area.

In the Weiser River Valley water levels declined 0.8 foot north of Council, and ranged from a rise of 1.5 feet to a decline of 1.2 feet south of Council, and rose on average 0.3 foot in the Weiser area.

Water levels in the Payette River Valley of west-central Idaho ranged from a rise of 0.3 foot to a decline of 1.7 feet, and in the shallow aquifer remained about the same near Emmett and declined 0.4 foot east of New Plymouth. Water levels in the artesian system west of Emmett ranged from a decline of 0.1 foot to a rise of 0.9 feet.

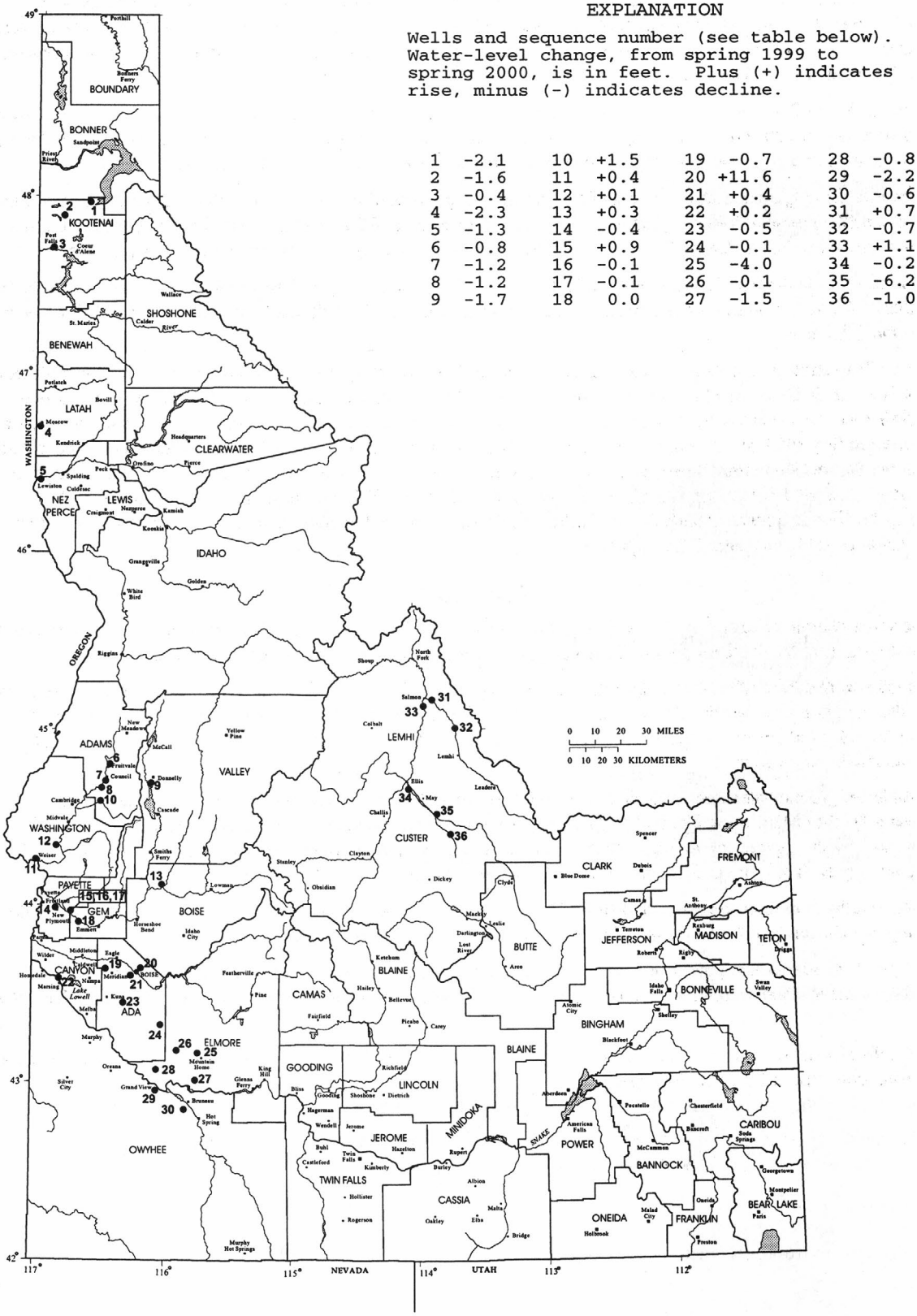


Figure 2. Water-level changes in selected observation wells.

In the Salmon and Lemhi River valleys of east-central Idaho, water levels declined 0.7 foot near Tendoy, rose 1.1 feet in one well south of Salmon, and rose 0.7 foot in another well southeast of Salmon. Water levels in the Pahsimeroi River valley, a major tributary to the Salmon River, showed a decline of 1.0 foot in the upper part of the valley, and a decline of 6.2 feet near Patterson, and declined 0.2 foot near the mouth of the valley.

In the Boise Valley of southwestern Idaho, water levels in the shallow aquifer, which is recharged by infiltration of water from unlined canals and ditches, ranged from a rise of 0.4 foot to a decline of 0.7 foot. In areas of Boise Valley where ground water is extensively withdrawn from the deep aquifer, water levels declined on average 0.3 foot.

Increased development of the geothermal aquifer underlying the Boise Front and the city of Boise has resulted in a Ground-water Management Area designation by the Idaho Department of Water Resources. In one well near the Boise Front, the water level rose 11.6 feet. This well has not recovered sufficiently to flow from the casing since 1986.

In areas of ground-water development on the Mountain Home plateau, water levels ranged from a decline of 0.1 foot to a decline of 4.0 feet. South of the Snake River near Bruneau, water levels declined 0.6 foot. Near Grand View water levels declined 2.2 feet.

Six wells in strategic locations across Idaho are measured on a monthly basis to determine water-level conditions. Three wells in the Snake River Plain aquifer have been below their respective mean average monthly water level since March 1988. One well monitoring the regional aquifer in the Snake River Plain near Gooding recovered to above average during June and July 1995, and January 1996 to June 2000, but is currently below average. One well monitoring the shallow aquifer in the Boise River valley is below average. This well did reach its average in April and May 1990, August and October 1993, August 1995 to April 1996, September 1996 to October 1997, and September 1999. Another well monitoring the alluvial aquifer underlying the Rathdrum Prairie, recovered to above average water levels during March 1991 to February 1992, and June 1995 to present.

Water Quality

The water chemistry varies considerably in Idaho owing to the diverse geology. Dissolved solids concentrations are higher in waters from the southern region of the state and lower in waters from the central and northern regions.

Samples were collected monthly, April through September, at 15 surface water sites as part of the state-wide surface-water quality monitoring network. The analyzed constituents were nutrients, bacteria and suspended sediment with common ions collected during the September sampling event. Continuous water temperature data were collected June through September at all sites.

Samples of groundwater were collected from 187 wells June through September as part of the "State-Wide Groundwater Quality Monitoring Network". The analyzed constituents were nutrients, common ions, bacteria, trace elements and volatile organic compounds. Alpha Analytical, Inc., Sparks, Nevada performed the analyses for volatile organic compounds. This data is available from the Idaho Department of Water Resources.

Water quality sampling continued at 4 Boise River sites and 12 drains to the Boise river as part of the "Lower Boise River" project. The analyzed constituents were nutrients, bacteria, and suspended sediment.

Samples for cadmium, copper, lead, zinc, calcium, magnesium and hardness were collected at 34 sites within the Spokane River Basin. The samples were collected for the "Remedial Investigation/Feasibility Study of the Spokane River Basin".

The collection of water chemistry and profile data at 3 sites on Payette Lake continued. Additional water chemistry samples were collected at 2 Payette River sites.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report are defined below. See also the table for converting English units to International System of units (SI) on the inside back cover.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves. -- *see also Plankton*

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid

Annual Runoff indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters..

Cubic foot per second per square mile [CFSM, $(ft^3/s)/mi^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Inches (IN) indicates the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Aroclor is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type and the last two digits represent the weight percent of the hydrogen substituted chlorine.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria which produce pink to red colonies with black or reddish-brown precipitate after incubation at 41°C on mE agar and subsequent transfer to EIA medium. Enterococci include Streptococcus feacalis, Streptococcus feacium, Streptococcus avium, and their variants.

Escherichia coli (E. coli) are bacteria present in the intestine and feces of warm-blooded animals. E. coli are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium. Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5°C plus or minus 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as Gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C plus or minus 1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

DEFINITION OF TERMS

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C plus or minus 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Base flow is flow in a channel sustained by ground-water discharge in the absence of direct runoff.

Bedload is the sediment which moves along in essentially continuous contact with the streambed by rolling, sliding, and making brief excursions into the flow a few diameters above the bed.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Benthic invertebrates are invertebrate animals inhabiting the bottoms of lakes, streams, and other water bodies. They are useful as indicators of water quality.

Biological data

EPT Index - total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that are generally considered pollution sensitive, this index usually decreases with pollution.

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0-100% with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

Hilsenhoff's Biotic Index (HBI) - an indicator of organic pollution which uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = \sum \frac{(n)(a)}{N}$$

where n is the number of individuals of each taxon, a is the tolerance value of each taxon, and N is the total number of organisms in the sample.

Percent Fines - visual estimate of riffle streambed substrate smaller than gravel (<2mm).

Percent Shading - Using a clinometer estimates of left and right bank shading are determined and values are added together and divided by 180 to determine percent shading relative to a horizontal surface.

Diversity Index (H) ***(Shannon Index)*** is a numerical expression of evenness of distribution of aquatic organisms. The formula for this diversity index is:

$$\delta = \sum_{i=1}^{s} \frac{n_1}{n} \log_2 \frac{n_i}{n}$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Substrate Embeddedness Class - visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2mm, sand or finer). Below are the class categories expressed as percent covered by fine sediment:

0	< no gravel or larger substrate		
1	> 75%		
2	51-75%	4	5-25%
3	26-50%	5	< 5%

Taxa Richness - total number of distinct species or groups, usually decreases with pollution.Percent Shading.

Temperature preferences:

Cold - preferred water temperature for the species is less than 20°C or spawning temperature preference less than 16°C and native distribution is considered to be predominantly north of 45N latitude.

Warm - preferred water temperatures for the species is greater than 20°C or spawning temperature preference greater than 16°C and native distribution is considered to be predominantly south of 45N latitude.

Cool - intermediate between cold and warm water temperature preferences.

Trophic group:

Filter feeder - diet composed of suspended plant and/or animal material.

Herbivore - diet composed predominantly of plant material.

Invertivore - diet composed predominantly of invertebrates.

Omnivore - diet composed of at least 25% plant and 25% animal material.

Parasite - parasitic on other fish.

DEFINITION OF TERMS

Piscivore - diet composed predominantly of fish.

Biological data References:

Chandler, G.L., Maret, T.R. and Zaroban, D.W., 1993, Protocols for assessment of biotic integrity (fish) in Idaho streams, Boise, Idaho Department of Health and Welfare, Division of Environmental Quality, Water Quality Monitoring Protocols, Report No. 6, 40 p.

Gurtz, M.E., 1994, Design of biological components of the National Water-Quality Assessment (NAWQA) Program, in Loeb, S.L. and Spacie, Anne, eds., Biological monitoring of aquatic systems, Boca Raton, Fla., Lewis Publishers, p. 323-354.

Hayslip, G.A., ed., 1993, Region 10 instream biological monitoring handbook for wadable streams in the Pacific Northwest, Seattle, Washington, U.S. Environmental Protection Agency, Environmental Services Division, 75 p.

Fitzpatrick, F.A., Waite, I.R., D'Arconte, P.J., Meador, M.R., Maupin, M. A., and Gurtz, M.E., 1998, Revised methods for characterizing stream habitat in the National Water-Quality Assessment Program: U.S. Geological Survey, Water Resources Investigations Report 98-4052, 67 p.

Idaho Division of Environmental Quality, 1996, 1996 water body assessment guidance: A stream standards process, Boise, Idaho, 109 p.

Meador, R.R., Cuffney, T.F. and Gurtz, M.E., 1993a, Methods for sampling fish communities as part of the National Water-Quality Assessment Program, U.S. Geological Survey Open-File Report 93-104, 40 p.

Plafkin, J.L., Barbour, M.T., Porter, K.D., Gross, S.K. and Hughes, R.M., 1989, Rapid bioassessment protocols for use in streams and rivers--benthic macroinvertebrates and fish, Washington, D.C., U.S. Environmental Protection Agency, Office of Water Report EPA/444/4-89-001 [variously paged].

Robins, C.R., Bailey, R.M., Bond, C.E., Brooker, J.R., Lachner, E.A., Lea, R.N. and Scott, W.B., 1991, Common and scientific names of fishes from the United States and Canada, Bethesda, MD., American Fisheries Society Special Publication 20, 183 p.

Scott, W.B. and Crossman, E.J., 1973, Freshwater fishes of Canada, Ottawa, Fisheries Research Board of Canada, 966 p.

Sigler, W.F. and Sigler, J.W., 1987, Fishes of the Great Basin, Reno, University of Nevada Press, 425 p.

Simpson, J.C. and Wallace, R.L., 1982, Fish of Idaho, Moscow, The University Press of Idaho, 238 p.

Zaroban, D.W., Mulvey, M.P., Maret, T.R., Hughes, R.M., and Merritt, G.D., 1999, Classification of species attributes for Pacific Northwest freshwater fishes: Northwest Science, v. 73, no. 2, p. 81-93.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square mile (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See "Bed material".

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material".

Cells/volume refers to the number of plankton cells or natural units counted using a microscope and grid or counting cell. Results are generally reported as cells or units per milliliter.

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently

DEFINITION OF TERMS

used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (mm3) is determined by obtaining critical cell measurements on cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

sphere 4/3 pr3 cone 1/3 pr3h cylinder pr3h.

From cell volume, total algal biomass expressed as biovolume (mm3/mL) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes over all species.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Colloid is any substance with particles in such a fine state of subdivision dispersed in a medium (for example, water) that they do not settle out; but not in so fine a state of subdivision that they can be said to be truly dissolved.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases the water level can rise above the ground surface, yielding a flowing well.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Continuous-record station is a site that meets either of the following conditions:

1. Stage or streamflow are recorded at some interval on a continuous basis. The recording interval is usually 15 minutes, but may be less or more frequent.
2. Water-quality, sediment, or other hydrologic measurements are recorded at least daily.

Control designates a feature in the channel downstream from a gaging station that physically influences the water-surface elevation and thereby determines the stage-discharge relation at the station. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream.

Cubic foot per second (CFS, ft3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second, 448.8 gallons per minute, or 0.02832 cubic meters per second.

Cubic foot per second-day (CFS-DAY, Cfs-day, [(ft3/s)/d]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, 646,317 gallons, or 2,447 cubic meters.

Daily record is a summary of streamflow, sediment, or water-quality values computed from data collected with sufficient frequency to obtain reliable estimates of daily mean values.

Daily record station is a site for which daily records of streamflow, sediment, or water-quality values are computed.

Datum, as used in this report, is an elevation above mean sea level to which all gage height readings are referenced.

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

Instantaneous discharge is the discharge at a particular instant of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Dissolved refers to that material in a representative water sample which passes through a 0.45-micrometer

DEFINITION OF TERMS

membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Diversity index: see listing under "Biological data".

Drainage area of a site on a stream is that area, measured in a horizontal plane, that has a common outlet at the site for its surface runoff. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface that is occupied by a drainage system with a common outlet for its surface runoff (see "Drainage area").

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue.

Extractable organic halides (EOX) are organic compounds which contain halogen atoms such a chlorine. These organic compounds are semi-volatile and extractable by ethyl acetate from air-dried stream bottom sediments. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the stream bottom sediments.

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is the elevation of the zero point of the reference gage from which gage height is determined as compared to sea level (see "Datum"). This elevation is established by a system of levels from known benchmarks, by approximation from topographic maps, or by geographical positioning system.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Ground-water level is the elevation of the water table or another potentiometric surface at a particular location.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

Hydrologic benchmark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a benchmark station may be used to separate effects of natural from human-induced changes in other basins that have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

Hydrologic unit s a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the U.S. Geological Survey. Each hydrologic unit is identified by an 8-digit number.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation

$$I = I_o e^{-\lambda L}$$

where Io is the source light intensity, I is the light intensity at length L (in meters) from the source, l is the light-attenuation coefficient, and e is the base of the natural logarithm. The light attenuation coefficient is defined as

$$\lambda = -\frac{1}{L}\log_e \frac{I}{I_o}$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

DEFINITION OF TERMS

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that are usually arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, µg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG, µg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter.

Microsiemens per centimeter (US/CM, µS/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of dry sediment per liter of water-sediment mixture.

Miscellaneous site, or miscellaneous station, is a site where streamflow, sediment, and/or water-quality data are collected once, or more often on a random or discontinuous basis.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.
See NOAA web site:
http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88

Natural substrate: see listing under "Substrate".

Nekton are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of Formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

Open or screened interval is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediments. May be reported as dissolved organic carbon (DOC), suspended organic carbon (SOC), or total organic carbon (TOC).

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

DEFINITION OF TERMS

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

> **Total organism count** is the total number of organisms collected and enumerated in any particular sample.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method utilizes the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, Sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)			Method of analysis
Clay	0.00024	-	0.004	Sedimentation
Silt	0.004	-	0.062	Sedimentation
Sand	0.062	-	2.0	Sedimentation/sieve
Gravel	2.0	-	64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition or **percent of total** is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, or volume.

Periodic station is a site where stage, discharge, sediment, chemical, or other hydrologic measurements are made one or more times during a year, but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

> **Method detection limits** (MDLs) is defined as the minimum concentration of a substance that can be identified, measured, and reported with a 99-percent confidence that the compound is greater than zero (Wershaw and others, 1987). MDLs were determined according to procedures outlined by the U.S. Environmental Agency (1992). The MDL is calculated using the following equation:
>
> MDL = S x t (n-1,1-a=0.99), where
> S = standard deviation of replicate analyses, in unit concentration, at the lowest concentration;
> n = number of replicate analyses; and
> t (n-1,1-a=0.99) = Student's t-value for the 99-percent confidence level with n-1 degrees of freedom (U.S. Environmental Agency, 1992)
>
> MDLs are adjusted periodically and will change as the number of replicate analyses increases.
>
> *Method detection limits References*:
>
> Wershaw, R.L., Fishman, M.J., Grabbe, R.R., and Lowe, L.E., eds., 1987, Methods for the determination of organic substances in water and fluvial sediments, U.S. Geological Survey Techniques of Water-Resources Investigations, book 5, chapter A3, 80p.
>
> U.S. Environmental Protection Agency, 1992, Guidelines establishing test procedures for the analysis of pollutants (App. B, Part 136, Definition and procedures for the determination of the method detection limit), U.S. Code of Federal Regulations, Title 40, revised as of July 1, 1992, p. 565-567.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed "acidic," and solutions with a pH greater than 7 are termed "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

Picocurie (PC, pCi) is one trillionth (1 x 10-12) of the amount of radioactive nuclide represented by a curie (ci).

DEFINITION OF TERMS

A curie is the quantity of any radioactive nuclide that yields 3.7 x 10-10 radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL of sample).

Phytoplankton is the plant part of the plankton. They are usually microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and are commonly known as algae.

Blue-green algae (Cyanophyta) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Euglenoids (Euglenophyta) are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark.

Fire algae (Pyrrhophyta) are a group of algae that are free-swimming unicells characterized by a red pigment spot.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCB's) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCN's) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCB's) and have been identified in commercial PCB preparations.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m2/time)] for periphyton and macrophytes or per volume [mg C/(m3/time)] for phytoplankton. Carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m2/time)] for periphyton and macrophytes or per volume [mg O/(m3/time)] for phytoplankton. Oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radioisotopes are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Recoverable from bottom material: See listing under "Bottom material".

DEFINITION OF TERMS

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or non-exceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day 10-year low flow (7Q10) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the non-exceedances of the 7Q10 occur less than 10 years after the previous non-exceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous non-exceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the 7Q10.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

River mile is the distance of a point on a river measured in miles from the river's mouth along the low-water channel.

River mileage is the linear distance along the meandering path of a stream channel determined in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council.

Runoff in inches (IN., in.) is the depth, in inches, to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sea level refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929.
See: http://www.coops.nos.noaa.gov/glossary/gloss_n.html#NGVD

Sediment is solid material that is transported by, suspended in, or deposited from water. It originates mostly from disintegrated rocks; it also includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along or very close to the bed. In this report, bed load is considered to consist of particles in transit from the bed to an elevation equal to the top of the bed-load sampler nozzle (usually within 0.25 ft of the streambed).

Bed-load discharge (tons per day) is the quantity of sediment moving as bed load, reported as dry weight, that passes a cross section in a given time.

Suspended sediment is the sediment that is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The entire sample is used for the analysis.

Mean concentration of suspended sediment is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge (tons/day) is the quantity of sediment moving in suspension, reported as dry weight, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft3/s) x 0.0027.

Suspended-sediment load is a term that refers to material in suspension. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, reported as dry weight, that passes a cross section in a given time.

Total sediment load or total load is a term that refers to the total sediment (bed load plus suspended-sediment load) that is in transport. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with total sediment discharge.

DEFINITION OF TERMS

Seven-day 10-year low flow (7Q10, $7Q_{10}$) is the minimum flow averaged over 7 consecutive days that is expected to occur on average, once in any 10-year period. The 7Q10 has a 10-percent chance of occurring in any given year.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MILL/MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific waters, to evaluate mixing of different waters, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage: See "Gage height".

Stage-discharge relation is the relation between the water-surface elevation, termed stage (gage height), and the volume of water flowing in a channel per unit time.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Surface area of a lake or impoundment is that area encompassed by the boundary of the lake or impoundment as shown on USGS topographic maps, or on other available maps or photographs. The computed surface areas reflect the water levels of the lakes or impoundments at the times when the information for the maps or photographs was obtained.

Surficial bed material is the top 0.1 to 0.2 ft of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative suspended-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative suspended-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

DEFINITION OF TERMS

Synoptic Studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	*Hexagenia*
Species	*Hexagenia limbata*

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term 'temperature recorder' is used in the table headings and refers to any instrument that records temperature, whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot is the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is the rate representing a mass of 1 ton of a constituent in streamflow passing a cross section in 1 day. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the total amount of a given constituent in a representative suspended-sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a suspended-sediment mixture and that the analytical method determined all of the constituent in the sample.)

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material: See listing under "Bottom material".

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total recoverable is the amount of a given constituent that is in solution after a representative suspended-sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Turbidity is a measurement of the collective optical properties of a water sample that cause light to be scattered and absorbed rather than transmitted in straight lines; the higher the intensity of scattered light, the higher the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU) or Formazin turbidity units (FTU) depending on the method and equipment used.

Volatile organic compounds (VOC's) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOC's are man made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water level is the water-surface elevation or stage of the free surface of a body of water above or below any datum (see "Gage height"), or the surface of water standing

in a well, usually indicative of the position of the water table or other potentiometric surface.

Water table is the surface of a ground-water body at which the water is at atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which is found the water table.

Water year in U.S. Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1999, is called the "1999 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

Well is an excavation (pit, hole, tunnel), generally cylindrical in form and often walled in, drilled, dug, driven, bored, or jetted into the ground to such a depth as to penetrate water-yielding geologic material and allow the water to flow or to be pumped to the surface.

Wet weight refers to the weight of animal tissue or other substance including its contained water.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that stations. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on a first rank, second rank, and other rank of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indentation in a list of stations in the front of this report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 13317000, which appears just to the left of the station name, includes the 2-digit part number "13" plus the 6-digit downstream order number "317000." The part number designates the major river basin; for example, part "13" is the Snake River basin. Because some areas are getting crowded on the downstream order map, a station number can go up to 15 digits. The extra numbers are added to the end of the basic 8-digit number as needed. Thus, a number like 1315377299 can be found in the reports of the Idaho District.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous project sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes and second of latitude, the next 7 digits denote the degrees, minutes and second of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid (Figure 3). If a more accurate latitude or longitude is defined, the site number remains the same.

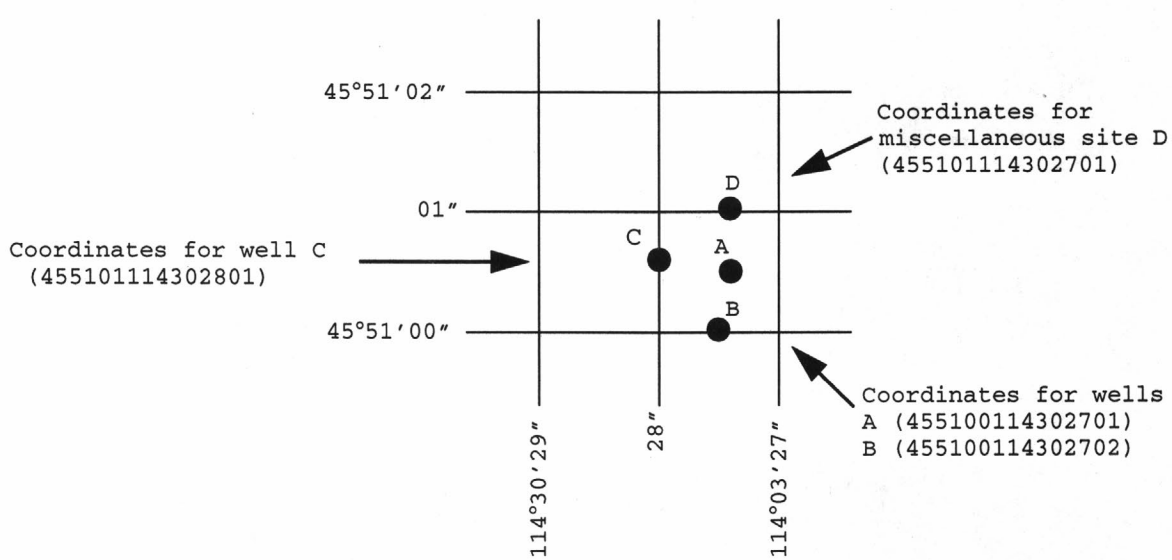


Figure 3. System for numbering wells and miscellaneous sites (latitude and longitude)

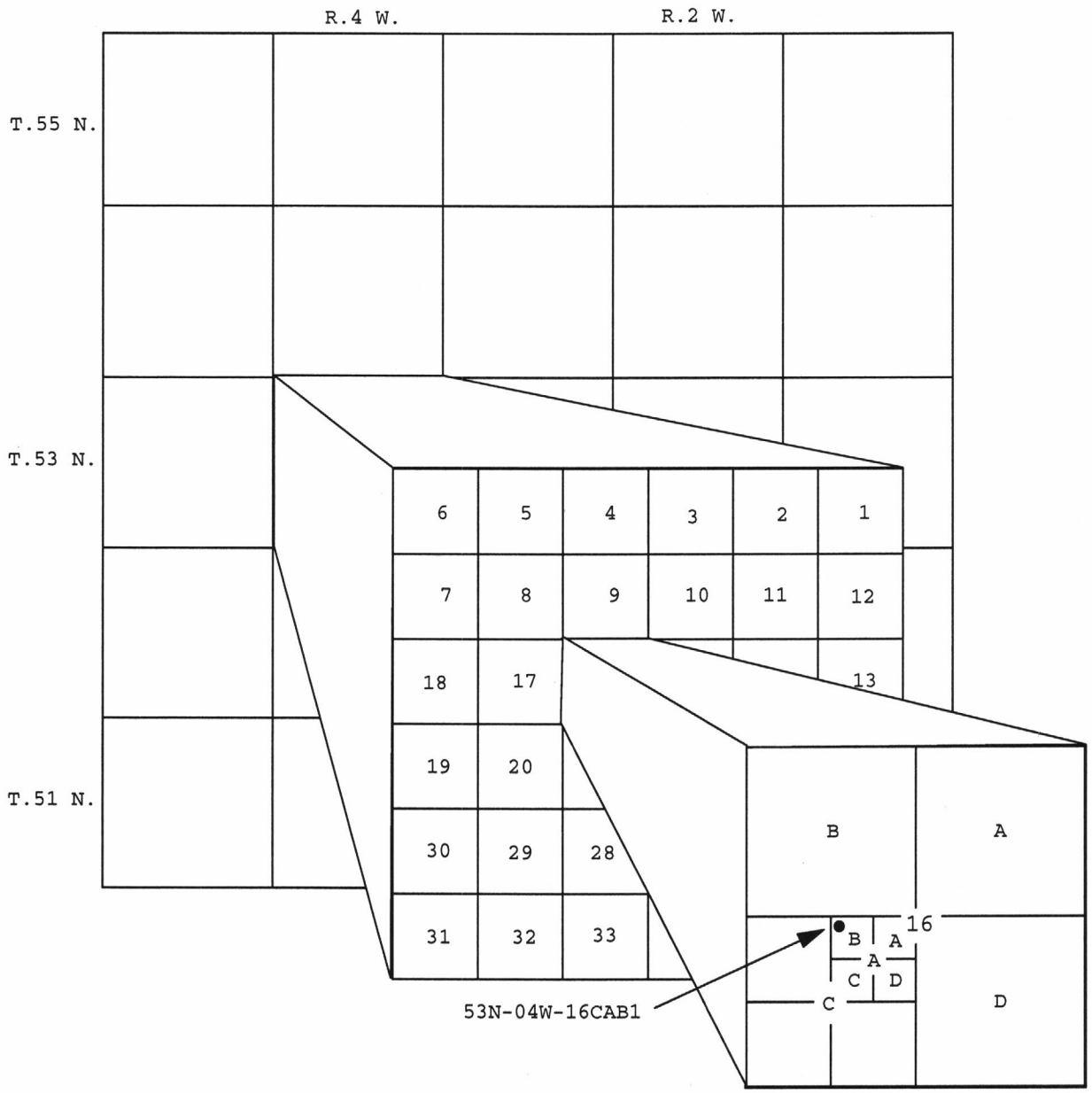


Figure 4. Diagram showing Idaho well-numbering system.

Idaho Well-Numbering System

The well-numbering system used by the Geological Survey in Idaho indicates the location of wells within the official rectangular subdivisions of the public lands, with reference to the Boise base line and Meridian. The first segment of a well number indicates the township, the second the range, and the third the section in which the well is situated. The letters following the section number indicate the well location within the section: The first letter denotes the 160-acre tract, the second the 40-acre tract, and the third the 10-acre tract in which the well occurs. The letters are assigned in a counterclockwise direction, beginning in the northeast quarter (Figure 4). The last numeral is a serial number assigned when the well is inventoried. Thus, well 53N-04W-16CAB1 is in the NW¼ NE¼ SW¼ sec. 16, T.53 N., R.04 E., and is the first well inventoried in that tract.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to accomplish the following objectives; (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO_2 emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO_2 and NOx scheduled to begin in 2000.

Data from the network, as well as information about individual sites, are available through the world wide web at:

http://nadp.sws.uiuc.edu/

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 53 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies.

Additional information about the NAWQA Program is available through the world wide web at:

http://wwwrvares.er.usgs.gov/nawqa/nawqa_home.html

EXPLANATION OF THE RECORDS

The surface-water, ground-water and water-quality records published in this report are for the 2000 water year that began October 1, 1999 and ended September 30, 2000. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water-level data. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations".

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records". Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report.

Data Collection and Computation

The data collected at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records and other information are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters, using methods adapted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in the U.S. Geological Survey Techniques of Water Resources Investigations (TWRI), Book 3, Chapter A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization of Standards (ISO).

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow-over-dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations, the stage-discharge relation is affected by changing stage; at these stations, the rate of change in stage is used as a factor in computing discharge.

At some gaging stations, the stage-discharge relation is affected by ice during the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves, or tables defining the relationship of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

For some gaging stations, there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute the daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise, daily contents may be estimated from operators' logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge".

Data Presentation

The records published for each continuous-record surface water discharge station (gaging station) consist of four parts, the manuscript or station description; the data table of daily mean values of discharges for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period by water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

Station manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, when given, are based on information developed by the Hydraulics and Hydrology Committee of the Pacific Northwest River Basins Commission.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that record from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Because of new information, published records occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that the instantaneous maximum discharge was revised; "(m)" that the instantaneous minimum was revised; and "(P)" that the peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to sea level, and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily discharges will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See next section, "Identifying Estimated Daily Discharge"). If a REMARKS paragraph is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the Idaho District Office (address given on the back of the title page of this report) to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Data table of daily mean values

The daily table for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the average flow in cubic feet per second for the month; and the lines headed "MAX" and "MIN" give the maximum and minimum daily mean discharges, respectively, for the month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEAR _____-_____, BY WATER YEAR (WY)", and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings for the statistics being reported. The table provides a statistical summary of yearly and daily flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "WATER YEARS _____-_____", will consist of all the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (See line headings on next page), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using computerized data for complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1 - March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the Idaho District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.--The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.--The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage gage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual state data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated", or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation, or if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of measurements of stage, measurements of discharge, and interpretation of the records.

The accuracy attributed to the records is indicated under "REMARKS". "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true; "good", within 10 percent; and "fair", within 15 percent. Records that do not meet the criteria mentioned, are rated "Poor".

Daily mean discharge in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft^3/s; to the nearest tenth between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s, and to 3 significant figures for more than 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables are on file in the Idaho District office. Also most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the District office.

Records of discharge not published by the Geological Survey were collected in the current water year by other State and Federal agencies. The National Water Data Exchange (NAWDEX), Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintains an index of these sites as well as an index of records of discharge collected by other agencies but not published by the U.S. Geological Survey. Information on records at specific sites can be obtained from that office upon request.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

The U.S. Geological Survey operates three surface-water quality monitoring networks--the National Stream Accounting Network (NASQAN), the National Hydrologic Benchmark Network, and the National Water-Quality Assessment Program (NAWQA). In Idaho, surface-water quality data are collected at NAWQA sites on Rock Creek at Twin Falls and the Snake River at King Hill. Surface-water quality data are also collected at various sites for other Federal, State, and local agencies. Ground-water quality data are not routinely collected on a statewide basis. Rather, data collected are associated with specific projects in cooperation with other Federal, State, and local agencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings", which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern is to ensure that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made on-site when the samples are taken. To assure procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations", (TWRI,) Book 1, Chapter D2: Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. These references are listed in the PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS section of this report. These methods are consistent with ASTM standards and generally follow ISO standards. Also, detailed information on collecting, treating, and shipping samples maybe obtained from the Geological Survey Idaho District office.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see SPECIAL NETWORKS AND PROGRAMS) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals, depends on flow conditions and other factors which must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the USGS District Office whose address is given on the back of the title page of this report.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for surface-water stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the Idaho office.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections. Samples are collected using standard sampling techniques discussed in TWRI Book 3, Chapter C2, "Field methods for measurement of fluvial sediment".

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily, or in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge. Methods used in the computation of sediment records are described in the TWRI Book 3, Chapters C1 and C3. These methods are consistent with ASTM Standards and generally follow ISO standards.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Laboratory Measurements

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the Geological Survey laboratory in Arvada, Colorado. Methods used in analyzing sediment samples and to compute sediment records are described in the TWRI Book 5, Chapter C1. Methods used by the U.S. Geological Survey laboratories are given in the TWRI Book 1, Chapter D2; Book 3 Chapter C2; and Book 5, Chapters A1, A3, A4, and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

****

MBAS determinations made from January 1, 1970 through August 29, 1993, at the National Water Quality Laboratory in Denver (Analyzing Agency Code 80020) are positively biased. These data can be corrected on the basis of the following equation, if concentrations of dissolved nitrate plus nitrite, as nitrogen, and dissolved chloride, determined concurrently with the MBAS data, are applied:

MBASCOR = M - 0.0088N - 0.00019C

where:

MBASCOR = corrected MBAS concentration, in mg/L;
M = reported MBAS concentration, in mg/L;
N = dissolved nitrate plus nitrite, as nitrogen, concentration, in mg/L; and
C = dissolved chloride concentration, in mg/L.

The detection limit of the new method is 0.02 mg/L, whereas the detection limit for the old method was 0.01 mg/L, a detection limit of 0.02 mg/L should be used with corrected MBAS data from January 1, 1970 through August 29, 1993.

****

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge"; same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge"; same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the record.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protections Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this report:

PRINTED OUTPUT	REMARK
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
V	Analyte was detected in both the environmental sample and the associated blanks.
&	Biological organism estimated as dominant.

Water Quality-Control Data

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this district are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collect in this district are:

Field blank - a blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank - a blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank - a blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank - a blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank - a blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank - a blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank - a blank solution that is treated with the sampler preservatives used for an environmental sample.

Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. There are many types of replicate samples possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are: Sequential samples - a type of replicate sample in which the samples are collected one after the other, typically over a short time. Split sample - a type of replicate sample in which a sample is split into subsamples contemporaneous in time and space.

Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

Dissolved Trace-Element Concentrations

NOTE.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu g/L$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the $\mu g/L$ levels should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

Change in National Trends Network Procedures

NOTE.--Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

Records of Ground-Water Levels

Ground-water level data from the statewide network of observation wells are published herein. This network is designed so that the fewest number of wells are used to obtain the most significant data in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See Figure 3 (page 20).

When a well is added to the State observation-well network, all its prior water-level measurements may be obtained from the Idaho District.

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Table of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, derived from the township-range location of the well.

Water-level records are obtained from direct measurements with a steel tape or from the graph or punched tape of a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. The reported water level has been computed below or above(+) land surface datum. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot or a larger unit.

Letters following water levels in tables indicate method of measurement followed by site status at time of measurement; Method: H - Calibrated pressure gage, M - manometer, S - Steel tape, V - calibrated electric tape. Status: D - dry, E - flowed recently, G - nearby flowing, N - measurement discontinued, O - obstruction, P - pumping, R - recently pumped, S - nearby pumping, V - foreign substance (oil on water), W - well destroyed.

Data Presentation

For each well, the well description includes, if available, the following information: Idaho well number, Latitude-longitude number, method of construction, use of well, type of well, (artesian or water table), formal aquifer name or lithology and geologic age, diameter of casing, depth of well, depth of perforations or screen, altitude of land-surface datum, remarks of unusual conditions affecting the water level, acknowledgment of outside persons or agencies contributing data, and a description of the measuring point (MP). The depth of the well at the time it was originally inventoried is given in the well description. If the well has been deepened or filled in, the new depth and date the change was discovered are noted following the notation of the land-surface datum.

A table of water levels follows the description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water level are listed. For wells equipped with recorders, only abbreviated tables are published; generally, only mid-day water-level readings are listed for every fifth day and at the end of the month (eom). The highest and lowest water levels of the water year and their dates of occurrence are also shown in the table. For a select number of wells, hydrographs are provided below the water-level table.

Aquifer Names

The names of aquifers and their geologic ages adopted for use in Idaho are from the stratigraphic names listed in the Idaho section of the U.S. Geological Survey Bulletins 1056-B, 1200, and 1395-A. Names will be modified where necessary as official changes in stratigraphic nomenclature occur. If a formal name has not been assigned to the aquifer, the lithology and its age are used to designate the water-bearing unit. Although some wells are supplied by more than one aquifer, only the major aquifer penetrated by the well is given in the well description.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that for most sampling sites they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes only slowly; therefore, for most general purposes one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey Techniques of Water-Resources Investigations" (TWRI) manuals listed under PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS in this report. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by County, and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at

http://water.usgs.gov

Some water-quality and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on magnetic tape or 3-1/2 inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District Offices (See address on the back of the title page.)

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Branch of Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Phone 1-888-275-8747. Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS–TWRI Book 1, Chapter D2. 1976. 24 pages.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

2-D1. *Application of surface geophysics to ground-water investigations*, by A.A. R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS–TWRI Book 2, Chapter D1. 1974. 116 pages.

2-D2. *Application of seismic-refraction techniques to hydrologic studies,* by F.P. Haeni: USGS–TWRI Book 2, Chapter D2. 1988. 86 pages

Section E. Subsurface Geophysical Methods

2-E1. *Application of borehole geophysics to water-resources investigations,* by W.S. Keys and L.M. MacCary: USGS–TWRI Book 2, Chapter E1. 1971. 126 pages.

2-E2. *Borehole geophysics applied to ground-water investigations,* by W.S. Keys: USGS–TWRI Book 2, Chapter E2. 1990. 150 pages.

Section F. Drilling and Sampling Methods

2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells,* by Eugene Shuter and W.E. Teasdale: USGS–TWRI Book 2, Chapter F1. 1989. 97 pages.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

3-A1. *General field and office procedures for indirect discharge measurements*, by M.A. Benson and Tate Dalrymple: USGS–TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M.A. Benson: USGS–TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS–TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H.F. Matthai: USGS-TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS–TWRI Book 3. Chapter A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Davidian: USGS–TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. *Stage measurement at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. *Measurement of time of travel in streams by dye tracing*, by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS–TWRI Book 3, Chapter A9. 1989. 27 pages.

3-Al0. *Discharge ratings at gaging stations*, by E.J. Kennedy: USGS–TWRI Book 3, Chapter A10. 1984. 59 pages.

3-A11. *Measurement of discharge by the moving-boat method*, by G.F. Smoot and C.E. Novak: USGS–TWRI Book 3, Chapter A11. 1969. 22 pages.

3-A12. *Fluorometric procedures for dye tracing, Revised,* by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI Book 3, Chapter A12. 1986. 34 pages.

3-A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS–TWRI Book 3, Chapter A13. 1983. 53 pages.

3-A14. *Use of flumes in measuring discharge,* by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI Book 3, Chapter A14. 1983. 46 pages.

3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS–TWRI Book 3, Chapter A15. 1984. 48 pages.

3-A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI Book 3, Chapter A16. 1985. 52 pages.

3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS–TWRI Book 3, Chapter A17. 1985. 38 pages.

3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS–TWRI Book 3, Chapter A18. 1989. 52 pages.

3-A19. *Levels at streamflow gaging stations,* by E.J. Kennedy: USGS–TWRI Book 3, Chapter A19. 1990. 31 pages.

3-A20. *Simulation of soluable waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS–TWRI Book 3, Chapter A20. 1993. 38 pages.

3-A21 *Stream-gaging cableways*, by C. Russell Wagner: USGS–TWRI Book 3, Chapter A21. 1995. 56 pages.

Section B. Ground-Water Techniques

3-B1. *Aquifer-test design, observation, and data analysis,* by R.W. Stallman: USGS–TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction,* by G.D. Bennett: USGS–TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers,* by J.E. Reed: USGS–TWRI Book 3, Chapter B3. 1980. 106 pages.

3-B4. *Regression modeling of ground-water flow,* by R.L. Cooley and R.L. Naff: USGS–TWRI Book 3, Chapter B4. 1990. 232 pages.

3-B4. *Supplement 1. Regression modeling of ground-water flow --Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems,* by R.L. Cooley: USGS–TWRI Book 3, Chapter B4. 1993. 8 pages.

3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction,* by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS–TWRI Book 3, Chapter B5. 1987. 15 pages.

3-B6. *The principle of superposition and its application in ground-water hydraulics,* by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI Book 3, Chapter B6. 1987. 28 pages.

3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow,* by E.J. Wexler: USGS–TWRI Book 3, Chapter B7. 1992. 190 pages.

Section C. Sedimentation and Erosion Techniques

3-C1. *Fluvial sediment concepts,* by H.P. Guy: USGS–TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment,* by Thomas K. Edwards and G. Douglas Glysson: USGS–TWRI Book 3, Chapter C2. 1988. 80 pages.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS–TWRI Book 3, Chapter C3. 1972. 66 pages.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

4-A1. *Some statistical tools in hydrology,* by H.C. Riggs: USGS–TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. *Frequency curves,* by H.C. Riggs: USGS–TWRI Book 4, Chapter A2. 1968. 15 pages.

Section B. Surface Water

4-B1. *Low-flow investigations,* by H.C. Riggs: USGS–TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply,* by H.C. Riggs and C.H. Hardison: USGS–TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics,* by H.C. Riggs: USGS–TWRI Book 4, Chapter B3. 1973. 15 pages.

Section D. Interrelated Phases of the Hydrologic Cycle

4-D1. *Computation of rate and volume of stream depletion by wells,* by C.T. Jenkins: USGS–TWRI Book 4, Chapter D1. 1970. 17 pages.

Book 5. Laboratory Analysis

Section A. Water Analysis

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments,* by M.J. Fishman and L.C. Friedman, editors: USGS–TWRI Book 5, Chapter A1. 1989. 545 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy,* by P.R. Barnett and E.C. Mallory, Jr.: USGS–TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. *Methods for the determination of organic substances in water and fluvial sediments,* edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS–TWRI Book 5, Chapter A3. 1987. 80 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples,* by L.J. Britton and P.E. Greeson, editors: USGS–TWRI Book 5, Chapter A4. 1989. 363 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments,* by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS–TWRI Book 5, Chapter A5. 1977. 95 pages.

5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments,* by L.C. Friedman and D.E. Erdmann: USGS–TWRI Book 5, Chapter A6. 1982. 181 pages.

Section C. Sediment Analysis

5-C1. *Laboratory theory and methods for sediment analysis,* by H.P. Guy: USGS–TWRI Book 5, Chapter C1. 1969. 58 pages.

Book 6. Modeling Techniques

Section A. Ground Water

6-A1. *A modular three-dimensional finite-difference ground-water flow model,* by M.G. McDonald and A.W. Harbaugh: USGS–TWRI Book 6, Chapter A1. 1988. 586 pages.

6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model,* by S.A. Leake and D.E. Prudic: USGS–TWRI Book 6, Chapter A2. 1991. 68 pages.

6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems,* Part 1: Model Description and User's Manual, by L.J. Torak: USGS–TWRI Book 6, Chapter A3. 1993. 136 pages.

6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems,* Part 2: Dervation of finite-element equations and comparisons with analytical solutions, by R.L. Cooley: USGS–TWRI Book 6, Chapter A4. 1992. 108 pages.

6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems,* Part 3: Design philosophy and programming details, by L.J. Torak: USGS–TWRI Book 6, Chapter A5, 1993. 243 pages.

6-A6. *A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction,* by Eric D. Swain and Eliezer J. Wexler. 1996. 125 pages.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments,* by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS–TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water,* by L.F. Konikow and J.D. Bredehoeft: USGS–TWRI Book 7, Chapter C2. 1978. 90 pages.

7-C3. *A model for simulation of flow in singular and interconnected channels,* by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS–TWRI Book 7, Chapter C3. 1981. 110 pages.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

8-A1. *Methods of measuring water levels in deep wells,* by M.S. Garber and F.C. Koopman: USGS–TWRI Book 8, Chapter A1. 1968. 23 pages.

8-A2. *Installation and service manual for U.S. Geological Survey manometers,* by J.D. Craig: USGS–TWRI Book 8, Chapter A2. 1983. 57 pages.

Section B. Instruments for Measurement of Discharge

8-B2. *Calibration and maintenance of vertical-axis type current meters,* by G.F. Smoot and C.E. Novak: USGS–TWRI Book 8, Chapter B2. 1968. 15 pages.

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.

9-A2. *National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.

9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A3. 1998. 75 p.

9-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.

9-A5. *National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149.

9-A6. *National Field Manual for the Collection of Water-Quality Data: Field Measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variously paginated.

9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators,* by D.N. Myers and F.D. Wilde: USGS–TWRI Book 9, Chapter A7. 1997. Variously paginated.

9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples,* by D.B. Radtke: USGS–TWRI Book 9, Chapter A8. 1998. 48 pages.

9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities,* by S.L. Lane and R.G. Fay: USGS–TWRI Book 9, Chapter A9. 1998. 60 pages.

The following figures 5-9 show locations of surface-water and water-quality stations in various parts of Idaho.

EXPLANATION

PART 13 — River basin boundary and number

▲ 336500 — Gaging station and number

▼ — Water-quality data collection site

♦ — Gaging station and water-quality data collection site

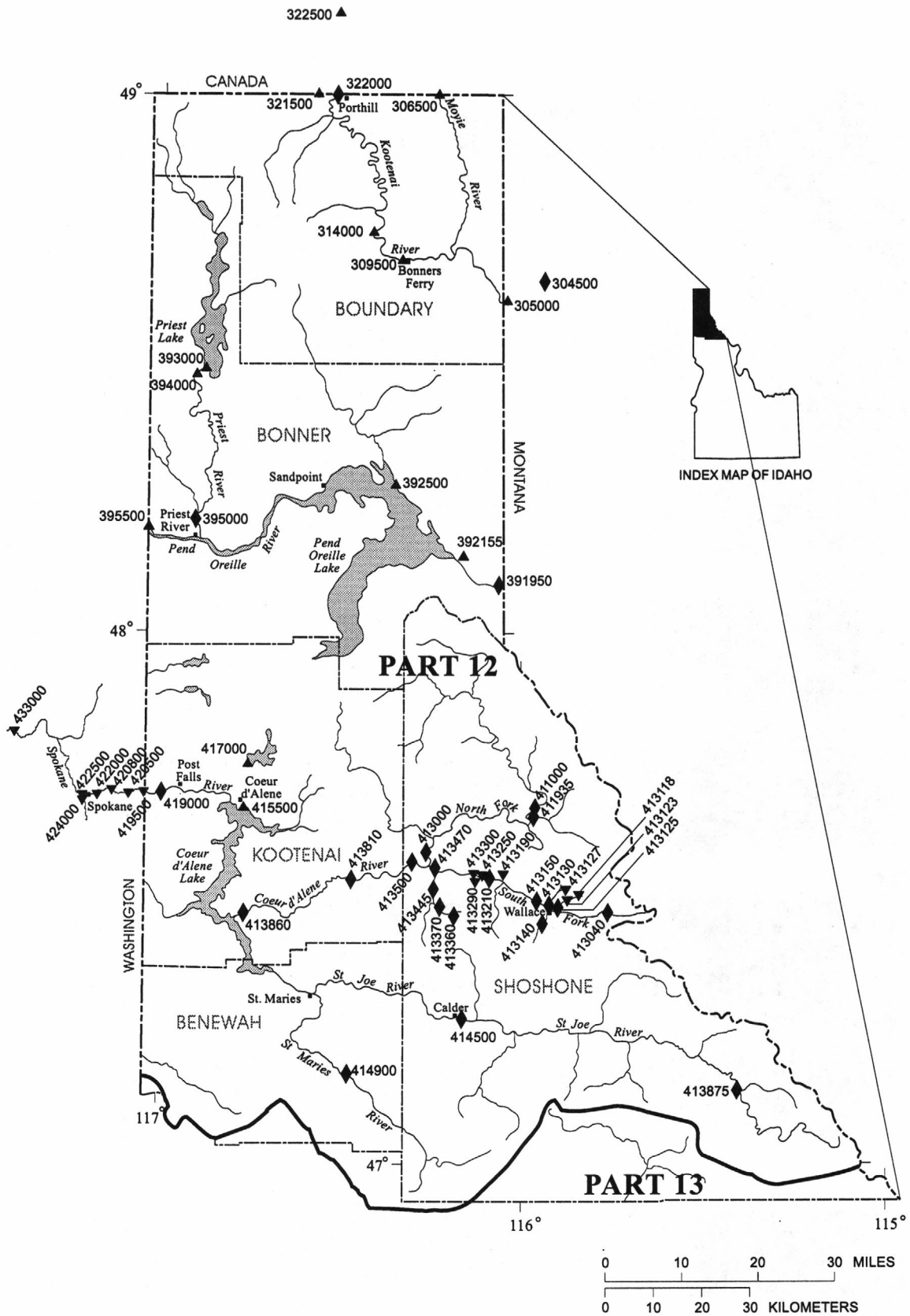


Figure 5. Locations of surface-water and water-quality stations in north Idaho and water-quality stations in the Spokane River basin in Washington.

Figure 6. Locations of surface-water and water-quality stations in north-central Idaho.

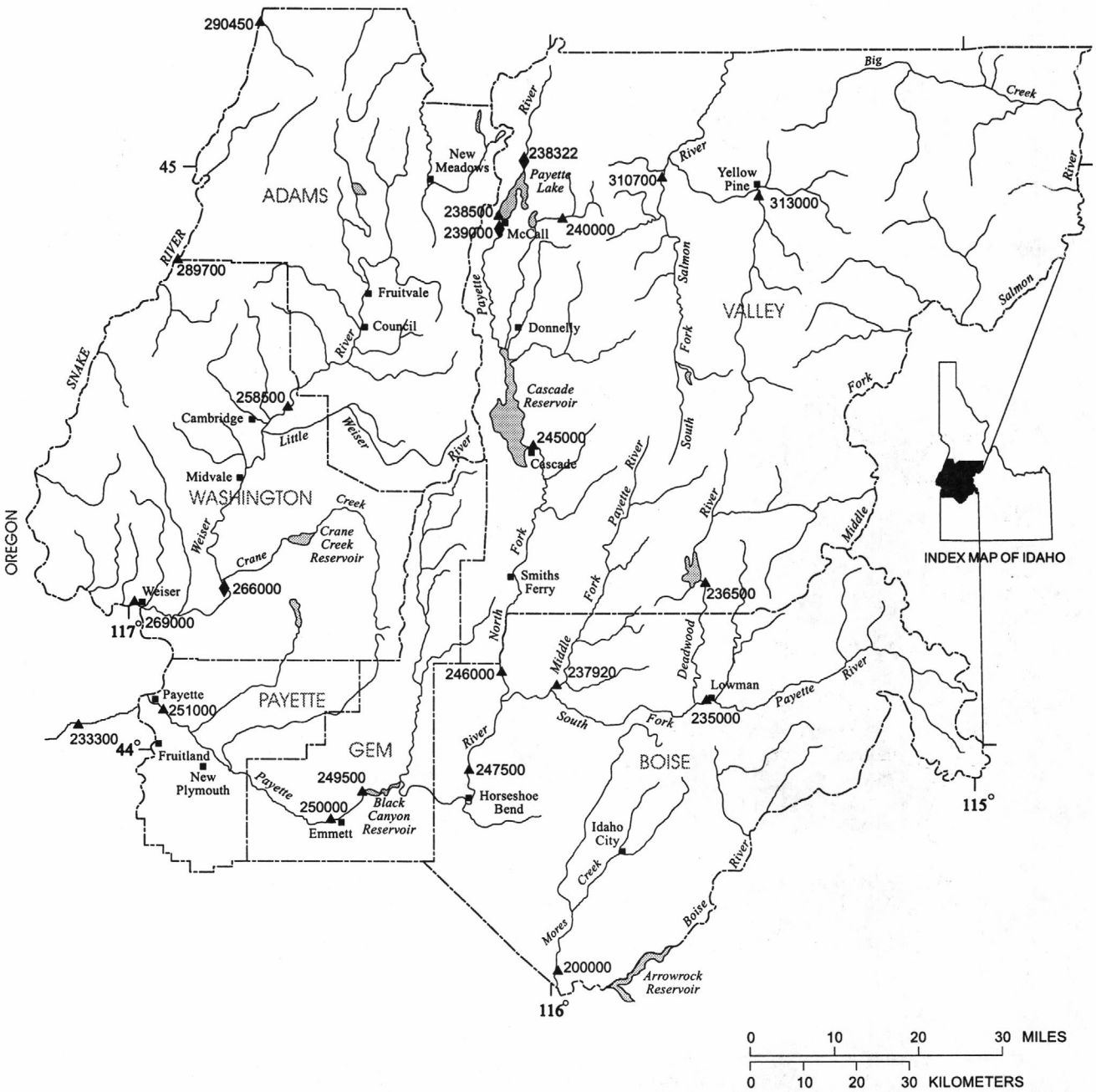


Figure 7. Locations of surface-water and water-quality stations in west-central Idaho.

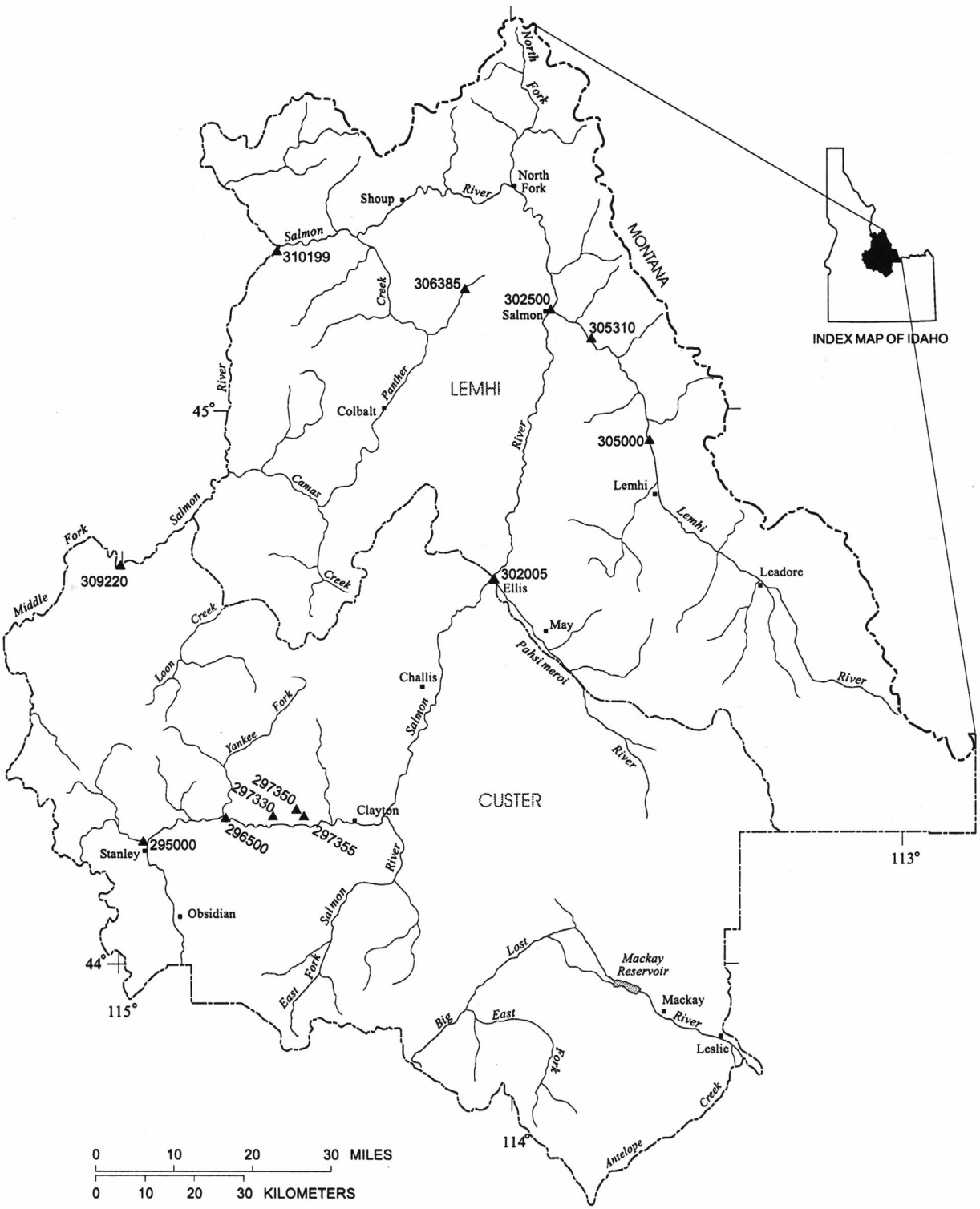


Figure 8. Locations of surface-water and water-quality stations in east-central Idaho.

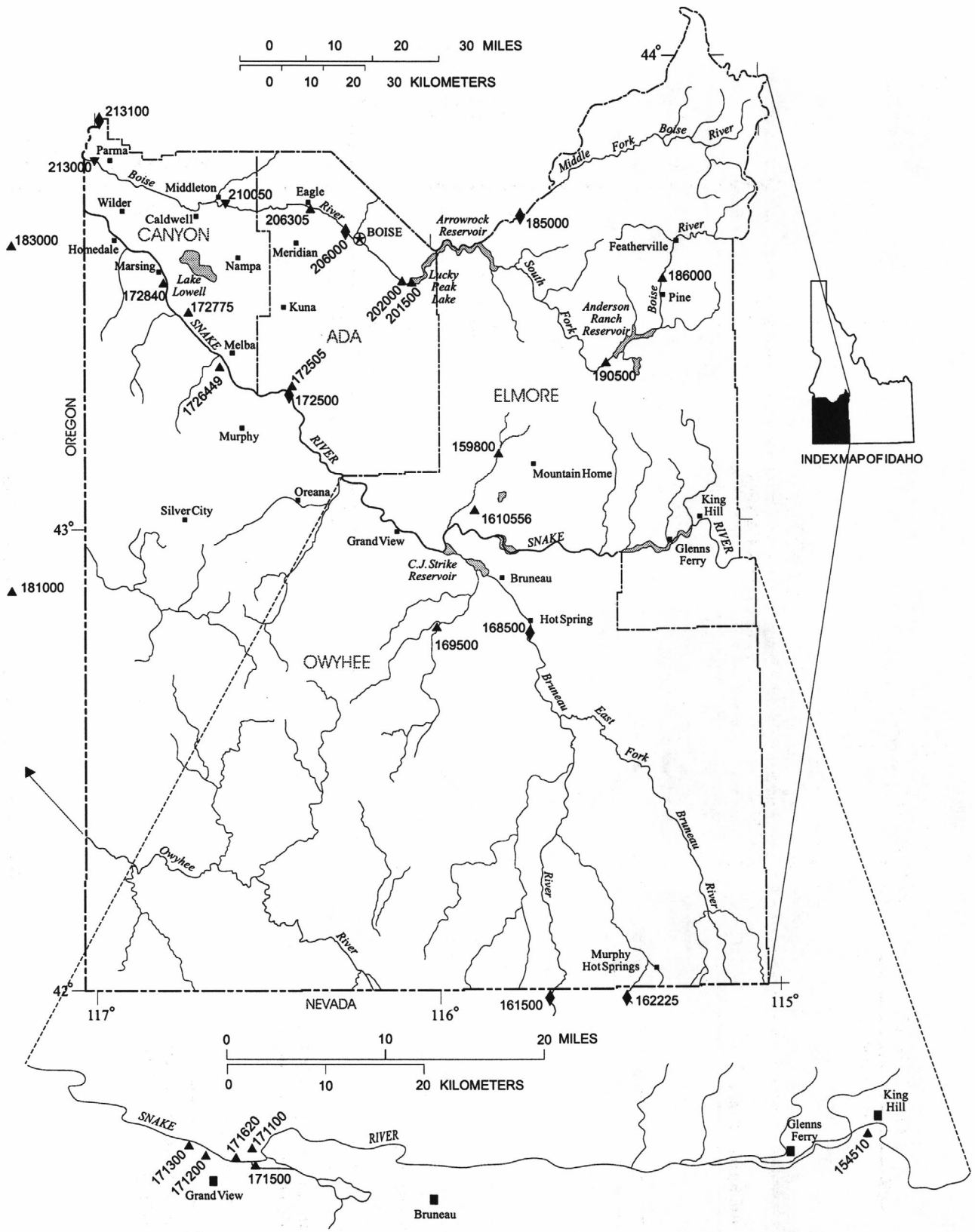


Figure 9. Locations of surface-water and water-quality stations in southwest Idaho.

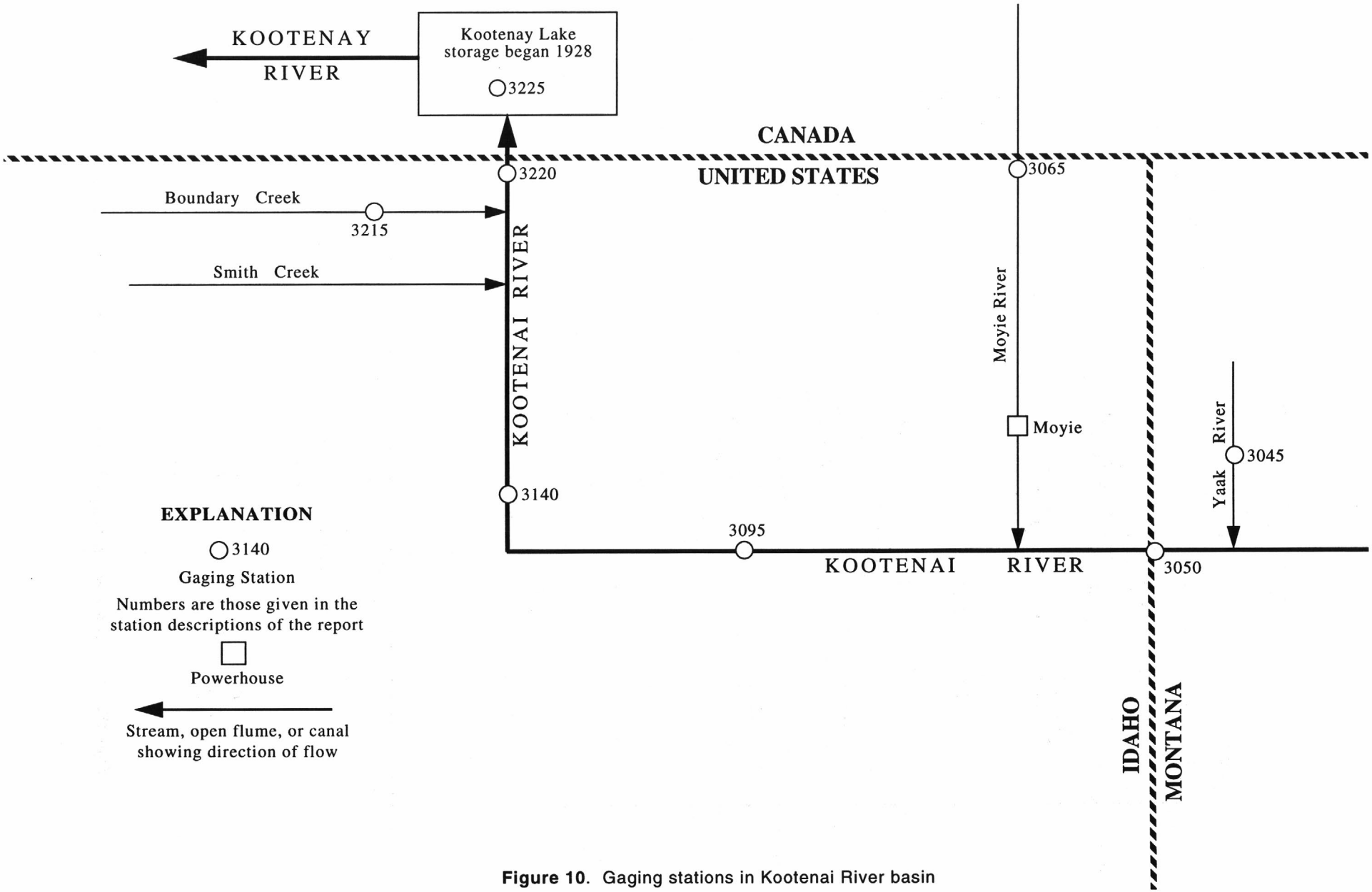
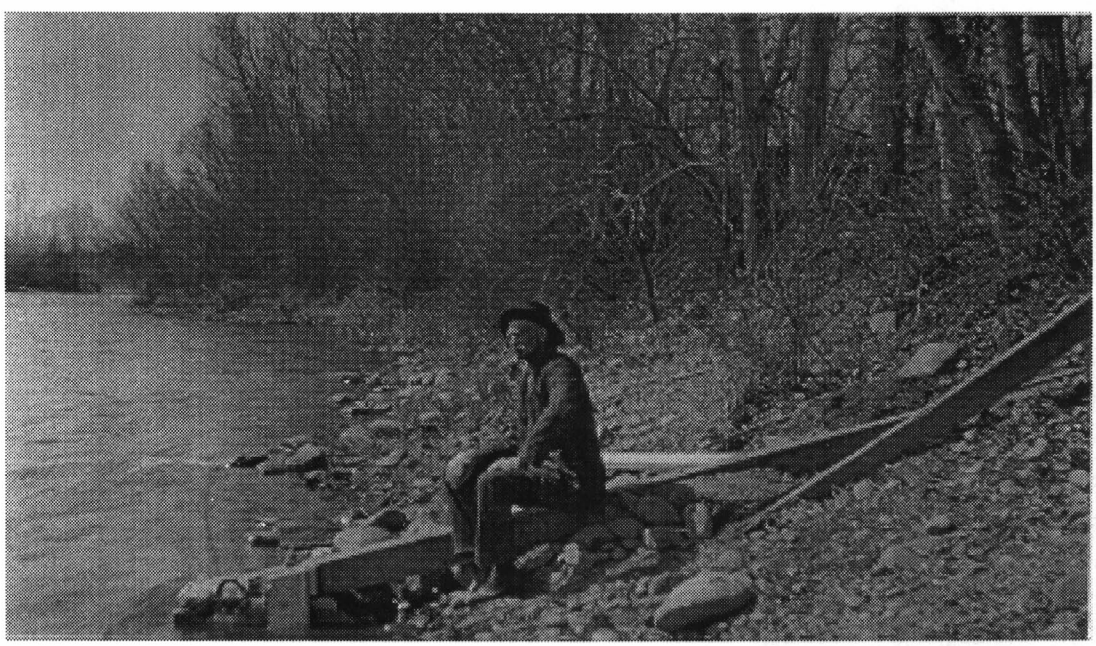


Figure 10. Gaging stations in Kootenai River basin



Sloping gage at Salmon River at Salmon, Idaho (April 1924)

KOOTENAI RIVER BASIN

12304500 YAAK RIVER NEAR TROY, MT

LOCATION.--Lat 48°33'43", long 115°58'09", in NE¼SE¼SE¼ sec.5, T.32 N., R.34 W., Lincoln County, Montana, Hydrologic Unit 17010103, Kootenai National Forest, on right bank 500 ft upstream from bridge on U.S. Highway 2, 0.3 mi upstream from mouth, and 7.7 mi northwest of Troy.

DRAINAGE AREA.--766 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to September 1916 (fragmentary record), March 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,839.2 ft above sea level. Oct. 15, 1910 to Sept. 30, 1916, nonrecording gage at several sites within 11 mi of present site at various datums.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation upstream from station. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft^3/s May 17, 1997, gage height, 9.58; maximum gage height, May 21, 1956, 9.70 ft in gage well, 10.8 ft from outside gage; minimum daily, 50 ft^3/s Dec. 9, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May to June 1948 reached a stage of 11.0 ft, from floodmarks; discharge, 12,500 ft^3/s. Flood in May 1954 reached a stage of 11.4 ft, from floodmarks; discharge, 13,400 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,780 ft^3/s May 4, gage height, 7.25; minimum daily, 98 ft^3/s Aug. 28 to Sept. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	274	436	304	230	331	932	2800	1640	540	169	98
2	115	241	441	302	274	334	1300	3550	1580	506	160	100
3	113	203	429	278	267	345	1450	4270	1600	472	153	111
4	113	226	387	281	238	405	1670	4510	1600	473	148	115
5	113	242	341	276	250	604	2340	3800	1680	469	145	114
6	113	216	339	269	242	702	2100	3210	1730	442	143	113
7	113	213	374	271	240	646	1700	2790	1680	435	139	117
8	132	212	360	275	245	589	1490	2500	1640	420	137	116
9	246	210	330	277	322	547	1550	2420	1740	424	132	182
10	219	218	329	254	322	526	1900	2630	1520	442	130	168
11	189	310	329	247	303	520	2290	2480	1300	417	127	168
12	219	524	351	251	306	519	2770	2220	1290	377	127	141
13	234	2100	447	254	295	512	3330	2040	1820	357	123	129
14	213	1990	421	258	269	514	3150	1970	1500	334	118	119
15	190	1130	393	262	287	500	2580	1950	1600	315	116	113
16	170	794	496	248	275	483	2440	2100	1380	301	115	109
17	154	664	555	253	252	473	2510	2450	1220	289	113	105
18	149	619	541	228	272	455	2690	2920	1130	276	111	102
19	144	554	490	220	253	477	3000	3150	1170	264	108	103
20	139	524	420	218	242	453	3440	3140	1040	253	106	102
21	136	520	389	238	264	438	3850	3490	936	244	106	116
22	134	480	389	256	270	438	4290	4000	964	235	106	126
23	132	446	379	261	293	570	4210	3840	890	230	106	117
24	130	426	365	258	318	643	3540	3270	811	224	104	111
25	127	432	350	256	319	641	2960	2940	773	216	104	110
26	160	438	336	256	312	630	2550	2650	718	207	103	108
27	167	418	284	256	314	666	2360	2340	676	198	100	107
28	180	383	260	235	322	835	2760	2280	640	191	98	104
29	252	374	271	234	329	930	2960	2130	624	184	98	102
30	227	375	292	233	---	897	2730	1960	583	179	98	121
31	234	---	300	230	---	879	---	1830	---	173	98	---
TOTAL	5073	15756	11824	7939	8125	17502	76842	87630	37475	10087	3741	3547
MEAN	164	525	381	256	280	565	2561	2827	1249	325	121	118
MAX	252	2100	555	304	329	930	4290	4510	1820	540	169	182
MIN	113	203	260	218	230	331	932	1830	583	173	98	98
AC-FT	10060	31250	23450	15750	16120	34720	152400	173800	74330	20010	7420	7040
CFSM	.21	.69	.50	.33	.37	.74	3.34	3.69	1.63	.42	.16	.15
IN.	.25	.77	.57	.39	.39	.85	3.73	4.26	1.82	.49	.18	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2000, BY WATER YEAR (WY)

MEAN	205	330	333	297	363	611	1956	3568	1963	510	201	168
MAX	833	1192	1630	1552	1626	1872	3754	6463	4992	970	373	506
(WY)	1960	1996	1996	1974	1996	1972	1969	1997	1974	1969	1993	1959
MIN	84.0	93.2	108	94.6	103	140	634	1026	377	151	102	94.6
(WY)	1988	1980	1993	1988	1993	1977	1977	1977	1992	1977	1977	1987

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1957 - 2000	
ANNUAL TOTAL	359714		285541			
ANNUAL MEAN	986		780		877	
HIGHEST ANNUAL MEAN					1562	1974
LOWEST ANNUAL MEAN					278	1977
HIGHEST DAILY MEAN	8030	May 26	4510	May 4	11600	May 16 1997
LOWEST DAILY MEAN	108	Sep 24	98	Aug 28	50	Dec 9 1972
ANNUAL SEVEN-DAY MINIMUM	112	Sep 19	99	Aug 27	61	Dec 7 1972
ANNUAL RUNOFF (AC-FT)	713500		566400		635100	
ANNUAL RUNOFF (CFSM)	1.29		1.02		1.14	
ANNUAL RUNOFF (INCHES)	17.47		13.87		15.55	
10 PERCENT EXCEEDS	2830		2460		2630	
50 PERCENT EXCEEDS	364		322		294	
90 PERCENT EXCEEDS	147		114		126	

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-73, 1975-85, May 1999 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Seasonally 1963-73, 1975-85, April to September 2000.

INSTRUMENTATION.--Water temperature probe installed by U.S. Army Corps of Engineers.

REMARKS.--Prior to March 25, 1975, temperature records furnished by U.S. Army Corps of Engineers. Missing data for Apr. 15, 23, 24, June 12, and July 4 due missing or erroneous transmissions. Unpublished records of instantaneous water temperature are available in files of the District office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 27.5°C, Aug. 8, 9, 2000; minimum, 0.0°C on many days during winter periods most years.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: For period April though September, maximum, 27.5°C, Aug. 8, 9; minimum, 1.5°C on April 14.

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT 1999							
20...	0945	139	8.1	112	6.5	12.0	.001
APR 2000							
11...	1145	2270	7.6	59	14.0	4.5	<.001
MAY							
11...	1030	2500	7.8	62	10.0	5.5	.002
JUL							
20...	0830	252	8.3	104	15.0	18.0	.001

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 1999							
20...	<.005	E.10	<.001	<.008	1	.38	63
APR 2000							
11...	.009	.18	<.001	.010	6	37	83
MAY							
11...	.008	.11	<.001	<.008	4	27	78
JUL							
20...	<.005	.13	<.001	E.004	7	4.8	97

DATE	TIME	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
OCT 1999											
20...	0945	52	15	3.4	.8	.1	2.3	58	.6	<.1	11
MAY 2000											
11...	1030	28	8.3	1.8	.5	.1	1.2	32	E.2	<.1	9.8

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT 1999											
20...	1.6	70	.09	26	<3	<.1	<1	E.8	<1	<2	<31
MAY 2000											
11...	.9	E42	E.06	E284	<3	<.1	<1	1	<1	<1	1

E Positive detection but below stated detection limit.

KOOTENAI RIVER BASIN

12304500 YAAK RIVER NEAR TROY, MT--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR APRIL TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
								APRIL			MAY	
1							7.5	2.5	5.0	10.5	5.0	7.5
2							6.5	3.5	5.0	9.0	6.0	7.0
3							7.5	2.5	4.5	6.5	5.5	6.0
4							5.5	3.5	4.5	6.0	4.0	5.5
5							4.0	2.5	3.5	7.0	4.5	5.5
6							4.0	2.5	3.5	8.5	4.5	6.5
7							6.5	2.0	4.0	8.5	4.5	6.5
8							7.5	2.5	5.0	8.0	5.0	6.5
9							8.0	3.5	5.5	8.0	6.0	7.0
10							8.0	4.0	5.5	8.5	6.0	7.0
11							7.5	4.5	6.0	7.5	5.5	6.5
12							8.5	4.0	6.0	8.5	5.0	6.5
13							6.5	4.0	5.0	10.0	4.5	7.0
14							4.0	1.5	2.0	8.5	5.0	7.0
15							---	---	---	10.0	5.5	7.5
16							6.0	3.0	4.0	9.5	5.0	7.5
17							6.5	4.0	5.0	11.0	6.5	8.5
18							8.5	3.5	5.5	11.0	6.5	8.5
19							8.5	4.0	6.0	9.0	6.0	7.5
20							8.5	4.5	6.5	9.0	5.0	7.5
21							8.0	5.0	6.5	8.5	6.0	7.0
22							7.0	5.0	6.0	10.0	6.0	7.5
23							6.5	4.0	5.0	10.0	5.5	7.5
24							7.0	---	5.5	10.0	4.5	7.5
25							---	4.5	5.5	9.5	5.5	7.5
26							8.5	3.5	5.0	8.0	5.0	6.5
27							10.0	5.0	7.0	7.5	5.5	6.5
28							8.5	6.5	7.5	8.0	5.0	6.5
29							8.5	5.0	6.5	8.5	4.5	6.5
30							9.5	5.0	7.0	7.0	4.5	6.0
31							---	---	---	7.5	5.0	6.0
MONTH							---	---	---	11.0	4.0	6.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.5	4.0	6.5	19.5	14.0	16.5	26.0	20.5	22.5	16.5	12.5	14.5
2	8.5	5.5	7.0	18.5	14.0	16.5	26.0	18.5	22.0	16.0	12.5	14.5
3	9.5	6.0	7.5	17.0	12.0	13.5	26.5	18.5	22.5	16.0	10.5	13.5
4	11.0	6.0	8.5	---	10.5	---	26.0	18.5	22.0	16.0	10.0	13.0
5	9.5	6.5	8.5	16.0	9.0	12.0	25.0	18.5	22.0	13.0	10.0	12.0
6	11.0	7.0	8.5	15.5	12.0	13.5	26.0	19.0	22.0	14.5	9.0	12.0
7	12.0	7.0	9.5	17.0	11.5	14.5	26.5	19.5	22.5	16.0	11.0	12.5
8	10.0	7.5	8.0	18.5	11.5	14.5	27.5	20.0	23.0	14.0	10.5	12.5
9	10.5	7.0	8.5	18.5	13.0	15.5	27.5	20.0	22.5	12.5	8.0	10.0
10	9.0	6.5	8.0	16.5	12.5	14.5	26.0	19.0	22.5	12.5	7.5	10.0
11	9.0	6.5	7.5	19.5	12.0	15.0	25.0	19.0	22.0	14.5	9.0	11.5
12	---	6.0	7.0	20.5	13.5	16.5	22.5	15.5	19.0	15.0	10.5	12.0
13	8.0	5.0	6.5	22.0	14.5	18.5	22.5	14.5	18.0	19.5	10.0	13.5
14	9.0	6.5	7.5	20.0	16.5	18.5	22.5	14.5	18.0	19.5	11.5	15.0
15	10.5	6.5	8.5	19.0	15.5	17.5	21.5	13.5	16.5	18.5	12.5	15.5
16	12.5	6.5	9.0	22.0	14.0	18.0	22.5	13.5	16.5	20.0	13.5	16.0
17	13.0	6.5	9.5	20.5	17.0	19.0	22.0	13.0	16.5	20.5	13.5	16.5
18	12.0	8.0	10.0	20.5	15.5	18.5	22.0	14.0	16.5	21.0	15.5	17.5
19	14.5	8.5	10.5	21.0	16.5	19.0	19.5	15.0	16.5	17.5	13.0	15.5
20	13.0	7.5	10.5	22.5	17.5	20.0	20.5	12.0	15.5	14.5	10.0	11.5
21	15.0	8.5	11.5	23.0	17.5	21.0	21.0	10.0	15.0	11.0	6.5	9.0
22	15.5	10.0	12.5	21.5	19.0	20.5	20.5	12.0	15.5	9.0	4.5	6.5
23	14.0	10.0	12.0	21.5	18.0	19.5	21.5	11.5	16.0	8.5	2.0	5.0
24	13.0	9.5	11.0	21.0	12.5	17.0	19.0	13.5	15.5	9.0	2.0	5.5
25	17.5	8.5	12.5	23.5	14.0	18.0	20.5	11.0	15.0	11.0	4.5	7.0
26	16.0	11.0	13.5	23.5	17.0	19.5	19.5	12.5	15.5	13.0	4.5	8.5
27	17.0	10.0	13.5	24.0	18.0	19.5	17.5	11.0	14.0	13.0	7.0	9.0
28	17.0	11.5	14.0	25.5	19.0	21.5	18.0	9.0	13.0	11.5	7.0	9.0
29	18.0	12.0	15.0	25.5	17.5	21.0	14.5	9.0	12.0	10.5	6.0	8.5
30	17.5	13.0	16.0	25.5	17.5	22.0	19.0	10.0	13.5	10.5	7.0	9.5
31	---	---	---	27.0	19.0	22.5	17.0	11.5	14.0	---	---	---
MONTH	---	4.0	10.0	---	9.0	---	27.5	9.0	18.0	21.0	2.0	11.5

KOOTENAI RIVER BASIN

12305000 KOOTENAI RIVER AT LEONIA, ID

LOCATION.--Lat 48°37'04", long 116°02'47", in NW¼NW¼NW¼ sec.20, T.33 N., R.34 W., principal Meridian, Lincoln County, Mont., Hydrologic Unit 17010104, on right bank at Leonia, 450 ft east of Montana-Idaho State line, 0.5 mi upstream from Boulder Creek, and at mile 171.6.

DRAINAGE AREA.--11,740 mi^2, approximately.

PERIOD OF RECORD.--March 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,790.25 ft above sea level. Prior to Oct. 1, 1970, at datum 90 ft lower. Prior to Nov. 13, 1928, nonrecording gage on bridge 250 ft upstream at datum 90.41 ft lower.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 14,600 acres. Flow regulated by Libby Dam and power plant since Mar. 21, 1972.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1929-71), 123,000 ft^3/s May 28, 1948, gage height, 33.40 ft; minimum, 996 ft^3/s Dec. 9, 1936, minimum gage height, 7.56 ft, Dec. 10, 1929. Maximum discharge since regulation (1972-97), 62,000 ft^3/s Jan. 16, 1974, gage height, 24.15 ft; maximum gage height, 25.06 ft, Feb. 9, 1996; minimum daily, 2,270 ft Dec. 9, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of June 1894 and 1916 reached stages of 34.6 and 31.6 ft, respectively, present datum, from information by Great Northern Railway.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 32,900 ft^3/s June 13,15; minimum daily, 6,070 ft^3/s Mar. 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12300	13500	28400	22100	18700	10200	7520	11800	9980	13700	9170	8960
2	12300	13200	28100	20200	20100	9450	8160	14000	9580	12100	9150	8980
3	12300	13000	21700	23200	21800	9430	8680	15900	9540	11100	9150	9020
4	12300	12800	28100	27600	21700	9650	9140	16300	9670	10600	9120	9010
5	12300	11700	28500	27400	20600	10200	10800	14500	9970	10400	9100	8970
6	12300	10700	28700	27300	19100	10500	10800	12900	10300	10200	9080	8980
7	12300	10000	28700	27200	19900	10400	9910	11700	11600	10200	9060	8970
8	12400	9620	28500	27100	21400	10300	9270	10900	12700	10200	9050	9000
9	13100	9580	28100	27100	19000	10200	9120	10700	14300	10200	9030	9090
10	12900	9710	28700	26900	17300	10200	9640	11100	13300	10100	9020	9160
11	12100	9880	28900	27000	17400	9940	10500	10700	14700	10000	9000	9160
12	11100	10400	29300	26900	15100	9190	11800	10200	24600	9920	8980	9070
13	10600	16500	29700	26700	12800	8370	13700	9780	32900	9860	8970	9030
14	10500	15200	29700	26900	17600	7190	14800	9580	32100	9770	8960	8990
15	12400	12500	29500	26600	21500	6480	13400	9530	32900	9680	8970	8970
16	12600	15200	28900	26600	20100	6360	12600	9960	31900	9680	9000	8950
17	12500	19200	30100	26400	18700	6290	12500	11000	31000	9630	9000	8920
18	12500	18700	25600	26400	17200	6200	13100	12600	30600	9580	8990	8790
19	12500	18600	22700	26000	14600	6260	14000	13400	30600	9580	8980	8800
20	12500	19000	25000	25700	12400	6210	15300	13300	29800	9470	8980	8790
21	12500	18400	29300	25800	17000	6120	16000	14300	29600	9440	8980	8850
22	12400	19600	29000	25600	20700	6070	17200	16500	29900	9470	8990	8830
23	12400	27500	24700	25300	20600	6570	17100	16100	29500	9430	9140	8370
24	12400	27600	19100	25200	20800	6910	15100	14200	29000	9410	9020	7520
25	11900	27900	17100	25100	20800	6890	13200	13100	28800	9360	8990	6940
26	12100	28200	17000	25300	15300	6810	11700	12200	28600	9320	8960	6820
27	12700	28400	22100	25100	11000	6890	11000	11400	28500	9290	8930	6790
28	12900	28200	27900	22400	12400	7290	11700	11300	28400	9260	8920	6760
29	13500	28200	27800	20000	11100	7620	12400	10900	24400	9230	8930	6760
30	13400	28000	27800	19500	---	7560	11700	10300	16400	9220	8940	6870
31	13500	---	27700	21000	---	7460	---	10200	---	9200	8940	---
TOTAL	383500	530990	826400	781600	516700	249210	361840	380350	675140	308600	279500	254120
MEAN	12370	17700	26660	25210	17820	8039	12060	12270	22500	9955	9016	8471
MAX	13500	28400	30100	27600	21800	10500	17200	16500	32900	13700	9170	9160
MIN	10500	9580	17000	19500	11000	6070	7520	9530	9540	9200	8920	6760
AC-FT	760700	1053000	1639000	1550000	1025000	494300	717700	754400	1339000	612100	554400	504000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1971, BY WATER YEAR (WY) (UNREGULATED)

MEAN	6528	5705	4768	4049	4364	4898	14540	38860	45570	23050	10010	7045
MAX	15540	11280	13700	11330	10630	10390	39940	61770	74280	47510	16910	16560
(WY)	1948	1934	1934	1934	1951	1934	1934	1956	1967	1954	1954	1959
MIN	3532	2748	2477	1922	1994	2693	4334	18630	20630	9819	6142	4744
(WY)	1937	1937	1945	1937	1936	1944	1945	1944	1941	1944	1941	1936

SUMMARY STATISTICS	[a] WATER YEARS 1929 - 1971	
ANNUAL MEAN	14150	
HIGHEST ANNUAL MEAN	19240	1956
LOWEST ANNUAL MEAN	7416	1944
HIGHEST DAILY MEAN	122000	May 28 1948
LOWEST DAILY MEAN	1070	Dec 8 1936
ANNUAL SEVEN-DAY MINIMUM	1310	Jan 2 1937
ANNUAL RUNOFF (AC-FT)	10250000	
10 PERCENT EXCEEDS	37800	
50 PERCENT EXCEEDS	6750	
90 PERCENT EXCEEDS	3240	

KOOTENAI RIVER BASIN

12305000 KOOTENAI RIVER AT LEONIA, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2000, BY WATER YEAR (WY) (REGULATED, UNADJUSTED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	15230	17210	16570	15940	13020	9120	11230	15700	17050	12600	11290	11470
MAX	31980	26400	28140	28610	24790	15160	25570	31670	39200	29600	20310	20960
(WY)	1973	1992	1991	1976	1990	1990	1996	1997	1972	1981	1976	1972
MIN	5635	5004	3423	3109	3724	4350	5644	8352	5374	4139	3956	5539
(WY)	1972	1972	1972	1972	1973	1973	1973	1977	1977	1988	1975	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		[b] WATER YEARS 1972 - 2000	
ANNUAL TOTAL	6080880		5547950			
ANNUAL MEAN	16660		15160		13870	
HIGHEST ANNUAL MEAN					20400	1996
LOWEST ANNUAL MEAN					10210	1993
HIGHEST DAILY MEAN	35700	Jun 16	32900	Jun 13	56200	Jan 16 1974
LOWEST DAILY MEAN	5850	Mar 13	6070	Mar 22	2270	Dec 9 1972
ANNUAL SEVEN-DAY MINIMUM	6180	Mar 12	6220	Mar 16	2420	Dec 7 1972
ANNUAL RUNOFF (AC-FT)	12060000		11000000		10050000	
10 PERCENT EXCEEDS	27900		28100		24500	
50 PERCENT EXCEEDS	14100		12300		12300	
90 PERCENT EXCEEDS	9470		8920		5020	

a Unregulated
b Regulated, unadjusted.

KOOTENAI RIVER BASIN

12306500 MOYIE RIVER AT EASTPORT, ID
(International gaging station)

LOCATION.--Lat 48°59'58", long 116°10'43", in NW¼NE¼SE¼ sec.10, T.65 N., R.2 E., Boundary County, Hydrologic Unit 17010105, Idaho Panhandle National Forests, on left bank at Eastport, 1,000 ft downstream from international boundary, and at mile 25.0.

DRAINAGE AREA.--570 mi^2, approximately.

PERIOD OF RECORD.--January to December 1915, March to December 1916, August 1929 to current year in reports of Geological Survey. Monthly discharge only for some periods, published in WSP 1736.

GAGE.--Water-stage recorder. Datum of gage is 2,620.06 ft above sea level. January 1915 to December 1916 nonrecording gage at site 0.2 mi upstream at different datum.

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

COOPERATION.--This station is one of the international gaging stations maintained by the United States under agreement with Canada.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 10,600 ft^3/s June 19, 1916; maximum gage height, 10.55 ft, May 20, 1954; minimum discharge, 23 ft^3/s Nov. 7, 1936, gage height, 3.20 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 4	0300	*3,880	*7.48	May 23	0015	3,820	7.44

Minimum daily, 50 ft^3/s Sept. 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	151	550	257	e160	195	542	2310	1970	544	120	59
2	77	133	541	259	e190	197	740	2920	1840	506	117	61
3	77	129	520	e240	e170	204	761	3430	1820	470	114	61
4	76	153	475	e240	e150	235	909	3710	1780	450	114	61
5	75	140	458	244	e150	301	1150	3270	1800	429	111	59
6	75	145	465	e240	e170	318	1010	2970	1840	413	106	57
7	75	149	449	242	176	305	900	2660	1790	411	103	57
8	89	146	417	241	180	295	847	2420	1750	374	100	56
9	160	148	409	238	201	289	920	2320	1770	372	95	63
10	110	161	396	e220	e180	285	1100	2350	1620	381	93	59
11	101	226	383	e220	e170	284	1280	2170	1480	353	88	57
12	114	512	393	e220	e180	285	1560	1990	1480	332	84	56
13	117	2050	404	232	e170	283	1830	1870	1640	314	79	54
14	113	2280	379	233	e160	293	1730	1820	1480	295	77	52
15	109	2190	382	229	e160	290	1580	1810	1540	276	75	52
16	105	1940	381	233	e170	290	1540	1960	1410	262	73	52
17	104	1710	377	227	e150	284	1600	2250	1310	250	71	52
18	100	1510	383	e190	e150	279	1720	2740	1240	233	67	52
19	100	1320	349	e160	e150	290	1850	2950	1230	216	65	50
20	100	1190	337	e160	e140	277	2110	3030	1120	200	65	50
21	98	1090	333	e170	e150	274	2330	3310	1050	189	63	56
22	95	967	326	e180	e160	270	2620	3600	996	182	61	56
23	96	878	315	e180	177	326	2720	3590	925	174	59	56
24	96	803	304	e170	183	335	2460	3280	854	168	59	54
25	94	749	297	e180	180	327	2220	3080	812	157	59	54
26	108	702	e260	e180	181	331	2010	2840	754	150	59	54
27	112	642	e240	e180	185	367	1910	2640	707	139	59	52
28	113	601	e240	e180	192	445	2290	2760	667	132	59	52
29	134	555	e240	e180	193	464	2350	2560	633	126	59	53
30	123	551	e260	e180	---	472	2200	2390	583	123	61	64
31	134	---	260	e170	---	480	---	2200	---	123	59	---
TOTAL	3157	23921	11523	6475	4928	9570	48789	83200	39891	8744	2474	1671
MEAN	102	797	372	209	170	309	1626	2684	1330	282	79.8	55.7
MAX	160	2280	550	259	201	480	2720	3710	1970	544	120	64
MIN	75	129	240	160	140	195	542	1810	583	123	59	50
AC-FT	6260	47450	22860	12840	9770	18980	96770	165000	79120	17340	4910	3310
CFSM	.18	1.40	.65	.37	.30	.54	2.85	4.71	2.33	.49	.14	.10
IN.	.21	1.56	.75	.42	.32	.62	3.18	5.43	2.60	.57	.16	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000, BY WATER YEAR (WY)

MEAN	144	228	218	166	182	295	1316	3129	1957	475	137	99.0
MAX	907	797	1062	647	926	871	3303	5130	4862	1204	374	382
(WY)	1948	2000	1942	1934	1951	1972	1934	1956	1974	1954	1993	1959
MIN	38.6	42.2	53.3	41.9	54.7	69.4	317	1174	429	127	58.1	43.5
(WY)	1988	1937	1945	1937	1937	1944	1970	1944	1992	1940	1936	1967

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1929 - 2000	
ANNUAL TOTAL	338649		244343			
ANNUAL MEAN	928		668		697	
HIGHEST ANNUAL MEAN					1157	1974
LOWEST ANNUAL MEAN					244	1944
HIGHEST DAILY MEAN	6600	May 26	3710	May 4	8930	May 20 1954
LOWEST DAILY MEAN	75	Oct 5	50	Sep 19	30	Jan 2 1937
ANNUAL SEVEN-DAY MINIMUM	76	Oct 1	51	Sep 14	30	Jan 2 1937
ANNUAL RUNOFF (AC-FT)	671700		484700		505100	
ANNUAL RUNOFF (CFSM)	1.63		1.17		1.22	
ANNUAL RUNOFF (INCHES)	22.10		15.95		16.62	
10 PERCENT EXCEEDS	2650		2130		2290	
50 PERCENT EXCEEDS	304		254		182	
90 PERCENT EXCEEDS	105		61		68	

e Estimated

KOOTENAI RIVER BASIN

12306500 MOYIE RIVER AT EASTPORT, ID--Continued
(International gaging station)

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.44	3.70	4.51	3.98	3.94	3.89	4.54	6.31	6.02	4.54	3.66	3.38
2	3.44	3.65	4.50	3.98	3.89	3.89	4.80	6.79	5.90	4.49	3.64	3.39
3	3.44	3.64	4.47	3.95	3.82	3.91	4.83	7.17	5.89	4.43	3.63	3.39
4	3.43	3.71	4.39	3.98	3.98	3.98	5.00	7.36	5.86	4.40	3.63	3.39
5	3.43	3.67	4.36	3.95	3.85	4.13	5.27	7.06	5.88	4.37	3.62	3.38
6	3.43	3.69	4.37	3.96	3.82	4.17	5.12	6.83	5.91	4.34	3.60	3.37
7	3.43	3.70	4.35	3.94	3.81	4.14	4.99	6.59	5.86	4.34	3.59	3.37
8	3.49	3.69	4.30	3.94	3.82	4.12	4.93	6.40	5.83	4.27	3.58	3.36
9	3.73	3.70	4.28	3.93	3.87	4.11	5.01	6.32	5.84	4.27	3.56	3.40
10	3.57	3.73	4.26	3.93	3.87	4.10	5.21	6.34	5.71	4.28	3.55	3.38
11	3.54	3.90	4.24	3.98	3.87	4.10	5.40	6.19	5.58	4.23	3.53	3.37
12	3.59	4.39	4.26	3.94	3.86	4.10	5.66	6.04	5.58	4.19	3.51	3.36
13	3.60	6.10	4.27	3.92	3.86	4.09	5.90	5.94	5.73	4.16	3.49	3.35
14	3.59	6.30	4.23	3.92	3.83	4.11	5.81	5.89	5.59	4.12	3.47	3.34
15	3.57	6.23	4.24	3.91	3.89	4.11	5.68	5.88	5.63	4.08	3.46	3.34
16	3.56	6.01	4.23	3.92	3.83	4.11	5.64	6.01	5.52	4.05	3.45	3.34
17	3.55	5.79	4.23	3.90	3.83	4.10	5.69	6.26	5.43	4.02	3.44	3.34
18	3.54	5.61	4.24	3.88	3.81	4.08	5.80	6.66	5.36	3.98	3.42	3.34
19	3.54	5.42	4.17	3.94	3.80	4.11	5.92	6.82	5.35	3.94	3.41	3.33
20	3.54	5.30	4.15	4.01	3.81	4.08	6.14	6.88	5.23	3.90	3.41	3.33
21	3.53	5.18	4.14	4.12	3.80	4.07	6.32	7.08	5.16	3.87	3.40	3.36
22	3.52	5.04	4.12	3.96	3.80	4.07	6.56	7.29	5.10	3.85	3.39	3.36
23	3.52	4.94	4.10	3.87	3.84	4.18	6.64	7.28	5.02	3.83	3.38	3.36
24	3.52	4.85	4.08	3.83	3.85	4.20	6.44	7.06	4.94	3.80	3.38	3.35
25	3.52	4.78	4.06	3.96	3.85	4.18	6.24	6.91	4.89	3.77	3.38	3.35
26	3.57	4.72	4.08	3.89	3.85	4.19	6.06	6.73	4.82	3.75	3.38	3.35
27	3.58	4.64	4.16	3.84	3.86	4.26	5.97	6.58	4.76	3.72	3.38	3.34
28	3.59	4.59	4.29	3.82	3.88	4.39	6.29	6.67	4.71	3.70	3.38	3.34
29	3.65	4.52	4.02	3.82	3.88	4.42	6.34	6.52	4.67	3.68	3.38	3.34
30	3.62	4.51	3.99	4.00	---	4.44	6.22	6.38	4.60	3.67	3.39	3.41
31	3.65	---	3.98	3.99	---	4.45	---	6.22	---	3.67	3.38	---
MEAN	3.54	4.66	4.23	3.93	3.85	4.14	5.68	6.60	5.41	4.06	3.48	3.36
MAX	3.73	6.30	4.51	4.12	3.98	4.45	6.64	7.36	6.02	4.54	3.66	3.41
MIN	3.43	3.64	3.98	3.82	3.80	3.89	4.54	5.88	4.60	3.67	3.38	3.33

KOOTENAI RIVER BASIN

12309500 KOOTENAI RIVER AT BONNERS FERRY, ID

LOCATION.--Lat 48°42'00", long 116°18'45", in NW¼SE¼NE¼ sec.27, T.62 N., R.1 E., Boundary County, Hydrologic Unit 17010104, on left bank 90 ft downstream from new highway bridge at Bonners Ferry, and at mile 152.8.

DRAINAGE AREA.--12,690 mi^2, approximately.

PERIOD OF RECORD.--May to October 1904, October 1927 to current year (elevations only prior to March 1928 and October 1960 to current year). Gage heights collected in this vicinity since 1904 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 1716: Maximum elevation. WDR ID-78-2: 1975(m), 1976(M).

GAGE.--Water-stage recorder. Datum of gage is 1,700.00 ft with respect to U.S. Geological Survey benchmark V-3-1929 at elevation 1,777.08 ft. Gage heights have been reduced to that datum. Sea level is 0.02 ft higher. May 1 to Oct. 15, 1904, nonrecording gage on railroad bridge 0.8 mi downstream at different datum. Oct. 1, 1927, to Nov. 30, 1929, nonrecording gage near left bank. Dec. 1, 1929, to June 12, 1933, nonrecording gages on old highway bridge 40 ft downstream. Nonrecording gage near right bank on downstream side of highway bridge at Bonners Ferry June 13, 1933, to Sept. 30, 1960. May 8, 1942, to present, recording gage on left bank downstream from highway bridge at present datum. Datum of gages Oct. 1, 1927, to Jan. 2, 1931, was about 0.23 ft lower.

REMARKS.--Elevations affected by backwater from Kootenay Lake. No drainage district dike failed during year. Flow regulated by Libby Dam since Mar. 21, 1972 (see sta 12305000). Add 1,700 ft to gage heights to obtain elevations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,780.13 ft, May 29, 1961; minimum, 1,741.14 ft, Dec. 5, 1929, Dec. 29, 1930, datum then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1894 reached a stage of 1,777.2 ft, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,757.16 ft, June 15; minimum elevation, 1,745.19 ft, Mar. 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48.99	49.61	54.59	53.21	51.67	47.05	45.56	49.23	49.29	52.15	47.59	46.66
2	48.99	49.55	54.64	51.86	50.89	46.54	45.75	50.15	48.95	51.35	47.60	46.71
3	49.01	49.44	53.36	52.13	51.95	46.34	45.94	51.52	48.87	50.83	47.61	46.73
4	49.09	49.39	53.63	54.03	51.93	46.43	46.08	52.21	48.89	50.31	47.60	46.86
5	49.06	49.03	54.45	54.22	51.91	46.80	46.77	51.70	49.07	50.07	47.56	46.87
6	49.07	48.54	54.54	54.24	51.11	47.01	46.94	50.86	49.29	49.79	47.47	46.91
7	48.99	48.24	54.60	54.21	51.00	46.98	46.53	50.09	49.78	49.53	47.40	46.91
8	49.01	47.98	54.53	54.19	51.77	46.89	46.22	49.46	50.32	49.35	47.31	46.90
9	49.36	47.94	54.50	54.16	51.50	46.79	46.16	49.11	50.73	49.25	47.20	47.02
10	49.36	48.04	54.46	54.16	50.52	46.70	46.36	49.24	50.75	49.13	47.14	47.12
11	49.09	48.28	54.58	54.18	50.44	46.60	46.83	49.01	50.56	48.94	46.96	47.20
12	48.65	48.84	54.71	54.14	50.15	46.29	47.52	48.57	52.71	48.78	46.87	47.23
13	48.22	51.90	54.98	54.10	48.72	46.00	48.44	48.23	56.41	48.66	46.78	47.29
14	48.13	52.82	54.91	54.13	49.33	45.68	49.22	48.01	56.61	48.47	46.66	47.33
15	48.58	51.34	54.90	54.07	51.51	45.43	48.87	47.88	56.98	48.38	46.59	47.35
16	48.82	50.77	54.74	54.02	51.32	45.37	48.49	48.09	56.92	48.29	46.52	47.41
17	48.71	52.45	55.03	53.89	51.01	45.33	48.39	48.71	56.59	48.14	---	47.42
18	48.64	52.32	54.48	53.86	50.21	45.27	48.74	49.69	56.49	47.93	---	47.46
19	48.57	51.96	53.01	53.74	49.70	45.28	49.14	50.47	56.59	47.80	46.44	47.55
20	48.55	51.92	52.98	53.61	48.31	45.26	49.81	50.70	56.50	47.73	46.52	47.56
21	48.58	51.68	54.50	53.60	48.90	45.23	50.42	51.24	56.42	47.76	46.55	47.64
22	48.58	51.61	54.68	53.58	51.03	45.20	51.03	52.41	56.51	47.81	46.57	47.67
23	48.56	53.86	53.96	53.45	51.18	45.34	51.49	52.93	56.48	47.67	46.63	47.58
24	48.57	54.44	52.10	53.32	51.27	45.43	50.85	52.20	56.37	47.76	46.69	47.32
25	48.54	54.55	50.73	53.29	51.31	45.43	49.98	51.52	56.34	47.74	46.65	47.12
26	48.48	54.69	50.48	53.31	50.33	45.39	49.16	51.05	56.28	47.63	46.64	47.07
27	48.83	54.71	51.13	53.26	47.63	45.40	48.62	50.54	56.23	47.61	46.68	47.07
28	48.94	54.70	53.72	52.76	47.75	45.49	48.86	50.53	56.21	47.61	46.62	47.00
29	49.23	54.64	54.09	51.86	47.72	45.59	49.52	50.29	55.88	47.61	46.59	46.97
30	49.39	54.51	54.14	51.38	---	45.58	49.28	49.90	53.46	47.58	46.65	46.99
31	49.41	---	54.17	51.42	---	45.55	---	49.64	---	47.58	46.64	---
MEAN	48.84	51.33	53.91	53.46	50.42	45.92	48.23	50.17	53.75	48.69	---	47.16
MAX	49.41	54.71	55.03	54.24	51.95	47.05	51.49	52.93	56.98	52.15	---	47.67
MIN	48.13	47.94	50.48	51.38	47.63	45.20	45.56	47.88	48.87	47.58	---	46.66

CAL YR 1999 MEAN 51.00 MAX 61.01 MIN 45.13

KOOTENAI RIVER BASIN

12314000 KOOTENAI RIVER AT KLOCKMANN RANCH, NEAR BONNERS FERRY, ID

LOCATION.--Lat 48°47'38", long 116°22'51", in SE¼NW¼SE¼ sec.19, T.63 N., R.1 E., Boundary County, Hydrologic Unit 17010104, on right bank 0.3 mi downstream from dike of drainage district No. 5, 8 mi north of Bonners Ferry, and at mile 139.7.

DRAINAGE AREA.--13,300 mi^2, approximately.

PERIOD OF RECORD.--May to July, September to November 1928, April to September, December 1929, April 1930 to current year (elevations only, fragmentary prior to April 1930).

GAGE.--Water-stage recorder. Datum of gage is 1,700.00 ft above Topographic Division datum of 1928. Gage readings have been reduced to that datum. Sea level is about 0.03 ft higher. Prior to Sept. 12, 1928, several nonrecording gages within 300 ft at different datums.

REMARKS.--Elevations affected by backwater from Kootenay Lake. No drainage district dike failed during year. Flow regulated by Libby Dam since Mar. 21, 1972. Add 1,700 ft to gage heights to obtain elevations.

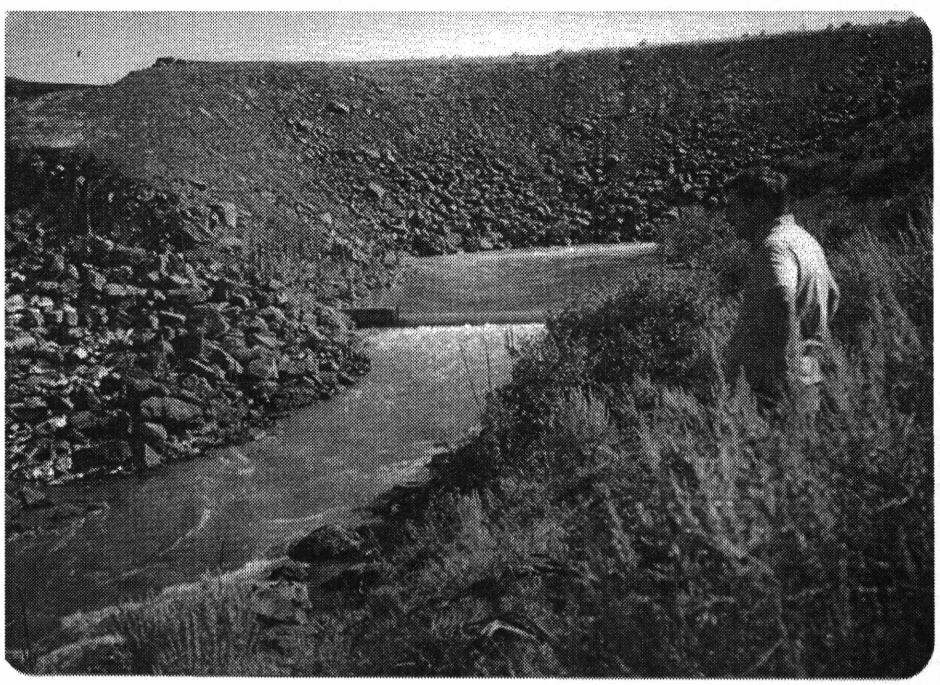
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,776.41 ft, June 7, 1961; minimum, 1,738.76 ft, Apr. 1, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,754.75 ft, June 15, 16; minimum, 1,741.60 ft, Mar. 27, 28.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47.55	48.02	52.15	51.03	49.41	44.88	41.70	47.12	47.85	51.13	46.48	45.31
2	47.55	48.01	52.17	49.80	48.51	44.44	41.91	47.88	47.56	50.47	46.47	45.39
3	47.55	47.87	51.22	49.83	49.47	44.18	42.23	49.19	47.49	50.02	46.46	45.42
4	47.58	47.79	51.13	51.36	49.47	44.23	42.47	49.95	47.49	49.52	46.47	45.57
5	47.56	47.53	51.98	51.68	49.49	44.57	43.29	49.61	47.66	49.26	46.39	45.62
6	47.53	47.18	52.08	51.68	48.77	44.73	43.73	48.89	47.88	48.96	46.29	45.68
7	47.45	46.98	52.15	51.68	48.57	44.70	43.39	48.20	48.28	48.67	46.23	45.69
8	47.48	46.77	52.10	51.66	49.18	44.60	42.96	47.63	48.74	48.46	46.12	45.68
9	47.72	46.73	52.08	51.64	49.11	44.48	42.81	47.29	49.04	48.35	45.98	45.80
10	47.71	46.84	52.04	51.66	48.18	44.37	43.03	47.33	49.15	48.21	45.87	45.91
11	47.53	47.08	52.15	51.64	48.07	44.25	43.60	47.16	48.89	48.02	45.66	46.01
12	47.18	47.68	52.24	51.60	47.90	43.96	44.37	46.74	50.38	47.85	45.50	46.08
13	46.78	50.20	52.46	51.57	46.66	43.59	45.35	46.43	53.80	47.73	45.41	46.18
14	46.64	51.11	52.44	51.60	46.81	43.19	46.22	46.21	54.17	47.55	45.34	46.24
15	46.82	49.82	52.45	51.56	48.75	42.80	46.09	46.05	54.55	47.42	45.22	46.29
16	46.99	49.09	52.32	51.51	48.72	42.63	45.78	46.17	54.59	47.30	45.10	46.37
17	46.90	50.35	52.54	51.39	48.47	42.44	45.70	46.68	54.32	47.13	45.01	46.41
18	46.84	50.24	52.23	51.33	47.75	42.30	46.06	47.57	54.26	46.90	44.96	46.48
19	46.77	49.91	50.90	51.22	47.38	42.27	46.46	48.35	54.39	46.72	44.98	46.59
20	46.75	49.82	50.67	51.10	46.13	42.18	47.09	48.65	54.35	46.60	45.07	46.61
21	46.76	49.66	51.98	51.07	46.29	41.98	47.75	49.17	54.30	46.63	45.13	46.68
22	46.79	49.50	52.18	51.06	48.24	41.83	48.37	50.30	54.39	46.69	45.15	46.74
23	46.81	51.16	51.71	50.94	48.46	41.81	48.95	50.91	54.41	46.55	45.21	46.70
24	46.86	51.84	50.14	50.82	48.55	41.91	48.50	50.36	54.34	46.63	45.32	46.56
25	46.89	51.98	48.88	50.77	48.58	41.85	47.74	49.79	54.31	46.60	45.32	46.44
26	46.89	52.14	48.61	50.78	48.09	41.72	47.02	49.40	54.27	46.47	45.33	46.41
27	47.19	52.17	48.89	50.76	45.69	41.63	46.52	48.98	54.22	46.39	45.37	46.41
28	47.30	52.14	51.11	50.40	45.45	41.67	46.68	48.96	54.22	46.36	45.28	46.35
29	47.54	52.08	51.58	49.61	45.47	41.84	47.34	48.78	54.06	46.38	45.22	46.33
30	47.69	52.08	51.64	49.11	---	41.81	47.19	48.44	52.20	46.41	45.30	46.34
31	47.80	---	51.68	49.03	---	41.72	---	48.19	---	46.44	45.30	---
MEAN	47.21	49.46	51.55	51.00	47.99	43.05	45.34	48.27	51.85	47.67	45.58	46.14
MAX	47.80	52.17	52.54	51.68	49.49	44.88	48.95	50.91	54.59	51.13	46.48	46.74
MIN	46.64	46.73	48.61	49.03	45.45	41.63	41.70	46.05	47.49	46.36	44.96	45.31

CAL YR 1999 MEAN 48.92 MAX 58.76 MIN 41.59
WTR YR 2000 MEAN 47.92 MAX 54.59 MIN 41.63



Weir at Crane Creek near Midvale, Idaho (July 1979)

KOOTENAI RIVER BASIN

12321500 BOUNDARY CREEK NEAR PORTHILL, ID

(International gaging station)

LOCATION.--Lat 48°59'50", long 116°34'05", in SW¼NW¼SW¼ sec.11, T.65 N., R.2 W., Boundary County, Hydrologic Unit 17010104, on left bank near mouth of canyon, 0.2 mi south of international boundary, 3 mi west of Porthill, and at mile 3.5.

DRAINAGE AREA.--97 mi^2, approximately.

PERIOD OF RECORD.--May 1928 to current year (no winter records 1929, 1930).

GAGE.--Water-stage recorder. Elevation of gage is 1,770 ft above sea level, from topographic map. Prior to Apr. 24, 1929, nonrecording gage at site 140 ft upstream at different datum. Prior to Jan. 1, 1998, at datum 10.00 ft lower.

REMARKS.--Records fair except for estimated daily discharges and discharges over 1,500 ft^3/s, which are poor. Diversion upstream from station was used during the year.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,780 ft^3/s June 1, 1997 (from rating curve extended above 2,000 ft^3/s), gage height, 5.88 ft; minimum discharge, 5.0 ft^3/s occurred sometime between Nov. 10 and Dec. 3, 1936.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	2000	*1,860	*14.11	May 3	2330	1,450	13.55
				May 22	2200	1,640	13.81

Minimum daily, 26 ft^3/s Aug. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	88	196	e85	e46	62	103	666	730	216	47	27
2	31	72	183	85	e55	62	137	931	752	192	45	29
3	30	67	159	e70	e50	63	144	1150	901	175	43	34
4	30	71	e110	e75	e46	78	184	1130	903	175	42	36
5	30	51	e110	80	e46	89	215	830	945	169	41	35
6	30	73	e110	76	e50	84	184	717	955	159	40	31
7	31	79	e120	76	51	77	164	632	893	164	39	31
8	121	73	136	75	58	71	160	596	819	144	37	33
9	123	84	135	74	68	71	185	632	820	185	36	52
10	63	293	132	e70	62	68	242	666	685	189	35	68
11	53	462	128	e65	e55	68	311	583	590	149	34	54
12	60	1150	130	e65	e55	67	413	544	799	133	33	41
13	63	1170	125	e65	e50	66	480	555	884	122	33	37
14	54	773	120	e65	e48	68	464	565	788	113	32	34
15	49	540	117	e65	e48	65	398	613	774	106	31	31
16	44	425	129	65	e50	67	399	759	634	100	31	30
17	46	391	129	65	e46	65	457	959	587	95	30	29
18	44	343	124	e55	e46	64	511	1200	603	88	30	28
19	42	291	e90	e46	e44	64	553	1170	570	83	29	28
20	41	278	e80	e46	e42	57	653	1180	490	78	32	28
21	40	245	e80	e48	e46	64	701	1390	466	74	31	49
22	39	221	e80	e50	e55	61	802	1460	469	71	29	41
23	39	209	e80	e50	76	89	751	1300	417	67	29	33
24	37	201	e90	e50	75	86	625	1150	387	66	28	33
25	37	194	96	e55	67	79	526	1080	335	62	28	33
26	53	181	e75	e55	65	75	463	981	302	58	27	33
27	47	164	e65	56	64	80	475	979	280	56	27	31
28	74	160	e70	55	63	94	782	1060	258	54	27	30
29	130	151	e75	55	62	90	673	952	261	52	26	30
30	98	201	e80	e50	---	88	600	870	231	50	27	62
31	111	---	e80	e48	---	89	---	819	---	49	27	---
TOTAL	1721	8701	3434	1940	1589	2271	12755	28119	18528	3494	1026	1091
MEAN	55.5	290	111	62.6	54.8	73.3	425	907	618	113	33.1	36.4
MAX	130	1170	196	85	76	94	802	1460	955	216	47	68
MIN	30	51	65	46	42	57	103	544	231	49	26	27
AC-FT	3410	17260	6810	3850	3150	4500	25300	55770	36750	6930	2040	2160
CFSM	.57	2.99	1.14	.65	.56	.76	4.38	9.35	6.37	1.16	.34	.37
IN.	.66	3.34	1.32	.74	.61	.87	4.89	10.78	7.11	1.34	.39	.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY)

MEAN	56.4	109	75.4	52.3	70.3	106	431	904	598	154	50.7	41.0
MAX	222	290	260	84.7	201	213	611	1163	1127	453	96.1	145
(WY)	1998	2000	1996	1996	1996	1995	1990	1997	1999	1999	1999	1997
MIN	23.3	25.6	30.2	26.0	22.7	48.0	237	575	160	65.7	25.4	20.4
(WY)	1988	1988	1995	1988	1994	1989	1995	1992	1992	1988	1988	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1988 - 2000	
ANNUAL TOTAL	111502		84669			
ANNUAL MEAN	305		231		221	
HIGHEST ANNUAL MEAN					324	1996
LOWEST ANNUAL MEAN					139	1992
HIGHEST DAILY MEAN	2120	May 25	1460	May 22	2570	Jun 1 1997
LOWEST DAILY MEAN	30	Oct 3	26	Aug 29	13	Nov 29 1987
ANNUAL SEVEN-DAY MINIMUM	30	Oct 1	27	Aug 26	15	Sep 4 1988
ANNUAL RUNOFF (AC-FT)	221200		167900		160200	
ANNUAL RUNOFF (CFSM)	3.15		2.38		2.28	
ANNUAL RUNOFF (INCHES)	42.76		32.47		30.97	
10 PERCENT EXCEEDS	934		754		684	
50 PERCENT EXCEEDS	111		76		68	
90 PERCENT EXCEEDS	42		32		26	

e Estimated

KOOTENAI RIVER BASIN

12322000 KOOTENAI RIVER AT PORTHILL, ID
(International gaging station)

LOCATION.--Lat 48°59'47", long 116°30'22", in SE¼NE¼SE¼ sec.7, T.65 N., R.1 W., Boundary County, Hydrologic Unit 17010104, on right bank 1,200 ft south of international boundary at Porthill, and at mile 105.8.

DRAINAGE AREA.--13,700 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to July 1904 and October 1927 to March 1928 (elevations only), and April 1928 to current year in reports of Geological Survey. October 1924 to September 1927 (gage heights only) in reports of Water Survey of Canada, Department of Environment.

REVISED RECORDS.--SWD ID 1971-75(m).

GAGE.--Water-stage recorder. Datum of gage is 1,700.00 ft above Topographic Division Datum of 1928. Gage readings have been reduced to that datum. Sea level and datum of Geodetic Survey of Canada are 0.03 ft higher. Prior to May 17, 1928, nonrecording gages at approximately same site. Datum of gages prior to July 28, 1928, 38.34 ft higher, except in 1904 when different datum was used. Prior to March 27, 1996, at site 1,500 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records fair. Daily discharge represents entire flow passing international boundary, and is computed by adding tributary inflow for intervening area to flow at station near Copeland and correcting for channel storage between stations near Copeland and at Porthill. Since October 1989 the USGS Branch model has been used for this computation. Boundary dike of Reclamation Farm and U.S. Forest Service roadway dike (south side of Boundary Creek) remained intact and flow of river was confined throughout year to main channel on which gage is located. Elevations affected by backwater from Kootenay Lake. No drainage dike failed during year. Flow regulated by Libby Dam started on Mar. 21, 1972.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge (1929-71), 125,000 ft^3/s June 1, 1948; maximum elevation, 1,767.61 ft, June 7, 1961; minimum daily discharge, 1,380 ft^3/s Feb. 8, 1936; minimum elevation, 1,738.21 ft, Apr. 3, 1944. Maximum discharge since regulation (1972-2000), 60,200 ft^3/s June 1, 1972, maximum elevation, 1,758.84 ft, June 2, 1972; minimum daily, 2,610 ft Jan. 9, 1973.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 1,772.7 ft in June 1894, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 36,400 ft^3/s June 15; maximum elevation, 1,750.84 ft, June 29; minimum daily, 7,030 ft^3/s Sept. 30; minimum elevation, 1,739.93 ft, Apr. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13000	14200	29400	25500	21500	12000	9140	17500	15700	16600	9400	8800
2	13000	14100	29400	21400	18600	11100	9790	19600	15100	14200	9260	8890
3	13000	13800	25700	21600	21800	10600	10500	23600	15200	13200	9290	8770
4	13000	13700	26100	26800	22000	10700	11100	25300	15200	12200	9320	8990
5	13000	12900	28800	27700	22200	11600	12800	23700	15600	12100	9360	8840
6	13000	11500	29300	27700	20000	12300	13900	21200	15900	11800	9260	8850
7	13000	10700	29400	27800	19600	12200	13100	19000	16700	11700	9280	8960
8	13100	10000	29300	27600	21500	12100	12100	17400	17700	11400	9250	8800
9	14100	9810	29200	27600	21400	11800	11600	16600	18700	11500	9280	9020
10	14100	10300	29000	27700	18500	11800	12100	17100	18900	11500	9140	9030
11	13500	11300	29400	27600	18300	11600	13300	16700	17700	11100	9210	9190
12	12500	13400	29600	27500	18100	11000	15000	15500	22500	10800	9080	8970
13	11600	19900	30300	27400	14400	10100	17200	14900	35000	10700	8990	8950
14	11300	22800	30200	27600	14800	9130	19200	14500	36000	10600	9030	8940
15	12500	19000	30200	27500	21000	8140	18500	14400	36400	10400	9110	8840
16	13500	17100	29700	27500	21200	7960	17400	15000	36000	10500	9200	8870
17	13500	22000	30400	27200	20400	7700	17000	16800	34400	10400	8990	8810
18	13400	22100	28800	27200	18300	7640	17600	19300	33600	10300	8990	8620
19	13400	21500	24600	26800	17500	7620	18400	21100	33400	10100	8690	8780
20	13300	21400	24100	26500	14000	7820	19800	21600	32700	9890	8950	8730
21	13200	20900	28700	26500	14200	7640	21300	22700	32200	9630	8870	8930
22	13200	20700	29300	26600	20300	7570	22700	25400	32200	9870	8880	8820
23	13000	26700	27700	26400	21000	7800	24000	26600	31700	9610	8890	8660
24	13000	28700	22500	26200	21200	8380	22400	24400	31100	9650	9020	7900
25	12700	29000	18600	26300	21400	8450	19800	22200	30700	9710	8900	7330
26	12400	29300	17800	26300	20400	8360	17600	20600	30400	9660	8820	7130
27	13200	29500	19200	26200	13400	8400	16200	19100	30100	9470	8960	7180
28	13400	29300	27100	24800	12800	8620	16800	19000	29900	9450	9020	7090
29	14200	29200	27900	22400	13300	9170	18300	18400	29200	9330	8880	7060
30	14300	29200	28100	21000	---	9230	17700	17300	21100	9340	8970	7030
31	14100	---	28100	20900	---	9140	---	16600	---	9240	8830	---
TOTAL	407500	584010	847900	807800	543100	297670	486330	603100	781000	335950	281120	254780
MEAN	13150	19470	27350	26060	18730	9602	16210	19450	26030	10840	9068	8493
MAX	14300	29500	30400	27800	22200	12300	24000	26600	36400	16600	9400	9190
MIN	11300	9810	17800	20900	12800	7570	9140	14400	15100	9240	8690	7030
AC-FT	808300	1158000	1682000	1602000	1077000	590400	964600	1196000	1549000	666400	557600	505400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1971, BY WATER YEAR (WY) (UNREGULATED)

MEAN	7059	6449	5570	4680	5099	5847	17750	45810	51730	25120	10470	7285
MAX	18310	13100	15880	13890	14130	12500	48000	67760	86560	53430	18020	17640
(WY)	1948	1934	1934	1934	1951	1934	1934	1956	1967	1954	1954	1959
MIN	3750	2917	2884	2099	2192	2996	5518	21750	22810	10150	6469	4945
(WY)	1937	1937	1945	1937	1936	1937	1945	1944	1941	1944	1941	1936

SUMMARY STATISTICS	[a] WATER YEARS 1929 - 1971	
ANNUAL MEAN	16100	
HIGHEST ANNUAL MEAN	22430	1956
LOWEST ANNUAL MEAN	8205	1944
HIGHEST DAILY MEAN	125000	Jun 1 1948
LOWEST DAILY MEAN	1380	Feb 8 1936
ANNUAL SEVEN-DAY MINIMUM	1520	Jan 3 1937
ANNUAL RUNOFF (AC-FT	11670000	
10 PERCENT EXCEEDS	44300	
50 PERCENT EXCEEDS	7490	
90 PERCENT EXCEEDS	3690	

KOOTENAI RIVER BASIN

12322000 KOOTENAI RIVER AT PORTHILL, ID--Continued
(International gaging station)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2000, BY WATER YEAR (WY) (REGULATED, UNADJUSTED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	15450	18010	17420	16820	14050	10480	14310	23030	22100	13810	11760	11570
MAX	32350	27050	32450	29770	25230	16670	29930	44060	48640	30780	20090	20690
(WY)	1973	1992	1996	1996	1991	1990	1996	1997	1972	1981	1976	1972
MIN	5844	5165	3639	3371	4315	4940	7433	11530	6717	4696	4220	5782
(WY)	1972	1972	1972	1972	1973	1985	1973	1977	1977	1988	1975	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		[b] WATER YEARS 1972 - 2000	
ANNUAL TOTAL	7014560		6230260			
ANNUAL MEAN	19220		17020		15740	
HIGHEST ANNUAL MEAN					24140	1996
LOWEST ANNUAL MEAN					11750	1993
HIGHEST DAILY MEAN	49400	Jun 18	36400	Jun 15	61400	May 14 1997
LOWEST DAILY MEAN	7120	Mar 14	7030	Sep 30	2610	Jan 9 1973
ANNUAL SEVEN-DAY MINIMUM	7460	Mar 13	7250	Sep 24	2760	Jan 7 1973
ANNUAL RUNOFF (AC-FT)	13910000		12360000		11400000	
10 PERCENT EXCEEDS	29400		29100		26800	
50 PERCENT EXCEEDS	17900		14400		14400	
90 PERCENT EXCEEDS	10400		8860		5660	

a Unregulated.
b Regulated, unadjusted.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45.97	46.26	47.95	47.40	46.01	43.00	39.96	44.56	46.09	49.59	45.52	44.32
2	45.97	46.31	47.95	46.86	45.58	42.74	39.98	44.95	45.92	49.23	45.52	44.39
3	45.98	46.19	47.63	46.76	45.89	42.53	40.07	45.74	45.87	48.89	45.52	44.43
4	46.01	46.11	47.36	47.39	45.85	42.53	40.18	46.37	45.88	48.49	45.51	44.56
5	45.97	46.00	47.76	47.66	45.84	42.64	40.49	46.28	45.98	48.21	45.44	44.65
6	45.94	45.89	47.82	47.67	45.53	42.65	40.73	45.94	46.17	47.93	45.34	44.72
7	45.86	45.82	47.90	47.65	45.39	42.63	40.66	45.60	46.41	47.62	45.27	44.71
8	45.90	45.72	47.89	47.66	45.60	42.56	40.51	45.28	46.68	47.41	45.15	44.72
9	45.98	45.71	47.88	47.64	45.62	42.49	40.46	45.05	46.81	47.29	44.98	44.83
10	45.94	45.83	47.85	47.65	45.23	42.40	40.56	44.99	46.90	47.14	44.88	44.94
11	45.85	45.99	47.91	47.64	45.12	42.31	40.83	44.87	46.76	46.96	44.65	45.03
12	45.67	46.57	47.95	47.61	45.02	42.17	41.24	44.62	47.26	46.82	44.49	45.13
13	45.42	48.11	48.07	47.61	44.48	42.00	41.75	44.42	49.04	46.71	44.39	45.26
14	45.29	48.51	48.08	47.60	44.33	41.84	42.23	44.27	49.47	46.53	44.31	45.32
15	45.23	47.77	48.10	47.56	45.02	41.66	42.43	44.13	49.93	46.42	44.16	45.39
16	45.17	47.22	48.07	47.50	45.08	41.51	42.42	44.16	50.08	46.27	44.01	45.48
17	45.08	47.50	48.15	47.39	44.95	41.36	42.50	44.39	50.05	46.10	43.93	45.54
18	45.02	47.36	48.14	47.33	44.63	41.22	42.79	44.92	50.13	45.85	43.89	45.65
19	44.93	47.06	47.51	47.25	44.47	41.16	43.10	45.45	50.36	45.67	43.94	45.75
20	44.92	46.94	47.26	47.15	43.94	41.02	43.56	45.75	50.43	45.57	44.01	45.78
21	44.96	46.84	47.75	47.10	43.82	40.85	44.04	46.20	50.46	45.64	44.08	45.83
22	45.01	46.69	47.90	47.07	44.52	40.68	44.50	47.03	50.59	45.67	44.11	45.90
23	45.07	47.22	47.74	46.97	44.67	40.60	44.98	47.57	50.70	45.56	44.17	45.91
24	45.14	47.64	47.02	46.86	44.75	40.52	44.89	47.37	50.73	45.64	44.27	45.88
25	45.23	47.78	46.40	46.80	44.74	40.42	44.61	47.15	50.75	45.60	44.30	45.85
26	45.33	47.92	46.18	46.78	44.61	40.30	44.30	46.99	50.75	45.47	44.32	45.84
27	45.47	47.93	46.13	46.79	43.64	40.17	44.06	46.80	50.74	45.41	44.35	45.83
28	45.57	47.92	47.02	46.67	43.37	40.11	44.19	46.85	50.76	45.37	44.24	45.78
29	45.74	47.88	47.41	46.29	43.32	40.12	44.60	46.73	50.78	45.41	44.19	45.76
30	45.87	47.90	47.50	46.00	---	40.08	44.56	46.53	50.08	45.44	44.26	45.79
31	46.06	---	47.56	45.86	---	40.00	---	46.35	---	45.49	44.29	---
MEAN	45.53	46.95	47.61	47.17	44.86	41.49	42.37	45.72	48.75	46.63	44.56	45.30
MAX	46.06	48.51	48.15	47.67	46.01	43.00	44.98	47.57	50.78	49.59	45.52	45.91
MIN	44.92	45.71	46.13	45.86	43.32	40.00	39.96	44.13	45.87	45.37	43.89	44.32

CAL YR 1999 MEAN 46.27 MAX 53.98 MIN 39.83
WTR YR 2000 MEAN 45.58 MAX 50.78 MIN 39.96

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949-50, 1963 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1983 to September 1991 (discontinued).
WATER TEMPERATURE: Jaunuary 1949 to September 1950, May 1963 to current year.
SUSPENDED SEDIMENT DISCHARGE: October 1983 to September 1991 (discontinued).

INSTRUMENTATION.--Water temperature recorder since May 23, 1963.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 23.5 °C July 27, 1975, July 29-31, 1988; minimum, 0.0 °C many days during winter months.
SEDIMENT CONCENTRATIONS: Maximum, 60 mg/L Nov. 27, 1986; minimum, 1 mg/L Dec. 28-29, 1985, Dec. 18, 1986.
SEDIMENT LOADS: Maximum, 3220 tons Nov. 25, 1986; minimum, 11 tons July 25-26, Aug. 5, 23, 1988.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE: Maximum, 19.5 °C Aug. 3, 6; minimum, 2.2 °C Feb. 22.

REMARKS.-- Missing data due to equipment malfunciton.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	11.3	10.9	11.1	9.5	9.3	9.4	7.9	7.9	7.9	5.7	5.7	5.7
2	11.9	11.2	11.6	9.3	9.2	9.2	8.1	7.9	8.0	5.7	5.5	5.6
3	11.8	11.3	11.6	9.2	8.4	8.9	7.9	7.7	7.9	5.5	4.4	5.4
4	11.8	11.3	11.5	8.4	7.9	8.2	7.7	7.4	7.6	5.4	5.4	5.4
5	11.8	11.5	11.6	8.1	7.9	7.9	7.4	6.9	7.1	5.5	5.2	5.3
6	11.8	11.3	11.6	8.1	7.9	8.0	7.1	6.9	7.0	5.5	5.4	5.5
7	11.8	11.5	11.7	8.4	8.1	8.3	7.3	6.9	7.1	5.5	5.5	5.5
8	12.3	11.6	12.0	8.2	7.9	8.1	7.3	7.3	7.3	5.7	5.5	5.6
9	12.6	12.1	12.4	7.9	7.8	7.8	7.3	7.1	7.2	5.7	5.5	5.7
10	12.4	12.3	12.4	8.2	7.9	8.1	7.1	6.9	7.0	5.5	5.2	5.3
11	12.4	12.1	12.3	8.5	8.2	8.4	6.9	6.9	6.9	5.2	4.8	5.0
12	12.1	11.6	12.0	8.5	8.4	8.5	7.3	6.9	7.1	4.9	4.8	4.8
13	11.8	11.5	11.6	8.9	8.2	8.5	7.1	7.1	7.1	4.8	4.8	4.8
14	11.6	11.3	11.5	9.0	8.9	8.9	7.1	6.8	6.9	4.9	4.8	4.9
15	11.6	11.3	11.5	9.0	8.5	8.9	6.8	6.5	6.6	4.9	4.8	4.9
16	11.8	11.3	11.6	8.5	8.4	8.4	6.8	6.5	6.6	4.9	4.6	4.8
17	11.5	10.6	11.1	8.4	8.1	8.3	6.9	6.6	6.8	4.8	4.6	4.8
18	10.6	10.2	10.5	8.4	8.1	8.2	6.9	6.6	6.9	4.6	4.4	4.4
19	10.4	10.2	10.3	8.5	8.4	8.4	6.6	6.3	6.5	4.6	4.1	4.4
20	10.4	10.2	10.4	8.5	8.2	8.4	6.3	6.0	6.2	4.1	4.0	4.0
21	10.4	10.2	10.3	8.2	7.8	8.1	6.0	5.7	5.8	4.1	4.0	4.0
22	10.4	10.2	10.3	8.1	7.8	8.0	6.3	5.9	6.1	4.4	4.0	4.2
23	10.6	10.2	10.5	7.9	7.6	7.8	6.5	6.3	6.3	4.6	4.3	4.4
24	10.6	10.4	10.5	7.9	7.6	7.8	6.3	6.3	6.3	4.6	4.3	4.4
25	10.6	10.1	10.4	8.1	7.9	8.0	6.3	6.0	6.1	4.3	4.0	4.1
26	10.4	10.1	10.2	8.2	8.1	8.1	6.0	5.5	5.9	4.1	4.0	4.0
27	10.2	9.9	10.1	8.1	7.9	8.1	5.5	5.4	5.4	4.3	4.1	4.2
28	9.9	9.8	9.9	7.9	7.8	7.9	5.4	5.2	5.2	4.6	4.3	4.4
29	9.9	9.8	9.9	7.9	7.8	7.9	5.9	5.2	5.6	4.6	4.4	4.4
30	10.1	9.9	10.0	8.1	7.9	8.0	5.9	5.9	5.9	4.4	4.1	4.3
31	9.9	9.3	9.6	---	---	---	5.9	5.7	5.7	4.1	3.8	3.9
MONTH	12.6	9.3	11.0	9.5	7.6	8.3	8.1	5.2	6.6	5.7	3.8	4.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	3.8	3.4	3.6	3.7	3.5	3.6	6.5	6.3	6.5	---	---	---
2	3.7	3.4	3.5	3.8	3.7	3.8	6.5	6.0	6.2	---	---	---
3	3.8	3.7	3.8	4.0	3.7	3.8	6.8	6.2	6.6	---	---	---
4	4.1	3.8	4.0	4.1	3.8	3.9	7.4	6.8	7.1	---	---	---
5	4.0	3.8	3.9	4.1	3.8	4.0	7.3	6.6	7.0	---	---	---
6	3.8	3.5	3.7	4.3	4.0	4.1	6.6	6.5	6.5	---	---	---
7	4.0	3.7	3.9	4.4	4.0	4.1	6.5	5.7	6.1	---	---	---
8	4.1	4.0	4.1	4.0	3.8	3.9	5.9	5.4	5.6	---	---	---
9	4.1	4.1	4.1	4.0	3.7	3.8	6.0	5.7	5.9	---	---	---
10	4.1	4.0	4.0	4.1	3.8	4.0	6.5	6.0	6.3	---	---	---
11	4.0	3.7	3.9	4.3	3.8	4.0	7.1	6.5	6.8	---	---	---
12	3.7	3.0	3.4	4.3	3.8	4.0	7.9	7.1	7.5	---	---	---
13	3.2	2.9	3.0	4.4	4.1	4.3	7.9	7.4	7.5	---	---	---
14	2.9	2.7	2.8	4.4	4.0	4.2	7.4	6.5	6.9	---	---	---
15	3.0	2.7	2.8	4.4	4.0	4.2	6.5	5.1	5.7	---	---	---
16	2.7	2.6	2.6	4.6	4.4	4.5	5.1	3.8	4.2	---	---	---
17	2.7	2.6	2.6	4.9	4.4	4.6	5.1	3.8	4.5	---	---	---
18	2.7	2.6	2.6	4.4	4.3	4.4	6.3	5.1	5.6	---	---	---
19	2.6	2.4	2.5	4.6	4.1	4.3	---	---	---	---	---	---
20	2.7	2.4	2.5	4.4	4.1	4.3	---	---	---	---	---	---
21	2.6	2.4	2.5	4.3	4.1	4.2	---	---	---	---	---	---
22	2.7	2.2	2.4	4.3	4.1	4.2	---	---	---	---	---	---
23	3.2	2.6	2.9	4.8	4.3	4.5	---	---	---	---	---	---
24	3.5	3.2	3.3	4.9	4.4	4.7	---	---	---	---	---	---
25	3.5	3.4	3.4	4.9	4.6	4.7	---	---	---	---	---	---
26	3.4	3.2	3.2	5.5	4.6	5.1	---	---	---	---	---	---
27	3.2	3.0	3.2	6.0	5.5	5.7	---	---	---	---	---	---
28	3.4	3.0	3.2	6.2	5.7	5.9	---	---	---	---	---	---
29	3.5	3.4	3.4	5.9	5.7	5.8	---	---	---	---	---	---
30	---	---	---	6.2	5.7	6.0	---	---	---	---	---	---
31	---	---	---	6.6	6.2	6.4	---	---	---	---	---	---
MONTH	4.1	2.2	3.3	6.6	3.5	4.5	---	---	---	---	---	---

KOOTENAI RIVER BASIN

12322000 KOOTENAI RIVER AT PORTHILL, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	15.3	14.8	15.1	18.8	18.0	18.5	14.9	14.5	14.6
2	---	---	---	16.3	15.3	15.7	19.3	18.3	18.8	14.5	14.2	14.4
3	---	---	---	16.3	15.6	16.1	19.5	18.5	19.0	15.2	14.2	14.8
4	---	---	---	15.9	15.6	15.8	19.3	18.7	18.9	15.6	15.0	15.3
5	---	---	---	15.6	15.0	15.3	19.3	18.5	18.9	15.5	15.2	15.3
6	---	---	---	15.5	14.7	14.9	19.5	18.8	19.2	15.3	14.9	15.1
7	---	---	---	14.7	13.7	14.0	19.3	18.7	18.9	15.0	14.7	14.9
8	---	---	---	13.9	13.6	13.7	19.1	18.5	18.8	14.7	14.2	14.4
9	---	---	---	14.8	13.9	14.3	19.1	18.3	18.8	14.2	13.8	14.0
10	---	---	---	15.0	14.5	14.8	19.3	18.7	19.0	14.2	13.8	14.0
11	---	---	---	15.9	15.0	15.6	19.3	18.8	19.1	14.5	13.9	14.3
12	---	---	---	16.1	15.9	16.0	19.1	18.5	18.8	14.4	13.8	14.2
13	---	---	---	16.6	16.1	16.3	19.0	18.3	18.6	13.8	13.0	13.4
14	---	---	---	17.0	16.6	16.7	18.7	18.0	18.3	13.5	12.8	13.2
15	---	---	---	18.0	17.0	17.7	18.0	17.4	17.8	14.1	13.3	13.7
16	---	---	---	18.3	17.7	18.1	17.4	16.9	17.1	14.5	13.8	14.1
17	---	---	---	18.3	17.9	18.2	17.5	16.7	17.1	15.3	14.2	14.7
18	---	---	---	18.0	17.7	17.9	17.2	16.7	17.0	15.8	15.2	15.5
19	---	---	---	18.0	17.5	17.8	17.0	16.6	16.8	15.8	15.5	15.6
20	---	---	---	18.2	17.5	17.9	17.0	16.4	16.7	15.8	15.3	15.5
21	---	---	---	18.3	17.7	18.1	17.4	16.4	16.8	15.8	15.5	15.6
22	---	---	---	18.8	17.9	18.3	17.5	16.9	17.2	15.5	14.5	14.9
23	13.3	12.3	12.8	18.5	18.0	18.3	17.4	16.7	17.0	14.5	13.5	13.9
24	13.6	13.0	13.3	18.8	18.0	18.3	16.7	16.1	16.5	13.5	12.4	12.8
25	13.3	12.7	12.9	18.3	17.7	18.0	16.6	15.9	16.3	12.4	11.8	12.1
26	12.8	12.3	12.6	17.9	17.4	17.6	16.4	15.8	16.1	11.8	11.3	11.6
27	13.9	12.7	13.3	17.9	17.4	17.6	16.4	15.6	16.0	11.9	11.3	11.6
28	13.9	13.4	13.6	18.5	17.5	18.1	16.3	15.8	15.9	12.5	11.8	12.1
29	14.7	13.6	14.1	18.8	17.9	18.3	16.1	15.6	15.9	12.7	12.2	12.4
30	14.8	14.0	14.4	18.7	18.0	18.4	16.6	15.8	16.1	12.8	12.7	12.7
31	---	---	---	18.7	18.0	18.3	15.8	14.9	15.5	---	---	---
MONTH	---	---	---	18.8	13.6	16.8	19.5	14.9	17.6	15.8	11.3	14.0

KOOTENAI RIVER BASIN

12322500 KOOTENAY LAKE AT KUSKONOOK, BRITISH COLUMBIA
(International gaging station)

LOCATION.--Lat 49°17'56", long 116°39'31", on east shore of Kootenay Lake at Kuskonook, British Columbia, and at mile 74.5.

PERIOD OF RECORD.--May 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,735.20 ft above sea level, which is the same at Porthill as datum of 1929, supplementary adjustment of 1947, and 0.03 ft higher than datum in use at station Kootenai River at Porthill. Prior to April 25, 1938, nonrecording gages at same site at datum 3.00 ft higher. Add 1,700 ft to published gage heights to obtain sea level.

REMARKS.--Elevation is subject to partial regulation by Corra Linn Dam on Kootenay River below outlet. Major inflow is from Kootenai River (see sta 12322000). Diversions for irrigation of about 14,600 acres above Kootenay Lake.

COOPERATION.--This station is maintained by Canada under agreement with the United States.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation 1,762.42 ft, June 9, 1961; minimum daily 1,737.86 ft, April 5, 6, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum elevation 1,748.84 ft, June 30; minimum, 1,739.11 ft, Apr. 3.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45.15	45.37	e45.37	45.16	44.18	42.15	39.20	42.88	44.89	48.68	45.07	43.89
2	45.16	45.42	e45.35	45.22	44.10	41.95	39.13	42.95	44.76	48.51	45.10	43.95
3	45.17	45.34	e45.31	45.18	44.01	41.79	39.11	43.14	44.68	48.25	45.08	44.00
4	45.20	45.24	e45.26	45.22	43.94	41.76	39.13	43.46	44.65	47.91	45.06	44.09
5	45.16	45.20	e45.22	45.30	43.90	41.75	39.15	43.70	44.69	47.62	44.99	44.21
6	45.11	45.19	e45.24	45.33	43.85	41.69	39.24	43.82	44.86	47.33	44.88	44.26
7	45.08	45.19	e45.29	45.30	43.79	41.67	39.30	43.80	45.03	47.04	44.80	44.27
8	45.10	45.18	e45.30	45.32	43.76	41.62	39.33	43.73	45.16	46.80	44.70	44.32
9	45.07	45.20	e45.31	45.32	43.75	41.56	39.36	43.61	45.25	46.68	44.57	44.40
10	45.04	45.28	e45.31	45.33	43.73	41.49	39.38	43.52	45.35	46.53	44.42	44.50
11	45.00	45.41	e45.33	45.32	43.65	41.41	39.45	43.43	45.39	46.38	44.20	44.59
12	44.86	45.70	e45.35	45.29	43.55	41.36	39.57	43.31	45.41	46.28	44.04	44.69
13	44.71	46.08	e45.34	45.30	43.41	41.28	39.71	43.19	45.56	46.18	43.93	44.82
14	44.57	46.25	e45.34	45.30	43.24	41.21	39.93	43.07	45.86	46.03	43.82	44.88
15	44.45	46.20	e45.36	45.28	43.16	41.12	40.25	42.94	46.28	45.90	43.64	44.98
16	44.31	45.98	e45.41	45.18	43.15	40.99	40.47	42.85	46.63	45.73	43.50	45.06
17	44.21	45.76	e45.40	45.10	43.12	40.87	40.69	42.83	46.89	45.57	43.47	45.13
18	44.13	45.57	e45.48	45.06	43.06	40.74	40.90	42.94	47.16	45.34	43.45	45.23
19	44.04	45.39	e45.46	45.02	42.99	40.63	41.12	43.15	47.47	45.15	43.49	45.32
20	44.05	e45.26	e45.34	44.91	42.88	40.49	41.36	43.38	47.70	45.08	43.53	45.38
21	44.09	e45.20	e45.25	44.86	42.76	40.33	41.61	43.65	47.85	45.16	43.61	45.43
22	44.18	e45.14	e45.22	44.79	42.71	40.18	41.87	44.06	48.03	45.17	43.64	45.50
23	44.27	e45.12	e45.20	44.72	42.73	40.05	42.16	44.51	48.22	45.12	43.71	45.51
24	44.36	e45.15	e45.15	44.60	42.75	39.91	42.42	44.81	48.38	45.15	43.81	45.52
25	44.45	e45.23	e45.04	44.57	42.71	39.79	42.57	44.99	48.46	45.12	43.88	45.52
26	44.54	e45.28	e44.89	44.54	42.69	39.66	42.62	45.10	48.52	45.03	43.91	45.52
27	44.65	e45.30	e44.75	44.54	42.60	39.56	42.58	45.15	48.57	44.97	43.87	45.51
28	44.79	e45.30	e44.76	44.53	42.44	39.46	42.62	45.17	48.62	44.94	43.77	45.47
29	44.94	e45.29	e44.93	44.48	42.30	39.40	42.75	45.18	48.71	44.95	43.72	45.45
30	45.07	e45.36	e45.05	44.38	---	39.36	42.85	45.12	48.76	44.98	43.79	45.49
31	45.22	---	45.08	44.26	---	39.27	---	45.01	---	45.05	43.84	---
MEAN	44.71	45.42	45.23	44.99	43.27	40.79	40.66	43.82	46.59	46.08	44.11	44.90
MAX	45.22	46.25	45.48	45.33	44.18	42.15	42.85	45.18	48.76	48.68	45.10	45.52
MIN	44.04	45.12	44.75	44.26	42.30	39.27	39.11	42.83	44.65	44.94	43.45	43.89

CAL YR 1999 MEAN 44.63 MAX 50.57 MIN 38.96
WTR YR 2000 MEAN 44.22 MAX 48.76 MIN 39.11

e Estimated

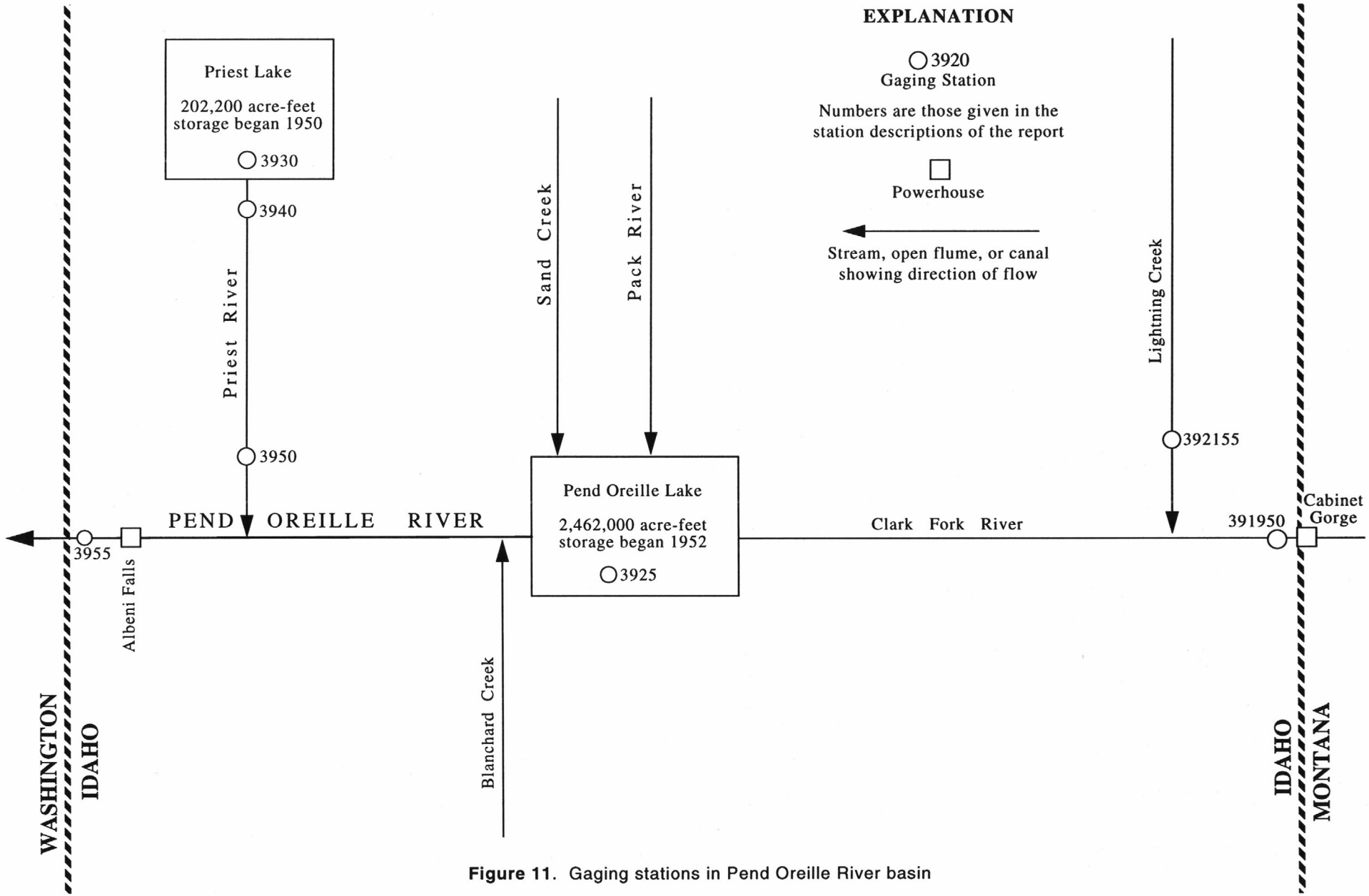


Figure 11. Gaging stations in Pend Oreille River basin

PEND OREILLE RIVER BASIN

12391950 CLARK FORK BELOW CABINET GORGE DAM, NEAR CABINET, ID

LOCATION.--Lat 48°05'18", long 116°04'16", in SW¼SW¼NW¼ sec.27, T.55 N., R.3 E., Cabinet Quad., Bonner County, Hydrologic Unit 17010213, on right bank 0.7 mi downstream from Cabinet Gorge Dam at cableway, 2.1 mi downstream from Blue Creek, 6.1 mi southeast of Clark Fork, and at mile 149.2.

DRAINAGE AREA.--22,067 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,060.00 ft above sea level (levels by Washington Water Power Co). See WSP 1933 for history of changes made prior to Sept. 30, 1952. Water-stage recorder at site 0.4 mi upstream at datum 60.00 ft lower Oct. 1, 1952, to Sept. 30, 1964, and at present datum Oct. 1, 1964, to May 21, 1973.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Hungry Horse Reservoir, Flathead Lake, and Noxon Rapids Reservoir. Extreme diurnal fluctuation caused by powerplant at Cabinet Gorge Dam. Diversions above station for irrigation of about 354,000 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 134,000 ft^3/s May 18, 1997, gage height, 29.14 ft; miminum daily, 3,330 ft^3/s Feb. 8, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 62,400 ft^3/s May 23, gage height, 19.25 ft; minimum daily, 5,450 ft^3/s Sept. 9, 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8830	15300	23200	13700	12600	14300	16700	38300	42400	21900	12100	7140
2	9730	12500	21600	13500	12000	14400	12700	39700	36800	18100	15200	8370
3	9720	11300	23100	17700	18500	13400	18100	44100	34500	20800	17200	7660
4	7870	17800	17100	21700	12400	12000	14300	43000	31100	22700	15100	6620
5	7660	13400	12700	21600	6470	13500	20200	46300	30800	28000	8220	7220
6	7490	7580	19500	20200	10000	15400	20800	46600	34200	28800	13200	7480
7	7110	15800	20900	17300	11100	14200	18800	50500	34600	27600	11100	9900
8	7750	16000	19900	13800	15200	17600	13300	42800	34200	23400	10500	9010
9	9110	20800	20500	13500	11300	16500	16100	39000	34600	18500	15100	5450
10	7200	16300	23300	21300	14600	15100	19900	40900	34800	24500	10100	8940
11	7220	16600	18000	19800	14900	8090	22300	38700	34700	23300	7820	9260
12	7950	18700	16900	17400	7000	13100	21500	34900	34600	24200	6600	9870
13	8330	12700	20100	17400	11200	14200	24900	27500	33800	22600	9090	9250
14	8780	13200	20200	16100	15300	17000	32000	27700	30800	20600	8430	8220
15	8600	18700	22600	12700	12700	13600	33400	29900	33700	12100	10800	8740
16	7090	17100	22100	9450	13200	18600	33200	34800	40100	19200	11300	6920
17	7300	21300	18200	17500	11800	17700	34300	34800	45900	20400	11100	5520
18	7940	22100	14000	16300	14500	5700	34200	32300	44100	21300	10200	7180
19	8120	15200	17600	15400	8210	13600	33700	34600	44800	18700	6360	5610
20	7970	14300	22800	14600	9660	14400	34100	34800	41800	18700	5940	7090
21	10000	19100	23900	13400	11200	14500	34300	33800	41200	17600	8600	6170
22	11100	20100	21600	9570	11200	17700	39300	38500	41200	6560	11300	7770
23	8420	20700	22300	12400	15900	13700	43900	44400	39500	15200	6850	5450
24	7290	20400	16500	16800	15100	14200	42700	44700	36500	14800	10500	9200
25	11700	18200	17200	14400	15100	7560	44800	44100	37100	16100	7770	9420
26	9420	19700	17500	14600	5930	10700	39400	43500	35200	16600	5780	9610
27	16000	19500	19300	15100	11400	14800	40600	34400	35000	13100	5530	7880
28	15800	19300	23400	14800	13300	15300	38100	36900	32500	13700	6320	9320
29	10500	21800	21500	7620	12900	14700	34300	36300	34600	9170	7640	9020
30	10800	21900	19700	5740	---	15200	35300	40100	24300	13300	7770	6300
31	12200	---	14800	13500	---	15400	---	42200	---	13000	8350	---
TOTAL	285000	517380	612000	468880	354670	436150	867200	1200100	1089400	584530	301870	235590
MEAN	9194	17250	19740	15130	12230	14070	28910	38710	36310	18860	9738	7853
MAX	16000	22100	23900	21700	18500	18600	44800	50500	45900	28800	17200	9900
MIN	7090	7580	12700	5740	5930	5700	12700	27500	24300	6560	5530	5450
AC-FT	565300	1026000	1214000	930000	703500	865100	1720000	2380000	2161000	1159000	598800	467300

CAL YR 1999 TOTAL 8005920 MEAN 21930 MAX 71600 MIN 4380 AC-FT 15880000
WTR YR 2000 TOTAL 6952770 MEAN 19000 MAX 50500 MIN 5450 AC-FT 13790000

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1984 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May to July 1998, April to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 22.0 °C August 7-8, 10-11, 2000.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 22.0 °C August 7-8, 10-11.

REMARKS.--Water-quality data previously published as Clark Fork at Whitehorse Rapids near Cabinet, ID (sta. 12392000).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
APR												
04...	0935	30500	192	8.2	10.5	6.0	.6	12.3	106	<1	<1	87
MAY												
09...	0955	34800	147	7.9	16.5	10.2	.7	10.6	102	<1	<1	70
23...	1020	35100	151	8.0	20.0	12.5	--	--	--	--	--	70
24...	0925	35100	151	7.9	18.0	12.0	--	--	--	--	--	73
24...	1045	47000	151	8.0	20.5	12.5	--	--	--	--	--	73
24...	1200	55000	150	8.0	26.0	13.0	--	--	--	--	--	72
25...	0955	35000	148	7.9	13.0	12.0	--	--	--	--	--	72
JUN												
19...	1230	48000	142	7.5	21.0	14.6	.4	10.9	115	<1	<1	64
JUL												
07...	0945	31100	162	8.0	18.0	17.5	.5	11.6	130	K5	K2	77
AUG												
07...	1500	21300	173	8.1	29.0	22.2	.8	--	--	K1	K2	82
31...	0945	5800	183	8.0	21.0	17.8	--	--	--	--	--	87
SEP												
05...	1115	8230	184	8.0	13.0	17.9	<.5	5.4	61	<1	<1	93

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
APR											
04...	24	6.6	--	--	--	--	--	--	--	--	--
MAY											
09...	19	5.1	--	--	--	--	--	--	--	--	--
23...	19	5.2	--	--	--	--	--	--	--	--	--
24...	21	5.4	--	--	--	--	--	--	--	--	--
24...	20	5.4	--	--	--	--	--	--	--	--	--
24...	20	5.3	--	--	--	--	--	--	--	--	--
25...	20	5.3	--	--	--	--	--	--	--	--	--
JUN											
19...	18	4.9	--	--	--	--	--	--	--	--	--
JUL											
07...	21	5.7	--	--	--	--	--	--	--	--	--
AUG											
07...	23	6.2	--	--	--	--	--	--	--	--	--
31...	24	6.6	--	--	--	--	--	--	--	--	--
SEP											
05...	26	7.0	2.4	5	.7	110	.000	88	4.0	1	<.1

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR											
04...	--	.026	<.002	E.06	E.004	.0030	.022	.833	.875	1	82
MAY											
09...	--	.032	.005	.1	E.004	<.001	.016	.770	4	3	282
23...	--	--	--	--	--	--	.010	.695	3	--	--
24...	--	--	--	--	--	--	.013	.760	4	--	--
24...	--	--	--	--	--	--	.006	.636	2	--	--
24...	--	--	--	--	--	--	.003	.681	2	--	--
25...	--	--	--	--	--	--	.021	.765	4	--	--
JUN											
19...	--	.014	.002	.1	.010	<.001	.013	.669	5	3	389
JUL											
07...	--	.010	.002	.1	E.007	.0020	.012	.512	3	1	84
AUG											
07...	--	--	--	--	--	--	.001	.581	.491	47	2700
31...	--	--	--	--	--	--	.008	.616	.469	--	--
SEP											
05...	7.2	.030	.006	E.09	.008	.0020	.006	.743	.392	13	289

E Positive detection but below stated detection limit.
K Results based on counts outside ideal colony range.

12391950 CLARK FORK BELOW CABINET GORGE DAM NEAR CABINET, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, APRIL TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	9.7	9.3	9.5
2	---	---	---	9.7	9.4	9.6
3	---	---	---	9.6	9.4	9.5
4	---	---	---	9.6	9.4	9.5
5	---	---	---	9.7	9.4	9.6
6	---	---	---	9.9	9.7	9.8
7	---	---	---	10.2	9.9	10.1
8	---	---	---	10.4	10.1	10.2
9	---	---	---	10.2	10.1	10.2
10	---	---	---	10.2	9.9	10.0
11	---	---	---	9.9	9.6	9.9
12	---	---	---	9.9	9.6	9.7
13	---	---	---	10.1	9.4	9.8
14	---	---	---	10.4	9.6	10.0
15	---	---	---	10.4	9.6	10.2
16	---	---	---	10.7	10.2	10.5
17	---	---	---	10.8	10.4	10.6
18	---	---	---	10.8	10.4	10.6
19	---	---	---	10.8	10.4	10.6
20	---	---	---	11.0	10.4	10.7
21	---	---	---	11.4	10.8	11.2
22	---	---	---	11.8	11.3	11.6
23	---	---	---	12.2	11.6	12.0
24	---	---	---	12.5	12.2	12.4
25	---	---	---	12.8	12.2	12.6
26	---	---	---	13.0	12.7	12.8
27	9.9	9.6	9.8	12.8	12.7	12.8
28	9.9	9.6	9.8	13.0	12.7	12.8
29	9.6	9.3	9.4	13.0	12.7	12.8
30	9.4	9.3	9.4	13.2	12.8	13.0
31	---	---	---	13.0	12.7	12.8
MONTH	---	---	---	13.2	9.3	10.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	13.0	12.7	12.8	16.8	15.8	16.4	21.0	20.0	20.4	19.2	18.2	18.7
2	13.3	12.8	13.0	17.1	15.6	16.5	21.1	19.7	20.5	19.0	17.6	18.6
3	13.3	12.8	13.1	17.1	15.5	16.5	21.5	20.0	20.8	19.0	17.7	18.5
4	13.5	13.0	13.2	16.6	15.5	16.2	21.5	19.8	20.8	18.7	17.6	18.3
5	13.3	12.7	13.1	16.9	15.3	16.3	21.5	20.3	20.9	18.5	17.9	18.3
6	13.3	12.8	13.1	17.2	15.3	16.8	21.8	20.3	21.1	18.4	17.7	18.1
7	13.8	13.2	13.5	17.4	16.3	17.0	22.0	20.6	21.3	18.4	17.7	18.0
8	13.9	13.5	13.7	17.6	16.1	17.2	22.0	20.6	21.2	18.0	16.8	17.7
9	13.6	13.3	13.5	17.7	16.4	17.3	21.8	20.3	21.2	17.6	17.1	17.4
10	14.1	13.5	13.8	17.7	16.1	17.3	22.0	20.5	21.2	17.6	16.9	17.3
11	14.2	13.9	14.0	17.6	16.3	17.3	22.0	20.5	21.2	17.6	17.1	17.2
12	14.4	13.9	14.1	17.9	16.8	17.5	21.8	20.6	21.3	17.7	16.8	17.2
13	14.5	13.9	14.2	18.0	16.9	17.7	21.8	20.6	21.3	17.7	16.6	17.2
14	14.5	14.2	14.3	18.2	16.9	17.7	21.6	20.0	21.0	18.0	17.1	17.5
15	14.4	13.9	14.2	18.2	17.1	17.6	21.5	20.5	20.9	17.9	17.1	17.6
16	14.5	14.1	14.3	18.4	17.1	17.9	21.3	20.0	20.6	17.9	17.1	17.6
17	14.5	14.2	14.4	18.4	17.2	18.0	21.1	20.0	20.6	17.9	17.4	17.6
18	14.7	14.2	14.4	18.7	17.4	18.2	21.1	20.0	20.5	17.7	17.1	17.4
19	14.5	14.1	14.3	19.0	17.1	18.4	21.0	20.3	20.6	17.6	17.1	17.3
20	14.5	14.1	14.3	19.3	17.9	18.8	21.0	20.1	20.5	17.2	16.8	17.1
21	15.0	14.4	14.7	19.5	18.0	19.0	20.8	20.0	20.4	17.1	16.3	16.7
22	15.3	14.5	14.9	19.5	17.9	19.0	21.1	19.8	20.4	16.6	15.5	16.1
23	15.3	15.0	15.1	19.8	18.8	19.4	20.6	19.7	20.1	15.6	14.7	15.2
24	15.2	14.9	15.1	20.0	18.5	19.3	20.5	19.5	19.9	15.0	14.4	14.7
25	15.5	14.9	15.1	19.8	18.7	19.3	20.5	19.5	20.0	14.7	14.2	14.4
26	15.8	15.3	15.6	20.0	18.7	19.5	20.3	19.5	20.0	14.7	14.2	14.4
27	16.1	15.6	15.9	20.1	19.2	19.7	20.3	19.5	19.9	15.0	14.5	14.7
28	16.3	15.5	16.1	20.6	19.0	19.9	20.1	19.2	19.8	15.3	14.9	15.1
29	16.4	15.8	16.2	20.5	19.2	19.9	20.0	19.0	19.6	15.3	15.0	15.2
30	16.6	15.3	16.1	20.8	18.7	20.2	19.8	19.2	19.4	15.3	15.0	15.3
31	---	---	---	21.1	19.5	20.3	19.3	18.7	19.0	---	---	---
MONTH	16.6	12.7	14.3	21.1	15.3	18.1	22.0	18.7	20.5	19.2	14.2	16.9

PEND OREILLE RIVER BASIN

12392000 CLARK FORK AT WHITEHORSE RAPIDS, NEAR CABINET, ID

LOCATION(Revised).--Lat 48°05'30", long 116°07'00", in NE¼ sec.30, T.55 N., R.3 E., Cabinet Quad., Bonner County, Hydrologic Unit 17010213, on right bank 3.0 mi downstream from Cabinet Gorge Dam, 4.5 mi southeast of Clark Fork, and at mile 146.9.

DRAINAGE AREA.--22,073 mi^2.

PERIOD OF RECORD.--September 1928 to current year. Prior to October 1952, published as "near Heron, Mont."

REVISED RECORDS.--WSP 1182: 1936. WSP 1736: 1931, 1936(m), 1937. WRD-ID-1973-1: 1972(M).

REMARKS.--Flow regulated by Hungry Horse Reservoir, Flathead Lake, and Noxon Rapids Reservoir. Extreme diurnal fluctuation caused by powerplant at Cabinet Gorge Dam. Diversions above station for irrigation of about 354,000 acres. Discharge measurements made at Whitehorse Rapids indicate about 600 ft^3/s ground-water inflow between the measuring cableway for Clark Fork River below Cabinet Gorge Dam (sta 12391950) and Whitehorse Rapids. Records given herein represent flow at Whitehorse Rapids, computed by adding this 600 ft^3/s to observed flows at 12391950, and are considered comparable to records at former site near Heron, except for minor surface inflow from additional drainage area.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 153,000 ft^3/s May 29 to June 1, 1948; maximum gage height, 50.97 ft, May 31, 1948, site and datum then in use; minimum observed, 270 ft^3/s Aug. 12, 1952 (discharge measurement), at sites in use since October 1952, during filling of Cabinet Gorge Reservoir; minimum daily since reservoir filled, 762 ft^3/s Sept. 2, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1894 reached a discharge of 195,000 ft^3/s from floodmark, elevation of 2,137.1 ft, at site about 4 mi upstream and 0.1 mi below "near Heron" site.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 51,100 ft^3/s May 7; minimum daily, 6,050 ft^3/s Sept. 9, 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9430	15900	23800	14300	13200	14900	17300	38900	43000	22500	12700	7740
2	10300	13100	22200	14100	12600	15000	13300	40300	37400	18700	15800	8970
3	10300	11900	23700	18300	19100	14000	18700	44700	35100	21400	17800	8260
4	8470	18400	17700	22300	13000	12600	14900	43600	31700	23300	15700	7220
5	8260	14000	13300	22200	7070	14100	20800	46900	31400	28600	8820	7820
6	8090	8180	20100	20800	10600	16000	21400	47200	34800	29400	13800	8080
7	7710	16400	21500	17900	11700	14800	19400	51100	35200	28200	11700	10500
8	8350	16600	20500	14400	15800	18200	13900	43400	34800	24000	11100	9610
9	9710	21400	21100	14100	11900	17100	16700	39600	35200	19100	15700	6050
10	7800	16900	23900	21900	15200	15700	20500	41500	35400	25100	10700	9540
11	7820	17200	18600	20400	15500	8690	22900	39300	35300	23900	8420	9860
12	8550	19300	17500	18000	7600	13700	22100	35500	35200	24800	7200	10500
13	8930	13300	20700	18000	11800	14800	25500	28100	34400	23200	9690	9850
14	9380	10800	20800	16700	15900	17600	32600	28300	31400	21200	9030	8820
15	9200	19300	23200	13300	13300	14200	34000	30500	34300	12700	11400	9340
16	7690	17700	22700	10000	13800	19200	33800	35400	40700	19800	11900	7520
17	7900	21900	18800	18100	12400	18300	34900	35400	46500	21000	11700	6120
18	8540	22700	14600	16900	15100	6300	34800	32900	44700	21900	10800	7780
19	8720	15800	18200	16000	8810	14200	34300	35200	45400	19300	6960	6210
20	8570	14900	23400	15200	10300	15000	34700	35400	42400	19300	6540	7690
21	10600	19700	24500	14000	11800	15100	34900	34400	41800	18200	9200	6770
22	11700	20700	22200	10200	11800	18300	39900	39100	41800	7160	11900	8370
23	9020	21300	22900	13000	16500	14300	44500	45000	40100	15800	7450	6050
24	7890	21000	17100	17400	15700	14800	43300	45300	37100	15400	11100	9800
25	12300	18800	17800	15000	15700	8160	45400	44700	37700	16700	8370	10000
26	10000	20300	18100	15200	6530	11300	40000	44100	35800	17200	6380	10200
27	16600	20100	19900	15700	12000	15400	41200	35000	35600	13700	6130	8480
28	16400	19900	24000	15400	13900	15900	38700	37500	33100	14300	6920	9920
29	11100	22400	22100	8220	13500	15300	34900	36900	35200	9770	8240	9620
30	11400	22500	20300	6340	---	15800	35900	40700	24900	13900	8370	6900
31	12800	---	15400	14100	---	16000	---	42800	---	13600	8950	---
TOTAL	303530	535380	630600	487460	372110	454750	885200	1218700	1107400	603130	320470	253590
MEAN	9791	17850	20340	15720	12830	14670	29510	39310	36910	19460	10340	8453
MAX	16600	22700	24500	22300	19100	19200	45400	51100	46500	29400	17800	10500
MIN	7690	8180	13300	6340	6530	6300	13300	28100	24900	7160	6130	6050
AC-FT	602100	1062000	1251000	966900	738100	902000	1756000	2417000	2197000	1196000	635700	503000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000, BY WATER YEAR (WY)

MEAN	12040	13320	14480	14480	14980	15960	24990	49560	57410	26570	11720	10640
MAX	25670	21970	34850	28020	38150	36480	59140	93830	115800	57650	19680	18300
(WY)	1960	1996	1996	1934	1996	1996	1934	1997	1948	1950	1997	1985
MIN	5466	5008	4732	3527	4217	5122	6165	16450	15480	9214	6320	5448
(WY)	1937	1937	1937	1937	1936	1937	1977	1941	1977	1940	1994	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1929 - 2000	
ANNUAL TOTAL	8224880		7172320			
ANNUAL MEAN	22530		19600		22180	
HIGHEST ANNUAL MEAN					34250	1996
LOWEST ANNUAL MEAN					10180	1941
HIGHEST DAILY MEAN	72200	Jun 21	51100	May 7	153000	May 30 1948
LOWEST DAILY MEAN	4980	Jan 10	6050	Sep 9	762	Sep 2 1962
ANNUAL SEVEN-DAY MINIMUM	8250	Oct 5	7000	Sep 17	2710	Feb 10 1936
ANNUAL RUNOFF (AC-FT)	16310000		14230000		16070000	
10 PERCENT EXCEEDS	52400		37400		48400	
50 PERCENT EXCEEDS	17600		16200		15800	
90 PERCENT EXCEEDS	8770		8230		7250	

PEND OREILLE RIVER BASIN

12392155 LIGHTNING CREEK AT CLARK FORK, ID

LOCATION.--Lat 48°09'04", long 116°10'56", in NE¼NE¼NE¼ sec.3, T.55 N., R.2 E., Bonner County, Hydrologic Unit 17010213, on left bank, at Clark Fork, 20 ft upstream from Idaho Highway 200 bridge, 1 mi upstream from mouth.

DRAINAGE AREA.--115 mi^2.

PERIOD OF RECORD.--October 1988 to September 1990, June 1991 to current year. Miscellaneous measurements made at this site 1974-78, 1987-88.

GAGE.--Water-stage recorder. Datum of gage is 2,093.66 ft above sea level.

REMARKS.--No estimated daily discharges. Records fair except for discharges above 3,000 ft^3/s, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,970 ft^3/s Feb. 9, 1996; maximum gage height, 10.81 ft, June 1, 1997; minimum daily, 6.1 ft^3/s Sept. 18, 1998.

EXTREMES OUTSIDE PERIOD OF RECORD.-Indirect determination for peak of May 27 or 28, 1948 was 5,100 ft^3/s, 5 mi upstream. Indirect determination for peak of January 1974 was 5,530 ft^3/s, 5 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,790 ft^3/s May 22; minimum, 7.1 ft^3/s Aug. 31 to Sept. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	370	367	148	95	185	302	1370	1310	459	48	7.4
2	10	282	360	140	198	184	355	1960	1320	402	45	7.8
3	9.8	233	322	129	144	199	392	2160	1480	353	41	7.6
4	9.4	304	282	134	126	260	526	2110	1650	363	39	9.0
5	8.8	235	267	126	118	356	773	1650	1870	317	36	11
6	8.4	310	259	115	112	350	658	1390	1890	305	34	12
7	8.0	323	240	114	108	316	536	1230	1850	310	31	12
8	145	290	212	127	117	283	473	1180	1740	292	29	12
9	273	347	199	121	142	259	494	1290	2080	283	28	12
10	97	389	188	110	134	242	633	1320	1510	256	26	69
11	66	522	185	107	130	240	857	1110	1160	239	25	52
12	65	1160	256	103	130	222	1070	945	1820	235	24	30
13	59	2520	315	99	128	205	1270	849	2610	209	23	24
14	53	1310	261	100	124	219	1410	842	1970	191	21	21
15	45	900	304	97	124	199	1170	978	2260	181	20	19
16	40	654	492	97	114	193	1110	1390	1630	156	19	17
17	37	565	435	92	105	184	1150	1780	1480	154	18	15
18	35	485	520	86	107	169	1240	1990	1370	150	17	14
19	32	406	448	81	102	177	1330	1920	1280	139	16	12
20	29	431	375	83	95	155	1350	1920	1090	120	15	12
21	28	376	322	86	103	145	1370	2600	1070	104	14	11
22	26	329	284	80	118	142	1670	3790	1080	95	13	11
23	25	302	254	76	147	403	1520	3120	912	89	12	11
24	24	290	230	72	156	335	1210	2430	773	87	12	11
25	23	442	210	75	148	295	977	2190	691	77	11	10
26	77	462	195	74	144	273	832	1900	663	72	10	9.8
27	66	396	183	71	151	272	848	1700	632	66	9.7	8.9
28	310	333	168	68	177	355	1260	1690	594	61	9.1	8.3
29	525	297	163	67	185	338	1170	1510	571	57	8.7	7.8
30	285	358	154	62	---	315	1100	1440	514	54	7.9	195
31	455	---	151	63	---	299	---	1530	---	52	7.6	---
TOTAL	2885.4	15621	8601	3003	3782	7769	29056	53284	40870	5928	670.0	659.6
MEAN	93.1	521	277	96.9	130	251	969	1719	1362	191	21.6	22.0
MAX	525	2520	520	148	198	403	1670	3790	2610	459	48	195
MIN	8.0	233	151	62	95	142	302	842	514	52	7.6	7.4
AC-FT	5720	30980	17060	5960	7500	15410	57630	105700	81070	11760	1330	1310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2000, BY WATER YEAR (WY)

MEAN	97.9	318	269	195	280	313	842	1495	1060	231	40.9	30.2
MAX	381	1374	1242	424	1133	539	1203	1864	1899	597	102	122
(WY)	1998	1996	1996	1990	1996	1995	1989	1997	1997	1999	1993	1997
MIN	7.62	23.0	33.2	52.2	50.2	193	436	1031	230	58.2	16.9	9.60
(WY)	1992	1994	1994	1993	1994	1990	1995	1994	1992	1992	1994	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1989 - 2000	
ANNUAL TOTAL	179496.4		172129.0			
ANNUAL MEAN	492		470		430	
HIGHEST ANNUAL MEAN					716	1996
LOWEST ANNUAL MEAN					234	1992
HIGHEST DAILY MEAN	2850	May 25	3790	May 22	4970	Feb 9 1996
LOWEST DAILY MEAN	8.0	Oct 7	7.4	Sep 1	6.1	Sep 18 1998
ANNUAL SEVEN-DAY MINIMUM	9.3	Oct 1	8.0	Aug 29	6.6	Oct 9 1991
ANNUAL RUNOFF (AC-FT)	356000		341400		311600	
10 PERCENT EXCEEDS	1360		1420		1300	
50 PERCENT EXCEEDS	256		199		152	
90 PERCENT EXCEEDS	27		13		20	

PEND OREILLE RIVER BASIN

12392500 LAKE PEND OREILLE NEAR HOPE, ID

LOCATION.--Lat 48°16'35", long 116°20'47", in NW¼SE¼NW¼ sec.21, T.57 N., R.1 E., Bonner County, Hydrologic Unit 17010214, 0.5 mi southeast of Trestle Creek and 2.5 mi northwest of Hope.

DRAINAGE AREA.--22,900 mi^2, approximately (natural drainage area above mouth of lake at Sandpoint).

PERIOD OF RECORD.--March 1914 to current year. Published as "at Sandpoint" 1914-22. Records published for both sites September 1921 to September 1922. Published as "at Hope" September 1921 to December 1974.

REVISED RECORDS.--WSP 1122: 1946.

GAGE.--Water-stage recorder. Datum of gage is 2,000.00 ft above sea level; gage readings have been reduced to elevations of that datum. Prior to Oct. 1, 1921, nonrecording gage at Sandpoint at datum 42.18 ft higher. Oct. 1, 1921, to Sept. 30, 1929, nonrecording gage "at Hope" site at datum 45.47 ft higher than present datum. Oct. 1, 1929, to Sept. 30, 1950, water-stage recorder "at Hope" site at datum 0.20 ft lower than present datum. Oct. 1, 1950, to Dec. 23, 1974, water-stage recorder "at Hope" site at present datum. Add 2,000 ft to gage heights to obtain elevations.

REMARKS.--Station equipment includes satellite telemetry. Regulation at Albeni Falls Dam beginning June 4, 1952. Contents shown is that above elevation 2,044.8 ft, but does not include storage in Pend Oreille River above Albeni Falls Dam.

COOPERATION.--Capacity table provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 2,071.62 ft, present datum, June 9, 1948, contents, 2,462,000 acre-ft; minimum, 2,046.27 ft, present datum, Feb. 17, 1936, contents, 117,700 acre-ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 2,075.88 ft, present datum, June 1894, contents, 2,905,000 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2,062.56 ft, July 7, 8, contents, 1,567,000 acre-ft; minimum elevation, 2,052.68 ft, Nov. 20, contents, 665,600 acre-ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

2,052	605,800	2,058	1,143,000
2,054	782,500	2,060	1,327,000
2,056	961,600	2,062	1,514,000
		2,064	1,704,000

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59.80	55.23	53.30	53.26	53.42	53.26	53.72	55.68	59.26	62.25	62.23	62.37
2	59.59	55.06	53.20	53.19	53.43	53.37	53.66	55.78	59.40	62.15	62.23	62.41
3	59.42	54.50	53.25	53.26	53.51	53.42	53.70	56.00	59.56	62.16	62.31	62.42
4	59.19	54.57	53.23	53.39	53.52	53.54	53.64	56.12	59.68	62.32	62.34	62.41
5	58.99	54.29	53.18	53.48	53.40	53.65	53.74	56.24	59.90	62.42	62.25	62.40
6	58.75	53.89	53.28	53.53	53.35	53.75	53.88	56.32	60.29	62.51	62.30	62.31
7	58.58	53.63	53.35	53.54	53.32	53.71	53.89	56.48	60.65	62.55	62.25	62.29
8	58.44	53.51	53.36	53.53	53.45	53.74	53.72	56.48	61.03	62.51	62.24	62.29
9	58.23	53.49	53.45	53.43	53.43	53.73	53.61	56.46	61.40	62.40	62.32	62.15
10	57.98	53.34	53.43	53.49	53.52	53.65	53.61	56.60	61.57	62.39	62.30	62.14
11	57.76	53.26	53.34	53.57	53.63	53.46	53.69	56.76	61.69	62.39	62.25	62.13
12	57.49	53.58	53.30	53.57	53.57	53.33	53.79	56.78	61.90	62.42	62.16	62.11
13	57.24	53.58	53.23	53.58	53.57	53.25	54.02	56.75	62.02	62.42	62.18	62.07
14	56.96	53.40	53.20	53.60	53.70	53.33	54.37	56.84	62.03	62.42	62.15	62.00
15	56.63	53.33	53.44	53.46	53.71	53.32	54.67	56.97	62.10	62.27	62.17	61.94
16	56.30	53.22	53.39	53.40	53.68	53.55	54.96	57.24	62.23	62.24	62.24	61.80
17	56.02	53.19	53.37	53.42	53.63	53.64	55.23	57.48	62.33	62.29	62.30	61.66
18	55.67	53.22	53.18	53.40	53.69	53.58	55.40	57.66	62.36	62.30	62.36	61.55
19	55.43	53.03	53.09	53.39	53.59	53.60	55.49	57.78	62.33	62.27	62.29	61.35
20	55.25	53.11	53.18	53.44	53.50	53.64	55.54	57.87	62.27	62.31	62.22	61.22
21	55.22	53.24	53.25	53.46	53.48	53.64	55.47	57.96	62.24	62.32	62.24	61.03
22	55.27	53.31	53.32	53.35	53.46	53.76	55.57	58.07	62.32	62.16	62.31	60.95
23	55.29	53.46	53.37	53.29	53.51	53.79	55.69	58.23	62.34	62.20	62.33	60.80
24	55.36	53.46	53.34	53.34	53.46	53.77	55.70	58.38	62.35	62.17	62.37	60.70
25	55.41	53.44	53.30	53.39	53.41	53.65	55.73	58.50	62.35	62.26	62.43	60.66
26	55.26	53.34	53.26	53.44	53.20	53.58	55.67	58.68	62.35	62.32	62.38	60.60
27	55.40	53.21	53.25	53.47	53.10	53.61	55.61	58.69	62.42	62.31	62.32	60.45
28	55.40	53.20	53.32	53.51	53.15	53.65	55.73	58.74	62.42	62.35	62.28	60.32
29	55.41	53.25	53.37	53.40	53.22	53.66	55.69	58.75	62.44	62.26	62.30	60.17
30	55.29	53.37	53.36	53.23	---	53.69	55.65	58.86	62.34	62.28	62.31	60.02
31	55.28	---	53.30	53.25	---	53.70	---	59.06	---	62.28	62.37	---
MEAN	56.85	53.59	53.30	53.42	53.47	53.58	54.69	57.36	61.59	62.32	62.28	61.56
MAX	59.80	55.23	53.45	53.60	53.71	53.79	55.73	59.06	62.44	62.55	62.43	62.42
MIN	55.22	53.03	53.09	53.19	53.10	53.25	53.61	55.68	59.26	62.15	62.15	60.02
†	896900	726400	720200	715800	713200	755800	930100	1240000	1546000	1540000	1549000	1329000
‡	-426100	-170500	-6200	-4400	-2600	42600	174300	309900	306000	-6000	9000	-220000

CAL YR 1999 MEAN 57.47 MAX 62.46 MIN 53.03 ‡ -192000
WTR YR 2000 MEAN 57.01 MAX 62.55 MIN 53.03 ‡ 6000

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

PEND OREILLE RIVER BASIN

12393000 PRIEST LAKE AT OUTLET, NEAR COOLIN, ID

LOCATION.--Lat 48°29'36", long 116°52'58", in NE¼NE¼SW¼ sec.5, T.59 N., R.4 W., Bonner County, Hydrologic Unit 17010215, 0.5 mi east of outlet, 1.8 mi northwest of Coolin, and 44 mi upstream from mouth of Priest River.

DRAINAGE AREA.--572 mi^2.

PERIOD OF RECORD.--June 1911 to September 1913 (fragmentary gage-height records at Coolin, published as part of records for "Priest River at outlet of Priest Lake, at Coolin"), April 1928 to July 1950 (gage-height record only), August 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,434.64 ft above sea level. June 18, 1911 to Sept. 30, 1913, nonrecording gages at Coolin at different datums. Apr. 21, 1928 to Oct. 18, 1939, nonrecording gage at site 400 ft north of lake outlet at present datum.

REMARKS.--Flow from Priest Lake is regulated to hold lake at heights desirable for recreation interests during summer months and storage is released for power use downstream during winter months. Storage began Aug. 9, 1950. Prior to Aug. 9, 1950, some regulation resulted from logging operations in the outlet channel. Figures given herein represent contents above gage height of about -2 ft. Capacity table is based on area measured from Priest Lake quadrangle (scale 1:250,000) and reconnaissance survey of marginal areas and is only approximate. New dam completed Nov. 27, 1978.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.68 ft, June 20, 1974, contents, 207,500 acre-ft; minimum, -0.40 ft Jan. 5, 6, 1977, contents, 37,500 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.88 ft, May 26, contents, 140,200 acre-ft; minimum, -0.07 ft, Feb. 19-22, contents, 46,700 acre-ft.

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

-0.50	36,600	2.0	95,500
0.0	48,300	3.0	119,300
1.0	71,900	4.0	143,100

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.92	1.87	.99	.40	.08	.03	.41	2.90	3.46	3.11	3.11	2.96
2	2.91	1.81	1.03	.36	.05	.04	.43	3.06	3.37	3.10	3.12	2.95
3	2.88	1.70	.97	.37	.02	.08	.45	3.25	3.34	3.06	3.13	3.01
4	2.90	1.59	.95	.41	.03	.17	.46	3.41	3.33	3.05	3.13	3.01
5	2.89	1.51	.88	.36	.01	.20	.61	3.54	3.46	3.08	3.12	3.01
6	2.88	1.43	.92	.30	-.01	.21	.65	3.52	3.50	3.13	3.10	3.02
7	2.89	1.38	.90	.30	-.02	.23	.67	3.47	3.57	3.19	3.09	3.03
8	2.94	1.32	.84	.34	-.01	.23	.73	3.42	3.58	3.18	3.08	3.04
9	2.95	1.23	.81	.28	.03	.23	.75	3.34	3.58	3.23	3.06	3.09
10	2.98	1.18	.80	.32	.01	.25	.81	3.40	3.53	3.21	3.03	3.14
11	3.04	1.26	.76	.29	.02	.29	.90	3.32	3.47	3.22	3.01	3.15
12	3.02	1.35	.78	.23	.01	.28	1.01	3.26	3.57	3.18	2.99	3.15
13	3.10	1.52	.75	.28	-.01	.28	1.18	3.18	3.60	3.17	2.95	3.15
14	3.11	1.64	.74	.27	.02	.29	1.39	3.12	3.58	3.11	2.95	3.15
15	3.11	1.64	.78	.27	-.01	.31	1.55	3.08	3.60	3.08	2.94	3.10
16	3.12	1.60	.82	.27	-.01	.31	1.69	3.06	3.54	3.04	2.94	3.09
17	3.12	1.62	.81	.21	-.03	.32	1.82	3.08	3.46	3.03	2.94	3.08
18	3.08	1.60	.75	.25	-.03	.33	1.91	3.17	3.41	3.00	2.90	3.03
19	3.02	1.52	.75	.18	-.03	.36	2.00	3.28	3.35	2.99	2.90	2.98
20	2.95	1.47	.74	.20	-.06	.37	2.11	3.38	3.31	2.99	2.90	2.95
21	2.89	1.40	.66	.17	-.06	.33	2.24	3.50	3.23	2.99	2.90	2.94
22	2.84	1.35	.63	.14	-.03	.37	2.39	3.70	3.29	2.97	2.93	2.90
23	2.72	1.30	.63	.13	-.01	.37	2.54	3.80	3.29	3.01	2.93	2.88
24	2.60	1.31	.58	.11	.00	.33	2.58	3.86	3.30	3.02	2.94	2.86
25	2.52	1.30	.52	.10	.01	.37	2.61	3.85	3.29	3.03	2.94	2.86
26	2.40	1.24	.53	.09	.01	.35	2.62	3.83	3.25	3.04	2.94	2.86
27	2.31	1.16	.47	.07	.04	.32	2.60	3.77	3.23	3.05	2.94	2.87
28	2.20	1.10	.44	.05	.05	.36	2.74	3.76	3.22	3.07	2.94	2.86
29	2.13	1.00	.40	.05	.05	.39	2.82	3.68	3.16	3.08	2.95	2.90
30	2.05	1.06	.42	.05	---	.38	2.86	3.67	3.15	3.10	2.94	2.90
31	1.99	---	.36	-.01	---	.38	---	3.55	---	3.11	2.95	---
MEAN	2.79	1.42	.72	.22	.00	.28	1.58	3.43	3.40	3.08	2.99	3.00
MAX	3.12	1.87	1.03	.41	.08	.39	2.86	3.86	3.60	3.23	3.13	3.15
MIN	1.99	1.00	.36	-.01	-.06	.03	.41	2.90	3.15	2.97	2.90	2.86
†	95300	73300	56800	48100	49500	57200	115900	132400	122800	121900	118100	116900
‡	-22300	-22000	-16500	-8700	1400	7700	58700	16500	-9600	-900	-3800	-1200

CAL YR 1999 MEAN 2.05 MAX 5.06 MIN .22 ‡ -2100
WTR YR 2000 MEAN 1.92 MAX 3.86 MIN -.06 ‡ -700

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

PEND OREILLE RIVER BASIN

12394000 PRIEST RIVER NEAR COOLIN, ID

LOCATION.--Lat 48°27'07", long 116°53'58", in SE¼SW¼NE¼ sec.19, T.59 N., R.4 W., Bonner County, Hydrologic Unit 17010215, in Dickensheet campground, on left bank 190 ft downstream from Dickensheet Bridge, 2.5 mi downstream from Binarch Creek, 3 mi southwest of Coolin, 5.2 mi downstream from outlet of Priest Lake, and at mile 38.8.

DRAINAGE AREA.--611 mi^2.

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,338.24 ft above sea level. Prior to Feb. 23, 1949, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. No diversion above station. Flow partly regulated by Priest Lake (sta 12393000) 5.2 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,280 ft^3/s June 3, 1997, gage height, 8.02 ft; maximum gage height, 8.44 ft, June 18, 1974; minimum observed discharge, 26 ft^3/s Sept. 25, 1958, gage height, 1.16 ft, but may have been less Sept. 11, 1953 and Sept. 24, 1958, when stage was below intake.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 29, 1948, reached a stage of 8.40 ft, present site and datum, discharge, 8,670 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,050 ft^3/s May 26, gage height, 6.21 ft; minimum daily, 65 ft^3/s Oct. 14-17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	214	1600	1370	804	545	539	853	3810	4550	1450	198	99
2	214	1570	1380	794	549	542	883	3980	4440	1440	198	100
3	213	1540	1360	782	541	544	923	4250	4340	1440	198	101
4	211	1510	1320	800	530	593	968	4490	3810	1430	198	101
5	211	1480	1280	785	525	635	1040	4650	2490	970	295	100
6	211	1450	1270	775	518	659	1100	4650	3170	718	356	100
7	133	1420	1250	757	510	680	1150	4540	3510	719	357	99
8	72	1380	1220	760	520	685	1190	4460	4020	719	357	101
9	69	1350	1190	754	530	692	1240	4400	4260	721	356	102
10	68	1340	1160	744	525	697	1310	4380	4260	969	353	104
11	67	1340	1140	731	517	712	1410	4270	4190	1100	353	154
12	67	1360	1140	719	516	730	1530	4190	4200	1100	353	188
13	66	1430	1140	722	511	729	1680	4070	4330	1100	353	189
14	65	1480	1120	723	504	750	1920	3930	4300	1090	266	331
15	65	1510	1150	714	510	753	2080	3830	4320	1080	166	419
16	65	1500	1160	711	506	758	2240	3770	4280	1070	164	421
17	65	1630	1150	703	497	758	2370	3780	4210	785	163	421
18	615	1810	1150	686	489	765	2480	3890	4120	644	162	466
19	928	1780	1130	668	479	788	2590	4090	3590	643	153	509
20	928	1730	1100	655	473	783	2740	4260	3320	643	106	509
21	928	1690	1070	649	473	777	2870	4450	2870	449	105	517
22	926	1650	1040	635	478	776	3040	4640	2040	345	104	515
23	1530	1610	1010	624	494	786	3230	4850	2030	258	103	389
24	1770	1590	981	604	509	795	3350	4980	2020	204	104	299
25	1750	1590	952	591	508	795	3400	5010	2030	202	103	244
26	1730	1560	922	586	510	794	3420	5020	2020	200	101	142
27	1700	1510	898	575	521	801	3410	4960	2010	199	101	129
28	1690	1470	870	563	531	818	3520	4880	2000	198	101	119
29	1670	1420	848	555	533	829	3670	4820	1990	198	101	117
30	1650	1380	824	544	---	833	3750	4720	1630	198	101	118
31	1630	---	812	531	---	841	---	4650	---	198	100	---
TOTAL	21521	45680	34407	21244	14852	22637	65357	136670	100350	22480	6229	7203
MEAN	694	1523	1110	685	512	730	2179	4409	3345	725	201	240
MAX	1770	1810	1380	804	549	841	3750	5020	4550	1450	357	517
MIN	65	1340	812	531	473	539	853	3770	1630	198	100	99
AC-FT	42690	90610	68250	42140	29460	44900	129600	271100	199000	44590	12360	14290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY)

MEAN	937	1041	735	625	631	786	1642	3928	3594	1030	317	269
MAX	1518	2385	2028	1868	1935	1887	2571	6453	7207	2739	727	1219
(WY)	1982	1984	1996	1974	1951	1983	1960	1997	1974	1955	1983	1959
MIN	258	294	237	203	250	285	515	1242	929	239	95.6	71.5
(WY)	1950	1949	1992	1993	1977	1989	1977	1977	1992	1985	1994	1967

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1949 - 2000	
ANNUAL TOTAL	640110		498630			
ANNUAL MEAN	1754		1362		1296	
HIGHEST ANNUAL MEAN					2174	1974
LOWEST ANNUAL MEAN					534	1977
HIGHEST DAILY MEAN	6970	Jun 1	5020	May 26	9120	Jun 3 1997
LOWEST DAILY MEAN	65	Oct 14	65	Oct 14	38	Jul 28 1951
ANNUAL SEVEN-DAY MINIMUM	66	Oct 11	66	Oct 11	38	Jul 27 1951
ANNUAL RUNOFF (AC-FT)	1270000		989000		938700	
10 PERCENT EXCEEDS	4900		4080		3530	
50 PERCENT EXCEEDS	1080		800		742	
90 PERCENT EXCEEDS	223		132		200	

PEND OREILLE RIVER BASIN

12395000 PRIEST RIVER NEAR PRIEST RIVER, ID

LOCATION.--Lat 48°12'31", long 116°54'49", in NW¼SW¼NW¼ sec.12, T.56 N., R.5 W., Bonner County, Hydrologic Unit 17010215, on right bank, 500 ft downstream from Saddler Creek, 0.4 mi downstream from Lower West Branch, 2.7 mi north of Priest River, and at mile 3.8.

DRAINAGE AREA.--902 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1903 to April 1905, November 1910 to April 1911, May to December 1923, February 1929 to current year. Prior to October 1930, published as "at Priest River."

REVISED RECORDS.--WSP 572: 1903-5.

GAGE.--Water-stage recorder. Elevation of gage is 2,090 ft above sea level, from river-profile map. Prior to May 15, 1929, and Sept. 18, 1929, to Apr. 28, 1930, nonrecording gages at site 3 mi downstream at elevation of about 40 ft lower. June 4 to Sept. 17, 1929, and Apr. 29 to Sept. 11, 1930, nonrecording gages at or near present site at present datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Some regulation on tributaries and, since Aug. 9, 1950, flow partly regulated by Priest Lake (see sta 12393000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1913-49), 10,500 ft^3/s May 29, 30, 1948; maximum gage height, 8.97 ft, May 29, 1948; minimum daily, 191 ft^3/s Jan 7, 1937. Maximum discharge since regulation (1950-99), 10,800 ft^3/s May 18, 1997, gage height, 9.13 ft; minimum, 150 ft^3/s Nov. 29, 1979, gage height, 0.38 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,900 ft^3/s May 24, 25; minimum daily, 211 ft^3/s Oct. 16, 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	360	1830	1710	1060	793	1000	1760	4780	5170	1890	386	247
2	360	1800	1770	1040	868	1010	1870	5020	5000	1850	380	252
3	360	1770	1720	1020	859	1030	2020	5350	4870	1840	375	259
4	360	1730	1610	1040	830	1280	2180	5560	4800	1860	372	259
5	360	1690	1550	1020	817	1640	2400	5690	3470	1740	370	258
6	360	1690	1560	1010	795	1730	2450	5730	3550	1110	513	259
7	359	1650	1560	996	785	1710	2340	5620	4110	1100	534	255
8	284	1610	1490	1030	799	1600	2240	5460	4290	1080	534	250
9	238	1560	1460	1040	872	1520	2220	5360	4840	1070	532	269
10	227	1570	1420	986	873	1490	2300	5440	4770	1130	528	319
11	225	1630	1390	987	849	1510	2460	5300	4680	1450	522	327
12	236	1690	1530	972	845	1540	2680	5140	4860	1430	517	344
13	235	1740	1720	962	829	1490	2980	4990	5190	1430	515	353
14	225	1770	1550	978	819	1600	3820	4840	4920	1410	517	351
15	215	1770	1680	986	818	1580	4140	4720	4890	1390	385	554
16	211	1760	1970	980	796	1540	4280	4640	4780	1390	325	588
17	211	1750	1770	961	768	1500	4370	4650	4680	1310	319	588
18	212	2100	1850	916	770	1460	4310	4740	4600	921	315	583
19	1120	2060	1690	e900	744	1750	4320	4950	4390	909	314	660
20	1180	2020	1560	885	736	1610	4360	5130	3830	896	304	679
21	1190	1970	1480	889	756	1520	4410	5310	3750	864	262	709
22	1180	1910	1420	879	767	1530	4550	5580	2780	589	259	711
23	1350	1880	1360	852	848	1680	4730	5790	2640	564	256	688
24	1970	1870	1300	830	917	1670	4730	5900	2610	437	251	487
25	1970	1950	1270	817	909	1640	4660	5900	2590	410	257	464
26	1990	1940	1210	823	898	1600	4590	5850	2550	405	258	378
27	1950	1840	1170	804	920	1650	4450	5790	2530	402	248	298
28	1990	1760	1140	794	968	1770	4650	5650	2520	394	247	284
29	1970	1690	1110	774	989	1800	4840	5570	2510	389	247	273
30	1910	1670	1080	757	---	1750	4780	5450	2340	389	249	277
31	1880	---	1070	741	---	1730	---	5350	---	389	248	---
TOTAL	26688	53670	46170	28729	24237	47930	105890	165250	118510	32438	11339	12223
MEAN	861	1789	1489	927	836	1546	3530	5331	3950	1046	366	407
MAX	1990	2100	1970	1060	989	1800	4840	5900	5190	1890	534	711
MIN	211	1560	1070	741	736	1000	1760	4640	2340	389	247	247
AC-FT	52940	106500	91580	56980	48070	95070	210000	327800	235100	64340	22490	24240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1949, BY WATER YEAR (WY) (UNREGULATED)

MEAN	448	642	812	806	734	1006	2486	4737	3632	1448	619	424
MAX	1230	1785	2574	2742	1884	2008	4452	7422	6635	2503	1117	721
(WY)	1948	1948	1942	1934	1934	1934	1934	1946	1948	1933	1948	1941
MIN	253	227	293	284	360	459	958	2712	1611	751	372	266
(WY)	1937	1937	1937	1937	1936	1937	1929	1930	1930	1940	1940	1931

SUMMARY STATISTICS	[a] WATER YEARS 1913 - 1949	
ANNUAL TOTAL	576217	
ANNUAL MEAN	1503	
HIGHEST ANNUAL MEAN	2217	1948
LOWEST ANNUAL MEAN	824	1930
HIGHEST DAILY MEAN	10400	May 29 1948
LOWEST DAILY MEAN	191	Jan 7 1937
ANNUAL SEVEN-DAY MINIMUM	215	Nov 30 1936
ANNUAL RUNOFF (AC-FT)	1089000	
10 PERCENT EXCEEDS	3960	
50 PERCENT EXCEEDS	780	
90 PERCENT EXCEEDS	333	

PEND OREILLE RIVER BASIN

12395000 PRIEST RIVER NEAR PRIEST RIVER, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2000, BY WATER YEAR (WY) (REGULATED, UNADJUSTED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1094	1308	1041	931	1035	1413	2668	4900	4251	1319	478	412
MAX	1768	2951	2612	2960	2794	3629	4250	8405	8528	3144	1026	1350
(WY)	1998	1984	1996	1974	1951	1982	1997	1997	1974	1974	1983	1959
MIN	426	492	357	310	350	508	810	1563	1167	399	206	178
(WY)	1950	1980	1993	1993	1985	1985	1977	1977	1992	1977	1994	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		[b] WATER YEARS 1950 - 2000	
ANNUAL TOTAL	858754		673074			
ANNUAL MEAN	2353		1839		1738	
HIGHEST ANNUAL MEAN					2947	1974
LOWEST ANNUAL MEAN					711	1977
HIGHEST DAILY MEAN	8300	May 30	5900	May 24	10700	May 18 1997
LOWEST DAILY MEAN	211	Oct 16	211	Oct 16	160	Feb 6 1989
ANNUAL SEVEN-DAY MINIMUM	221	Oct 12	221	Oct 12	165	Sep 29 1979
ANNUAL RUNOFF (AC-FT)	1703000		1335000		1259000	
10 PERCENT EXCEEDS	5790		4790		4430	
50 PERCENT EXCEEDS	1640		1420		1080	
90 PERCENT EXCEEDS	374		311		337	

a Unregulated
b Regulated, unadjusted.
e Estimated

12395000 PRIEST RIVER NEAR PRIEST RIVER, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to 1996, April to September 1998, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May to September 1998, May to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 25.3 °C July 27, 1998.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 23.0 °C July 31.

REMARKS.--Missing data due to equipment malfunction.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
04...	1340	2180	45	7.6	17.5	5.8	11	13.1	113	K2	<1
MAY											
15...	1245	4700	45	7.5	22.0	9.4	2.2	11.1	104	K2	140
JUN											
20...	1000	3850	46	7.3	14.0	13.0	1.4	9.9	100	K16	K6
JUL											
17...	1215	1380	51	7.5	30.5	19.0	3.9	9.7	112	K16	24
AUG											
07...	0945	534	60	7.4	23.0	19.5	1.0	--	--	45	21
SEP											
05...	1445	259	76	7.6	17.5	13.3	.8	8.5	87	K14	K2

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
05...	32	9.30	2.04	2.5	14	.8	42	0

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
05...	34	2.0	.5	<.1	12.8	51	.07	34.2

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR							
04...	<.005	<.002	.16	.037	.003	26	152
MAY							
15...	<.005	.004	.12	.015	<.001	15	191
JUN							
20...	<.005	<.002	.10	.014	<.001	10	104
JUL							
17...	<.005	<.002	.16	.008	.001	5	18
AUG							
07...	<.005	.003	.10	.008	<.001	5	7.0
SEP							
05...	.007	.004	E.10	.010	.001	6	4.1

E Positive detection but below stated detection limit.
K Results based on counts outside ideal colony range.

PEND OREILLE RIVER BASIN

12395000 PRIEST RIVER NEAR PRIEST RIVER, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, MAY TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	---	---	---
2	---	---	---	---	---	---
3	---	---	---	---	---	---
4	---	---	---	---	---	---
5	---	---	---	---	---	---
6	---	---	---	---	---	---
7	---	---	---	---	---	---
8	---	---	---	---	---	---
9	---	---	---	---	---	---
10	---	---	---	---	---	---
11	---	---	---	---	---	---
12	---	---	---	---	---	---
13	---	---	---	---	---	---
14	---	---	---	---	---	---
15	---	---	---	---	---	---
16	---	---	---	12.1	9.6	10.7
17	---	---	---	12.6	10.2	11.4
18	---	---	---	12.6	9.6	10.8
19	---	---	---	10.2	8.1	9.1
20	---	---	---	11.8	8.7	9.9
21	---	---	---	11.8	9.8	10.7
22	---	---	---	13.2	10.7	11.7
23	---	---	---	12.9	9.9	11.1
24	---	---	---	13.7	9.8	11.9
25	---	---	---	13.5	10.6	11.7
26	---	---	---	11.5	8.5	9.7
27	---	---	---	11.9	9.8	10.9
28	---	---	---	11.9	9.3	10.5
29	---	---	---	11.3	7.5	9.4
30	---	---	---	11.8	10.6	11.2
31	---	---	---	12.1	11.2	11.6
MONTH	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	13.2	10.9	11.9	---	---	---	22.7	19.2	21.2	15.2	13.5	14.3
2	13.3	12.1	12.9	---	---	---	22.3	18.7	20.6	14.3	12.9	13.5
3	13.7	11.8	12.9	---	---	---	22.5	18.4	20.6	15.2	11.9	13.5
4	14.7	12.6	13.5	---	---	---	22.2	18.6	20.5	14.4	12.3	13.4
5	15.1	13.3	14.2	---	---	---	22.3	18.6	20.6	13.3	11.3	12.5
6	14.3	13.3	13.9	---	---	---	21.8	18.9	20.5	14.0	12.1	13.1
7	14.4	11.5	12.9	---	---	---	22.5	18.7	20.7	14.6	11.8	13.3
8	14.3	13.0	13.6	---	---	---	22.7	19.2	20.9	14.1	12.7	13.3
9	13.5	12.3	13.2	---	---	---	22.5	19.0	20.8	12.9	11.2	11.9
10	12.3	9.5	10.4	---	---	---	22.3	19.5	20.9	11.8	10.7	11.3
11	11.3	10.2	10.7	---	---	---	21.8	19.2	20.4	13.0	10.9	11.7
12	11.5	9.3	10.4	---	---	---	20.5	17.3	19.0	14.9	11.0	12.8
13	12.6	10.9	11.7	---	---	---	19.9	16.8	18.5	16.3	12.7	14.4
14	12.6	11.6	12.1	---	---	---	19.7	16.2	17.9	16.8	13.3	15.1
15	13.5	11.6	12.4	---	---	---	19.0	16.0	17.6	16.5	14.6	15.4
16	14.7	12.3	13.4	---	---	---	19.2	15.1	17.4	17.4	14.6	15.9
17	14.7	12.9	14.0	---	---	---	19.2	15.1	17.4	17.6	14.9	16.3
18	14.7	13.5	14.0	21.3	17.6	19.5	19.2	15.2	17.4	16.6	15.5	16.1
19	14.7	12.7	13.9	22.0	18.1	20.0	17.8	15.5	16.8	16.0	14.3	15.2
20	15.7	13.2	14.5	22.3	18.4	20.4	17.6	14.0	16.0	14.7	12.4	13.3
21	16.2	14.1	15.2	22.8	18.7	20.8	17.8	13.7	15.9	12.4	10.1	11.5
22	17.3	14.6	15.8	21.3	18.9	20.1	18.4	13.8	16.3	11.0	8.7	9.8
23	16.5	15.1	15.7	20.7	18.2	19.5	18.7	14.3	16.8	11.0	8.2	9.6
24	15.1	14.0	14.5	21.3	17.3	19.4	18.7	15.4	17.2	11.5	8.5	10.0
25	17.1	13.3	15.1	21.7	17.4	19.6	19.0	15.5	17.3	11.9	9.0	10.5
26	17.9	15.8	16.9	21.3	17.3	19.5	18.6	15.2	16.9	12.4	9.6	11.0
27	19.0	16.2	17.5	21.0	17.3	19.3	17.0	14.3	15.6	12.6	9.6	11.1
28	18.6	17.1	17.9	21.7	17.3	19.7	16.5	12.6	14.7	11.8	9.8	10.9
29	19.5	16.6	18.0	22.3	18.1	20.4	15.4	12.7	14.4	11.3	9.8	10.6
30	19.2	17.9	18.6	22.8	18.7	20.8	17.4	13.5	15.4	11.6	10.9	11.2
31	---	---	---	23.0	19.4	21.1	16.2	13.3	15.0	---	---	---
MONTH	19.5	9.3	14.1	---	---	---	22.7	12.6	18.1	17.6	8.2	12.8

PEND OREILLE RIVER BASIN

12395500 PEND OREILLE RIVER AT NEWPORT, WA

LOCATION.--Lat 48°10'56", long 117°02'00", in SE¼SE¼SW¼ sec.24, T.56 N., R.6 W. (Boise Meridian), Bonner County, Hydrologic Unit 17010216, on left bank, at Newport, 0.2 mi upstream from bridge on U.S. Highway 2, 0.2 mi east of Idaho-Washington State line, 1.6 mi downstream from Albeni Falls Dam, and at mile 88.5.

DRAINAGE AREA.--24,200 mi^2, approximately.

PERIOD OF RECORD.--June 1903 to September 1941, October 1952 to current year. Prior to October 1921, published as "Clark Fork at Newport, Wash.," October 1921 to September 1937, as "Clark Fork at Priest River, Idaho," and October 1937 to September 1941, as "Pend Oreille River at Priest River, Idaho."

REVISED RECORDS.--WSP 532: 1903-11.

GAGE.--Water-stage recorder. Datum of gage is 1,999.7 ft above sea level. Prior to Sept. 22, 1928, nonrecording gages at Priest River, Newport, or Metaline Falls at various datums (see description, WSP 532, p. 92). Sept. 22, 1928, to Sept. 30, 1935, at datum 40.44 ft higher, and Oct. 1, 1935, to Sept. 30, 1941, water-stage recorder at datum 0.30 ft higher. Since December 1952, auxiliary water-stage recorder 2.74 mi downstream from base gage.

REMARKS.--No estimated daily discharges. Records good except for daily discharges Aug. 4 to Sept. 30, which are fair. Flow regulated at Albeni Falls Dam and affected by storage in Pend Oreille Lake (see sta 12392500), Flathead Lake, Hungry Horse Reservoir, and several smaller reservoirs. Diversions above station for irrigation of about 354,000 acres. Stage-discharge relation affected by backwater from Box Canyon dam 54 mi downstream. Discharge computed from slope and conveyance of reach between base and auxiliary gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136,000 ft^3/s June 15, 1933, June 21, 1933, June 12, 1972; minimum, 1,280 ft^3/s Sept. 1, 1961,

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1894 reached a stage of about 64.0 ft, present site and datum, (from water surface profiles) discharge, about 200,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 55,800 ft^3/s May 8, gage height, 40.94 ft; minimum daily, 6,620 ft^3/s Aug. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17900	17900	28400	19100	12500	14400	20500	47600	41400	29000	16400	7580
2	18700	22500	28500	18400	14700	13900	20600	48400	38800	23900	14500	7360
3	18700	28600	27200	18300	15400	15000	22300	49700	35400	20500	15300	7420
4	18500	28800	21000	18300	14800	14100	22900	51500	33800	19500	14200	7290
5	18000	29000	17900	19200	14600	14600	22600	53900	27800	23800	12900	9540
6	18000	29100	17400	19800	15200	17400	21300	54300	24100	27500	12300	12400
7	17900	29700	19500	19800	15600	21000	24800	54300	24600	27700	12800	11800
8	17900	25100	20800	19700	13400	20900	27100	54400	24100	27500	13000	11800
9	18200	23400	20800	19500	13400	21900	27100	51800	27200	27500	11800	12000
10	18900	24500	25800	19600	13300	22600	26200	45400	33500	26000	11200	12100
11	19500	19600	26300	19700	12800	22800	25100	43000	36800	25000	10900	12100
12	19700	15900	26300	19800	12700	23600	24100	43500	36900	25100	10600	12100
13	21700	20400	26400	19900	13100	21200	26400	38600	39700	25100	9500	12100
14	23100	24600	24800	19400	13400	19700	31000	32300	41500	23100	9270	13400
15	22900	25300	24300	19500	14900	17700	31500	32700	39300	21000	8890	14300
16	22400	25600	26100	18300	16500	15800	31600	31500	41100	21100	8790	14300
17	22100	24000	27000	17700	15200	15900	33600	32200	49100	21000	8760	14500
18	23500	25600	27100	18500	14600	15900	38700	36100	52600	21200	8580	14800
19	20800	25800	23100	17000	15000	15900	40800	39800	53400	21200	8600	15100
20	17500	14900	21900	15800	15300	17100	44200	41600	50100	19200	9100	14700
21	12700	15900	22600	15800	15100	18000	48600	43000	45100	16600	8050	14500
22	10400	18500	22200	16200	14500	18000	47500	45800	42800	15400	7810	14300
23	8970	19200	21200	16200	17500	18100	50600	50300	43500	15700	7200	14200
24	8290	24200	21300	16000	19500	18700	53000	50300	40800	14900	7130	14100
25	12100	27200	21400	15500	19500	18700	53400	49400	39400	13800	6620	13900
26	15300	28100	21400	14900	19500	18100	53400	46700	37600	14100	7610	13700
27	15600	27200	21900	14800	19500	18000	50500	44700	35700	13500	7800	15900
28	17000	21800	22100	14500	14700	18700	47600	44800	36900	13800	7580	17900
29	18000	19200	22300	14500	14300	19300	47800	44900	36400	13800	7870	17600
30	17600	23600	22400	14500	---	18600	47900	45100	34200	14000	7480	17300
31	17500	---	20600	13300	---	19700	---	43300	---	13800	7270	---
TOTAL	549360	705200	720000	543500	440500	565300	1062700	1390900	1143600	635300	309810	390090
MEAN	17720	23510	23230	17530	15190	18240	35420	44870	38120	20490	9994	13000
MAX	23500	29700	28500	19900	19500	23600	53400	54400	53400	29000	16400	17900
MIN	8290	14900	17400	13300	12500	13900	20500	31500	24100	13500	6620	7290
AC-FT	1090000	1399000	1428000	1078000	873700	1121000	2108000	2759000	2268000	1260000	614500	773700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2000, BY WATER YEAR (WY)

MEAN	17620	18470	16390	15620	16530	19260	27590	50030	62290	32460	14270	13570
MAX	31330	32280	36790	40010	41290	42260	56940	97850	114900	73730	45210	21990
(WY)	1960	1960	1996	1934	1996	1996	1956	1997	1933	1907	1907	1907
MIN	6208	6049	5987	4271	4380	6622	5507	15320	15220	7295	5875	6353
(WY)	1932	1937	1937	1937	1936	1937	1977	1977	1977	1977	1988	1931

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1903 - 2000	
ANNUAL TOTAL	9841160		8456260			
ANNUAL MEAN	26960		23100		25280	
HIGHEST ANNUAL MEAN					38600	1997
LOWEST ANNUAL MEAN					12920	1941
HIGHEST DAILY MEAN	76400	Jun 1	54400	May 8	135000	Jun 19 1933
LOWEST DAILY MEAN	8290	Oct 24	6620	Aug 25	2420	Sep 19 1962
ANNUAL SEVEN-DAY MINIMUM	10200	Sep 2	7390	Aug 22	3280	Aug 28 1962
ANNUAL RUNOFF (AC-FT)	19520000		16770000		18320000	
10 PERCENT EXCEEDS	56700		43500		53000	
50 PERCENT EXCEEDS	20900		19600		19000	
90 PERCENT EXCEEDS	13800		12100		8620	

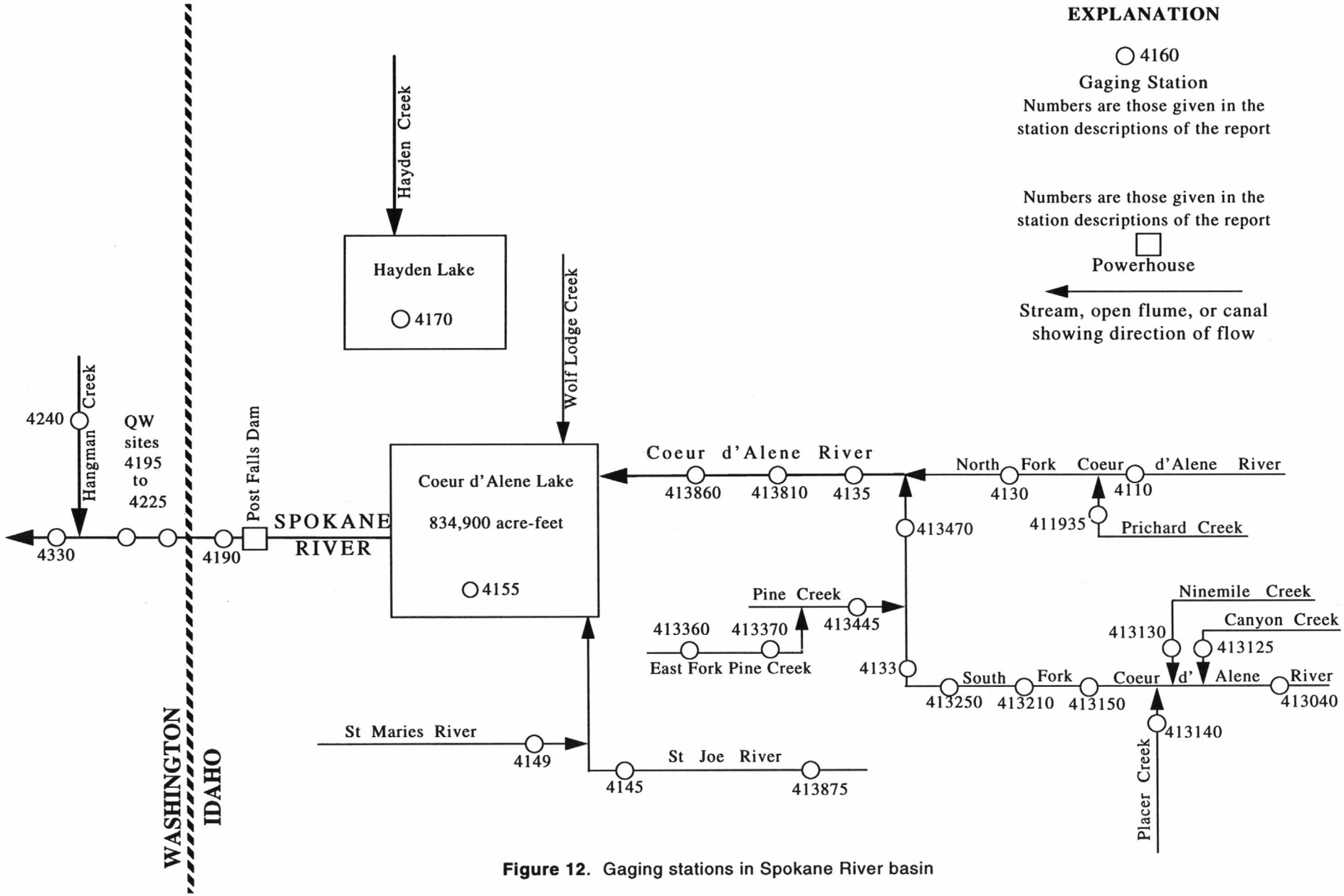


Figure 12. Gaging stations in Spokane River basin

SPOKANE RIVER BASIN

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

LOCATION.--Lat 47°42'26", long 115°58'36", in NE¼SE¼SW¼ sec.5, T.50 N., R.4 E., Shoshone County, Hydrologic Unit 17010301, in Idaho Panhandle National Forests, on left bank at Shoshone Creek Ranger Station, 0.1 mi downstream from Uranus Creek, 0.5 mi upstream from Shoshone Creek, 3.5 mi north of Prichard, and 200.0 mi upstream from mouth of Spokane River.

DRAINAGE AREA.--335 mi^2.

WATER-DISCHARGE RECORDS

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 sea level, from river-profile map.

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

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s	Gage height (ft)
Apr. 14	1700	*10,200	*7.95	No other peak greater than base discharge.			

Minimum daily, 88 ft^3/s Oct. 23, 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	187	550	e360	e280	707	1360	2190	948	322	143	105
2	96	151	553	e340	e750	726	1550	2760	830	309	139	111
3	96	132	532	e320	863	749	1920	3190	783	299	136	116
4	95	170	466	e300	738	865	2310	3050	752	330	133	115
5	96	168	429	e300	659	1250	3030	2570	733	332	129	109
6	96	181	426	e280	580	1580	2830	2140	705	307	128	110
7	95	212	399	e260	525	1550	2180	1880	653	313	126	112
8	126	179	352	292	501	1390	1850	1710	613	280	123	112
9	217	162	332	e300	522	1260	1800	1660	612	268	122	136
10	159	155	318	e280	e520	1140	2140	1780	568	255	120	161
11	121	158	306	e280	e520	1090	2820	1710	541	245	119	186
12	110	187	372	e260	e540	995	3370	1550	594	235	118	137
13	105	477	789	e260	545	926	3950	1420	702	227	115	118
14	101	445	768	267	521	917	8500	1370	635	218	113	109
15	97	327	689	268	504	874	7670	1400	713	211	111	104
16	94	263	868	264	451	849	5600	1550	681	206	110	101
17	93	236	1120	264	e400	823	4720	1760	658	201	108	99
18	92	237	1410	e240	e380	760	4640	1830	629	196	107	97
19	91	218	1490	e240	e360	836	4770	1720	612	193	104	98
20	91	245	1250	e240	e320	791	4470	1580	555	186	104	97
21	91	301	1020	e260	e380	748	4110	1540	515	182	104	101
22	89	278	831	e260	424	737	4430	1570	488	177	103	103
23	88	252	699	e260	451	1130	4310	1510	460	172	103	100
24	88	241	603	231	519	1370	3360	1360	442	170	101	98
25	89	486	e500	237	542	1350	2610	1220	431	166	99	97
26	109	1530	e460	239	549	1260	2160	1110	398	163	97	95
27	133	1510	e420	225	554	1260	1950	1010	377	159	95	95
28	217	990	e400	216	600	1540	2370	928	361	156	95	94
29	309	707	e380	e200	662	1630	2590	852	347	152	95	93
30	203	591	e380	e160	---	1480	2240	785	333	149	95	147
31	174	---	e360	e180	---	1360	---	992	---	146	96	---
TOTAL	3757	11376	19472	8083	15160	33943	101610	51697	17669	6925	3491	3356
MEAN	121	379	628	261	523	1095	3387	1668	589	223	113	112
MAX	309	1530	1490	360	863	1630	8500	3190	948	332	143	186
MIN	88	132	306	160	280	707	1360	785	333	146	95	93
AC-FT	7450	22560	38620	16030	30070	67330	201500	102500	35050	13740	6920	6660
CFSM	.36	1.13	1.88	.78	1.56	3.27	10.1	4.98	1.76	.67	.34	.33
IN.	.42	1.26	2.16	.90	1.68	3.77	11.28	5.74	1.96	.77	.39	.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

MEAN	142	339	525	501	711	922	2109	2118	691	227	126	107
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	109	188	896	411	184	104	68.6	71.2
(WY)	1988	1962	1953	1979	1985	1955	1973	1992	1992	1977	1973	1987

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000	
ANNUAL TOTAL	310946		276539			
ANNUAL MEAN	852		756		709	
HIGHEST ANNUAL MEAN					1267	1974
LOWEST ANNUAL MEAN					223	1977
HIGHEST DAILY MEAN	5790	May 25	8500	Apr 14	16000	Jan 15 1974
LOWEST DAILY MEAN	88	Oct 23	88	Oct 23	40	Dec 11 1961
ANNUAL SEVEN-DAY MINIMUM	90	Oct 19	90	Oct 19	44	Jan 3 1977
ANNUAL RUNOFF (AC-FT)	616800		548500		513500	
ANNUAL RUNOFF (CFSM)	2.54		2.26		2.12	
ANNUAL RUNOFF (INCHES)	34.53		30.71		28.75	
10 PERCENT EXCEEDS	2400		1790		1970	
50 PERCENT EXCEEDS	442		356		285	
90 PERCENT EXCEEDS	102		101		94	

e Estimated

SPOKANE RIVER BASIN

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

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1992-94, 1999, November 1999 to March 2000 (discontinued).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
NOV										
18...	0715	240	52	7.5	3.5	5.0	25	5.7	2.7	1.0
JAN										
05...	1025	322	44	7.1	.5	0.0	21	4.9	2.2	--
FEB										
16...	1300	441	44	7.4	0.0	2.5	20	4.6	2.1	--
MAR										
27...	1620	1270	39	7.6	6.5	5.5	19	4.2	1.9	--

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV										
18...	<.3	<.3	<.1	9.1	.023	<.002	.1	E.004	.002	<1
JAN										
05...	--	--	--	--	.015	.002	<.1	<.008	<.001	<1
FEB										
16...	--	--	--	--	<.005	<.002	E.06	<.008	.002	<1
MAR										
27...	--	--	--	--	<.005	.003	<.1	E.006	.003	<1

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV									
18...	<1	E17.2	<10	<1	<1	<1	<1	<1	<1
JAN									
05...	<1	<20	<10	<1	<1	<1	<1	3	<1
FEB									
16...	<1	<20	<10	<1	<1	<1	<1	<1	<1
MAR									
27...	<1	41.7	<10	<1	<1	1.4	<1	5	<1

E Positive detection but below stated detection limit.

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

COLLECTION METHODS.--Electrofishing; backpack (11A).

LENGTH OF REACH.--300 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--1.0 hours

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

BIOLOGICAL DATA, SEPTEMBER 2000
FISH COLLECTION DATA

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Sep. 11								
Catostomidae (Suckers)									
Catostomus macrocheilus (Largescale sucker)		3	3.2	35-71	1-5	NATIVE	OMNIVORE	COLD	3-AA
Cottidae (Sculpins)									
Cottus confusus (Shorthead sculpin)		15	16.0	45-87	1-8	NATIVE	INVERTIVORE	COLD	15-AA
Cottus rhotheus (Torrent sculpin)		40	42.6	24-100	1-18	NATIVE	INVERTIVORE	COLD	40-AA
Cyprinidae (Carps and minnows)									
Rhinichthys cataractae (Longnose dace)		6	6.4	55-100	2-13	NATIVE	INVERTIVORE	COLD	6-AA
Rhinichthys osculus (Speckled dace)		28	29.8	47-72	1-6	NATIVE	INVERTIVORE	COLD	28-AA
Salmonidae (Trouts)									
Oncorhynchus clarki sp. (Cutthroat trout)		2	2.1	160-421	42-828	NATIVE	INVERTIVORE	COLD	2-AA

TOTAL NUMBER OF TAXA 6
TOTAL INDIVIDUALS 94

SPOKANE RIVER BASIN

12411935 PRICHARD CREEK AT MOUTH AT PRICHARD, ID

LOCATION.--Lat 47°39'24", long 115°58'04", in SW¼NE¼NE¼ sec.29, T.50 N., R.4 E., Shoshone County, Prichard quad., Hydrologic Unit 17010301, on left bank at upstream side of county bridge, 1,000 ft upstream from mouth, 400 ft northeast of Prichard, and 193.3 mi upstream from mouth of Spokane River.

WATER-DISCHARGE RECORDS

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

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

REMARKS.--No estimated daily discharges. Records good except for discharges above 800 ft^3/s, which are fair. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,270 ft^3/s Apr. 14, 2000, gage height, 17.71 ft, from rating curve extended above 1,200 ft^3/s; minimum daily, 16 ft^3/s Nov. 2-5, 7-12, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,270 ft^3/s Apr. 14, gage height, 17.71 ft, from rating curve extended above 1,200 ft^3/s; minimum, 17 ft^3/s Oct. 7, 8, gage height, 13.59 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	47	247	110	73	197	327	500	335	98	34	22
2	19	46	255	106	155	205	344	676	310	94	33	22
3	19	43	235	97	200	210	403	774	304	91	33	22
4	18	45	206	95	206	233	540	761	309	93	32	22
5	18	44	187	90	190	287	774	639	328	87	31	22
6	18	52	172	82	173	346	670	516	337	84	31	23
7	18	54	157	78	159	352	500	438	311	85	30	23
8	21	55	137	81	150	329	412	393	297	79	29	23
9	23	52	126	81	155	304	402	400	286	74	29	24
10	27	49	118	78	164	280	504	433	264	70	28	24
11	31	47	113	77	177	270	694	405	239	66	28	25
12	30	48	145	75	182	252	858	362	251	63	27	26
13	29	83	235	72	178	239	1140	323	296	60	27	27
14	27	125	234	73	167	245	2680	304	299	58	27	27
15	26	117	223	73	159	235	1750	304	292	56	26	26
16	24	96	260	75	142	230	1170	364	273	54	26	25
17	22	85	317	78	130	225	1010	499	248	52	25	24
18	21	78	440	76	121	212	1040	582	231	50	25	23
19	21	73	463	74	113	221	1160	564	219	49	25	22
20	20	74	374	74	109	209	1080	539	200	47	24	22
21	19	73	303	75	107	196	1040	568	184	45	24	21
22	19	72	252	74	110	195	1200	610	171	44	23	21
23	19	67	217	72	119	304	1130	617	161	43	23	20
24	18	66	189	72	135	379	802	543	154	42	23	20
25	18	137	167	72	145	365	596	481	144	41	22	20
26	20	741	151	72	151	330	481	434	131	40	22	20
27	20	604	138	70	156	327	421	395	121	39	22	20
28	28	357	128	68	171	409	572	397	115	38	21	19
29	35	265	122	66	185	432	581	372	109	37	21	19
30	51	242	115	62	---	381	496	328	103	36	21	22
31	52	---	112	61	---	340	---	378	---	35	21	---
TOTAL	750	3937	6538	2409	4382	8739	24777	14899	7022	1850	813	676
MEAN	24.2	131	211	77.7	151	282	826	481	234	59.7	26.2	22.5
MAX	52	741	463	110	206	432	2680	774	337	98	34	27
MIN	18	43	112	61	73	195	327	304	103	35	21	19
AC-FT	1490	7810	12970	4780	8690	17330	49150	29550	13930	3670	1610	1340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	21.0	91.1	168	143	132	340	652	552	352	87.6	33.5	22.4
MAX	24.2	131	211	209	151	397	826	624	470	116	40.8	22.5
(WY)	2000	2000	2000	1999	2000	1999	2000	1999	1999	1999	1999	2000
MIN	17.8	51.0	126	77.7	112	282	478	481	234	59.7	26.2	22.3
(WY)	1999	1999	1999	2000	1999	2000	1999	2000	2000	2000	2000	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	86443		76792			
ANNUAL MEAN	237		210		216	
HIGHEST ANNUAL MEAN					222	1999
LOWEST ANNUAL MEAN					210	2000
HIGHEST DAILY MEAN	1730	May 25	2680	Apr 14	2680	Apr 14 2000
LOWEST DAILY MEAN	18	Oct 4	18	Oct 4	16	Nov 2 1998
ANNUAL SEVEN-DAY MINIMUM	18	Oct 1	18	Oct 1	16	Nov 2 1998
ANNUAL RUNOFF (AC-FT)	171500		152300		156600	
10 PERCENT EXCEEDS	613		500		553	
50 PERCENT EXCEEDS	138		112		114	
90 PERCENT EXCEEDS	23		22		20	

WATER-QUALITY RECORDS

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

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
NOV										
18...	0930	78	35	6.9	5.0	7.5	13	3.5	1.1	1.6
JAN										
05...	0800	91	31	7.1	-2.0	2.5	11	2.9	.95	--
FEB										
16...	1100	143	32	7.0	-1.0	3.5	11	2.8	.94	--
MAR										
22...	1420	189	33	7.3	16.5	6.0	11	3.0	.98	--
SEP										
18...	1050	23	37	6.9	19.5	13.0	12	3.3	1.0	1.6

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
NOV										
18...	--	--	--	5.9	<.3	<.1	11	<1	<1	--
JAN										
05...	--	--	--	--	--	--	--	<1	<1	--
FEB										
16...	--	--	--	--	--	--	--	<1	<1	--
MAR										
22...	--	--	--	--	--	--	--	<1	<1	--
SEP										
18...	15	.000	12	4.0	E.2	--	--	<1	<1	<1

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV									
18...	--	25.7	E8	<1	<1	1.9	2	27	25.4
JAN									
05...	--	E19.9	E9	<1	<1	1.4	1	30	25.9
FEB									
16...	--	<20.0	E5	<1	<1	1.3	<1	28	28.3
MAR									
22...	--	25.6	E6	<1	<1	1.2	1	30	26.6
SEP									
18...	<1	E20.0	<10	<1	<1	--	--	24	23.0

E Positive detection but below stated detection limit.

12411935 PRICHARD CREEK AT MOUTH AT PRICHARD, ID--Continued

COLLECTION METHODS.--Electrofishing; backpack (11A).

LENGTH OF REACH.--250 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--1.15 hours

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

BIOLOGICAL DATA, AUGUST 2000
FISH COLLECTION DATA

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Aug.8								
Cottidae (Sculpins)									
Cottus confusus									
(Shorthead sculpin)		160	83.8	35-126	1-39	NATIVE	INVERTIVORE	COLD	160-AA
Cottus rhotheus									
(Torrent sculpin)		1	0.5	109	26	NATIVE	INVERTIVORE	COLD	1-AA
Cyprinidae (Carps and minnows)									
Rhinichthys cataractae									
(Longnose dace)		9	4.7	85-140	8-36	NATIVE	INVERTIVORE	COLD	9-AA
Salmonidae (Trouts)									
Oncorhynchus clarki sp.									
(Cutthroat trout)		16	8.4	98-401	10-559	NATIVE	INVERTIVORE	COLD	16-AA
Salmo trutta									
(Brown trout)		2	1.0	55-60	2-3	INTRODUCED	INVERTIVORE	COLD	2-AA
Salvelinus fontinalis									
(Brook trout)		3	1.6	115-160	15-44	INTRODUCED	INVERTIVORE	COLD	3-AA

TOTAL NUMBER OF TAXA 6
TOTAL INDIVIDUALS 191

SPOKANE RIVER BASIN

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

LOCATION.--Lat 47°34'08", long 116°15'06", in NW¼SW¼NE¼ sec.30, T.49 N., R.2 E., Shoshone County, Hydrologic Unit 17010301, on left bank 200 ft downstream from county road bridge, 0.9 mi upstream from South Fork, 3.7 mi downstream from Little North Fork, and 168.7 mi upstream from mouth of Spokane River.

DRAINAGE AREA.--895 mi^2.

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 National Geodetic Vertical Datum of 1929. Sea level datum is 3.71 ft higher based on National Geodetic Survey adjustment in 1991. 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.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. No appreciable regulation or diversion above station.

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

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 5	2215	8,340	64.90	Apr. 14	2045	*23,800	*71.13

Minimum daily, 233 ft^3/s Sept. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	244	517	1730	1170	753	2420	3710	4820	2410	900	384	265
2	242	459	1740	1130	2700	2450	4010	5730	2140	867	373	282
3	240	400	1810	1020	3370	2460	4990	6800	2040	838	365	292
4	239	439	1610	990	2890	2720	6020	6630	1990	879	356	291
5	237	462	1470	963	2450	3720	7690	5870	1990	902	347	283
6	237	496	1380	878	2110	4700	7640	4950	1980	827	340	282
7	236	566	1330	836	1870	4600	5940	4300	1870	846	334	283
8	287	526	1170	891	1760	4090	4860	3890	1780	785	326	286
9	569	478	1080	990	1800	3660	4560	3750	1760	747	321	326
10	481	446	1030	910	1880	3280	5190	3990	1670	712	316	367
11	368	433	999	879	1930	3140	6780	3910	1580	680	317	450
12	318	451	1280	875	1940	2970	8150	3590	1680	653	310	382
13	295	877	3100	813	1870	2770	9390	3240	2130	629	305	321
14	283	1180	2900	839	1760	2790	18800	3070	1990	607	299	293
15	271	946	2510	879	1700	2790	20000	3050	2000	586	295	279
16	262	758	3440	894	1530	2720	13600	3310	1920	569	e280	270
17	255	665	3990	950	1420	2670	11100	3840	1810	554	e280	263
18	251	669	4990	909	1340	2470	10500	4160	1720	540	281	256
19	248	628	5540	859	1280	2600	10700	4040	1660	528	277	251
20	245	652	4320	834	1210	2530	10100	3780	1540	511	274	250
21	244	777	3350	882	1230	2370	9280	3680	1430	496	272	257
22	242	752	2670	900	1310	2280	9670	3730	1350	484	269	253
23	239	679	2220	861	1430	3350	9660	3730	1280	473	266	251
24	239	646	1920	807	1700	4420	7940	3410	1220	460	263	247
25	239	1610	1720	774	1800	4240	6300	3070	1190	451	260	244
26	290	5350	1550	777	1810	3800	5240	2810	1120	441	255	241
27	343	5430	1420	748	1820	3650	4580	2590	1060	429	252	238
28	480	3290	1300	705	1980	4420	5130	2430	1010	419	251	235
29	810	2280	1220	682	2260	4980	5770	2250	972	409	248	233
30	625	1870	1270	626	---	4460	5090	2100	933	399	249	318
31	518	---	1190	565	---	3930	---	2460	---	392	249	---
TOTAL	10077	34732	67249	26836	52903	103450	242390	118980	49225	19013	9214	8489
MEAN	325	1158	2169	866	1824	3337	8080	3838	1641	613	297	283
MAX	810	5430	5540	1170	3370	4980	20000	6800	2410	902	384	450
MIN	236	400	999	565	753	2280	3710	2100	933	392	248	233
AC-FT	19990	68890	133400	53230	104900	205200	480800	236000	97640	37710	18280	16840
CFSM	.36	1.29	2.42	.97	2.04	3.73	9.03	4.29	1.83	.69	.33	.32
IN.	.42	1.44	2.80	1.12	2.20	4.30	10.07	4.95	2.05	.79	.38	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2000, BY WATER YEAR (WY)

MEAN	388	981	1550	1466	2097	2651	5401	5139	1968	668	353	297
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	211	209	340	573	1924	1248	551	295	183	173
(WY)	1945	1953	1953	1979	1985	1955	1941	1992	1992	1940	1994	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1911 - 2000	
ANNUAL TOTAL	848620		742558			
ANNUAL MEAN	2325		2029		1911	
HIGHEST ANNUAL MEAN					3281	1974
LOWEST ANNUAL MEAN					599	1977
HIGHEST DAILY MEAN	11300	May 25	20000	Apr 15	50000	Jan 16 1974
LOWEST DAILY MEAN	236	Sep 25	233	Sep 29	108	Nov 30 1979
ANNUAL SEVEN-DAY MINIMUM	239	Oct 1	239	Oct 1	114	Jan 2 1977
ANNUAL RUNOFF (AC-FT)	1683000		1473000		1384000	
ANNUAL RUNOFF (CFSM)	2.60		2.27		2.13	
ANNUAL RUNOFF (INCHES)	35.27		30.86		29.00	
10 PERCENT EXCEEDS	5930		4830		5080	
50 PERCENT EXCEEDS	1460		1100		855	
90 PERCENT EXCEEDS	271		263		253	

e Estimated

SPOKANE RIVER BASIN

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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May to September 1998, May to September 1999, May to September 2000.

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum 21.9 °C July 27, 1998.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum 20.6 °C Aug. 1.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
NOV										
17...	0730	663	47	7.4	6.0	7.0	--	--	--	--
JAN										
06...	1030	880	41	6.7	1.0	2.0	--	--	--	--
FEB										
16...	0820	1550	39	7.5	.0	2.5	--	--	--	--
MAR										
28...	0805	4180	40	7.4	5.5	4.5	.5	11.7	97	K1
MAY										
10...	0945	4000	36	7.3	11.0	6.5	.4	11.3	100	29
JUN										
15...	0740	2010	41	7.3	15.0	9.5	.3	10.6	99	K18
JUL										
19...	0915	532	50	7.2	20.0	15.5	.7	11.5	123	K8
AUG										
08...	1515	327	52	7.8	32.0	19.4	.4	--	--	K3
SEP										
07...	1100	285	52	7.2	20.0	13.7	<.5	7.9	81	<1

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV										
17...	--	22	5.3	2.1	1.2	--	--	--	--	<.3
JAN										
06...	--	19	4.6	1.8	--	--	--	--	--	--
FEB										
16...	--	18	4.3	1.7	--	--	--	--	--	--
MAR										
28...	K1	16	3.9	1.5	--	--	--	--	--	--
MAY										
10...	K2	--	--	--	--	--	--	--	--	--
JUN										
15...	K8	--	--	--	--	--	--	--	--	--
JUL										
19...	46	--	--	--	--	--	--	--	--	--
AUG										
08...	<1	--	--	--	--	--	--	--	--	--
SEP										
07...	K1	23	5.6	2.1	1.3	.4	29	0	24	1.8

K Results based on counts outside ideal colony range.

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

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

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)
NOV										
17...	<.3	<.1	10	.029	<.002	E.08	<.008	.002	<1	<.1
JAN										
06...	--	--	--	.020	<.002	<.1	<.008	<.001	<1	<1
FEB										
16...	--	--	--	.012	<.002	E.09	<.008	.002	<1	<1
MAR										
28...	--	--	--	.006	.003	<.1	E.007	.001	<1	<1
MAY										
10...	--	--	--	.012	<.002	E.06	<.008	.002	--	--
JUN										
15...	--	--	--	.005	.006	<.1	E.004	<.001	--	--
JUL										
19...	--	--	--	<.005	<.002	<.1	<.008	<.001	--	--
AUG										
08...	--	--	--	.009	.003	E.06	<.008	.003	--	--
SEP										
07...	E.2	<.1	10	.013	<.002	<.1	E.005	.002	--	--

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
NOV										
17...	E20.9	<10	<1	<1	1.4	<1	4	3.8	--	--
JAN										
06...	E19.2	<10	<1	<1	1.1	<1	7	5.2	--	--
FEB										
16...	E19.3	<10	<1	<1	1.3	<1	5	5.4	--	--
MAR										
28...	64.3	E6	<1	<1	2.4	<1	7	5.6	3	34
MAY										
10...	--	--	--	--	--	--	--	--	4	43
JUN										
15...	--	--	--	--	--	--	--	--	2	11
JUL										
19...	--	--	--	--	--	--	--	--	1	1.4
AUG										
08...	--	--	--	--	--	--	--	--	<1	--
SEP										
07...	--	--	--	--	--	--	--	--	1	.77

E Positive detection but below stated detection limit.

SPOKANE RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, MAY TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	---	---	---
2	---	---	---	---	---	---
3	---	---	---	---	---	---
4	---	---	---	---	---	---
5	---	---	---	---	---	---
6	---	---	---	---	---	---
7	---	---	---	---	---	---
8	---	---	---	---	---	---
9	---	---	---	---	---	---
10	---	---	---	---	---	---
11	---	---	---	7.2	6.0	6.4
12	---	---	---	7.5	6.1	6.8
13	---	---	---	9.4	6.0	7.5
14	---	---	---	8.7	7.5	8.1
15	---	---	---	9.8	6.9	8.4
16	---	---	---	10.8	7.7	9.2
17	---	---	---	11.1	8.4	9.8
18	---	---	---	10.5	8.6	9.6
19	---	---	---	9.7	8.1	8.6
20	---	---	---	10.0	7.8	8.7
21	---	---	---	10.1	8.7	9.5
22	---	---	---	11.5	8.9	10.2
23	---	---	---	11.8	9.5	10.8
24	---	---	---	11.7	9.1	10.5
25	---	---	---	11.8	9.4	10.7
26	---	---	---	11.4	9.5	10.1
27	---	---	---	9.8	8.9	9.3
28	---	---	---	10.5	8.6	9.4
29	---	---	---	10.0	8.3	9.3
30	---	---	---	10.3	8.3	9.2
31	---	---	---	9.7	8.7	9.3
MONTH	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	11.2	7.8	9.3	17.2	14.0	15.5	20.6	16.7	18.5	15.4	14.5	15.0
2	11.4	9.4	10.5	17.0	13.4	15.2	20.2	16.2	18.3	14.6	13.5	14.0
3	13.1	9.7	11.3	15.6	12.9	13.7	20.1	16.2	18.2	16.1	13.1	14.3
4	13.4	10.6	12.1	13.1	11.4	12.2	20.4	16.5	18.3	15.6	13.7	14.6
5	12.8	11.1	11.9	14.0	11.2	12.6	20.2	16.2	18.2	14.6	13.2	13.7
6	13.4	10.9	12.1	14.3	12.3	13.3	20.2	16.4	18.3	14.0	12.9	13.4
7	14.3	11.2	12.7	16.8	12.5	14.4	20.2	16.2	18.1	15.6	12.8	14.0
8	13.7	11.4	12.2	15.6	13.4	14.7	20.2	15.9	18.0	14.5	12.8	13.5
9	11.4	10.3	10.7	17.3	13.4	15.1	20.4	16.1	18.1	12.8	11.8	12.4
10	10.3	9.4	9.8	17.6	13.4	15.4	19.6	16.5	18.1	12.6	11.8	12.2
11	10.0	8.7	9.4	18.1	13.9	15.9	19.9	16.4	18.0	14.9	12.2	13.3
12	9.8	9.4	9.6	18.4	14.2	16.3	18.9	14.8	16.9	15.7	12.9	14.2
13	11.7	9.4	10.4	18.8	14.9	16.8	18.9	14.8	16.8	16.8	13.7	15.0
14	11.2	10.1	10.4	18.4	14.9	16.8	18.9	14.6	16.7	17.0	13.7	15.2
15	11.8	9.4	10.5	18.6	14.9	16.8	18.6	14.8	16.6	16.5	14.3	15.4
16	13.1	9.8	11.4	18.4	14.3	16.4	18.8	14.3	16.5	16.8	14.2	15.4
17	13.9	10.6	12.1	18.9	14.6	16.8	18.4	14.3	16.4	17.2	14.5	15.7
18	12.9	11.2	12.0	18.3	15.1	16.6	18.8	14.9	16.7	15.9	14.3	15.1
19	12.8	10.9	11.8	19.1	14.9	16.9	17.2	14.9	16.1	15.9	13.9	14.7
20	14.3	10.6	12.2	19.4	15.4	17.4	17.6	13.7	15.5	14.5	12.6	13.2
21	15.1	11.4	13.0	19.7	15.4	17.6	17.8	13.7	15.6	12.8	11.1	12.1
22	15.9	12.5	14.0	18.9	15.9	17.5	18.1	13.9	15.9	12.0	9.4	10.6
23	14.8	12.5	13.7	19.6	15.6	17.5	18.3	14.2	16.1	12.2	9.1	10.6
24	13.9	12.0	12.6	19.4	15.3	17.3	18.1	15.1	16.5	12.6	9.5	11.0
25	15.4	11.1	13.0	19.6	15.4	17.5	18.6	14.9	16.7	12.6	9.8	11.3
26	16.5	12.5	14.3	19.6	15.4	17.5	17.5	14.8	16.2	12.9	9.8	11.4
27	16.8	12.9	14.8	19.6	15.6	17.5	17.2	14.3	15.6	12.9	10.0	11.5
28	17.3	13.4	15.2	19.9	15.6	17.6	17.2	13.2	15.1	12.8	10.5	11.6
29	16.7	13.7	15.2	20.4	16.1	18.2	16.4	13.2	15.0	12.0	10.9	11.4
30	17.3	13.5	15.4	20.2	16.5	18.4	18.1	14.5	15.9	12.2	11.5	11.8
31	---	---	---	19.9	16.7	18.2	16.4	14.3	15.4	---	---	---
MONTH	17.3	7.8	12.1	20.4	11.2	16.2	20.6	13.2	16.8	17.2	9.1	13.3

SPOKANE RIVER BASIN

12413040 SOUTH FORK COEUR D'ALENE RIVER ABOVE DEADMAN GULCH NEAR MULLAN, ID

LOCATION.--Lat 47°28'24", long 115°45'56", in SW¼SE¼SW¼ sec.25, T.48 N., R.5 E., Shoshone County, Mullan quad., Hydrologic Unit 17010302, on right bank 50 ft upstream from county road bridge, 150 ft upstream from Deadman Gulch, and 1.2 mi east of Mullan.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1998 to April 2000 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 3,400 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 466 ft^3/s May 26, 1999, gage height, 6.23 ft; minimum, 8.5 ft^3/s Oct. 21, 22, 30, 1998, gage height, 3.54 ft .

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period October 1999 to April 2000, 263 ft^3/s Apr. 14, gage height, 5.46 ft; minimum, 8.9 ft^3/s Oct. 25, gage height, 3.52 ft .

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	15	21	16	19	18	35	---	---	---	---	---
2	12	14	21	16	22	18	37	---	---	---	---	---
3	12	14	20	15	18	18	42	---	---	---	---	---
4	12	21	18	15	17	19	60	---	---	---	---	---
5	12	16	18	15	17	20	79	---	---	---	---	---
6	12	22	18	15	16	21	73	---	---	---	---	---
7	13	16	17	15	16	22	63	---	---	---	---	---
8	17	15	17	15	16	22	56	---	---	---	---	---
9	20	15	17	15	17	22	58	---	---	---	---	---
10	14	14	17	14	17	22	73	---	---	---	---	---
11	13	e15	17	15	17	22	93	---	---	---	---	---
12	13	16	21	15	17	21	102	---	---	---	---	---
13	13	28	21	14	16	20	145	---	---	---	---	---
14	13	20	20	17	16	23	211	---	---	---	---	---
15	13	18	19	16	16	22	160	---	---	---	---	---
16	12	17	23	15	16	21	132	---	---	---	---	---
17	12	17	23	14	e15	21	121	---	---	---	---	---
18	12	16	31	14	15	21	133	---	---	---	---	---
19	12	16	26	14	15	22	153	---	---	---	---	---
20	12	18	24	14	15	20	153	---	---	---	---	---
21	12	16	23	14	15	20	157	---	---	---	---	---
22	11	16	21	14	16	21	179	---	---	---	---	---
23	11	15	20	13	18	28	166	---	---	---	---	---
24	11	15	19	13	17	26	134	---	---	---	---	---
25	11	25	e18	14	17	26	107	---	---	---	---	---
26	14	50	e17	14	17	27	97	---	---	---	---	---
27	14	31	e17	13	17	30	92	---	---	---	---	---
28	30	24	e17	13	18	36	112	---	---	---	---	---
29	20	22	16	13	18	36	106	---	---	---	---	---
30	15	23	16	12	---	35	99	---	---	---	---	---
31	17	---	16	12	---	34	---	---	---	---	---	---
TOTAL	428	580	609	444	486	734	3228	---	---	---	---	---
MEAN	13.8	19.3	19.6	14.3	16.8	23.7	108	---	---	---	---	---
MAX	30	50	31	17	22	36	211	---	---	---	---	---
MIN	11	14	16	12	15	18	35	---	---	---	---	---
AC-FT	849	1150	1210	881	964	1460	6400	---	---	---	---	---

CAL YR 1999 TOTAL 17117 MEAN 46.9 MAX 380 MIN 11 AC-FT 33950

e Estimated

SPOKANE RIVER BASIN

12413040 SOUTH FORK COEUR D'ALENE RIVER ABOVE DEADMAN GULCH NEAR MULLAN, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1998 to March 2000 (discontinued).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
NOV									
15...	1400	16	134	7.8	9.0	6.0	52	15	3.9
JAN									
13...	0905	14	136	7.6	-3.5	0.0	57	16	4.3
FEB									
14...	1300	16	122	7.5	-.5	1.5	50	13	4.0
MAR									
21...	1520	20	145	7.7	10.0	4.0	58	15	4.9

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV									
15...	3.2	49	0	40	18	3.2	<.1	9.7	<1
JAN									
13...	--	--	--	--	--	--	--	--	<1
FEB									
14...	--	--	--	--	--	--	--	--	<1
MAR									
21...	--	--	--	--	--	--	--	--	<1

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV									
15...	<1	127	63	<1	5.0	198	211	10	13.5
JAN									
13...	<1	99	55	<1	3.8	236	262	17	19.4
FEB									
14...	<1	96	56	<1	1.6	190	181	6	10.9
MAR									
21...	<1	116	51	<1	6.6	161	164	12	19.4

SPOKANE RIVER BASIN

12413118 CANYON CREEK NEAR BURKE, ID

LOCATION.--Lat 47°31'32", long 115°48'00", in NE¼ sec.10, T.48 N., R.5 E, (unsurveyed, from USGS topograpic map), Shoshone County, Burke Quadrangle, Hydrologic Unit 17010302, 0.5 mi upstream from Gorge Gulch, and 0.8 mi northeast of Burke.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1998 to March 2000 (discontinued).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV												
23...	1035	12	22	7.2	0.0	2.0	9	2.4	.68	.9	<.3	<.3
JAN												
12...	1355	7.9	23	7.3	-3.0	.5	10	2.5	.79	--	--	--
FEB												
24...	0740	6.9	26	7.3	-0.2	2.0	10	2.8	.86	--	--	--
MAR												
22...	0900	8.9	27	7.5	3.0	2.0	11	2.9	.90	--	--	--

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV												
23...	<.1	7.4	<1	<1	<20	<10	<1	<1	<1	<1	9	8.4
JAN												
12...	--	--	<1	<1	<20	<10	<1	<1	<1	<1	12	7.8
FEB												
24...	--	--	<1	<1	<20	<10	<1	<1	<1	<1	7	7.3
MAR												
22...	--	--	<1	<1	<20	<10	<1	<1	<1	<1	9	8.9

COLLECTION METHODS.--Electrofishing; backpack (11A).

LENGTH OF REACH.--150 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.42 hours

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

BIOLOGICAL DATA, AUGUST 2000
FISH COLLECTION DATA

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Aug.21								
Cottidae (Sculpins)									
Cottus confusus (Shorthead sculpin)		107	87	42-112	1-17	NATIVE	INVERTIVORE	COLD	107-AA
Salmonidae (Trouts)									
Oncorhynchus clarki sp. (Cutthroat trout)		16	13	70-219	4-123	NATIVE	INVERTIVORE	COLD	16-AA

TOTAL NUMBER OF TAXA 2
TOTAL INDIVIDUALS 123

SPOKANE RIVER BASIN

12413123 CANYON CREEK AT WOODLAND PARK, ID

LOCATION.--Lat 47°29'19", long 115°53'22", in SE¼SE¼SW¼ sec.24, T.48 N., R.4 E., Shoshone County, Hydrologic Unit 17010302, at bridge crossing 1.9 mi upsteam from South Fork Coeur d'Alene River.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1998 to March 2000 (discontinued).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV												
23...	0830	19	76	7.6	.5	3.0	34	9.6	2.4	1.3	11	<.3
JAN												
12...	1140	17	79	7.6	-1.0	0.0	36	10	2.6	--	--	--
FEB												
24...	1025	23	90	7.6	5.0	3.0	35	10	2.5	--	--	--
MAR												
22...	0710	23	95	7.5	2.5	3.0	37	11	2.6	--	--	--

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV												
23...	<.1	7.6	10	9.8	78.3	17	14	27.4	59.7	62	1650	1500
JAN												
12...	--	--	10	8.8	108	18	13	31.2	74.8	74	1330	1340
FEB												
24...	--	--	12	12.3	91.5	21	21	38.9	72.0	73	1830	1780
MAR												
22...	--	--	16	16.0	83.5	22	23	42.0	89.1	93	2550	2580

SPOKANE RIVER BASIN

12413125 CANYON CREEK ABOVE MOUTH AT WALLACE, ID

LOCATION.--Lat 47°28'21", long 115°54'49", in NW¼NE¼NW¼ sec.35, T.48 N., R.4 E., Shoshone County, Wallace quad., Hydrologic Unit 17010302, on left bank under freeway overpass, 65 ft upstream from mouth of South Fork Coeur d'Alene River, 187 mi upstream from mouth of Spokane River, and 0.5 mi east of Wallace Post Office.

WATER-DISCHARGE RECORDS

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

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 574 ft^3/s May 25, 1999, gage height, 21.43 ft; minimum daily, 9.0 ft^3/s Dec. 20, 21, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 313 ft^3/s Apr. 14; minimum daily, 13 ft^3/s Oct. 18-25, Sept. 26-29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	18	34	21	26	26	45	132	140	55	23	17
2	15	16	35	20	29	27	50	173	133	53	22	17
3	14	16	32	19	24	28	61	188	135	51	22	17
4	14	22	29	20	23	30	80	199	143	49	21	16
5	14	18	29	19	23	34	99	173	167	46	21	16
6	14	23	28	18	23	37	86	143	179	45	21	16
7	14	20	27	18	22	36	70	126	162	43	21	16
8	19	19	25	19	22	35	64	115	160	41	20	16
9	24	19	24	18	25	34	67	117	146	40	20	16
10	16	19	24	18	25	32	86	117	133	38	20	20
11	15	19	24	18	26	32	109	109	116	37	19	18
12	15	20	30	18	26	30	130	99	117	36	19	16
13	15	35	30	17	25	29	191	94	121	35	19	15
14	14	30	28	20	24	32	313	92	123	33	19	15
15	14	28	27	18	24	30	232	94	125	32	18	15
16	14	26	30	21	22	29	180	111	118	32	18	15
17	14	27	32	19	22	28	159	152	109	31	18	14
18	14	25	48	18	21	28	171	189	104	30	18	14
19	14	24	42	18	20	29	196	186	101	30	17	14
20	13	25	35	18	20	26	199	183	95	29	17	14
21	13	23	31	18	20	25	206	207	89	28	17	14
22	13	22	28	18	21	26	249	234	86	28	17	14
23	13	21	26	17	24	38	243	244	83	27	17	14
24	13	21	24	17	25	38	181	226	79	26	16	14
25	13	34	23	17	25	37	139	204	73	26	16	14
26	18	65	23	17	25	36	118	184	68	26	16	13
27	17	50	22	17	26	40	110	172	65	25	16	13
28	32	38	e20	16	27	55	140	183	62	25	16	13
29	26	33	e22	e14	26	53	135	169	60	24	16	13
30	19	34	e20	e15	---	46	125	151	58	24	16	24
31	20	---	e20	e20	---	43	---	158	---	23	16	---
TOTAL	498	790	872	561	691	1049	4234	4924	3350	1068	572	463
MEAN	16.1	26.3	28.1	18.1	23.8	33.8	141	159	112	34.5	18.5	15.4
MAX	32	65	48	21	29	55	313	244	179	55	23	24
MIN	13	16	20	14	20	25	45	92	58	23	16	13
AC-FT	988	1570	1730	1110	1370	2080	8400	9770	6640	2120	1130	918

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	14.6	22.5	24.8	20.9	22.0	42.3	111	160	152	60.2	24.1	16.3
MAX	16.1	26.3	28.1	23.7	23.8	50.7	141	161	193	85.9	29.7	17.1
(WY)	2000	2000	2000	1999	2000	1999	2000	1999	1999	1999	1999	1999
MIN	13.2	18.6	21.5	18.1	20.1	33.8	81.6	159	112	34.5	18.5	15.4
(WY)	1999	1999	1999	2000	1999	2000	1999	2000	2000	2000	2000	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	22351		19072			
ANNUAL MEAN	61.2		52.1		55.9	
HIGHEST ANNUAL MEAN					59.8	1999
LOWEST ANNUAL MEAN					52.1	2000
HIGHEST DAILY MEAN	423	May 25	313	Apr 14	423	May 25 1999
LOWEST DAILY MEAN	13	Oct 20	13	Oct 20	9.0	Dec 20 1998
ANNUAL SEVEN-DAY MINIMUM	13	Oct 19	13	Oct 19	11	Dec 19 1998
ANNUAL RUNOFF (AC-FT)	44330		37830		40530	
10 PERCENT EXCEEDS	151		144		148	
50 PERCENT EXCEEDS	29		26		26	
90 PERCENT EXCEEDS	16		15		14	

e Estimated

SPOKANE RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to October 1972, October 1998 to March 2000 (discontinued).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV												
23...	0635	19	96	7.6	.5	2.5	41	12	2.8	1.5	18	<.3
JAN												
12...	1010	19	99	7.5	-1.0	0.0	43	12	3.1	--	--	--
FEB												
24...	1145	25	114	7.6	5.5	3.5	43	12	3.1	--	--	--
MAR												
21...	1115	25	119	7.3	12.5	5.5	47	13	3.3	--	--	--

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV												
23...	<.1	8.2	19	18	49	10	21	30	60	63	2850	2540
JAN												
12...	--	--	20	18	90	12	19	42	74	74	2680	2730
FEB												
24...	--	--	21	22	56	13	26	39	94	94	3100	3020
MAR												
21...	--	--	26	25	55	16	33	47	130	136	3770	3670

SPOKANE RIVER BASIN

12413127 EAST FORK NINEMILE CREEK ABOVE MOUTH NEAR BLACKCLOUD, ID

LOCATION.--Lat 47°33'47", long 115°53'33", in NW¼NE¼NW¼ sec.13, T.48 N., R.4 E., Shoshone County, Hydrologic Unit 17010302, at county road crossing 0.3 mi upstream from Ninemile Creek, and 0.8 mi northeast of Blackcloud.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1998 to March 2000 (discontinued).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV												
23...	1245	2.1	101	7.0	1.5	2.0	31	10	1.4	2.4	35	<.3
JAN												
11...	1115	2.7	93	7.2	-.5	0.0	27	8.7	1.2	--	--	--
FEB												
23...	1200	3.4	89	7.2	2.8	2.6	25	8.3	1.2	--	--	--
MAR												
21...	0940	4.2	91	7.0	6.5	2.0	27	8.6	1.2	--	--	--

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV												
23...	<.1	15	38	37	<20	<10	71	93	44	45	6390	6090
JAN												
11...	--	--	38	36	<20	<10	71	94	35	38	5980	6630
FEB												
23...	--	--	33	35	22	<10	80	108	35	36	5480	5440
MAR												
21...	--	--	36	36	<20	<10	92	121	44	47	5950	5800

SPOKANE RIVER BASIN

12413130 NINEMILE CREEK ABOVE MOUTH AT WALLACE, ID

LOCATION.--Lat 47°28'46", long 115°55'10", in NW¼NW¼SW¼ sec.26, T.48 N., R.4 E., Shoshone County, Wallace quad., Hydrologic Unit 17010302, on left bank 0.45 mi upstream from mouth at South Fork Coeur d'Alene River, and 0.55 mi northeast of Wallace Post Office.

WATER-DISCHARGE RECORDS

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

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 157 ft^3/s Apr. 14, 2000, gage height, 14.01 ft; minimum daily, 3.0 ft^3/s Dec. 20, 21 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 157 ft^3/s Apr. 14, gage height, 14.01 ft; minimum daily, 3.3 ft^3/s Sept. 28, 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	4.8	11	8.1	8.2	14	30	52	31	11	5.4	4.7
2	4.1	4.5	11	8.0	11	14	32	58	30	11	5.3	4.8
3	4.1	4.4	10	7.4	11	15	39	59	28	11	5.3	4.5
4	4.1	6.0	8.7	e7.5	11	16	50	59	28	11	5.2	4.3
5	4.0	4.9	8.4	7.3	11	20	63	56	29	10	5.1	4.2
6	4.0	6.1	8.4	7.9	11	25	59	47	30	11	5.1	4.4
7	4.0	5.3	8.1	7.7	10	27	42	41	28	11	5.0	4.2
8	5.9	4.9	7.6	7.5	10	26	37	38	28	9.8	4.9	4.3
9	6.9	4.8	7.3	e7.0	11	27	35	37	27	9.2	4.8	4.3
10	4.9	4.7	7.2	6.8	12	24	45	37	25	8.6	4.8	5.8
11	4.6	4.6	7.2	6.7	13	24	56	36	23	8.2	4.7	5.2
12	4.4	5.1	9.7	e6.5	13	23	56	33	24	8.0	4.6	4.4
13	4.1	9.5	11	6.3	13	22	68	30	23	7.8	4.5	4.1
14	4.1	7.0	11	e7.0	12	24	130	30	22	7.5	4.5	4.0
15	4.0	6.0	11	6.9	12	22	103	30	22	7.7	4.5	3.9
16	3.9	5.4	12	7.5	11	23	85	33	21	7.5	4.5	3.8
17	3.9	5.9	13	7.3	11	22	78	42	20	7.3	4.4	3.8
18	3.8	5.5	21	7.0	9.6	21	84	50	19	7.1	4.4	3.7
19	3.8	5.1	24	6.9	9.3	22	92	49	19	6.8	4.4	3.6
20	3.8	5.7	21	7.0	9.0	20	83	48	18	6.7	4.4	3.8
21	3.8	5.3	18	7.0	9.2	19	77	45	17	6.4	4.2	3.8
22	3.8	5.0	15	6.9	9.4	20	91	56	16	6.4	4.2	3.5
23	3.8	4.8	13	7.0	11	29	84	58	15	6.3	4.2	3.5
24	3.7	5.0	12	6.7	12	31	62	55	15	6.1	4.1	3.5
25	3.7	12	11	6.7	13	29	56	51	14	6.1	4.0	3.4
26	5.4	26	9.9	6.7	13	28	50	44	13	5.9	4.0	3.4
27	5.1	20	9.2	6.6	13	30	44	41	13	5.8	4.0	3.4
28	8.8	15	8.5	e6.5	14	38	57	38	12	5.7	4.0	3.3
29	7.7	12	8.4	e5.5	14	38	56	35	12	5.6	3.9	3.3
30	5.4	12	8.1	e5.5	---	33	59	33	12	5.5	4.2	7.1
31	5.5	---	8.2	e7.0	---	30	---	36	---	5.5	4.0	---
TOTAL	143.3	227.3	349.9	216.4	327.7	756	1903	1357	634	243.5	140.6	124.0
MEAN	4.62	7.58	11.3	6.98	11.3	24.4	63.4	43.8	21.1	7.85	4.54	4.13
MAX	8.8	26	24	8.1	14	38	130	59	31	11	5.4	7.1
MIN	3.7	4.4	7.2	5.5	8.2	14	30	30	12	5.5	3.9	3.3
AC-FT	284	451	694	429	650	1500	3770	2690	1260	483	279	246

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	4.04	6.51	9.58	8.50	10.6	29.3	52.8	45.9	30.4	10.8	5.78	4.34
MAX	4.62	7.58	11.3	10.0	11.3	34.3	63.4	48.1	39.7	13.7	7.03	4.55
(WY)	2000	2000	2000	1999	2000	1999	2000	1999	1999	1999	1999	1999
MIN	3.45	5.45	7.87	6.98	9.86	24.4	42.2	43.8	21.1	7.85	4.54	4.13
(WY)	1999	1999	1999	2000	1999	2000	1999	2000	2000	2000	2000	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	7097.9		6422.7			
ANNUAL MEAN	19.4		17.5		18.2	
HIGHEST ANNUAL MEAN					18.9	1999
LOWEST ANNUAL MEAN					17.5	2000
HIGHEST DAILY MEAN	119	May 25	130	Apr 14	130	Apr 14 2000
LOWEST DAILY MEAN	3.7	Oct 24	3.3	Sep 28	3.0	Dec 20 1998
ANNUAL SEVEN-DAY MINIMUM	3.8	Oct 19	3.4	Sep 23	3.2	Oct 21 1998
ANNUAL RUNOFF (AC-FT)	14080		12740		13200	
10 PERCENT EXCEEDS	47		45		46	
50 PERCENT EXCEEDS	10		9.2		9.3	
90 PERCENT EXCEEDS	4.5		4.1		4.0	

e Estimated

SPOKANE RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to October 1972, October 1998 to March 2000 (discontinued).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV												
23...	1420	4.7	158	8.0	1.0	4.0	65	18	4.7	2.2	31	1.3
JAN												
11...	1330	6.2	153	7.8	.5	2.0	69	18	5.5	--	--	--
FEB												
23...	0905	11	155	7.5	--	3.5	67	18	5.4	--	--	--
MAR												
21...	1110	18	156	7.7	6.5	4.5	71	19	5.9	--	--	--

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV												
23...	<.1	14	25	24	29	E6	33	48	51	53	3940	3580
JAN												
11...	--	--	19	18	37	13	29	44	41	42	2900	2810
FEB												
23...	--	--	16	17	43	<10	27	44	35	36	2520	2570
MAR												
21...	--	--	14	14	54	E9	34	54	37	39	2210	2190

E Positive detection but below stated detection limit.

SPOKANE RIVER BASIN

12413140 PLACER CREEK AT WALLACE, ID

LOCATION.--Lat 47°27' 47", long 115°56'10", in SW¼NE¼SW¼ sec.34, T.48 N., R.4 E., Shoshone County, Wallace quad., Hydrologic Unit 17010302, on right bank about 500 ft upstream from county road bridge, 0.3 mi downstream from West Fork, 0.4 mi south of Wallace city limits, and at mile 1.0.

DRAINAGE AREA.--14.9 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1967 to September 1997, October 1998 to April 2000 (discontinued).

REVISED RECORDS.--WDR-ID-93-2: 1974 (M).

GAGE.--Water-stage recorder. Elevation of gage is 2,840 ft above sea level, from topographic map. Prior to Oct. 1, 1995, at datum 10.00 ft lower.

REMARKS.--No estimated daily discharges. Records fair. Station equipment includes satellite telemetry. Water for city of Wallace is diverted above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,200 ft^3/s Feb. 9, 1996, gage height, 14.81 ft, from floodmark; maximum gage height, 15.40 ft, Nov. 30, 1995, backwater from debris; minimum, 0.27 ft^3/s Jan. 28, 1979, gage height, 0.90 ft, datum then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1964, estimated at 1,300 ft^3/s by Idaho Department of Highways on basis of observed depths in concrete flume downstream. Flood in December 1933 reported slightly higher than 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period October 1999 to April 2000, 434 ft^3/s Apr. 14, gage height, 12.48 ft: minimum daily 4.8 ft^3/s Oct. 24, 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	8.8	24	17	22	28	41	---	---	---	---	---
2	5.3	7.2	25	16	39	28	52	---	---	---	---	---
3	5.2	6.7	23	15	33	28	68	---	---	---	---	---
4	5.2	14	21	15	31	31	89	---	---	---	---	---
5	5.1	9.2	20	14	27	33	107	---	---	---	---	---
6	5.2	16	20	13	25	35	89	---	---	---	---	---
7	5.2	12	18	13	23	34	74	---	---	---	---	---
8	12	9.7	17	14	23	32	67	---	---	---	---	---
9	12	9.3	16	14	27	32	71	---	---	---	---	---
10	6.8	9.0	16	13	28	31	87	---	---	---	---	---
11	6.2	8.8	15	13	28	31	105	---	---	---	---	---
12	6.1	9.9	25	12	27	30	119	---	---	---	---	---
13	5.9	25	36	12	25	30	200	---	---	---	---	---
14	6.0	17	29	16	25	32	353	---	---	---	---	---
15	5.7	13	26	14	23	32	246	---	---	---	---	---
16	5.6	11	32	15	22	32	173	---	---	---	---	---
17	5.7	11	38	15	21	31	144	---	---	---	---	---
18	5.3	10	69	14	20	31	151	---	---	---	---	---
19	5.2	9.4	58	14	19	32	165	---	---	---	---	---
20	5.2	14	38	14	19	30	152	---	---	---	---	---
21	5.1	12	32	14	19	29	149	---	---	---	---	---
22	5.0	11	28	14	20	30	172	---	---	---	---	---
23	4.9	10	25	13	23	37	145	---	---	---	---	---
24	4.8	10	24	13	25	39	106	---	---	---	---	---
25	4.8	29	23	13	24	37	90	---	---	---	---	---
26	9.3	99	21	13	24	36	81	---	---	---	---	---
27	7.8	62	20	12	25	40	81	---	---	---	---	---
28	22	34	19	12	27	57	97	---	---	---	---	---
29	17	27	18	12	28	52	89	---	---	---	---	---
30	8.7	26	18	12	---	42	83	---	---	---	---	---
31	11	---	17	12	---	39	---	---	---	---	---	---
TOTAL	224.6	551.0	811	423	722	1061	3646	---	---	---	---	---
MEAN	7.25	18.4	26.2	13.6	24.9	34.2	122	---	---	---	---	---
MAX	22	99	69	17	39	57	353	---	---	---	---	---
MIN	4.8	6.7	15	12	19	28	41	---	---	---	---	---
AC-FT	445	1090	1610	839	1430	2100	7230	---	---	---	---	---
CFSM	.49	1.23	1.76	.92	1.67	2.30	8.16	---	---	---	---	---
IN.	.56	1.38	2.02	1.06	1.80	2.65	9.10	---	---	---	---	---

CAL YR 1999 TOTAL 16506.0 MEAN 45.2 MAX 326 MIN 4.8 AC-FT 32740 CFSM 3.04 IN. 41.21

12413140 PLACER CREEK AT WALLACE, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1980, October 1998 to March 2000 (discontinued).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
NOV									
24...	0635	10	78	8.0	0.0	3.5	41	12	2.5
JAN									
12...	0740	12	81	7.7	-1.5	.5	43	13	2.7
FEB									
23...	1345	26	86	7.8	3.0	4.0	41	12	2.6
MAR									
21...	1325	25	96	7.6	7.5	4.5	45	13	2.9

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV									
24...	1.1	--	--	--	<.3	<.3	<.1	8.4	<1
JAN									
12...	--	--	--	--	--	--	--	--	<1
FEB									
23...	--	--	--	--	--	--	--	--	<1
MAR									
21...	--	53	0	44	--	--	--	--	<1

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV									
24...	<1	<20	<10	<1	<1	1.1	<1	1	1.3
JAN									
12...	<1	<20	<10	<1	<1	<1	<1	4	2.1
FEB									
23...	<1	<20	<10	2	1.5	<1	<1	3	1.5
MAR									
21...	<1	E18.8	<10	3	<1	<1	<1	--	1.9

E Positive detection but below stated detection limit.

SPOKANE RIVER BASIN

12413150 SOUTH FORK COEUR D'ALENE RIVER AT SILVERTON, ID

LOCATION.--Lat 47°29'30", long 115°57'15", in SE¼NE¼SW¼ sec.21, T.48 N., R.4 E., Shoshone County, Wallace quad., Hydrologic Unit 17010302, on right bank 30 ft upstream from county road bridge, at the off ramp of U.S. Highway I-90 at Silverton, 700 ft downstream from Lake Creek, and at mile 17.4.

DRAINAGE AREA.--108 mi^2. Area at site used prior to September 1, 1976, 103 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1967 to September 1986, October 1986 to March 1987 (discharge measurements only), April 1987 to September 1988, October 1998 to April 2000 (discontinued).

GAGE.--Water-stage recorder. Prior to September 1988, nonrecording and crest-stage gages. Datum of gage is 2,617.10 ft above sea level, (levels by Idaho Department of Transportation). Prior to September 1, 1976, at site 1,100 ft upstream at different datum. September 1976 to June 7, 1978, at datum 1 ft higher.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,300 ft^3/s Jan. 16, 1974, gage height, 10.80 ft; minimum daily, 19 ft^3/s Jan. 5, 1988; minimum gage height, 2.85 ft, Oct. 7, 8, Dec. 31, 1974 (site and datum then in use).

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period October 1999 to April 2000, 1,850 ft^3/s Apr. 14, gage height, 7.88 ft; minimum daily, 55 ft^3/s Oct. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	83	137	99	116	150	241	---	---	---	---	---
2	58	78	142	97	176	152	263	---	---	---	---	---
3	59	77	129	90	152	156	305	---	---	---	---	---
4	58	105	118	92	142	170	401	---	---	---	---	---
5	56	86	113	87	134	191	530	---	---	---	---	---
6	56	108	113	83	128	206	470	---	---	---	---	---
7	55	94	108	83	121	204	375	---	---	---	---	---
8	76	87	99	88	121	197	335	---	---	---	---	---
9	97	85	96	88	136	189	344	---	---	---	---	---
10	74	84	96	82	138	182	425	---	---	---	---	---
11	70	83	96	81	141	182	545	---	---	---	---	---
12	68	88	139	80	139	173	653	---	---	---	---	---
13	66	153	166	78	136	168	962	---	---	---	---	---
14	66	122	142	94	131	188	1660	---	---	---	---	---
15	64	109	135	88	128	178	1210	---	---	---	---	---
16	63	101	156	95	118	179	936	---	---	---	---	---
17	64	101	173	90	112	172	835	---	---	---	---	---
18	63	96	265	86	108	168	879	---	---	---	---	---
19	61	92	243	84	104	176	979	---	---	---	---	---
20	61	102	202	83	104	161	952	---	---	---	---	---
21	61	96	174	84	107	154	961	---	---	---	---	---
22	60	91	153	82	110	158	1130	---	---	---	---	---
23	60	88	139	80	127	221	1040	---	---	---	---	---
24	60	89	128	79	134	225	800	---	---	---	---	---
25	60	158	120	79	131	222	662	---	---	---	---	---
26	78	345	114	79	132	215	573	---	---	---	---	---
27	76	247	108	77	139	227	536	---	---	---	---	---
28	139	179	103	75	148	280	669	---	---	---	---	---
29	113	149	101	72	150	277	642	---	---	---	---	---
30	86	148	97	69	---	252	587	---	---	---	---	---
31	93	---	98	75	---	236	---	---	---	---	---	---
TOTAL	2180	3524	4203	2599	3763	6009	20900	---	---	---	---	---
MEAN	70.3	117	136	83.8	130	194	697	---	---	---	---	---
MAX	139	345	265	99	176	280	1660	---	---	---	---	---
MIN	55	77	96	69	104	150	241	---	---	---	---	---
AC-FT	4320	6990	8340	5160	7460	11920	41460	---	---	---	---	---
CFSM	.65	1.09	1.26	.78	1.20	1.79	6.45	---	---	---	---	---
IN.	.75	1.21	1.45	.90	1.30	2.07	7.20	---	---	---	---	---

CAL YR 1999 TOTAL 100120 MEAN 274 MAX 1920 MIN 55 AC-FT 198600 CFSM 2.54 IN. 34.49

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1998 to March 2000 (discontinued).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV												
22...	1405	93	143	7.9	2.0	4.0	56	15	4.4	4.5	19	5.3
JAN												
11...	0920	82	149	7.9	-1.5	1.0	62	17	4.9	--	--	--
FEB												
23...	0710	125	157	7.5	2.5	3.0	60	16	4.8	--	--	--
MAR												
21...	0720	161	156	7.6	--	2.0	62	17	4.9	--	--	--

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV												
22...	<.1	8.6	7	6.9	44	10	8	17	39	37	1130	955
JAN												
11...	--	--	7	6.8	50	11	8	13	51	49	1060	989
FEB												
23...	--	--	7	7.3	85	E7	7	15	57	49	1080	1090
MAR												
21...	--	--	7	7.2	56	E6	9	16	60	53	1210	1100

E Positive detection but below stated detection limit.

COLLECTION METHODS.--Electrofishing; backpack (11A).

LENGTH OF REACH.--200 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.67 hours.

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

BIOLOGICAL DATA, AUGUST 2000
FISH COLLECTION DATA

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Aug. 22								
Salmonidae (Trouts)									
Oncorhynchus clarki sp. (Cutthroat trout)		21	67.7	50-227	2-171	NATIVE	INVERTIVORE	COLD	21-AA
Oncorhynchus mykiss sp. (Rainbow trout)		7	22.6	42-85	1-6	NATIVE	INVERTIVORE	COLD	7-AA
Salvelinus fontinalis (Brook trout)		3	9.7	74-215	5-118	INTRODUCED	INVERTIVORE	COLD	3-AA

TOTAL NUMBER OF TAXA 3
TOTAL INDIVIDUALS 31

SPOKANE RIVER BASIN

12413190 MOON CREEK ABOVE MOUTH AT ELK CREEK, ID

LOCATION.--Lat 47°32'02", long 116°03'28", in NW¼SW¼SE¼ sec.3, T.48 N., R.3 E., Shoshone County, Hydrologic Unit 17010302, at bridge crossing at Elk Creek, and 0.1 mi upstream from South Fork Coeur d' Alene River.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1998 to March 2000 (discontinued).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV												
24...	0900	2.5	94	7.6	4.0	5.5	37	8.4	3.9	2.9	22	1.3
JAN												
11...	1500	4.7	71	7.5	-1.0	3.0	28	6.3	2.9	--	--	--
FEB												
22...	1330	12	64	7.2	9.0	5.0	24	5.3	2.5	--	--	--
MAR												
20...	1415	21	57	7.3	6.5	5.5	21	4.7	2.2	--	--	--

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV												
24...	<.1	18	<1	<1	173	<10	<1	5.0	9.3	2	119	117
JAN												
11...	--	--	<1	<1	E19.1	<10	<1	<1	1.4	<1	81	74
FEB												
22...	--	--	<1	<1	36	<10	<1	1.1	2.3	<1	54	56
MAR												
20...	--	--	<1	<1	40	<10	<1	1.1	2.3	1	47	44

E Positive detection but below stated detection limit.

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 SW¼SW¼SW¼ sec.4, T.48 N., R.3 E., Shoshone County, Hydrologic Unit 17010302, on left bank 5 ft downstream from county road bridge at Elizabeth Park, 0.1 mi downstream from Montgomery Creek, 1.5 mi downstream from Elk Creek School, 1.5 mi upstream from Kellogg, and at mile 9.1

WATER-DISCHARGE RECORDS

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

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,600 ft^3/s Feb. 9, 1996, gage height, 35.50 ft; minimum, 34 ft^3/s Nov. 24, 1993, gage height, 25.07 ft.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 14	0600	*2,850	*30.29	No other peak greater than base discharge.			

Minimum, 56 ft^3/s Oct. 18, gage height, 23.87 ft, (result of diversion during channel reconstruction upstream); minimum daily, 68 ft^3/s Sept 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	113	234	172	199	360	475	893	768	256	108	85
2	77	101	245	169	508	357	516	1140	711	245	107	88
3	77	97	228	155	449	363	613	1230	704	240	106	87
4	76	147	208	157	385	418	776	1290	719	240	103	84
5	74	117	197	149	331	496	1010	1120	770	227	102	83
6	74	157	193	141	295	530	871	954	786	226	101	84
7	74	138	185	139	274	496	684	849	736	216	99	82
8	99	121	167	149	271	457	601	786	713	204	97	85
9	141	115	162	150	306	424	602	809	668	198	96	88
10	95	112	161	140	330	392	715	842	615	189	95	102
11	86	109	160	138	334	391	917	783	550	181	96	99
12	82	116	229	137	319	370	1100	708	582	174	94	87
13	79	251	335	131	298	352	1510	651	647	168	93	83
14	79	194	280	154	281	385	2600	629	617	164	91	83
15	76	165	264	160	268	369	1980	647	599	160	90	80
16	75	148	316	181	241	369	1610	748	558	156	88	77
17	75	148	375	194	229	355	1420	936	514	151	88	76
18	74	137	610	185	219	340	1450	1060	487	149	87	75
19	72	127	582	177	209	358	1590	1040	465	145	87	76
20	72	149	446	173	206	329	1530	1020	431	139	88	76
21	73	140	357	172	210	313	1520	1100	408	135	85	79
22	73	127	302	164	219	314	1700	1200	391	134	83	75
23	73	121	268	156	265	482	1580	1230	373	131	81	75
24	72	120	243	152	308	522	1230	1120	357	128	80	73
25	72	320	224	150	301	501	999	1010	337	125	79	73
26	92	734	210	147	295	465	862	940	315	122	80	72
27	97	496	195	141	299	475	794	895	299	119	80	70
28	202	327	184	136	326	581	986	922	287	117	79	69
29	184	262	180	132	355	580	953	846	276	115	78	68
30	122	252	172	125	---	518	857	768	265	113	80	104
31	128	---	173	133	---	476	---	888	---	110	79	---
TOTAL	2821	5661	8085	4759	8530	13138	34051	29054	15948	5177	2800	2438
MEAN	91.0	189	261	154	294	424	1135	937	532	167	90.3	81.3
MAX	202	734	610	194	508	581	2600	1290	786	256	108	104
MIN	72	97	160	125	199	313	475	629	265	110	78	68
AC-FT	5600	11230	16040	9440	16920	26060	67540	57630	31630	10270	5550	4840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

MEAN	85.4	181	225	229	339	423	763	892	572	208	105	78.4
MAX	153	580	865	513	1307	722	1135	2026	1133	393	147	104
(WY)	1996	1996	1996	1997	1996	1995	2000	1997	1997	1999	1999	1997
MIN	53.2	54.6	65.8	67.9	70.2	258	426	459	189	97.6	61.6	52.7
(WY)	1988	1988	1993	1988	1989	1988	1992	1994	1992	1994	1994	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1987 - 2000	
ANNUAL TOTAL	156303		132462			
ANNUAL MEAN	428		362		336	
HIGHEST ANNUAL MEAN					564	1997
LOWEST ANNUAL MEAN					178	1994
HIGHEST DAILY MEAN	2550	May 25	2600	Apr 14	7400	Feb 9 1996
LOWEST DAILY MEAN	72	Oct 19	68	Sep 29	36	Nov 24 1993
ANNUAL SEVEN-DAY MINIMUM	72	Oct 19	71	Sep 23	45	Sep 27 1994
ANNUAL RUNOFF (AC-FT)	310000		262700		243600	
10 PERCENT EXCEEDS	1040		890		835	
50 PERCENT EXCEEDS	245		205		171	
90 PERCENT EXCEEDS	86		79		69	

SPOKANE RIVER BASIN

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

WATER-QUALITY RECORDS

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

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV												
22...	1215	127	188	7.8	3.5	5.5	63	17	5.2	9.6	43	4.5
JAN												
06...	0745	144	174	7.5	-5.0	2.0	61	16	5.1	--	--	--
FEB												
14...	1540	277	139	6.9	2.0	4.0	51	13	4.3	--	--	--
MAR												
20...	1225	332	139	7.7	10.5	6.0	53	14	4.3	--	--	--

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV												
22...	<.1	9.5	7	7.2	54	11	5	10	54	53	1070	910
JAN												
06...	--	--	6	6.0	46	14	4	8.2	52	52	963	864
FEB												
14...	--	--	5	4.9	57	E7	3	8.6	41	37	683	692
MAR												
20...	--	--	5	5.5	60	E7	4	11	40	35	751	724

E Positive detection, but below stated detection limit.

SPOKANE RIVER BASIN

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

LOCATION.--Lat 47°32'52", long 116°08'14", in SE¼NE¼SE¼, sec.36, T.49 N., R.2 E., Hydrologic Unit 17010302,in Shoshone County, on left bank 1200 ft. downstream from Bunker Ave. bridge, 0.3 miles downstream from Jackass Creek, 1.0 mi northwest of Kellogg city center, and at mile 6.7.

DRAINAGE AREA.--194 mi^2.

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.

INSTRUMENTATION.--Water-quality data recorder since March 8 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 20.5 °C Aug. 26, 1999, July 19-20, 2000; minimum, 0.0°C on Jan. 30-31, 2000.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 213 microsiemens/cm Oct. 22, 1999; minimum recorded daily mean, 43 microsiemens/cm May 25, 1999.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 20.5 °C July 19-20; minimum, 0.0°C on Jan. 30-31.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 213 microsiemens/cm Oct. 22; minimum recorded daily mean, 55 microsiemens/cm May 23.

REMARKS.--Missing data due to equipment malfunction.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.0	6.5	7.5	5.0	5.5	5.0	2.5	2.0	---	---	6.0	4.0
2	11.5	5.5	7.0	4.0	5.5	4.0	2.5	2.0	---	---	6.0	3.5
3	11.5	5.5	7.5	4.0	4.5	3.0	3.0	2.0	---	---	6.5	4.5
4	12.5	6.0	8.0	4.5	3.0	2.0	3.0	2.0	---	---	5.5	4.5
5	12.5	7.0	5.5	3.5	4.0	2.0	3.5	2.5	5.0	3.5	6.5	4.5
6	12.0	8.5	8.5	5.5	5.0	3.5	3.5	2.0	5.0	3.5	5.0	4.0
7	11.0	9.5	8.0	6.0	4.5	4.0	4.0	2.5	5.0	3.5	6.5	4.0
8	11.0	10.0	7.5	5.5	4.5	3.5	3.5	3.0	5.0	3.5	6.0	4.0
9	10.5	8.5	9.0	7.0	4.0	3.5	3.0	1.0	5.0	3.0	6.5	4.0
10	10.5	7.0	8.5	7.5	4.0	3.5	2.5	1.0	4.0	2.0	6.5	4.0
11	11.0	8.5	8.5	6.5	4.0	3.0	3.0	2.0	3.0	1.5	5.5	4.0
12	11.5	9.5	10.5	8.0	4.5	4.0	2.5	1.0	4.5	2.5	6.0	3.5
13	12.5	9.0	10.0	9.0	4.0	3.5	3.0	1.5	4.5	3.0	6.5	4.0
14	10.5	8.0	9.0	7.0	3.5	3.0	3.5	2.0	4.0	3.0	6.5	4.5
15	9.5	6.5	7.5	6.0	4.0	3.5	3.0	2.0	4.0	2.5	6.5	3.5
16	9.0	4.5	8.0	6.0	5.5	4.0	3.5	2.0	4.5	2.0	5.0	3.5
17	8.0	5.0	7.5	7.0	5.0	4.5	4.0	2.0	3.5	1.0	4.5	3.5
18	9.5	4.5	8.0	5.5	5.0	4.0	3.0	1.5	3.5	1.0	6.0	3.5
19	9.5	4.5	7.0	5.5	4.0	4.0	3.0	1.5	4.0	.5	6.5	3.5
20	10.0	5.0	7.0	6.0	5.0	4.0	3.0	1.5	4.5	.5	6.5	3.0
21	10.0	5.0	6.0	4.5	5.0	4.5	2.5	1.5	5.0	2.5	7.5	3.0
22	10.0	5.5	5.5	4.5	5.0	4.5	3.5	2.5	6.0	3.5	9.0	3.5
23	10.0	5.5	5.5	4.5	5.0	3.5	3.0	1.0	5.0	4.0	6.5	4.0
24	9.5	7.0	5.5	5.0	3.5	2.5	3.5	1.5	5.5	3.5	7.5	3.5
25	9.5	6.5	5.5	5.0	3.0	2.0	3.0	2.5	5.0	3.0	6.0	3.5
26	9.5	8.0	6.0	5.0	2.5	1.5	3.5	2.5	5.5	3.0	8.0	4.0
27	8.5	6.5	5.5	5.0	2.5	2.0	3.5	2.5	5.5	4.0	9.0	4.0
28	8.5	7.5	5.5	4.5	2.0	1.5	4.0	2.5	5.5	4.0	6.0	4.5
29	8.0	7.0	6.0	4.0	2.5	1.5	2.5	.0	5.5	3.5	6.0	4.0
30	10.0	7.5	6.5	5.5	2.5	1.5	2.0	.0	---	---	8.0	4.0
31	8.5	6.0	---	---	2.5	1.0	---	---	---	---	8.5	3.5
MONTH	12.5	4.5	10.5	3.5	5.5	1.0	---	---	---	---	9.0	3.0

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

SPOKANE RIVER BASIN

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

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	170	148	154	---	136	118	74	77	101	---	179
2	183	179	145	153	---	135	112	66	79	103	---	181
3	181	191	148	155	---	134	103	62	78	104	---	182
4	182	180	154	159	---	132	94	61	75	104	---	183
5	185	186	152	164	133	124	84	65	70	107	---	185
6	190	171	153	171	142	121	89	70	69	109	---	183
7	199	172	148	172	148	124	99	74	71	111	---	186
8	185	178	145	172	147	128	104	76	72	114	---	187
9	159	181	148	163	143	130	103	75	74	116	---	188
10	175	183	152	162	137	133	94	75	77	118	---	178
11	176	185	153	165	135	134	83	77	80	121	---	176
12	177	184	147	164	139	135	77	81	81	124	---	187
13	178	154	135	169	141	136	69	85	80	128	---	191
14	178	162	146	177	142	134	57	85	80	130	---	192
15	179	160	154	173	143	137	64	83	78	131	---	194
16	179	163	147	163	152	133	70	78	80	133	---	191
17	178	175	135	162	153	135	72	69	82	134	---	188
18	179	165	124	164	153	137	71	63	83	136	---	186
19	179	172	122	164	158	135	66	63	84	139	---	190
20	180	171	130	163	155	138	66	64	88	140	---	189
21	190	184	137	162	154	139	65	60	90	---	---	187
22	213	177	143	163	149	139	61	57	92	---	---	193
23	204	183	148	162	143	122	61	55	95	---	---	193
24	194	188	151	159	143	118	68	58	94	---	184	191
25	189	148	149	163	137	120	73	61	94	---	185	187
26	176	116	149	166	138	122	80	62	95	---	185	189
27	170	125	149	169	139	122	85	66	98	---	184	190
28	151	136	154	171	137	112	75	66	104	---	183	189
29	156	139	157	172	139	111	72	66	109	---	185	184
30	176	142	159	171	---	115	76	69	104	---	184	173
31	172	---	157	---	---	118	---	72	---	---	183	---
MEAN	181	167	146	---	---	129	80	69	84	---	---	186
MAX	213	191	159	---	---	139	118	85	109	---	---	194
MIN	151	116	122	---	---	111	57	55	69	---	---	173

SPOKANE RIVER BASIN

12413290 GOVERNMENT GULCH NEAR MOUTH AT SMELTERVILLE, ID

LOCATION.--Lat 47°32'42", long 116°09'59", in SW¼SW¼SE¼ sec.35, T.49 N., R.2 E., Shoshone County, Hydrologic Unit 17010302, 0.3 mi upstream from South Fork Coeur d'Alene River at Smelterville.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1998 to March 2000 (discontinued).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV												
22...	1030	1.6	162	7.1	3.0	4.0	49	14	3.3	1.9	60	.7
JAN												
10...	1405	2.0	142	6.8	1.5	2.0	44	13	3.0	--	--	--
FEB												
22...	1110	3.3	124	6.1	11.5	6.0	38	11	2.6	--	--	--
MAR												
20...	1030	6.5	115	6.9	4.0	6.0	34	9.9	2.4	--	--	--

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV												
22...	<.1	15	344	331	<20	<10	6	8.5	839	875	10300	9040
JAN												
10...	--	--	240	233	21	<10	12	25	645	753	8460	8420
FEB												
22...	--	--	210	210	54	<10	13	27	596	564	7000	6870
MAR												
20...	--	--	170	168	E18.7	<10	12	20	396	429	5550	5650

E Positive detection, but below stated detection limit.

SPOKANE RIVER BASIN

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

LOCATION.--Lat. 47°32'54", long. 116°10'28", in SE¼NW¼SW¼ sec.35, T.49 N., R.2 E., Hydrologic Unit 17010302, in Shoshone County, on left bank at county road bridge, 0.2 miles downstream from Government Gulch, 0.3 miles north of Smelterville, and at mile 5.1.

DRAINAGE AREA.--202 mi^2.

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.

INSTRUMENTATION.--Water-quality data recorder since March 18, 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 23.0 °C July 29, 2000; minimum, 0.0 °C Jan. 30- 31, 2000.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 419 microsiemens/cm Oct. 22, 1999; minimum recorded daily mean, 60 microsiemens/cm May 25, June 17, 1999.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 23.0 °C July 29; minimum, 0.0 °C on Jan. 30-31.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 419 microsiemens/cm Oct. 22; minimum recorded daily mean, 70 microsiemens/cm April 14.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR SEPTEMBER 1999 to OCTOBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.5	7.0	8.0	5.0	5.5	5.5	2.5	2.0	4.0	1.5	6.0	4.0
2	12.0	6.0	7.5	4.0	5.5	4.0	2.5	2.0	4.0	2.5	6.0	4.0
3	12.0	6.0	7.5	4.5	4.5	3.0	3.0	2.0	5.0	2.5	6.5	4.5
4	13.0	6.5	8.0	4.5	3.5	2.0	3.0	2.0	4.0	2.0	6.0	5.0
5	12.5	7.5	5.5	3.5	3.5	2.5	3.5	2.5	5.0	3.5	7.0	4.5
6	12.5	9.0	8.5	5.5	5.0	3.5	3.0	2.0	5.0	3.5	5.5	4.5
7	11.0	10.0	8.5	6.5	4.5	4.0	4.0	2.5	5.5	4.0	7.0	4.0
8	11.0	10.5	7.5	5.5	4.5	3.5	4.0	3.0	5.5	3.5	6.5	4.0
9	11.0	8.5	9.0	7.0	4.0	3.5	3.0	1.0	5.0	3.0	6.5	4.0
10	10.5	7.5	8.5	7.5	4.0	3.5	2.5	1.0	4.5	2.0	6.5	4.5
11	11.0	8.5	8.5	7.0	4.0	2.5	3.0	1.5	3.0	2.0	5.5	4.5
12	12.0	9.5	10.5	8.0	4.5	4.0	2.5	1.5	4.5	2.5	6.0	4.0
13	12.5	9.0	10.0	9.0	4.0	3.5	3.0	1.5	5.5	3.0	7.0	4.5
14	11.0	8.0	9.5	7.0	3.5	3.0	4.0	2.5	4.0	3.0	7.0	4.5
15	10.0	7.0	7.5	6.5	4.0	3.5	3.5	2.0	4.0	3.0	7.5	4.0
16	9.0	4.5	8.0	6.5	5.5	4.0	3.5	2.5	5.5	2.0	5.0	4.0
17	8.5	5.0	7.5	7.0	5.0	4.5	4.0	2.0	3.5	1.5	4.5	4.0
18	10.0	4.5	8.5	5.5	5.0	4.5	3.5	1.5	3.5	1.0	6.0	4.0
19	10.0	5.0	7.0	5.5	4.5	4.0	3.5	1.5	4.5	.5	6.5	4.0
20	10.5	5.0	7.0	5.5	5.0	4.0	3.0	1.5	5.0	1.0	7.0	3.0
21	10.5	5.5	5.5	5.0	5.5	4.5	2.5	1.5	5.0	3.0	7.5	3.0
22	10.5	6.0	6.0	4.5	5.0	4.5	3.5	2.5	6.0	4.0	9.5	3.5
23	10.0	6.0	6.0	5.0	5.0	3.5	3.0	1.0	5.0	4.0	7.0	4.5
24	10.0	7.0	5.5	5.0	3.5	2.5	4.0	1.5	5.5	3.5	8.0	4.0
25	9.5	6.5	5.5	5.5	3.5	2.0	3.0	2.5	5.5	3.0	6.0	3.5
26	10.0	8.0	6.0	5.0	3.0	2.0	3.5	2.5	5.5	3.0	8.5	4.0
27	8.5	6.5	6.0	5.0	3.0	2.0	4.0	2.5	6.0	4.0	9.5	4.0
28	8.5	7.5	6.0	4.5	2.5	2.0	4.5	2.5	5.5	4.5	6.5	4.5
29	8.5	7.0	6.0	4.0	2.5	2.0	3.0	.5	5.5	3.5	6.5	4.5
30	10.0	7.5	6.5	5.5	2.5	2.0	2.0	.0	---	---	8.5	4.0
31	9.0	6.5	---	---	2.5	1.0	2.0	.0	---	---	9.0	3.5
MONTH	13.0	4.5	10.5	3.5	5.5	1.0	4.5	.0	6.0	.5	9.5	3.0

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

SPOKANE RIVER BASIN

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

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	255	250	231	247	189	179	104	111	183	285	350
2	326	297	224	266	171	175	172	109	124	156	290	291
3	302	314	212	226	200	176	156	99	123	162	292	245
4	356	282	238	239	173	188	135	95	120	190	296	321
5	367	284	219	280	160	182	118	94	110	192	306	350
6	406	249	224	255	206	167	122	106	109	197	310	347
7	414	237	250	273	224	168	127	114	112	188	304	353
8	335	282	242	309	231	188	148	117	114	205	308	349
9	242	288	245	262	198	192	160	118	119	207	260	338
10	273	311	225	277	186	208	145	115	125	211	233	322
11	333	306	189	266	203	186	115	120	131	215	311	311
12	340	309	247	277	186	199	99	126	136	221	313	335
13	341	240	221	270	203	213	95	138	131	228	322	301
14	347	214	231	287	190	205	70	133	123	233	318	271
15	361	248	235	258	199	209	84	130	109	198	319	357
16	304	253	222	269	243	194	95	120	111	209	321	363
17	291	258	196	258	250	216	101	103	129	243	320	360
18	352	267	168	257	234	183	95	100	133	246	335	359
19	357	265	163	251	196	192	90	101	138	256	300	360
20	367	253	173	239	242	220	92	101	145	256	253	306
21	400	254	186	246	251	218	92	94	143	257	323	265
22	419	327	202	271	232	224	88	87	152	222	325	361
23	319	324	199	217	228	186	88	85	117	193	324	362
24	316	265	227	283	201	164	102	89	167	265	399	366
25	358	248	185	273	182	139	111	94	162	270	405	358
26	333	173	218	234	196	185	123	90	161	271	298	298
27	309	194	259	263	199	187	139	88	165	270	323	273
28	255	177	273	312	192	169	121	105	173	271	370	356
29	278	226	254	296	187	148	118	114	177	274	364	381
30	310	255	272	237	---	159	111	115	179	278	360	328
31	247	---	235	307	---	178	---	97	---	279	325	---
MEAN	333	262	222	264	207	187	116	106	135	227	317	331
MAX	419	327	273	312	251	224	179	138	179	279	405	381
MIN	242	173	163	217	160	139	70	85	109	156	233	245

SPOKANE RIVER BASIN

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

LOCATION.--Lat 47°26'25", long 116°10'27", in SW¼NE¼NW¼ sec.11, T.47 N., R.2 E., Shoshone County, Hydrologic Unit 17010302, on right bank, 20 ft downstream from forest road culvert, 1,200 ft upstream from Gilbert Creek, and approximately 7 mi southeast of Pinehurst.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1999 to September 2000.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period December 1999 to September 2000, 181 ft³/s Apr. 13. 14, gage height, 6.02 ft; minimum daily, 0.53 ft³/s Sept. 25-29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	e5.0	3.9	7.9	11	13	37	17	3.3	1.2	.80
2	---	---	e6.5	3.6	20	10	19	51	16	3.2	1.1	.76
3	---	---	e6.0	3.2	13	10	24	51	16	3.1	1.1	.71
4	---	---	e5.5	3.4	10	12	36	49	16	3.3	1.0	.69
5	---	---	e5.0	3.1	8.5	16	44	38	16	2.9	1.0	.68
6	---	---	e5.0	3.0	7.3	15	25	29	15	2.8	1.0	.68
7	---	---	4.5	3.0	6.5	13	21	26	13	2.7	.97	.65
8	---	---	4.1	3.1	6.7	12	19	24	12	2.6	.93	.74
9	---	---	4.0	3.1	10	11	22	24	10	2.4	.92	.75
10	---	---	3.7	2.8	11	9.7	27	29	9.5	2.3	.92	.92
11	---	---	3.4	2.8	9.9	9.4	40	26	8.3	2.2	.94	.78
12	---	---	11	2.8	8.8	8.9	49	22	12	2.1	.87	.66
13	---	---	15	2.7	7.7	8.6	83	20	17	2.1	.86	.63
14	---	---	9.3	3.9	7.2	9.6	109	19	18	2.0	.83	.62
15	---	---	7.8	4.1	6.3	9.3	65	23	15	2.0	.79	.61
16	---	---	12	5.4	5.5	9.3	53	31	13	1.9	.78	.60
17	---	---	15	6.5	5.2	8.6	47	39	11	1.8	.77	.59
18	---	---	24	5.9	4.9	8.1	49	37	9.5	1.8	.76	.58
19	---	---	17	5.2	4.6	8.1	54	33	8.3	1.7	.77	.56
20	---	---	13	4.9	4.6	7.4	51	33	7.3	1.7	.76	.58
21	---	---	10	4.6	4.9	6.9	58	34	6.7	1.6	.74	.61
22	---	---	8.4	4.2	6.1	7.1	74	36	6.1	1.6	.73	.55
23	---	---	7.2	3.9	10	12	57	33	5.5	1.5	.72	.55
24	---	---	6.3	3.8	11	12	44	27	5.1	1.5	.70	.54
25	---	---	5.7	3.7	9.9	11	33	24	4.8	1.4	.68	.53
26	---	---	5.0	3.6	8.7	11	27	22	4.4	1.4	.69	.53
27	---	---	4.6	3.3	9.3	12	29	20	4.1	1.3	.68	.53
28	---	---	4.4	3.2	11	18	48	21	3.9	1.3	.67	.53
29	---	---	4.2	3.1	12	15	40	18	3.6	1.3	.66	.53
30	---	---	4.0	3.1	---	13	32	16	3.5	1.3	.68	1.1
31	---	---	3.9	3.0	---	12	---	17	---	1.2	.67	---
TOTAL	---	---	240.5	115.9	248.5	337.0	1292	909	307.6	63.3	25.89	19.59
MEAN	---	---	7.76	3.74	8.57	10.9	43.1	29.3	10.3	2.04	.84	.65
MAX	---	---	24	6.5	20	18	109	51	18	3.3	1.2	1.1
MIN	---	---	3.4	2.7	4.6	6.9	13	16	3.5	1.2	.66	.53
AC-FT	---	---	477	230	493	668	2560	1800	610	126	51	39

e Estimated

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March to September 2000.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: March to September 2000.
SPECIFIC CONDUCTANCE: March to September 2000.

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

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 14.5 °C Aug. 1.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 26 microsiemens/cm Sep. 13-20; minimum recorded daily mean, 9 microsiemens/cm April 14, July 6, 16.

WATER TEMPERATURE, DEGREES CELSIUS, APRIL TO SEPTEMBER 2000

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

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

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

SPOKANE RIVER BASIN

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

LOCATION.--Lat 47°28'36", long 116°13'14", in NW¼NW¼SW¼ sec.28, T.48 N., R.2 E., Shoshone County, Hydrologic Unit 17010302, on right bank at upstream side of Bureau of Land Management road bridge, 80 ft upstream from Nabob Creek, 1.2 mi upstream from confluence with Pine Creek, and 4.3 mi south of Pinehurst.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1999 to September 2000.

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

REMARKS.--No estimated daily discharges. Records fair except for daily discharge above 400 ft^3/s, which is poor. Station equipment includes satellite telemetry.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 517 ft^3/s Apr. 14; minimum daily, 5.7 ft^3/s Oct. 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	11	33	24	46	83	69	124	65	21	9.9	8.1
2	6.4	9.8	42	23	175	78	90	178	61	20	9.7	8.3
3	6.4	9.9	39	20	121	75	140	196	59	20	9.6	7.9
4	6.4	17	32	21	89	87	202	183	59	21	9.4	7.6
5	6.4	12	30	19	69	117	258	142	61	19	9.1	7.5
6	6.3	24	30	18	58	118	160	112	59	21	9.1	7.6
7	6.1	18	28	18	52	101	106	100	52	18	9.0	7.5
8	8.5	15	25	21	53	86	88	92	49	17	8.8	7.8
9	10	14	25	21	72	76	95	95	46	17	8.7	8.3
10	7.2	13	24	19	83	67	138	106	43	16	8.6	9.8
11	6.7	14	24	19	75	67	192	99	38	16	8.7	9.4
12	6.5	17	66	19	66	63	238	83	50	15	8.3	7.8
13	6.5	33	113	18	57	60	371	75	62	15	8.2	7.4
14	6.3	24	62	24	53	67	517	73	61	14	8.1	7.2
15	6.0	18	51	30	48	67	321	82	54	14	8.0	7.1
16	6.1	16	71	46	42	67	264	107	48	14	7.9	7.0
17	6.0	16	94	63	41	63	232	135	44	13	7.8	6.9
18	6.1	14	172	54	38	59	249	136	40	13	7.7	6.8
19	6.0	14	119	46	36	63	272	123	37	13	7.7	6.8
20	6.0	21	76	41	36	58	240	117	33	12	7.7	6.8
21	6.0	19	58	38	37	54	234	121	31	12	7.6	7.2
22	6.0	17	47	33	43	54	279	130	29	12	7.5	6.8
23	6.0	15	41	30	71	84	237	123	28	12	7.4	6.6
24	5.7	16	35	29	89	94	161	106	26	11	7.3	6.7
25	5.9	55	32	28	78	85	123	94	25	11	7.2	6.6
26	8.4	158	30	27	68	75	101	84	23	11	7.2	6.5
27	9.4	84	28	25	66	80	98	77	22	11	7.2	6.5
28	27	48	27	24	78	104	154	78	21	11	7.1	6.4
29	21	37	26	22	88	97	138	71	21	10	7.0	6.4
30	13	35	25	22	---	77	114	64	22	10	7.3	10
31	12	---	24	22	---	68	---	71	---	10	7.2	---
TOTAL	252.7	814.7	1529	864	1928	2394	5881	3377	1269	450	252.0	223.3
MEAN	8.15	27.2	49.3	27.9	66.5	77.2	196	109	42.3	14.5	8.13	7.44
MAX	27	158	172	63	175	118	517	196	65	21	9.9	10
MIN	5.7	9.8	24	18	36	54	69	64	21	10	7.0	6.4
AC-FT	501	1620	3030	1710	3820	4750	11660	6700	2520	893	500	443

WTR YR 2000 TOTAL 19234.7 MEAN 52.6 MAX 517 MIN 5.7 AC-FT 38150

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1999 to September 2000.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1999 to September 2000.
SPECIFIC CONDUCTANCE: October 1999 to September 2000.

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

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 20.0 °C Aug. 1; minimum, 0.0°C on Jan. 29-30.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 58 microsiemens/cm Oct. 31, Sep. 19; minimum recorded daily mean, 18 microsiemens/cm April 14, 22-23.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10.5	8.0	6.5	5.0	5.0	4.5	2.0	1.5	2.5	1.0	4.5	3.5
2	10.0	7.5	6.0	5.0	4.5	4.0	2.0	1.5	3.5	2.0	4.5	3.5
3	10.0	7.0	6.5	5.0	4.0	3.0	2.5	1.5	3.5	2.5	5.0	3.5
4	10.0	7.5	6.5	4.5	3.0	2.5	2.5	1.0	3.5	2.0	4.5	4.0
5	10.5	8.0	5.5	4.0	4.0	2.5	2.5	2.0	4.0	3.0	5.0	4.0
6	10.5	8.5	6.5	5.0	4.0	3.0	2.5	1.5	4.0	3.0	4.5	4.0
7	10.0	9.0	6.5	5.0	4.0	3.0	3.0	2.0	4.0	3.0	5.0	4.0
8	10.0	9.5	6.0	5.0	4.0	3.0	2.5	2.0	4.0	3.0	5.0	3.5
9	10.5	8.5	7.0	5.5	3.5	3.0	2.0	1.0	4.0	2.5	5.0	3.5
10	9.5	8.0	7.0	6.0	3.5	3.0	2.0	1.0	3.0	2.0	6.0	3.5
11	10.0	8.5	7.0	6.0	3.5	3.0	2.0	1.5	3.0	2.0	5.0	3.5
12	10.0	9.0	8.0	6.5	3.5	3.5	2.0	1.0	3.5	2.5	5.0	3.0
13	11.0	9.0	8.0	7.0	4.0	3.5	2.0	1.5	4.0	2.5	5.0	3.5
14	9.5	8.0	7.0	6.0	3.5	3.0	2.5	1.5	3.0	2.5	5.5	3.5
15	9.5	7.0	6.5	5.5	4.0	3.5	2.0	1.5	3.5	2.5	5.0	3.0
16	---	---	6.5	5.5	4.5	4.0	2.5	1.0	3.0	1.5	4.5	3.5
17	---	---	6.5	6.0	4.5	3.5	3.0	2.0	2.5	1.0	4.0	3.5
18	8.0	6.0	6.5	5.5	4.5	4.5	2.5	1.5	2.5	1.0	5.0	3.5
19	---	---	6.5	5.5	4.5	4.0	2.0	1.5	2.5	.5	4.5	3.0
20	---	---	6.0	5.0	4.5	4.0	2.5	1.5	2.5	.5	4.5	2.5
21	8.0	6.0	5.5	4.5	4.5	4.0	2.0	1.5	3.5	2.0	5.0	2.5
22	8.0	6.0	5.5	4.5	4.5	4.0	2.5	2.0	4.0	2.5	6.5	3.0
23	---	---	5.5	4.5	4.0	3.0	2.0	1.0	4.0	3.0	5.0	3.5
24	---	---	5.0	4.5	3.5	2.5	2.5	1.5	4.0	3.0	6.0	3.5
25	8.0	6.5	5.0	4.5	3.5	2.0	2.5	2.0	4.0	2.5	5.0	3.5
26	8.0	7.0	5.5	5.0	2.5	2.0	2.5	2.0	4.0	3.0	6.5	3.5
27	7.5	6.5	5.5	4.5	2.5	2.0	2.5	2.0	4.5	3.5	6.5	3.5
28	7.5	7.0	5.0	4.0	2.0	1.5	3.0	1.0	4.5	3.5	5.0	4.0
29	7.0	6.5	5.0	4.0	2.0	1.5	1.0	.0	4.5	3.5	5.0	4.0
30	8.5	7.0	5.5	5.0	2.0	1.5	.5	.0	---	---	6.0	3.5
31	7.5	6.0	---	---	2.0	1.0	1.5	.5	---	---	6.5	3.0
MONTH	---	---	8.0	4.0	5.0	1.0	3.0	.0	4.5	.5	6.5	2.5

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

SPOKANE RIVER BASIN

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

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25 DEGREES CESIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

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

BIOLOGICAL DATA, AUGUST 2000
FISH COLLECTION DATA

COLLECTION METHODS.--Electrofishing; backpack (11A).

LENGTH OF REACH.--150 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.22 hours.

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

COMMENTS.--One *Dicamptodon* tenebrosus (Pacific giant) salamander was collected.

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Aug. 11								
Salmonidae (Trouts)									
Oncorhynchus clarki sp. (Cutthroat trout)		3	15.8	54-55	2	NATIVE	INVERTIVORE	COLD	3-AA
Salvelinus fontinalis (Brook trout)		16	84.2	70-255	3-182	INTRODUCED	INVERTIVORE	COLD	16-AA
TOTAL NUMBER OF TAXA	2								
TOTAL INDIVIDUALS	19								

SPOKANE RIVER BASIN

12413445 PINE CREEK BELOW AMY GULCH NEAR PINEHURST, ID

LOCATION.--Lat 47°30'57", long 116°14'24", in SW¼SW¼SW¼ sec.8, T.48 N., R.2 E., Shoshone County, Kellog West quad., Hydrologic Unit 17010302, on left bank, 3.2 mi upstream from South Fork Coeur d'Alene River and 1.0 mi south of Pinehurst city limits.

WATER-DISCHARGE RECORDS

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

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,360 ft³/s Apr. 14, 2000, gage height, 8.88 ft; minimum daily, 12 ft³/s Oct 26 to Nov. 5, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,360 ft³/s Apr. 14, gage height, 8.88 ft; minimum daily, 15 ft³/s Oct. 5-7, 24-26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	43	135	73	118	241	209	365	245	64	24	17
2	16	39	166	70	565	224	253	525	233	62	24	18
3	16	38	167	63	379	213	364	595	234	60	23	18
4	16	43	132	63	276	239	492	565	234	60	23	18
5	15	39	114	60	216	311	639	450	243	57	23	18
6	15	50	107	56	178	321	463	354	235	57	22	18
7	15	55	100	53	154	281	321	311	213	53	22	18
8	16	55	88	57	151	245	265	293	208	49	22	18
9	18	51	82	65	184	218	266	301	196	47	21	18
10	19	48	77	63	210	193	346	334	176	45	21	19
11	18	45	75	60	202	193	492	317	151	44	21	20
12	18	46	170	58	181	185	597	278	191	42	21	20
13	18	85	362	55	160	173	854	253	277	40	21	19
14	19	88	225	61	147	188	1990	247	264	39	20	19
15	19	74	194	83	134	190	1210	272	231	37	20	19
16	19	63	287	128	115	191	810	346	207	36	20	19
17	19	60	335	187	108	181	689	446	185	35	20	19
18	18	56	543	163	101	170	707	460	166	34	19	19
19	17	52	413	138	93	183	763	424	149	33	19	18
20	17	56	270	120	90	169	697	411	131	32	19	18
21	16	60	205	109	92	155	669	423	119	32	19	17
22	16	62	165	96	104	148	770	455	110	31	19	17
23	16	59	138	86	172	229	672	433	102	30	18	17
24	15	56	119	81	225	264	482	375	96	30	18	17
25	15	231	107	78	209	244	373	332	88	29	18	17
26	15	857	97	74	188	217	313	303	82	28	18	16
27	17	479	89	69	184	220	297	279	77	27	18	16
28	33	258	84	65	223	281	434	287	73	27	18	16
29	35	185	80	61	251	281	411	261	70	26	18	16
30	33	154	76	59	---	241	340	233	67	25	17	16
31	43	---	74	59	---	212	---	265	---	25	17	---
TOTAL	598	3487	5276	2513	5410	6801	17188	11193	5053	1236	623	535
MEAN	19.3	116	170	81.1	187	219	573	361	168	39.9	20.1	17.8
MAX	43	857	543	187	565	321	1990	595	277	64	24	20
MIN	15	38	74	53	90	148	209	233	67	25	17	16
AC-FT	1190	6920	10460	4980	10730	13490	34090	22200	10020	2450	1240	1060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN	16.4	88.4	134	137	173	262	401	394	210	49.4	22.8	16.6
MAX	19.3	116	170	213	187	325	573	535	375	75.7	29.9	18.0
(WY)	2000	2000	2000	1999	2000	1999	2000	1999	1999	1999	1999	1999
MIN	13.6	60.7	64.0	81.1	154	219	266	286	85.9	32.6	18.4	14.0
(WY)	1999	1999	1998	2000	1998	2000	1998	1998	1998	1998	1998	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	73596		59913			
ANNUAL MEAN	202		164		180	
HIGHEST ANNUAL MEAN					196	1999
LOWEST ANNUAL MEAN					164	2000
HIGHEST DAILY MEAN	1390	May 25	1990	Apr 14	1990	Apr 14 2000
LOWEST DAILY MEAN	15	Oct 5	15	Oct 5	12	Oct 26 1998
ANNUAL SEVEN-DAY MINIMUM	16	Oct 1	16	Oct 1	12	Oct 26 1998
ANNUAL RUNOFF (AC-FT)	146000		118800		130400	
10 PERCENT EXCEEDS	546		376		422	
50 PERCENT EXCEEDS	109		88		92	
90 PERCENT EXCEEDS	18		18		16	

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.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 15.7 °C Aug, 2, 4, 6, 8, 10, 18, 20, 23, 26, 1999; minimum recorded, 1.5 °C on Feb, 19, 2000.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 42 microsiemens/cm Oct. 29, 2000; minimum recorded daily mean, 15 microsiemens/cm May 24, 30, June 16-17, 1999.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 15.5 °C July 20-21, 28-29, 31, Aug. 1-9, 23-25; minimum recorded, 1.5 °C on Feb. 19.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 42 microsiemens/cm Oct. 29; minimum recorded daily mean, 16 microsiemens/cm April 22.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV												
22...	0900	63	33	7.3	1.0	8.0	12	3.1	1.1	1.1	5.4	<.3
JAN												
10...	1105	66	28	7.0	-1.5	4.0	10	2.7	.92	--	--	--
FEB												
22...	0920	100	29	7.3	7.0	4.0	10	2.6	.90	--	--	--
MAR												
20...	0830	160	28	6.4	-1.0	2.5	10	2.4	.87	--	--	--

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV												
22...	<.1	9.2	<1	<1	<20	<10	<1	<1	<1	<1	105	95.0
JAN												
10...	--	--	<1	<1	<20	<10	<1	<1	<1	<1	126	104
FEB												
22...	--	--	<1	<1	<20	<10	<1	<1	<1	<1	151	149
MAR												
20...	--	--	<1	<1	24	<10	1	<1	<1	<1	153	146

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

WATER TEMPERATURE, DEGREES CELSIUS, OCTOBER 1999 to SEPTEMBER 2000

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

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

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

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

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

SPOKANE RIVER BASIN

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

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

DRAINAGE AREA.--299 mi^2.

WATER-DISCHARGE RECORDS

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

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

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

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 26	1345	2,240	10.37	Apr. 14	0900	*5,010	*12.98
				May 4	0945	2,110	10.22

Minimum, 64 ft^3/s Oct. 5, gage height, 7.02 ft, result of channel reconstruction diversion upstream; minimum daily, 99 ft^3/s Oct 5, 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	182	392	268	320	681	718	1390	1120	367	152	118
2	101	164	413	268	1320	656	803	1840	1040	344	151	121
3	101	156	412	250	1020	643	1080	2040	1030	331	149	119
4	103	208	358	248	776	721	1440	2050	1040	334	144	116
5	99	181	331	248	634	916	1850	1770	1090	316	142	115
6	99	226	316	238	549	999	1600	1480	1100	315	140	117
7	101	222	310	233	493	897	1160	1310	1030	300	137	114
8	122	202	279	246	480	783	944	1230	1000	285	134	117
9	182	189	262	257	546	715	915	1250	955	281	132	124
10	133	182	256	249	602	657	1150	1340	878	265	129	138
11	121	173	255	241	601	646	1590	1260	789	254	134	142
12	116	179	369	239	563	609	1830	1140	850	246	132	123
13	112	356	705	228	524	580	2370	1040	1020	238	130	118
14	111	317	525	251	486	620	4630	1000	974	227	127	117
15	108	270	470	285	463	614	3560	1040	920	222	125	116
16	105	237	625	352	420	616	2740	1210	846	218	122	113
17	107	237	742	441	396	599	2380	1500	777	212	119	113
18	107	222	1310	407	375	569	2380	1660	738	206	118	112
19	105	201	1160	371	352	597	2550	1610	700	198	119	111
20	105	222	772	346	345	564	2430	1560	645	191	119	110
21	105	222	597	336	349	532	2370	1650	600	187	118	115
22	106	212	491	314	366	521	2670	1780	569	184	115	111
23	103	198	429	290	471	766	2520	1790	536	180	113	111
24	102	192	386	280	587	887	1970	1630	507	179	112	109
25	103	565	348	273	572	832	1580	1470	484	174	109	108
26	129	1710	329	266	548	746	1360	1360	445	171	107	106
27	140	1130	312	e260	543	737	1250	1270	421	168	108	102
28	251	629	294	248	604	960	1580	1310	407	164	107	102
29	252	472	284	240	680	980	1550	1210	390	162	107	102
30	181	429	274	227	---	836	1360	1100	377	160	110	142
31	187	---	273	236	---	737	---	1290	---	155	109	---
TOTAL	3898	10085	14279	8636	15985	22216	56330	44580	23278	7234	3870	3482
MEAN	126	336	461	279	551	717	1878	1438	776	233	125	116
MAX	252	1710	1310	441	1320	999	4630	2050	1120	367	152	142
MIN	99	156	255	227	320	521	718	1000	377	155	107	102
AC-FT	7730	20000	28320	17130	31710	44070	111700	88420	46170	14350	7680	6910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

MEAN	126	313	414	431	646	730	1272	1350	774	278	149	114
MAX	252	977	1544	963	2104	1137	1878	2839	1641	503	199	150
(WY)	1996	1996	1996	1997	1996	1997	2000	1997	1999	1999	1999	1997
MIN	78.8	83.1	103	110	105	446	651	651	256	131	82.8	76.4
(WY)	1988	1988	1993	1988	1989	1996	1992	1992	1992	1994	1994	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1987 - 2000	
ANNUAL TOTAL	254895		213873			
ANNUAL MEAN	698		584		548	
HIGHEST ANNUAL MEAN					846	1997
LOWEST ANNUAL MEAN					277	1994
HIGHEST DAILY MEAN	4050	May 25	4630	Apr 14	9000	Feb 9 1996
LOWEST DAILY MEAN	99	Oct 5	99	Oct 5	58	Nov 25 1993
ANNUAL SEVEN-DAY MINIMUM	101	Oct 1	101	Oct 1	67	Oct 4 1994
ANNUAL RUNOFF (AC-FT)	505600		424200		397300	
10 PERCENT EXCEEDS	1730		1370		1310	
50 PERCENT EXCEEDS	413		335		288	
90 PERCENT EXCEEDS	118		112		101	

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.

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, 0.7 °C Jan. 30, 2000.
SPECIFIC CONDUCTANCE: Maximum daily mean, 358 microsiemens/cm Aug. 25, 2000; minimum daily mean, 47 microsiemens/cm May 25, 1999.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE: Maximum, 22.0 °C July 29; minimum, 0.7 °C Jan. 30.
SPECIFIC CONDUCTANCE: Maximum daily mean, 358 microsiemens/cm Aug. 25; minimum daily mean, 50 microsiemens/cm April 14.

REMARKS.--Missing data due to equipment malfunction.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
NOV										
17...	1040	245	188	7.2	6.0	8.0	--	--	--	--
JAN										
05...	1420	241	205	7.4	1.0	4.0	--	--	--	--
FEB										
17...	0740	400	175	7.3	-4.0	2.0	--	--	--	--
MAR										
28...	1100	948	120	7.4	3.5	4.8	.6	11.7	98	K1
MAY										
10...	1320	1340	84	7.8	17.0	7.2	.6	11.2	101	K3
JUN										
15...	0955	934	99	7.3	17.5	10.0	.3	10.9	103	K10
JUL										
19...	1230	202	221	7.2	28.5	18.0	1.3	13.3	150	K1
AUG										
08...	1200	134	264	7.3	32.5	17.9	.9	--	--	K4
SEP										
07...	0735	115	304	7.1	11.0	7.3	.6	7.6	67	K12

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV										
17...	--	69	18	5.8	7.3	--	--	--	--	53
JAN										
05...	--	78	21	6.5	--	--	--	--	--	--
FEB										
17...	--	67	17	5.8	--	--	--	--	--	--
MAR										
28...	K6	43	11	3.8	--	--	29	0	24	--
MAY										
10...	K2	--	--	--	--	--	--	--	--	--
JUN										
15...	K1	--	--	--	--	--	--	--	--	--
JUL										
19...	K3	--	--	--	--	--	--	--	--	--
AUG										
08...	K1	--	--	--	--	--	--	--	--	--
SEP										
07...	24	120	30	11	6.6	1.7	44	0	36	96

K Results based on counts outside ideal colony range.

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

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

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)
NOV 17...	3.2	.2	10	.32	.189	.4	.042	.012	7	7.0
JAN 05...	--	--	--	.27	.123	.2	.029	.005	8	7.8
FEB 17...	--	--	--	.22	.122	.2	.024	.008	8	8.3
MAR 28...	--	--	--	.12	.044	.1	.024	.006	5	5.0
MAY 10...	--	--	--	.049	.023	E.09	E.007	.004	--	--
JUN 15...	--	--	--	.061	.048	E.10	.017	.005	--	--
JUL 19...	--	--	--	<.005	<.002	.2	.036	<.001	--	--
AUG 08...	--	--	--	.22	.141	.3	.046	.018	--	--
SEP 07...	3.0	<.1	11	.23	.287	.4	.068	.027	--	--

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ZINC TOTAL RECOVERABLE (UG/L AS ZN) (01092)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
NOV 17...	228	68	3	19.3	285	287	1460	1370	--	--
JAN 05...	167	85	4	12.4	247	283	1150	1090	--	--
FEB 17...	169	86	3	12.6	237	231	1170	1170	--	--
MAR 28...	288	29	3	32.7	252	249	691	674	59	151
MAY 10...	--	--	--	--	--	--	--	--	9	33
JUN 15...	--	--	--	--	--	--	--	--	4	10
JUL 19...	--	--	--	--	--	--	--	--	2	1.1
AUG 08...	--	--	--	--	--	--	--	--	1	.36
SEP 07...	--	--	--	--	--	--	--	--	10	3.1

E Positive detection but below stated detection limit.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	12.6	7.8	10.2	9.0	6.5	7.5	6.2	6.0	6.1	3.2	2.9	3.0
2	12.1	7.2	9.6	8.5	5.3	6.9	6.0	5.0	5.8	3.3	2.8	3.0
3	12.1	7.0	9.6	8.3	5.8	7.2	5.4	3.9	4.7	3.8	2.9	3.2
4	12.9	7.5	10.2	8.4	6.0	7.4	4.7	3.0	3.8	3.9	2.8	3.3
5	---	---	---	6.4	4.8	5.6	4.5	3.3	3.9	4.3	3.2	3.7
6	---	---	---	8.9	6.4	7.6	5.5	4.4	4.9	4.0	3.0	3.6
7	11.0	10.0	10.6	9.4	7.6	8.3	5.4	4.7	5.0	4.5	3.3	3.9
8	11.0	10.0	10.5	8.1	6.8	7.5	5.4	4.4	4.8	4.5	3.7	4.2
9	11.0	9.4	10.3	9.3	7.9	8.5	5.0	4.4	4.7	3.7	1.8	3.1
10	11.0	8.3	9.5	9.1	8.4	8.7	4.9	4.7	4.8	3.3	1.7	2.6
11	11.0	9.2	10.1	8.9	7.8	8.5	4.7	3.8	4.4	3.7	2.6	3.1
12	12.0	10.0	10.6	10.9	8.6	9.8	5.2	4.5	4.9	3.2	2.1	2.7
13	12.0	9.9	10.7	10.6	9.6	10.1	4.5	3.9	4.2	3.8	2.6	3.1
14	11.0	9.0	10.1	10.3	8.3	9.3	4.0	3.4	3.7	4.5	3.2	3.7
15	---	---	---	8.5	7.3	7.9	4.7	3.9	4.3	4.1	2.6	3.3
16	---	---	---	8.6	7.4	7.9	5.4	4.7	5.1	4.1	2.8	3.4
17	9.0	6.5	7.7	8.2	7.8	8.0	5.2	4.6	4.9	4.4	2.6	3.5
18	---	---	---	9.0	6.8	7.8	5.1	4.5	4.9	4.0	2.1	2.9
19	---	---	---	7.6	6.4	7.0	4.5	4.1	4.3	4.4	2.3	3.1
20	---	---	---	7.8	6.8	7.4	5.2	4.4	4.8	3.4	2.1	2.6
21	---	---	---	6.8	5.8	6.2	5.5	4.9	5.1	2.8	2.2	2.4
22	---	---	---	6.8	5.7	6.2	5.3	4.8	5.0	3.9	2.8	3.3
23	---	---	---	6.7	6.0	6.3	5.7	3.9	5.0	3.6	2.1	2.9
24	10.7	8.3	9.3	6.5	6.1	6.3	4.5	3.4	3.8	4.4	2.3	3.2
25	10.0	7.5	8.8	6.5	6.1	6.3	4.4	2.8	3.7	3.6	2.9	3.3
26	10.3	8.6	9.7	6.4	5.5	6.1	3.9	2.6	3.0	---	---	---
27	9.2	7.6	8.5	6.1	5.4	5.7	3.5	2.9	3.2	---	---	---
28	8.8	8.3	8.6	6.6	5.0	5.8	3.2	2.8	3.0	---	---	---
29	8.9	7.5	8.3	6.3	4.9	5.6	3.2	2.6	2.9	3.8	1.4	2.5
30	10.8	8.2	9.3	7.0	6.2	6.5	3.3	2.7	3.0	2.8	.7	1.6
31	10.2	7.2	8.9	---	---	---	3.2	2.0	2.7	2.8	1.1	2.0
MONTH	---	---	---	10.9	4.8	7.3	6.2	2.0	4.3	---	---	---

SPOKANE RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.2	2.1	3.1	6.1	4.1	4.8	8.9	4.5	6.5	11.1	6.0	8.5
2	3.9	2.5	3.2	5.8	3.9	4.8	9.6	5.0	7.0	8.4	6.6	7.3
3	4.8	2.7	3.6	6.4	4.5	5.4	9.7	4.2	6.7	7.8	5.9	6.8
4	3.8	2.2	3.1	5.6	4.7	5.1	8.1	4.9	6.2	7.5	5.7	6.5
5	4.9	3.4	4.0	6.5	4.6	5.3	6.2	4.1	5.2	7.5	5.2	6.4
6	4.9	3.7	4.3	5.1	4.3	4.8	5.9	4.3	5.0	8.8	4.9	6.8
7	5.3	4.0	4.5	6.8	4.1	5.1	8.8	3.9	5.9	10.0	4.6	7.1
8	5.1	3.8	4.4	6.5	4.1	5.1	9.6	3.9	6.4	8.9	4.9	7.0
9	5.3	3.1	4.3	6.2	3.9	5.0	10.4	4.5	7.1	8.4	6.5	7.4
10	4.7	2.3	3.3	6.7	4.3	5.3	10.3	4.9	7.3	8.4	5.7	6.8
11	3.1	2.1	2.6	5.3	4.3	4.7	9.5	4.9	7.0	6.7	5.1	5.9
12	4.5	2.6	3.5	6.1	3.9	4.9	8.3	5.4	6.6	9.0	5.4	6.8
13	5.5	3.0	3.9	6.8	4.3	5.4	6.4	5.7	6.1	11.4	5.2	8.0
14	4.1	3.2	3.6	6.5	4.6	5.3	6.4	5.1	5.7	9.9	6.7	8.1
15	4.3	3.0	3.5	7.5	4.0	5.3	7.0	5.3	6.0	12.6	6.4	9.2
16	5.5	2.7	3.8	5.0	3.9	4.4	7.3	5.0	6.1	12.1	6.5	9.3
17	3.7	2.0	2.9	4.5	3.8	4.1	9.3	5.3	6.9	12.0	6.9	9.2
18	3.6	1.7	2.7	6.1	3.9	4.9	10.2	5.4	7.3	11.1	6.5	8.7
19	5.0	1.2	2.9	6.3	3.9	4.9	9.5	5.2	7.1	9.3	6.8	7.9
20	5.3	1.5	3.2	7.0	3.3	4.8	9.7	5.0	7.1	11.3	6.6	8.6
21	4.7	3.2	3.9	7.5	3.1	5.0	9.4	5.7	7.4	10.3	7.4	8.7
22	6.0	4.1	4.9	8.8	3.7	6.2	8.0	5.8	6.7	11.9	7.2	9.4
23	5.1	4.0	4.5	6.8	4.4	5.6	7.0	4.6	5.7	11.7	7.2	9.3
24	5.4	3.6	4.3	8.0	4.0	5.5	7.7	4.7	5.8	11.6	6.4	8.9
25	5.3	3.2	4.0	6.0	3.7	4.9	6.7	4.4	5.5	11.9	6.8	9.2
26	5.3	3.2	4.2	8.7	4.2	6.2	10.2	4.9	7.3	9.8	7.1	8.5
27	5.5	4.0	4.7	9.2	4.2	6.5	11.6	5.4	8.3	9.6	7.1	8.3
28	5.3	4.3	4.7	6.5	4.5	5.4	8.9	6.0	7.2	10.5	7.0	8.4
29	5.4	3.7	4.5	6.1	4.3	5.1	9.5	5.1	7.0	10.9	6.2	8.3
30	---	---	---	8.4	4.1	5.8	10.9	5.2	7.8	10.3	6.5	8.4
31	---	---	---	9.1	3.7	6.1	---	---	---	9.4	6.9	8.1
MONTH	6.0	1.2	3.8	9.2	3.1	5.2	11.6	3.9	6.6	12.6	4.6	8.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.4	6.4	9.1	17.8	11.9	14.6	21.8	15.5	18.6	15.3	13.8	14.5
2	12.1	7.5	9.8	17.5	11.2	14.3	21.4	14.5	18.0	13.9	12.2	13.0
3	13.9	7.5	10.6	13.6	10.8	11.9	21.6	14.7	18.1	17.3	11.1	13.8
4	14.3	8.0	11.1	14.0	9.7	11.3	21.4	15.4	18.3	16.3	12.1	14.0
5	13.0	8.5	10.6	14.7	9.8	12.1	21.7	14.4	18.0	13.7	11.9	12.7
6	13.4	8.6	10.9	13.7	11.3	12.4	21.8	14.9	18.2	13.4	11.8	12.5
7	14.8	8.5	11.5	18.1	11.0	14.1	21.2	14.5	17.8	16.8	11.1	13.7
8	11.7	9.3	10.1	15.7	11.5	13.8	21.5	14.3	17.8	14.2	11.9	12.6
9	10.4	8.5	9.2	18.7	11.7	14.7	21.7	14.5	18.1	12.1	10.2	11.3
10	9.5	7.6	8.4	18.7	11.4	14.9	20.3	15.1	17.8	12.7	11.0	11.8
11	10.1	6.9	8.4	19.4	11.8	15.5	20.3	15.2	17.5	16.3	11.5	13.6
12	9.9	8.1	8.9	19.8	12.4	16.0	19.4	12.6	16.1	17.4	11.8	14.4
13	11.8	8.3	9.8	19.7	13.2	16.5	19.6	12.8	16.2	18.7	13.0	15.6
14	9.9	8.6	9.2	19.4	13.1	16.3	19.8	12.7	16.2	19.4	13.3	16.2
15	13.1	8.5	10.6	19.5	13.0	16.2	19.5	13.0	16.2	17.8	13.7	15.8
16	14.5	7.6	10.9	19.6	12.1	15.8	19.6	12.4	16.0	18.8	13.6	16.0
17	14.7	8.4	11.5	20.1	12.6	16.3	19.4	12.5	16.0	18.9	13.8	16.3
18	13.3	8.9	11.1	19.2	13.2	15.8	19.4	13.6	16.4	16.1	13.6	14.9
19	12.9	9.5	11.0	20.8	13.5	17.0	16.5	13.5	15.0	17.1	13.3	15.0
20	15.8	8.5	12.0	20.8	13.8	17.2	18.5	11.7	14.9	14.0	11.3	12.1
21	15.7	9.5	12.5	21.3	13.6	17.4	18.7	11.7	15.2	11.3	9.0	10.5
22	16.8	10.8	13.6	20.1	14.3	17.2	19.2	12.2	15.7	12.3	7.0	9.5
23	15.1	9.8	12.4	20.5	14.1	17.2	19.8	12.6	16.2	12.8	6.9	9.8
24	12.3	9.8	11.3	20.6	13.4	16.9	19.4	14.0	16.5	13.6	7.6	10.5
25	17.0	9.6	13.0	20.6	13.7	17.1	20.0	14.0	16.9	13.5	8.3	10.8
26	17.4	10.2	13.6	20.6	13.7	17.1	17.8	13.6	15.8	14.2	8.3	11.2
27	18.1	10.8	14.4	20.6	13.9	17.2	17.2	12.7	14.7	14.6	8.7	11.6
28	18.5	11.2	14.8	21.3	13.8	17.5	18.0	11.2	14.5	14.0	9.5	11.7
29	17.8	11.8	14.8	22.0	14.7	18.3	17.0	11.5	14.5	12.0	10.1	11.2
30	18.0	11.5	14.6	21.8	14.9	18.4	19.7	13.6	16.4	12.5	11.7	12.0
31	---	---	---	21.4	15.3	18.1	17.2	12.7	15.0	---	---	---
MONTH	18.5	6.4	11.3	22.0	9.7	15.8	21.8	11.2	16.5	19.4	6.9	13.0

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

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	217	170	207	205	133	129	71	83	151	241	297
2	---	251	161	230	102	130	121	69	92	140	246	274
3	---	258	146	222	120	130	104	62	91	136	247	214
4	311	242	166	210	119	134	91	60	91	158	250	270
5	---	241	171	230	117	127	79	62	87	161	257	294
6	---	217	165	217	142	127	86	70	86	165	261	292
7	379	201	180	211	157	126	96	76	88	161	258	294
8	302	225	182	246	161	136	107	78	90	174	260	298
9	234	233	184	212	143	147	113	79	94	176	246	284
10	252	238	186	224	130	150	101	76	99	179	203	279
11	294	258	168	203	138	142	82	85	103	183	263	260
12	300	257	180	229	135	147	71	91	105	188	267	279
13	300	222	145	205	146	156	64	98	100	194	275	272
14	304	179	156	237	141	152	50	98	97	199	273	219
15	---	206	169	195	144	152	58	95	95	186	274	288
16	---	201	157	200	173	144	63	84	94	178	279	299
17	262	212	147	170	187	155	63	72	106	208	276	298
18	---	215	130	174	184	145	60	68	109	211	288	296
19	---	218	131	176	159	141	60	68	113	221	282	294
20	---	211	139	179	184	168	61	67	119	219	230	279
21	311	209	150	176	195	161	62	64	122	221	272	217
22	---	240	160	200	179	167	58	60	127	208	283	296
23	---	263	167	170	165	141	59	59	116	171	283	302
24	281	211	179	209	142	124	66	63	135	223	332	304
25	309	192	170	207	135	112	73	67	138	231	358	299
26	299	103	177	---	141	135	80	69	140	232	288	279
27	277	112	198	---	147	136	88	68	143	233	267	222
28	245	123	209	---	139	121	76	75	146	232	323	295
29	237	142	208	234	132	109	74	79	146	235	312	316
30	285	167	217	186	---	116	76	85	149	237	311	297
31	222	---	221	234	---	127	---	78	---	237	294	---
MEAN	---	209	171	---	150	138	79	74	110	195	274	280
MAX	---	263	221	---	205	168	129	98	149	237	358	316
MIN	---	103	130	---	102	109	50	59	83	136	203	214

BIOLOGICAL DATA, SEPTEMBER 2000
FISH COLLECTION DATA

COLLECTION METHODS.--Electrofishing; tote-barge (12A).

LENGTH OF REACH.--615 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.60 hours.

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Sep. 14								
Catostomidae (Suckers)									
Catostomus macrocheilus (Largescale sucker)		1	2.0	105	14	NATIVE	OMNIVORE	COLD	1-AA
Ictaluridae (Bullhead catfishes)									
Ameiurus nebulosus (Brown bullhead)		2	3.9	84-100	11-16	INTRODUCED	OMNIVORE	WARM	2-AA
Salmonidae (Trouts)									
Oncorhynchus clarki sp. (Cutthroat trout)		5	9.8	83-350	8-481	NATIVE	INVERTIVORE	COLD	5-AA
Oncorhynchus mykiss sp. (Rainbow trout)		3	5.9	241-568	179-1985	[a]INTRODUCED	INVERTIVORE	COLD	1-ER,2-AA
Prosopium williamsoni (Mountain whitefish)		4	7.8	240-331	110-218	NATIVE	INVERTIVORE	COLD	4-AA
Salvelinus fontinalis (Brook trout)		36	70.6	70-364	4-595	INTRODUCED	INVERTIVORE	COLD	35-AA,1-ER

TOTAL NUMBER OF TAXA 6
TOTAL INDIVIDUALS 51

a-Rainbow trout are considered native in Idaho downstream of Shoshone Falls and introduced upstream of Shoshone Falls.

SPOKANE RIVER BASIN

12413500 COEUR D'ALENE RIVER AT CATALDO, ID

LOCATION (Revised).--Lat 47°33'17", long 116°19'23", in NW¼SE¼NW¼ sec.34, T.49 N., R.1 E., Kootenai County, Hydrologic Unit 17010303, Cataldo quadrangle, on left bank at Cataldo, downstream side of railroad bridge, 0.9 mi upstream from Interstate Highway 90, 1.5 mi downstream from old gage site, 3.4 mi upstream from Latour Creek, about 2 mi upstream from Coeur d'Alene Lake backwater, 4.9 mi downstream from South Fork, and at mile 162.9.

DRAINAGE AREA.--1,223 mi^2, approximately.

WATER-DISCHARGE RECORDS

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 National Geodetic Vertical Datum of 1929. Sea level datum is 3.67 ft higher, based on National Geodetic Survey adjustment in 1991. Apr. 25, 1911 to Dec. 31, 1912, nonrecording gage at site 1.4 mi upstream at different datum. July 29, 1920 to Oct. 10, 1925, nonrecording gage, Oct. 11, 1925 to Sept. 30, 1972, recording gage at site 1.5 mi upstream at datum 2.84 ft lower and Aug. 22, 1986 to Feb. 3, 1997 at site 50 ft upstream at same datum.

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

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

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 5	2215	11,200	40.05	Apr. 15	0115	*29,100	*44.80

Minimum, 336 ft^3/s Oct. 5, gage height, 33.12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	373	693	2170	1410	1010	3190	4470	6300	3640	1230	572	418
2	371	629	2180	1370	3830	3200	4790	7750	3280	1190	560	439
3	370	568	2290	1260	4530	3200	6080	9420	3140	1150	552	450
4	361	634	2010	1220	3870	3500	7660	9360	3110	1180	543	446
5	356	653	1800	1200	3260	4590	10200	8210	3140	1200	531	438
6	349	700	1670	1110	2810	5780	10300	6710	3160	1120	524	438
7	352	782	1620	1060	2470	5660	7710	5700	3000	1130	516	437
8	394	735	1440	1110	2320	5010	6020	5140	2860	1060	506	435
9	679	681	1330	1220	2420	4470	5530	4950	2800	1020	496	480
10	612	640	1280	1160	2580	4020	6350	5300	2630	972	487	525
11	504	623	1250	1110	2660	3850	8690	5190	2440	932	490	609
12	452	636	1530	1110	2600	3660	10800	4750	2520	899	483	547
13	425	1090	3790	1050	2480	3440	12800	4310	3240	868	475	485
14	411	1430	3570	1080	2300	3460	23400	4080	3060	840	468	455
15	396	1200	3120	1160	2220	3470	26100	4080	3010	816	460	437
16	385	1010	4110	1230	1970	3400	19000	4440	2870	794	451	424
17	377	917	4870	1410	1810	3350	15500	5240	2680	776	445	413
18	375	908	6410	1340	1690	3120	14500	5820	2520	759	439	405
19	369	856	7300	1260	1600	3250	14800	5690	2410	743	435	400
20	366	873	5410	1200	1540	3170	14100	5350	2230	723	432	397
21	363	991	4150	1220	1520	2970	13000	5300	2050	705	431	406
22	363	976	3330	1220	1620	2860	13500	5470	1930	692	424	399
23	359	907	2790	1160	1850	3990	13600	5520	1810	676	418	395
24	355	857	2400	1100	2330	5340	11000	5070	1730	664	413	391
25	356	1890	2120	1070	2450	5170	8490	4590	1670	652	411	387
26	414	7070	1910	1060	2430	4640	6890	4220	1550	639	402	381
27	483	7360	1720	1030	2420	4420	5880	3910	1460	625	399	376
28	653	4180	1580	980	2660	5320	6720	3800	1390	615	398	371
29	978	2940	1470	950	3020	6150	7710	3540	1330	603	395	371
30	809	2390	1500	887	---	5440	6700	3270	1280	595	398	452
31	695	---	1440	826	---	4770	---	3780	---	582	396	---
TOTAL	14105	45819	83560	35573	70270	127860	322290	166260	73940	26450	14350	13007
MEAN	455	1527	2695	1148	2423	4125	10740	5363	2465	853	463	434
MAX	978	7360	7300	1410	4530	6150	26100	9420	3640	1230	572	609
MIN	349	568	1250	826	1010	2860	4470	3270	1280	582	395	371
AC-FT	27980	90880	165700	70560	139400	253600	639300	329800	146700	52460	28460	25800
CFSM	.37	1.25	2.20	.94	1.98	3.37	8.78	4.39	2.02	.70	.38	.35
IN.	.43	1.39	2.54	1.08	2.14	3.89	9.80	5.06	2.25	.80	.44	.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2000, BY WATER YEAR (WY)

MEAN	571	1355	2011	1858	2606	3365	7353	6988	2706	913	485	419
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	272
(WY)	1945	1930	1931	1930	1929	1955	1941	1992	1926	1926	1940	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1911 - 2000	
ANNUAL TOTAL	1140493		993484			
ANNUAL MEAN	3125		2714		2547	
HIGHEST ANNUAL MEAN					4057	1996
LOWEST ANNUAL MEAN					1043	1944
HIGHEST DAILY MEAN	16500	May 26	26100	Apr 15	56000	Feb 9 1996
LOWEST DAILY MEAN	349	Oct 6	349	Oct 6	141	Dec 5 1929
ANNUAL SEVEN-DAY MINIMUM	362	Oct 19	362	Oct 19	176	Jan 16 1930
ANNUAL RUNOFF (AC-FT)	2262000		1971000		1845000	
ANNUAL RUNOFF (CFSM)	2.55		2.22		2.08	
ANNUAL RUNOFF (INCHES)	34.69		30.22		28.29	
10 PERCENT EXCEEDS	8290		6040		6840	
50 PERCENT EXCEEDS	1880		1410		1120	
90 PERCENT EXCEEDS	404		406		352	

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1987 to March 2000 (discontinued).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
OCT									
20...	1010	359	141	7.0	6.5	7.5	55	14	4.7
NOV									
18...	1200	959	80	7.1	12.0	7.0	34	8.5	3.0
JAN									
06...	1345	1060	80	7.4	1.0	3.0	33	8.3	3.0
FEB									
17...	1020	1830	72	6.9	0.0	3.0	29	7.1	2.6
MAR									
23...	1100	3950	65	6.9	6.0	5.0	26	6.3	2.4

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
OCT									
20...	2.6	32	0	26	34	1	.1	10	3
NOV									
18...	2.1	--	--	--	14	1.1	<.1	10	2
JAN									
06...	--	--	--	--	--	--	--	--	2
FEB									
17...	--	--	--	--	--	--	--	--	2
MAR									
23...	--	24	0	20	--	--	--	--	1

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT									
20...	2.9	65	12	1	4.9	110	116	535	498
NOV									
18...	2.2	71	E8	<1	5.2	66	65	345	316
JAN									
06...	1.8	51	17	1	2.9	60	61	300	276
FEB									
17...	1.9	57	15	<1	3.3	56	55	282	282
MAR									
23...	1.5	136	11	<1	10.1	119	120	196	189

E Positive detection but below stated detection limit.

SPOKANE RIVER BASIN

12413810 COEUR D'ALENE RIVER AT ROSE LAKE, ID

LOCATION.--Lat 47°32'15", long 116°28'20", in SW¼SE¼NW¼ sec.4, T.48 N., R.1 W., Kootenai County, Hydrologic Unit 17010303, on right bank 10 ft upstream from county road bridge at Rose Lake, 0.7 mi upstream from Rose Creek, 2.9 mi downstream from Fourth of July Creek, and at mile 153.4.

DRAINAGE AREA.--1,318 mi^2.

WATER-STAGE RECORDS

PERIOD OF RECORD.--October 1994 to April 2000 (gage heights and discharge measurements only) (discontinued).

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 2,139.43 ft, Feb. 9, 1996; minimum, 2,118.98 ft, Jan. 14, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum elevation during period October 1999 to April 2000, 2,134.65 ft, Apr. 15; minimum, 2,119.70 ft, Jan. 31, Feb. 1.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.68	22.37	23.33	21.56	19.85	23.01	25.01	---	---	---	---	---
2	23.60	22.34	23.32	21.42	21.76	23.11	25.01	---	---	---	---	---
3	23.51	22.30	23.35	21.21	23.22	23.17	25.51	---	---	---	---	---
4	23.44	22.31	23.16	21.15	23.16	23.36	26.32	---	---	---	---	---
5	23.38	22.21	23.02	21.03	22.89	24.04	27.46	---	---	---	---	---
6	23.32	22.22	22.89	20.84	22.66	24.89	28.11	---	---	---	---	---
7	23.26	22.23	22.78	20.70	22.45	25.14	27.57	---	---	---	---	---
8	23.22	22.19	22.56	20.70	22.33	24.96	26.83	---	---	---	---	---
9	23.23	22.12	22.39	20.78	22.39	24.74	26.41	---	---	---	---	---
10	23.16	22.05	22.27	20.55	22.48	24.49	26.45	---	---	---	---	---
11	23.12	21.97	22.11	20.47	22.56	24.43	27.19	---	---	---	---	---
12	23.06	21.96	22.10	20.44	22.56	24.31	28.16	---	---	---	---	---
13	23.00	22.01	23.10	20.27	22.50	24.16	29.10	---	---	---	---	---
14	22.97	22.06	23.32	20.28	22.39	24.23	31.85	---	---	---	---	---
15	22.88	22.00	23.21	20.33	22.38	24.18	34.37	---	---	---	---	---
16	22.83	21.90	23.88	20.39	22.17	24.10	34.12	---	---	---	---	---
17	22.77	21.89	24.48	20.57	22.02	24.12	33.30	---	---	---	---	---
18	22.71	21.82	25.26	20.57	21.86	23.95	32.82	---	---	---	---	---
19	22.64	21.74	26.02	20.55	21.71	23.99	32.73	---	---	---	---	---
20	---	21.75	25.60	20.52	21.57	23.87	32.65	---	---	---	---	---
21	---	21.69	24.98	20.51	21.47	23.69	32.38	---	---	---	---	---
22	22.45	21.64	24.42	20.48	21.46	23.55	32.31	---	---	---	---	---
23	22.42	21.56	23.98	20.38	21.61	23.99	32.40	---	---	---	---	---
24	22.39	21.50	23.58	20.31	21.98	24.84	32.00	---	---	---	---	---
25	22.31	21.81	23.22	20.27	22.14	25.04	31.20	---	---	---	---	---
26	22.32	24.00	22.89	20.25	22.19	24.88	30.44	---	---	---	---	---
27	22.28	25.61	22.59	20.16	22.23	24.73	29.73	---	---	---	---	---
28	22.44	24.31	22.30	20.07	22.48	25.05	29.49	---	---	---	---	---
29	22.48	23.65	22.06	19.98	22.77	25.61	29.52	---	---	---	---	---
30	22.44	23.45	21.87	19.86	---	25.53	29.14	---	---	---	---	---
31	22.54	---	21.69	19.76	---	25.23	---	---	---	---	---	---
MEAN	---	22.36	23.28	20.53	22.18	24.34	29.65	---	---	---	---	---
MAX	---	25.61	26.02	21.56	23.22	25.61	34.37	---	---	---	---	---
MIN	---	21.50	21.69	19.76	19.85	23.01	25.01	---	---	---	---	---

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1994 to March 2000 (discontinued).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV												
17...	1340	908	81	7.2	5.0	7.5	34	8.6	3.0	2.0	15	1
JAN												
03...	1335	1370	74	7.1	0.0	2.5	30	7.4	2.8	--	--	--
FEB												
14...	1000	2590	65	6.8	2.0	3.5	25	6.3	2.3	--	--	--
MAR												
27...	1215	4940	53	7.3	15.5	5.5	22	5.4	2.0	--	--	--

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV												
17...	<.1	10	2	2.0	106	33	1	5.2	66	69	317	286
JAN												
03...	--	--	2	1.7	155	62	5	3.9	110	124	278	256
FEB												
14...	--	--	2	1.8	129	48	1	4.5	70	71	232	227
MAR												
27...	--	--	1	1.1	123	33	2	7.3	66	66	164	155

SPOKANE RIVER BASIN

12413860 COEUR D'ALENE RIVER NEAR HARRISON, ID

LOCATION.--Lat 47°28'43", long 116°43'56", in NE¼SW¼NW¼ sec.28, T.48 N., R.3 W., Kootenai County, Hydrologic Unit 17010303, on left bank 50 ft downstream from Springston Bridge, 2.5 mi upstream from Coeur d'Alene Lake, 3.0 mi northeast of Harrison, and at mile 134.6.

DRAINAGE AREA.--1,475 mi^2, approximately.

WATER-STAGE RECORDS

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

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

REMARKS.--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, 2,118.02 ft, Jan. 18, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2,129.45 ft, Apr. 20, 21, 23, 24; minimum, 2,119.65 ft, Jan. 31.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.74	22.45	23.00	21.31	19.74	22.07	23.65	27.17	24.76	25.05	25.08	25.05
2	23.66	22.41	23.00	21.18	20.37	22.16	23.62	26.99	24.73	25.06	25.08	25.08
3	23.59	22.37	22.96	21.03	21.20	22.25	23.70	26.95	24.67	25.05	25.08	25.09
4	23.52	22.33	22.89	20.96	21.56	22.33	23.93	26.96	24.62	25.04	25.08	25.11
5	23.45	22.28	22.78	20.83	21.71	22.62	24.26	26.96	24.61	25.02	25.08	25.11
6	23.38	22.30	22.68	20.70	21.77	22.90	24.68	26.86	24.65	25.00	25.08	25.09
7	23.31	22.29	22.57	20.58	21.77	23.17	24.86	26.66	24.69	24.98	25.07	25.07
8	23.26	22.24	22.42	20.53	21.74	23.28	24.83	26.41	24.76	24.99	25.06	25.06
9	23.26	22.18	22.27	20.47	21.75	23.30	24.72	26.17	24.85	25.00	25.05	25.03
10	23.22	22.12	22.13	20.37	21.80	23.28	24.67	25.97	24.89	24.99	25.05	25.06
11	23.18	22.05	21.98	20.31	21.84	23.31	24.76	25.85	24.91	24.97	25.04	25.10
12	23.12	22.01	21.90	20.25	21.86	23.28	25.01	25.72	24.96	24.95	25.01	25.09
13	23.05	21.98	22.06	20.16	21.85	23.26	25.40	25.55	25.05	24.95	25.00	25.06
14	23.00	21.97	22.21	20.13	21.82	23.31	26.31	25.35	25.08	24.96	24.98	25.03
15	22.93	21.95	22.32	20.15	21.80	23.24	27.64	25.16	25.09	24.97	24.97	24.98
16	22.89	21.90	22.59	20.20	21.73	23.21	28.66	24.99	25.11	25.00	24.96	24.94
17	22.85	21.87	22.85	20.27	21.64	23.18	29.12	24.91	25.10	25.01	24.96	24.90
18	22.78	21.83	23.17	20.31	21.53	23.11	29.28	24.92	25.07	25.01	24.97	24.86
19	22.71	21.77	23.51	20.33	21.43	23.08	29.34	24.95	25.03	25.02	24.97	24.80
20	22.64	21.73	23.68	20.32	21.31	23.02	29.42	24.96	24.99	25.04	24.97	24.76
21	22.58	21.67	23.64	20.30	21.21	22.93	29.43	24.95	24.98	25.06	24.97	24.73
22	22.55	21.62	23.49	20.27	21.17	22.84	29.41	24.96	24.97	25.08	24.98	24.66
23	22.51	21.56	23.28	20.22	21.23	22.90	29.42	24.98	24.96	25.10	24.99	24.59
24	22.47	21.51	23.03	20.18	21.37	23.12	29.38	25.00	24.99	25.10	25.00	24.53
25	22.41	21.56	22.78	20.13	21.47	23.28	29.16	24.97	25.00	25.10	25.01	24.47
26	22.39	22.07	22.52	20.08	21.54	23.34	28.81	24.91	25.00	25.08	25.02	24.41
27	22.38	22.83	22.27	20.02	21.61	23.34	28.37	24.88	25.02	25.06	25.02	24.35
28	22.46	23.02	22.04	19.96	21.75	23.41	27.97	24.84	25.03	25.04	25.02	24.29
29	22.48	23.06	21.81	19.88	21.92	23.59	27.71	24.78	25.04	25.05	25.02	24.22
30	22.49	23.05	21.62	19.80	---	23.70	27.46	24.71	25.03	25.07	25.03	24.20
31	22.51	---	21.45	19.71	---	23.70	---	24.74	---	25.08	25.04	---
MEAN	22.93	22.13	22.61	20.35	21.50	23.08	26.83	25.59	24.92	25.03	25.02	24.82
MAX	23.74	23.06	23.68	21.31	21.92	23.70	29.43	27.17	25.11	25.10	25.08	25.11
MIN	22.38	21.51	21.45	19.71	19.74	22.07	23.62	24.71	24.61	24.95	24.96	24.20

WTR YR 2000 MEAN 23.74 MAX 29.43 MIN 19.71

WATER-QUALITY RECORDS

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

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
NOV										
16...	0900	1260	104	7.2	7.0	9.5	41	10	3.6	2.6
JAN										
04...	0900	1500	65	7.2	3.0	1.5	27	6.5	2.5	--
FEB										
15...	0805	3230	60	7.1	2.0	2.5	23	5.5	2.2	--
MAR										
27...	1000	5160	47	7.2	10.5	5.3	20	4.8	1.8	--

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV										
16...	23	1.2	<.1	9.6	.11	.017	.1	.01	<.001	2
JAN										
04...	--	--	--	--	.075	.029	E.09	.008	<.001	1
FEB										
15...	--	--	--	--	.051	.016	.1	.011	.002	1
MAR										
27...	--	--	--	--	.017	.002	E.08	.009	.001	1

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV									
16...	2.5	204	34	3	15	114	119	426	392
JAN									
04...	1.5	310	93	3	13	131	145	257	244
FEB									
15...	1.7	340	46	2	20	136	121	246	259
MAR									
27...	1.1	232	43	4	19	55	48	164	158

E Positive detection but below stated detection limit.

SPOKANE RIVER BASIN

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

LOCATION.--Lat 47°03'22", long 115°21'08", in NW¼NW¼SE¼ 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.

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

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

REMARKS.--Records good except for discharges Jan. 29 to May 17 and estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,230 ft^3/s May 25, 26, 1999, gage height, 5.34 ft; minimum daily, 44 ft^3/s Dec. 22, 1998, but may have been less during period of ice effect Dec. 19-22, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,860 ft^3/s May 22, gage height, 4.23 ft; minimum daily, 71 ft^3/s Oct. 24, 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	119	177	e80	e150	93	157	934	1110	377	155	102
2	89	101	175	e90	e200	91	168	1110	1070	360	151	107
3	89	99	165	e95	e150	95	188	1210	1090	369	150	101
4	88	139	e100	e100	e130	98	248	1350	1110	349	147	95
5	85	112	e140	e110	e110	104	311	1210	1180	326	142	98
6	84	175	178	112	95	114	270	1090	1180	325	140	104
7	82	148	167	104	92	116	231	999	1130	307	138	97
8	90	129	154	98	90	117	228	943	1120	295	135	95
9	171	133	143	96	96	113	264	963	1020	283	131	100
10	104	124	149	91	e85	109	335	964	918	272	129	111
11	92	118	148	96	e85	107	408	877	824	265	133	117
12	89	115	162	96	e100	103	473	804	834	253	127	100
13	87	151	158	97	108	101	712	757	896	244	123	96
14	88	135	142	e100	101	104	1130	742	829	236	122	93
15	82	124	142	e110	100	97	923	769	914	230	120	91
16	79	117	158	113	99	95	797	882	798	225	119	89
17	80	121	162	114	87	98	771	1080	742	219	116	89
18	78	120	167	e110	e85	95	836	1230	710	212	115	87
19	76	113	153	103	e80	100	974	1320	683	208	113	85
20	75	133	150	107	e85	91	1030	1370	633	204	112	84
21	75	118	145	107	e85	89	1140	1490	604	199	110	88
22	74	112	139	105	e85	98	1340	1680	585	196	108	86
23	72	104	102	101	e90	124	1250	1730	557	190	106	84
24	71	106	e80	99	92	112	1040	1600	524	186	105	83
25	71	142	e80	97	86	112	890	1530	496	183	102	81
26	94	343	e80	96	84	116	794	1420	469	179	100	80
27	103	238	e80	94	95	137	791	1340	452	174	98	80
28	259	195	e80	93	102	185	921	1420	431	170	96	79
29	187	179	e75	e85	94	161	877	1280	412	166	95	78
30	129	183	e75	e75	---	145	847	1200	395	163	95	96
31	137	---	e75	e80	---	146	---	1260	---	160	94	---
TOTAL	3070	4246	4101	3054	2941	3466	20344	36554	23716	7525	3727	2776
MEAN	99.0	142	132	98.5	101	112	678	1179	791	243	120	92.5
MAX	259	343	178	114	200	185	1340	1730	1180	377	155	117
MIN	71	99	75	75	80	89	157	742	395	160	94	78
AC-FT	6090	8420	8130	6060	5830	6870	40350	72500	47040	14930	7390	5510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN	88.0	128	115	127	104	140	472	1218	1013	376	139	94.5
MAX	99.0	157	132	178	111	157	678	1349	1664	634	166	103
(WY)	2000	1998	2000	1999	1999	1998	2000	1998	1999	1999	1999	1999
MIN	76.9	84.9	88.9	98.5	98.5	112	335	1128	584	243	120	87.6
(WY)	1999	1999	1998	2000	1998	2000	1999	1999	1998	2000	2000	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	147563		115520			
ANNUAL MEAN	404		316		356	
HIGHEST ANNUAL MEAN					397	1999
LOWEST ANNUAL MEAN					316	2000
HIGHEST DAILY MEAN	2950	May 26	1730	May 23	2950	May 26 1999
LOWEST DAILY MEAN	70	Feb 23	71	Oct 24	44	Dec 22 1998
ANNUAL SEVEN-DAY MINIMUM	73	Oct 19	73	Oct 19	47	Dec 19 1998
ANNUAL RUNOFF (AC-FT)	292700		229100		258100	
10 PERCENT EXCEEDS	1260		982		1000	
50 PERCENT EXCEEDS	160		126		136	
90 PERCENT EXCEEDS	87		85		80	

e Estimated

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, Hydrologic Unit 17010304, on right bank, 125 ft downstream from road bridge at Calder, and at mile 42.9.

DRAINAGE AREA.--1,030 mi^2, approximately.

WATER-DISCHARGE RECORDS

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 sea level. 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 fair. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53,000 ft^3/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 ft^3/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 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 14	0900	*15,400	*12.09	May 4	0800	9,840	10.44
				May 23	0400	8,820	10.06

Minimum daily, 356 ft^3/s Sept. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	439	677	1650	e850	e900	1670	2970	7010	5970	1970	696	431
2	432	572	1600	e900	e2200	1660	3380	8400	5650	1870	672	475
3	427	521	1490	e900	2100	1690	4190	8780	5580	1800	660	495
4	425	632	1270	e950	1740	1890	5180	9570	5590	1810	646	453
5	420	647	1180	951	1540	2160	6610	8660	5760	1660	628	435
6	415	761	1220	862	1380	2430	5830	7690	5790	1620	619	491
7	410	833	1210	847	1280	2440	4630	6960	5540	1590	609	481
8	450	687	1080	880	1260	2330	4090	6540	5420	1460	595	444
9	820	662	1030	878	1450	2220	4330	6530	5190	1410	582	507
10	632	633	1010	818	1570	2080	5380	6850	4780	1330	572	578
11	488	604	1010	800	1560	2060	6630	6440	4350	1270	573	704
12	461	587	1170	789	1510	1950	7430	5960	4450	1220	566	526
13	447	730	1720	755	1450	1840	9300	5600	4980	1180	544	454
14	458	752	1440	814	1370	1890	14600	5410	4600	1130	531	430
15	437	671	1320	958	1380	1860	12500	5500	4750	1100	523	415
16	419	625	1580	945	1240	1820	10400	6070	4410	1060	512	404
17	410	634	2190	1020	e1100	1760	9250	7060	4090	1030	505	398
18	409	668	3130	922	e950	1670	9240	7580	3870	994	497	396
19	406	605	3210	894	e950	1830	10300	7700	3700	971	487	389
20	401	703	2390	903	e950	1720	10200	7630	3470	942	486	384
21	397	755	1940	925	e1000	1600	10100	7950	3260	918	482	425
22	392	671	1650	886	1130	1580	11000	8370	3140	891	474	402
23	388	619	1460	849	1220	2600	10700	8610	2990	867	466	380
24	385	600	1270	827	1370	2870	8880	8080	2830	841	457	377
25	382	1630	e1100	830	1340	2720	7480	7580	2670	825	453	375
26	483	6080	e1000	828	1320	2520	6540	7170	2510	802	439	371
27	653	4330	e950	794	1330	2630	6300	6700	2400	783	432	366
28	e1000	2580	e900	767	1540	3620	7720	7110	2280	756	428	360
29	e1100	1930	e900	e650	1650	3690	7370	6570	2180	738	423	356
30	786	1750	e850	e500	---	3190	6700	6040	2080	723	420	548
31	667	---	e850	e550	---	2910	---	6530	---	710	423	---
TOTAL	15839	34149	44770	26042	39780	68900	229230	222650	124280	36271	16400	13250
MEAN	511	1138	1444	840	1372	2223	7641	7182	4143	1170	529	442
MAX	1100	6080	3210	1020	2200	3690	14600	9570	5970	1970	696	704
MIN	382	521	850	500	900	1580	2970	5410	2080	710	420	356
AC-FT	31420	67730	88800	51650	78900	136700	454700	441600	246500	71940	32530	26280
CFSM	.50	1.11	1.40	.82	1.33	2.16	7.42	6.97	4.02	1.14	.51	.43
IN.	.57	1.23	1.62	.94	1.44	2.49	8.28	8.04	4.49	1.31	.59	.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2000, BY WATER YEAR (WY)

MEAN	556	1013	1373	1190	1554	2094	5327	8049	4607	1378	610	476
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	316
(WY)	1988	1930	1953	1929	1929	1964	1975	1941	1926	1926	1940	1987

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1911 - 2000	
ANNUAL TOTAL	959192		871561			
ANNUAL MEAN	2628		2381		2353	
HIGHEST ANNUAL MEAN					3955	1974
LOWEST ANNUAL MEAN					1059	1944
HIGHEST DAILY MEAN	15500	May 26	14600	Apr 14	40000	Dec 23 1933
LOWEST DAILY MEAN	382	Oct 25	356	Sep 29	100	Nov 27 1952
ANNUAL SEVEN-DAY MINIMUM	393	Oct 19	369	Sep 23	154	Nov 23 1952
ANNUAL RUNOFF (AC-FT)	1903000		1729000		1705000	
ANNUAL RUNOFF (CFSM)	2.55		2.31		2.28	
ANNUAL RUNOFF (INCHES)	34.64		31.48		31.04	
10 PERCENT EXCEEDS	6850		6700		6470	
50 PERCENT EXCEEDS	1340		1150		1010	
90 PERCENT EXCEEDS	487		432		377	

e Estimated

SPOKANE RIVER BASIN

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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July to September 1998, May to September 1999, May to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 24.1 °C Aug. 1, 4, 2000.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 24.1 °C Aug. 1, 4.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
NOV 16...	1445	650	51	7.7	8.0	4.5	--	--	--	--
JAN 04...	1610	992	48	7.7	0.0	0.0	--	--	--	--
FEB 15...	1415	1300	50	7.5	3.0	2.5	--	--	--	--
MAR 29...	1230	3430	52	7.6	9.0	3.5	.7	12.4	100	K2
MAY 03...	1245	8720	37	7.5	13.0	5.8	.5	11.6	100	<1
JUN 01...	0800	5810	36	7.0	9.0	6.4	.3	10.0	86	K4
JUL 06...	0915	1580	48	7.2	20.0	12.0	.3	12.8	128	K4
AUG 09...	0910	580	62	7.2	22.0	18.2	.6	--	--	K12
SEP 06...	1510	686	64	7.6	23.0	12.6	<.5	8.7	87	K10

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD PET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB PET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD PET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 16...	--	23	6.8	1.5	1.2	--	--	--	--	<.3
JAN 04...	--	22	6.6	1.5	--	--	--	--	--	--
FEB 15...	--	22	6.5	1.5	--	--	--	--	--	--
MAR 29...	K1	22	6.3	1.4	--	--	30	0	24	--
MAY 03...	<1	--	--	--	--	--	--	--	--	--
JUN 01...	K3	--	--	--	--	--	--	--	--	--
JUL 06...	K8	--	--	--	--	--	--	--	--	--
AUG 09...	K13	--	--	--	--	--	--	--	--	--
SEP 06...	K6	28	8.3	1.7	1.3	.7	37	0	30	.9

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)
NOV 16...	<.3	<.1	9.6	.007	<.002	<.1	<.008	.001	<1	<1
JAN 04...	--	--	--	.009	.007	<.1	<.008	<.001	<1	<1
FEB 15...	--	--	--	<.005	<.002	<.1	E.006	.002	<1	<1
MAR 29...	--	--	--	<.005	<.002	<.1	E.007	.002	<1	<1
MAY 03...	--	--	--	.014	.005	<.1	E.004	.001	--	--
JUN 01...	--	--	--	<.005	.002	<.1	.008	<.001	--	--
JUL 06...	--	--	--	.005	<.002	.1	E.005	.003	--	--
AUG 09...	--	--	--	<.005	.009	E.07	<.008	.001	--	--
SEP 06...	E.2	<.1	9.6	<.005	.003	E.06	<.008	<.001	--	--

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV 16...	E20.3	E7	<1	<1	1.5	1	<1	<1	--	--
JAN 04...	28.6	E7	<1	<1	1.4	<1	3	1.5	--	--
FEB 15...	51.1	E8	<1	<1	1.9	1	1	<1	--	--
MAR 29...	98.9	E6	<1	<1	2.9	<1	1	<1	3	28
MAY 03...	--	--	--	--	--	--	--	--	15	353
JUN 01...	--	--	--	--	--	--	--	--	3	47
JUL 06...	--	--	--	--	--	--	--	--	2	8.5
AUG 09...	--	--	--	--	--	--	--	--	1	1.6
SEP 06...	--	--	--	--	--	--	--	--	1	1.9

E Positive detection but below stated detection limit.
K Results based on counts outside ideal colony range.

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

WATER TEMPERATURE, DEGREES CELSIUS, MAY TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	---	---	---
2	---	---	---	---	---	---
3	---	---	---	---	---	---
4	---	---	---	6.1	5.3	5.7
5	---	---	---	6.4	5.1	5.7
6	---	---	---	6.6	5.0	5.8
7	---	---	---	7.3	4.8	6.0
8	---	---	---	6.9	5.0	5.9
9	---	---	---	6.9	5.9	6.4
10	---	---	---	6.6	5.5	5.9
11	---	---	---	5.8	4.2	4.7
12	---	---	---	6.7	4.4	5.3
13	---	---	---	8.4	4.8	6.4
14	---	---	---	7.9	6.4	7.1
15	---	---	---	9.3	6.2	7.6
16	---	---	---	9.5	6.7	8.1
17	---	---	---	9.3	7.2	8.2
18	---	---	---	9.0	6.6	7.8
19	---	---	---	8.4	6.7	7.2
20	---	---	---	8.7	6.4	7.4
21	---	---	---	8.6	7.3	7.9
22	---	---	---	9.6	7.2	8.3
23	---	---	---	9.2	7.3	8.3
24	---	---	---	8.7	6.9	7.8
25	---	---	---	9.2	7.0	8.0
26	---	---	---	8.9	7.3	7.8
27	---	---	---	7.9	6.7	7.3
28	---	---	---	8.4	7.0	7.7
29	---	---	---	8.4	6.7	7.5
30	---	---	---	7.9	6.2	7.1
31	---	---	---	7.6	6.7	7.1
MONTH	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.5	6.2	7.7	15.6	13.4	14.6	24.1	18.6	20.9	16.0	14.6	15.5
2	9.5	7.6	8.7	15.6	12.9	14.4	23.7	18.4	20.7	14.6	12.9	13.9
3	10.9	7.9	9.3	14.9	11.4	12.7	23.9	18.4	20.7	16.2	12.0	13.7
4	11.2	8.4	9.9	11.7	10.3	10.9	24.1	18.9	21.0	16.2	12.8	14.2
5	10.9	9.0	9.8	11.8	10.0	11.0	23.6	18.3	20.5	13.5	12.1	12.9
6	10.9	8.6	9.8	12.8	11.4	12.0	23.4	18.3	20.4	13.4	11.7	12.2
7	11.8	8.9	10.3	15.4	11.5	13.2	23.4	18.0	20.3	16.4	11.0	13.3
8	11.5	8.9	9.8	15.1	12.9	14.0	23.7	17.6	20.1	13.2	11.7	12.6
9	8.9	7.8	8.1	15.4	12.0	13.7	23.0	18.0	20.2	12.6	10.9	11.6
10	7.8	6.9	7.2	16.4	13.4	15.0	22.4	18.6	20.4	11.7	11.0	11.4
11	7.8	6.4	7.1	17.5	14.0	15.8	22.0	18.4	20.0	13.8	10.7	12.0
12	8.1	7.5	7.8	18.4	14.9	16.7	20.9	16.4	18.5	16.0	11.7	13.6
13	9.6	7.6	8.5	19.2	16.2	17.7	20.5	15.9	18.1	17.8	13.1	15.1
14	9.5	8.4	8.6	19.4	16.4	18.0	20.4	15.6	17.9	18.8	13.8	16.0
15	10.7	7.8	9.2	19.7	16.7	18.1	20.4	15.6	17.8	18.0	14.6	16.0
16	11.5	7.9	9.8	18.8	15.6	17.3	20.5	15.1	17.7	18.4	14.6	16.3
17	11.2	8.6	10.0	19.4	15.9	17.6	20.4	14.9	17.5	19.6	15.2	17.0
18	10.9	8.9	9.9	19.2	16.4	17.7	20.4	15.7	17.8	16.7	15.2	15.9
19	10.7	9.2	9.9	20.4	16.4	18.2	18.4	15.2	16.7	17.5	14.3	15.6
20	12.6	8.6	10.4	20.9	17.0	18.9	18.0	13.8	15.7	14.6	12.1	13.2
21	12.3	9.8	11.2	21.0	17.2	19.0	18.9	13.4	15.9	12.1	9.8	11.2
22	14.3	10.6	12.4	20.1	17.6	18.8	19.4	13.8	16.4	11.8	8.3	9.7
23	13.8	10.9	12.4	21.2	17.0	18.8	19.9	14.3	16.9	11.2	6.7	8.7
24	12.8	10.4	11.2	21.5	16.8	19.0	20.2	15.7	17.6	11.2	6.4	8.5
25	13.8	9.2	11.5	21.5	17.0	19.0	21.0	16.2	18.4	11.5	6.7	8.9
26	14.8	11.4	13.2	21.5	17.2	19.2	20.1	16.2	17.9	11.8	7.2	9.2
27	15.6	12.0	13.9	21.9	17.2	19.3	18.0	14.8	16.2	12.1	7.3	9.5
28	15.9	12.6	14.4	22.4	17.2	19.5	18.4	13.1	15.6	11.7	7.8	9.5
29	15.7	13.2	14.7	23.4	18.0	20.3	18.3	13.2	15.5	9.5	8.4	9.0
30	16.0	12.9	14.6	23.2	18.4	20.6	19.2	14.6	16.6	10.0	9.0	9.4
31	---	---	---	22.9	18.8	20.3	18.0	14.6	16.2	---	---	---
MONTH	16.0	6.2	10.4	23.4	10.0	16.8	24.1	13.1	18.3	19.6	6.4	12.5

SPOKANE RIVER BASIN

12414900 ST. MARIES RIVER NEAR SANTA, ID

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

DRAINAGE AREA.--275 mi^2.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 2,574.56 ft above sea level.

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

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 18	1600	1,610	6.99	Feb. 2	1530	1,820	7.18
				Apr. 15	0215	*3,360	*8.37

Minimum daily, 46 ft^3/s Aug. 26-30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	90	189	e130	281	776	803	727	496	171	70	56
2	50	75	228	e130	1630	748	923	843	422	164	67	67
3	51	70	250	e140	1100	784	1130	856	385	157	66	75
4	51	74	167	e140	700	908	1290	972	361	163	65	62
5	50	72	159	e130	518	1040	1540	867	350	156	62	58
6	50	104	148	e130	421	1050	1330	783	340	154	62	63
7	50	112	163	e130	381	892	1080	700	329	156	61	61
8	54	84	144	e130	380	804	911	656	321	143	60	58
9	105	83	134	e130	525	738	915	676	355	140	58	73
10	86	80	130	e130	544	691	1020	712	379	131	57	96
11	65	76	132	e130	480	779	1140	719	375	125	57	165
12	61	73	316	e130	426	738	1240	825	438	120	56	85
13	60	77	774	e150	384	665	1450	732	586	115	55	68
14	59	74	387	183	409	836	2660	669	424	110	54	62
15	58	67	e280	361	607	854	3040	640	392	106	54	59
16	55	64	508	410	495	778	2380	625	356	104	53	56
17	55	73	815	483	441	789	1860	621	330	102	52	56
18	56	124	1380	375	385	690	1630	601	310	99	51	54
19	56	90	953	296	334	1060	1570	602	299	97	50	54
20	56	112	553	261	324	825	1430	590	287	93	50	53
21	56	128	413	237	333	687	1340	564	265	91	51	61
22	55	93	334	221	393	685	1410	549	251	89	49	59
23	55	83	277	201	627	1420	1310	528	236	88	48	54
24	54	80	e200	191	743	1180	1100	504	225	86	48	54
25	54	373	e180	187	596	1020	951	476	219	83	47	53
26	68	1220	e160	187	539	869	841	452	206	81	46	53
27	139	571	e150	179	641	913	794	441	195	79	46	52
28	225	276	e130	171	891	1150	906	497	186	77	46	51
29	197	200	e130	e110	836	1060	820	422	181	75	46	51
30	116	184	e130	e120	---	884	732	421	177	73	46	63
31	90	---	e130	e170	---	801	---	620	---	72	47	---
TOTAL	2287	4882	10044	6073	16364	27114	39546	19890	9676	3500	1680	1932
MEAN	73.8	163	324	196	564	875	1318	642	323	113	54.2	64.4
MAX	225	1220	1380	483	1630	1420	3040	972	586	171	70	165
MIN	50	64	130	110	281	665	732	421	177	72	46	51
AC-FT	4540	9680	19920	12050	32460	53780	78440	39450	19190	6940	3330	3830
CFSM	.27	.59	1.18	.71	2.05	3.18	4.79	2.33	1.17	.41	.20	.23
IN.	.31	.66	1.36	.82	2.21	3.67	5.35	2.69	1.31	.47	.23	.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000, BY WATER YEAR (WY)

MEAN	72.9	141	227	351	542	704	894	757	361	128	68.7	63.1
MAX	132	422	732	1637	1936	2166	1976	1671	1012	230	103	91.2
(WY)	1969	1996	1996	1974	1996	1972	1997	1997	1974	1997	1975	1997
MIN	36.3	45.7	54.8	47.6	84.7	153	282	186	84.3	54.4	30.6	32.4
(WY)	1988	1988	1979	1979	1994	1977	1992	1992	1992	1994	1994	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1966 - 2000	
ANNUAL TOTAL	156841		142988			
ANNUAL MEAN	430		391		358	
HIGHEST ANNUAL MEAN					711	1974
LOWEST ANNUAL MEAN					134	1977
HIGHEST DAILY MEAN	2880	Feb 25	3040	Apr 15	10800	Feb 9 1996
LOWEST DAILY MEAN	49	Sep 21	46	Aug 26	25	Nov 29 1979
ANNUAL SEVEN-DAY MINIMUM	50	Oct 1	46	Aug 25	26	Aug 27 1994
ANNUAL RUNOFF (AC-FT)	311100		283600		259200	
ANNUAL RUNOFF (CFSM)	1.56		1.42		1.30	
ANNUAL RUNOFF (INCHES)	21.22		19.34		17.68	
10 PERCENT EXCEEDS	1010		917		928	
50 PERCENT EXCEEDS	260		186		155	
90 PERCENT EXCEEDS	56		54		54	

e Estimated

SPOKANE RIVER BASIN

12414900 ST MARIES RIVER NEAR SANTA, ID--Continued

WATER QUALITY RECORDS

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

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
NOV										
16...	1150	65	52	7.7	10.0	4.0	21	6.1	1.4	2.5
JAN										
04...	1245	138	42	7.6	2.5	0.0	16	4.5	1.1	--
FEB										
15...	1120	626	37	7.3	3.0	1.0	12	3.3	.90	--
MAR										
29...	0900	1090	30	7.3	7.5	3.0	10	2.8	.74	--

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV										
16...	1.2	1.2	<.1	19	<.005	<.002	.1	.015	.005	<1
JAN										
04...	--	--	--	--	.016	.011	E.08	.015	<.001	<1
FEB										
15...	--	--	--	--	.011	<.002	.2	.043	.009	<1
MAR										
29...	--	--	--	--	.005	<.002	.1	.036	.007	<1

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV									
16...	<1	316	140	<1	<1	6.9	5	<1	1.9
JAN									
04...	<1	354	120	<1	<1	11	9	4	<1
FEB									
15...	<1	739	110	<1	<1	21	10	1	3.0
MAR									
29...	<1	605	75	<1	<1	18	6	4	2.0

E Positive detection but below stated detection limit.

SPOKANE RIVER BASIN

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

LOCATION.--Lat 47°39'55", long 116°46'13", in NE¼NW¼SE¼ sec.24, T.50 N., R.4 W., Kootenai County, Hydrologic Unit 17010303, 500 ft southwest of south end of Eleventh Street, Coeur d'Alene, and 113.1 mi upstream from mouth of Spokane River.

DRAINAGE AREA.--3,700 mi^2, 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. The Washington Water Power Co. 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, 444,900 acre-ft Apr. 22, 24, elevation, 2,131.98 ft; minimum, 66,120 acre-ft Jan. 31, Feb. 1, elevation, 2,122.46 ft.

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

22.0	53,700	28.0	238,500
24.0	107,900	30.0	339,700
26.0	162,900	32.0	446,000

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.54	25.24	25.75	24.04	22.66	24.79	26.29	29.66	27.51	27.93	27.94	27.90
2	26.48	25.21	25.76	23.89	23.35	24.87	26.29	29.54	27.47	27.94	27.93	27.93
3	26.40	25.22	25.71	23.77	23.92	24.96	26.40	29.50	27.40	27.90	27.94	27.94
4	26.32	25.12	25.61	23.69	24.24	25.13	26.60	29.50	27.36	27.88	27.95	27.94
5	26.25	25.09	25.52	23.56	24.38	25.36	26.93	29.51	27.41	27.85	27.94	27.95
6	26.19	25.11	25.44	23.44	24.45	25.63	27.26	29.39	27.44	27.83	27.94	27.93
7	26.13	25.07	25.28	23.32	24.45	25.81	27.38	29.19	27.49	27.83	27.93	27.90
8	26.12	25.03	25.12	23.27	24.45	25.90	27.35	28.95	27.62	27.84	27.92	27.90
9	26.07	24.96	25.01	23.19	24.47	25.94	27.29	28.77	27.68	27.83	27.90	27.86
10	26.01	24.91	24.83	23.11	24.51	25.93	27.27	28.56	27.72	27.82	27.95	27.92
11	25.97	24.85	24.72	23.07	24.54	25.96	27.38	28.46	27.72	27.81	27.90	27.93
12	25.93	24.82	24.73	22.98	24.56	25.95	27.62	28.33	27.81	27.81	27.86	27.91
13	25.89	24.78	24.88	22.93	24.53	25.97	28.10	28.15	27.87	27.82	27.86	27.87
14	25.79	24.76	24.94	22.93	24.54	25.96	29.12	27.94	27.89	27.82	27.83	27.83
15	25.75	24.74	25.19	22.92	24.50	25.91	30.28	27.75	27.89	27.83	27.82	27.80
16	25.71	24.68	25.35	23.01	24.42	25.91	31.16	27.62	27.91	27.84	27.80	27.75
17	25.65	24.71	25.64	23.05	24.33	25.85	31.56	27.58	27.90	27.87	27.81	27.72
18	25.58	24.61	25.87	23.08	24.23	25.79	31.74	27.58	27.86	27.87	27.83	27.66
19	25.51	24.57	26.19	23.07	24.11	25.74	31.83	27.62	27.82	27.88	27.82	27.61
20	25.44	24.49	26.29	23.07	24.01	25.70	31.91	27.63	27.82	27.90	27.82	27.56
21	25.39	24.47	26.24	23.07	23.94	25.60	31.92	27.62	27.79	27.91	27.82	27.47
22	25.35	24.41	26.09	23.02	23.92	25.54	31.92	27.65	27.79	27.96	27.83	27.42
23	25.32	24.34	25.88	22.96	24.02	25.67	31.94	27.68	27.81	27.96	27.85	27.38
24	25.28	24.32	25.63	22.90	24.13	25.84	31.82	27.70	27.81	27.95	27.85	27.32
25	25.24	24.37	25.39	22.88	24.20	25.95	31.60	27.66	27.82	27.94	27.87	27.26
26	25.20	24.98	25.15	22.85	24.25	25.99	31.20	27.63	27.83	27.93	27.88	27.21
27	25.24	25.57	24.92	22.77	24.36	26.02	30.82	27.61	27.86	27.89	27.85	27.15
28	25.30	25.75	24.70	22.70	24.51	26.14	30.45	27.57	27.87	27.89	27.85	27.09
29	25.31	25.82	24.49	22.62	24.67	26.26	30.19	27.51	27.87	27.90	27.87	27.03
30	25.31	25.80	24.29	22.54	---	26.33	29.92	27.49	27.89	27.90	27.88	27.04
31	25.28	---	24.16	22.46	---	26.33	---	27.50	---	27.93	27.92	---
MEAN	25.74	24.93	25.32	23.10	24.23	25.77	29.38	28.22	27.73	27.88	27.88	27.64
MAX	26.54	25.82	26.29	24.04	24.67	26.33	31.94	29.66	27.91	27.96	27.95	27.95
MIN	25.20	24.32	24.16	22.46	22.66	24.79	26.29	27.49	27.36	27.81	27.80	27.03
†	142900	157300	112300	66100	126200	172600	335500	215400	233200	235100	234700	196800
‡	-38900	14400	-45000	-46200	60100	46400	162900	-120100	17800	1900	-400	-37900

CAL YR 1999 MEAN 26.49 MAX 30.31 MIN 23.26 ‡ -11200
WTR YR 2000 MEAN 26.49 MAX 31.94 MIN 22.46 ‡ 15000

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

Measuring bridge on Warmspring Creek near Mackay, Idaho. (Dec. 8, 1938)

SPOKANE RIVER BASIN

12417000 HAYDEN LAKE AT HAYDEN LAKE, ID

LOCATION.--Lat 47°44'58", long 116°44'21", in SE¼NW¼SW¼ sec.20, T.51 N., R.3 W., Kootenai County, Hydrologic Unit 17010305, at Tobler Marina, 2.3 mi east-southeast of Hayden Lake Post Office.

DRAINAGE AREA.--62.3 mi^2.

PERIOD OF RECORD.--May 1920 to current year.

REVISED RECORDS.--WDR ID-1981-2: 1980 gage heights.

GAGE.--Nonrecording gage. Datum of gage is 2,200.21 ft above sea level. Prior to Oct. 1, 1925, at datum 30.35 ft higher. Oct. 1, 1925, to Mar. 26, 1931, at datum 21.60 ft higher. Mar. 26, 1931, to Apr. 8, 1981, at Avondale pumping plant in Bozanta Tavern Bay across lake 1.5 mi northwest of present site.

REMARKS.--Water is pumped from lake for irrigation and domestic supply. Lake has no natural surface outlet. Some surface flow leaves the lake during high stages most years through a controlled outlet in the dike at the southeast corner. Due to the permeability of the lakebed and outlet area, the excess flow infiltrates to the Rathdrum Prairie aquifer.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 42.46 ft, Apr. 22, 1956; minimum observed, 19.38 ft, Dec. 16, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 40.44 ft, Apr. 21; minimum observed, 35.42 ft, Nov. 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	36.77	---	---	---	39.32	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	39.79	---	---	---	---
4	---	---	---	---	36.95	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	37.44	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	39.24	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	38.35	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	36.37	---	---	---	---	---	39.10	---	---	---
21	---	---	---	---	---	39.50	40.44	---	---	38.24	---	---
22	---	35.42	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	36.88	---
24	---	---	---	36.69	---	---	---	39.35	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	36.02
26	35.52	---	---	---	---	---	---	---	---	---	---	35.96
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	37.95	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

SPOKANE RIVER BASIN

12419000 SPOKANE RIVER NEAR POST FALLS, ID

LOCATION.--Lat 47°42'11", long 116°58'37", in SW¼SW¼SW¼ sec.4, T.50 N., R.5 W., Kootenai County, Hydrologic Unit 17010305, on right bank, 1 mi downstream from powerplant of Washington Water Power Co., 1.5 mi southwest of Post Falls, and at mile 100.7.

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

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 2,050 ft, referred to originally accepted elevation of 2,157.40 ft for the U.S. Geological Survey bench mark in southeast corner of Idaho First National Bank Building (see WSP 882). Gage datum is 2,047.00 ft above sea level. 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 except for daily discharges December to July, which are fair. Flow regulated by dam at Post Falls and affected by storage in Coeur d'Alene Lake (sta 12415500).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,300 ft^3/s Apr. 22, gage height, 20.67 ft; minimum daily, 258 ft^3/s Aug. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2120	2140	6170	6190	3570	7870	11800	22000	11400	2810	752	273
2	2110	2140	6200	6020	4130	8130	11700	21300	11500	2870	749	301
3	2110	2140	6140	5600	5160	8270	11800	21100	11300	3560	745	341
4	2100	2140	6050	5450	6290	8610	12300	21000	10500	3510	743	367
5	2100	2140	6050	5290	6560	9080	13000	21000	9350	3480	743	735
6	2110	2130	6100	5020	7150	9680	14000	20900	8880	3480	742	1030
7	2110	2550	6250	4690	7110	10300	15000	20500	8350	2900	742	1040
8	2100	2790	6310	4600	7150	10800	15100	19900	7510	2520	741	1040
9	2100	2780	6330	4600	7170	10600	15000	19300	7630	2500	739	1040
10	2100	2800	6300	4320	7190	10500	14800	18700	7650	2510	741	1040
11	2100	2800	6260	4300	7300	10500	14900	18200	7660	2490	740	1120
12	2110	2770	6230	4300	7350	9920	15300	17900	7680	2280	743	1570
13	2090	2790	6240	4170	7370	9220	16300	17500	8460	1810	742	1560
14	2080	2800	6280	4040	7290	10800	18200	16900	9000	1640	744	1560
15	1650	2800	6320	4030	7320	10800	21400	16300	8300	1310	744	1560
16	1420	2820	6550	4070	7210	10700	24700	15700	8060	1310	652	1560
17	1860	2800	7610	4080	7100	10700	26800	15500	8020	1340	426	1560
18	2090	2930	8460	4090	6790	10600	27600	15200	8020	1370	323	1550
19	2090	3020	8810	4080	6650	10400	28200	15300	7690	1180	297	1550
20	2090	3020	9920	4250	6290	10200	28500	15500	6590	1050	297	1560
21	1630	3000	10600	4330	6100	10100	28600	15500	6110	919	296	1560
22	1410	3010	10700	4330	6070	9890	28700	15500	5680	749	292	1650
23	1420	3010	10500	4140	6100	9930	28700	15300	4820	749	289	1730
24	1780	3100	10100	4050	6370	10600	28700	15400	4350	1170	283	1730
25	1970	3120	9630	4040	6640	10900	27900	15000	4330	1470	283	1730
26	1990	3430	9130	4050	6710	11100	27000	13800	3920	1470	280	1720
27	1610	4400	8410	3980	6770	11200	25700	13400	3580	1470	271	1720
28	1710	5060	7820	3900	7080	11300	24600	13300	3660	1140	271	1870
29	2040	5070	7230	3800	7480	11600	23600	13200	3740	775	265	2030
30	2150	5770	6920	3700	---	11800	22700	12500	3190	772	260	2030
31	2150	---	6530	3610	---	11900	---	11900	---	758	258	---
TOTAL	60500	91270	232150	137120	191470	318000	622600	524500	216930	57362	16193	40127
MEAN	1952	3042	7489	4423	6602	10260	20750	16920	7231	1850	522	1338
MAX	2150	5770	10700	6190	7480	11900	28700	22000	11500	3560	752	2030
MIN	1410	2130	6050	3610	3570	7870	11700	11900	3190	749	258	273
AC-FT	120000	181000	460500	272000	379800	630800	1235000	1040000	430300	113800	32120	79590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2000, BY WATER YEAR (WY)

MEAN	1735	2892	4936	5242	6307	8252	14460	17580	9663	2106	945	1182
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	996	1025	1751	3558	5141	1584	851	185	188
(WY)	1964	1936	1936	1931	1929	1929	1977	1992	1926	1994	1958	1949

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1913 - 2000	
ANNUAL TOTAL	2829651		2508222			
ANNUAL MEAN	7752		6853		6246	
HIGHEST ANNUAL MEAN					11600	1974
LOWEST ANNUAL MEAN					2143	1977
HIGHEST DAILY MEAN	23500	May 31	28700	Apr 22	49800	Dec 25 1933
LOWEST DAILY MEAN	453	Sep 3	258	Aug 31	67	Jul 24 1973
ANNUAL SEVEN-DAY MINIMUM	501	Sep 2	268	Aug 26	108	Aug 10 1966
ANNUAL RUNOFF (AC-FT)	5613000		4975000		4525000	
10 PERCENT EXCEEDS	17100		15500		17300	
50 PERCENT EXCEEDS	6310		4640		3020	
90 PERCENT EXCEEDS	1420		749		909	

12419000 SPOKANE RIVER NEAR POST FALLS, ID--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May to September 1998, May to September 1999 (discontinued).
SPECIFIC CONDUCTANCE: February 1999 to current year.

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 27.1 °C July 29, 1998.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 57 microsiemens/cm Aug 30 to Sept. 4, 2000; minimum recorded daily mean, 42 microsiemens/cm May 6-8, June 14-15. 2000.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 26.0 °C Aug. 9.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 57 microsiemens/cm Aug 30 to Sept. 4; minimum recorded daily mean, 42 microsiemens/cm May 6-8, June 14-15.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
NOV 15...	0950	2790	46	7.5	8.0	10.5	--	--	--	--
JAN 03...	1005	5990	47	7.5	0.0	5.0	--	--	--	--
FEB 17...	1430	7120	49	7.0	1.0	3.5	--	--	--	--
MAR 28...	1520	11300	56	7.5	7.5	3.8	.6	12.9	105	K2
MAY 11...	0940	18300	46	7.1	3.5	9.5	.7	12.1	114	K2
JUN 12...	1015	7700	45	7.4	12.0	14.3	.4	8.3	87	K8
JUL 05...	1200	3470	47	6.9	22.0	19.0	.4	10.5	121	K13
AUG 09...	1540	739	52	7.4	34.0	25.7	.7	--	--	56
SEP 06...	1000	1040	58	7.4	14.0	18.7	.5	8.9	101	K14

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 15...	--	19	5.1	1.5	1.6	--	--	--	--	<.3
JAN 03...	--	20	5.3	1.6	--	--	--	--	--	--
FEB 17...	--	20	5.2	1.6	--	--	--	--	--	--
MAR 28...	K4	21	5.5	1.7	--	--	24	0	19	--
MAY 11...	K2	--	--	--	--	--	--	--	--	--
JUN 12...	24	--	--	--	--	--	--	--	--	--
JUL 05...	84	--	--	--	--	--	--	--	--	--
AUG 09...	30	--	--	--	--	--	--	--	--	--
SEP 06...	47	21	5.6	1.6	2.4	.8	25	0	20	4.1

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)
NOV 15...	<.3	<.1	9.0	.047	<.002	.1	.017	.007	<1	<1
JAN 03...	--	--	--	.066	.021	E.08	.011	.004	<1	<1
FEB 17...	--	--	--	.049	.006	.2	.008	.004	<1	<1
MAR 28...	--	--	--	.077	<.002	E.09	.009	.002	<1	<1
MAY 11...	--	--	--	.021	.007	.2	<.008	.003	--	--
JUN 12...	--	--	--	.020	.006	.1	E.007	<.001	--	--
JUL 05...	--	--	--	.038	<.002	E.1	E.004	.002	--	--
AUG 09...	--	--	--	.10	.009	.2	E.006	<.001	--	--
SEP 06...	1.5	<.1	8.6	.18	.013	.1	.009	.001	--	--

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV 15...	21.3	<10	<1	<1.0	3.2	1	51	47.8	--	--
JAN 03...	40.8	E5	<1	1.0	4.7	1	70	63.9	--	--
FEB 17...	36.3	E6	<1	<1	4.1	<1	74	74.8	--	--
MAR 28...	93.2	19	<1	1.4	4.4	1	81	77.4	2	61
MAY 11...	--	--	--	--	--	--	--	--	2	99
JUN 12...	--	--	--	--	--	--	--	--	2	42
JUL 05...	--	--	--	--	--	--	--	--	1	9.4
AUG 09...	--	--	--	--	--	--	--	--	1	2.0
SEP 06...	--	--	--	--	--	--	--	--	2	5.6

E Positive detection but below stated detection limit.
K Results based on counts outside ideal colony range.

SPOKANE RIVER BASIN

12419000 SPOKANE RIVER NEAR POST FALLS, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, MAY TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	14.5	13.0	20.5	19.5	25.0	24.0	21.0	20.0
2	---	---	14.5	14.0	20.5	20.0	25.5	24.0	20.0	19.5
3	---	---	15.5	14.5	20.0	19.5	25.5	24.5	20.5	19.0
4	9.5	9.5	16.0	15.0	19.5	18.5	25.5	24.5	20.0	19.0
5	9.5	9.0	16.5	15.5	18.5	18.0	25.5	24.5	19.5	18.5
6	10.0	9.0	16.5	16.5	19.0	18.5	25.5	24.5	19.0	18.5
7	10.5	9.5	16.5	16.0	19.0	18.5	25.5	24.5	18.5	18.0
8	10.5	9.5	16.5	15.0	19.5	18.5	25.5	24.5	18.0	17.5
9	10.5	10.0	15.5	15.0	20.0	19.0	26.0	24.5	17.5	17.0
10	10.5	9.5	15.5	14.5	20.0	19.0	25.5	24.5	17.0	17.0
11	10.0	9.5	14.5	14.0	21.0	20.0	25.0	24.0	17.5	17.0
12	10.0	9.5	14.5	14.5	21.0	20.0	25.0	23.5	17.5	17.0
13	11.0	9.5	15.0	14.5	21.5	20.5	24.5	23.5	18.0	17.0
14	11.0	10.0	15.0	15.0	22.0	21.0	24.0	23.0	18.5	17.5
15	12.0	10.5	15.5	15.0	21.0	20.0	24.0	23.0	18.5	18.0
16	12.0	10.5	15.5	15.0	22.0	20.5	24.0	22.5	19.0	18.5
17	12.0	10.5	16.0	15.5	22.5	20.5	24.0	22.0	19.0	18.5
18	11.5	10.5	16.0	16.0	23.0	21.5	23.5	22.0	19.0	18.5
19	11.0	10.5	16.5	16.0	22.5	21.5	22.5	21.5	19.0	18.5
20	12.0	11.0	16.5	16.0	23.0	21.0	23.0	21.0	18.5	18.0
21	12.5	11.5	17.0	16.5	---	---	23.0	21.0	18.0	17.0
22	13.5	12.0	17.5	17.0	---	---	23.0	21.0	17.0	15.5
23	13.5	12.5	17.5	17.0	---	---	23.5	21.0	15.5	15.0
24	13.5	12.5	17.5	17.0	---	---	23.5	21.5	15.0	14.5
25	14.0	13.0	17.5	17.0	24.0	22.5	23.5	21.5	15.5	14.5
26	13.5	13.0	18.5	17.0	24.0	22.5	23.0	21.0	15.5	15.0
27	14.0	13.0	19.0	17.5	23.5	22.5	22.5	21.0	15.5	15.0
28	14.0	13.0	19.0	18.0	---	---	22.5	20.5	15.5	15.0
29	14.0	13.0	19.5	18.5	---	---	22.0	20.0	15.5	15.0
30	14.0	13.5	19.5	19.0	---	---	22.5	20.5	15.5	15.5
31	14.0	13.0	---	---	---	---	21.5	20.0	---	---
MONTH	---	---	19.5	13.0	---	---	26.0	20.0	21.0	14.5

SPECIFIC CONDUCTANCE, MICROSIEMENS AT 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	44	44	48	57
2	---	---	---	---	---	---	---	---	43	44	49	57
3	---	---	---	---	---	---	---	---	43	44	49	57
4	---	---	---	---	---	---	---	44	43	44	50	57
5	---	---	---	---	---	---	---	44	43	44	50	55
6	---	---	---	---	---	---	---	42	43	44	50	54
7	---	---	---	---	---	---	---	42	43	44	50	55
8	---	---	---	---	---	---	---	42	43	44	51	55
9	---	---	---	---	---	---	---	43	43	45	51	54
10	---	---	---	---	---	---	---	43	43	45	51	52
11	---	---	---	---	---	---	---	43	43	45	51	51
12	---	---	---	---	---	---	---	43	43	45	51	50
13	---	---	---	---	---	---	---	43	43	45	51	51
14	---	---	---	---	---	---	---	43	42	46	51	51
15	---	---	---	---	---	---	---	43	42	49	51	50
16	---	---	---	---	---	---	---	43	43	50	51	50
17	---	---	---	---	---	---	---	43	43	50	53	50
18	---	---	---	---	---	---	---	43	43	48	54	50
19	---	---	---	---	---	---	---	44	43	48	54	50
20	---	---	---	---	---	---	---	43	43	50	54	50
21	---	---	---	---	---	---	---	43	43	---	55	50
22	---	---	---	---	---	---	---	43	43	---	56	50
23	---	---	---	---	---	---	---	43	43	---	55	50
24	---	---	---	---	---	---	---	43	43	---	55	50
25	---	---	---	---	---	---	---	43	43	48	55	50
26	---	---	---	---	---	---	---	43	43	48	55	50
27	---	---	---	---	---	---	---	43	43	48	56	50
28	---	---	---	---	---	---	---	43	44	---	56	50
29	---	---	---	---	---	---	---	43	44	---	56	50
30	---	---	---	---	---	---	---	43	44	---	57	50
31	---	---	---	---	---	---	---	43	---	---	57	---
MEAN	---	---	---	---	---	---	---	---	43	---	53	52
MAX	---	---	---	---	---	---	---	---	44	---	57	57
MIN	---	---	---	---	---	---	---	---	42	---	48	50

SPOKANE RIVER BASIN

12419500 SPOKANE RIVER ABOVE LIBERTY BRIDGE NEAR OTIS ORCHARD, WA

LOCATION.--Lat 47°40'56", long 117°05'05"in NW¼ sec.11, T.25 N., R.45 E., Spokane County, Washington, Hydrologic Unit 17010305, on left bank, 1.2 mi upstream from Liberty Bridge, 1.8 mi southeast of Otis Orchards, 3.3 mi northeast of Greenacres, at mile 93.9.

DRAINAGE AREA.--3,880 mi^2, approximately.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1959 to September 1971, April 1999 to April 2000 (discontinued).

PERIOD OF DAILY RECORDS.--
WATER TEMPERATURE: July to September 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum recorded, 24.8 °C Aug. 5, 1999.

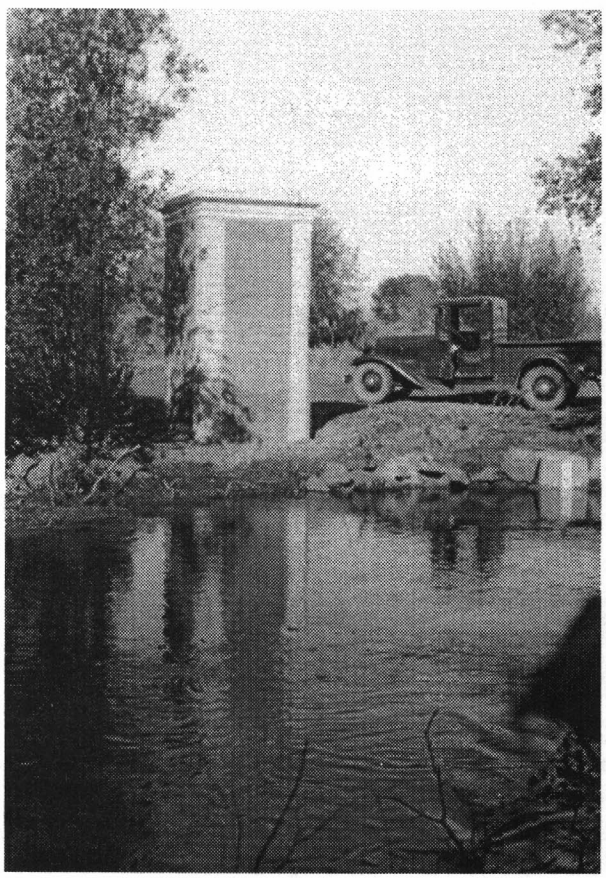
WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV										
16...	1400	2580	49	8.1	10.2	19	5.1	1.5	1.6	3.7
JAN										
06...	1530	4800	53	7.4	4.7	20	5.4	1.6	1.7	4.5
FEB										
17...	1530	6700	53	7.8	3.6	20	5.3	1.6	1.6	5.0
APR										
05...	1500	12600	55	7.8	4.8	22	5.7	1.8	1.8	4.8

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV									
16...	.4	<.1	8.7	.034	.004	.1	.02	.009	<1
JAN									
06...	.8	<.1	9.9	.077	.007	.2	.011	.005	<1
FEB									
17...	1	<.1	9.8	.050	<.002	.2	.009	.002	<1
APR									
05...	1	<.1	11	.081	.005	.1	.009	.001	<1

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV									
16...	<1	E18.3	<10	<1	<1	2.7	1	37	37
JAN									
06...	<1	35	E7	<1	1.3	5.1	1	78	66
FEB									
17...	<1	37	E5	<1	<1	3.9	<1	71	71
APR									
05...	<1	90	14	<1	1.8	4.8	1	81	79

E Positive detection but below stated detection limit.



Silver Creek near Picabo, ID (Aug. 15, 1934)

SPOKANE RIVER BASIN

12420500 SPOKANE RIVER AT GREENACRES, WA

LOCATION.--Lat 47°40'39", long 117°09'04", in SW¼NW¼ sec.8, T.25 N., R.45 E., Spokane County, Washington, Hydrologic Unit 17010305, on left bank 600 ft. upstream of Barker Road Bridge, 0.5 mi north of Greenacres, and at mile 90.5.

DRAINAGE AREA.--4,150 mi^2, approximately.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1999 to April 2000 (discontinued).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV										
16...	1200	2530	50	7.7	10.0	19	5.1	1.5	1.6	3.7
JAN										
06...	1330	4810	54	7.4	4.8	20	5.3	1.6	1.7	4.4
FEB										
17...	1430	6910	53	7.8	3.7	20	5.4	1.7	1.7	4.3
APR										
05...	1300	12800	55	7.8	5.0	21	5.6	1.8	1.8	4.7

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV									
16...	.5	<.1	8.9	.043	<.002	.1	.024	.011	<1
JAN									
06...	.9	<.1	9.9	.12	.007	E.1	.013	.007	<1
FEB									
17...	.8	<.1	10	.055	.002	.2	.012	.004	<1
APR									
05...	1.0	<.1	11	.072	.006	.1	.011	.002	<1

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV									
16...	<1	22	<10	<1	<1	3.0	<1	44	44
JAN									
06...	<1	41	E8	<1	1.4	5.4	1	70	65
FEB									
17...	<1	36	E7	<1	<1	4.1	1	72	71
APR									
05...	<1	84	13	<1	1.6	4.4	1	79	73

E Positive detection but below stated detection limit.

SPOKANE RIVER BASIN

12420800 SPOKANE RIVER AT SULLIVAN ROAD BRIDGE NEAR TRENTWOOD, WA

LOCATION.--Lat 47°40'42", long 117°11'43", on line between sec.11 and 12, T.25 N., R.44 E., Spokane County, Washington, Hydrologic Unit 17010305, at Sullivan Road, 1.8 mi northwest of Greenacres.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1999 to April 2000 (discontinued).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV										
16...	1000	2530	77	7.9	9.8	32	8.1	2.9	1.7	4.7
JAN										
06...	1300	4810	57	7.8	4.9	21	5.6	1.7	1.7	4.5
FEB										
17...	1300	6910	53	7.8	3.6	21	5.5	1.7	1.7	4.6
APR										
05...	1130	12800	55	7.8	5.0	21	5.6	1.8	1.8	4.7

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV									
16...	.7	<.1	9.2	.16	.005	.7	.016	.008	<1
JAN									
06...	.8	<.1	10	.08	.012	.1	.012	.006	<1
FEB									
17...	1.1	<.1	9.8	.16	<.002	.2	.015	.006	<1
APR									
05...	1.0	<.1	11	.07	<.002	.2	.012	.002	<1

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV									
16...	<1	E16.8	<10	<1	<1	2.5	<1	45	42
JAN									
06...	<1	44	E8	<1	1.4	5.5	1	71	65
FEB									
17...	<1	37	E6	<1	<1	4.2	1	70	70
APR									
05...	<1	82	10	<1	1.8	4.9	1	79	79

E Positive detection but below stated detection limit.

SPOKANE RIVER BASIN

12422000 SPOKANE RIVER BELOW GREEN STREET AT SPOKANE, WA

LOCATION.--Lat 47°40'40", long 117°22'20", in W½ sec.10, T.25 N., R.43 E., Spokane County, Washington, on right bank 250 ft downstream from Green Street Bridge, at Spokane, and 5.5 mi upstream from Latah Creek.

DRAINAGE.--4,230 mi^2, approximately.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1999 to April 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July to September 1999 (discontinued)

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum recorded, 19.9 °C Aug.9, 1999.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV										
15...	1530	2970	118	7.7	10.2	52	13	5.0	2.3	6.5
JAN										
06...	1015	5760	95	7.7	5.3	40	9.8	3.7	2.2	6.2
FEB										
17...	1015	7350	78	7.8	3.8	32	8.0	2.9	1.9	5.9
APR										
05...	1000	12800	69	7.9	5.4	28	7.0	2.5	1.9	5.2

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV									
15...	1.1	<.1	9.8	.35	<.002	E.08	.01	.005	<1
JAN									
06...	1	<.1	10	.24	<.002	E.07	.014	.010	<1
FEB									
17...	1.2	<.1	10	.16	.002	.2	.012	.002	<1
APR									
05...	1.1	<.1	11	.13	.005	<.1	.012	.002	<1

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV									
15...	<1	21	<10	<1	<1	3.3	2	42	40
JAN									
06...	<1	31	E6	<1	<1	4.9	2	64	55
FEB									
17...	<1	35	<10	<1	<1	4.3	1	63	64
APR									
05...	<1	104	10	1	2.1	6.2	2	77	77

E Positive detection but below stated detection limit.

SPOKANE RIVER BASIN

12422500 SPOKANE RIVER AT SPOKANE, WA

LOCATION.--Lat 47°39'34", long 117°26'53", in SW¼SW¼ sec.13, T.25 N., R.42 E., Spokane County, Washington, Hydrologic Unit 17010305, on right bank at Cochran Street in Spokane, 0.5 mi upstream from Hangman Creek, and at mile 72.9.

DRAINAGE AREA.--4,290 mi^2, approximately.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1972 to September 1973, October 1998 to April 2000 (discontinued).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV										
15...	1230	2970	118	7.9	10.5	51	12	4.9	2.3	6.6
JAN										
04...	1430	6030	93	8.0	5.7	39	9.5	3.7	2.0	5.8
FEB										
15...	1300	7030	81	8.0	4.1	33	8.1	3.1	2.1	5.8
APR										
03...	1200	11500	70	7.5	5.9	29	7.3	2.6	1.9	5.3

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)
NOV										
15...	1.2	<.1	9.6	.34	<.002	.2	.016	.007	<1	.12
JAN										
04...	1.3	<.1	10	.23	.010	E.09	.01	.003	<1	<1
FEB										
15...	1.9	<.1	10	.06	.004	.2	.013	.005	<1	<1
APR										
03...	1.1	<.1	11	.14	.002	.1	.009	.001	<1	<1

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV										
15...	E20.9	<10	<1	<1	3.3	2	29	30	23	184
JAN										
04...	70	E6	<1	1.2	5.4	2	55	54	--	--
FEB										
15...	66	<10	<1	1.1	4.8	1	64	62	--	--
APR										
03...	66	10	1	1.3	3.8	1	79	74	--	--

E Positive detection but below stated detection limit.

SPOKANE RIVER BASIN

12424000 HANGMAN CREEK AT SPOKANE, WA

LOCATION.--Lat 47°39'10", long 117°26'55", in NW¼ sec.24, T.25 N., R.42 E., Spokane County, Washington, Hydrologic Unit 17010306, on left bank in Spokane, and at mile 0.8.

DRAINAGE AREA.--689 mi^2, approximately.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1977, April 1999 to April 2000 (discontinued).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV										
15...	1400	39.5	373	8.6	8.5	160	41	14	14	16
JAN										
05...	1015	89.0	267	8.3	1.1	110	28	9.1	11	13
FEB										
16...	1100	762	167	7.9	2.2	53	14	4.4	7.3	10
APR										
03...	1400	277	199	8.1	11.8	76	20	6.4	8.9	10

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV									
15...	9.3	.2	23	.83	.004	.3	.035	.021	<1
JAN									
05...	5.8	.1	31	3.2	.018	.3	.093	.063	<1
FEB									
16...	2.7	.1	24	5.9	.005	1	.21	.072	<1
APR									
03...	3.9	<.1	30	2.9	.003	.3	.095	.042	<1

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV									
15...	<1	71	20	<1	<1	17	7	<1	<1.0
JAN									
05...	<1	543	14	<1	<1	22	12	2	2.2
FEB									
16...	<1	3410	14	<1	2.9	73	5	1	9.5
APR									
03...	<1	803	27	<1	<1	26	12	3	2.6

SPOKANE RIVER BASIN

12433000 SPOKANE RIVER AT LONG LAKE, WA

LOCATION.--Lat 47°50'12", long 117°50'25", NW¼SW¼ sec.13, T.27 N., R.39 E., Lincoln County, Washington, Hydrologic Unit 17010307, on left bank at Long Lake powerhouse, 1.4 mi upstream from Chamokane Creek, 12 mi north of Reardan, and at mile 33.88.

DRAINAGE AREA.--6,020 mi^2, approximately.

WATER-QUALITY RECORDS

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

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV										
15...	1030	6480	199	8.0	9.5	87	21	8.4	4.4	9.7
JAN										
04...	1115	7230	95	8.0	5.3	39	9.7	3.4	2.6	5.7
FEB										
15...	1030	7100	125	7.9	4.3	50	13	4.6	3.5	7.6
APR										
03...	1000	13700	97	7.7	6.9	39	10	3.5	2.9	6.0

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV									
15...	3.6	<.1	11	.94	.034	.2	.039	.031	<1
JAN									
04...	1.6	<.1	11	.46	.020	E.09	.031	.020	<1
FEB									
15...	2.5	<.1	14	1.5	.018	.3	.081	.038	<1
APR									
03...	1.8	<.1	13	.46	.004	.2	.065	.015	<1

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV									
15...	<1	54	<10	<1	<1	20	12	8	10
JAN									
04...	<1	135	E6	<1	<1	8.4	<1	39	38
FEB									
15...	<1	713	E7	<1	1.1	25	7	24	36
APR									
03...	<1	177	14	<1	<1	12	8	46	48

E Positive detection but below stated detection limit.

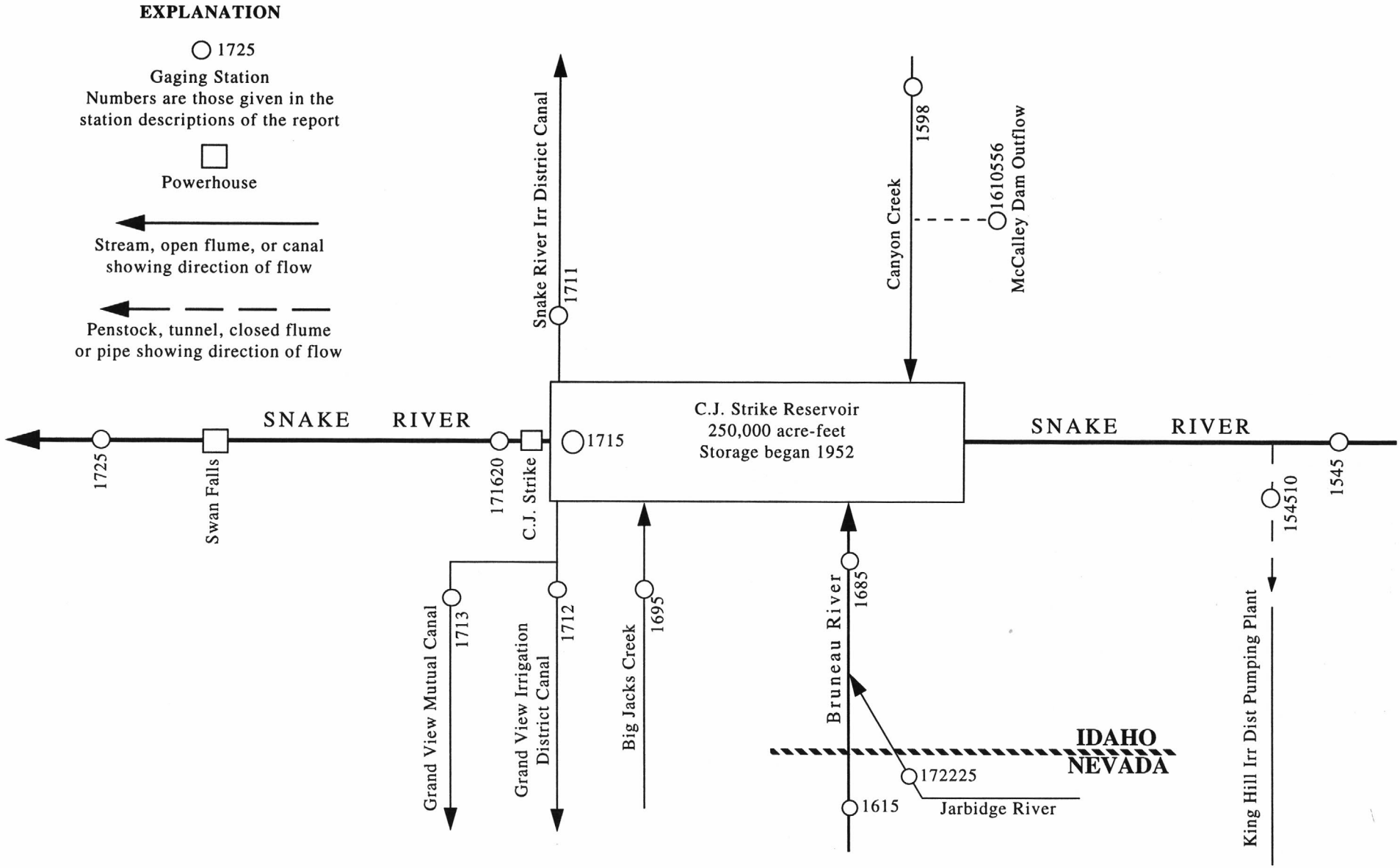


Figure 13. Gaging stations in the Snake River basin between King Hill and Murphy and the Bruneau River basin.

DIVERSIONS FROM SNAKE RIVER
BETWEEN SNAKE RIVER AT KING HILL AND SNAKE RIVER BELOW C.J. STRIKE DAM

13154510 KING HILL IRRIGATION DISTRICT PUMPING PLANT AT KING HILL, ID

LOCATION.--Lat 43°00'04", long 115°12'30", in NW¼SE¼ sec.12, T.5 S., R.10 E., Elmore County, Hydrologic Unit 17050101, on left bankof Snake River (temporarily moved to right bank from April 1999, due to bridge construction) , 0.25 mi southwest of King Hill.

PERIOD OF RECORD.--April 1988 to current year (irrigation seasons only).

GAGE.--In-line flow sensor with datalogger.

REMARKS.--Records good except for estimated daily discharges, which are fair. In-line flow sensor rated by ultrasonic flowmeter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 24 ft^3/s Aug. 30 to Sept. 1, 1995; no flow for long periods each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	.00	---	---	---	---	.00	15	15	19	17	12
2	15	.00	---	---	---	---	.00	15	16	19	18	11
3	15	.00	---	---	---	---	.00	15	18	19	19	9.9
4	15	.00	---	---	---	---	.00	16	19	19	19	e10
5	15	.00	---	---	---	---	.00	16	19	19	18	e10
6	14	.00	---	---	---	---	.00	16	19	19	17	e10
7	12	.00	---	---	---	---	.00	12	20	19	17	e10
8	11	.00	---	---	---	---	.00	10	21	19	17	e10
9	9.7	.00	---	---	---	---	.00	10	19	19	17	e10
10	4.6	.00	---	---	---	---	.00	10	19	19	17	e10
11	.00	.00	---	---	---	.00	4.3	10	19	19	17	e8.0
12	.00	.00	---	---	---	.00	11	7.6	18	18	17	e6.5
13	.00	.00	---	---	---	.00	13	6.5	17	21	17	e8.5
14	.00	.00	---	---	---	.00	12	6.5	18	21	17	e10
15	.00	.00	---	---	---	.00	13	6.4	18	19	17	10
16	.00	.00	---	---	---	.00	14	6.5	18	19	18	11
17	.00	---	---	---	---	.00	15	7.6	18	19	19	12
18	.00	---	---	---	---	.00	15	7.5	18	19	20	12
19	.00	---	---	---	---	.00	15	8.3	18	19	20	12
20	.00	---	---	---	---	.00	15	7.5	18	18	20	12
21	.00	---	---	---	---	.00	15	7.5	18	17	18	13
22	.00	---	---	---	---	.00	15	9.5	16	17	17	15
23	.00	---	---	---	---	.00	15	9.5	18	17	17	15
24	.00	---	---	---	---	.00	15	9.4	17	17	17	15
25	.00	---	---	---	---	.00	12	9.4	20	17	17	15
26	.00	---	---	---	---	.00	12	11	18	17	17	15
27	.00	---	---	---	---	.00	e15	12	17	17	17	15
28	.00	---	---	---	---	.00	e15	12	20	17	16	15
29	.00	---	---	---	---	.00	15	12	20	17	14	15
30	.00	---	---	---	---	.00	15	14	20	17	14	15
31	.00	---	---	---	---	.00	---	14	---	17	13	---
TOTAL	126.30	---	---	---	---	---	271.30	329.7	549	569	535	352.9
MEAN	4.07	---	---	---	---	---	9.04	10.6	18.3	18.4	17.3	11.8
MAX	15	---	---	---	---	---	15	16	21	21	20	15
MIN	.00	---	---	---	---	---	.00	6.4	15	17	13	6.5
AC-FT	251	---	---	---	---	---	538	654	1090	1130	1060	700

e Estimated

CANYON CREEK BASIN

13159800 CANYON CREEK AT OREGON TRAIL CROSSING NEAR MOUNTAIN HOME, ID

LOCATION.--Lat 43°15'39", long 115°42'06", in SE¼NW¼SE¼ sec.11, T.2 S., R.6 E., Hydrologic Unit 17050101, on right bank, 31 mi upstream from mouth, 3 mi downstream from confluence of Syrup Creek and Long Tom Creek, and 8.5 mi north of Mountain Home.

DRAINAGE AREA.--70.5 mi^2.

PERIOD OF RECORD.--March 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,540 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges Oct. 1-6, July 6, 9-31, Aug. 1, 2, which are fair. All other estimated daily discharges are poor. Flow partly regulated by Long Tom Reservoir which receives water by inter-basin transfer from South Fork Boise River drainage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,420 ft^3/s Feb. 23, 1986, gage height, 5.09 ft; no flow Sept. 29 to Oct. 28, 1991, July 21 to Nov. 9, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 93 ft^3/s June 13; minimum daily, 1.5 ft^3/s Dec. 9, 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e32	3.1	1.9	e2.5	9.4	e50	40	57	62	70	e55	58
2	e36	3.1	2.0	e2.5	8.9	e60	42	63	62	70	e60	59
3	e34	3.1	2.0	e2.5	e9.0	e55	47	69	65	69	59	59
4	e30	3.2	1.7	e2.5	e9.0	54	47	69	69	69	59	59
5	e8.0	3.1	1.7	e2.5	e9.0	57	48	69	68	69	59	59
6	e5.0	3.1	1.7	e2.5	e8.5	72	45	67	73	e70	59	52
7	4.2	3.0	1.7	e2.5	e9.0	68	42	68	82	67	59	45
8	3.8	3.0	1.6	e2.5	e9.5	61	40	66	85	68	59	45
9	3.6	3.0	1.5	e2.5	e10	60	43	48	89	e60	59	45
10	3.4	3.0	1.6	e2.5	e12	55	41	48	89	e70	59	39
11	3.3	3.0	1.5	e2.5	e12	52	39	50	89	e75	59	34
12	3.2	2.9	1.6	e3.0	e14	49	38	51	92	e65	59	30
13	3.1	2.9	1.8	e3.0	e16	46	46	51	93	e65	58	23
14	3.0	3.0	1.6	e3.0	e36	45	52	49	91	e60	59	23
15	3.0	3.0	1.8	e3.5	e40	45	48	47	90	e60	59	22
16	2.9	2.3	1.9	e3.5	e36	46	45	45	88	e60	61	21
17	2.9	2.0	2.0	e3.0	e30	44	45	44	83	e60	61	21
18	3.0	2.0	2.0	e3.5	e24	41	45	43	77	e50	63	20
19	2.9	1.9	2.0	e3.5	e20	46	50	43	77	e60	62	20
20	2.9	2.0	2.1	e7.0	e20	44	47	47	72	e55	62	19
21	2.9	2.0	2.1	e8.5	e26	42	46	50	65	e60	64	19
22	2.9	1.9	2.0	11	e28	42	47	51	61	e60	63	19
23	2.9	1.8	2.0	11	e40	44	46	54	56	e60	63	19
24	2.9	1.9	2.1	11	e46	43	47	56	57	e55	63	19
25	2.9	2.4	2.0	12	e40	42	51	61	57	e55	63	19
26	2.9	2.2	2.0	13	e28	42	49	61	56	e55	63	19
27	3.0	2.0	2.1	13	e44	46	59	60	55	e55	61	20
28	3.5	2.0	2.1	12	e46	49	59	61	55	e55	58	21
29	3.5	1.9	2.1	12	e44	47	59	60	62	e55	58	21
30	3.2	1.9	2.1	e12	---	43	57	56	71	e55	58	23
31	3.2	---	2.1	10	---	41	---	56	---	e60	58	---
TOTAL	224.0	75.7	58.4	186.0	684.3	1531	1410	1720	2191	1917	1862	952
MEAN	7.23	2.52	1.88	6.00	23.6	49.4	47.0	55.5	73.0	61.8	60.1	31.7
MAX	36	3.2	2.1	13	46	72	59	69	93	75	64	59
MIN	2.9	1.8	1.5	2.5	8.5	41	38	43	55	50	55	19
AC-FT	444	150	116	369	1360	3040	2800	3410	4350	3800	3690	1890

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2000, BY WATER YEAR (WY)

MEAN	3.62	2.98	6.37	16.0	40.2	70.6	64.4	58.1	57.4	52.6	40.0	24.3
MAX	9.21	8.06	32.3	114	261	196	170	105	79.4	88.9	70.5	52.8
(WY)	1996	1986	1997	1997	1986	1989	1984	1984	1989	1999	1999	1999
MIN	.000	.59	1.08	1.69	3.15	5.12	3.38	7.17	5.73	2.16	.000	.000
(WY)	1993	1995	1991	1992	1991	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1984 - 2000	
ANNUAL TOTAL	17704.0		12811.4			
ANNUAL MEAN	48.5		35.0		34.8	
HIGHEST ANNUAL MEAN					69.6	1986
LOWEST ANNUAL MEAN					2.63	1992
HIGHEST DAILY MEAN	173	Mar 22	93	Jun 13	997	Feb 24 1986
LOWEST DAILY MEAN	1.5	Dec 9	1.5	Dec 9	.00	Sep 28 1991
ANNUAL SEVEN-DAY MINIMUM	1.6	Dec 6	1.6	Dec 6	.00	Sep 28 1991
ANNUAL RUNOFF (AC-FT)	35120		25410		25250	
10 PERCENT EXCEEDS	92		65		78	
50 PERCENT EXCEEDS	58		43		23	
90 PERCENT EXCEEDS	2.1		2.1		1.3	

e Estimated

CANYON CREEK BASIN

131610556 MCCALLEY DAM OUTFLOW AT MOUNTAIN HOME AIR FORCE BASE, ID

LOCATION.--Lat 43°03'00", long 115°53'07", in SW¼SW¼NW¼ sec.29, T.4 S., R.5 E., Elmore County, Crater Rings SW Quad., Hydrologic Unit 17050101, on right bank at McCalley Dam, 125 ft upstream from Liberator Street, on Mountain Home Air Force Base.

PERIOD OF RECORD.--December 1999 to September 2000.

GAGE.--Water-stage recorder. Elevation of gage is 2,980 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--No flow during period of record December 1999 to September 2000.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
13	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
14	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
15	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
16	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
17	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
18	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
19	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
20	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
21	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
22	---	---	e.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
23	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
24	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
25	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
26	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
27	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
28	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
29	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
30	---	---	.00	.00	---	.00	.00	.00	.00	.00	.00	e.00
31	---	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	---	---	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MAX	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MIN	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

e Estimated

BRUNEAU RIVER BASIN

13161500 BRUNEAU RIVER AT ROWLAND, NV

LOCATION.--Lat 41°56'00", long 115°40'25", in NW¼SE¼ sec.29, T.47 N., R.56 E., Elko County, Nevada, Hydrologic Unit 17050102, Humboldt National Forest, on left bank 2 mi upstream from McDonald Creek, and 0.5 mi south of Rowland.

DRAINAGE AREA.--382 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1913 to September 1918 (published as "near Rowland"), water years 1962-66 (annual maximum), October 1966 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,500 ft above sea level, from topographic map. June 1913 to September 1918, nonrecording gage at different site and datum. October 1961 to September 1966, crest-stage gage at site 3 mi upstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,140 ft^3/s May 14, 1984, gage height, 12.01 ft; minimum daily, 2.5 ft^3/s Sept. 18, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 4	2345	*492	*5.05	May 26	0015	306	4.28

Minimum daily, 3.2 ft^3/s Aug. 18, 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	22	24	e10	29	46	172	210	136	18	5.4	7.0
2	15	21	22	e10	26	41	227	217	121	17	5.1	8.8
3	15	21	23	e10	25	45	325	220	109	16	4.9	8.9
4	15	21	e21	e10	26	46	368	222	103	16	6.5	7.1
5	16	21	e22	e10	27	57	445	214	96	15	7.9	6.6
6	16	21	e25	e9.8	26	62	410	200	90	15	6.7	6.1
7	18	21	25	e10	26	56	342	204	84	14	5.9	6.1
8	17	21	24	e14	29	55	313	187	80	13	5.5	5.8
9	17	21	e24	e20	31	56	375	168	81	13	4.8	5.5
10	17	21	22	e22	33	53	358	153	77	13	4.2	5.6
11	17	21	21	e22	34	54	346	144	68	13	4.2	5.5
12	17	21	29	e19	36	52	321	134	64	12	4.4	5.5
13	17	21	24	e19	34	53	319	124	62	11	4.0	5.4
14	17	21	e23	e19	45	65	367	115	56	9.8	3.8	4.9
15	18	22	e21	e19	51	88	323	111	52	9.3	3.6	4.4
16	18	22	e23	e19	47	84	278	110	49	8.6	3.4	4.0
17	18	23	25	e22	48	78	253	177	47	9.4	3.3	4.2
18	19	23	25	e26	37	70	264	181	44	10	3.2	4.8
19	19	22	24	e25	35	85	272	158	42	8.9	3.2	5.1
20	19	24	25	e24	42	82	256	155	39	8.0	3.5	5.2
21	19	26	24	e24	43	75	256	159	37	7.4	4.0	5.5
22	19	24	20	e21	41	78	265	172	34	6.7	4.1	6.3
23	19	20	e19	e19	41	94	279	198	32	6.1	3.7	7.3
24	19	25	e14	e19	41	89	254	220	29	6.0	4.2	7.0
25	19	25	e13	e27	35	100	229	241	27	5.9	4.3	7.0
26	19	26	e12	e25	42	138	222	259	25	6.0	3.8	7.0
27	20	26	e14	e22	44	204	239	214	24	6.0	3.5	6.8
28	23	25	e13	e21	46	238	272	195	21	5.8	3.5	6.6
29	24	24	e12	e21	43	202	245	180	19	5.6	3.3	6.4
30	22	24	e11	e23	---	185	220	164	18	5.4	3.3	6.4
31	22	---	e11	e29	---	171	---	151	---	5.2	4.1	---
TOTAL	565	676	635	590.8	1063	2802	8815	5557	1766	316.1	135.3	182.8
MEAN	18.2	22.5	20.5	19.1	36.7	90.4	294	179	58.9	10.2	4.36	6.09
MAX	24	26	29	29	51	238	445	259	136	18	7.9	8.9
MIN	15	20	11	9.8	25	41	172	110	18	5.2	3.2	4.0
AC-FT	1120	1340	1260	1170	2110	5560	17480	11020	3500	627	268	363

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2000, BY WATER YEAR (WY)

MEAN	22.2	28.3	29.0	39.8	56.4	163	319	393	219	54.1	17.4	15.0
MAX	52.2	58.5	56.3	137	276	608	666	1256	744	257	86.5	39.8
(WY)	1985	1985	1976	1971	1986	1972	1914	1984	1984	1984	1984	1984
MIN	7.78	13.0	11.9	12.0	22.4	37.4	55.0	50.4	14.7	5.60	3.60	3.87
(WY)	1993	1968	1993	1992	1988	1981	1968	1992	1992	1992	1981	1981

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1913 - 2000	
ANNUAL TOTAL	37174.8		23104.0			
ANNUAL MEAN	102		63.1		113	
HIGHEST ANNUAL MEAN					290	1984
LOWEST ANNUAL MEAN					24.2	1992
HIGHEST DAILY MEAN	544	May 30	445	Apr 5	2070	May 14 1984
LOWEST DAILY MEAN	8.8	Aug 31	3.2	Aug 18	2.5	Sep 18 1981
ANNUAL SEVEN-DAY MINIMUM	10	Aug 25	3.4	Aug 14	2.8	Sep 14 1981
ANNUAL RUNOFF (AC-FT)	73740		45830		81850	
10 PERCENT EXCEEDS	324		215		344	
50 PERCENT EXCEEDS	34		23		36	
90 PERCENT EXCEEDS	12		5.5		11	

e Estimated

BRUNEAU RIVER BASIN

13161500 BRUNEAU RIVER AT ROWLAND, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977-84, April 1998 to current year.

REMARKS.--In April 1998, station was established in cooperation with the U.S. Forest Service to collect sediment data.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	NUMBER OF SAM-PLING POINTS (COUNT) (00063)	BAG MESH SIZE BEDLOAD SAMPLER (MM) (30333)	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/ DAY) (80225)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM (80226)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM (80227)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM (80228)
APR										
07...	1039	346	7.0	9.5	--	--	--	--	--	--
07...	1112	344	--	--	15	.25	42	.000	.000	.300
07...	1145	344	--	--	15	.25	8.2	.000	.100	.800
10...	1115	346	11.5	16.5	--	--	--	--	--	--
10...	1145	350	--	--	17	.25	17	.000	.000	.600
10...	1211	346	--	--	17	.25	4.1	.000	.100	1.20

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM (80229)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM (80230)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM (80231)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM (80232)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM (80233)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM (80234)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM (80235)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
APR										
07...	--	--	--	--	--	--	--	6	5.6	76
07...	5.4	21.6	51.1	72.4	90.0	98.1	100	--	--	--
07...	18.2	56.1	78.7	87.4	94.8	100	--	--	--	--
10...	--	--	--	--	--	--	--	21	20	80
10...	13.8	42.9	78.7	92.6	98.3	100	--	--	--	--
10...	24.9	57.2	75.0	86.1	94.7	100	--	--	--	--

BRUNEAU RIVER BASIN

13162225 JARBIDGE RIVER BELOW JARBIDGE, NV

LOCATION.--Lat 41°53'26", long 115°25'40", in SW¼NW¼ sec.9, T.46 N., R.58 E., Elko County, Nevada, Hydrologic Unit 17050102, Humboldt National Forest, on right bank, 1.0 mi north of Jarbidge.

DRAINAGE AREA.--30.6 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 6,050 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.-Maximum discharge, 824 ft^3/s May 24, 1999, gage height, 5.50 ft; minimum daily, 2.5 ft^3/s Aug. 23, 26, 29, 30, Sept. 16, 2000.

EXTREMES FOR CURRENT YEAR.-Maximum discharge, 299 ft^3/s May 24, gage height, 4.87 ft; minimum daily, 2.5 ft^3/s Aug. 23, 26, 29, 30, Sept. 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	5.4	6.2	e5.0	6.3	7.1	15	88	70	10	3.7	7.0
2	4.8	5.4	5.2	5.5	6.3	7.1	22	113	59	9.8	3.3	5.2
3	4.8	5.1	5.0	5.4	6.3	8.1	34	140	59	9.8	3.3	4.3
4	4.7	5.1	e6.0	5.6	6.7	10	54	145	59	10	5.4	3.8
5	4.7	5.1	6.0	5.5	6.7	11	64	119	59	9.5	4.7	3.5
6	4.9	5.1	5.9	e5.5	6.7	9.6	56	88	56	9.2	3.7	3.7
7	5.3	4.9	5.7	5.5	7.1	8.7	49	74	52	8.9	3.4	3.7
8	5.0	4.9	5.5	6.9	7.6	8.4	55	60	49	8.5	3.3	3.3
9	4.8	5.1	5.7	5.7	8.0	7.9	66	48	42	8.4	3.0	3.1
10	4.7	5.1	5.3	5.9	7.9	7.2	65	42	35	8.3	2.8	3.1
11	4.6	5.0	e5.7	6.1	7.8	7.2	68	36	31	8.3	2.9	3.1
12	4.5	5.0	5.9	5.7	7.9	7.0	74	30	29	7.6	2.8	3.1
13	4.6	4.9	5.7	5.8	7.7	7.3	77	27	26	7.4	2.6	2.9
14	4.6	4.9	e5.8	5.9	e7.0	9.5	76	27	25	7.2	2.7	2.7
15	4.6	4.8	e5.9	5.8	e7.0	9.3	60	29	24	6.9	2.6	2.6
16	4.7	5.0	5.9	6.1	e7.0	8.6	47	32	23	7.3	2.7	2.5
17	4.9	5.1	6.0	5.5	e7.1	8.0	43	68	22	7.7	2.6	2.6
18	5.0	4.9	5.8	6.6	e7.4	7.9	43	72	20	7.6	2.6	2.8
19	4.9	5.2	5.5	8.5	e7.3	9.0	41	71	18	6.6	2.6	2.8
20	4.9	5.8	5.5	6.9	e7.2	8.3	40	88	17	5.8	2.7	3.0
21	4.8	5.6	5.1	6.5	e7.0	11	48	116	16	5.5	2.9	3.0
22	4.8	5.0	e5.1	6.1	e7.4	8.9	60	168	15	5.0	2.8	3.7
23	4.7	4.0	e5.0	7.3	8.1	11	64	241	14	4.9	2.5	4.3
24	4.7	6.6	e5.0	6.9	7.5	10	56	262	14	4.9	2.9	4.3
25	4.7	7.1	e5.0	7.9	9.3	12	52	224	13	4.7	2.6	4.2
26	4.7	7.2	e5.0	6.7	7.9	17	62	179	13	4.7	2.5	3.9
27	4.8	6.9	e5.0	6.1	7.8	21	99	192	12	4.7	2.6	3.7
28	7.1	6.1	e5.0	e5.8	7.3	20	122	153	12	4.5	2.6	3.4
29	6.2	6.5	e5.0	e5.5	7.1	16	93	133	11	4.2	2.5	3.4
30	5.7	6.4	e5.0	e5.3	---	15	79	112	10	4.1	2.5	3.4
31	5.7	---	e5.0	6.2	---	14	---	91	---	3.7	3.7	---
TOTAL	153.7	163.2	169.4	189.7	212.4	323.1	1784	3268	905	215.7	93.5	106.1
MEAN	4.96	5.44	5.46	6.12	7.32	10.4	59.5	105	30.2	6.96	3.02	3.54
MAX	7.1	7.2	6.2	8.5	9.3	21	122	262	70	10	5.4	7.0
MIN	4.5	4.0	5.0	5.0	6.3	7.0	15	27	10	3.7	2.5	2.5
AC-FT	305	324	336	376	421	641	3540	6480	1800	428	185	210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN	6.64	7.55	6.49	6.38	7.16	14.1	46.6	134	132	26.9	6.24	5.02
MAX	8.33	9.66	7.52	6.64	7.32	17.7	59.5	170	189	55.4	9.15	6.86
(WY)	1999	1999	1999	1999	2000	1999	2000	1999	1998	1998	1998	1998
MIN	4.96	5.44	5.46	6.12	6.99	10.4	33.8	105	30.2	6.96	3.02	3.54
(WY)	2000	2000	2000	2000	1999	2000	1999	2000	2000	2000	2000	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	13981.3		7583.8			
ANNUAL MEAN	38.3		20.7		29.9	
HIGHEST ANNUAL MEAN					39.1	1999
LOWEST ANNUAL MEAN					20.7	2000
HIGHEST DAILY MEAN	541	May 30	262	May 24	541	May 30 1999
LOWEST DAILY MEAN	4.0	Sep 17	2.5	Aug 23	2.5	Aug 23 2000
ANNUAL SEVEN-DAY MINIMUM	4.2	Sep 11	2.6	Aug 23	2.6	Aug 23 2000
ANNUAL RUNOFF (AC-FT)	27730		15040		21660	
10 PERCENT EXCEEDS	102		61		129	
50 PERCENT EXCEEDS	7.1		6.4		8.2	
90 PERCENT EXCEEDS	4.8		3.3		4.5	

e Estimated

WATER-QUALITY RECORDS

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

REMARKS.--In April 1998, station was was established in cooperation with the U.S. Forest Service to collect sediment data.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	NUMBER OF SAM-PLING POINTS (COUNT) (00063)	BAG MESH SIZE BEDLOAD SAMPLER (MM) (30333)	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/ DAY) (80225)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM (80226)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM (80227)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM (80228)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM (80229)
MAY											
03...	1241	126	8.5	--	--	--	--	--	--	--	--
03...	1246	126	--	--	20	.25	5.80	.000	.000	.200	3.80
03...	1310	124	--	--	20	.25	.92	.000	.000	.400	7.70
24...	1101	260	--	--	--	--	--	--	--	--	--
24...	1108	257	--	--	20	.25	26.6	.000	.000	.200	3.50
24...	1140	256	--	--	20	.25	14.6	.000	.000	.300	5.80
25...	1006	204	6.5	16	--	--	--	--	--	--	--
25...	1011	204	--	--	20	.25	12.6	.000	.000	.200	3.10
25...	1038	212	--	--	20	.25	11.6	.000	.100	.300	4.40

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM (80230)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM (80231)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM (80232)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM (80233)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM (80234)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM (80235)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM (80236)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAY										
03...	--	--	--	--	--	--	--	9	3.1	82
03...	13.2	26.7	34.7	41.1	41.7	41.7	100	--	--	--
03...	25.4	56.0	83.8	99.3	100	--	--	--	--	--
24...	--	--	--	--	--	--	--	47	33	34
24...	15.6	40.4	61.7	73.5	78.2	84.8	100	--	--	--
24...	20.8	39.8	52.8	58.6	62.2	65.4	100	--	--	--
25...	--	--	--	--	--	--	--	28	15	30
25...	10.6	21.3	28.2	33.3	36.5	43.4	100	--	--	--
25...	17.6	38.6	58.4	72.9	86.0	100	--	--	--	--

BRUNEAU RIVER BASIN

13168500 BRUNEAU RIVER NEAR HOT SPRING, ID

LOCATION.--Lat 42°46'16", long 115°43'10", in NE¼NE¼SE¼ sec.34, T.7 S., R.6 E., Owyhee County, Hydrologic Unit 17050102, on right bank, 1 mi downstream from Hot Creek, 1.5 mi south of Hot Spring, 9 mi southeast of Bruneau, 16 mi downstream from East Fork, and at mile 22.0.

DRAINAGE AREA.--2,630 mi^2, approximately. Mean elevation, 5,600 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1909 to March 1915, October 1943 to current year.

REVISED RECORDS.--WSP 1063: 1913. WSP 1517: 1910(M). WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,598.5 ft above sea level. Prior to Mar. 12, 1910, nonrecording gage at site 0.2 mi upstream at different datum. Mar. 12, 1910 to Mar. 15, 1915, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Several small reservoirs on tributaries above station. Diversions above station for irrigation of about 12,900 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,860 ft^3/s May 15, 1984, gage height, 13.03 ft; minimum, 20 ft^3/s Nov. 29, 1979, Jan. 2, 1995, result of freezeup; minimum gage height, 2.98 ft, Nov. 29, 1979, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 920 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 25	unknown	*[a] 1,000	*unknown	No other peak greater than base discharge.			

(a) Maximum daily discharge

Minimum daily, 31 ft^3/s Aug. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	106	118	81	148	170	319	553	614	122	42	35
2	70	103	116	104	146	163	315	556	547	118	41	36
3	71	102	117	120	141	156	386	612	515	113	41	46
4	73	101	100	132	127	150	564	658	e550	109	41	52
5	75	102	68	131	130	156	706	682	e500	106	42	53
6	76	103	67	120	129	169	e850	634	e480	103	47	48
7	77	102	113	107	122	190	e800	594	e460	97	51	45
8	80	101	133	99	126	181	e700	565	453	93	47	43
9	84	99	112	107	129	179	e650	534	436	89	44	42
10	84	101	105	117	135	178	e750	485	413	84	42	40
11	85	103	120	130	142	173	e700	446	e380	82	40	39
12	84	102	99	136	150	168	e700	420	e340	81	38	39
13	83	103	124	130	152	166	e650	399	e320	77	36	39
14	82	103	122	122	154	160	665	e380	e300	70	36	38
15	81	102	85	123	153	161	718	e360	e280	63	36	37
16	82	102	89	125	186	194	642	e340	e280	62	35	36
17	84	104	140	127	184	213	572	361	e280	61	35	34
18	87	105	133	127	175	203	528	e500	e240	62	35	33
19	88	108	123	130	155	194	536	e600	e220	65	34	33
20	93	106	120	138	132	199	531	e550	e200	63	33	33
21	94	107	116	143	141	212	505	e550	e200	59	33	35
22	94	113	112	139	155	204	516	e650	191	55	34	36
23	94	112	90	130	152	212	557	e750	181	52	35	37
24	94	94	56	124	150	232	600	e900	173	49	36	38
25	94	84	41	130	150	263	570	e1000	163	47	36	43
26	95	129	48	140	139	254	525	967	157	47	35	44
27	95	125	59	133	140	283	510	912	151	46	35	43
28	95	125	67	122	155	369	575	828	143	46	34	43
29	98	123	73	84	160	429	657	805	136	45	33	42
30	107	122	70	61	---	384	602	745	128	44	31	41
31	109	---	73	88	---	347	---	682	---	43	32	---
TOTAL	2676	3192	3009	3700	4258	6712	17899	19018	9431	2253	1170	1203
MEAN	86.3	106	97.1	119	147	217	597	613	314	72.7	37.7	40.1
MAX	109	129	140	143	186	429	850	1000	614	122	51	53
MIN	68	84	41	61	122	150	315	340	128	43	31	33
AC-FT	5310	6330	5970	7340	8450	13310	35500	37720	18710	4470	2320	2390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2000, BY WATER YEAR (WY)

MEAN	100	123	128	164	216	405	793	1268	1002	291	101	81.1
MAX	185	248	425	724	905	1901	1882	4102	3122	1044	334	170
(WY)	1985	1910	1965	1971	1986	1910	1952	1984	1984	1984	1984	1984
MIN	43.3	63.6	58.7	80.2	98.2	119	196	277	97.8	55.3	36.1	34.8
(WY)	1993	1993	1991	1991	1994	1955	1968	1992	1992	1992	1992	1981

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1909 - 2000	
ANNUAL TOTAL	137891		74521			
ANNUAL MEAN	378		204		389	
HIGHEST ANNUAL MEAN					1012	1984
LOWEST ANNUAL MEAN					113	1992
HIGHEST DAILY MEAN	2040	May 30	1000	May 25	6470	May 15 1984
LOWEST DAILY MEAN	41	Dec 25	31	Aug 30	21	Dec 21 1998
ANNUAL SEVEN-DAY MINIMUM	56	Sep 14	34	Aug 26	32	Sep 16 1981
ANNUAL RUNOFF (AC-FT)	273500		147800		281900	
10 PERCENT EXCEEDS	1130		564		1130	
50 PERCENT EXCEEDS	148		121		146	
90 PERCENT EXCEEDS	68		40		68	

e Estimated

13168500 BRUNEAU RIVER NEAR HOT SPRING, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1958 to October 1959, October 1965, December 1969 to June 1982, November 1990 to September 1991, November 1993 to September 1994, April to September 1997, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: August to September 1997, July to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 31.6 °C July 28, 2000.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 31.6 °C July 28.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
13...	1800	632	107	8.0	16.0	13.8	14	9.6	103	14	51
MAY											
10...	0940	488	98	7.8	12.0	13.2	18	9.8	104	13	30
JUN											
07...	1100	474	73	7.8	26.0	18.6	4.5	9.1	108	16	130
JUL											
14...	0850	72	193	8.0	23.0	23.2	28	8.1	105	48	120
AUG											
25...	0945	36	240	8.3	25.0	23.5	<.5	9.2	119	100	460
SEP											
15...	0715	36	241	8.0	21.0	21.0	.5	6.7	83	75	180

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
15...	39	12.6	1.79	32.9	62	4.3	96	0

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
15...	79	15.3	6.7	4.1	44.2	170	.23	16.5

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR							
13...	.071	<.002	.40	.058	.012	30	51
MAY							
10...	.017	<.002	.27	.028	.005	19	25
JUN							
07...	.019	.007	.19	.038	.003	24	31
JUL							
14...	.171	.004	.22	.081	.007	68	13
AUG							
25...	.251	.006	.19	.040	.003	26	2.5
SEP							
15...	.252	.006	.14	.008	.001	4	.39

13168500 BRUNEAU RIVER NEAR HOT SPRING, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, JULY TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JULY			AUGUST			SEPTEMBER	
1	---	---	---	30.3	25.8	27.7	24.6	20.4	23.8
2	---	---	---	30.7	25.3	27.7	24.8	22.4	23.7
3	---	---	---	31.2	26.3	28.0	26.0	21.5	23.2
4	---	---	---	30.1	26.1	27.9	26.5	21.7	23.6
5	---	---	---	30.9	24.6	27.5	24.8	21.0	22.4
6	---	---	---	29.6	24.1	26.4	25.4	19.6	22.2
7	---	---	---	30.1	23.5	26.6	26.0	20.2	22.7
8	---	---	---	30.9	23.9	27.0	25.6	21.0	23.1
9	---	---	---	30.5	24.1	27.2	25.1	20.1	22.6
10	---	---	---	30.9	24.4	27.5	25.3	20.4	22.6
11	---	---	---	30.7	24.6	27.2	27.0	21.2	23.9
12	---	---	---	30.5	23.9	27.0	28.3	22.9	25.2
13	---	---	---	30.3	24.1	26.9	28.3	23.9	25.9
14	---	---	---	30.5	24.2	27.0	28.6	24.2	26.1
15	---	---	---	29.9	23.7	26.6	28.1	23.5	25.7
16	---	---	---	30.5	23.9	26.7	28.8	24.1	26.1
17	---	---	---	30.9	23.9	26.9	28.1	24.2	25.9
18	---	---	---	30.9	24.2	27.0	27.2	23.5	25.2
19	---	---	---	29.9	23.7	26.4	26.7	23.7	25.0
20	---	---	---	29.2	23.9	25.9	26.1	22.0	23.8
21	---	---	---	29.0	22.5	25.5	24.9	21.7	23.0
22	---	---	---	30.5	22.4	26.2	22.7	20.1	21.6
23	---	---	---	27.6	23.2	25.4	23.0	19.7	21.1
24	---	---	---	31.1	23.4	26.9	22.9	18.3	20.3
25	---	---	---	30.9	23.5	27.1	22.7	18.1	20.1
26	29.6	23.2	26.2	29.9	24.6	27.0	23.2	18.0	20.2
27	30.9	23.4	26.7	29.7	23.4	26.3	23.4	18.3	20.5
28	31.6	23.2	27.0	29.6	23.7	26.2	23.7	19.7	21.4
29	31.4	24.4	27.6	29.7	22.4	25.6	23.7	20.1	21.7
30	30.1	25.3	27.5	28.5	23.7	25.8	24.8	20.6	22.3
31	31.1	24.2	27.5	26.5	22.4	24.6	---	---	---
MONTH	---	---	---	31.2	22.4	26.7	28.8	18.0	23.2

BRUNEAU RIVER BASIN

13169500 BIG JACKS CREEK NEAR BRUNEAU, ID
(Hydrologic Benchmark station)

LOCATION.--Lat 42°47'06", long 115°59'00", in NW¼SE¼ sec. 28, T. 7 S., R. 4 E., Owyhee County, Hydrologic Unit 17050102, U.S. Bureau of Land Management lands, on left bank, 0.2 mi upstream from confluence with Little Jacks Creek, 11.5 mi southwest of Bruneau, and at mile 12.7.

DRAINAGE AREA.--253 mi^2.

PERIOD OF RECORD.--December 1938 to October 1949, July 1965 to current year. Prior to October 1968, published as "Wickahoney Creek near Bruneau".

REVISED RECORDS.--WDR Idaho 1967: Drainage area.

GAGE.--Water-stage recorder and a self-cleaning broad-crested concrete weir. Elevation of gage is 2,810 ft above sea level, by barometer. December 1938 to October 1949, at site 145 ft upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No diversion or regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,950 ft^3/s Jan. 2, 1997, gage height, 5.82 ft; no flow for long periods most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27 ft^3/s Mar. 27, gage height, 2.55 ft; no flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	2.4	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	1.7	.00	.00	.00	.00	.00
3	.00	.33	.10	.00	.00	.00	1.4	.00	.00	.00	.00	.00
4	.00	.25	.00	.00	.00	.00	1.2	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.86	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.73	.00	.00	.00	.00	.00
7	.00	.00	.16	.00	.00	1.5	.65	.00	.00	.00	.00	.00
8	.00	.00	.43	.00	.00	1.6	.65	.00	.00	.00	.00	.00
9	.00	.00	.52	.00	.00	2.1	.58	.00	.00	.00	.00	.00
10	.00	.00	.51	.00	.00	1.6	1.1	.00	.00	.00	.00	.00
11	.00	.00	.19	.00	.00	1.3	.78	.00	.00	.00	.00	.00
12	.00	.00	.39	.00	.00	1.1	.44	.00	.00	.00	.00	.00
13	.00	.00	.61	.00	.00	.92	.26	.00	.00	.00	.00	.00
14	.00	.00	.05	.00	.00	.70	1.0	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.51	.97	.00	.00	.00	.00	.00
16	.00	.00	.57	.00	.00	2.1	.77	.00	.00	.00	.00	.00
17	.00	.25	.84	.00	.00	2.7	.74	.00	.00	.00	.00	.00
18	.00	.43	.84	.00	.00	1.9	.64	.00	.00	.00	.00	.00
19	.00	.59	.76	.00	.00	1.5	.59	.00	.00	.00	.00	.00
20	.00	.33	.65	.00	.00	6.2	.57	.00	.00	.00	.00	.00
21	.00	.31	.62	.00	.00	6.0	.66	.00	.00	.00	.00	.00
22	.00	.44	.14	.00	.00	3.6	.34	.00	.00	.00	.00	.00
23	.00	.28	.00	.00	.00	4.6	.74	.00	.00	.00	.00	.00
24	.00	.51	.00	.00	.77	14	.50	.00	.00	.00	.00	.00
25	.00	.52	.00	.00	.28	11	.09	.00	.00	.00	.00	.00
26	.00	.23	.00	.00	.00	14	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	22	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	17	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	11	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	5.9	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	3.5	---	.00	---	.00	.00	---
TOTAL	0.00	4.47	7.38	0.00	1.05	138.33	20.36	0.00	0.00	0.00	0.00	0.00
MEAN	.000	.15	.24	.000	.036	4.46	.68	.000	.000	.000	.000	.000
MAX	.00	.59	.84	.00	.77	22	2.4	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	8.9	15	.00	2.1	274	40	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

MEAN	1.16	1.13	.66	5.68	7.42	18.9	13.3	6.74	3.51	1.45	1.04	1.06
MAX	13.6	13.1	8.07	80.4	69.8	110	115	89.4	54.6	18.0	15.3	13.9
(WY)	1985	1985	1984	1997	1986	1972	1984	1984	1984	1984	1984	1984
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1940	1940	1940	1940	1942	1942	1940	1940	1939	1939	1939	1939

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939 - 2000	
ANNUAL TOTAL	1437.39		171.59			
ANNUAL MEAN	3.94		.47		5.25	
HIGHEST ANNUAL MEAN					32.6	1984
LOWEST ANNUAL MEAN					.000	1966
HIGHEST DAILY MEAN	106	Mar 22	22	Mar 27	1210	Jan 2 1997
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	May 16 1939
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	May 16 1939
ANNUAL RUNOFF (AC-FT)	2850		340		3800	
10 PERCENT EXCEEDS	10		.76		12	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

DIVERSIONS FROM SNAKE RIVER
BETWEEN SNAKE RIVER AT KING HILL AND SNAKE RIVER BELOW C.J. STRIKE DAM

13171100 SNAKE RIVER IRRIGATION DISTRICT CANAL NEAR GRAND VIEW, ID

LOCATION.--Lat 42°57'02", long 115°58'01", in NW¼SW¼NW¼ sec.34, T.5 S., R.4 E., Owyhee County, Hydrologic Unit 17050103, on left bank at road crossing, 0.4 mi north of C.J. Strike Dam.

PERIOD OF RECORD.--March 1986 to current year (irrigation seasons only).

GAGE.--Water-stage recorder. Elevation of gage is 2,450 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Canal carries water from C.J. Strike Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 209 ft^3/s July 6, 20, 21, Aug. 6, 7, 12, 15, 16, 2000; no flow for long periods each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	.00	---	---	---	.00	106	183	181	208	208	202
2	140	.00	---	---	---	.00	105	183	185	208	208	190
3	134	.00	---	---	---	.00	106	186	184	208	208	181
4	134	.00	---	---	---	.00	114	186	189	208	208	180
5	133	.00	---	---	---	.00	122	185	194	208	208	179
6	138	.00	---	---	---	.00	121	185	192	209	209	178
7	143	.00	---	---	---	.00	120	183	195	207	209	179
8	143	.00	---	---	---	.00	122	179	199	207	208	177
9	143	.00	---	---	---	.00	129	179	201	207	208	176
10	143	.00	---	---	---	.00	134	173	200	207	208	178
11	142	.00	---	---	---	.00	140	167	202	207	208	170
12	143	.00	---	---	---	.00	143	160	198	207	209	162
13	145	.00	---	---	---	.00	150	160	190	207	207	161
14	139	.00	---	---	---	.00	156	160	189	207	208	156
15	137	.00	---	---	---	.00	160	153	187	206	209	150
16	130	---	---	---	---	.00	166	154	192	207	209	141
17	129	---	---	---	---	.00	168	161	193	207	208	140
18	131	---	---	---	---	.00	173	161	193	208	208	140
19	129	---	---	---	---	.00	173	161	190	208	207	141
20	122	---	---	---	---	.00	182	161	194	209	206	141
21	110	---	---	---	---	.00	185	162	198	209	207	133
22	108	---	---	---	---	57	183	160	198	208	206	133
23	109	---	---	---	---	71	183	161	199	208	206	133
24	108	---	---	---	---	72	186	161	202	207	205	131
25	110	---	---	---	---	75	185	164	203	207	205	130
26	109	---	---	---	---	85	182	168	208	207	204	130
27	110	---	---	---	---	85	184	168	207	208	204	130
28	109	---	---	---	---	87	184	167	208	208	203	130
29	34	---	---	---	---	87	186	167	206	208	203	129
30	.00	---	---	---	---	92	184	166	207	208	203	132
31	.00	---	---	---	---	103	---	174	---	207	202	---
TOTAL	3646.00	---	---	---	---	814.00	4632	5238	5884	6435	6409	4633
MEAN	118	---	---	---	---	26.3	154	169	196	208	207	154
MAX	145	---	---	---	---	103	186	186	208	209	209	202
MIN	.00	---	---	---	---	.00	105	153	181	206	202	129
AC-FT	7230	---	---	---	---	1610	9190	10390	11670	12760	12710	9190

DIVERSIONS FROM SNAKE RIVER
BETWEEN SNAKE RIVER AT KING HILL AND SNAKE RIVER BELOW C.J. STRIKE DAM

13171200 GRAND VIEW IRRIGATION DISTRICT CANAL NEAR GRAND VIEW, ID

LOCATION.--Lat 42°56'37", long 115°59'33", in SE¼NW¼SW¼ sec.33, T.5 S., R.4 E., Owyhee County, Hydrologic Unit 17050103, and 0.75 mi west of C.J. Strike Dam.

PERIOD OF RECORD.--July 1985 to current year (irrigation seasons only).

GAGE.--Water-stage recorder. Elevation of gage is 2,415 ft above sea level, from topographic map.

REMARKS.--Records good except for discharges Oct. 29-31, which are fair. Canal carries water from C.J. Strike Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 233 ft³/s Apr. 21, 1994; no flow for long periods each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	---	---	---	---	---	98	183	180	211	199	155
2	142	---	---	---	---	---	98	183	187	213	200	167
3	142	---	---	---	---	---	102	183	189	213	200	167
4	142	---	---	---	---	---	126	181	192	211	200	168
5	142	---	---	---	---	---	139	182	191	211	200	168
6	147	---	---	---	---	---	138	178	190	210	199	168
7	151	---	---	---	---	---	137	157	191	207	197	168
8	152	---	---	---	---	---	137	142	193	206	151	168
9	152	---	---	---	---	---	142	142	195	205	140	169
10	152	---	---	---	---	---	146	138	195	204	166	169
11	152	---	---	---	---	---	160	107	196	204	182	168
12	152	---	---	---	---	---	166	140	196	206	182	167
13	152	---	---	---	---	---	167	147	195	205	181	167
14	152	---	---	---	---	---	172	148	158	204	181	167
15	146	---	---	---	---	---	176	149	183	201	182	167
16	134	---	---	---	---	---	176	150	190	177	191	167
17	137	---	---	---	---	---	183	156	189	145	191	167
18	136	---	---	---	---	---	185	157	188	131	191	167
19	128	---	---	---	---	---	185	162	187	128	191	167
20	126	---	---	---	---	---	185	162	186	183	191	167
21	127	---	---	---	---	---	185	162	186	201	191	162
22	126	---	---	---	---	---	185	161	184	201	190	124
23	126	---	---	---	---	---	186	161	184	201	190	124
24	126	---	---	---	---	---	186	161	184	201	190	137
25	126	---	---	---	---	---	187	157	182	202	190	148
26	125	---	---	---	---	---	183	137	179	202	190	148
27	125	---	---	---	---	---	183	150	142	201	190	148
28	121	---	---	---	---	---	182	159	157	201	188	148
29	55	---	---	---	---	52	182	164	183	199	156	148
30	e.50	---	---	---	---	99	183	168	187	198	117	148
31	e.50	---	---	---	---	102	---	174	---	199	119	---
TOTAL	3937.00	---	---	---	---	---	4860	4901	5539	6081	5626	4773
MEAN	127	---	---	---	---	---	162	158	185	196	181	159
MAX	152	---	---	---	---	---	187	183	196	213	200	169
MIN	.50	---	---	---	---	---	98	107	142	128	117	124
AC-FT	7810	---	---	---	---	---	9640	9720	10990	12060	11160	9470

e Estimated

DIVERSIONS FROM SNAKE RIVER
BETWEEN SNAKE RIVER AT KING HILL AND SNAKE RIVER BELOW C.J. STRIKE DAM

13171300 GRAND VIEW MUTUAL CANAL NEAR GRAND VIEW, ID

LOCATION.--Lat 42°56'31", long 115°59'26", in NW¼SE¼SW¼ sec.33, T.5 S., R.4 E., Owyhee County, Hydrologic Unit 17050103, on left bank, 0.7 mi westof C.J. Strike Dam.

PERIOD OF RECORD.--March 1986 to current year (irrigation seasons only).

GAGE.--Water-stage recorder. Elevation of gage is 2,450 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Canal carries water from C.J. Strike Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 156 ft^3/s July 2, 1995; no flow for long periods each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	.00	---	---	---	.00	48	112	100	110	102	124
2	69	.00	---	---	---	.00	49	112	110	104	108	122
3	70	.00	---	---	---	.00	60	112	111	105	101	120
4	70	.00	---	---	---	.00	65	112	116	104	105	103
5	71	.00	---	---	---	.00	70	112	118	106	114	99
6	72	.00	---	---	---	.00	70	112	118	109	113	99
7	72	.00	---	---	---	.00	70	108	124	114	109	100
8	72	.00	---	---	---	.00	76	98	128	114	106	95
9	73	.00	---	---	---	.00	80	95	129	120	107	90
10	73	.00	---	---	---	.00	80	95	124	119	107	91
11	74	.00	---	---	---	.00	80	96	124	121	108	86
12	74	.00	---	---	---	.00	80	96	117	133	109	80
13	74	.00	---	---	---	.00	85	96	104	132	108	80
14	74	.00	---	---	---	.00	84	86	96	132	109	80
15	28	.00	---	---	---	.00	83	70	112	131	110	80
16	.06	---	---	---	---	.00	86	69	118	133	112	80
17	.00	---	---	---	---	.00	89	86	129	135	121	81
18	.00	---	---	---	---	.00	89	84	127	135	121	73
19	.00	---	---	---	---	.00	93	84	119	134	124	66
20	.00	---	---	---	---	.00	93	84	115	134	128	66
21	.00	---	---	---	---	.00	99	90	115	127	130	67
22	.00	---	---	---	---	.00	105	88	116	120	130	68
23	.00	---	---	---	---	.00	104	87	116	121	132	69
24	.00	---	---	---	---	.00	104	85	117	122	135	70
25	.00	---	---	---	---	.00	104	84	118	124	142	64
26	.00	---	---	---	---	.00	108	84	117	123	141	60
27	.00	---	---	---	---	.00	112	83	118	124	142	65
28	.00	---	---	---	---	.00	112	82	117	124	138	65
29	.00	---	---	---	---	.00	112	82	116	118	138	65
30	.00	---	---	---	---	1.3	112	80	115	113	138	66
31	.00	---	---	---	---	34	---	80	---	109	128	---
TOTAL	1044.06	---	---	---	---	35.30	2602	2844	3504	3750	3716	2474
MEAN	33.7	---	---	---	---	1.14	86.7	91.7	117	121	120	82.5
MAX	78	---	---	---	---	34	112	112	129	135	142	124
MIN	.00	---	---	---	---	.00	48	69	96	104	101	60
AC-FT	2070	---	---	---	---	70	5160	5640	6950	7440	7370	4910

SNAKE RIVER MAIN STEM

13171500 C. J. STRIKE RESERVOIR NEAR GRAND VIEW, ID

LOCATION.--Lat 42°56'38", long 115°58'28", in SW¼NW¼SW¼ sec.34, T.5 S., R.4 E., Owyhee County, Hydrologic Unit 17050103, on left bank near the dam on Snake River, 7 mi southeast of Grand View, at mile 494.0.

DRAINAGE AREA.--40,800 mi^2, approximately.

PERIOD OF RECORD.--March 1952 to September 1967 (month-end contents only), July 1986 to current year.

REVISED RECORDS.--WDR ID-87-1: 1986 (M, m).

GAGE.--Water-stage recorder. Datum of gage is sea level.

REMARKS.--Station includes satellite telemetry. Reservoir is formed by earthfill, rock-faced dam. Storage began in February 1952. Total capacity, 250,000 acre-ft at elevation 2,455 ft (top of spillway gates), of which about 50,000 acre-ft is controlled storage. Water is used for power generation by Idaho Power Co. Figures given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 253,700 acre-ft Mar. 31, 1956, elevation, 2,455.49 ft; minimum since first filling, 215,600 acre-ft (corrected) Mar. 3-10, 1991, elevation, 2,450.14 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 251,500 acre-ft Oct. 29, 30, elevation, 2,455.20 ft; minimum, 226,200 acre-ft Mar. 5, elevation, 2,451.70 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

2,450.0	214,700
2,552.0	228,300
2,554.0	242,600
2,556.0	257,600

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	249400	247500	247900	247300	248200	227500	247900	247300	246900	246300	246900	247700
2	248900	247400	246800	248000	247100	227700	246900	246600	246600	247000	246200	248600
3	249000	247300	247200	249400	247700	227800	248100	247800	246900	245800	247000	248200
4	248500	246900	247000	247800	247600	227200	247100	247400	247600	247500	246600	246000
5	247900	246200	246300	247600	246700	228400	248600	246800	247400	247500	246900	246600
6	248200	246800	247200	247900	247200	232300	247400	247200	247700	247000	247000	246600
7	248700	246800	246900	248200	246400	233100	247000	247900	246900	246900	247100	247000
8	248900	246700	247200	248400	247100	---	246100	247800	247700	247000	246800	244800
9	249100	246900	246900	248600	246700	---	247300	247800	247600	246700	246800	245700
10	247800	245600	246800	248000	247000	245500	247600	247300	247500	246600	246600	247100
11	249600	246400	246800	248200	247600	246900	247600	247100	247600	246800	247000	246100
12	247200	246800	247200	248100	246900	247900	248200	248700	247300	246200	246900	246200
13	248900	247100	247000	248500	248000	247000	248600	247200	247900	246900	246600	246900
14	246700	247500	247600	247900	245700	246200	247500	247400	248000	246400	246400	246800
15	248800	247600	246600	248400	246700	246300	247300	248100	246900	246400	246500	246400
16	246700	246800	246600	248400	247800	246500	246700	247500	246900	247200	246900	247300
17	247900	246900	246600	248800	247900	247800	247400	246400	247200	247600	246400	246900
18	245500	247600	246200	248200	244900	247000	246500	247700	246400	247100	246900	246600
19	246700	246900	246600	248700	245500	247000	246300	247100	246600	247200	246900	246600
20	248100	247200	247600	248400	247600	248000	246900	247300	246400	247500	247000	246800
21	246700	248400	247900	248700	247600	247400	247600	247300	246700	247200	247200	246400
22	246000	246300	246100	248800	247900	246600	246700	247400	246400	246900	247200	246900
23	246300	246700	246700	248700	245600	248500	246500	247600	245700	247600	247300	248500
24	248000	247500	248500	248600	248100	246600	248300	247600	245600	246600	247200	248200
25	245400	247700	247100	247600	247800	246300	247300	247600	246800	246600	246800	248200
26	246000	247200	247900	248400	245400	247000	247100	247200	247300	246400	246600	248200
27	248200	247800	248200	248400	241000	247300	246800	247000	246900	246500	247000	248400
28	248800	249100	248100	248000	236900	248700	247300	247500	246700	246900	247600	247800
29	248900	246700	249600	247900	231300	249000	249100	247200	246300	246700	247400	246900
30	249900	245700	249200	248100	---	247600	247800	246800	246700	246300	246100	246900
31	250600	---	248800	248000	---	247600	---	246900	---	246900	246400	---
MAX	250600	249100	249600	249400	248200	---	249100	248700	248000	247600	247600	248600
MIN	245400	245600	246100	247300	231300	---	246100	246400	245600	245800	246100	244800
†	2455.08	2454.43	5454.84	2454.73	2452.43	2454.68	2454.70	2454.59	2454.56	2454.58	2454.51	2454.58
‡	2700	-4900	3100	-800	-16700	16300	200	-900	-200	200	-500	500

CAL YR 1999 ‡ 1200
WTR YR 2000 ‡ -1000

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

SNAKE RIVER MAIN STEM

13171620 SNAKE RIVER BELOW C.J. STRIKE DAM NEAR GRAND VIEW, ID

LOCATION.--Lat 42°56'50", long 115°58'49", in SW¼SE¼NE¼ sec.33, T.5 S., R.4 E., Owyhee County, Hydrologic Unit 17050103, on downstream left bank end of bridge about 0.25 mi below dam, 10 mi northwest of Bruneau, 6.5 mi southeast of Grand View, and at mile 493.8.

DRAINAGE AREA.--40,800 mi^2, approximately.

PERIOD OF RECORD.--April 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,350 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,000 ft^3/s June 20, 21, 1997, gage height, 14.88 ft; minimum, 2,000 ft^3/s Mar. 4, 1988, gage height, 3.28 ft; minimum daily, 3,880 ft^3/s June 12, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 15,800 ft^3/s Jan. 1; minimum daily, 5,180 ft^3/s June 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8030	14600	10600	15800	13600	12100	12400	7780	6650	6320	7100	7090
2	9370	13000	11500	14700	13500	9580	13700	7000	6410	6450	7250	7890
3	9300	13400	12000	14600	12600	9530	12400	5830	6010	6720	6740	9520
4	9860	13300	11900	15700	13000	10300	13200	7270	5600	6130	7080	9820
5	9600	12900	10600	15300	12100	9310	12400	7260	5810	6690	6910	9270
6	8480	11600	10900	14700	11600	8590	13600	6430	5830	7150	7130	8840
7	8760	11100	11800	14400	11600	8860	12700	6770	5930	6930	7200	8820
8	9170	11900	11600	14700	10800	7630	12500	7590	5340	6660	7680	8830
9	9210	11300	11800	14700	9870	8110	12100	7830	5720	6980	7230	8200
10	10200	12100	11100	15400	8380	8410	12200	8310	5550	6750	7130	6900
11	9960	11300	11200	14900	9410	8770	12700	7770	5920	6920	7100	8290
12	10400	11100	11300	15100	9610	9320	12800	7450	6010	6700	7170	7720
13	8930	10500	11500	14700	9270	9210	13600	8080	5620	6740	6860	7600
14	9880	11400	11600	14900	10400	9300	13600	8690	6870	6690	7150	7390
15	9310	12500	11500	14600	10100	9220	13600	9310	5570	6390	7180	6910
16	10300	10700	11200	14600	9780	8760	13500	9240	5540	6440	7010	6780
17	10200	10200	11300	14500	9630	9060	12800	8030	5510	6390	7290	7030
18	10300	9890	11400	14600	11500	8880	13500	7310	5530	6920	6850	7180
19	9710	10500	11200	14600	9370	8290	13200	7440	5560	7080	7020	6870
20	10000	10700	10800	14600	8650	9080	11900	7150	5580	6730	7050	7200
21	11200	9810	11100	14600	9810	9460	12500	6910	5470	6620	7300	7090
22	11800	12900	12300	14600	9870	9040	12700	7380	5450	6570	7460	7420
23	11000	11300	11400	14800	10600	8660	12200	6820	5460	6520	7500	7760
24	10100	10400	11600	15100	8670	11200	10900	6990	5180	7390	7410	9110
25	11900	11100	13500	15100	10500	10600	11400	6890	5190	6810	7620	8960
26	10900	11500	12300	14400	10600	11300	10700	7270	6220	6730	7390	8910
27	10700	11600	12700	13900	11800	12600	10700	7070	6860	6440	7440	8850
28	11200	11100	12800	14100	12600	12600	8640	7060	6760	6720	7130	8830
29	12500	12700	12500	13700	12700	12800	7800	7040	6640	6920	7740	9290
30	13800	12100	14300	13700	---	13300	8770	7190	6160	7000	8240	9180
31	14200	---	15600	13700	---	13000	---	6920	---	6580	8010	---
TOTAL	320270	348500	366900	454800	311920	306870	364710	230080	175950	208080	225370	243550
MEAN	10330	11620	11840	14670	10760	9899	12160	7422	5865	6712	7270	8118
MAX	14200	14600	15600	15800	13600	13300	13700	9310	6870	7390	8240	9820
MIN	8030	9810	10600	13700	8380	7630	7800	5830	5180	6130	6740	6780
AC-FT	635300	691200	727700	902100	618700	608700	723400	456400	349000	412700	447000	483100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2000, BY WATER YEAR (WY)

MEAN	10080	10290	10670	11310	11710	12980	12920	11950	12360	7100	7328	8804
MAX	18320	16300	18090	18390	27560	29390	26950	25470	34180	10510	10450	14800
(WY)	1987	1987	1987	1997	1997	1997	1986	1986	1997	1997	1997	1997
MIN	7319	7578	4910	7450	7346	6781	6049	5090	4580	4824	5342	6732
(WY)	1993	1993	1990	1989	1993	1991	1992	1992	1992	1992	1992	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1985 - 2000	
ANNUAL TOTAL	5058950		3557000			
ANNUAL MEAN	13860		9719		10580	
HIGHEST ANNUAL MEAN					18090	1997
LOWEST ANNUAL MEAN					6671	1992
HIGHEST DAILY MEAN	28100	Jun 8	+15800	Jan 1	44000	Jun 16 1997
LOWEST DAILY MEAN	6490	Jul 10	5180	Jun 24	3880	Jun 12 1992
ANNUAL SEVEN-DAY MINIMUM	6990	Jul 9	5410	Jun 19	4300	Jun 6 1992
ANNUAL RUNOFF (AC-FT)	10030000		7055000		7665000	
10 PERCENT EXCEEDS	20900		13700		18400	
50 PERCENT EXCEEDS	13000		9320		8510	
90 PERCENT EXCEEDS	7590		6580		6230	

SNAKE RIVER MAIN STEM

13172500 SNAKE RIVER NEAR MURPHY, ID

LOCATION.--Lat 43°17'31", long 116°25'12", in NW¼NE¼SE¼ sec.35, T.1 S., R.1 W., Ada County, Hydrologic Unit 17050103, on right bank, 4.2 mi downstream from Swan Falls powerplant, 7.5 mi northeast of Murphy, and at mile 453.5.

DRAINAGE AREA.--41,900 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August to October 1912, August 1913 to current year.

REVISED RECORDS.--WSP 1737: 1933(M).

GAGE.--Water-stage recorder. Datum of gage is 2,271.17 ft above sea level. Prior to Sept. 7, 1914, nonrecording gage, and Sept. 7, 1914 to Sept. 30, 1935, water-stage recorder at site 3.5 mi upstream at datum 9.79 ft higher.

REMARKS.--Records good. Station equipment includes satellite telemetry. Major regulation by American Falls Reservoir, 260.5 mi upstream. Diurnal fluctuation caused by hydroelectric plants upstream. Diversions above station for irrigation of about 2,590,000 acres, of which about 701,000 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,300 ft^3/s June 22, 1918, gage height, 13.95 ft, site and datum then in use; minimum, 3,650 ft^3/s July 7, 1981, gage height, 2.22 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,600 ft^3/s Nov. 4, gage height, 6.44 ft; minimum, 5,160 ft^3/s June 21, gage height, 2.77 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN.	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8400	14100	11100	15000	13400	12300	13000	8300	6840	5900	6420	7860
2	8800	14000	11000	14000	13600	10700	13700	7670	6810	6180	7560	7260
3	9220	12500	11500	13700	12500	10300	13200	6740	6420	6530	7090	9310
4	9570	13900	12300	14800	12800	10500	13500	6230	6010	6350	6540	9450
5	9630	12900	10700	14500	12400	10000	12800	7960	5770	6580	7270	9400
6	8700	11800	11300	14200	11900	9020	13900	6980	5700	6580	6960	9110
7	8830	11400	11500	13400	11300	8840	13400	7060	5980	6890	7440	8540
8	8730	11500	11300	13800	11800	10200	13000	7250	5950	6540	7300	8790
9	9110	12100	11900	14200	10100	7960	12400	8050	5760	6630	7610	8270
10	9610	11200	11100	14200	9280	8450	12600	8420	5780	7020	7010	7390
11	10100	11500	11300	14200	9260	8880	13100	8150	5780	6470	7050	7990
12	10000	11400	11300	14200	10100	9630	12800	7970	5880	6720	7020	8690
13	9090	11100	11300	14300	8810	9760	13700	7570	6280	6700	7100	8190
14	9280	11100	12200	13700	10500	9750	13700	8730	5820	6560	7080	7080
15	9590	11600	11200	13900	10300	10100	13800	9830	6740	6560	7190	6920
16	9910	11800	11200	13700	10600	9410	13700	8930	5600	6320	7020	7360
17	9790	9890	11500	13700	9920	9000	13100	8530	5510	6560	7280	7070
18	10200	10300	11400	13700	10600	9870	13300	8180	5660	6260	7060	7460
19	10400	10300	11400	13700	10700	9100	13700	7520	5700	7040	7050	7230
20	9240	10500	10700	13700	9310	8910	12100	7480	5480	6830	7100	7050
21	10800	10200	11400	13700	9850	10100	12200	7040	5530	6700	7240	7580
22	11600	11500	11500	13700	10000	9890	13100	7270	5650	6370	7550	7350
23	11200	11700	11400	13700	10500	8990	12500	7520	5440	6250	7610	7660
24	10200	11300	11700	14200	10100	10600	11300	6990	5540	7010	7620	8890
25	11100	10600	13000	e15000	10200	11400	11700	6960	5310	7500	7690	9130
26	11600	11400	12700	e14000	10600	11100	11100	7250	6340	6620	7640	9090
27	10600	11600	12400	e14000	11700	13100	9960	7190	6640	6480	7490	9140
28	10700	11400	13100	13900	12600	12800	10400	7120	6390	6660	7330	8820
29	11500	11700	13000	13700	13400	13100	7360	7140	6210	6700	7680	9300
30	13600	12600	12600	13600	---	13600	8880	7220	6800	6950	8130	9350
31	14600	---	14500	13600	---	13400	---	7160	---	6880	8070	---
TOTAL	315700	348890	364500	433700	318130	320760	373000	236410	179320	205340	226200	246730
MEAN	10180	11630	11760	13990	10970	10350	12430	7626	5977	6624	7297	8224
MAX	14600	14100	14500	15000	13600	13600	13900	9830	6840	7500	8130	9450
MIN	8400	9890	10700	13400	8810	7960	7360	6230	5310	5900	6420	6920
AC-FT	626200	692000	723000	860200	631000	636200	739800	468900	355700	407300	448700	489400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2000, BY WATER YEAR (WY)

MEAN	10580	11390	11530	11740	12000	12380	13610	13110	13150	8060	7470	8545
MAX	18500	21370	21020	23250	26540	28350	28950	31250	31980	21230	10480	14870
(WY)	1972	1985	1984	1984	1997	1997	1971	1984	1997	1917	1997	1997
MIN	7086	7513	7601	7581	7352	7005	6093	5285	4971	5274	5266	6055
(WY)	1993	1935	1993	1993	1993	1991	1992	1992	1992	1992	1992	1915

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1914 - 2000	
ANNUAL TOTAL	4954430		3568680			
ANNUAL MEAN	13570		9750		11120	
HIGHEST ANNUAL MEAN					19180	1984
LOWEST ANNUAL MEAN					6744	1992
HIGHEST DAILY MEAN	25600	Jun 8	15000	Jan 1	46100	Jun 22 1918
LOWEST DAILY MEAN	6290	Jul 15	5310	Jun 25	4370	Jun 5 1992
ANNUAL SEVEN-DAY MINIMUM	6900	Jul 9	5520	Jun 19	4620	Jun 28 1981
ANNUAL RUNOFF (AC-FT)	9827000		7078000		8055000	
10 PERCENT EXCEEDS	20300		13700		17700	
50 PERCENT EXCEEDS	13000		9690		9400	
90 PERCENT EXCEEDS	7620		6520		6940	

e Estimated

13172500 SNAKE RIVER NEAR MURPHY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1975 to October 1976, April 1978 to January 1982, November 1990 to September 1991, November 1993 to September 1994, April to September 1997, June to September 1998, April to August 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: August to September 1997, June to September 1998, April to August 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 26.8 °C July 26, 1998.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 23.1 °C July 31, Aug. 1-2.

REMARKS.--Missing data due to equipment malfunction.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
13...	1300	14000	447	8.5	13.0	13.8	5.3	10.9	115	35	200
MAY											
11...	1150	8180	419	8.8	12.0	14.5	1.7	12.1	129	92	180
JUN											
09...	1015	5740	428	8.5	17.5	18.8	4.0	9.3	109	K14	1400
JUL											
12...	0945	7440	621	8.5	25.0	22.0	5.1	--	--	K16	120
AUG											
24...	1030	7590	814	8.2	29.0	21.0	<.5	8.8	108	K16	210
SEP											
13...	0955	9140	499	8.6	21.0	18.4	.6	9.6	111	K6	200

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
SEP												
13...	190	43.2	19.8	<.1	4.0	200	7	172	45.2	23.7	.7	29.2

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR							
13...	.627	.003	.52	.071	.005	16	605
MAY							
11...	.521	<.002	.48	.041	.001	13	287
JUN							
09...	.484	.002	.59	.053	<.001	12	186
JUL							
12...	.545	<.002	.62	.078	.004	13	261
AUG							
24...	.789	.004	.46	.077	.026	11	225
SEP							
13...	.992	.003	.39	.081	.031	12	296

K Results based on counts outside ideal colony range.

13172500 SNAKE RIVER NEAR MURPHY, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, APRIL TO AUGUST 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	12.5	10.2	11.4
2	---	---	---	12.7	10.5	11.7
3	---	---	---	13.6	11.1	12.3
4	---	---	---	13.6	12.4	13.0
5	---	---	---	13.5	11.6	12.2
6	---	---	---	11.6	10.7	11.0
7	---	---	---	10.8	9.4	9.9
8	---	---	---	10.2	8.7	9.4
9	---	---	---	10.2	9.1	9.7
10	---	---	---	10.7	9.3	10.0
11	---	---	---	10.4	8.3	8.9
12	---	---	---	9.7	7.9	8.6
13	---	---	---	10.2	8.3	9.2
14	17.4	10.4	12.8	11.6	9.3	10.2
15	18.5	6.2	11.4	12.5	10.2	11.3
16	13.6	7.1	10.7	12.4	11.3	11.8
17	19.3	6.5	11.9	11.9	10.8	11.4
18	14.7	7.7	10.7	12.7	10.8	11.6
19	13.0	6.3	9.0	12.7	11.3	12.0
20	---	---	---	13.6	11.6	12.5
21	---	---	---	14.5	12.5	13.4
22	19.8	11.9	16.0	14.5	13.3	14.0
23	16.3	10.0	12.8	15.3	13.5	14.3
24	16.0	6.0	11.1	15.6	14.2	14.9
25	17.1	7.6	12.8	15.5	14.5	15.0
26	18.5	10.2	14.3	15.6	14.4	15.0
27	---	---	---	15.6	13.9	14.8
28	12.1	10.2	11.2	15.5	14.1	14.9
29	11.6	10.0	11.0	15.2	13.6	14.4
30	12.5	10.2	11.3	14.9	13.1	14.1
31	---	---	---	14.5	12.8	13.6
MONTH	---	---	---	15.6	7.9	12.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST	
1	14.2	12.1	13.1	20.0	17.5	18.6	23.1	20.0	21.4
2	14.9	12.7	13.8	19.7	17.5	18.6	23.1	19.8	21.3
3	15.5	13.1	14.3	19.2	17.5	18.3	22.8	19.8	20.8
4	16.4	13.9	15.1	18.0	16.0	16.9	22.8	19.5	20.9
5	16.4	14.4	15.5	18.5	16.1	17.3	21.5	19.3	20.4
6	16.8	14.5	15.6	18.4	16.4	17.4	20.5	18.8	19.7
7	17.2	15.0	16.1	18.8	17.1	17.9	20.8	18.7	19.7
8	16.9	15.3	16.2	19.2	17.4	18.4	20.5	18.7	19.6
9	16.6	14.5	15.3	19.0	17.9	18.5	21.0	19.2	20.0
10	15.2	13.8	14.4	19.0	17.5	17.9	22.0	19.5	20.5
11	15.0	13.5	14.3	19.0	16.8	17.8	21.6	17.2	19.8
12	15.0	13.5	13.9	19.5	17.5	18.6	22.0	15.8	19.1
13	14.9	12.7	13.6	19.7	17.7	18.8	21.8	17.5	19.7
14	15.3	13.3	14.3	19.7	18.5	19.0	22.3	17.1	19.6
15	15.3	14.2	14.9	19.3	18.0	18.7	21.0	17.4	19.4
16	16.1	14.2	15.1	19.7	18.4	19.0	22.0	16.4	19.3
17	16.3	14.5	15.5	19.7	18.7	19.1	21.1	17.1	19.2
18	16.6	14.7	15.6	19.3	17.9	18.6	21.6	17.2	19.4
19	16.4	15.0	15.7	19.5	18.0	18.8	20.6	17.5	19.0
20	16.1	14.5	15.4	19.3	17.7	18.5	19.5	17.2	18.3
21	16.6	14.9	15.7	19.5	17.7	18.6	18.8	16.6	17.8
22	17.4	15.2	16.2	---	---	---	19.8	16.9	18.2
23	18.2	16.4	17.2	---	---	---	19.3	17.4	18.3
24	18.8	14.5	17.5	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---
28	--	---	---	---	---	---	---	---	---
29	---	---	---	22.8	18.8	20.7	---	---	---
30	21.0	15.8	18.6	23.0	19.0	20.9	---	---	---
31	---	---	---	23.1	19.8	21.3	---	---	---
MONTH	---	---	---	---	---	---	---	---	---

SNAKE RIVER MAIN STEM

13172500 SNAKE RIVER NEAR MURPHY, ID--Continued

COLLECTION METHODS.--Electrofishing; boat (13A), boackpack (11A).

LENGTH OF REACH.--1280 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.- 13A 0.37 hours; 11A 0.20 hours.

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

HABITAT QUALITY INDEX.--.NA

COMMENTS.--Large river.

BIOLOGICAL DATA JULY 2000
FISH COLLECTION DATA

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	July 12								
Catostomidae (Suckers)									
Catostomus columbianus (Bridgelip sucker)		10	6.8	278-380	227-520	NATIVE	HERBIVORE	COLD	10-AA
Catostomus macrocheilus (Largescale sucker)		67	45.6	36-537	1-1505	NATIVE	OMNIVORE	COLD	1-PA,1-BL, 1-LE,63-AA
Centrarchidae (sunfishes)									
Micropterus dolomieui (Smallmouth bass)		19	12.9	28-336	1-410	INTRODUCED	PISCIVORE	COOL	19-AA
Cyprinidae (Carps and minnows)									
Acrocheilus alutaceus (Chislemouth)		6	4.1	40-275	1-200	NATIVE	HERBIVORE	COLD	1-PA,5-AA
Cyprinus carpio (Common Carp)		7	4.8	60-680	1520-5600	INTRODUCED	OMNIVORE	WARM	7-AA
Ptychocheilus oregonensis (Northern pikeminnow)		1	0.7	415	680	NATIVE	INVERTIVORE	COOL	1-AA
Ictaluridae (Bullhead catfishes)									
Ictalurus punctatus (Channel catfish)		1	0.7	496	1045	INTRODUCED	OMNIVORE	WARM	1-AA
Salmonidae (Trouts)									
Prosopium williamsoni (Mountain whitefish)		36	24.5	124-374	17-583	NATIVE	INVERTIVORE	COLD	36-AA

TOTAL NUMBER OF TAXA 8
TOTAL INDIVIDUALS 147

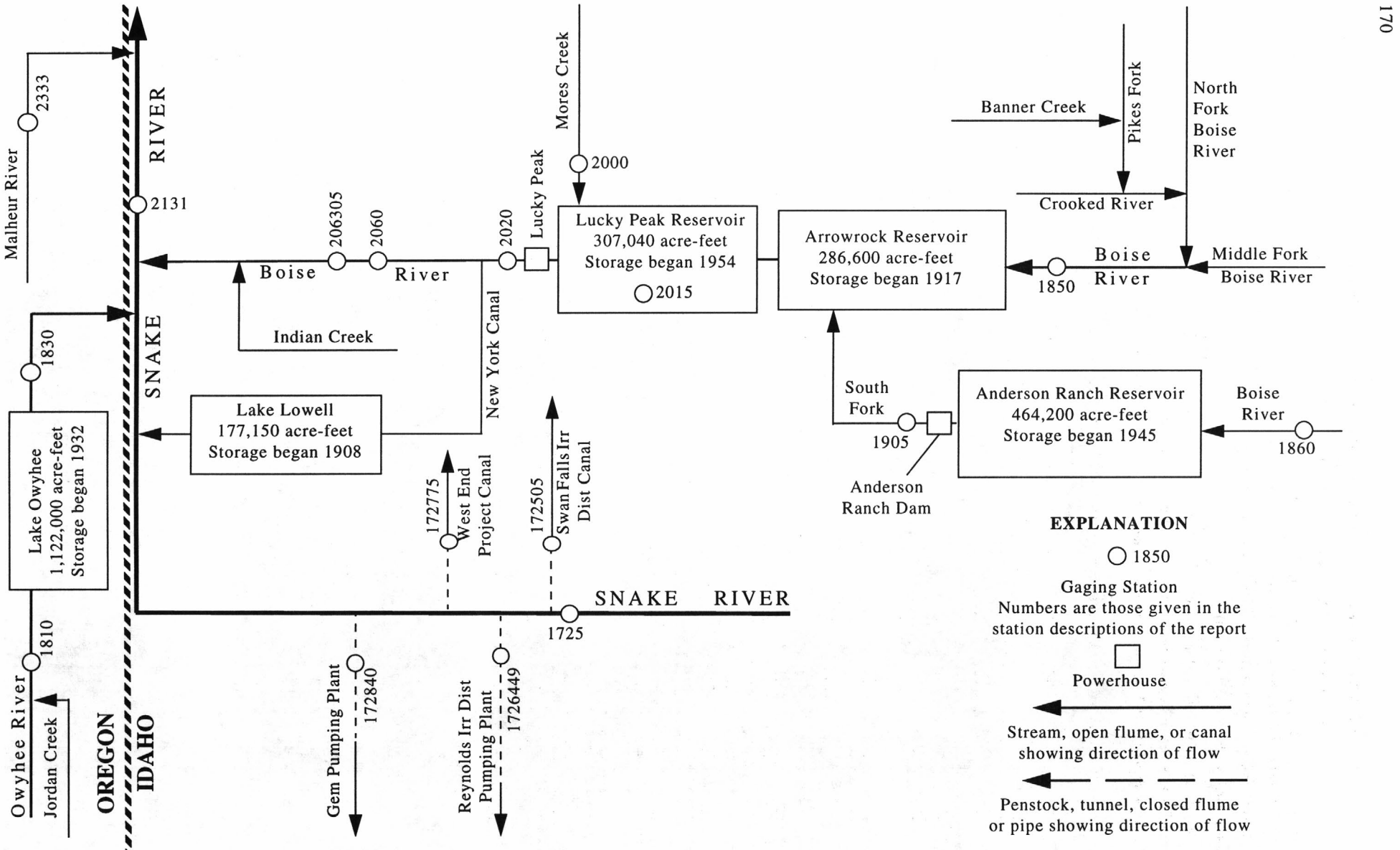


Figure 14. Gaging stations in Boise, Owyhee, Malheur and middle Snake River basins.

DIVERSIONS FROM SNAKE RIVER
BETWEEN SNAKE RIVER NEAR MURPHY AND SNAKE RIVER AT NYSSA

13172505 SWAN FALLS IRRIGATION DISTRICT CANAL NEAR MURPHY, ID

LOCATION.--Lat 43°17'44", long 116°24'55", in NE¼SE¼NE¼ sec.35, T.1 S., R.1 W., Ada County, Hydrologic Unit 17050103, on rim above right bank of Snake River, 0.7 mi west of Swan Falls road, and 14 mi south of Kuna.

PERIOD OF RECORD.--April to September 2000 (irrigation season only).

REVISED RECORDS.--WSP 1737: 1933(M).

GAGE.--Water-stage recorder. Elevation of gage is 2,820 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 28 ft^3/s June 4 to July 20, 2000; no flow for long periods.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e.00	11	e19	e28	19	17
2	---	---	---	---	---	---	e.00	15	e26	e28	20	16
3	---	---	---	---	---	---	e.00	17	e26	e28	22	14
4	---	---	---	---	---	---	e.00	16	e28	e28	14	14
5	---	---	---	---	---	---	e.00	13	e28	e28	7.1	16
6	---	---	---	---	---	---	e.00	13	e28	e28	10	17
7	---	---	---	---	---	---	e.00	14	e28	e28	9.8	18
8	---	---	---	---	---	---	e.00	15	e28	e28	9.5	18
9	---	---	---	---	---	---	e.00	11	e28	e28	12	18
10	---	---	---	---	---	---	e.00	11	e28	e28	15	17
11	---	---	---	---	---	---	.22	9.8	e28	e28	17	15
12	---	---	---	---	---	---	.87	8.8	e28	e28	19	14
13	---	---	---	---	---	---	.00	8.8	e28	e28	19	12
14	---	---	---	---	---	---	.00	5.1	e28	e28	17	12
15	---	---	---	---	---	---	.00	e5.5	e28	e28	17	8.7
16	---	---	---	---	---	---	.00	e11	e28	e28	22	13
17	---	---	---	---	---	---	5.5	e8.0	e28	e28	24	14
18	---	---	---	---	---	---	8.4	e9.5	e28	e28	23	14
19	---	---	---	---	---	---	8.4	e12	e28	e28	21	14
20	---	---	---	---	---	---	8.4	e13	e28	e28	19	12
21	---	---	---	---	---	---	8.4	e13	e28	e26	18	16
22	---	---	---	---	---	---	10	e18	e28	23	18	14
23	---	---	---	---	---	---	11	e18	e28	21	18	14
24	---	---	---	---	---	---	11	e15	e28	23	18	14
25	---	---	---	---	---	---	11	e13	e28	26	18	16
26	---	---	---	---	---	---	12	e15	e28	26	18	20
27	---	---	---	---	---	---	11	e18	e28	24	18	21
28	---	---	---	---	---	---	14	e18	e28	19	17	19
29	---	---	---	---	---	---	17	e15	e28	25	15	16
30	---	---	---	---	---	---	14	e13	e28	27	17	15
31	---	---	---	---	---	---	---	e15	---	25	17	---
TOTAL	---	---	---	---	---	---	151.19	398.5	827	825	528.4	458.7
MEAN	---	---	---	---	---	---	5.04	12.9	27.6	26.6	17.0	15.3
MAX	---	---	---	---	---	---	17	18	28	28	24	21
MIN	---	---	---	---	---	---	.00	5.1	19	19	7.1	8.7
AC-FT	---	---	---	---	---	---	300	790	1640	1640	1050	910

e Estimated

DIVERSIONS FROM SNAKE RIVER
BETWEEN SNAKE RIVER NEAR MURPHY AND SNAKE RIVER AT NYSSA

131726449 REYNOLDS IRRIGATION DISTRICT PUMPING PLANT NEAR WALTERS FERRY, ID

LOCATION.--Lat 43°20'02", long 116°37'02", in NW¼SW¼ sec.18, T.1 S., R.2 W., Owyhee County, Hydrologic Unit 17050103, on left bank of Snake River, approximately 1 mi southwest of Walters Ferry.

PERIOD OF RECORD.--April to September 2000 (irrigation season only).

GAGE.--In-line flow sensor with datalogger.

REMARKS.--Records good except for estimated daily discharges, which are fair. In-line flow sensor rated by ultrasonic flowmeter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 34 ft³/s June 7, 2000; no flow for long periods.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e.00	e28	33	e30	28	31
2	---	---	---	---	---	---	e.00	e28	33	e30	28	30
3	---	---	---	---	---	---	e.00	e28	33	e30	28	30
4	---	---	---	---	---	---	e.00	e28	33	e30	28	30
5	---	---	---	---	---	---	e.00	e30	33	e30	30	30
6	---	---	---	---	---	---	e.00	e30	33	e30	29	30
7	---	---	---	---	---	---	e.00	e30	34	e30	30	30
8	---	---	---	---	---	---	e.00	e30	33	e30	30	29
9	---	---	---	---	---	---	e.00	28	32	e30	30	29
10	---	---	---	---	---	---	e.00	28	30	e30	25	29
11	---	---	---	---	---	---	.00	27	30	e30	31	29
12	---	---	---	---	---	---	4.9	27	32	e28	31	29
13	---	---	---	---	---	---	15	27	33	e30	30	29
14	---	---	---	---	---	---	16	27	32	e30	29	28
15	---	---	---	---	---	---	19	e28	e32	e30	30	28
16	---	---	---	---	---	---	20	28	e32	e30	31	28
17	---	---	---	---	---	---	20	27	e32	e30	31	28
18	---	---	---	---	---	---	20	27	e32	e30	31	28
19	---	---	---	---	---	---	e22	30	e32	29	31	28
20	---	---	---	---	---	---	e22	31	e32	29	31	28
21	---	---	---	---	---	---	e22	31	e32	27	31	29
22	---	---	---	---	---	---	e22	31	e32	27	31	29
23	---	---	---	---	---	---	e22	32	e32	27	31	29
24	---	---	---	---	---	---	e22	32	e32	27	30	29
25	---	---	---	---	---	---	e22	33	e32	27	30	29
26	---	---	---	---	---	---	e22	33	e32	28	31	30
27	---	---	---	---	---	---	e22	33	e32	30	30	30
28	---	---	---	---	---	---	e26	32	e32	28	30	29
29	---	---	---	---	---	---	28	33	e30	29	30	29
30	---	---	---	---	---	---	e28	33	e30	29	31	30
31	---	---	---	---	---	---	---	33	---	29	31	---
TOTAL	---	---	---	---	---	---	394.90	923	962	904	928	874
MEAN	---	---	---	---	---	---	13.2	29.8	32.1	29.2	29.9	29.1
MAX	---	---	---	---	---	---	28	33	34	30	31	31
MIN	---	---	---	---	---	---	.00	27	30	27	25	28
AC-FT	---	---	---	---	---	---	783	1830	1910	1790	1840	1730

e Estimated

DIVERSIONS FROM SNAKE RIVER
BETWEEN SNAKE RIVER NEAR MURPHY AND SNAKE RIVER AT NYSSA

13172775 WEST END PROJECT CANAL NEAR MELBA, ID

LOCATION.--Lat 43°25'45", long 116°42'19", in NE¼NW¼ sec.16, T.1 N., R.3 W., Canyon County, Givens Hot Springs Quad., Hydrologic Unit 17050103, on right bank of Snake River, approximately 1 mi north of Givens Hot Springs.

PERIOD OF RECORD.--April to September 2000 (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 2,720 ft above sea level, from topographic map.

REMARKS.--Records fair. Canal carries water pumped from the Snake River.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge during period April to September 2000, 81 ft^3/s June 30, 2000; no flow for long periods.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.00	48	e60	75	e65	60
2	---	---	---	---	---	---	.00	57	e55	72	e70	43
3	---	---	---	---	---	---	8.4	55	e50	e70	e65	19
4	---	---	---	---	---	---	12	53	e50	e70	e65	33
5	---	---	---	---	---	---	20	48	e65	e55	e60	37
6	---	---	---	---	---	---	10	39	e65	e70	e48	39
7	---	---	---	---	---	---	.00	18	e60	e60	e75	41
8	---	---	---	---	---	---	13	29	e70	e65	e65	38
9	---	---	---	---	---	---	13	27	e65	e50	e60	32
10	---	---	---	---	---	---	23	28	e42	e60	e55	12
11	---	---	---	---	---	---	30	e38	e22	e65	e50	38
12	---	---	---	---	---	---	31	e40	44	e55	e50	51
13	---	---	---	---	---	---	24	e42	56	e75	e50	49
14	---	---	---	---	---	---	25	e46	59	e65	e60	45
15	---	---	---	---	---	---	19	e36	62	e60	e60	40
16	---	---	---	---	---	---	12	e50	67	e60	e55	25
17	---	---	---	---	---	---	29	e50	66	e65	e60	.00
18	---	---	---	---	---	---	35	e40	55	e70	e60	39
19	---	---	---	---	---	---	33	e42	64	e60	64	55
20	---	---	---	---	---	---	29	e55	68	e55	58	51
21	---	---	---	---	---	---	26	e46	74	e65	67	48
22	---	---	---	---	---	---	21	e50	77	e55	72	53
23	---	---	---	---	---	---	15	e55	73	e55	70	41
24	---	---	---	---	---	---	29	e70	78	e55	67	24
25	---	---	---	---	---	---	35	e65	67	65	66	21
26	---	---	---	---	---	---	39	e70	67	63	53	21
27	---	---	---	---	---	---	47	e65	75	64	25	24
28	---	---	---	---	---	---	39	e60	79	47	58	33
29	---	---	---	---	---	---	33	e70	80	47	67	32
30	---	---	---	---	---	---	21	e70	81	e50	67	17
31	---	---	---	---	---	---	---	e55	---	e55	67	---
TOTAL	---	---	---	---	---	---	671.40	1517	1896	1898	1874	1061.00
MEAN	---	---	---	---	---	---	22.4	48.9	63.2	61.2	60.5	35.4
MAX	---	---	---	---	---	---	47	70	81	75	75	60
MIN	---	---	---	---	---	---	.00	18	22	47	25	.00
AC-FT	---	---	---	---	---	---	1330	3010	3760	3760	3720	2100

e Estimated

DIVERSIONS FROM SNAKE RIVER BETWEEN SNAKE RIVER NEAR MURPHY AND SNAKE RIVER AT NYSSA

13172840 GEM PUMPING PLANT NEAR MARSING, ID

LOCATION.--Lat 43°30'56", long 116°47'08", in NW¼NW¼ sec.14, T.2 S., R.4 W., Owyhee County, Hydrologic Unit 17050103, on left bank of Snake River, approximately 2 mi southeast of Marsing.

PERIOD OF RECORD.--April 1989 to current year (irrigation seasons only).

GAGE.--In-line flow sensor with datalogger.

REMARKS.--Records fair. In-line flow sensor rated by ultrasonic flowmeter and current meter measurements.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 334 ft^3/s June 17-20, 1996; no flow for long periods each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e116	---	---	---	---	---	.00	221	e271	323	300	274
2	e116	---	---	---	---	---	.00	233	e269	325	322	240
3	e116	---	---	---	---	---	.00	233	e268	327	322	241
4	e110	---	---	---	---	---	.00	231	e267	328	318	214
5	e106	---	---	---	---	---	.00	231	e287	325	321	201
6	e107	---	---	---	---	---	71	224	e297	326	324	e178
7	e107	---	---	---	---	---	94	218	e303	326	326	e166
8	e106	---	---	---	---	---	e88	218	e302	326	325	e167
9	e106	---	---	---	---	---	e88	192	295	326	325	e168
10	e106	---	---	---	---	---	e87	187	294	330	323	e167
11	e104	---	---	---	---	---	e137	192	294	329	326	e167
12	e113	---	---	---	---	---	187	200	292	332	328	e166
13	e115	---	---	---	---	---	e198	198	294	333	328	e167
14	e115	---	---	---	---	---	e193	198	291	333	331	e169
15	e115	---	---	---	---	---	e193	220	291	330	331	e172
16	e114	---	---	---	---	---	e192	235	290	328	329	e173
17	e114	---	---	---	---	---	e201	232	290	327	328	e170
18	e87	---	---	---	---	---	e201	232	290	326	330	e170
19	e65	---	---	---	---	---	e207	232	291	323	331	e169
20	e29	---	---	---	---	---	e205	232	292	322	332	e169
21	.00	---	---	---	---	---	e205	234	293	318	329	e169
22	.00	---	---	---	---	---	e207	255	294	314	315	e169
23	.00	---	---	---	---	---	e206	271	316	315	306	e169
24	.00	---	---	---	---	---	e207	267	325	317	307	e168
25	.00	---	---	---	---	---	e208	268	325	318	298	e168
26	.00	---	---	---	---	---	e209	265	326	313	298	e168
27	.00	---	---	---	---	---	e206	267	330	316	299	e167
28	.00	---	---	---	---	---	e206	267	330	318	302	e167
29	.00	---	---	---	---	---	205	e270	326	318	285	e160
30	.00	---	---	---	---	---	208	e271	322	318	283	e157
31	.00	---	---	---	---	---	---	e270	---	320	284	---
TOTAL	2067.00	---	---	---	---	---	4409.00	7264	8955	10030	9806	5370
MEAN	66.7	---	---	---	---	---	147	234	298	324	316	179
MAX	116	---	---	---	---	---	209	271	330	333	332	274
MIN	.00	---	---	---	---	---	.00	187	267	313	283	157
AC-FT	4100	---	---	---	---	---	8750	14410	17760	19890	19450	10650

e Estimated

OWYHEE RIVER BASIN

13181000 OWYHEE RIVER NEAR ROME, OR

LOCATION.--Lat 42°52'02", long 117°38'52", in SE¼NE¼ sec.14, T.31 S., R.41 E., Malheur County, Oregon, Hydrologic Unit 17050107, on right bank 0.5 mi downstream from Jordan Creek, 2.6 mi north of Rome, and at mile 122.4.

DRAINAGE AREA.--8,000 mi^2, approximately.

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,344.20 ft above sea level. Prior to Feb. 10, 1960, at datum 0.24 ft lower.

REMARKS.--No estimated daily discharges. Records fair. Station equipment includes satellite telemetry. Flow regulated by Antelope Reservoir, capacity, 70,000 acre-ft, increased in 1970, and Wild Horse Reservoir, capacity, 32,690 acre-ft, and numerous small reservoirs. Diversions upstream from station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,700 ft^3/s Mar. 18, 1993, gage height, 20.11 ft; minimum, 42 ft^3/s Aug. 12, 1954, July 28, Aug. 5, 1961, July 31, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 5	0530	*4,580	*5.93

No peaks greater than base discharge.

Minimum daily, 63 ft^3/s Aug. 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	179	217	167	270	1500	1840	740	278	128	81	77
2	144	180	217	176	254	1130	2080	753	275	127	87	83
3	146	184	214	181	254	1100	3010	712	268	122	82	93
4	165	186	204	182	241	1030	3720	660	254	118	87	115
5	163	183	198	182	237	1290	3770	575	243	122	85	129
6	159	180	163	182	237	1800	3540	539	221	118	82	128
7	156	180	174	179	242	2170	2540	539	203	114	84	129
8	159	179	209	185	250	2000	1980	551	191	108	81	135
9	159	177	203	179	254	2200	1660	540	205	107	76	131
10	156	177	183	186	261	1990	1500	539	212	101	74	140
11	156	178	209	194	287	1720	1410	533	204	104	70	142
12	156	180	191	205	364	1250	1390	525	208	102	70	131
13	158	180	209	209	448	1030	1400	493	210	131	75	119
14	163	180	203	214	514	861	1490	473	219	130	79	108
15	168	180	181	214	879	861	1760	441	206	143	83	102
16	168	184	198	215	2200	1330	1850	413	197	155	80	102
17	168	189	237	216	1220	1280	1560	378	192	172	75	104
18	168	188	245	212	834	1130	1280	354	178	181	73	104
19	171	186	233	226	650	960	1160	347	168	175	70	103
20	185	188	224	223	535	1270	1140	348	163	164	73	101
21	188	196	223	228	463	1860	1480	357	166	143	72	97
22	185	196	215	236	405	1390	1200	356	174	130	68	95
23	183	191	204	243	483	1210	1090	339	163	119	69	93
24	183	187	196	263	841	1870	1050	314	153	117	67	93
25	183	199	185	275	1240	2120	1020	297	151	115	67	98
26	183	197	164	266	877	2000	994	272	151	113	63	100
27	183	207	161	271	667	2470	944	263	144	107	64	97
28	180	206	165	263	1170	2840	863	259	140	98	65	100
29	177	213	164	264	1740	2830	789	262	138	94	65	102
30	177	221	166	247	---	2380	725	287	127	84	65	106
31	177	---	169	227	---	2000	---	293	---	80	69	---
TOTAL	5210	5651	6124	6710	18317	50872	50235	13752	5802	3822	2301	3257
MEAN	168	188	198	216	632	1641	1674	444	193	123	74.2	109
MAX	188	221	245	275	2200	2840	3770	753	278	181	87	142
MIN	143	177	161	167	237	861	725	259	127	80	63	77
AC-FT	10330	11210	12150	13310	36330	100900	99640	27280	11510	7580	4560	6460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2000, BY WATER YEAR (WY)

MEAN	164	216	387	690	1257	2515	2907	2019	903	259	154	140
MAX	442	593	2898	4461	8820	9404	16960	10470	4870	1035	452	361
(WY)	1976	1971	1965	1971	1986	1972	1952	1984	1984	1984	1984	1984
MIN	85.3	107	104	114	129	233	144	86.5	89.6	61.2	56.0	62.5
(WY)	1955	1955	1955	1955	1955	1977	1992	1992	1992	1968	1992	1955

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1950 - 2000	
ANNUAL TOTAL	337067		172053			
ANNUAL MEAN	923		470		965	
HIGHEST ANNUAL MEAN					3400	1984
LOWEST ANNUAL MEAN					162	1992
HIGHEST DAILY MEAN	8390	Mar 27	3770	Apr 5	46900	Mar 18 1993
LOWEST DAILY MEAN	133	Sep 18	63	Aug 26	44	Aug 1 1968
ANNUAL SEVEN-DAY MINIMUM	141	Sep 14	65	Aug 24	47	Jul 26 1968
ANNUAL RUNOFF (AC-FT)	668600		341300		698800	
10 PERCENT EXCEEDS	2420		1390		2550	
50 PERCENT EXCEEDS	260		195		237	
90 PERCENT EXCEEDS	161		93		109	

OWYHEE RIVER BASIN

13183000 OWYHEE RIVER BELOW OWYHEE DAM, OR

LOCATION.--Lat 43°39'17", long 117°15'16", in SE¼ sec.18, T.22 S., R.45 E., Malheur County, Oregon, Hydrologic Unit 17050110, on left bank 0.8 mi downstream from Owyhee Dam, 20 mi southwest of Nyssa, and at mile 27.3.

DRAINAGE AREA.--11,160 mi^2, approximately.

PERIOD OF RECORD.--February 1929 to current year.

REVISED RECORDS.--WSP 983: 1941-42. WSP 1397: 1930, 1933, 1946.

GAGE.--Water-stage recorder. Datum of gage is 2,343.67 ft above sea level (levels by Bureau of Reclamation).

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated since October 1932 by Lake Owyhee (sta 13182500), and by many smaller reservoirs. Diversion of up to 457,000 acre-ft from Lake Owyhee during the year for irrigation of lands downstream from station and outside the basin. Many smaller diversions upstream from Lake Owyhee for irrigation upstream from station. Computation of monthly and annual adjusted flows discontinued in 1991.

AVERAGE DISCHARGE.--68 years (water years 1933-2000), 421 ft^3/s, 305,000 acre-ft/yr, not adjusted for storage or diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,900 ft^3/s Apr. 15, 1952, gage height, 15.70 ft; no flow for part of Aug. 8, 9, 1932, when temporary diversion tunnel at Owyhee Dam was closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 280 ft^3/s Apr. 29 to May 4; minimum daily, 8.7 ft^3/s Nov. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	242	113	13	13	25	11	258	280	263	256	253	243
2	242	9.0	13	13	20	12	258	280	262	256	252	245
3	243	11	13	12	9.3	12	258	280	262	256	251	245
4	243	12	13	13	9.0	13	259	280	261	256	250	245
5	242	12	12	12	9.2	13	262	279	261	256	250	245
6	242	12	12	12	9.4	13	261	279	261	255	250	243
7	242	8.7	12	11	9.5	13	263	279	260	253	250	242
8	242	9.1	12	12	9.6	13	264	277	258	253	250	243
9	242	9.2	12	12	9.8	13	266	277	258	253	250	245
10	242	9.4	13	12	10	13	267	277	258	253	250	245
11	242	9.6	13	12	11	13	269	277	258	253	250	245
12	242	9.8	12	11	11	13	269	276	258	253	250	245
13	242	9.7	13	11	10	13	272	275	258	253	250	244
14	242	10	13	11	10	157	271	274	260	253	250	244
15	242	11	13	11	9.4	234	272	274	260	253	250	243
16	242	11	13	11	9.4	253	265	274	261	253	249	243
17	242	11	13	11	9.5	253	274	272	259	253	249	244
18	241	12	13	10	9.8	252	275	271	258	253	249	244
19	240	12	13	10	10	252	275	271	258	253	250	245
20	240	13	13	10	10	251	277	271	258	253	250	245
21	240	13	13	10	10	250	277	268	258	253	249	245
22	240	13	13	9.8	10	250	277	266	258	253	248	245
23	240	13	13	9.5	11	250	277	248	258	253	248	245
24	240	14	13	9.4	10	251	277	269	258	252	248	245
25	240	14	13	9.4	10	253	277	269	259	251	248	245
26	240	14	13	9.4	11	253	277	267	259	251	248	244
27	240	14	13	9.4	11	254	277	266	256	249	248	245
28	240	14	13	9.3	11	255	279	266	255	253	247	245
29	240	14	13	9.3	11	256	280	264	255	253	246	245
30	240	14	13	9.0	---	271	280	263	255	253	245	245
31	240	---	13	9.0	---	264	---	263	---	253	246	---
TOTAL	7477	451.5	397	333.5	315.9	4624	8113	8432	7763	7851	7724	7332
MEAN	241	15.1	12.8	10.8	10.9	149	270	272	259	253	249	244
MAX	243	113	13	13	25	271	280	280	263	256	253	245
MIN	240	8.7	12	9.0	9.0	11	258	248	255	249	245	242
AC-FT	14830	896	787	661	627	9170	16090	16720	15400	15570	15320	14540

CAL YR 1999 TOTAL 135970.5 MEAN 373 MAX 2560 MIN 8.7 AC-FT 269700
WTR YR 2000 TOTAL 60813.9 MEAN 166 MAX 280 MIN 8.7 AC-FT 120600

BOISE RIVER BASIN

13185000 BOISE RIVER NEAR TWIN SPRINGS, ID

LOCATION.--Lat 43°39'33", long 115°43'34", in NW¼NE¼ sec.27, T.4 N., R.6 E., Boise County, Hydrologic Unit 17050112, Boise National Forest, on right bank 0.7 mi upstream from Birch Creek, 1.8 mi upstream from maximum flow line of Arrowrock Reservoir, 3.2 mi downstream from Twin Springs, 13 mi upstream from Arrowrock Dam, and at mile 88.5.

DRAINAGE AREA.--830 mi^2, approximately. Mean elevation, 6,350 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1911 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,255.70 ft above sea level. March 1911 to Apr. 3, 1915, nonrecording gage, and Apr. 4, 1915 to Sept. 30, 1965, water-stage recorder at site 0.3 mi downstream at datum 5.26 ft lower.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,800 ft^3/s Dec. 23, 1964, gage height, 12.20 ft, from floodmark (site and datum then in use); minimum, 105 ft^3/s Nov. 28, 1976, gage height, 2.64 ft; minimum gage height, 1.48 ft, Dec. 6, 7, 1960 (site and datum then in use).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 14	0215	3,940	6.55	May 5	0845	4,200	6.74
Apr. 22	0215	4,120	6.68	May 25	0545	*4,830	*7.17

Minimum daily, 208 ft^3/s Jan. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	372	391	560	e400	506	741	1260	3210	2630	1010	425	374
2	366	381	524	e420	480	744	1470	3490	2460	966	409	488
3	367	373	456	407	433	763	1910	3750	2570	931	397	477
4	366	380	309	419	417	823	2240	3970	2840	899	415	399
5	361	421	348	442	444	998	2870	3920	3050	844	420	373
6	367	403	510	353	450	1240	2630	3470	3250	823	395	361
7	390	382	495	355	463	1260	2210	3120	3140	780	387	354
8	372	373	440	473	481	1120	2070	2850	3200	753	373	343
9	365	367	416	451	503	1030	2460	2700	2800	721	366	332
10	360	364	450	446	543	910	2630	2640	2400	704	357	332
11	357	359	429	534	599	845	2730	2470	2120	683	352	356
12	351	355	442	485	641	783	2950	2310	2190	660	348	346
13	346	351	487	423	621	751	3480	2180	3140	640	344	328
14	346	346	426	490	645	800	3690	2110	2640	622	338	314
15	344	340	428	522	781	796	3370	2110	2580	607	332	301
16	342	342	449	540	702	795	3030	2210	2460	600	331	295
17	342	363	465	534	645	784	2800	2330	2080	596	321	294
18	359	377	470	501	565	729	2890	2660	1890	613	313	294
19	358	350	449	508	517	934	3220	3020	1810	594	310	296
20	354	389	422	498	557	898	3460	3200	1720	564	313	297
21	351	379	e340	489	644	852	3740	3420	1620	547	315	299
22	349	321	e260	467	649	876	3920	4030	1580	530	316	308
23	348	250	e220	433	762	1040	3700	4530	1560	509	309	345
24	344	324	e240	453	853	1070	3270	4540	1490	501	313	338
25	341	494	e260	472	741	1060	2930	4610	1410	495	308	333
26	339	1060	e260	462	711	1130	2740	4060	1330	489	295	326
27	345	1010	e280	389	710	1370	2690	3640	1250	491	290	319
28	537	642	e300	256	751	1650	3360	3630	1170	469	296	312
29	567	561	e300	208	762	1500	3450	3620	1110	452	287	307
30	434	535	e300	222	---	1320	3230	3330	1050	441	287	305
31	406	---	e340	520	---	1240	---	2980	---	435	289	---
TOTAL	11546	12983	12075	13572	17576	30852	86400	100110	64540	19969	10551	10146
MEAN	372	433	390	438	606	995	2880	3229	2151	644	340	338
MAX	567	1060	560	540	853	1650	3920	4610	3250	1010	425	488
MIN	339	250	220	208	417	729	1260	2110	1050	435	287	294
AC-FT	22900	25750	23950	26920	34860	61190	171400	198600	128000	39610	20930	20120
CFSM	.45	.52	.47	.53	.73	1.20	3.47	3.89	2.59	.78	.41	.41
IN.	.52	.58	.54	.61	.79	1.38	3.87	4.49	2.89	.89	.47	.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2000, BY WATER YEAR (WY)

MEAN	390	442	479	463	524	862	2148	3757	3342	1213	468	370
MAX	699	1099	1748	2076	1474	2627	5658	6737	6804	2975	892	584
(WY)	1960	1928	1965	1997	1986	1986	1943	1958	1974	1943	1965	1965
MIN	246	263	265	265	283	326	717	782	672	321	224	223
(WY)	1989	1937	1936	1919	1920	1977	1977	1977	1992	1924	1934	1934

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1911 - 2000	
ANNUAL TOTAL	541015		390320			
ANNUAL MEAN	1482		1066		1204	
HIGHEST ANNUAL MEAN					2091	1997
LOWEST ANNUAL MEAN					442	1977
HIGHEST DAILY MEAN	8030	May 26	4610	May 25	15400	Dec 23 1964
LOWEST DAILY MEAN	220	Dec 23	208	Jan 29	123	Nov 28 1976
ANNUAL SEVEN-DAY MINIMUM	260	Dec 22	260	Dec 22	183	Dec 8 1932
ANNUAL RUNOFF (AC-FT)	1073000		774200		872200	
ANNUAL RUNOFF (CFSM)	1.79		1.28		1.45	
ANNUAL RUNOFF (INCHES)	24.25		17.49		19.71	
10 PERCENT EXCEEDS	4090		3020		3310	
50 PERCENT EXCEEDS	540		502		513	
90 PERCENT EXCEEDS	351		313		300	

e Estimated

13185000 BOISE RIVER NEAR TWIN SPRINGS, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1958 to September 1959, November 1974 to November 1980, November 1990 to September 1991, November 1993 to September 1994, May to June 1995, May to June 1996, April to September 1997, June to August 1998, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: August to September 1997, June to August 1998, August to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 24.1 °C Aug. 1-2, 2000.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 24.1 °C Aug. 1-2.

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

DATE	TIME (00061)	DISCHARGE, INST. CUBIC FEET PER SECOND (00095)	SPECIFIC CONDUCTANCE (US/CM) (00400)	PH WATER WHOLE FIELD (STANDARD UNITS) (00020)	TEMPERATURE AIR (DEG C) (00010)	TEMPERATURE WATER (DEG C) (00076)	TURBIDITY (NTU) (00300)	OXYGEN, DISSOLVED (MG/L) (00301)	OXYGEN, DISSOLVED (PERCENT SATURATION) (31625)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31673)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
APR											
14...	0830	3780	99	7.2	10.0	5.2	11	10.8	97	K7	35
MAY											
12...	1110	2300	48	7.6	13.0	5.8	1.3	11.6	104	K1	K3
JUN											
05...	1100	3150	35	7.4	27.0	10.9	1.6	10.2	105	K13	55
JUL											
13...	1040	631	64	7.7	29.0	18.0	.5	9.2	110	K4	28
AUG											
28...	1100	321	87	8.0	23.0	16.2	<.5	9.6	110	K10	16
SEP											
14...	1110	332	90	8.0	25.0	15.4	<.5	9.8	110	K3	12

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
14...	34	12.0	.95	5.7	26	.6	50	0

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)
SEP								
14...	41	2.9	.6	.6	15.5	63	.09	56.7

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
APR							
14...	.145	<.002	.37	.082	.008	69	704
MAY							
12...	.077	<.002	.12	<.008	.002	13	81
JUN							
05...	.038	<.002	E.10	.014	<.001	17	145
JUL							
13...	.005	.002	<.10	<.008	.003	1	1.7
AUG							
28...	<.005	<.002	E.10	<.008	.001	1	.87
SEP							
14...	<.005	.003	E.10	E.007	.001	1	.90

K Results based on counts outside ideal colony range.

BOISE RIVER BASIN

13185000 BOISE RIVER NEAR TWIN SPRINGS, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, AUGUST TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		AUGUST			SEPTEMBER	
1	24.1	19.4	21.8	16.5	14.7	15.7
2	24.1	20.1	22.3	15.4	13.3	14.3
3	22.2	18.5	20.5	14.8	11.4	13.1
4	23.7	19.8	21.4	16.9	12.5	14.7
5	23.6	18.9	21.3	16.9	14.3	15.7
6	22.1	17.8	20.1	16.9	12.6	14.9
7	2 6	17.3	20.1	17.0	12.3	14.8
8	22.4	17.3	20.1	15.8	12.5	14.5
9	22.7	18.1	20.6	15.8	12.3	14.0
10	22.7	18.3	20.8	13.6	10.8	12.2
11	22.7	18.6	20.8	16.9	11.7	14.1
12	21.7	16.7	19.5	18.0	13.1	15.6
13	21.4	16.7	19.3	18.5	14.3	16.5
14	21.4	16.4	19.2	19.1	14.7	17.0
15	21.4	16.2	19.0	18.5	15.0	17.0
16	21.2	15.9	18.9	19.1	15.4	17.4
17	21.1	15.9	18.8	19.6	15.9	17.8
18	21.1	16.5	18.9	18.6	15.8	17.5
19	20.4	16.1	18.5	17.8	15.4	16.7
20	19.9	15.8	18.0	16.4	13.4	15.2
21	19.4	14.5	17.2	15.6	12.3	14.1
22	19.8	14.8	17.6	14.3	11.6	12.4
23	19.3	15.4	17.6	12.6	9.5	11.1
24	21.2	16.7	18.8	11.7	8.2	10.2
25	21.6	16.9	19.4	12.0	8.0	10.2
26	20.1	16.9	18.7	12.5	8.6	10.7
27	20.4	15.9	18.3	12.8	8.9	11.0
28	19.8	15.6	18.0	13.1	10.2	11.7
29	19.3	14.7	17.4	13.9	10.6	12.4
30	19.8	15.3	17.8	14.8	11.4	13.1
31	18.5	15.1	16.4	---	---	---
MONTH	24.1	14.5	19.3	19.6	8.0	14.2

BOISE RIVER BASIN

13186000 SOUTH FORK BOISE RIVER NEAR FEATHERVILLE, ID

LOCATION.--Lat 43°29'40", long 115°18'20", in lot 6, NE¼ sec.19, T.2 N., R.10 E., Elmore County, Hydrologic Unit 17050113, on right bank, 2.5 mi upstream from Deer Creek, 8 mi southwest of Featherville, and at mile 59.0.

DRAINAGE AREA.--635 mi^2. Mean elevation, 6,840 ft.

PERIOD OF RECORD.--April 1945 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,218.56 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. No regulation. Diversions above station for irrigation of about 450 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,030 ft^3/s May 17, 1997, gage height, 7.74 ft; maximum gage height, 7.87 ft, May 30, 1983; minimum discharge, 30 ft^3/s Feb. 10, 1949, gage height, 0.60 ft, result of snowslide upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 5	0615	2,380	4.48	May 25	0330	*3,220	*5.12

Minimum daily, 152 ft^3/s Dec. 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e240	246	280	246	250	282	591	1840	1770	547	225	203
2	e240	242	261	e240	265	283	717	2010	1660	527	219	295
3	e240	240	231	e220	254	291	929	2190	1690	511	217	285
4	e240	242	e170	e240	243	306	1050	2320	1780	499	228	247
5	236	250	157	240	255	346	1300	2290	1860	470	239	227
6	235	247	e220	227	251	456	1220	2070	1920	444	226	217
7	241	249	e260	225	244	432	1060	1910	1850	435	220	212
8	240	245	e220	244	244	390	1040	1760	1850	425	212	207
9	237	246	e200	252	257	390	1190	1630	1730	409	208	201
10	235	245	e240	257	264	356	1260	1540	1500	395	205	199
11	233	245	e240	235	265	349	1350	1430	1330	383	201	204
12	229	244	259	232	268	330	1460	1320	1320	379	197	197
13	229	241	274	246	263	327	1630	1230	1530	362	194	195
14	229	239	244	261	274	358	1590	1190	1380	346	191	203
15	228	237	246	277	267	363	1530	1210	1370	339	190	197
16	229	238	259	278	266	366	1420	1310	1320	333	186	192
17	233	242	263	260	258	364	1360	1430	1160	323	179	191
18	240	244	263	246	238	347	1420	1660	1060	319	170	195
19	238	235	250	258	198	385	1620	1880	1000	312	172	191
20	237	260	227	261	217	358	1710	2020	948	306	175	189
21	233	248	209	260	283	347	1810	2190	887	301	180	192
22	230	216	188	246	302	371	1980	2580	857	289	180	203
23	230	167	152	231	302	409	1940	2880	829	276	177	238
24	227	189	154	236	302	415	1720	3060	790	269	180	227
25	227	298	169	263	278	424	1570	3080	748	262	175	221
26	227	491	e200	253	271	470	1480	2720	705	253	170	219
27	227	421	218	e220	281	575	1500	2430	670	253	167	213
28	307	307	211	e190	282	667	1880	2410	632	245	166	209
29	316	281	209	e180	285	628	1950	2360	601	238	165	208
30	261	274	e200	e190	---	570	1830	2200	570	233	164	204
31	250	---	231	229	---	556	---	1980	---	229	167	---
TOTAL	7444	7769	6905	7443	7627	12511	43107	62130	37317	10912	5945	6381
MEAN	240	259	223	240	263	404	1437	2004	1244	352	192	213
MAX	316	491	280	278	302	667	1980	3080	1920	547	239	295
MIN	227	167	152	180	198	282	591	1190	570	229	164	189
AC-FT	14770	15410	13700	14760	15130	24820	85500	123200	74020	21640	11790	12660
CFSM	.38	.41	.35	.38	.41	.64	2.26	3.16	1.96	.55	.30	.33
IN.	.44	.46	.40	.44	.45	.73	2.53	3.64	2.19	.64	.35	.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2000, BY WATER YEAR (WY)

MEAN	241	252	245	247	259	406	1272	2633	2390	795	296	232
MAX	366	433	682	751	443	1244	2594	4875	4801	1951	643	396
(WY)	1984	1984	1965	1997	1986	1986	1969	1958	1965	1975	1965	1965
MIN	140	140	142	133	159	192	345	420	329	160	106	104
(WY)	1993	1995	1993	1993	1993	1955	1977	1977	1992	1992	1992	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1945 - 2000	
ANNUAL TOTAL	315251		215491			
ANNUAL MEAN	864		589		775	
HIGHEST ANNUAL MEAN					1369	1965
LOWEST ANNUAL MEAN					254	1977
HIGHEST DAILY MEAN	5340	May 26	3080	May 25	7870	May 17 1997
LOWEST DAILY MEAN	152	Dec 23	152	Dec 23	80	Jan 1 1995
ANNUAL SEVEN-DAY MINIMUM	184	Dec 21	168	Aug 25	95	Aug 28 1994
ANNUAL RUNOFF (AC-FT)	625300		427400		561800	
ANNUAL RUNOFF (CFSM)	1.36		.93		1.22	
ANNUAL RUNOFF (INCHES)	18.47		12.62		16.59	
10 PERCENT EXCEEDS	2450		1700		2260	
50 PERCENT EXCEEDS	280		261		295	
90 PERCENT EXCEEDS	227		195		181	

e Estimated

BOISE RIVER BASIN

13190500 SOUTH FORK BOISE RIVER AT ANDERSON RANCH DAM, ID

LOCATION.--Lat 43°20'30", long 115°28'40", in NW¼ sec.14, T.1 S., R.8 E., Elmore County, Hydrologic Unit 17050113, Boise National Forest, on right bank 600 ft upstream from Dixie Creek, 1.8 mi downstream from Anderson Ranch, 2.2 mi northwest of Bennett, and at mile 41.5.

DRAINAGE AREA.--982 mi^2.

PERIOD OF RECORD.--April 1943 to current year (includes flow of Dixie Creek prior to October 1946).

GAGE.--Water-stage recorder. Datum of gage is 3,830.0 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by Anderson Ranch Reservoir, 1.8 mi upstream (see sta 13190000) beginning Dec. 15, 1945. Flow of Little Camas Creek is stored in Little Camas Reservoir, capacity, 22,300 acre-ft, no spill most years, and diverted out of basin through Little Camas Canal for irrigation of about 5,000 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,850 ft^3/s May 25, 1956, gage height, 10.56 ft; minimum, 0.10 ft^3/s Nov. 13, 1959; minimum gage height, 0.99 ft, Feb. 16, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,380 ft^3/s June 1, gage height, 5.82 ft; minimum daily, 272 ft^3/s Dec. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	319	289	278	293	294	441	1610	1010	2030	1510	1500	571
2	319	293	272	294	293	599	1610	818	1970	1570	1520	576
3	324	289	279	294	291	593	1610	614	1940	1610	1560	577
4	324	287	279	295	291	594	1620	614	1980	1600	1570	576
5	329	288	280	299	291	597	1610	608	2020	1580	1570	575
6	326	287	279	299	293	789	1610	607	2130	1600	1570	569
7	325	286	279	298	291	994	1620	610	2100	1570	1600	572
8	320	288	286	296	306	1180	1620	611	2020	1570	1570	572
9	319	280	300	296	297	1390	1620	610	2010	1590	1570	572
10	317	279	301	295	294	1560	1620	611	1870	1570	1570	571
11	315	279	296	297	295	1580	1610	609	1690	1550	1570	575
12	322	280	293	293	297	1570	1510	608	1610	1530	1560	577
13	322	277	294	294	297	1570	1520	608	1610	1530	1560	574
14	316	276	293	294	298	1570	1500	605	1550	1570	e1600	571
15	322	275	300	295	300	1590	1510	606	1390	1580	e1600	571
16	325	277	301	294	301	1600	1510	606	1310	1560	e1600	453
17	322	276	298	294	299	1620	1510	612	1310	1570	e1600	298
18	314	280	299	295	300	1610	1510	606	1310	1590	1560	292
19	312	283	299	293	300	1610	1510	609	1310	1570	1560	292
20	311	282	299	293	300	1610	1510	606	1310	1550	1560	291
21	308	282	299	292	299	1600	1500	616	1580	1510	1380	290
22	303	281	299	295	300	1610	1510	604	1590	1470	1190	294
23	294	279	299	295	295	1620	1510	613	1590	1480	987	298
24	292	278	299	294	291	1620	1520	603	1590	1560	768	299
25	291	277	292	294	289	1620	1520	805	1600	1590	578	298
26	291	275	290	292	291	1620	1500	1200	1600	1580	578	296
27	293	276	296	293	291	1620	1500	1590	1600	1560	578	294
28	292	279	298	294	290	1600	1420	1690	1570	1540	582	293
29	290	280	298	295	291	1620	1420	1690	1550	1540	581	293
30	284	276	300	296	---	1620	1420	1830	1510	1540	582	295
31	286	---	298	297	---	1610	---	2010	---	1510	578	---
TOTAL	9627	8434	9073	9138	8565	42427	46170	26039	50250	48250	39752	13175
MEAN	311	281	293	295	295	1369	1539	840	1675	1556	1282	439
MAX	329	293	301	299	306	1620	1620	2010	2130	1610	1600	577
MIN	284	275	272	292	289	441	1420	603	1310	1470	578	290
AC-FT	19100	16730	18000	18130	16990	84150	91580	51650	99670	95700	78850	26130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2000, BY WATER YEAR (WY)

MEAN	391	407	521	553	609	697	1121	2127	2368	1521	1049	613
MAX	1183	1504	1556	1531	3002	2996	3795	4820	5171	2546	1862	1741
(WY)	1953	1984	1984	1984	1997	1997	1946	1943	1983	1950	1948	1952
MIN	1.46	1.32	1.26	1.30	1.57	3.19	5.84	3.37	572	628	62.6	41.7
(WY)	1949	1949	1950	1949	1950	1950	1962	1962	1955	1944	1950	1949

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1943 - 2000	
ANNUAL TOTAL	422519		310900			
ANNUAL MEAN	1158		849		993	
HIGHEST ANNUAL MEAN					1735	1997
LOWEST ANNUAL MEAN					411	1992
HIGHEST DAILY MEAN	4020	Jun 19	2130	Jun 6	9770	May 25 1956
LOWEST DAILY MEAN	272	Dec 2	272	Dec 2	.70	Sep 21 1950
ANNUAL SEVEN-DAY MINIMUM	277	Nov 26	277	Nov 26	.76	Sep 18 1950
ANNUAL RUNOFF (AC-FT)	838100		616700		719700	
10 PERCENT EXCEEDS	2660		1610		2300	
50 PERCENT EXCEEDS	976		578		606	
90 PERCENT EXCEEDS	288		288		172	

e Estimated

BOISE RIVER BASIN

13200000 MORES CREEK ABOVE ROBIE CREEK, NEAR ARROWROCK DAM, ID

LOCATION.--Lat 43°38'53", long 115°59'20", in SE¼SW¼ sec.28, T.4 N., R.4 E., Boise County, Hydrologic Unit 17050112, on left bank, 1.7 mi upstream from Robie Creek, 5.0 mi northwest of Arrowrock Dam, and at mile 5.8.

DRAINAGE AREA.--399 mi^2.

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1958, published as "Moore Creek above Robie Creek, near Arrowrock", and October 1958 to September 1962, published as "near Arrowrock".

GAGE.--Water-stage recorder. Elevation of gage is 3,120 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Small diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,440 ft^3/s Dec. 23, 1955, gage height, 9.55 ft; minimum, 3.5 ft^3/s Aug. 29, 30, 1994, gage height, 1.80 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 28	0345	829	4.61	Apr. 5	0430	1,130	5.15
				Apr. 13	2330	*1,280	*5.39

Minimum daily, 19 ft^3/s Aug. 15, 28-30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	70	118	126	136	378	609	561	317	91	30	26
2	51	69	115	133	129	373	688	576	299	85	28	39
3	51	69	95	e120	126	370	826	582	286	83	26	49
4	52	70	89	e130	117	388	893	585	278	83	27	46
5	51	72	84	e130	118	442	1060	592	272	80	28	44
6	51	71	119	e120	118	591	940	545	263	78	25	44
7	55	70	108	e140	118	630	800	523	253	78	24	39
8	56	69	99	e130	125	568	744	493	247	73	23	36
9	56	68	96	e130	131	514	890	471	246	69	24	34
10	56	69	100	e130	141	449	929	469	231	68	23	33
11	55	69	106	e140	168	422	893	443	217	65	22	35
12	54	68	99	e130	204	398	892	418	241	61	22	35
13	54	67	111	e120	208	381	1050	397	303	58	21	33
14	54	69	98	e130	237	410	1160	384	234	55	21	31
15	54	67	99	e130	310	443	994	380	208	53	19	29
16	55	68	101	e120	267	443	875	383	194	52	20	29
17	56	73	120	e120	237	417	795	386	183	50	21	28
18	59	79	117	e120	203	397	789	380	173	53	20	28
19	60	74	107	e120	182	588	837	386	162	53	20	28
20	60	83	100	128	193	551	827	390	154	48	20	29
21	61	85	94	125	215	506	929	393	145	45	20	30
22	60	69	e90	120	225	509	923	405	138	42	21	31
23	61	61	e85	116	360	612	858	417	131	39	21	34
24	60	81	e90	118	389	644	743	415	125	38	21	35
25	60	143	e90	122	334	608	676	413	119	36	20	36
26	60	358	e90	124	319	631	635	400	113	35	20	36
27	60	245	e95	98	346	724	600	384	108	36	20	36
28	87	151	e100	85	411	810	654	376	102	34	19	36
29	100	124	109	88	398	732	619	363	98	32	19	35
30	79	115	113	97	---	637	576	343	93	31	19	35
31	73	---	117	134	---	601	---	332	---	30	20	---
TOTAL	1852	2846	3154	3774	6465	16167	24704	13585	5933	1734	684	1039
MEAN	59.7	94.9	102	122	223	522	823	438	198	55.9	22.1	34.6
MAX	100	358	120	140	411	810	1160	592	317	91	30	49
MIN	51	61	84	85	117	370	576	332	93	30	19	26
AC-FT	3670	5650	6260	7490	12820	32070	49000	26950	11770	3440	1360	2060
CFSM	.15	.24	.25	.31	.56	1.31	2.06	1.10	.50	.14	.06	.09
IN.	.17	.27	.29	.35	.60	1.51	2.30	1.27	.55	.16	.06	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

MEAN	61.1	90.4	135	162	241	494	917	783	422	112	42.2	42.0
MAX	108	169	676	833	912	1481	2183	1486	845	251	92.0	86.6
(WY)	1952	1971	1965	1997	1986	1986	1952	1983	1975	1983	1983	1986
MIN	25.5	37.9	42.4	45.1	57.8	88.8	127	125	49.9	18.7	5.66	8.83
(WY)	1995	1995	1995	1977	1993	1977	1977	1977	1992	1994	1994	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000	
ANNUAL TOTAL	126683		81937			
ANNUAL MEAN	347		224		291	
HIGHEST ANNUAL MEAN					560	1965
LOWEST ANNUAL MEAN					66.2	1977
HIGHEST DAILY MEAN	1960	Apr 20	1160	Apr 14	4520	Dec 23 1964
LOWEST DAILY MEAN	39	Sep 18	19	Aug 15	4.1	Aug 30 1994
ANNUAL SEVEN-DAY MINIMUM	39	Sep 18	20	Aug 25	4.4	Aug 16 1994
ANNUAL RUNOFF (AC-FT)	251300		162500		211100	
ANNUAL RUNOFF (CFSM)	.87		.56		.73	
ANNUAL RUNOFF (INCHES)	11.81		7.64		9.92	
10 PERCENT EXCEEDS	1030		608		842	
50 PERCENT EXCEEDS	136		116		110	
90 PERCENT EXCEEDS	49		29		35	

e Estimated

BOISE RIVER BASIN

13201500 LUCKY PEAK LAKE NEAR BOISE, ID

LOCATION.--Lat 43°31'31", long 116°03'15", in SW¼NW¼ sec.12, T.2 N., R.3 E., Ada County, Hydrologic Unit 17050112, at outlet control tower at Lucky Peak Dam on Boise River, 2 mi upstream from diversion dam for New York Canal, 7 mi downstream from Mores Creek, 9 mi southeast of Boise, and at mile 63.8.

DRAINAGE AREA.--2,680 mi^2, approximately.

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level, (levels by U.S. Corps of Engineers). Prior to May 13, 1955, nonrecording gage at same site and datum.

REMARKS.--Station equipment includes satellite telemetry. Reservoir is formed by earthfill dam. Storage began Oct. 16, 1954. Dam completed in February 1955. Capacity, 307,040 acre-ft between elevations 2,827.0 ft, sill of outlet gates, and 3,060.0 ft, spillway crest. Minimum proposed operating level, 2,905.0 ft, 28,770 acre-ft, but all storage can be released. Water is stored for flood control, irrigation of lands in Boise Valley, and hydro-electric power.

COOPERATION.--Gage-height record and capacity table provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 305,130 acre-ft June 25, 1955, elevation, 3,059.32 ft; minimum since near-full capacity was attained on June 25, 1955, 28,630 acre-ft Dec. 21, 1961, elevation, 2,904.83 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 294,000 acre-ft June 15, elevation, 3,055.32 ft; minimum contents, 78,800 acre-ft Oct. 15, elevation, 2,950.71 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

2,940.0	64,600	3,000.0	162,800
2,960.0	92,400	3,020.0	205,600
2,980.0	125,100	3,040.0	253,600
		3,060.0	307,000

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117200	90100	96300	103500	104300	130200	214200	260100	292700	293400	292300	255400
2	111400	90200	96600	103800	104100	133700	216900	259500	292700	292900	291700	251500
3	105700	90100	96900	104100	104000	137300	220000	259100	292700	292700	291700	247400
4	99800	90300	97200	104100	103800	140900	223000	259100	292600	292900	291800	243400
5	95400	90500	97300	104300	103700	144500	226600	259500	292600	292900	291600	238500
6	91500	90600	97700	104400	103500	147800	230200	260100	292600	293100	291300	233400
7	89100	90700	98000	104400	103400	153500	233100	260600	292300	293200	291300	228400
8	88100	90900	98300	104600	103200	159000	235500	262200	292300	293200	292000	223500
9	86900	91000	98600	104700	103100	163900	238500	264200	292600	293300	292500	218900
10	85400	91100	98900	105000	103000	168500	240900	266600	292900	293200	292700	214100
11	83700	91200	99200	105200	103000	172900	242600	267500	292700	293300	292800	209700
12	82400	91300	99600	105400	103100	177200	244200	267900	292500	293200	292600	205100
13	80900	91400	100000	105600	103300	178400	246700	268000	293400	293000	292100	200500
14	79000	91500	100200	105700	103500	176900	250200	268200	293900	292800	291900	194700
15	79200	91600	100400	106000	103900	177800	253700	268400	293900	292400	291600	188200
16	79800	91700	100700	106200	104100	180300	257000	268700	293700	292000	291700	181800
17	80400	91900	100900	106400	104300	182700	259600	269200	293200	291900	291700	175500
18	81000	92000	101200	106600	104400	185100	260400	269600	292200	291900	291000	169100
19	81500	92200	101400	106600	104400	187900	260500	269800	291900	291800	289900	162800
20	82100	92400	101600	106400	104400	190600	260800	270000	291600	292000	288500	156500
21	82700	92500	101800	106300	104500	193400	261100	270300	292000	292300	286600	150700
22	83300	92700	102000	106100	106200	195900	261500	270500	292800	292400	285400	145700
23	83800	92800	102100	105900	109200	198500	261900	271900	293100	292500	285100	e140600
24	84500	93100	102200	105900	112000	199900	262000	274100	293100	292600	283900	e135600
25	85000	93500	102300	105700	114800	200500	261800	277000	293100	293000	281000	130500
26	85700	94200	102400	105500	117500	201200	261500	280100	293100	293200	279000	125600
27	86500	94900	102600	105300	120300	202000	261200	283200	293000	293200	274800	120700
28	87200	95300	102800	105100	123300	203900	260900	286400	293100	293200	270200	116000
29	88100	95600	102900	104800	126600	206500	260600	289400	293400	293600	266800	111200
30	88800	95900	103100	104600	---	209100	260200	292000	293700	293700	263600	106400
31	89700	---	103300	104400	---	211600	---	292700	---	293100	259700	---
MAX	117200	95900	103300	106600	126600	211600	262000	292700	293900	293700	292800	255400
MIN	79000	90100	96300	103500	103000	130200	214200	259100	291600	291800	259700	106400
†	2958.21	2962.33	2967.02	2967.71	2980.85	3022.66	3042.61	3054.85	3055.20	3054.99	3042.41	2968.96
‡	-33300	6200	7400	1100	22200	85000	48600	32500	1000	-600	-33400	-153300

CAL YR 1999 ‡ -10600
WTR YR 2000 ‡ -16600

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.
e Estimated

BOISE RIVER BASIN

13202000 BOISE RIVER NEAR BOISE, ID

LOCATION.--Lat 43°31'40", long 116°03'31", in NE¼ sec.11, T.2 N., R.3 E., Ada County, Hydrologic Unit 17050112, at gate-control house at outlet works of Lucky Peak Lake, 1.8 mi upstream from diversion dam for New York Canal, 7.5 mi downstream from mouth of Mores Creek, 9 mi southeast of Boise, and at mile 63.6.

DRAINAGE AREA.--2,680 mi^2, approximately. Mean elevation, 5,910 ft.

PERIOD OF RECORD.--January 1895 to September 1916 (no winter records 1904-05, 1907), November 1950 to September 1954 (discharge measurements only), October 1954 to current year. Published as "near Highland" 1905-15 and as "below Moore Creek, near Arrowrock" 1916.

REVISED RECORDS.--WSP 1347: 1895-1901, 1904.

GAGE.--None. See WDR ID-87-1 for history of changes prior to October 1, 1987.

REMARKS.--Flow regulated by Lucky Peak Lake, Arrowrock Reservoir, and Anderson Ranch Reservoir. Diversions above station for irrigation of about 2,300 acres in the basin, and about 5,000 acres outside the basin near Mountain Home (1966 determination).

COOPERATION.--Discharge record provided by Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed (1895-1916), prior to regulation, 35,500 ft^3/s June 14, 1896; minimum observed, 432 ft^3/s Nov. 14, 1915. Maximum discharge since construction of Lucky Peak Dam in 1955, 13,200 ft^3/s June 13-15, 1983; no flow on several days in 1954, 1955, 1957-59, 1961, 1969, 1974, 1978, 1980, 1982, 1984-86, 1989 when gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,510 ft^3/s Apr. 29; minimum daily, 145 ft^3/s Nov. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3080	230	245	244	244	244	2990	5370	4500	4230	4020	3820
2	3120	220	244	243	242	243	3000	5170	4500	4230	4020	3800
3	3080	145	245	246	243	243	3000	4970	4500	4210	4030	3800
4	3090	254	244	247	243	247	3000	4770	4500	4200	4020	3800
5	3090	251	245	247	243	250	2990	4570	4500	4170	4030	3710
6	3090	244	243	245	242	486	3250	4500	4700	4160	4030	3640
7	2810	243	243	246	243	803	3670	4500	4930	4150	4030	3610
8	2620	244	246	246	257	1100	3800	4430	4840	4150	4020	3500
9	2590	241	244	248	243	1400	3800	4340	4600	4150	4020	3450
10	2590	244	244	248	242	1500	4060	4230	4510	4150	4030	3450
11	2520	243	245	248	243	1500	4390	4200	4510	4130	4020	3410
12	2140	243	245	246	244	1500	4700	4200	4370	4130	4020	3380
13	2140	243	244	244	246	1840	4930	4200	4170	4120	4020	3370
14	2140	243	245	246	244	1830	4990	4210	4030	4120	4020	3360
15	674	244	244	244	244	1500	5010	4140	4130	4130	4150	3350
16	367	243	244	244	243	1500	5000	4070	4200	4120	4230	3340
17	366	242	244	245	244	1500	5200	4020	4200	4120	4220	3350
18	366	243	244	245	242	1500	5430	4000	4200	4120	4230	3350
19	367	244	244	246	243	1500	5500	4000	4200	4100	4220	3330
20	367	243	246	246	245	1500	5500	4000	4240	4100	4220	3330
21	367	244	244	244	244	1700	5480	4000	4250	4060	4210	3320
22	368	244	245	243	243	1930	5500	4000	4260	4050	4230	3320
23	367	244	243	244	243	2000	5500	4000	4250	4050	4220	3330
24	368	245	243	245	245	2670	5490	4000	4250	4050	4220	3320
25	353	246	245	244	244	3000	5500	4000	4250	4030	4120	3300
26	337	244	244	244	243	2990	5500	4010	4250	4030	4070	3300
27	337	243	245	245	244	3000	5500	4000	4250	4010	4070	3250
28	338	243	244	244	244	3000	5500	4000	4240	4020	4040	3220
29	338	243	244	245	245	3000	5510	4010	4250	4030	3990	3220
30	338	244	244	243	---	3000	5500	4000	4250	4020	3950	3230
31	270	---	244	244	---	3010	---	4340	---	4020	3890	---
TOTAL	44388	7187	7573	7599	7075	51486	139190	132250	130830	127360	126610	102960
MEAN	1432	240	244	245	244	1661	4640	4266	4361	4108	4084	3432
MAX	3120	254	246	248	257	3010	5510	5370	4930	4230	4230	3820
MIN	270	145	243	243	242	243	2990	4000	4030	4010	3890	3220
AC-FT	88040	14260	15020	15070	14030	102100	276100	262300	259500	252600	251100	204200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 1916, BY WATER YEAR (WY) (UNREGULATED)

MEAN	969	1151	1111	1238	1299	2951	6377	8150	7913	2992	1185	970
MAX	1349	3343	2309	2590	1979	9144	11220	13360	24400	6218	2655	2094
(WY)	1900	1910	1899	1899	1909	1910	1907	1904	1896	1896	1916	1916
MIN	683	509	539	660	925	1388	2823	2023	3186	1272	643	578
(WY)	1907	1916	1916	1898	1913	1915	1915	1915	1915	1905	1905	1905

SUMMARY STATISTICS	[a] WATER YEARS 1895 - 1916	
ANNUAL MEAN	3038	
HIGHEST ANNUAL MEAN	4510	1896
LOWEST ANNUAL MEAN	1627	1915
HIGHEST DAILY MEAN	35500	Jun 14 1896
LOWEST DAILY MEAN	432	Nov 14 1915
ANNUAL SEVEN-DAY MINIMUM	482	Nov 10 1915
ANNUAL RUNOFF (AC-FT)	2201000	
10 PERCENT EXCEEDS	8150	
50 PERCENT EXCEEDS	1340	
90 PERCENT EXCEEDS	812	

BOISE RIVER BASIN

13202000 BOISE RIVER NEAR BOISE, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2000, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	961	206	349	686	1540	2409	4340	6245	5612	4631	4036	2995
MAX	2246	1448	1756	6008	7009	7565	8940	10830	10540	6034	4752	4469
(WY)	1985	1987	1996	1997	1997	1997	1997	1965	1983	1982	1963	1984
MIN	63.0	.000	.000	.000	.000	90.0	622	2797	3147	2795	1056	403
(WY)	1962	1955	1955	1955	1961	1977	1955	1991	1990	1992	1992	1992

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		[b] WATER YEARS 1955 - 2000	
ANNUAL TOTAL	1245436		884508			
ANNUAL MEAN	3412		2417		2839	
HIGHEST ANNUAL MEAN					4914	1997
LOWEST ANNUAL MEAN					1137	1992
HIGHEST DAILY MEAN	7610	Apr 10	5510	Apr 29	13200	Jun 13 1983
LOWEST DAILY MEAN	124	Jan 22	145	Nov 3	.00	Oct 17 1954
ANNUAL SEVEN-DAY MINIMUM	146	Jan 22	227	Nov 1	.00	Oct 17 1954
ANNUAL RUNOFF (AC-FT)	2470000		1754000		2057000	
10 PERCENT EXCEEDS	6770		4500		6500	
50 PERCENT EXCEEDS	4190		3080		2730	
90 PERCENT EXCEEDS	170		243		96	

a Unregulated, prior to construction of Arrowrock Dam.
b Regulated, unadjusted (since construction of Lucky Peak Dam).

BOISE RIVER BASIN

13203510 BOISE RIVER BELOW DIVERSION DAM NEAR BOISE, ID

LOCATION.--Lat 43°32'23", long 116°05'37", in SE¼SE¼NE¼ sec.4, T.2 N., R.3 E., Ada County, Hydrologic Unit 17050114, on right bank, 700 ft downstream from Diversion Dam, and 7.0 mi southeast of Boise.

DRAINAGE AREA.--2,680 mi^2, approximately. Mean elevation, 5,910 ft.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1990 to September 1991, October 1992 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April to September 1997, February to September 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 18.4 °C Sep. 16, 19-20, 1999.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
OCT									
18...	1335	360	74	7.7	18.0	14.0	9.8	106	K29
DEC									
07...	1315	244	85	5.1	6.0	7.2	14.0	130	K2
FEB									
08...	1210	187	83	7.7	6.0	3.1	14.2	106	<1
APR									
18...	1210	4100	82	7.9	15.0	6.2	12.6	114	<1
MAY									
15...	1210	1930	70	7.4	20.0	8.8	12.4	106	<1
JUN									
13...	1115	1840	60	7.4	20.0	10.9	10.7	97	K1
AUG									
14...	1110	1780	68	7.3	26.0	15.6	10.0	101	K7

DATE	E. COLI ONPG-MUG, AUTO AN (COLO-NIES/ 100 ML (50468)	COLI-FORM, TOTAL, ONPG, AUTO AN (MPN/ 100 ML (90908)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT									
18...	2	180	.079	<.020	.14	E.044	.015	12	12
DEC									
07...	<2	20	.103	<.020	.11	<.050	<.010	4	2.6
FEB									
08...	<2	6	.064	<.020	.14	E.031	.010	2	1.0
APR									
18...	<1	28	.137	<.020	.12	<.050	<.010	3	33
MAY									
15...	<1	9	.106	<.020	.12	<.050	<.010	2	10
JUN									
13...	1	240	.089	<.020	E.10	<.050	<.010	4	20
AUG									
14...	8	720	.063	<.020	.26	<.050	<.010	1	4.8

E Positive detection but below stated detection limit.
K Results based on counts outside ideal colony range.

BOISE RIVER BASIN

13205995 DIVERSIONS FROM BOISE RIVER BETWEEN GAGING STATIONS NEAR BOISE AND AT GLENWOOD BRIDGE, ID

Between "near Boise" and "at Glenwood Bridge" gaging stations (published as "between Dowling Ranch and at Boise gaging stations" prior to 1955 water year, and as "between near Boise and at Boise gaging stations", 1955-82), ten canals and several small farm laterals divert water from Boise River for irrigation.

Records of total diversion during April to September for each canal for years 1919-46, combined daily diversion covering period April to September for years 1947-67, combined daily diversions for water years 1968-75, and daily flow of New York Canal, February 1939 to October 1948, are published in reports of Geological Survey. Records of daily diversion for each canal from 1916-2000 are on file in office of the Idaho Department of Water Resources. Prior to October 1967, there was no record of October to March diversions, except for New York Canal.

Records show summation of discharge for the recorded diversions. Staff gages on canals are read daily or several times weekly, and discharge measurements are made weekly. Records provided by watermaster for Boise River.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2480	---	---	---	---	e.00	905	2940	3200	3200	3050	2900
2	2470	---	---	---	---	e.00	904	2990	3200	3190	3050	2890
3	2470	---	---	---	---	e.00	1040	2980	3210	3190	3050	2890
4	2470	---	---	---	---	e.00	1050	3000	3220	3180	3040	2890
5	2470	---	---	---	---	e.00	1050	3000	3220	3180	3050	2830
6	2470	---	---	---	---	e.00	1210	3010	3220	3180	3050	2800
7	2220	---	---	---	---	e.00	1320	3020	3220	3180	3060	2790
8	1990	---	---	---	---	e.00	1330	3020	3220	3170	3050	2710
9	1990	---	---	---	---	e.00	1340	3030	3210	3170	3060	2640
10	1990	---	---	---	---	e.00	1470	3060	3200	3110	3060	2620
11	1870	---	---	---	---	e.00	1680	3080	3200	3080	3060	2620
12	1760	---	---	---	---	e.00	1740	3100	3220	3080	3020	2610
13	1710	---	---	---	---	426	1740	3080	3220	3080	3050	2610
14	1680	---	---	---	---	449	1770	3060	3230	3080	3050	2600
15	745	---	---	---	---	e.00	1800	3060	3220	3080	3000	2590
16	1.5	---	---	---	---	e.00	1830	3060	3210	3090	2990	2590
17	1.5	---	---	---	---	e.00	1860	3050	3210	3090	2980	2590
18	1.5	---	---	---	---	e.00	1920	3080	3220	3090	2980	2590
19	1.5	---	---	---	---	e.00	2070	3100	3220	3070	2970	2590
20	1.5	---	---	---	---	e.00	2250	3100	3220	3050	2970	2580
21	1.5	---	---	---	---	e.00	2420	3090	3230	3060	2970	2580
22	1.5	---	---	---	---	e.00	2520	3100	3220	3070	2970	2570
23	1.5	---	---	---	---	e.00	2570	3100	3220	3060	2950	2570
24	1.5	---	---	---	---	718	2700	3110	3220	3050	2940	2560
25	1.5	---	---	---	---	857	2770	3120	3220	3050	2930	2590
26	1.5	---	---	---	---	856	2790	3120	3220	3050	2920	2600
27	.60	---	---	---	---	853	2760	3130	3210	3050	2920	2570
28	.60	---	---	---	---	888	2790	3140	3210	3050	2920	2560
29	.60	---	---	---	---	907	2830	3140	3210	3050	2910	2550
30	.60	---	---	---	---	906	2840	3150	3200	3040	2910	2550
31	.60	---	---	---	---	906	---	3180	---	3040	2900	---
TOTAL	30804.50	---	---	---	---	7766.00	57269	95200	96450	96110	92830	79630
MEAN	994	---	---	---	---	251	1909	3071	3215	3100	2995	2654
MAX	2480	---	---	---	---	907	2840	3180	3230	3200	3060	2900
MIN	.60	---	---	---	---	.00	904	2940	3200	3040	2900	2550
AC-FT	61100	---	---	---	---	15400	113600	188800	191300	190600	184100	157900

e Estimated

BOISE RIVER BASIN

13206000 BOISE RIVER AT GLENWOOD BRIDGE NEAR BOISE, ID

LOCATION.--Lat 43°39'37", long 116°16'41", in SW¼NE¼NE¼ sec.25, T.4 N., R.1 E., Ada County, Hydrologic Unit 17050114, on left bank 175 ft upstream from Glenwood Bridge, 4.4 mi northwest of Boise, and at mile 47.5.

DRAINAGE AREA.--2,800 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1938 to September 1940 (published as "at Strawberry Glen Bridge near Boise"), March 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,600.00 ft above sea level. April 1938 to September 1940, 0.30 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Anderson Ranch Reservoir, Arrowrock Reservoir and Lucky Peak Lake (see sta 13201500). The New York, Ridenbaugh and eight small canals (see sta 13205995) divert between station "near Boise" (see sta 13202000) and this station. Diversion above station for about 5,000 acres are outside the basin near Mountain Home.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, prior to completion of Lucky Peak Dam in 1955, 13,000 ft^3/s May 2, 1938; minimum observed, 19 ft^3/s Dec. 3, 1939. Maximum discharge since regulation, 9,840 ft^3/s June 13, 1983, gage height, 11.54 ft; minimum, 42 ft^3/s Oct. 26, 1983.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 20, 1943 reached a discharge of about 21,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,330 ft^3/s Apr. 19; minimum daily, 212 ft^3/s Feb. 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	690	262	265	258	257	323	1870	2240	1240	1000	975	914
2	677	254	295	262	257	308	1870	1980	1240	994	973	884
3	685	252	282	261	256	299	1780	1800	1230	995	981	871
4	679	258	277	287	254	295	1720	1600	1240	994	982	874
5	690	260	277	268	256	305	1650	1420	1230	995	986	859
6	689	250	272	263	254	359	1680	1310	1350	970	993	798
7	716	247	267	261	258	493	1930	1340	1570	959	998	790
8	683	251	258	270	232	928	2110	1290	1570	961	994	751
9	638	250	264	270	212	1280	2120	1200	1380	960	977	724
10	636	264	260	270	217	1390	2150	1060	1250	967	975	750
11	645	251	263	299	286	1400	2280	1020	1260	959	974	738
12	508	253	263	276	345	1390	2520	1020	1190	954	991	718
13	464	251	283	269	282	1380	2840	1030	996	951	997	709
14	507	250	263	268	317	1390	2920	1050	838	946	996	714
15	717	249	267	274	284	1390	2890	1030	859	945	1110	695
16	443	250	276	269	279	1410	2880	967	983	947	1200	684
17	407	272	268	271	277	1400	3020	930	992	956	1200	689
18	397	255	263	273	274	1400	3270	877	993	972	1190	689
19	395	253	260	295	268	1420	3330	846	994	996	1200	690
20	393	256	262	237	268	1400	3100	836	1010	977	1200	698
21	393	261	261	265	269	1520	2950	841	1030	971	1210	706
22	394	256	260	262	265	1730	2860	832	1030	958	1210	714
23	394	252	257	263	365	1830	2860	834	1030	962	1220	713
24	392	257	259	289	318	1860	2800	838	1030	976	1220	716
25	399	311	255	270	295	1910	2710	829	1030	977	1160	707
26	397	265	256	265	297	1910	2700	832	1030	972	1090	692
27	389	259	257	264	326	1910	2680	833	1030	970	1090	687
28	401	260	257	262	332	1890	2590	830	1030	976	1080	663
29	394	262	259	261	316	1860	2440	829	1020	971	1040	677
30	388	266	259	260	---	1860	2410	831	1020	972	998	680
31	349	---	259	260	---	1870	---	1010	---	976	960	---
TOTAL	15949	7737	8224	8322	8116	40110	74930	34185	33695	30079	33170	22194
MEAN	514	258	265	268	280	1294	2498	1103	1123	970	1070	740
MAX	717	311	295	299	365	1910	3330	2240	1570	1000	1220	914
MIN	349	247	255	237	212	295	1650	829	838	945	960	663
AC-FT	31630	15350	16310	16510	16100	79560	148600	67810	66830	59660	65790	44020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2000, BY WATER YEAR (WY)

MEAN	459	357	531	1005	1293	2159	2874	3006	2340	1278	911	660
MAX	1559	1516	1685	5903	7059	7037	6850	6780	6749	2689	1443	1893
(WY)	1985	1985	1984	1997	1997	1997	1997	1984	1983	1982	1997	1984
MIN	150	106	106	107	108	111	579	655	620	554	500	266
(WY)	1993	1993	1993	1993	1993	1992	1991	1990	1987	1992	1992	1992

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1982 - 2000	
ANNUAL TOTAL	673818		316711			
ANNUAL MEAN	1846		865		1365	
HIGHEST ANNUAL MEAN					3381	1997
LOWEST ANNUAL MEAN					358	1992
HIGHEST DAILY MEAN	6770	Mar 25	3330	Apr 19	9560	Jun 13 1983
LOWEST DAILY MEAN	156	Jan 30	212	Feb 9	86	Nov 2 1992
ANNUAL SEVEN-DAY MINIMUM	170	Jan 30	240	Feb 4	99	Nov 1 1992
ANNUAL RUNOFF (AC-FT)	1337000		628200		988800	
10 PERCENT EXCEEDS	5990		1840		4920	
50 PERCENT EXCEEDS	1270		794		710	
90 PERCENT EXCEEDS	192		258		168	

BOISE RIVER BASIN

13206000 BOISE RIVER AT GLENWOOD BRIDGE NEAR BOISE, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971-73, 1988 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July to September 1997, March to June 1998, October 1998 to September 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 20.2 °C Sept. 9, 13, 1997; minimum, 0.0 °C Dec. 21-22, 1998.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI ONPG-MUG, AUTO AN (COLO-NIES/ 100 ML (50468)	COLI-FORM, TOTAL, ONPG, AUTO AN (MPN/ 100 ML (90908)
OCT												
19...	0934	699	105	7.4	6.0	11.0	--	10.2	102	64	65	3900
DEC												
07...	1010	246	128	7.5	1.5	5.7	--	13.0	116	57	56	580
FEB												
08...	1515	214	138	8.8	12.0	6.2	--	15.7	127	K15	6	770
APR												
18...	1620	3310	86	8.1	17.2	7.6	2.3	12.5	117	41	10	2000
MAY												
16...	0930	1080	85	7.6	18.0	9.2	1.5	10.7	104	34	31	610
JUN												
13...	1540	1030	79	8.9	23.0	14.9	.6	11.8	128	K22	12	2400
JUL												
17...	1130	1060	82	7.6	27.0	14.8	1.4	10.6	115	93	--	--
AUG												
14...	1722	1110	88	8.6	34.0	19.1	3.0	10.1	109	110	35	>4800
SEP												
11...	1325	791	90	8.4	23.5	17.8	.5	10.2	118	50	--	--

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
11...	31	10.5	1.15	6.8	32	.7	44	0

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
11...	37	3.6	2.5	.4	12.5	62	.08	131

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT							
19...	.323	<.020	.20	.115	.084	4	7.5
DEC							
07...	.530	<.020	.19	.136	.111	3	2.0
FEB							
08...	.673	<.020	.33	.261	.215	3	1.7
APR							
18...	.180	<.020	.17	E.038	.013	12	107
MAY							
16...	.186	<.020	.22	E.049	.028	4	12
JUN							
13...	.278	<.020	.25	.094	.069	5	14
JUL							
17...	.271	.007	.20	.117	.086	4	11
AUG							
14...	.328	.030	.22	.110	.097	2	6.0
SEP							
11...	.252	.010	.18	.096	.076	2	4.3

K Results based on counts outside ideal colony range.

BOISE RIVER BASIN

13206305 BOISE RIVER SOUTH CHANNEL AT EAGLE, ID

LOCATION.--Lat 43°40'31", long 116°21'13", in NE¼SE¼NE¼ sec.20, T.4 N., R.1 W., Ada County, Hydrologic Unit 17050114, on right bank at State Highway 55, 10 ft upstream from bridge, 1.5 mi south of Eagle, and at mile 42.8.

PERIOD OF RECORD.--November 1999 to September 2000.

GAGE.--Water-stage recorder. Datum of gage is 2,560 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period November 1999 to September 2000, 1,470 ft^3/s Apr. 19, gage height, 4.73 ft; minimum daily, 130 ft^3/s Nov. 7, 19, Dec. 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	e150	145	132	157	161	835	835	776	724	707	654
2	---	e140	153	134	152	161	835	766	782	715	705	656
3	---	e140	146	139	146	160	792	809	777	712	710	646
4	---	e150	143	145	147	163	757	797	780	712	695	649
5	---	e150	143	143	148	172	726	698	780	716	689	649
6	---	e140	145	145	148	190	753	641	856	705	686	608
7	---	e130	160	148	149	235	851	650	1010	696	699	597
8	---	e140	151	150	142	376	965	622	997	702	698	563
9	---	e140	140	140	135	510	999	575	868	702	699	540
10	---	e150	142	143	138	577	915	531	784	708	704	564
11	---	e140	142	159	149	597	926	597	784	707	707	558
12	---	e140	141	143	171	602	990	602	748	704	723	543
13	---	e140	150	140	152	594	1110	623	660	696	732	528
14	---	e140	149	139	168	603	1130	639	621	694	726	519
15	---	e140	145	143	167	601	1130	624	667	689	792	512
16	---	e140	150	146	159	624	1120	579	721	687	846	507
17	---	e150	149	152	150	628	1160	561	710	694	812	513
18	---	e140	136	149	151	639	1260	529	704	719	816	509
19	---	e130	133	151	150	651	1270	530	701	738	820	491
20	---	e140	139	138	147	637	1160	531	723	713	811	481
21	---	e140	143	144	148	682	1090	533	735	706	826	533
22	---	e140	139	144	155	738	1060	525	735	690	829	567
23	---	e140	134	143	186	812	1060	523	737	689	828	546
24	---	146	143	151	172	838	1040	522	739	696	821	545
25	---	161	140	146	158	867	1020	518	738	697	798	547
26	---	148	137	145	158	874	1010	518	740	697	749	539
27	---	145	130	145	168	867	984	510	739	692	742	543
28	---	145	141	146	170	844	931	508	741	698	735	528
29	---	145	137	148	167	811	887	508	731	702	711	535
30	---	143	137	147	---	825	882	504	735	709	688	546
31	---	---	133	152	---	829	---	606	---	711	663	---
TOTAL	---	4283	4416	4490	4508	17868	29648	18514	22819	21820	23167	16716
MEAN	---	143	142	145	155	576	988	597	761	704	747	557
MAX	---	161	160	159	186	874	1270	835	1010	738	846	656
MIN	---	130	130	132	135	160	726	504	621	687	663	481
AC-FT	---	8500	8760	8910	8940	35440	58810	36720	45260	43280	45950	33160

e Estimated

BOISE RIVER BASIN

13210050 BOISE RIVER NEAR MIDDLETON, ID

LOCATION.--Lat 43°41'06", long 116°34'22", in SE¼SE¼SE¼NE¼ sec.16, T.4 N., R.2 W., Canyon County, Hydrologic Unit 17050114, on right bank, 2.9 mi southeast of Middleton, and at mile 29.1.

DRAINAGE AREA.--3,050 mi^2, approximately.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1977, November 1991 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April to September 1997, October 1998 to September 1999 (discontinued).

REMARKS.--Due to flow conditions, April miscellaneous samples collected upstream at Star Bridge near Star, Id. (sta 13210007, published in miscellaneous water quality section).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 22.0 °C Aug. 29, 1999; minimum, 0.2 °C Dec. 21-24, 1998.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
OCT									
19...	1410	340	188	8.6	14.0	11.2	13.1	131	K23
DEC									
08...	1025	352	240	7.9	.0	5.2	12.8	110	190
FEB									
09...	1200	245	227	8.1	12.0	7.1	13.4	111	62
MAY									
17...	1100	474	127	8.2	18.0	11.6	12.2	112	100
JUN									
14...	1115	340	126	8.5	24.0	10.9	12.2	123	K45
AUG									
15...	1250	398	130	8.8	29.5	19.4	13.3	144	K4000

DATE	E. COLI ONPG-MUG, AUTO AN (COLO-NIES/ 100 ML (50468)	COLI-FORM, TOTAL, ONPG, AUTO AN (MPN/ 100 ML (90908)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT									
19...	9	1200	1.56	<.020	.28	.366	.336	4	3.7
DEC									
08...	65	2400	2.67	<.020	.29	.410	.336	3	2.9
FEB									
09...	180	940	2.90	<.020	.39	.510	.455	6	4.0
MAY									
17...	53	2000	.632	<.020	.32	.137	.095	5	6.4
JUN									
14...	42	1000	.482	<.020	.33	.137	.092	8	7.3
AUG									
15...	>4800	>4800	.431	<.020	.38	.161	.117	8	8.6

K Results based on counts outside ideal colony range.

BOISE RIVER BASIN

13212996 DIVERSIONS FROM BOISE RIVER BETWEEN GAGING STATIONS AT GLENWOOD BRIDGE AND NEAR PARMA, ID

Between "at Glenwood Bridge" and "near Parma" gaging stations (published as "between at Boise and Notus gaging stations" prior to 1974, and "between at Boise and near Parma gaging stations", 1974-82), 23 canals and several small farm laterals divert water from Boise River for irrigation.

Records of daily diversions for each canal for 1916-2000 are on file in office of the Idaho Department of Water Resources. Prior to October 1967 there was no record of October to March diversions.

Records show summation of discharge for the recorded diversions. Staff gages on canals are read daily or several times weekly, and discharge measurements are made weekly. Records provided by watermaster for Boise River.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1160	---	---	---	---	---	.80	1430	1640	1700	1530	1380
2	1150	---	---	---	---	---	.80	1450	1640	1670	1530	1330
3	1140	---	---	---	---	---	1.0	1490	1640	1610	1520	1260
4	1140	---	---	---	---	---	1.0	1510	1660	1610	1520	1270
5	1140	---	---	---	---	---	1.0	1520	1660	1610	1520	1260
6	1130	---	---	---	---	---	1.0	1520	1670	1610	1520	1230
7	1130	---	---	---	---	---	1.0	1540	1680	1620	1510	1230
8	1120	---	---	---	---	---	1.0	1540	1690	1610	1510	1220
9	1110	---	---	---	---	---	1.0	1540	1680	1610	1510	1210
10	1110	---	---	---	---	---	1.0	1530	1670	1610	1510	1200
11	1100	---	---	---	---	---	118	1530	1670	1600	1510	1200
12	985	---	---	---	---	---	384	1520	1680	1590	1510	1190
13	817	---	---	---	---	---	469	1520	1670	1590	1510	1180
14	801	---	---	---	---	---	555	1520	1680	1590	1510	1180
15	785	---	---	---	---	---	640	1530	1690	1590	1510	1180
16	751	---	---	---	---	---	726	1540	1690	1590	1510	1180
17	735	---	---	---	---	---	812	1540	1710	1590	1510	1170
18	710	---	---	---	---	---	870	1540	1720	1590	1520	1170
19	689	---	---	---	---	---	1080	1560	1730	1580	1520	1150
20	654	---	---	---	---	---	1140	1580	1730	1580	1520	1170
21	618	---	---	---	---	---	1200	1600	1730	1580	1520	1160
22	581	---	---	---	---	---	1250	1600	1740	1570	1520	1150
23	544	---	---	---	---	---	1310	1590	1740	1570	1470	1140
24	508	---	---	---	---	---	1370	1590	1720	1560	1460	1130
25	471	---	---	---	---	---	1340	1590	1720	1560	1450	1120
26	253	---	---	---	---	---	1370	1590	1720	1560	1450	1110
27	110	---	---	---	---	---	1380	1580	1720	1550	1440	1100
28	108	---	---	---	---	---	1400	1580	1740	1540	1430	1100
29	107	---	---	---	---	---	1410	1570	1740	1540	1420	1080
30	106	---	---	---	---	---	1420	1590	1730	1540	1400	1080
31	.00	---	---	---	---	---	---	1610	---	1530	1390	---
TOTAL	22763.00	---	---	---	---	---	20253.60	47940	50900	49250	46260	35530
MEAN	734	---	---	---	---	---	675	1546	1697	1589	1492	1184
MAX	1160	---	---	---	---	---	1420	1610	1740	1700	1530	1380
MIN	.00	---	---	---	---	---	.80	1430	1640	1530	1390	1080
AC-FT	45150	---	---	---	---	---	40170	95090	101000	97690	91760	70470

BOISE RIVER BASIN

13213000 BOISE RIVER NEAR PARMA, ID

LOCATION.--Lat 43°46'54", long 116°58'17", in SE¼NE¼SE¼ sec.7, T.5 N., R.5 W., Canyon County, Hydrologic Unit 17050114, on left bank, at county road crossing, 1.2 mi west of Parma, and at mile 3.8.

DRAINAGE AREA.--3,970 mi^2, approximately.

WATER-QUALITY RECORDS

PERIOD OF RECORD--Chemical analyses July 1969 to December 1972, December 1973 to September 1981, October 1986 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: March to September 1973, November 1974 to March 1975, September 1975 to September 1976, October 1986 to September 1995, April to September 1997, October 1998 to September 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 28.5 °C June 27-28, 1973; minimum, 0.0 °C on many days during winter months.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
OCT									
20...	1125	1060	473	8.1	10.0	10.0	10.5	100	K180
DEC									
08...	1325	928	522	8.6	1.0	6.1	16.2	132	420
FEB									
09...	1520	855	477	8.6	15.0	9.6	15.0	132	K35
APR									
20...	1135	3700	157	7.8	20.0	11.1	10.1	92	K1400
MAY									
18...	0845	1110	294	7.6	19.0	13.9	8.5	82	340
JUN									
15...	1045	826	332	8.0	24.5	10.9	9.1	99	510
AUG									
16...	1222	898	352	7.9	28.5	19.9	9.3	102	770

DATE	E. COLI ONPG-MUG, AUTO AN (COLO-NIES/ 100 ML (50468)	COLI-FORM, TOTAL, ONPG, AUTO AN (MPN/ 100 ML (90908)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT									
20...	81	3000	3.34	<.020	.40	.336	.297	9	26
DEC									
08...	61	>4800	4.22	.023	.33	.400	.337	8	20
FEB									
09...	6	1700	4.00	<.020	.41	.432	.367	18	42
APR									
20...	44	>2400	.724	.024	.45	.169	.072	63	629
MAY									
18...	490	>2400	1.51	<.020	.56	.264	.172	47	141
JUN									
15...	86	>2400	--	--	--	--	--	50	112
AUG									
16...	54	>2400	1.48	<.020	.71	.312	.184	62	150

K Results based on counts outside ideal colony range.

SNAKE RIVER MAIN STEM

13213100 SNAKE RIVER AT NYSSA, OR

LOCATION.--Lat 43°52'34", long 116°58'53", in NW¼SW¼NE¼ sec.7, T.6 N., R.5 W., Canyon County, Hydrologic Unit 17050115, on right bank, 300 ft upstream from U.S. Highway 20-26 bridge at Nyssa, 2.3 mi downstream from Boise River, and at mile 385.2.

DRAINAGE AREA.--58,700 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1974 to September 1986, February 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,170 ft above sea level, from topographic map. Prior to 1989, station located on left bank, in Oregon.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by many reservoirs above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57,900 ft^3/s Apr. 19, 1984, gage height, 13.34 ft; minimum, 4,110 ft^3/s June 7, 1992, gage height, 4.32 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,500 ft^3/s Apr. 14, gage height, 7.30 ft; minimum, 6,310 ft^3/s June 22, 26, gage height, 4.84 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13000	15800	13400	16400	14900	15100	17100	12200	8900	7900	8210	10100
2	10800	15800	12300	16700	14600	14300	16500	10900	8720	7050	7880	10100
3	11600	14900	12400	15600	14700	12200	17500	10000	8560	7510	8660	10100
4	11800	14400	13000	15600	13800	12000	16500	8850	8040	7960	8390	12100
5	12200	14800	13300	16600	14100	12400	16900	8630	7690	7850	8030	12200
6	12100	14200	11900	16200	13500	11900	16200	9880	7220	8150	8740	12000
7	11200	13100	12400	15800	13100	11000	17400	9030	7120	8240	8640	11600
8	11500	12800	13100	15300	12800	11000	17000	9520	7590	8360	8870	11300
9	11400	13100	12700	15700	12800	12700	16700	9820	7820	7980	8790	11300
10	11600	13200	13100	15900	11200	11000	16300	10600	7640	8160	8910	10800
11	12400	13000	12400	16300	10500	11700	16200	10900	7660	8300	8350	9900
12	12500	12800	12500	16100	10700	12200	16900	10700	7910	7690	8480	10500
13	12600	12600	12500	e16000	11700	12700	17000	10400	8110	7900	8520	10700
14	11400	12300	12700	e16000	10800	12900	18200	10400	8120	7830	8610	10400
15	11900	12700	13200	15800	12000	13100	18100	11300	7430	7770	8550	9160
16	11900	13300	12500	15700	11800	13500	18100	e12000	7970	7820	8640	8910
17	12300	12800	12500	15500	11900	13000	18100	e11000	6950	7720	8600	9280
18	12100	11600	12700	15500	11300	12600	17500	10500	6880	7900	9010	9250
19	12200	11500	12600	15500	12700	13400	18000	9840	7100	7730	8750	9440
20	12300	11700	12600	15500	11500	12500	18000	9240	7050	8440	8820	9190
21	11800	12000	12000	15500	10800	12600	16200	9100	6740	8090	9160	9090
22	12900	11300	12500	15500	11500	13700	16500	8660	6600	8020	9350	9630
23	13600	13500	13000	15500	11700	13700	16900	8880	6770	7590	9610	9520
24	13100	12700	12600	15700	12600	13000	16500	8840	6560	7530	9690	9940
25	12100	12500	12900	16200	11400	15200	14900	8390	6570	8450	9640	11400
26	13500	12300	14300	16100	12200	15100	15300	8430	6440	8600	9690	11500
27	13200	12800	13700	15500	12500	15300	14600	8840	7560	7710	9560	11400
28	12800	12800	13700	14800	13900	16900	13900	8790	7740	7670	9590	11400
29	12600	12600	14100	15100	14700	16800	12900	8850	7400	7930	9330	11100
30	13900	13300	14000	14900	---	16900	10700	8750	7390	8000	9630	11700
31	15300	---	14700	14800	---	17300	---	8820	---	8360	9990	---
TOTAL	383600	392200	401300	487300	361700	417700	492600	302060	224250	246210	276690	315010
MEAN	12370	13070	12950	15720	12470	13470	16420	9744	7475	7942	8925	10500
MAX	15300	15800	14700	16700	14900	17300	18200	12200	8900	8600	9990	12200
MIN	10800	11300	11900	14800	10500	11000	10700	8390	6440	7050	7880	8910
AC-FT	760900	777900	796000	966600	717400	828500	977100	599100	444800	488400	548800	624800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2000, BY WATER YEAR (WY)

MEAN	12470	13100	13660	14970	16070	18740	21380	20160	17300	9033	8881	10850
MAX	21360	24660	24320	30290	38580	40010	43970	49060	41100	16480	12620	17110
(WY)	1985	1985	1984	1984	1997	1986	1984	1984	1984	1983	1997	1997
MIN	8102	8924	8902	8908	8562	8018	6033	5367	5223	5546	5075	6664
(WY)	1993	1993	1993	1993	1992	1991	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1975 - 2000	
ANNUAL TOTAL	6162170		4300620			
ANNUAL MEAN	16880		11750		14680	
HIGHEST ANNUAL MEAN					26260	1984
LOWEST ANNUAL MEAN					7365	1992
HIGHEST DAILY MEAN	31800	Apr 11	18200	Apr 14	57400	Apr 20 1984
LOWEST DAILY MEAN	8260	Jul 16	6440	Jun 26	4240	Jun 7 1992
ANNUAL SEVEN-DAY MINIMUM	8710	Jul 10	6680	Jun 20	4520	Jun 6 1992
ANNUAL RUNOFF (AC-FT)	12220000		8530000		10630000	
10 PERCENT EXCEEDS	26800		16000		27200	
50 PERCENT EXCEEDS	15400		12000		11400	
90 PERCENT EXCEEDS	9780		7890		7450	

e Estimated

SNAKE RIVER MAIN STEM

13213100 SNAKE RIVER AT NYSSA, OR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1989 to September 1990, October 1992 to September 1993, April 1996 to September 1997, June to September 1998, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: August to September 1989.
pH: May to September 1989.
WATER TEMPERATURE: April to September 1989, August to September 1997, June to September 1998, April to September 2000 (discontinued).
DISSOLVED OXYGEN: August to September 1989.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 544 microsiemens/cm Sep. 3; minimum, 507 microsiemens/cm Sep. 19, 1989.
pH: Maximum, 9.82 units May 29; minimum, 8.00 units Aug. 26, 1989.
WATER TEMPERATURE: Maximum, 26.9 °C July 27-28, 1998.
DISSOLVED OXYGEN: Maximum, 13.8 mg/L Aug. 11; minimum, 6.7 mg/L Sep. 3, 1989.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 26.2 °C July 13, 21-22, 29.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
12...	1000	17000	387	8.5	20.0	13.0	7.5	--	--	100	200
MAY											
09...	1800	6100	403	8.8	22.0	16.6	16	13.7	154	100	120
JUN											
08...	1100	7370	416	8.4	20.0	20.0	10	8.2	99	250	810
JUL											
12...	0620	7680	597	8.4	19.0	23.4	32	--	--	K200	500
AUG											
23...	1000	9580	477	8.4	25.0	20.2	.5	9.4	113	K63	1900
SEP											
12...	1045	10300	503	8.6	21.0	17.8	1.2	9.4	107	66	490

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
12...	180	42.9	17.3	34.6	29	4.3	200	5

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
12...	171	52.7	21.0	.6	27.9	310	.42	8610

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR							
12...	.663	.016	.62	.084	.013	42	1930
MAY							
09...	.455	.099	.99	.106	.003	34	560
JUN							
08...	.714	.002	.65	.143	.016	49	975
JUL							
12...	.633	.050	.92	.162	.018	51	1060
AUG							
23...	.789	.002	.60	.111	.017	39	1010
SEP							
12...	1.24	.006	.57	.109	.044	24	667

K Results based on counts outside ideal colony range.

SNAKE RIVER MAIN STEM

13213100 SNAKE RIVER AT NYSSA, OR--Continued

WATER TEMPERATURE, DEGREES CELSIUS, APRIL TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	15.9	13.1	14.5
2	---	---	---	17.5	14.6	15.9
3	---	---	---	17.7	15.3	16.5
4	---	---	---	17.2	15.3	16.2
5	---	---	---	17.5	15.3	16.3
6	---	---	---	16.2	14.5	15.3
7	---	---	---	16.9	14.3	15.4
8	---	---	---	17.5	14.8	16.1
9	---	---	---	16.5	15.1	15.8
10	---	---	---	15.8	14.2	14.9
11	---	---	---	14.5	13.1	13.8
12	---	---	---	15.1	11.8	13.5
13	---	---	---	15.8	13.7	14.8
14	---	---	---	17.5	14.6	16.0
15	---	---	---	18.3	15.1	16.6
16	---	---	---	17.8	16.2	16.7
17	---	---	---	17.3	14.6	16.0
18	---	---	---	18.5	15.1	16.6
19	14.3	12.2	13.2	19.1	16.5	17.7
20	14.6	13.1	13.8	20.4	17.3	18.7
21	15.3	12.6	13.8	21.6	18.3	19.8
22	15.0	13.9	14.5	22.1	19.3	20.6
23	13.9	11.7	12.8	21.4	19.3	20.4
24	13.7	11.2	12.5	22.1	18.8	20.3
25	13.2	12.3	12.8	21.1	18.8	19.8
26	14.0	11.5	12.7	20.7	17.8	19.2
27	15.9	12.9	14.2	19.6	18.5	19.0
28	15.6	13.9	14.8	20.6	18.0	19.1
29	14.6	11.8	13.3	20.1	17.5	18.9
30	15.1	12.0	13.5	18.9	17.0	17.9
31	---	---	---	17.7	15.6	16.6
MONTH	---	---	---	22.1	11.8	17.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.3	15.1	17.1	24.4	21.9	23.3	25.5	22.7	24.3	19.9	18.1	18.9
2	21.1	17.2	18.9	23.9	20.7	22.4	25.8	23.2	24.5	18.5	17.2	17.8
3	22.1	18.8	20.3	23.1	20.4	21.6	25.3	23.1	24.3	17.5	16.1	16.7
4	23.4	19.6	21.4	21.2	18.8	20.1	25.8	23.2	24.4	18.3	16.2	17.1
5	23.6	20.7	22.1	20.4	19.3	19.7	25.3	22.6	23.9	18.0	16.9	17.4
6	23.2	19.9	21.7	20.9	17.7	19.2	25.1	22.6	23.9	18.5	16.2	17.3
7	23.6	20.6	22.1	22.7	19.3	20.7	25.3	22.7	24.1	18.8	16.5	17.7
8	22.7	19.3	20.6	23.1	20.4	21.7	25.5	22.9	24.2	18.5	17.0	17.9
9	19.4	17.3	18.5	23.7	20.4	22.0	25.5	22.9	24.3	18.0	16.1	17.1
10	18.6	17.0	17.9	24.1	20.9	22.5	25.6	23.2	24.5	17.5	16.1	16.6
11	17.8	16.4	17.3	24.8	21.6	23.1	25.0	22.6	23.8	18.3	15.6	16.8
12	18.1	16.7	17.2	25.6	22.4	24.0	24.6	22.1	23.4	19.6	17.0	18.2
13	20.1	16.2	17.9	26.2	22.9	24.5	24.6	22.1	23.4	20.6	18.5	19.5
14	22.7	18.5	20.3	25.6	22.9	24.4	23.9	21.4	22.8	21.2	19.1	20.2
15	22.4	20.1	21.3	25.1	22.2	23.2	23.7	21.4	22.7	21.4	19.3	20.3
16	21.6	18.6	20.1	23.9	21.2	22.5	23.4	20.9	22.2	21.1	19.3	20.2
17	22.4	19.1	20.7	23.2	21.6	22.3	23.4	20.9	22.2	21.1	19.1	20.1
18	22.4	19.4	20.9	23.4	21.2	22.2	23.4	20.9	22.2	20.9	19.1	20.1
19	21.2	18.6	20.1	24.8	21.1	22.8	23.1	20.4	21.8	20.4	19.1	19.8
20	21.9	18.1	19.9	25.5	22.1	23.7	21.9	19.4	20.8	19.4	17.5	18.5
21	23.2	19.6	21.3	26.2	23.1	24.6	21.4	19.1	20.3	18.5	16.7	17.7
22	23.1	21.1	22.2	26.2	23.1	24.6	21.9	19.3	20.5	17.2	15.1	15.9
23	22.6	20.4	21.6	25.1	22.2	23.9	22.2	19.6	21.0	15.3	12.9	14.2
24	23.4	20.1	21.7	25.0	22.1	23.6	23.1	20.9	21.9	15.0	12.8	14.0
25	23.4	20.4	21.9	25.5	22.6	24.0	23.2	20.9	22.1	15.4	13.2	14.3
26	23.9	20.6	22.2	25.3	22.7	24.0	23.2	20.7	22.1	15.9	13.9	14.9
27	24.1	20.7	22.5	25.5	22.7	24.2	23.1	20.6	21.9	16.4	14.3	15.4
28	24.6	21.4	23.0	25.8	22.7	24.2	22.1	19.8	20.9	16.9	15.1	15.9
29	25.1	21.7	23.4	26.2	23.1	24.6	21.2	19.1	20.4	17.0	15.4	16.3
30	25.5	22.2	23.8	26.0	23.6	24.9	21.7	19.4	20.5	17.3	15.8	16.5
31	---	---	---	25.8	23.4	24.7	21.1	19.4	20.2	---	---	---
MONTH	25.5	15.1	20.7	26.2	17.7	23.0	25.8	19.1	22.6	21.4	12.8	17.4

SNAKE RIVER MAIN STEM

13213100 SNAKE RIVER AT NYSSA, OR--Continued

COLLECTION METHODS.--Electrofishing; boat (13A), backpack (11A).

LENGTH OF REACH.--1120 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--13A 0.8 hours; 11A 0.38 hours

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

HABITAT QUALITY INDEX.--NA

COMMENTS.--Large river.

BIOLOGICAL DATA, JULY TO SEPTEMBER 2000
FISH COLLECTION DATA

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	July 6								
Catostomidae (Suckers)									
Catostomus columbianus (Bridgelip sucker)		6	4.5	112-520	17-1529	NATIVE	HERBIVORE	COLD	6-AA
Catostomus macrocheilus (Largescale sucker)		55	41.7	33-590	1-2189	NATIVE	OMNIVORE	COLD	1-LE,1-ER, 53-AA
Catostomus platyrhychus (Mountain sucker)		3	2.3	105-170	13-55	NATIVE	HERBIVORE	COLD	3-AA
Centrarchidae (sunfishes)									
Lepomis gibbosus (Pumpkinseed)		1	0.8	80	15	INTRODUCED	PISCIVORE	WARM	1-AA
Micropterus dolomieui (Smallmouth bass)		14	10.6	45-162	2-63	INTRODUCED	PISCIVORE	COOL	14-AA
Cottidae (Sculpins)									
Cottus bairdi (Mottled sculpin)		1	0.8	40	1	NATIVE	INVERTIVORE	COLD	1-AA
Cyprinidae (Carps and minnows)									
Acrocheilus alutaceus (Chislemouth)		7	5.3	130-260	26-158	NATIVE	HERBIVORE	COLD	1-LE,6-AA
Cyprinus carpio (Common Carp)		6	4.5	477-592	14330-3200	INTRODUCED	OMNIVORE	WARM	6-AA
Pimephales promelas (Fathead minnow)		4	3.0	44-57	1-3	INTRODUCED	OMNIVORE	WARM	4-AA
Ptychocheilus oregonensis (Northern pikeminnow)		3	2.3	168-286	50-178	NATIVE	INVERTIVORE	COOL	3-AA
Ictaluridae (Bullhead catfishes)									
Ictalurus punctatus (Channel catfish)		23	17.4	375-532	468-1430	INTRODUCED	OMNIVORE	WARM	2-LE,9-AA 12-AA
Salmonidae (Trouts)									
Prosopium williamsoni (Mountain whitefish)		9	6.8	100-142	9-26	NATIVE	INVERTIVORE	COLD	9-AA
TOTAL NUMBER OF TAXA	12								
TOTAL INDIVIDUALS	132								
	Sept. 19								
Catostomidae (Suckers)									
Catostomus columbianus (Bridgelip sucker)		2	1.4	150-152	46-49	NATIVE	HERBIVORE	COLD	1-ER,1-AA
Catostomus macrocheilus (Largescale sucker)		45	30.6	110-565	12-2263	NATIVE	OMNIVORE	COLD	1-LE44-AA
Catostomus platyrhychus (Mountain sucker)		1	0.7	187	62	NATIVE	HERBIVORE	COLD	1-AA
Centrarchidae (sunfishes)									
Micropterus dolomieui (Smallmouth bass)		77	52.4	70-338	3-619	INTRODUCED	PISCIVORE	COOL	77-AA
Pomoxis annularis (White crappie)		1	0.7	198	110	INTRODUCED	INVERTIVORE	WARM	1-AA
Cyprinidae (Carps and minnows)									
Acrocheilus alutaceus (Chislemouth)		3	2.0	176-262	57-181	NATIVE	OMNIVORE	COLD	3-AA
Cyprinus carpio (Common Carp)		5	3.4	520-735	1500-5700	INTRODUCED	OMNIVORE	WARM	5-AA
Ptychocheilus oregonensis (Northern pikeminnow)		1	0.7	168	34	NATIVE	INVERTIVORE	COOL	1-AA
Ictaluridae (Bullhead catfishes)									
Ictalurus punctatus (Channel catfish)		11	7.5	425-575	714-2380	INTRODUCED	OMNIVORE	WARM	2-PA,9-AA
Salmonidae (Trouts)									
Prosopium williamsoni (Mountain whitefish)		1	0.7	171	50	NATIVE	INVERTIVORE	COLD	1-AA
TOTAL NUMBER OF TAXA	10								
TOTAL INDIVIDUALS	147								

MALHEUR RIVER BASIN

13233300 MALHEUR RIVER BELOW NEVADA DAM NEAR VALE, OR

LOCATION.--Lat 43°59'20", long 117°13'10", in NE¼SW¼ sec.21, T.18 S., R.45 E., Malheur County, Hydrologic Unit 17050117, on right bank, 510 ft downstream from dam and headgates of Nevada Canal, and 1.5 mi northeast of Vale, Oregon.

DRAINAGE AREA.--3,880 mi^2, approximately.

PERIOD OF RECORD.--June 1926 to September 1934, October 1950 to September 1954, October 1993 to current year. Monthly discharge only for 1936-42, 1944-50, furnished by the State Engineer of Oregon, published in WSP 1317.

GAGE.--Water-stage recorder. Elevation of gage is 2,220 ft above sea level, from topographic map. Prior to Nov. 17, 1930, at datum 1.00 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Many diversions for irrigation above station. Since March 1930, Vale-Oregon Canal has diverted in sec.31 T.20 S., R.41 E., for irrigation above station and on Willow Creek, a tributary which enters partly above and partly below station. Gillerman-Frohman Canal diverts on left bank in sec.8, T.19 S., R.44 E., for irrigation above and below station. Nevada Canal diverts on right bank 300 ft above station for irrigation below station. Flow regulated by Warmsprings Reservoir and, since December 1935, by Beulah Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,530 ft^3/s Feb. 28, 1940, gage height, 8.88 ft; no flow at times some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 24, 1957 reached a stage of 14.6 ft, discharge 21,000 ft^3/s. Flood of Mar. 19, 1993 reached a stage of 13.31 ft, discharge 16,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,030 ft^3/s Apr. 17, gage height, 5.16 ft; minimum, 57 ft^3/s May 5, gage height, 0.95 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	266	208	160	130	110	1150	737	178	217	93	118	141
2	254	189	158	128	106	1050	681	185	214	106	99	181
3	256	187	157	130	103	856	692	186	192	126	93	204
4	260	185	155	138	102	656	756	198	160	143	90	220
5	270	187	147	133	102	584	1060	194	155	159	92	233
6	275	185	150	128	102	606	1200	205	126	164	117	250
7	270	183	153	134	102	707	1530	239	116	146	118	276
8	274	196	147	136	102	788	1690	255	131	138	105	290
9	268	189	149	133	102	893	1820	265	170	129	98	286
10	262	183	152	138	102	865	1730	277	184	129	103	270
11	257	180	152	155	102	818	1570	280	192	113	87	250
12	248	179	153	174	110	751	1540	268	223	111	84	223
13	239	177	159	165	121	713	1350	281	241	108	107	212
14	234	175	150	159	150	664	1490	295	203	93	110	214
15	231	174	147	169	296	536	1910	298	173	102	107	212
16	221	174	156	199	438	511	1990	279	157	114	91	203
17	231	172	154	202	342	541	1990	253	173	125	93	199
18	225	167	158	174	279	624	1740	222	216	127	96	194
19	206	164	152	131	267	654	1420	206	223	120	95	182
20	203	163	147	122	256	661	1170	196	221	113	91	174
21	235	163	146	119	248	679	1030	187	182	111	107	185
22	207	163	143	117	240	647	920	173	184	114	117	189
23	190	163	141	115	282	610	746	154	147	107	119	193
24	186	163	132	114	304	647	598	150	136	104	121	202
25	183	163	128	116	277	725	541	147	131	98	130	215
26	180	163	132	116	260	692	459	160	124	94	124	218
27	180	161	135	111	456	729	311	170	111	100	126	223
28	184	158	135	106	769	851	229	186	111	102	124	229
29	190	158	133	103	1110	1270	182	194	115	98	122	236
30	191	160	133	100	---	1240	159	190	109	96	124	234
31	188	---	133	110	---	1050	---	195	---	113	128	---
TOTAL	7064	5232	4547	4205	7340	23768	33241	6666	5037	3596	3336	6538
MEAN	228	174	147	136	253	767	1108	215	168	116	108	218
MAX	275	208	160	202	1110	1270	1990	298	241	164	130	290
MIN	180	158	128	100	102	511	159	147	109	93	84	141
AC-FT	14010	10380	9020	8340	14560	47140	65930	13220	9990	7130	6620	12970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

MEAN	176	148	156	379	591	724	748	363	202	127	129	185
MAX	228	174	314	1589	1322	1881	1695	988	541	179	220	300
(WY)	2000	2000	1997	1997	1997	1999	1999	1998	1998	1998	1999	1998
MIN	74.1	100	78.9	128	94.2	65.9	41.5	105	57.1	34.2	20.8	10.9
(WY)	1995	1995	1995	1994	1994	1994	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000	
ANNUAL TOTAL	196130		110570			
ANNUAL MEAN	537		302		325	
HIGHEST ANNUAL MEAN					535	1999
LOWEST ANNUAL MEAN					87.0	1994
HIGHEST DAILY MEAN	4080	Mar 2	1990	Apr 16	6230	Jan 3 1997
LOWEST DAILY MEAN	121	Jan 4	84	Aug 12	8.0	Sep 29 1994
ANNUAL SEVEN-DAY MINIMUM	129	Jan 9	97	Aug 11	9.8	Sep 15 1994
ANNUAL RUNOFF (AC-FT)	389000		219300		235800	
10 PERCENT EXCEEDS	1710		726		827	
50 PERCENT EXCEEDS	219		180		164	
90 PERCENT EXCEEDS	147		106		77	

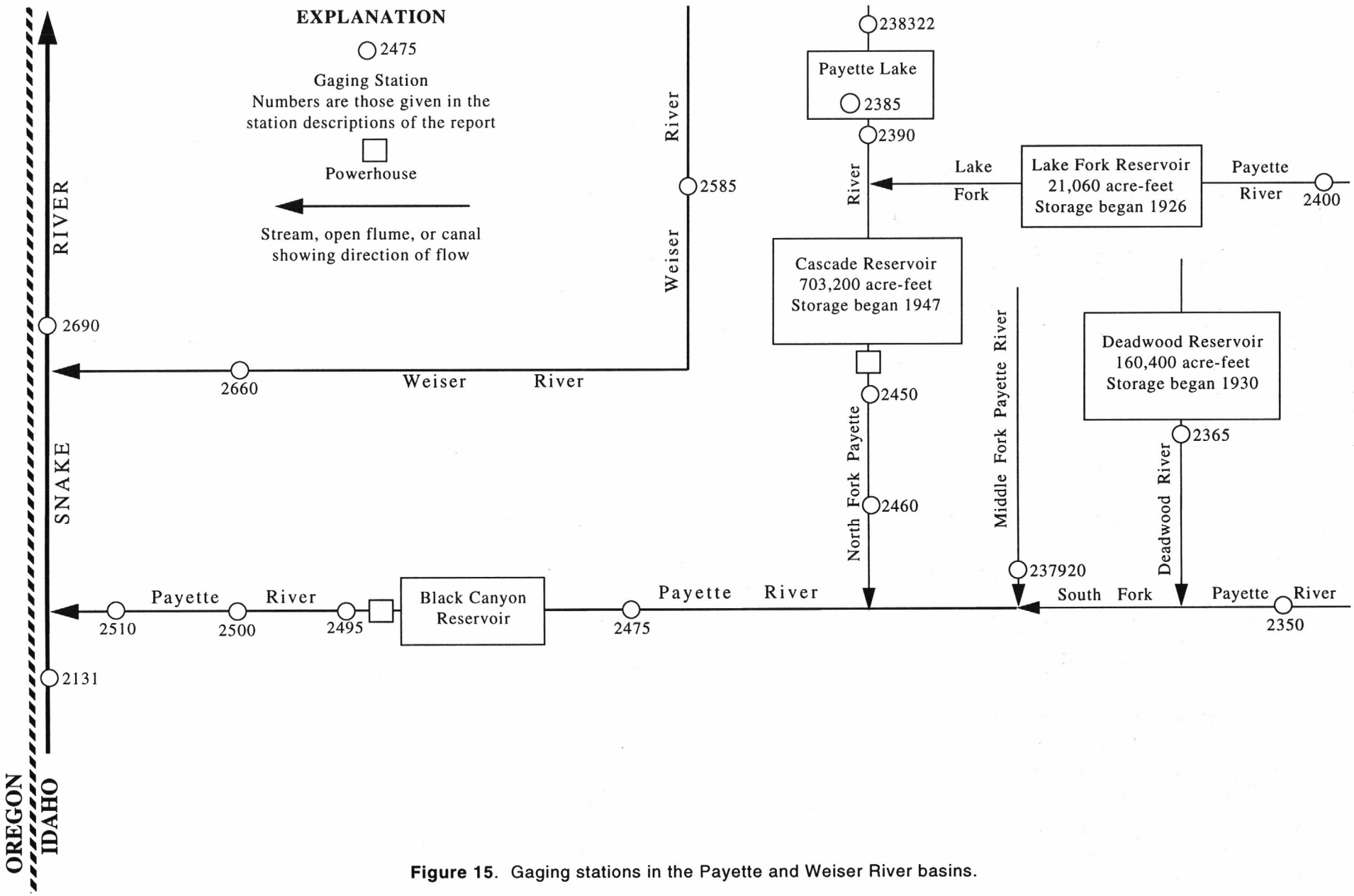


Figure 15. Gaging stations in the Payette and Weiser River basins.

PAYETTE RIVER BASIN

13235000 SOUTH FORK PAYETTE RIVER AT LOWMAN, ID

LOCATION.--Lat 44°05'07", long 115°37'16", in SE¼NW¼SW¼ sec.27, T.9 N., R.7 E., Boise County, Hydrologic Unit 17040120, Boise National Forest, on right bank, 1,200 ft upstream from Rock Creek, 0.5 mi northwest of Lowman, 4,100 ft downstream from Clear Creek, and at mile 106.

DRAINAGE AREA.--456 mi^2. Mean elevation, 6,780 ft.

PERIOD OF RECORD.--May 1941 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,790 ft above sea level, from river-profile map. Prior to Dec. 18, 1941, nonrecording gage at site 900 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. No regulation. Return flow from several small irrigation diversions enters river above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,980 ft^3/s June 16, 1974, gage height, 8.36 ft, from floodmark; minimum daily, 130 ft^3/s Dec. 31, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 25	0630	*3,230	*5.55	No other peak greater than base discharge.			

Minimum daily, 240 ft^3/s Jan. 29, 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	385	345	396	e320	376	396	575	1700	2010	934	454	378
2	382	340	380	e300	344	403	650	1900	1890	915	439	425
3	380	339	363	e280	308	411	813	2070	1960	881	430	416
4	378	345	326	e300	306	439	984	2200	2150	834	433	387
5	374	366	364	e320	310	490	1220	2220	2330	793	428	373
6	381	359	438	e280	305	541	1060	1990	2480	779	418	362
7	386	348	369	e280	306	543	878	1790	2480	751	410	352
8	376	345	341	e300	309	517	840	1640	2510	736	402	346
9	371	341	340	e320	321	491	955	1540	2240	721	397	338
10	370	338	352	e320	327	464	1030	1480	1940	e700	394	339
11	367	338	342	e300	350	455	1110	1380	1740	e700	389	353
12	360	335	343	e300	351	436	1210	1290	1860	e650	386	339
13	357	333	357	337	348	428	1450	1220	2330	e650	380	330
14	356	330	336	356	378	448	1490	1180	2080	631	375	324
15	353	328	344	368	411	441	1330	1210	2020	623	369	317
16	350	329	346	367	378	443	1200	1290	1990	614	367	314
17	353	338	343	357	365	433	1120	1380	1730	599	365	312
18	356	336	357	342	326	418	1150	1620	1550	602	362	312
19	353	330	338	339	e300	452	1240	1860	1480	594	360	310
20	352	354	333	335	e320	429	1340	2020	1410	568	360	310
21	350	336	e300	331	e360	419	1630	2200	1320	557	360	309
22	348	324	e280	326	367	441	1820	2610	1300	545	353	322
23	345	287	e260	310	405	512	1780	2920	1290	527	347	320
24	344	337	e280	331	412	500	1600	3010	1250	496	349	318
25	342	397	e300	324	379	493	1480	3120	1200	484	344	315
26	341	644	e300	319	376	521	1400	2910	1140	483	339	312
27	344	503	e320	e280	395	609	1390	2680	1090	477	338	307
28	507	407	e300	e260	405	711	1690	2710	1050	473	335	304
29	417	382	e300	e240	399	631	1760	2740	1020	466	330	300
30	367	378	e280	e240	---	572	1670	2530	973	452	329	300
31	356	---	e300	e300	---	550	---	2260	---	460	331	---
TOTAL	11401	10812	10328	9682	10237	15037	37865	62670	51813	19695	11673	10044
MEAN	368	360	333	312	353	485	1262	2022	1727	635	377	335
MAX	507	644	438	368	412	711	1820	3120	2510	934	454	425
MIN	341	287	260	240	300	396	575	1180	973	452	329	300
AC-FT	22610	21450	20490	19200	20310	29830	75110	124300	102800	39070	23150	19920
CFSM	.81	.79	.73	.68	.77	1.06	2.77	4.43	3.79	1.39	.83	.73
IN.	.93	.88	.84	.79	.84	1.23	3.09	5.11	4.23	1.61	.95	.82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2000, BY WATER YEAR (WY)

MEAN	363	370	360	339	348	454	1007	2240	2764	1252	529	389
MAX	598	648	735	894	662	1144	2209	4068	5751	2631	871	539
(WY)	1963	1974	1965	1997	1996	1986	1943	1997	1974	1982	1965	1965
MIN	223	237	220	222	239	229	384	513	651	331	237	230
(WY)	1989	1995	1991	1979	1988	1977	1955	1977	1987	1977	1977	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1942 - 2000	
ANNUAL TOTAL	360363		261257			
ANNUAL MEAN	987		714		869	
HIGHEST ANNUAL MEAN					1410	1997
LOWEST ANNUAL MEAN					352	1977
HIGHEST DAILY MEAN	5320	May 29	3120	May 25	8900	Jun 16 1974
LOWEST DAILY MEAN	260	Dec 23	240	Jan 29	130	Dec 31 1994
ANNUAL SEVEN-DAY MINIMUM	291	Dec 21	280	Jan 25	154	Dec 29 1994
ANNUAL RUNOFF (AC-FT)	714800		518200		629500	
ANNUAL RUNOFF (CFSM)	2.17		1.57		1.91	
ANNUAL RUNOFF (INCHES)	29.40		21.31		25.89	
10 PERCENT EXCEEDS	2590		1770		2260	
50 PERCENT EXCEEDS	438		386		430	
90 PERCENT EXCEEDS	324		310		271	

e Estimated

PAYETTE RIVER BASIN

13236500 DEADWOOD RIVER BELOW DEADWOOD RESERVOIR, NEAR LOWMAN, ID

LOCATION.--Lat 44°17'30", long 115°38'33", in SE¼NE¼ sec.17, T.11 N., R.7 E., Valley County, Hydrologic Unit 17050120, Boise National Forest, on right bank, 300 ft upstream from Wilson Creek, 0.2 mi downstream from Deadwood Dam, 15 mi north of Lowman, and at mile 23.4.

DRAINAGE AREA.--112 mi^2. Mean elevation, 6,630 ft.

PERIOD OF RECORD.--October 1926 to current year. Monthly discharge only prior to May 1927, published in WSP 1317. Published as "at Beaver Creek Ranger Station, near Lowman" prior to October 1934.

REVISED RECORDS.--WSP 1123: 1943. WSP 1517: 1956. WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,180.52 ft above sea level (levels by U.S. Bureau of Reclamation). U.S. Geological Survey datum is 29.19 ft higher. Prior to June 22, 1935, at site 600 ft upstream at datum 5.85 ft higher and Oct. 1, 1935 to Aug. 3, 1955, at present site at datum 1.00 ft higher. June 22 to Sept. 30, 1935, nonrecording gage at site 20 ft upstream at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Station equipment includes satellite telemetry. Flow regulated by Deadwood Reservoir beginning November 1930 (see sta 13236000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1927-30), 2,150 ft^3/s May 26, 1928, gage height, 5.67 ft, site and datum then in use; minimum daily, 35 ft^3/s Nov. 21, 1929. Maximum discharge since regulation began in 1931, 2,580 ft^3/s July 14, 1953, maximum gage height, 9.09 ft, June 1, 1983; no flow or small amount of leakage from reservoir for long periods in 1934-37, 1993, 1994, when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 929 ft^3/s Sept. 1; minimum daily, 38 ft^3/s Oct. 20, Oct. 30 to Nov. 25, Nov. 27 to Dec. 17.

REVISIONS.--Revised figures of discharge for water year 1997, superseding those published in the report for 1997, are given below. The published maximum daily discharge, 1,300 ft^3/s June 2, also occurred Feb. 18 and June 13, 1997.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR FEBRUARY AND MARCH 1997
DAILY MEAN VALUES

DAY	FEB	MAR	DAY	FEB	MAR	DAY	FEB	MAR	DAY	FEB	MAR
1	121	e700	9	e1000	e750	17	e1200	e700	25	e800	e550
2	51	e700	10	e1000	e750	18	e1300	e700	26	e750	e420
3	59	e750	11	e1000	e750	19	e750	e700	27	e800	e420
4	174	e750	12	e1000	e750	20	e750	e650	28	e800	e440
5	371	e750	13	e1000	e750	21	e800	e650	29	---	e400
6	e700	e750	14	e1000	e750	22	e800	e650	30	---	e360
7	e950	e750	15	e1000	e700	23	e750	e650	31	---	e360
8	e950	e750	16	e1100	e750	24	e750	e650			

	FEB	MAR
TOTAL	21726	20150
MEAN	776	650
MAX	1300	750
MIN	51	360
AC-FT	43090	39970

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1931 - 1997	
ANNUAL TOTAL	123647		153028			
ANNUAL MEAN	338		419		233	
HIGHEST ANNUAL MEAN					441	1951
LOWEST ANNUAL MEAN					104	1931
HIGHEST DAILY MEAN	1730	Jun 10	1300	Feb 18	2220	May 31 1983
LOWEST DAILY MEAN	40	May 23	41	Sep 30	.00	Oct 1 1934
ANNUAL SEVEN-DAY MINIMUM	47	May 17	42	Sep 24	.00	Oct 6 1934
ANNUAL RUNOFF (AC-FT)	245300		303500		168900	
10 PERCENT EXCEEDS	767		900		888	
50 PERCENT EXCEEDS	223		360		3.5	
90 PERCENT EXCEEDS	57		54		1.1	

e Estimated

PAYETTE RIVER BASIN

13236500 DEADWOOD RIVER BELOW DEADWOOD RESERVOIR, NEAR LOWMAN, ID--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	38	38	45	44	45	45	174	650	436	623	929
2	41	38	38	45	44	45	45	92	635	436	623	926
3	41	38	38	45	44	45	45	92	623	435	622	923
4	41	38	38	45	44	45	45	93	617	435	621	864
5	41	38	38	45	44	45	45	93	622	435	620	455
6	41	38	38	45	44	45	45	93	626	434	620	198
7	41	38	38	45	44	45	51	92	628	434	619	198
8	41	38	38	45	44	45	96	92	626	434	619	197
9	41	38	38	45	44	45	110	92	609	433	619	197
10	41	38	38	45	44	45	208	91	578	433	618	197
11	41	38	38	45	44	45	207	91	547	432	631	197
12	41	38	38	45	45	45	207	91	551	432	645	196
13	41	38	38	45	45	45	208	91	606	431	645	97
14	41	38	38	45	45	45	208	91	582	430	656	46
15	41	38	38	44	45	45	208	91	558	430	750	46
16	41	38	38	44	45	45	208	91	515	429	769	52
17	41	38	38	44	45	45	208	91	482	429	768	56
18	41	38	43	44	45	46	207	92	454	429	768	56
19	41	38	44	44	45	46	208	93	431	429	767	57
20	38	38	44	44	45	45	208	93	405	429	765	57
21	41	38	44	44	45	45	210	93	421	429	764	57
22	41	38	44	44	45	45	210	101	433	428	762	57
23	41	38	44	44	45	45	210	204	429	428	778	57
24	41	38	44	44	45	46	209	204	437	428	870	57
25	41	38	45	44	45	46	209	217	444	427	867	57
26	41	39	45	44	45	45	209	312	422	427	864	57
27	41	38	45	44	45	45	210	428	431	453	862	56
28	41	38	45	44	45	45	211	536	437	626	859	56
29	39	38	45	44	45	45	210	617	437	624	856	56
30	38	38	45	44	---	45	210	655	437	625	853	56
31	38	---	45	44	---	45	---	662	---	624	862	---
TOTAL	1260	1141	1268	1378	1294	1399	4910	5948	15673	14164	22565	6510
MEAN	40.6	38.0	40.9	44.5	44.6	45.1	164	192	522	457	728	217
MAX	41	39	45	45	45	46	211	662	650	626	870	929
MIN	38	38	38	44	44	45	45	91	405	427	618	46
AC-FT	2500	2260	2520	2730	2570	2770	9740	11800	31090	28090	44760	12910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1930, BY WATER YEAR (WY) (UNREGULATED)

MEAN	72.0	91.2	82.7	62.5	65.7	89.7	219	794	742	223	96.0	76.1
MAX	107	173	107	85.0	75.0	135	393	1411	1514	444	147	115
(WY)	1928	1928	1928	1928	1927	1928	1930	1928	1927	1927	1927	1927
MIN	54.3	49.8	47.7	45.0	55.2	61.9	104	470	368	115	67.8	56.4
(WY)	1930	1930	1929	1930	1930	1929	1929	1929	1930	1930	1930	1929

SUMMARY STATISTICS	[a] WATER YEARS 1927 - 1930	
ANNUAL MEAN	218	
HIGHEST ANNUAL MEAN	303	1927
LOWEST ANNUAL MEAN	142	1929
HIGHEST DAILY MEAN	2100	May 26 1928
LOWEST DAILY MEAN	35	Nov 21 1929
ANNUAL SEVEN-DAY MINIMUM	39	Nov 19 1929
ANNUAL RUNOFF (AC-FT)	158100	
10 PERCENT EXCEEDS	544	
50 PERCENT EXCEEDS	88	
90 PERCENT EXCEEDS	50	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2000, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	97.0	20.2	29.2	21.4	24.0	29.9	83.0	189	512	586	710	494
MAX	716	184	412	284	776	650	684	927	1595	1259	1424	1435
(WY)	1944	1939	1939	1997	1997	1997	1971	1946	1984	1973	1951	1956
MIN	.000	.000	.000	.000	.50	.84	.96	.99	1.00	32.5	132	1.70
(WY)	1936	1935	1935	1935	1934	1987	1982	1982	1932	1932	1941	1988

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		[b] WATER YEARS 1931 - 2000	
ANNUAL TOTAL	107243		77510			
ANNUAL MEAN	294		212		234	
HIGHEST ANNUAL MEAN					441	1951
LOWEST ANNUAL MEAN					104	1931
HIGHEST DAILY MEAN	955	Aug 14	929	Sep 1	2220	May 31 1983
LOWEST DAILY MEAN	38	Oct 20	38	Oct 20	.00	Oct 1 1934
ANNUAL SEVEN-DAY MINIMUM	38	Oct 30	38	Oct 30	.00	Oct 6 1934
ANNUAL RUNOFF (AC-FT)	212700		153700		169600	
10 PERCENT EXCEEDS	754		623		878	
50 PERCENT EXCEEDS	165		45		4.0	
90 PERCENT EXCEEDS	38		38		1.1	

a Unregulated.
b Regulated by Deadwood Reservoir.

PAYETTE RIVER BASIN

13237920 MIDDLE FORK PAYETTE RIVER NEAR CROUCH, ID

LOCATION.--Lat 44°06'50", long 115°58'20", in NW¼SE¼SE¼ sec.16, T.9 S., R.4 E., Boise County, Hydrologic Unit 17050121, on left bank at State Highway 17, 10 ft downstream from bridge, 1.0 mi downstream from Anderson Creek, 0.7 mi southwest of Crouch, and at mile 1.4.

DRAINAGE AREA.--340 mi^2, approximately.

PERIOD OF RECORD.--July 1970 (discharge measurement only), October 1999 to September 2000.

GAGE.--Water-stage recorder. Elevation of gage is 3,040 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,700 ft^3/s Apr. 13, gage height, 4.63 ft; minimum daily, 80 ft^3/s Nov. 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	109	192	e150	e160	e360	478	955	691	e208	114	91
2	99	107	184	e150	191	e360	560	1040	646	e200	110	128
3	99	105	148	e130	182	e340	747	1080	632	e200	107	172
4	98	106	113	e140	174	e360	874	1150	628	e190	107	123
5	98	116	122	154	175	e400	1120	1150	644	e190	106	146
6	97	129	e180	e140	173	e500	973	1080	637	192	106	139
7	105	114	170	e150	173	e550	790	972	614	188	104	115
8	102	108	166	e150	178	e480	725	905	602	181	102	109
9	100	106	156	e150	190	e420	806	898	556	173	100	105
10	100	104	161	153	201	e360	861	878	507	173	98	104
11	102	106	163	179	225	e320	940	825	466	168	99	118
12	100	104	162	189	263	e300	1020	769	531	164	98	113
13	98	102	184	e160	257	e280	1300	738	666	161	98	107
14	99	101	163	171	270	e340	1490	708	506	155	98	102
15	98	101	164	190	e360	e360	1240	710	462	151	98	98
16	99	100	166	207	e300	e360	1090	715	423	152	97	96
17	102	107	170	228	e260	336	988	761	384	148	96	95
18	105	114	174	207	e240	314	e950	781	358	146	94	95
19	105	101	167	197	e200	365	e1000	837	340	141	94	95
20	103	123	e140	202	e220	323	e1050	868	320	140	94	95
21	103	119	e130	204	e260	309	1260	909	304	137	94	95
22	102	100	e120	197	e240	317	1350	1000	291	134	94	96
23	102	80	e110	181	e300	414	1340	1080	276	130	92	101
24	101	110	e120	185	e380	463	1120	1070	261	127	88	98
25	100	159	e120	186	e340	435	989	1070	248	126	89	99
26	100	507	e130	184	e300	443	922	1010	232	125	87	99
27	102	380	e130	e150	e360	538	905	946	223	122	87	98
28	195	e220	e140	e110	e380	663	1080	934	215	118	87	97
29	175	182	e150	e100	e380	583	1030	891	214	118	86	96
30	125	176	e140	e120	---	499	951	829	213	117	86	96
31	115	---	e140	e140	---	465	---	765	---	116	86	---
TOTAL	3329	4196	4675	5154	7332	12557	29949	28324	13090	4791	2996	3221
MEAN	107	140	151	166	253	405	998	914	436	155	96.6	107
MAX	195	507	192	228	380	663	1490	1150	691	208	114	172
MIN	97	80	110	100	160	280	478	708	213	116	86	91
AC-FT	6600	8320	9270	10220	14540	24910	59400	56180	25960	9500	5940	6390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	107	140	151	166	253	405	998	914	436	155	96.6	107
MAX	107	140	151	166	253	405	998	914	436	155	96.6	107
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	107	140	151	166	253	405	998	914	436	155	96.6	107
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000

SUMMARY STATISTICS	FOR 2000 WATER YEAR	
ANNUAL TOTAL	119614	
ANNUAL MEAN	327	
HIGHEST ANNUAL MEAN		
LOWEST ANNUAL MEAN		
HIGHEST DAILY MEAN	1490	Apr 14
LOWEST DAILY MEAN	80	Nov 23
ANNUAL SEVEN-DAY MINIMUM	87	Aug 25
ANNUAL RUNOFF (AC-FT)	237300	
10 PERCENT EXCEEDS	906	
50 PERCENT EXCEEDS	173	
90 PERCENT EXCEEDS	98	

e Estimated

PAYETTE RIVER BASIN

13238322 NORTH FORK PAYETTE RIVER BELOW FISHER CREEK, NEAR MCCALL, ID

LOCATION.--Lat 45°02'05", long 116°03'30", in NW¼NE¼NW¼ sec.35, T.20 N., R.3 E., Valley County, Hydrologic Unit 17050123, on right bank, 0.2 mi downstream from Fisher Creek, 3.0 mi upstream from the north end of Payette Lake, 8.6 mi north of McCall.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,020 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Partial regulation for irrigation supply from Upper Payette Lake (usable storage capacity 3,000 acre-feet), Granite Lake (usable storage capacity 2,900 acre-feet) and Box Lake (usable storage capacity 1,295 acre-feet).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,570 ft³/s May 18, 1996, gage height, 8.76 ft; minimum daily, 4.4 ft³/s Oct. 9, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,640 ft³/s May 21, gage height, 7.55 ft; minimum daily, 7.7 ft³/s Oct. 18-21, 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	26	72	e50	e46	e38	73	1330	618	100	20	47
2	11	22	e65	e48	e48	e38	94	1750	761	100	20	54
3	10	19	e55	e44	e44	e38	133	1690	929	92	20	50
4	9.8	19	e36	e46	e42	41	209	1760	962	84	20	48
5	9.3	26	e44	e46	e42	42	305	1330	1000	78	22	76
6	9.5	85	e55	e44	e42	47	264	1060	953	67	22	96
7	9.9	73	e50	e46	e42	e44	203	931	874	51	22	85
8	9.8	56	e46	e46	e42	e42	206	1050	794	54	22	86
9	9.7	45	e50	e46	e42	43	287	1090	573	56	22	67
10	9.6	40	e55	e46	e42	e42	378	938	459	54	21	48
11	9.6	41	e50	e46	e44	44	482	632	448	50	23	42
12	9.2	47	e55	e44	e42	e38	628	494	1000	46	25	38
13	8.7	47	e55	e42	e42	40	925	474	894	42	25	34
14	8.4	41	e46	e44	e46	41	895	597	698	38	24	29
15	8.3	35	e50	e46	e44	41	692	937	635	35	24	18
16	8.0	32	e50	e48	e42	40	585	1420	507	33	24	16
17	7.9	33	e50	e46	e40	e42	542	2090	277	31	24	15
18	7.7	30	e55	e44	e36	41	717	1850	225	29	23	18
19	7.7	29	e50	e44	e38	44	854	1720	205	28	23	33
20	7.7	33	e48	e46	e40	e42	965	1600	206	27	23	32
21	7.7	45	e48	e44	e44	e40	1180	1820	225	27	22	32
22	7.8	37	e40	e42	e42	45	1320	2010	296	25	23	31
23	7.8	60	e34	e40	e44	52	1070	1710	301	24	33	30
24	7.7	34	e40	e46	e42	e48	740	1470	244	23	33	29
25	7.8	73	e40	e44	e40	52	643	1410	224	23	33	28
26	7.8	202	e38	e44	e42	52	564	1200	206	22	31	27
27	9.8	139	e38	e42	e44	63	862	1180	186	22	31	27
28	56	99	e42	e32	e42	75	1320	1340	163	22	32	26
29	52	80	e42	e30	e40	70	944	1150	113	21	35	26
30	39	76	e40	e34	---	e70	939	938	106	21	34	25
31	31	---	e46	e44	---	68	---	767	---	21	35	---
TOTAL	418.2	1624	1485	1354	1226	1463	19019	39738	15082	1346	791	1213
MEAN	13.5	54.1	47.9	43.7	42.3	47.2	634	1282	503	43.4	25.5	40.4
MAX	56	202	72	50	48	75	1320	2090	1000	100	35	96
MIN	7.7	19	34	30	36	38	73	474	106	21	20	15
AC-FT	829	3220	2950	2690	2430	2900	37720	78820	29920	2670	1570	2410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2000, BY WATER YEAR (WY)

MEAN	36.4	111	116	107	76.2	114	438	1468	1200	190	63.0	53.3
MAX	74.7	278	399	389	130	202	634	1847	1718	265	92.7	85.9
(WY)	1996	1997	1996	1997	1996	1995	2000	1997	1999	1999	1997	1995
MIN	13.5	23.2	25.2	22.6	24.1	36.3	262	1282	503	43.4	25.5	22.9
(WY)	2000	1999	1999	1999	1999	1999	1999	2000	2000	2000	2000	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1995 - 2000	
ANNUAL TOTAL	117441.2		84759.2			
ANNUAL MEAN	322		232		332	
HIGHEST ANNUAL MEAN					416	1997
LOWEST ANNUAL MEAN					232	2000
HIGHEST DAILY MEAN	3240	May 26	2090	May 17	3560	May 15 1996
LOWEST DAILY MEAN	7.7	Oct 18	7.7	Oct 18	4.4	Oct 9 1994
ANNUAL SEVEN-DAY MINIMUM	7.7	Oct 18	7.7	Oct 18	4.7	Oct 4 1994
ANNUAL RUNOFF (AC-FT)	232900		168100		240300	
10 PERCENT EXCEEDS	1200		933		1080	
50 PERCENT EXCEEDS	50		44		80	
90 PERCENT EXCEEDS	15		20		24	

e Estimated

13238322 NORTH FORK PAYETTE RIVER BELOW FISHER CREEK NEAR MCCALL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1994 to current year.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT										
06...	0950	8.8	5.0	6.0	29	<.005	<.002	E.10	E.004	<.001
DEC										
01...	1015	73	.0	1.0	18	.042	<.002	.10	E.005	<.001
JAN										
12...	1307	451	-1.0	.5	21	.093	<.002	E.10	<.008	<.001
FEB										
29...	1054	50	1.0	.2	22	.115	<.002	E.10	E.004	.001
APR										
05...	1417	286	5.5	1.6	18	.141	<.002	.14	E.005	.002
MAY										
22...	1730	2080	22.0	6.7	8	.036	.009	.12	.009	<.001
JUN										
27...	1155	187	26.5	15.4	13	.005	.003	.13	E.007	<.001
AUG										
09...	1035	22	29.0	15.0	24	.010	.011	.40	<.008	.001

E Positive detection but below stated detection limit.

PAYETTE RIVER BASIN

13238500 PAYETTE LAKE AT MCCALL, ID

LOCATION.--Lat 44°54'50", long 116°07'10", in NW$^1/_4$ sec.8, T.18 N., R.3 E., Valley County, Hydrologic Unit 17050123, at outlet of lake, on North Fork Payette River at McCall, and at mile 75.4.

DRAINAGE AREA.--144 mi^2.

PERIOD OF RECORD.--August 1921 to current year (fragmentary prior to Nov. 23, 1943). Prior to October 1942, published as "at Lardo".

REVISED RECORDS.--WSP 753: 1931. WSP 1013: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,981.73 ft above sea level. Prior to Aug. 26, 1931, nonrecording gage at site 25 ft downstream at datum 3.0 ft higher. Aug. 26, 1931 to Nov. 22, 1943, nonrecording gage at site 75 ft downstream at datum 1.0 ft higher. November 23, 1943 to September 30, 1984, at present site at datum 1.0 ft higher.

REMARKS.--Station equipment includes satellite telemetry. Flow from Payette Lake is regulated within natural range by tainter gates and removable stoplogs of a buttress and slab-type dam completed in November 1943. During period 1923-43 lake was regulated by structure consisting of a series of concrete-filled cribs supporting removable flashboards. Some regulation is reported to have been affected by timber flashboards for several years prior to 1923. Lake area is approximately 5,000 acres. No capacity table has been developed. Water is used for irrigation in vicinity of Emmett. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 8.75 ft, July 13, 1935; minimum, 0.84 ft, Nov. 30, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum gage height recorded, 7.06 ft, June 30, July 1; minimum, 1.25 ft, Feb. 8, 11.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.11	2.18	1.59	1.34	1.31	1.43	1.47	3.89	4.71	7.03	6.02	4.78
2	4.06	2.11	1.62	1.33	1.31	1.41	1.50	4.22	4.84	7.01	5.98	4.88
3	4.01	2.07	1.59	1.34	1.29	1.39	1.55	4.40	5.04	6.99	5.94	4.87
4	3.96	---	1.57	1.40	1.30	1.39	1.64	4.56	5.23	6.95	5.93	4.88
5	3.92	---	1.54	1.38	1.30	1.38	1.75	4.54	5.39	6.94	5.87	4.94
6	3.87	---	1.55	1.38	1.28	1.38	1.81	4.36	5.52	6.90	5.84	4.93
7	3.82	---	1.54	1.38	1.29	1.39	1.86	4.17	5.66	6.87	5.78	4.93
8	3.76	---	1.51	1.37	1.28	1.38	1.90	4.12	5.89	6.86	5.74	4.88
9	3.70	1.57	1.53	1.39	1.26	1.40	1.98	4.08	6.01	6.80	5.71	4.89
10	3.65	1.54	1.51	1.44	1.26	1.39	2.12	4.04	6.18	6.76	5.66	4.91
11	3.57	1.51	1.52	1.43	1.28	1.41	2.28	3.84	6.29	6.74	5.62	4.89
12	3.50	1.45	1.53	1.40	1.34	1.41	2.46	3.63	6.69	6.72	5.56	4.87
13	3.43	1.42	1.55	1.40	1.32	1.39	2.86	3.46	6.89	6.67	5.52	4.85
14	3.37	1.40	1.57	1.39	1.39	1.40	3.09	3.37	6.91	6.64	5.48	4.83
15	3.29	1.37	1.57	1.42	1.39	1.39	3.15	3.43	6.90	6.58	5.43	4.79
16	3.20	1.34	1.60	1.43	1.38	1.40	3.17	3.72	6.89	6.56	5.41	4.74
17	3.13	1.41	1.58	1.41	1.36	1.39	3.15	4.16	6.85	6.53	5.35	4.70
18	3.05	1.40	1.57	1.38	1.35	1.43	3.21	4.43	6.88	6.50	5.30	4.66
19	2.97	1.39	1.54	1.37	1.33	1.42	3.31	4.58	6.91	6.48	5.25	4.63
20	2.89	1.39	1.54	1.37	1.33	1.40	3.44	4.62	6.95	6.45	5.19	4.59
21	2.81	1.37	1.50	1.36	1.32	1.39	3.64	4.73	6.99	6.42	5.15	4.57
22	2.73	1.35	1.48	1.36	1.34	1.38	3.87	4.90	6.99	6.38	5.12	4.51
23	2.66	1.33	1.46	1.36	1.39	1.43	3.90	4.93	6.95	6.34	5.06	4.45
24	2.59	1.35	1.45	1.35	1.38	1.41	3.79	4.82	6.95	6.31	5.06	4.41
25	2.51	1.43	1.44	1.37	1.37	1.42	3.68	4.72	6.93	6.27	5.02	4.38
26	2.44	1.54	1.40	1.36	1.38	1.41	3.54	4.65	6.97	6.24	4.99	4.34
27	2.38	1.58	1.38	1.35	1.45	1.41	3.56	4.61	7.00	6.20	4.95	4.30
28	2.45	1.59	1.37	1.33	1.44	1.45	3.77	4.65	7.03	6.15	4.91	4.25
29	2.38	1.57	1.38	1.32	1.43	1.46	3.79	4.66	7.03	6.13	4.87	4.22
30	2.34	1.57	1.35	1.33	---	1.47	3.76	4.71	7.05	6.09	4.85	4.16
31	2.26	---	1.34	1.30	---	1.46	---	4.73	---	6.06	4.82	---
MEAN	3.19	---	1.51	1.37	1.34	1.41	2.83	4.31	6.42	6.57	5.40	4.67
MAX	4.11	---	1.62	1.44	1.45	1.47	3.90	4.93	7.05	7.03	6.02	4.94
MIN	2.26	---	1.34	1.30	1.26	1.38	1.47	3.37	4.71	6.06	4.82	4.16

PAYETTE RIVER BASIN

13239000 NORTH FORK PAYETTE RIVER AT MCCALL, ID

LOCATION.--Lat 44°54'27", long 116°07'04", in NW¼SE¼SW¼ sec.8, T.18 N., R.3 E., Valley County, Hydrologic Unit 17050123, on left bank, at McCall, 0.2 mi downstream from outlet of Payette Lake, and at mile 75.2.

DRAINAGE AREA.--144 mi^2. Mean elevation, 6,520 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1908 to June 1917, May 1919 to current year. Prior to October 1942, published as "at Lardo".

REVISED RECORDS.--WSP 963: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,967.75 ft above sea level (levels by Idaho Fish and Game). Nonrecording gage at site 1 mi downstream at different datum prior to Oct. 14, 1908, and Oct.14, 1908 to Dec. 18, 1923, at sites near present gage at present datum.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated to some extent since several years prior to 1923 by gates at outlet of Payette Lake 0.2 mi upstream (see sta 13238500) and several smaller lakes upstream. Diversion for fish hatchery bypasses station and is returned below gage. Records of daily discharge of this diversion published in annual Water-Supply Papers from October 1942 to February 1953. Diversions since 1980 not comparable.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,950 ft^3/s June 19, 1974, gage height, 8.16 ft; no flow Nov. 5-8, 1931, Nov. 17-24, 1933, Nov. 14-27, 1935, Oct. 22 to Nov. 11, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,350 ft^3/s May 23, gage height, 5.85 ft; minimum, 53 ft^3/s Aug. 3, 4, 5, gage height, 2.08 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	195	124	81	77	97	114	1370	908	105	67	64
2	94	181	127	80	76	95	116	1570	630	163	67	65
3	105	167	129	80	74	92	122	1780	710	137	61	64
4	104	155	124	87	74	90	133	1940	800	136	53	64
5	103	151	120	92	73	88	157	1990	887	135	71	64
6	104	124	118	89	73	88	187	1900	962	135	76	64
7	119	147	120	89	71	89	204	1730	816	134	76	64
8	122	145	118	91	70	89	218	1630	489	133	75	64
9	139	135	115	93	68	89	235	1610	448	130	74	64
10	152	128	115	94	67	92	262	1590	311	111	74	64
11	166	124	115	98	69	94	291	1470	315	111	73	64
12	161	119	115	96	73	93	345	1310	430	111	73	64
13	159	114	119	95	80	91	446	1160	832	110	73	64
14	162	109	118	94	87	91	630	1050	889	109	72	64
15	163	103	125	95	91	90	766	1030	843	93	72	75
16	158	98	129	96	88	89	829	1140	717	84	71	82
17	155	94	130	95	85	91	853	1470	490	73	71	82
18	168	93	129	93	83	91	866	1780	338	73	70	82
19	193	90	125	90	80	96	918	1950	241	73	69	81
20	189	87	120	89	78	96	988	2040	148	73	69	80
21	185	87	116	87	78	94	1100	2060	197	73	68	80
22	181	84	111	87	77	92	1300	2210	359	72	67	79
23	174	81	107	84	83	96	1410	2320	463	71	67	76
24	171	77	102	84	89	97	1370	2250	375	71	67	74
25	184	79	98	86	88	97	1290	2160	278	71	66	85
26	197	99	95	86	86	97	1190	1910	141	70	66	93
27	191	117	93	84	95	97	1130	1720	127	69	65	93
28	195	123	91	81	101	102	1260	1720	101	69	64	93
29	192	124	88	79	99	108	1350	1650	101	69	64	103
30	191	123	86	76	---	109	1330	1180	101	68	64	126
31	202	---	84	76	---	111	---	1080	---	67	64	---
TOTAL	4863	3553	3506	2727	2333	2931	21410	51770	14447	2999	2129	2281
MEAN	157	118	113	88.0	80.4	94.5	714	1670	482	96.7	68.7	76.0
MAX	202	195	130	98	101	111	1410	2320	962	163	76	126
MIN	84	77	84	76	67	88	114	1030	101	67	53	64
AC-FT	9650	7050	6950	5410	4630	5810	42470	102700	28660	5950	4220	4520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2000, BY WATER YEAR (WY)

MEAN	113	92.3	97.1	93.4	94.9	105	337	1368	1445	320	154	121
MAX	599	385	586	453	416	348	1289	2596	3436	1157	527	316
(WY)	1963	1974	1996	1997	1963	1986	1934	1997	1974	1916	1943	1980
MIN	.54	.48	1.00	1.00	1.00	1.26	5.94	240	169	20.5	23.5	13.8
(WY)	1944	1932	1936	1936	1937	1937	1977	1977	1931	1961	1956	1958

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1908 - 2000	
ANNUAL TOTAL	169549		114949			
ANNUAL MEAN	465		314		364	
HIGHEST ANNUAL MEAN					655	1974
LOWEST ANNUAL MEAN					122	1977
HIGHEST DAILY MEAN	4180	May 30	2320	May 23	4840	Jun 20 1974
LOWEST DAILY MEAN	68	Jan 12	53	Aug 4	.00	Nov 17 1933
ANNUAL SEVEN-DAY MINIMUM	69	Jan 8	64	Sep 3	.00	Nov 17 1933
ANNUAL RUNOFF (AC-FT)	336300		228000		263500	
10 PERCENT EXCEEDS	1620		1130		1170	
50 PERCENT EXCEEDS	124		101		116	
90 PERCENT EXCEEDS	79		69		22	

13239000 NORTH FORK PAYETTE RIVER AT MCCALL, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974-1981, 1992, October 1994 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June to September 1998 (discontinued).

INSTRUMENTATION.--Temperature recording data logger

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 25.2 °C Aug. 13, 1998.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT										
06...	1310	103	9.0	12.0	17	<.005	.004	.12	E.005	<.001
DEC										
01...	1345	126	2.0	6.0	18	.044	.002	.10	<.008	<.001
JAN										
12...	1605	95	-2.5	3.2	19	.084	<.002	E.10	E.004	<.001
FEB										
29...	1510	99	2.5	2.8	18	.078	.004	.14	E.007	.002
APR										
05...	1743	170	7.0	4.0	20	.082	<.002	.17	.009	.005
MAY										
23...	0900	2340	13.0	11.2	18	.034	.008	.15	E.006	<.001
JUN										
27...	1800	101	30.0	19.2	17	<.005	.006	.14	E.004	<.001
AUG										
09...	1400	74	30.0	23.8	17	<.005	.019	.14	<.008	.004

E Positive detection but below stated detection limit.

PAYETTE RIVER BASIN

13240000 LAKE FORK PAYETTE RIVER ABOVE JUMBO CREEK, NEAR MCCALL, ID

LOCATION.--Lat 44°54'49", long 115°59'47", in SW¼SE¼NW¼ sec.8, T.18 N., R.4 E., Valley County, Hydrologic Unit 17040123, on left bank, 100 ft upstream from abandoned powerplant, 0.2 mi upstream from Jumbo Creek, 3.5 mi upstream from Lake Fork Reservoir dam, 5.5 mi east of McCall, and at mile 21.0.

DRAINAGE AREA.--48.9 mi^2. Mean elevation, 6,950 ft.

PERIOD OF RECORD.--October 1945 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,140 ft above sea level, from topographic map. Prior to Nov. 10, 1945, nonrecording gage at site 200 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion above station. Flow partially regulated by Browns Pond, capacity 1,230 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,770 ft^3/s June 21, 1971, gage height, 9.15 ft, from rating curve extended above 1,200 ft^3/s; minimum, 0.82 ft^3/s Sept. 7, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,470 ft^3/s June 13, gage height, 7.92 ft; minimum, 1.4 ft^3/s Aug. 13, gage height, 1.29 ft, from regulation at Browns Pond; minimum daily, 6.4 ft^3/s Aug. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	19	e48	e32	e32	e28	e46	449	384	148	28	14
2	14	18	e44	e30	e32	e28	e48	651	388	142	27	25
3	14	18	e36	e28	e30	e28	e55	665	513	130	26	30
4	14	18	e26	e30	e28	e30	e80	748	594	117	26	22
5	14	29	e30	e30	e28	e30	e120	614	681	105	26	35
6	14	51	e38	e28	e28	e32	e120	497	694	98	25	39
7	16	39	e36	e30	e26	e32	114	406	679	91	23	26
8	15	31	e30	e30	e28	e30	117	408	671	86	23	21
9	14	27	e32	e30	e28	e32	145	412	521	86	22	19
10	14	26	e34	e30	e26	e30	169	403	424	81	21	18
11	14	27	e32	e32	e28	e32	207	324	381	75	20	23
12	13	28	e34	e30	e26	e28	258	283	663	71	9.0	20
13	13	27	e30	e28	e28	e32	430	264	970	67	6.4	18
14	13	25	e32	e30	e32	e32	454	261	625	63	16	16
15	13	23	e32	e32	e30	e30	322	305	622	177	17	15
16	13	22	e32	e32	e28	e30	287	385	506	229	17	14
17	13	24	e34	e30	e26	e32	265	568	394	90	17	14
18	13	24	e36	e28	e24	e30	290	624	362	54	16	14
19	13	22	e32	e28	e26	e34	316	670	356	51	16	14
20	13	25	e32	e30	e28	e30	339	673	307	48	16	14
21	13	20	e32	e28	e32	e28	477	738	295	46	16	14
22	13	23	e24	e28	e30	e32	577	921	301	43	15	14
23	12	21	e24	e26	e30	e36	507	886	289	40	15	13
24	12	21	e26	e30	e30	e34	365	736	256	39	14	13
25	12	26	e26	e30	e28	e34	312	737	239	37	14	13
26	12	202	e26	e30	e28	e36	283	685	221	35	14	13
27	14	124	e28	e28	e30	e40	307	638	154	34	13	13
28	51	71	e28	e24	e30	e44	512	745	13	32	13	12
29	38	59	e28	e20	e28	e42	419	703	97	31	13	12
30	26	e50	e26	e26	---	e40	373	575	149	30	13	12
31	22	---	e30	e28	---	e42	---	481	---	29	12	---
TOTAL	500	1140	978	896	828	1018	8314	17455	12749	2405	549.4	540
MEAN	16.1	38.0	31.5	28.9	28.6	32.8	277	563	425	77.6	17.7	18.0
MAX	51	202	48	32	32	44	577	921	970	229	28	39
MIN	12	18	24	20	24	28	46	261	13	29	6.4	12
AC-FT	992	2260	1940	1780	1640	2020	16490	34620	25290	4770	1090	1070
CFSM	.33	.78	.65	.59	.58	.67	5.67	11.5	8.69	1.59	.36	.37
IN.	.38	.87	.74	.68	.63	.77	6.32	13.28	9.70	1.83	.42	.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2000, BY WATER YEAR (WY)

MEAN	31.8	45.0	41.3	36.7	34.5	41.0	152	532	593	163	33.4	22.6
MAX	180	182	189	170	86.9	103	310	922	1262	406	70.1	68.4
(WY)	1963	1974	1996	1997	1963	1995	1990	1997	1974	1974	1983	1959
MIN	7.72	9.80	10.2	12.4	12.1	12.5	21.2	152	113	29.5	10.3	5.70
(WY)	1992	1994	1953	1977	1977	1977	1975	1977	1992	1977	1994	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1946 - 2000	
ANNUAL TOTAL	60446		47372.4			
ANNUAL MEAN	166		129		144	
HIGHEST ANNUAL MEAN					242	1974
LOWEST ANNUAL MEAN					48.7	1977
HIGHEST DAILY MEAN	1490	May 29	970	Jun 13	2070	Jun 16 1974
LOWEST DAILY MEAN	12	Oct 23	6.4	Aug 13	.94	Sep 6 1994
ANNUAL SEVEN-DAY MINIMUM	12	Oct 20	12	Oct 20	3.2	Sep 4 1994
ANNUAL RUNOFF (AC-FT)	119900		93960		104300	
ANNUAL RUNOFF (CFSM)	3.39		2.65		2.95	
ANNUAL RUNOFF (INCHES)	45.98		36.04		40.02	
10 PERCENT EXCEEDS	563		461		484	
50 PERCENT EXCEEDS	30		30		39	
90 PERCENT EXCEEDS	15		14		15	

e Estimated

PAYETTE RIVER BASIN

13245000 NORTH FORK PAYETTE RIVER AT CASCADE, ID

LOCATION.--Lat 44°31'30", long 116°02'45" in $SW^1/_4NW^1/_4NW^1/_4$ sec.25, T.14 N., R.3 E., Valley County, Hydrologic Unit 17050123, 0.2 mi downstream from Cascade Dam, and at mile 40.0.

DRAINAGE AREA.--620 mi^2. Mean elevation, 5,960 ft.

PERIOD OF RECORD.--May 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,720.00 ft above sea level. May 1941 to Jan. 28, 1947 (nonrecording gage), Jan. 29, 1947 to Nov. 5, 1958, Oct. 1, 1965 to Sept. 30, 1982, at site 1.4 mi downstream at datum 4,725.31 ft above sea level; Nov. 6, 1958 to Sept. 30, 1965, at site 0.1 mi upstream at datum 4,734.59 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Payette Lake (see sta 13238500), Lake Fork Reservoir and Cascade Reservoir 0.2 mi upstream, beginning November 1947 (sta 13244500). Diversions above station for irrigation of about 39,000 acres, (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,320 ft^3/s May 10, 1947, gage height, 6.29 ft, site and datum then in use; no flow for part of Oct. 14, 1971, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,800 ft^3/s June 14; minimum daily, 190 ft^3/s Oct. 24, Jan. 25-27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	900	216	1070	215	202	205	1010	1070	2200	1330	1830	2030
2	848	219	1070	212	199	206	1020	858	2130	1510	1830	2030
3	850	218	755	211	201	206	1020	785	1990	1630	1840	2030
4	846	216	299	214	203	207	1020	628	1990	1630	1830	2020
5	823	217	968	211	203	208	1010	567	2060	1650	1820	2170
6	703	216	1070	211	203	406	1010	567	2190	1640	1820	2220
7	533	216	1060	211	203	674	1010	568	2590	1620	1830	2220
8	452	215	1060	212	204	901	1000	584	2500	1620	1820	2200
9	386	215	1070	212	205	1000	1000	588	1890	1630	1820	2180
10	438	218	1060	213	204	1010	999	330	1500	1630	1830	2180
11	507	530	1060	212	205	1020	1070	196	1550	1630	1840	2200
12	549	753	1070	216	207	1020	1090	193	1710	1630	1840	2210
13	533	758	1060	217	207	1010	1090	193	2470	1630	1830	2200
14	388	768	1080	216	480	1020	1090	193	2800	1720	1830	2200
15	194	769	1070	217	661	1010	1090	199	2330	1780	1950	2200
16	202	927	1070	217	208	1010	1070	199	2170	1780	2040	2220
17	202	1060	1070	216	209	1010	1350	343	2010	1780	2050	2210
18	201	1070	1070	217	209	1020	1500	607	1500	1790	2040	2220
19	200	1060	1070	214	209	1010	1500	872	1520	1790	2040	2200
20	199	1060	865	211	209	1010	1500	1010	1530	1820	2040	2200
21	200	1070	742	209	208	1010	1500	1020	1520	1840	2040	2190
22	200	1070	540	210	210	1010	1500	1250	1520	1830	2040	2060
23	195	1070	295	206	212	1010	1490	1880	1530	1830	2040	1990
24	190	1060	207	199	209	1020	1500	2390	1530	1830	2040	1990
25	201	1060	210	190	209	1010	1500	2680	1520	1830	2040	1740
26	209	1060	212	190	204	1000	1500	2350	1380	1840	2030	1480
27	218	1060	214	190	203	1000	1500	1840	1310	1820	2030	1260
28	220	1050	210	199	203	1010	1310	1510	1320	1820	2030	1090
29	218	1060	213	198	204	1020	1220	1830	1320	1820	2030	1050
30	218	1070	215	198	---	1010	1230	2120	1320	1820	2040	1060
31	217	---	214	199	---	1010	---	2210	---	1830	2040	---
TOTAL	12240	21551	23239	6463	6693	26273	36699	31630	54900	53350	60170	59250
MEAN	395	718	750	208	231	848	1223	1020	1830	1721	1941	1975
MAX	900	1070	1080	217	661	1020	1500	2680	2800	1840	2050	2220
MIN	190	215	207	190	199	205	999	193	1310	1330	1820	1050
AC-FT	24280	42750	46090	12820	13280	52110	72790	62740	108900	105800	119300	117500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2000, BY WATER YEAR (WY)

MEAN	668	401	566	614	652	802	1064	1240	1869	1356	1609	1411
MAX	1353	1093	1789	2679	3138	2835	3639	4668	4282	2623	2513	2475
(WY)	1955	1951	1996	1997	1997	1974	1943	1947	1943	1952	1957	1973
MIN	134	12.3	3.00	144	136	126	102	74.5	117	513	389	136
(WY)	1978	1949	1948	1980	1980	1977	1957	1962	1962	1944	1947	1944

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1942 - 2000	
ANNUAL TOTAL	489549		392458			
ANNUAL MEAN	1341		1072		1022	
HIGHEST ANNUAL MEAN					1598	1996
LOWEST ANNUAL MEAN					510	1988
HIGHEST DAILY MEAN	3700	Jun 21	2800	Jun 14	7150	May 11 1947
LOWEST DAILY MEAN	190	Oct 24	190	Oct 24	2.0	Jan 1 1948
ANNUAL SEVEN-DAY MINIMUM	197	Feb 1	195	Jan 24	2.1	Dec 31 1947
ANNUAL RUNOFF (AC-FT)	971000		778400		740200	
10 PERCENT EXCEEDS	2710		2040		2270	
50 PERCENT EXCEEDS	1290		1040		731	
90 PERCENT EXCEEDS	215		204		176	

PAYETTE RIVER BASIN

13246000 NORTH FORK PAYETTE RIVER NEAR BANKS, ID

LOCATION.--Lat 44°06'50", long 116°06'25", in NW¼SE¼ sec.16, T.9 N., R.3 E., Boise County, Hydrologic Unit 17050123, Boise National Forest, on right bank, 300 ft downstream from highway bridge, 2.5 mi north of Banks, and at mile 2.8.

DRAINAGE AREA.--933 mi^2. Mean elevation, 5,800 ft.

PERIOD OF RECORD.--April 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,081.13 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Payette Lake (sta 13238500), Lake Fork Reservoir, and Cascade Reservoir 37.1 mi upstream, beginning November 1947 (see sta. 13244500). Diversions above station for irrigation of about 50,800 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,830 ft^3/s May 11, 1947, gage height, 13.50 ft, estimated on basis of records for station near Smiths Ferry; minimum recorded discharge, 36 ft^3/s Dec. 21, 1947, gage height, 3.01 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,350 ft^3/s May 26, gage height, 9.18 ft; minimum daily, 220 ft^3/s Dec. 28, 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	979	302	1190	332	344	470	1540	1890	2680	1340	1690	e1800
2	916	300	1190	325	334	464	1660	1770	2670	1340	1670	e1800
3	896	304	1150	292	331	462	1820	1620	2490	1610	1680	e1800
4	899	304	628	304	334	459	1820	1610	2420	1630	1650	e1800
5	898	324	600	e280	341	485	1900	1400	2430	1640	e1600	e1800
6	874	338	1130	e260	339	538	1740	1380	2600	1650	e1600	e1900
7	716	319	1140	e280	339	883	1600	1280	2720	1620	e1600	e2000
8	637	308	1120	e320	335	1110	1560	1240	3200	1600	e1600	e2000
9	537	305	1130	e340	332	1290	1600	1290	2630	1600	e1600	e2000
10	515	305	1130	e340	332	1270	1600	1290	1910	1590	e1600	e2000
11	557	314	1130	e340	343	1260	1640	933	1800	1580	e1600	e2000
12	627	673	1130	e340	357	1240	1760	853	1930	1570	e1600	e2000
13	630	777	1160	337	353	1220	1960	789	2670	1560	e1600	e2000
14	617	800	1140	369	374	1260	2160	746	3200	1560	e1600	e2000
15	444	806	1150	390	863	1310	1960	745	3110	1700	e1600	e2000
16	326	812	1150	398	609	1320	1870	759	2540	1710	e1700	e2000
17	327	1060	1150	403	412	1280	1860	829	2480	1700	e1800	e2000
18	328	1100	1160	393	e320	1240	2200	1050	1980	1700	e1800	e2000
19	325	1100	1150	389	e340	1340	2230	1280	1730	1700	e1800	e2000
20	319	1140	1130	391	e360	1340	2240	1550	1720	1700	e1800	e2000
21	314	1120	866	391	399	1280	2320	1600	1690	1740	e1800	1980
22	308	1110	e750	380	400	1280	2400	1660	1680	1730	e1800	1960
23	298	1090	e550	365	438	1480	2420	2110	1670	1730	e1800	1780
24	277	1110	e340	363	443	1560	2290	2750	1660	1720	e1800	1770
25	258	1220	e300	357	414	1490	2210	3290	1640	1710	e1800	1740
26	271	1800	e280	347	420	1540	2230	3310	1600	1720	e1800	1370
27	285	1450	e240	288	441	1640	2210	2700	1380	1700	e1800	1180
28	361	1230	e220	e260	482	1750	2280	2170	1370	1680	e1800	995
29	370	1190	e220	e260	473	1610	1980	2120	1360	1680	e1800	882
30	322	1180	e260	303	---	1460	1890	2540	1350	1670	e1800	867
31	307	---	325	325	---	1470	---	2710	---	1680	e1800	---
TOTAL	15738	24191	26209	10462	11602	36801	58950	51264	64310	50860	52990	53424
MEAN	508	806	845	337	400	1187	1965	1654	2144	1641	1709	1781
MAX	979	1800	1190	403	863	1750	2420	3310	3200	1740	1800	2000
MIN	258	300	220	260	320	459	1540	745	1350	1340	1600	867
AC-FT	31220	47980	51990	20750	23010	72990	116900	101700	127600	100900	105100	106000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2000, BY WATER YEAR (WY)

MEAN	815	511	713	800	884	1170	1779	2022	2413	1562	1753	1585
MAX	1435	1256	1983	3632	3763	3545	3759	4303	5286	2948	2559	2521
(WY)	1955	1951	1996	1997	1997	1974	1971	1952	1953	1982	1957	1969
MIN	194	109	89.5	237	250	223	443	470	407	702	439	328
(WY)	1978	1949	1948	1989	1989	1977	1991	1992	1988	1986	1947	1948

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1947 - 2000	
ANNUAL TOTAL	629184		456801			
ANNUAL MEAN	1724		1248		1339	
HIGHEST ANNUAL MEAN					2186	1997
LOWEST ANNUAL MEAN					645	1988
HIGHEST DAILY MEAN	4770	Jun 21	3310	May 26	7990	Jun 29 1971
LOWEST DAILY MEAN	220	Dec 28	220	Dec 28	50	Nov 23 1947
ANNUAL SEVEN-DAY MINIMUM	264	Dec 25	264	Dec 25	69	Dec 14 1948
ANNUAL RUNOFF (AC-FT)	1248000		906100		969800	
10 PERCENT EXCEEDS	3270		2000		2770	
50 PERCENT EXCEEDS	1520		1290		1050	
90 PERCENT EXCEEDS	347		323		297	

e Estimated

PAYETTE RIVER BASIN

13247500 PAYETTE RIVER NEAR HORSESHOE BEND, ID

LOCATION.--Lat 43°56'33", long 116°11'45", in NE¼SE¼ sec.15, T.7 N., R.2 E., Boise County, Hydrologic Unit 17050122, on left bank 0.5, mi downstream from Porter Creek, 0.6 mi upstream from concrete highway bridge on State Highway 55, 2 mi north of Horseshoe Bend, and at mile 60.8.

DRAINAGE AREA.--2,230 mi^2, approximately. Mean elevation, 5,850 ft.

PERIOD OF RECORD.--February 1906 to September 1916, July 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 533: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,625.61 ft above sea level. Prior to Nov. 23, 1912, nonrecording gage at site 1.8 mi upstream at different datum. Nov. 23, 1912 to Apr. 16, 1953, water-stage recorder at site 1,000 ft downstream at datum 2.1 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by Deadwood Reservoir beginning November 1930 (sta 13236000), Cascade Reservoir, 51.9 mi upstream, beginning November 1947 (sta 13244500) and other reservoirs upstream. Diversions above station for irrigation of about 55,100 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,000 ft^3/s Dec. 23, 1964, gage height, 16.35 ft; minimum daily, 260 ft^3/s Nov. 14, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,560 ft^3/s May 25, gage height, 9.66 ft; minimum, 775 ft^3/s Jan. 29, gage height, 2.72 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1700	999	2060	1220	1160	1820	3220	5730	6650	3240	2990	3210
2	1640	978	2040	1140	1120	1800	3470	5800	6380	3190	2960	3440
3	1600	976	1960	1030	1100	1760	4040	5930	6190	3400	2940	3550
4	1600	975	1430	1020	1050	1780	4400	6150	6230	3420	2920	3400
5	1600	1020	1100	1020	1080	1920	5210	6090	6430	3360	2910	3300
6	1570	1070	1900	1030	1070	2150	4900	5790	6740	3340	2890	3030
7	1480	1020	1980	933	1070	2590	4360	5320	6860	3270	2870	2850
8	1340	986	1920	1130	1070	2740	4140	4980	7300	3220	2860	2810
9	1250	974	1880	1110	1090	2840	4340	4860	6710	3170	2840	2760
10	1190	967	1910	1080	1130	2710	4590	4840	5690	3130	2830	2740
11	1230	977	1910	1190	1190	2640	4800	4300	5200	3090	2810	2790
12	1280	1260	1900	1220	1330	2530	5100	3960	5210	3050	2840	2810
13	1300	1460	2010	1100	1340	2450	e5500	3720	6830	3010	2820	2770
14	1290	1470	1920	1120	e1500	2540	e7000	3550	6940	2970	2800	2640
15	1150	1480	1930	1210	2020	2630	e6500	3550	6680	3070	2830	2560
16	976	1480	1950	1360	1890	2630	e6000	3610	6030	3090	3120	2570
17	976	1710	1950	1340	1480	2590	e5500	3830	5660	3060	3140	2600
18	983	1820	1970	1260	1360	2460	e5500	4210	4980	3070	3140	2600
19	987	1780	1960	1220	1250	2700	e6000	4770	4500	3050	3120	2600
20	974	1850	1920	1230	e1300	2670	e6000	5230	4380	3010	3110	2560
21	964	1870	1650	1230	e1300	2540	6600	5520	4220	3020	3110	2560
22	956	1800	1520	1200	1370	2530	7050	5980	4160	2990	3110	2560
23	946	1730	1200	1140	1630	2950	7050	6920	4110	2970	3100	2390
24	925	1750	1020	1140	1820	3190	6430	7720	4020	2940	3140	2360
25	898	2000	961	1140	1650	3060	5980	8380	3970	2910	3190	2350
26	905	3300	984	1130	1580	3100	5830	8310	3840	2910	3170	2030
27	926	3050	1020	1030	1730	3370	5650	7480	3520	2890	3160	1840
28	1170	2240	1020	889	1940	3820	6180	6980	3440	2930	3150	1660
29	1420	2060	973	847	1880	3620	6050	6970	3390	3010	3140	1520
30	1100	2010	935	865	---	3270	5750	7130	3310	2990	3140	1480
31	1030	---	977	986	---	3140	---	7020	---	2990	3140	---
TOTAL	37356	47062	49860	34560	40500	82540	163140	174630	159570	95760	93290	78340
MEAN	1205	1569	1608	1115	1397	2663	5438	5633	5319	3089	3009	2611
MAX	1700	3300	2060	1360	2020	3820	7050	8380	7300	3420	3190	3550
MIN	898	967	935	847	1050	1760	3220	3550	3310	2890	2800	1480
AC-FT	74100	93350	98900	68550	80330	163700	323600	346400	316500	189900	185000	155400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 2000, BY WATER YEAR (WY)

MEAN	1323	1247	1403	1432	1625	2469	5181	8027	7964	3644	2537	2066
MAX	2248	3618	3996	7281	6208	6919	13610	16060	16090	8235	3774	3374
(WY)	1984	1910	1996	1997	1997	1910	1943	1928	1927	1916	1993	1982
MIN	541	583	597	602	647	794	1650	2053	1765	907	643	610
(WY)	1936	1932	1936	1932	1932	1977	1991	1977	1924	1924	1924	1924

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1907 - 2000	
ANNUAL TOTAL	1484298		1056608			
ANNUAL MEAN	4067		2887		3249	
HIGHEST ANNUAL MEAN					5501	1997
LOWEST ANNUAL MEAN					1463	1931
HIGHEST DAILY MEAN	13000	Jun 18	8380	May 25	21700	Jun 9 1921
LOWEST DAILY MEAN	898	Oct 25	847	Jan 29	260	Nov 14 1979
ANNUAL SEVEN-DAY MINIMUM	931	Oct 21	931	Oct 21	445	Nov 10 1979
ANNUAL RUNOFF (AC-FT)	2944000		2096000		2353000	
10 PERCENT EXCEEDS	9040		5980		7840	
50 PERCENT EXCEEDS	3280		2640		1980	
90 PERCENT EXCEEDS	1120		1020		850	

e Estimated

PAYETTE RIVER BASIN

13249500 PAYETTE RIVER NEAR EMMETT, ID

LOCATION.--Lat 43°55'50", long 116°26'30", in SW¼NE¼ sec.22, T.7 N., R.1 W., Gem County, Hydrologic Unit 17050122, on right bank, 0.3 mi downstream from Black Canyon Dam, 5 mi northeast of Emmett, and at mile 38.4.

DRAINAGE AREA.--2,680 mi^2, approximately.

PERIOD OF RECORD.--June 1925 to current year.

REVISED RECORDS.--WSP 1153: 1946(m), 1948(m).

GAGE.--Water-stage recorder. Datum of gage is 2,400.32 ft above sea level (levels by U.S Bureau of Reclamation).

REMARKS.--No estimated daily discharges. Records good except for discharges below 400 ft^3/s, which are poor. Station equipment includes satellite telemetry. Flow regulated by Deadwood Reservoir beginning November 1930 (see sta 13236000), Cascade Reservoir beginning November 1947 (see sta 13244500), other smaller reservoirs, and to some extent by Black Canyon Dam 0.3 mi upstream where flow is regulated by diversion and gate operation at dam. Diversions above station for irrigation of about 160,000 acres, of which about 43,700 acres are below station and about 53,000 acres are in adjacent basins (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,700 ft^3/s Dec. 23, 1964, gage height, 15.88 ft; minimum daily, 0.7 ft^3/s Jan. 7, 1957, gage height, -1.49 ft, when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,100 ft^3/s Apr. 14, gage height, 7.11 ft; minimum, 8.1 ft^3/s Oct. 26, gage height, -0.81 ft, result of dam operation; minimum daily, 567 ft^3/s Oct. 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	697	1200	2180	1280	1380	2760	3720	5180	5930	1690	1410	1730
2	756	1180	2170	1300	1410	2570	3870	5200	5320	1640	1400	2130
3	684	1170	2120	1230	1320	2430	4600	5410	5120	1800	1380	2270
4	695	1170	1760	1110	1290	2380	5090	5540	5070	1880	1380	2110
5	694	1190	1250	1130	1290	2520	5930	5490	5150	1800	1340	2160
6	723	1250	1520	1110	1360	2830	5740	5190	5460	1810	1360	2020
7	790	1250	2160	1110	1400	3450	4840	4620	5660	1760	1330	1800
8	751	1190	2100	1140	1390	3510	4220	4190	6220	1680	1310	1800
9	677	1170	1960	1280	1360	3530	4490	4060	5740	1640	1280	1790
10	567	1090	2000	1250	1440	3460	4750	4080	4560	1590	1280	1740
11	592	1070	2000	1390	1600	3260	4950	3600	3890	1540	1250	1800
12	590	1190	1990	1600	1970	3210	5180	3150	3780	1530	1280	1880
13	601	1520	2100	1280	2150	2970	5900	3050	5690	1450	1280	1830
14	783	1540	2130	1390	2850	3000	7580	2700	5840	1430	1270	1750
15	1090	1560	2060	1610	3320	3150	6620	2710	5560	1460	1280	1620
16	1000	1390	2100	2280	2940	3160	5960	2740	4790	1520	1490	1540
17	981	1460	2160	2090	2090	3210	5580	2990	4410	1530	1600	1600
18	994	1580	2160	1760	1860	2940	5630	3340	3760	1520	1550	1600
19	994	1570	2170	1600	1680	3220	5920	3870	3150	1460	1540	1610
20	1070	1550	2050	1590	1600	3340	6090	4370	2880	1510	1550	1570
21	1160	1600	1870	1590	1640	3050	6560	4680	2800	1460	1540	1580
22	1160	1630	1700	1560	1760	3010	7190	5130	2660	1470	1550	1580
23	1170	1680	1420	1430	2930	3400	7220	6030	2610	1380	1540	1500
24	1150	1660	1140	1400	3240	3850	6470	6900	2520	1380	1550	1500
25	1090	1650	1100	1390	2430	3730	5820	7500	2450	1370	1660	1470
26	862	2010	1090	1460	2270	3660	5550	7500	2340	1380	1660	1210
27	1220	3510	1040	1440	3290	3870	5300	6710	2060	1340	1680	1000
28	1290	2530	1080	1140	3830	4430	5780	5910	1940	1350	1650	735
29	1630	2250	1110	1000	3060	4430	5770	6060	1870	1450	1660	600
30	1420	2170	996	964	---	3980	5390	6130	1770	1450	1650	597
31	1250	---	1080	1180	---	3700	---	5970	---	1450	1700	---
TOTAL	29131	46980	53766	43084	60150	102010	167710	150000	121000	47720	45400	48122
MEAN	940	1566	1734	1390	2074	3291	5590	4839	4033	1539	1465	1604
MAX	1630	3510	2180	2280	3830	4430	7580	7500	6220	1880	1700	2270
MIN	567	1070	996	964	1290	2380	3720	2700	1770	1340	1250	597
AC-FT	57780	93180	106600	85460	119300	202300	332700	297500	240000	94650	90050	95450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2000, BY WATER YEAR (WY)

MEAN	1218	1354	1647	1738	2074	3000	5223	7260	6845	2398	1561	1410
MAX	2073	3484	4159	8402	6846	8334	15060	16690	16450	6425	2253	2266
(WY)	1963	1928	1996	1997	1997	1986	1943	1928	1927	1982	1976	1982
MIN	454	681	597	636	730	845	956	837	870	569	447	413
(WY)	1936	1932	1936	1937	1932	1977	1977	1977	1977	1931	1926	1926

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1925 - 2000	
ANNUAL TOTAL	1357255		915073			
ANNUAL MEAN	3719		2500		2978	
HIGHEST ANNUAL MEAN					5259	1997
LOWEST ANNUAL MEAN					1005	1977
HIGHEST DAILY MEAN	12200	May 30	7580	Apr 14	26500	Jan 2 1997
LOWEST DAILY MEAN	548	Sep 26	567	Oct 10	.70	Jan 7 1957
ANNUAL SEVEN-DAY MINIMUM	618	Sep 20	652	Oct 8	83	Jan 2 1957
ANNUAL RUNOFF (AC-FT)	2692000		1815000		2157000	
10 PERCENT EXCEEDS	8790		5470		7410	
50 PERCENT EXCEEDS	2160		1720		1830	
90 PERCENT EXCEEDS	858		1110		822	

PAYETTE RIVER BASIN

13250000 PAYETTE RIVER NEAR LETHA, ID

LOCATION.--Lat 43°53'47", long 116°37'33", in SE¼SW¼SW¼ sec.31, T.7 N., R.2 W., Gem County, Hydrologic Unit 17050122, on left bank just upstream from county road bridge, 1.1 mi east of Letha, and at mile 25.

DRAINAGE AREA.--2,760 mi^2, approximately.

PERIOD OF RECORD.--October 1978 to September 1983, October 1983 to September 1986 (irrigation season only), May 1994 to current year. July to November 1952, March to November 1953, at site 0.6 mi upstream not equivalent due to inflow between sites.

GAGE.--Water-stage recorder. Elevation of gage is 2,280 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Deadwood Reservoir (sta 13236000), Cascade Reservoir (sta 13244500), and to some extent by Black Canyon Dam about 13.5 mi upstream. Diversions above station for irrigation of about 190,000 acres, of which 50,000 acres are located below station. About 53,000 acres are in adjacent basins (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 27,000 ft^3/s Jan. 2, 1997; minimum, 51 ft^3/s June 11, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,940 ft^3/s Apr. 14, gage height, 12.74 ft; minimum daily, 202 ft^3/s Oct. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	270	1000	2190	1240	1300	2840	3680	4350	4910	1040	657	1200
2	328	1180	2200	1320	1410	2630	3770	4330	4400	991	680	1570
3	289	1170	2210	1230	1300	2460	4250	4510	4230	1060	653	1830
4	259	1180	1880	1130	1270	2410	4700	4570	4140	1150	637	1720
5	276	1170	1380	1100	1260	2490	5280	4550	4170	1100	626	1720
6	296	1240	1380	1150	1300	2780	5310	4340	4420	1090	640	1650
7	311	1270	2160	1090	1370	3340	4590	3880	4650	1070	604	1330
8	344	1210	2170	1100	1380	3500	3890	3480	4980	1000	585	1350
9	315	1160	2020	1280	1320	3510	4020	3330	4840	949	567	1330
10	216	1120	2040	1240	1380	3480	4270	3320	3880	916	555	1270
11	202	1110	2050	1360	1530	3260	4410	2950	3160	853	533	1300
12	204	1150	2050	1620	1870	3230	4510	2480	2930	838	560	1410
13	208	1550	2110	1340	2180	3000	5020	2350	4480	745	564	1380
14	261	1590	2190	1360	2620	2940	6530	2020	4810	717	554	1370
15	639	1630	2100	1550	3340	3130	5830	2020	4600	695	546	1160
16	614	1490	2140	2160	3100	3140	5220	2030	4050	788	723	1100
17	544	1490	2190	2240	2160	3210	4870	2230	3650	805	908	1130
18	554	1640	2210	1820	1910	2940	4830	2510	3110	772	867	1140
19	577	1670	2210	1630	1710	3110	5070	3040	2410	717	882	1140
20	589	1610	2090	1600	1600	3350	5180	3480	2170	763	868	1100
21	683	1650	1960	1590	1630	3050	5450	3780	2050	666	887	1100
22	692	1690	1740	1580	1740	2920	6070	4100	1920	741	878	1130
23	676	1730	1510	1450	2690	3300	6200	4800	1840	667	880	1120
24	666	1730	1170	1400	3370	3780	5600	5570	1780	633	896	1010
25	625	1730	1100	1380	2530	3700	4970	6130	1700	630	1020	1040
26	442	1810	1080	1430	2260	3620	4690	6280	1660	621	1050	850
27	666	3560	1030	1470	3030	3730	4480	5690	1420	581	1070	596
28	819	2650	1070	1190	3960	4150	4770	4950	1220	573	1060	436
29	1120	2280	1090	1010	3150	4330	4900	5000	1100	697	1080	271
30	1060	2200	1020	951	---	3970	4540	5030	1030	712	1090	262
31	856	---	1010	1100	---	3670	---	4960	---	735	1150	---
TOTAL	15601	47660	54750	43111	59670	100970	146900	122060	95710	25315	24270	35015
MEAN	503	1589	1766	1391	2058	3257	4897	3937	3190	817	783	1167
MAX	1120	3560	2210	2240	3960	4330	6530	6280	4980	1150	1150	1830
MIN	202	1000	1010	951	1260	2410	3680	2020	1030	573	533	262
AC-FT	30940	94530	108600	85510	118400	200300	291400	242100	189800	50210	48140	69450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2000, BY WATER YEAR (WY)

MEAN	1034	1570	2244	2659	3417	4557	5757	6961	6905	2167	961	938
MAX	1829	2929	4185	8417	6722	6786	8211	10290	11050	5899	1524	1664
(WY)	1984	1984	1996	1997	1997	1997	1996	1996	1982	1982	1983	1986
MIN	503	879	800	1391	1786	2378	2151	1430	340	739	203	145
(WY)	2000	1980	1980	2000	1998	1979	1979	1994	1994	1985	1995	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1979 - 2000	
ANNUAL TOTAL	1197933		771032			
ANNUAL MEAN	3282		2107		3333	
HIGHEST ANNUAL MEAN					4743	1997
LOWEST ANNUAL MEAN					1562	1979
HIGHEST DAILY MEAN	10700	May 30	6530	Apr 14	27000	Jan 2 1997
LOWEST DAILY MEAN	147	Sep 26	202	Oct 11	63	Sep 18 1994
ANNUAL SEVEN-DAY MINIMUM	180	Sep 20	250	Oct 8	73	Sep 17 1994
ANNUAL RUNOFF (AC-FT)	2376000		1529000		2415000	
10 PERCENT EXCEEDS	7650		4560		8350	
50 PERCENT EXCEEDS	2230		1580		1800	
90 PERCENT EXCEEDS	366		624		715	

PAYETTE RIVER BASIN

13251000 PAYETTE RIVER NEAR PAYETTE, ID

LOCATION.--Lat 44°02'33", long 116°55'27", in NE¼SE¼SW¼ sec.10, T.8 N., R.5 W., Payette County, Hydrologic Unit 17050122, on right bank just upstream from bridge on U.S. Highway 95, 1.8 mi south of Payette, and at mile 4.1.

DRAINAGE AREA.--3,240 mi^2, approximately.

PERIOD OF RECORD.--August 1935 to current year. Records for January 1895 to July 1897 (published as "at Payette" in 18th and 19th Annual Reports) have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1397: 1949(m), 1952, 1953-54(m).

GAGE.--Water-stage recorder. Datum of gage is 2,138.44 ft above sea level. Aug. 1, 1935 to Aug. 7, 1939, nonrecording gage at site 50 ft downstream at present datum.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Deadwood Reservoir (sta 13236000), Cascade Reservoir beginning November 1947 (sta 13244500), other smaller reservoirs, and to some extent by Black Canyon Dam 34.6 mi upstream, where flow is regulated by diversion and gate operation at dam. Diversions above station for irrigation of about 196,000 acres, of which about 100 acres are irrigated by withdrawals from ground water, about 5,100 acres are located below station, and about 53,000 acres are in adjacent basins (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 32,000 ft^3/s Jan. 2, 1997; minimum, 71 ft^3/s July 1, 1977, gage height, 3.27 ft; minimum daily, 127 ft^3/s Aug. 15, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,680 ft^3/s Apr. 14, gage height, 8.08 ft; minimum, 539 ft^3/s Oct. 11, gage height, 4.04 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	709	1550	2350	1430	1550	3460	3790	4850	5440	1290	867	1520
2	718	1710	2440	1590	1700	3070	3800	4740	5010	1250	879	1880
3	742	1580	2350	1490	1630	2840	4210	4930	4670	1150	873	2250
4	712	1540	2190	1450	1570	2740	4850	4910	4500	1320	858	2200
5	734	1530	1790	1380	1570	2710	5300	5100	4480	1330	868	2160
6	736	1570	1490	1400	1590	3020	5760	4940	4630	1300	859	2160
7	739	1630	2220	1310	1680	3510	5120	4490	4950	1300	868	1820
8	783	1570	2340	1350	1680	3840	4150	4100	5160	1250	779	1830
9	701	1500	2240	1500	1650	3820	4160	3750	5470	1190	738	1810
10	636	1480	2200	1510	1660	3850	4490	3830	4430	1170	733	1780
11	550	1410	2220	1610	1760	3570	4720	3600	3460	1050	725	1770
12	568	1390	2210	1940	2030	3540	4830	3070	3240	994	748	1820
13	578	1690	2230	1780	2500	3310	5280	2770	4330	920	777	1810
14	635	1820	2360	1650	2900	3150	6930	2690	5290	886	822	1770
15	850	1850	2270	1980	4100	3360	6810	2410	5040	845	769	1570
16	1150	1810	2300	2580	3610	3410	6030	2360	4510	1010	834	1510
17	995	1720	2350	2930	2600	3500	5590	2510	3890	1020	1070	1510
18	1040	1850	2370	2220	2240	3250	5420	2750	3520	954	1120	1550
19	1070	1880	2370	2000	2050	3270	5690	3200	2670	965	1130	1540
20	1130	1870	2300	1930	1910	3640	5850	3660	2460	985	1150	1530
21	1370	1870	2220	1920	1900	3380	5950	4110	2320	885	1210	1530
22	1360	1930	1990	1900	1970	3200	6710	4370	2130	939	1160	1570
23	1330	1950	1870	1810	2750	3390	7050	5020	2010	868	1200	1610
24	1320	1960	1510	1730	4390	4020	6560	5980	1980	827	1210	1480
25	1280	1970	1360	1740	3190	3980	5770	6590	1870	806	1280	1530
26	1190	1990	1330	1790	2700	3840	5370	7070	1820	771	1370	1490
27	1120	3430	1280	1810	3570	3830	5110	6610	1700	744	1390	1160
28	1550	3040	1300	1620	5250	4280	5110	5750	1390	737	1380	1040
29	1690	2500	1320	1330	3960	4700	5630	5510	1300	788	1370	777
30	1840	2410	1290	1240	---	4270	5180	5610	1230	890	1430	690
31	1590	---	1210	1310	---	3800	---	5600	---	922	1440	---
TOTAL	31416	56000	61270	53230	71660	109550	161220	136880	104900	31356	31907	48667
MEAN	1013	1867	1976	1717	2471	3534	5374	4415	3497	1011	1029	1622
MAX	1840	3430	2440	2930	5250	4700	7050	7070	5470	1330	1440	2250
MIN	550	1390	1210	1240	1550	2710	3790	2360	1230	737	725	690
AC-FT	62310	111100	121500	105600	142100	217300	319800	271500	208100	62190	63290	96530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2000, BY WATER YEAR (WY)

MEAN	1466	1665	2014	2193	2582	3429	5242	6755	6565	2040	1287	1449
MAX	2399	2896	4803	9545	7398	8793	14990	12010	13170	6348	2092	2488
(WY)	1963	1984	1965	1997	1997	1986	1943	1946	1974	1982	1976	1985
MIN	440	919	793	813	961	939	421	564	397	311	369	435
(WY)	1936	1937	1936	1937	1937	1977	1977	1977	1977	1977	1992	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1935 - 2000	
ANNUAL TOTAL	1369329		898056			
ANNUAL MEAN	3752		2454		3055	
HIGHEST ANNUAL MEAN					5506	1997
LOWEST ANNUAL MEAN					945	1977
HIGHEST DAILY MEAN	11900	May 30	7070	May 26	32000	Jan 2 1997
LOWEST DAILY MEAN	486	Sep 21	550	Oct 11	127	Aug 15 1991
ANNUAL SEVEN-DAY MINIMUM	506	Sep 16	636	Oct 8	173	Jun 22 1994
ANNUAL RUNOFF (AC-FT)	2716000		1781000		2213000	
10 PERCENT EXCEEDS	8570		5030		7450	
50 PERCENT EXCEEDS	2370		1850		1890	
90 PERCENT EXCEEDS	756		868		863	

WEISER RIVER BASIN

13258500 WEISER RIVER NEAR CAMBRIDGE, ID

LOCATION.--Lat 44°34'47", long 116°38'20", in SE¼NE¼ sec.1, T.14 N., R.3 W., Washington County, Hydrologic Unit 17050124, on left bank 100 ft upstream from road bridge, 2.2 mi northeast of Cambridge, 2.5 mi upstream from Rush Creek, and at mile 48.7.

DRAINAGE AREA.--605 mi^2. Mean elevation, 4,650 ft.

PERIOD OF RECORD.--March 1939 to current year.

REVISED RECORDS.--WDR ID 1971: 1970(M).

GAGE.--Water-stage recorder. Datum of gage is 2,647.00 ft above sea level (levels by U.S. Bureau of Reclamation). Aug. 29, 1956 to Aug. 19, 1966, at datum 5.0 ft higher, Aug. 20, 1966 to July 8, 1976, at datum 3.00 ft higher. Apr. 23, 1939 to Dec. 21, 1955, at site 135 ft downstream at different datum. Nonrecording gage at different datum, prior to Apr. 23, 1939, at site 135 ft downstream, and Dec. 22, 1955 to Aug. 28, 1956, at bridge 2.5 mi downstream.

REMARKS.--No estimated daily discharges. Records fair. Station equipment includes telemetry. Flow regulated to some extent by Lost Valley Reservoir about 57 mi upstream, capacity reported to be 11,000 acre-ft, and other smaller reservoirs. Diversions above station for irrigation of about 12,200 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,800 ft^3/s Jan. 1, 1997, on basis of slope-area measurement; minimum, 7.1 ft^3/s Aug. 21-24, 1977, gage height, 2.23 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 23	2015	5,070	10.38	Feb. 27	1930	*5,280	*10.55
				Apr. 14	0445	3,320	8.76

Minimum daily, 28 ft^3/s Aug. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	101	194	176	278	1790	1080	1350	614	145	85	44
2	83	101	199	179	269	1560	1210	1490	553	141	79	80
3	83	101	169	161	265	1410	1520	1530	534	136	80	128
4	84	102	125	160	268	1430	1700	1600	521	129	79	106
5	88	128	133	170	281	1610	2090	1520	524	128	75	112
6	88	156	180	164	326	1960	1810	1420	512	129	75	122
7	94	131	188	172	351	1840	1510	1270	494	126	76	95
8	87	115	176	174	369	1520	1390	1220	521	123	69	79
9	84	109	165	170	400	1370	1490	1270	531	118	69	73
10	90	116	192	169	474	1190	1620	1270	458	114	66	75
11	98	133	189	175	603	1140	1740	1160	445	109	62	91
12	92	131	193	179	792	1020	1890	1060	604	102	53	81
13	88	124	298	169	786	919	2440	985	775	111	50	62
14	87	119	277	179	1630	949	3010	955	540	116	52	60
15	85	116	260	205	2070	957	2450	972	489	115	56	56
16	89	115	251	321	1270	981	2210	934	432	113	58	52
17	82	123	288	497	1080	979	2040	1110	384	111	58	52
18	84	142	361	425	917	889	2020	1130	356	111	54	52
19	86	127	363	381	771	1300	2060	1110	336	110	50	49
20	84	136	310	353	711	1060	1980	1090	316	103	53	46
21	82	141	275	347	704	945	2080	1080	275	94	55	48
22	81	126	255	336	941	897	2190	1150	261	97	55	52
23	80	110	210	315	3950	1070	2080	1140	244	92	57	49
24	80	121	192	313	2820	1110	1770	1060	233	88	55	53
25	80	163	180	326	1550	1070	1560	1030	219	75	63	50
26	82	485	182	361	1310	1050	1440	938	207	76	66	45
27	90	350	178	327	3230	1160	1390	891	199	74	68	67
28	184	232	165	278	3160	1400	1570	911	187	76	70	114
29	169	200	161	244	2190	1330	1470	839	167	87	34	112
30	120	192	158	259	---	1170	1360	754	152	86	28	112
31	107	---	172	291	---	1070	---	685	---	87	32	---
TOTAL	2896	4546	6639	7976	33766	38146	54170	34924	12083	3322	1882	2217
MEAN	93.4	152	214	257	1164	1231	1806	1127	403	107	60.7	73.9
MAX	184	485	363	497	3950	1960	3010	1600	775	145	85	128
MIN	80	101	125	160	265	889	1080	685	152	74	28	44
AC-FT	5740	9020	13170	15820	66970	75660	107400	69270	23970	6590	3730	4400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

MEAN	114	204	390	448	694	1190	1722	1729	909	197	84.7	86.3
MAX	443	1010	1694	2502	2036	2785	4542	3429	1993	555	164	163
(WY)	1963	1974	1997	1997	1982	1983	1952	1952	1974	1982	1983	1985
MIN	33.7	63.5	64.5	75.1	88.8	98.8	128	147	66.6	42.5	12.4	29.0
(WY)	1989	1940	1991	1977	1977	1977	1977	1977	1977	1977	1977	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939 - 2000	
ANNUAL TOTAL	338796		202567			
ANNUAL MEAN	928		553		649	
HIGHEST ANNUAL MEAN					1202	1974
LOWEST ANNUAL MEAN					79.8	1977
HIGHEST DAILY MEAN	5740	Mar 26	3950	Feb 23	19000	Jan 1 1997
LOWEST DAILY MEAN	80	Oct 23	28	Aug 30	7.1	Aug 21 1977
ANNUAL SEVEN-DAY MINIMUM	81	Oct 20	49	Aug 26	7.3	Aug 17 1977
ANNUAL RUNOFF (AC-FT)	672000		401800		470200	
10 PERCENT EXCEEDS	2750		1520		1800	
50 PERCENT EXCEEDS	360		192		220	
90 PERCENT EXCEEDS	95		68		69	

WEISER RIVER BASIN

13266000 WEISER RIVER NEAR WEISER, ID

LOCATION.--Lat 44°16'03", long 116°46'16", in SW¼SW¼NW¼ sec. 24, T.11 N., R.4 W., Washington County, Hydrologic Unit 17050124, on right bank, 0.25 mi upstream from county road bridge, 2.0 mi downstream from Crane Creek, 10 mi east of Weiser, and at mile 14.9.

DRAINAGE AREA.--1,460 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1890 to June 1891, December 1894 to October 1896, April to September 1897, March 1898 to November 1899, March 1900 to December 1904, October 1910 to December 1914, October 1952 to current year. Published as "at Weiser" prior to 1900.

REVISED RECORDS.--WSP 1347: 1895-1905, 1953(M).

GAGE.--Water-stage recorder. Datum of gage is 2,206.1 ft above sea level. Prior to October 1952, nonrecording gages at several sites downstream within 1.5 mi of present site at various datums. October 1952 to January 1974, water-stage recorder 1,000 ft upstream at different datum. January to October 1974, nonrecording gage at nearby sites and different datums.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes telemetry. Flow slightly regulated since 1911 by Crane Creek Reservoir 14.3 mi upstream, capacity about 51,700 acre-ft, and other small reservoirs. Diversions above station for irrigation of about 30,400 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,500 ft^3/s Jan. 2, 1997, gage height, 17.20 ft, (backwater from bridge); minimum observed, 14 ft^3/s Aug. 7, 1911, gage height, 2.80 ft, site and datum then in use; minimum gage height, 1.45 ft, Nov. 29, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 19, 1932, reached a discharge of about 17,500 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,600 ft^3/s Feb. 28, gage height, 11.67 ft; minimum, 124 ft^3/s Sept. 21, gage height, 3.97 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	176	169	283	e260	529	5320	1620	1850	1100	259	320	223
2	167	163	297	e260	535	4390	1710	1990	986	254	314	239
3	166	165	292	e260	534	3630	2070	2200	956	266	317	283
4	168	168	197	e260	519	3390	2310	2280	946	260	314	344
5	175	189	175	e280	540	3450	2820	2190	957	276	319	297
6	177	232	251	e260	664	4310	2640	2070	953	291	321	251
7	180	242	304	e240	732	3790	2230	1850	933	292	319	254
8	182	208	296	e260	773	3200	1990	1730	923	287	321	225
9	181	189	248	e260	854	2920	2030	1720	1030	267	313	214
10	178	184	271	e260	1040	2620	2180	1790	874	280	314	210
11	178	194	318	e260	1170	2350	2320	1670	830	262	299	208
12	177	201	317	e260	1930	2110	2490	1530	845	247	280	204
13	171	195	389	e260	2180	1880	2900	1400	1480	290	278	199
14	176	185	604	e280	4280	1780	4190	1320	1080	284	287	178
15	172	179	485	e550	6440	1750	3470	1340	949	287	287	159
16	140	176	461	e900	3350	1700	3040	1330	850	286	275	147
17	136	182	523	1450	2580	1820	2810	1550	747	291	265	145
18	137	194	658	1180	2180	1580	2720	1710	669	292	273	144
19	139	199	783	956	1700	2480	2780	1690	622	294	280	135
20	141	185	646	827	1470	2050	2700	1690	576	298	267	132
21	137	202	532	820	1370	1740	2780	1670	519	294	271	129
22	138	196	499	792	1950	1620	2960	1820	478	292	271	133
23	138	179	390	728	9690	1830	2940	1880	427	294	268	137
24	137	168	300	657	9150	1980	2520	1770	383	287	263	145
25	138	226	e280	680	4770	1860	2210	1720	346	280	257	144
26	137	459	e280	831	3910	1760	2020	1580	308	275	255	144
27	141	749	e280	745	9580	1820	1900	1480	298	290	259	140
28	173	423	e260	596	11400	2120	2120	1510	318	312	260	146
29	289	322	e240	484	6790	2110	2080	1430	317	315	262	195
30	227	287	e240	e420	---	1870	1900	1320	281	310	236	193
31	185	---	e260	495	---	1680	---	1200	---	312	221	---
TOTAL	5157	7010	11359	16771	92610	76910	74450	52280	21981	8824	8786	5697
MEAN	166	234	366	541	3193	2481	2482	1686	733	285	283	190
MAX	289	749	783	1450	11400	5320	4190	2280	1480	315	321	344
MIN	136	163	175	240	519	1580	1620	1200	281	247	221	129
AC-FT	10230	13900	22530	33270	183700	152600	147700	103700	43600	17500	17430	11300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 2000, BY WATER YEAR (WY)

MEAN	188	313	630	946	1536	2449	2502	2586	1579	392	227	184
MAX	631	1446	2920	4760	5403	7196	7275	5506	5895	1053	466	406
(WY)	1963	1974	1956	1997	1982	1904	1897	1897	1896	1896	1984	1984
MIN	42.8	124	99.9	149	159	136	174	182	183	104	23.0	33.3
(WY)	1989	1995	1991	1977	1955	1977	1977	1977	1977	1977	1911	1911

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1895 - 2000	
ANNUAL TOTAL	592852		381835			
ANNUAL MEAN	1624		1043		1124	
HIGHEST ANNUAL MEAN					2016	1904
LOWEST ANNUAL MEAN					136	1977
HIGHEST DAILY MEAN	9850	Mar 26	11400	Feb 28	31000	Jan2 1997
LOWEST DAILY MEAN	136	Oct 17	129	Sep 21	14	Aug7 1911
ANNUAL SEVEN-DAY MINIMUM	138	Oct 17	136	Sep 17	20	Aug 19 1911
ANNUAL RUNOFF (AC-FT)	1176000		757400		814200	
10 PERCENT EXCEEDS	4160		2480		2980	
50 PERCENT EXCEEDS	663		319		380	
90 PERCENT EXCEEDS	177		173		131	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968-1981, 1990, 1993, April 1996 to September 1997, June to September 1998, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: August to September 1997, June to September 1998, April to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 29.0 °C July 17, 1998.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 27.0 °C June 27.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
11...	1410	2430	80	8.3	21.0	10.8	6.4	--	--	K23	K20
MAY											
09...	1300	1750	73	8.1	16.0	11.4	2.5	11.4	114	41	270
JUN											
08...	1730	950	76	8.0	19.5	17.5	3.4	9.2	106	170	200
JUL											
11...	1620	252	122	8.6	32.0	25.4	37	--	--	K100	320
AUG											
22...	1540	266	128	8.1	32.0	22.4	30	8.7	109	300	1100
SEP											
12...	1820	206	154	8.4	31.0	21.6	28	9.1	112	160	K120

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
SEP												
12...	57	13.4	5.62	<.1	2.8	84	1	71	4.3	2.2	.2	29.4

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR							
11...	.021	.003	.28	.061	.010	27	177
MAY							
09...	.035	.003	.17	.032	.008	9	43
JUN							
08...	.108	.010	.26	.049	.015	11	28
JUL							
11...	.100	.006	.50	.149	.064	18	12
AUG							
22...	.115	.004	.76	.240	.076	73	52
SEP							
12...	.068	.006	.53	.155	.060	37	21

K Results based on counts outside ideal colony range.

WEISER RIVER BASIN

13266000 WEISER RIVER NEAR WEISER, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, APRIL TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	14.0	10.4	12.1
2	---	---	---	15.1	12.4	13.5
3	---	---	---	13.4	11.7	12.5
4	---	---	---	12.6	11.0	11.7
5	---	---	---	12.9	10.9	11.7
6	---	---	---	12.6	10.9	11.7
7	---	---	---	12.9	10.7	11.6
8	---	---	---	13.1	11.4	12.1
9	---	---	---	12.9	10.6	11.6
10	---	---	---	11.7	9.2	10.4
11	---	---	---	9.8	7.3	8.7
12	11.8	10.0	10.7	11.8	7.5	9.5
13	10.7	9.5	10.4	13.2	9.8	11.4
14	9.5	7.5	8.3	15.6	11.5	13.5
15	9.3	8.3	8.8	17.1	12.9	14.9
16	9.5	8.3	8.9	15.4	13.7	14.6
17	10.1	7.8	8.9	15.7	12.3	13.9
18	11.5	9.3	10.1	15.9	13.1	14.4
19	11.5	8.9	10.1	15.9	13.5	14.6
20	12.0	10.3	11.0	15.9	13.5	14.6
21	12.8	10.4	11.4	16.8	13.7	15.1
22	11.7	9.8	11.3	17.3	14.8	15.9
23	10.3	8.6	9.3	16.0	14.3	15.2
24	10.3	8.0	9.0	16.7	13.8	15.1
25	9.8	8.6	9.2	15.4	13.5	14.5
26	10.9	7.6	9.2	16.0	12.4	14.0
27	13.4	9.8	11.4	14.8	12.3	13.4
28	13.8	11.5	12.6	15.1	11.2	13.0
29	11.8	9.3	10.7	17.1	13.4	15.0
30	12.4	9.2	10.7	14.6	12.6	13.7
31	---	---	---	12.9	10.6	11.7
MONTH	---	---	---	17.3	7.3	13.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.2	9.7	12.4	25.8	20.5	23.1	26.0	20.4	23.2	19.4	17.6	18.6
2	18.6	12.3	15.3	25.1	19.2	22.1	25.6	19.6	22.6	19.6	16.7	17.9
3	20.5	14.9	17.6	23.9	19.4	21.6	24.6	19.2	21.9	17.0	14.8	15.9
4	21.7	16.3	18.9	23.0	16.8	19.9	25.8	20.0	22.5	19.4	14.3	16.7
5	21.4	17.6	19.3	21.0	17.6	18.6	25.8	19.6	22.7	18.3	16.0	17.1
6	21.4	16.8	19.1	22.9	15.7	19.1	25.1	19.2	22.2	19.4	14.1	16.7
7	22.4	17.1	19.6	24.1	17.5	20.7	25.6	19.4	22.4	20.2	15.1	17.7
8	20.0	15.9	17.7	24.1	18.4	21.2	25.1	19.1	22.1	18.6	15.7	17.2
9	17.1	14.0	15.6	24.4	18.3	21.4	25.4	19.4	22.5	17.8	13.7	15.9
10	17.1	14.6	15.7	24.9	18.6	21.8	25.6	20.2	22.7	16.3	13.8	14.8
11	14.6	12.4	13.4	26.0	19.1	22.6	24.8	19.1	22.0	19.7	13.4	16.3
12	14.8	12.1	13.1	26.5	20.0	23.3	24.9	18.6	21.8	21.9	16.7	19.2
13	16.5	11.8	14.1	25.6	19.4	22.7	24.6	18.9	21.8	22.9	18.1	20.5
14	20.7	15.1	17.6	25.4	18.7	22.1	24.6	18.3	21.5	23.7	18.6	21.0
15	21.2	17.5	19.1	23.7	18.9	21.4	24.6	18.6	21.6	22.2	18.3	20.6
16	21.2	16.5	18.7	23.5	17.9	20.6	24.6	18.4	21.5	23.0	18.4	20.8
17	21.7	16.5	19.1	22.0	19.2	20.4	24.1	18.4	21.2	23.5	18.9	21.1
18	22.0	16.8	19.3	24.2	17.8	20.5	24.1	18.6	21.3	22.7	18.6	20.6
19	21.5	16.7	19.1	25.4	18.4	21.9	23.5	18.3	20.9	22.2	18.3	19.9
20	22.9	16.5	19.6	26.0	19.6	22.9	23.0	17.6	20.4	19.7	15.1	17.5
21	24.8	17.9	21.2	26.1	19.6	22.9	23.4	17.5	20.4	19.7	15.4	17.2
22	24.8	20.0	22.4	25.3	19.4	22.4	23.7	17.8	20.7	16.3	12.8	14.6
23	24.6	19.4	22.1	25.3	19.4	22.3	24.1	18.3	21.1	14.8	9.5	12.1
24	25.4	18.4	21.8	25.1	18.3	21.8	24.9	19.2	21.9	15.4	10.0	12.7
25	25.4	19.1	22.2	25.4	18.6	22.1	24.4	19.1	21.8	16.2	10.7	13.3
26	26.0	19.4	22.8	25.4	19.2	22.3	23.9	18.3	21.2	16.5	10.9	13.6
27	27.0	19.9	23.4	25.4	19.2	22.3	23.5	18.3	21.0	16.8	11.2	14.0
28	26.5	20.7	23.8	26.0	18.7	22.2	22.7	17.1	20.0	17.3	12.6	14.9
29	26.5	20.0	23.3	26.3	19.2	22.6	22.4	17.0	19.8	17.5	13.2	15.5
30	26.5	20.7	23.6	25.6	19.6	22.4	23.2	18.1	20.6	17.0	14.1	15.7
31	---	---	---	26.0	20.0	22.9	21.5	17.6	19.7	---	---	---
MONTH	27.0	9.7	19.0	26.5	15.7	21.7	26.0	17.0	21.5	23.7	9.5	17.0

SNAKE RIVER MAIN STEM

13269000 SNAKE RIVER AT WEISER, ID

LOCATION.--Lat 44°14'44", long 116°58'48", in NW¼SE¼ sec.31, T.11 N., R.5 W., Washington County, Hydrologic Unit 17050124, on right bank, at upstream side of U.S. Highway 30N bridge at Weiser, 0.7 mi downstream from Weiser River, and at mile 351.3.

DRAINAGE AREA.--69,200 mi^2, approximately. Mean elevation, 5,400 ft.

PERIOD OF RECORD.--October 1910 to current year. Fragmentary gage-height record obtained by U.S. Weather Bureau since 1895. Monthly discharge only for October 1910, published in WSP 1317.

REVISED RECORDS.--WSP 1317: 1918. WSP 1567: 1910(M). WDR ID-76-1: 1975.

GAGE.--Water-stage recorder. Datum of gage is 2,086.64 ft above sea level. Prior to Oct. 1, 1914, nonrecording gage 0.2 mi downstream at different datum. Oct. 1, 1914 to Oct. 11, 1933, nonrecording gage, and Oct. 12, 1933 to Apr. 13, 1964, water-stage recorder, at site 0.3 mi upstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by many reservoirs above station. Diurnal fluctuation caused by hydroelectric plants upstream. Diversions above station for irrigation of about 3,650,000 acres, of which about 742,000 acres are irrigated by withdrawals from ground water. In addition, approximately 7,300 acres are irrigated below station by diversions from Weiser River (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 84,500 ft^3/s Apr. 29, 1952, gage height, 14.67 ft, site and datum then in use; maximum gage height recorded, 15.55 ft, Dec. 20, 1972, backwater from ice jam; minimum, 4,390 ft^3/s June 7, 1992, gage height, 1.36 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 3, 1910, reached a stage of 17.1 ft at site and datum 0.3 mi upstream, from reading on old U.S. Weather Bureau gage, discharge, 120,000 ft^3/s. Flood in June 1894 was considerably higher.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,900 ft^3/s Feb. 28, gage height, 7.30 ft; minimum daily, 9,180 ft^3/s July 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14400	18200	17100	17900	17800	25300	23200	18900	15900	9890	9880	12300
2	13600	18100	15700	18700	17800	23100	22800	18800	15600	9420	9340	13000
3	12900	17800	15300	18000	17900	20800	23800	17900	14800	9460	10000	13000
4	13700	16300	15700	17700	17000	18900	24700	17000	14200	9900	9890	15000
5	13900	17300	15900	18200	17000	19000	25600	16200	13800	10400	9590	15400
6	14200	16700	14600	18100	17000	20100	26200	17300	13300	10100	10000	15600
7	13500	15800	15100	18000	16700	19400	26100	16600	13200	10400	10100	14900
8	13200	15200	15800	17400	15900	19200	25400	15900	13600	10500	10400	14100
9	13300	15100	15700	17600	16600	19900	25200	15800	14900	10200	9940	14200
10	13400	15700	15900	18000	15300	18500	25000	16800	13700	10100	10300	e14000
11	13600	14700	15600	18300	14800	17900	25100	16900	12700	10300	9800	e13000
12	14400	15200	15500	19000	15300	18400	25900	16500	12900	9620	9700	e13000
13	14200	15200	15500	18700	17400	18300	26700	15700	14200	9580	9900	e13000
14	13800	15000	15900	18500	18300	18300	30400	15000	15500	9390	10100	e13000
15	13400	14900	16600	18500	23200	18600	30900	15900	14300	9420	9880	e12000
16	14300	15300	15900	19800	20000	18600	29800	16300	14200	9650	9980	e11000
17	14200	15700	15900	20600	18400	18500	29200	15900	12700	9630	10200	e12000
18	14500	14100	16300	20000	16600	17800	28200	16100	12100	9710	10400	e12000
19	14500	14500	16300	19400	15800	19000	28400	15600	11500	9500	10600	e12000
20	14700	14000	16100	19200	16800	18900	28400	15300	11000	9950	10300	e12000
21	14000	14200	15300	19100	14800	17700	27100	15500	10600	9980	10700	e11000
22	14800	14400	15500	19100	15100	18600	27400	15500	10200	9570	10900	e12000
23	15800	14700	15200	18900	22600	19100	28600	15800	9910	9580	11200	e12000
24	15500	16000	15000	18900	26700	19200	27300	17100	9800	9180	11300	e12000
25	14800	15200	14700	19300	21400	20100	25000	17100	9630	9430	11400	e14000
26	14800	14800	15700	19700	18300	21500	23800	17300	9420	10300	11600	e14000
27	15800	16900	15900	19300	24600	20800	22700	17300	9570	9240	11600	e13000
28	15000	17000	15400	18100	30700	23400	21400	16800	10100	9220	11500	e13000
29	15500	16100	16000	17800	26600	24100	22300	16200	9800	9390	11500	e13000
30	16300	16000	15900	17500	---	23900	18900	16300	9500	9530	11500	e13000
31	17500	---	15900	17400	---	23500	---	16200	---	9900	11900	---
TOTAL	447500	470100	486900	576700	546400	620400	775500	511500	372630	302440	325400	391500
MEAN	14440	15670	15710	18600	18840	20010	25850	16500	12420	9756	10500	13050
MAX	17500	18200	17100	20600	30700	25300	30900	18900	15900	10500	11900	15600
MIN	12900	14000	14600	17400	14800	17700	18900	15000	9420	9180	9340	11000
AC-FT	887600	932400	965800	1144000	1084000	1231000	1538000	1015000	739100	599900	645400	776500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2000, BY WATER YEAR (WY)

MEAN	14160	15150	15770	16710	19010	22790	27860	28550	26230	12100	9836	11660
MAX	24650	27130	29180	43480	49100	55340	68570	62720	59120	29210	15410	19070
(WY)	1985	1985	1984	1997	1997	1986	1952	1984	1921	1917	1997	1997
MIN	7818	9768	9810	10310	10210	10410	7812	6898	5745	5844	5348	6319
(WY)	1925	1993	1993	1989	1935	1992	1977	1992	1992	1924	1992	1924

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1911 - 2000	
ANNUAL TOTAL	8363600		5826970			
ANNUAL MEAN	22910		15920		18290	
HIGHEST ANNUAL MEAN					33750	1984
LOWEST ANNUAL MEAN					8854	1992
HIGHEST DAILY MEAN	50500	Mar 27	30900	Apr 15	83800	Apr 28 1952
LOWEST DAILY MEAN	10200	Jul 30	9180	Jul 24	4460	Jun 7 1992
ANNUAL SEVEN-DAY MINIMUM	11100	Jul 28	9470	Jul 24	4740	Jun 5 1992
ANNUAL RUNOFF (AC-FT)	16590000		11560000		13250000	
10 PERCENT EXCEEDS	38800		22900		34300	
50 PERCENT EXCEEDS	17800		15600		14500	
90 PERCENT EXCEEDS	12300		9930		9060	

e Estimated

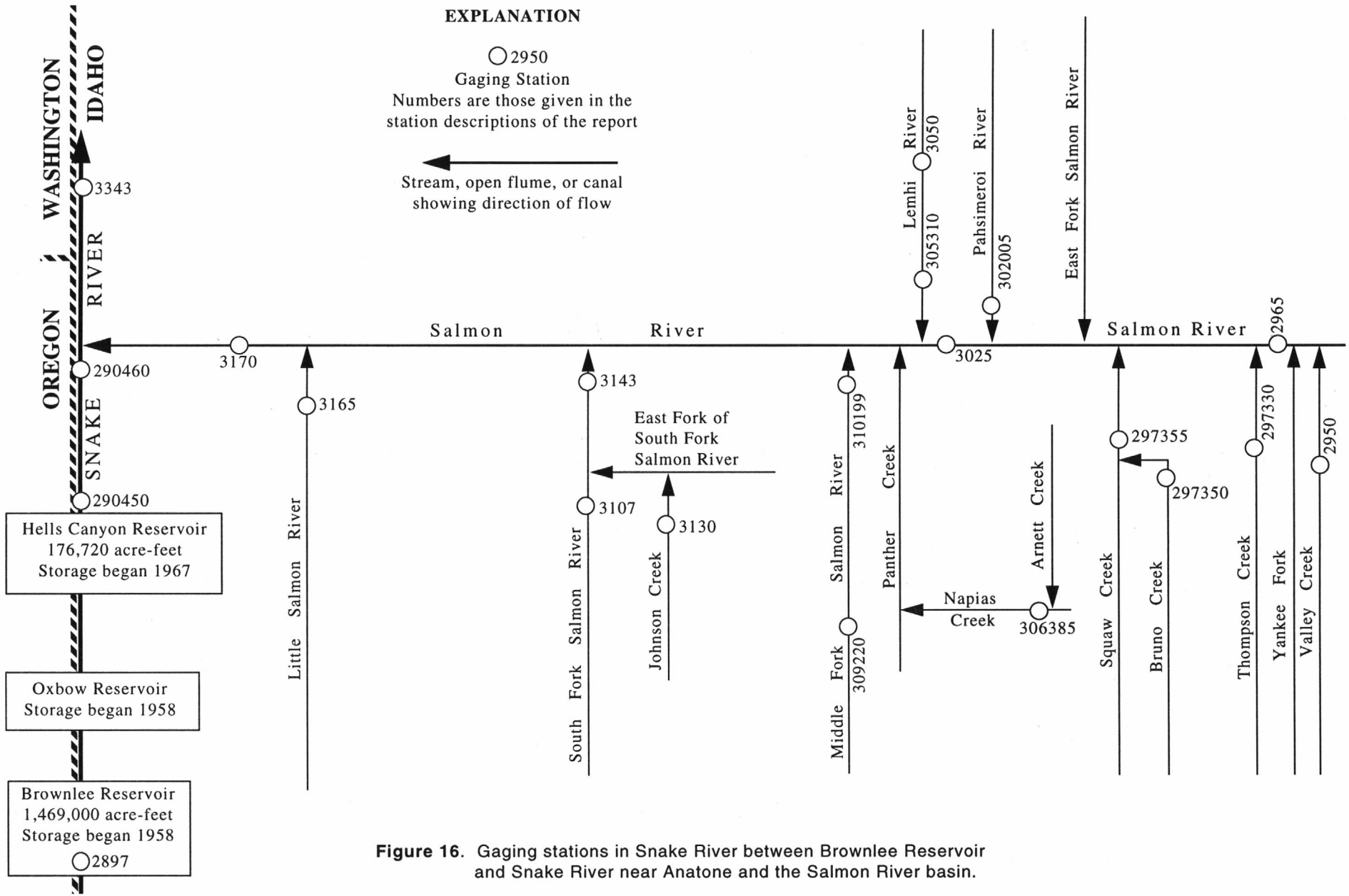


Figure 16. Gaging stations in Snake River between Brownlee Reservoir and Snake River near Anatone and the Salmon River basin.

SNAKE RIVER MAIN STEM

13289700 BROWNLEE RESERVOIR AT BROWNLEE DAM, IDAHO-OREGON STATE LINE

LOCATION.--Lat 44°50'08", long 116°53'58", in SE¼SE¼ sec.2, T.17 N., R.5 W., Washington County, Hydrologic Unit 17050201, at Brownlee Dam on Snake River near Idaho end of dam, 1.1 mi upstream from Wildhorse River, 3.5 mi downstream from Brownlee Creek, 10.5 mi east of Halfway, Oregon, and at mile 285.0.

DRAINAGE AREA.--72,590 mi^2, approximately.

PERIOD OF RECORD.--May 1958 to current year. Published as "at Idaho-Oregon State line" 1958-59.

GAGE.--Remote registering water-stage recorder. Datum of gage is sea level (levels by Idaho Power Co.). Prior to Feb. 2, 1959, nonrecording gage or levels to water surface at present site and datum.

REMARKS.--Reservoir is formed by earthfill dam. Storage began May 5, 1958. Dam was completed in fall of 1958. Normal pool elevation, 2,077 ft. Water is used for power generation.

COOPERATION.--Reservoir elevations and capacity table furnished by Idaho Power Co. (Capacity table recomputed 1985).

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,454,000 acre-ft Aug. 6, 1962, elevation, 2,078.91 ft; minimum since full capacity was attained June 23, 1959, 441,200 acre-ft Apr. 25, 1971, elevation, 1,975.20 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,408,000 acre-ft June 14, elevation, 2,076.14 ft; minimum, 847,800 acre-ft Oct. 17, 18, elevation, 2,027.06 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

2,020.0	783,200	2,060.0	1,194,000
2,040.0	973,800	2,080.0	1,465,000

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	956400	936700	1173000	1382000	1226000	1202000	1084000	1143000	1363000	1355000	1003000	1053000
2	949200	950500	1182000	1394000	1216000	1202000	1081000	1149000	1368000	1351000	1003000	1066000
3	949300	964300	1194000	1394000	1205000	1193000	1083000	1157000	1372000	1351000	1005000	1074000
4	942200	971400	1203000	1391000	1195000	1176000	1088000	1162000	1378000	1347000	1001000	1090000
5	936400	983200	1217000	1391000	1183000	1163000	1092000	1171000	1373000	1336000	999800	1098000
6	928100	989700	1222000	1391000	1171000	1159000	1101000	1182000	1364000	1325000	999800	1099000
7	918200	1002000	1231000	1385000	1162000	1152000	1104000	1195000	1356000	1314000	999800	1092000
8	910200	1007000	1237000	1378000	1150000	1153000	1108000	1202000	1359000	1305000	1006000	1093000
9	898800	1011000	1243000	1374000	1142000	1155000	1114000	1204000	1380000	1293000	1006000	1092000
10	896100	1011000	1247000	1368000	1135000	1153000	1114000	1202000	1389000	1282000	1007000	1101000
11	887800	1019000	1248000	1364000	1129000	1151000	1117000	1195000	1395000	1265000	1007000	1092000
12	883900	1026000	1256000	1355000	1119000	1149000	1121000	1185000	1399000	1245000	1007000	1078000
13	876600	1033000	1258000	1347000	1123000	1144000	1123000	1177000	1405000	1222000	1011000	1069000
14	868100	1038000	1260000	1341000	1128000	1140000	1136000	1160000	1405000	1205000	1013000	1058000
15	855100	1043000	1268000	1333000	1138000	1134000	1147000	1155000	1401000	1184000	1012000	1045000
16	853900	1049000	1276000	1330000	1139000	1132000	1155000	1162000	1395000	1166000	1010000	1035000
17	847800	1054000	1281000	1328000	1141000	1124000	1166000	1173000	1398000	1148000	1011000	1028000
18	853400	1058000	1282000	1324000	1139000	1118000	1174000	1186000	1402000	1139000	1010000	1010000
19	859600	1063000	1288000	1321000	1134000	1113000	1172000	1203000	1397000	1124000	1012000	994900
20	864100	1069000	1291000	1318000	1147000	1107000	1176000	1213000	1394000	1115000	1015000	982500
21	867200	1071000	1294000	1313000	1146000	1100000	1178000	1225000	1378000	1094000	1016000	969300
22	867600	1076000	1297000	1307000	1141000	1100000	1179000	1234000	1374000	1080000	1022000	953400
23	874500	1079000	1301000	1303000	1153000	1095000	1184000	1248000	1381000	1070000	1026000	946000
24	880200	1087000	1307000	1296000	1174000	1089000	1186000	1267000	1385000	1057000	1029000	940500
25	885400	1098000	1316000	1288000	1174000	1084000	1187000	1287000	1392000	1040000	1031000	935800
26	892800	1111000	1325000	1283000	1163000	1083000	1173000	1302000	1385000	1024000	1038000	937700
27	897400	1119000	1332000	1280000	1170000	1085000	1159000	1315000	1373000	1010000	1044000	952500
28	904900	1134000	1335000	1270000	1188000	1087000	1151000	1332000	1364000	999800	1044000	959100
29	919000	1151000	1341000	1258000	1193000	1088000	1149000	1344000	1355000	999800	1045000	967400
30	925000	1161000	1356000	1246000	---	1090000	1149000	1356000	1350000	999800	1049000	971200
31	934500	---	1366000	1237000	---	1085000	---	1361000	---	1002000	1049000	---
MAX	956400	1161000	1366000	1394000	1226000	1202000	1187000	1361000	1405000	1355000	1049000	1101000
MIN	847800	936700	1173000	1237000	1119000	1083000	1081000	1143000	1350000	999800	999800	935800
†	2036.08	2057.14	2073.19	2063.45	2059.92	2050.46	2056.13	2072.88	2072.05	2042.73	2047.19	2039.75
‡	-32200	226500	205000	-129000	-44000	-108000	64000	212000	-11000	-348000	47000	-77800

CAL YR 1999 MAX 1417000 MIN 538400 ‡ 17000
WTR YR 2000 MAX 1405000 MIN 847800 ‡ 4500

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

SNAKE RIVER MAIN STEM

13290450 SNAKE RIVER AT HELLS CANYON DAM, IDAHO-OREGON STATE LINE

LOCATION.--Lat 45°15'05", long 116°41'50", in SE¼SE¼ sec.33, T.3 S., R.49 E., unsurveyed (Willamette meridian), Wallowa County, Oregon, Wallowa-Whitman National Forest, Hydrologic Unit 17050201, on left bank 0.2 mi upstream from Hells Canyon Creek, 0.4 mi downstream from Deep Creek, 0.6 mi downstream from Hells Canyon Dam, 15.5 mi northeast of Homestead, Oregon, and at mile 247.0.

DRAINAGE AREA.--73,300 mi^2, approximately.

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

REVISED RECORDS.--WDR ID-78-2: 1969-70, 1972-76, WDR ID-79-2: 1972-73(m).

GAGE.--Water-stage recorder. Datum of gage is 1,400.00 ft above sea level (levels by Idaho Power Company).

REMARKS.--Records good. Station equipment includes satellite telemetry. Flow regulated by many reservoirs above station, with a total usable capacity of more than 10,000,000 acre-feet, the most effective of which is Brownlee Reservoir 38 mi upstream (see sta 13289700). Diurnal fluctuations caused by Hells Canyon powerplant. Diversions above station for irrigation of about 3,820,000 acres, of which 742,000 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 103,000 ft^3/s Jan. 2, 1997, gage height, 86.17 ft; minimum, 1,580 ft^3/s Mar. 19, 1967, gage height, 59.9 ft; minimum daily, 4,360 ft^3/s May 8, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37,500 ft^3/s May 16, gage height, 73.92 ft; minimum, 4,410 ft^3/s Sept. 3, gage height, 62.31 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18200	13000	11100	11500	24700	30300	27100	25600	18400	8630	10400	9380
2	16800	13000	11300	11800	24000	27900	28100	21600	16200	10600	10100	7020
3	15000	12900	11400	21000	24000	29700	27000	16200	12500	10900	8780	6460
4	16600	12900	11300	20100	25100	29800	28500	17900	12700	11100	10200	6430
5	19200	13000	11300	19300	27500	27300	27500	17700	22400	16900	10100	14800
6	20000	13000	11100	24000	23300	26900	27000	15400	22400	17100	9720	17200
7	20100	13000	11800	24600	21000	27000	29100	14200	19500	17000	9240	17500
8	18700	13000	13400	24000	23500	23700	28600	17500	11200	17000	8100	16400
9	20100	13000	14900	13700	22100	22200	26700	18000	8220	17000	10100	12300
10	17600	13000	15300	22800	22300	22200	30100	21500	11400	18600	9880	10000
11	16300	13000	13100	22600	21200	20900	27800	25100	11000	19600	9410	18500
12	18200	13100	11900	25700	18500	23000	29800	24800	14400	21300	9490	20900
13	19100	13100	15800	23500	16900	25400	30600	24000	15700	21100	8880	21600
14	18000	13100	18000	22000	20700	23800	30600	24700	21200	19800	8860	20700
15	19300	13000	14300	23500	23600	22500	30500	20400	20400	19300	9020	19800
16	20200	13000	14300	21200	23500	24100	29300	13800	16200	19900	9740	13700
17	14900	12900	14500	24400	21800	23600	30400	12400	14100	20000	9230	16200
18	13000	12800	14300	23900	21000	24000	31500	12700	11800	16400	11700	22100
19	12900	13000	12800	22400	18900	24700	32400	11400	17500	18500	10300	20400
20	13000	13000	16400	23500	12100	25200	32400	12500	16800	18300	9690	20200
21	13000	12900	17300	23100	19600	24800	32400	13600	20700	18100	9290	17500
22	12900	12900	15200	23100	18900	22100	32400	14900	14800	16600	9290	19800
23	12900	12900	14900	24400	18400	23600	32300	12800	7160	13700	8940	17600
24	13000	12200	11700	24100	23500	25400	32300	12100	6800	18800	9620	18000
25	12900	11200	11400	23700	26300	25600	32300	11500	7640	18800	9890	e18000
26	13000	11100	12400	24000	25700	26100	31400	11400	17100	18800	9180	19100
27	13000	11100	14700	24600	25300	23700	32200	13200	16200	17700	9190	7060
28	13000	11100	14000	23900	27700	25800	31100	12000	14900	14100	11500	5700
29	13100	11000	13700	23600	30400	26600	27700	11400	16600	10200	12000	5810
30	13000	11100	12200	24200	---	29000	24400	14000	10700	9060	10900	7570
31	13000	---	13300	24500	---	27600	---	18300	---	9340	11400	---
TOTAL	490000	377300	419100	688700	651500	784500	893500	512600	446620	504230	304140	447730
MEAN	15810	12580	13520	22220	22470	25310	29780	16540	14890	16270	9811	14920
MAX	20200	13100	18000	25700	30400	30300	32400	25600	22400	21300	12000	22100
MIN	12900	11000	11100	11500	12100	20900	24400	11400	6800	8630	8100	5700
AC-FT	971900	748400	831300	1366000	1292000	1556000	1772000	1017000	885900	1000000	603300	888100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000, BY WATER YEAR (WY)

MEAN	15660	15670	18320	22800	24970	29580	30910	27750	25150	14440	11510	14200
MAX	24140	28630	30410	50150	58220	66340	61960	68840	59080	25550	19860	24960
(WY)	1972	1985	1984	1997	1997	1986	1984	1984	1984	1983	1997	1997
MIN	9962	9193	9391	12850	11570	10600	7371	6401	5868	6901	6583	6887
(WY)	1989	1993	1993	1991	1988	1991	1988	1977	1992	1977	1992	1977

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1966 - 2000	
ANNUAL TOTAL	9357560		6519920			
ANNUAL MEAN	25640		17810		20880	
HIGHEST ANNUAL MEAN					36560	1984
LOWEST ANNUAL MEAN					9746	1992
HIGHEST DAILY MEAN	63600	Mar 27	32400	Apr 19	98100	Jan 2 1997
LOWEST DAILY MEAN	8290	Aug 8	5700	Sep 28	4360	May 8 1977
ANNUAL SEVEN-DAY MINIMUM	11100	Nov 25	9080	Aug 29	5330	Jun 4 1992
ANNUAL RUNOFF (AC-FT)	18560000		12930000		15120000	
10 PERCENT EXCEEDS	45200		27000		39400	
50 PERCENT EXCEEDS	21500		17100		16900	
90 PERCENT EXCEEDS	12500		10100		9220	

e Estimated

SNAKE RIVER MAIN STEM

13290460 SNAKE RIVER AT JOHNSON BAR, IDAHO-OREGON STATE LINE

LOCATION.-Lat 45°27'50", long 116°33'16", in SE¼NE¼ sec.22, T.1 S., R.50 E. (Willamette Meridian), Wallowa County, Oregon, Hydrologic Unit 17060101, Hells Canyon National Recreation Area, on left bank opposite lower end of Johnson Bar, 0.5 mi upstream from mouth of Sheep Creek, and at mile 229.9.

DRAINAGE AREA.-73,400 mi^2, approximately.

PERIOD OF RECORD.-July 1959 to September 1992 (gage heights only), October 1992 to September 1995 (discharge), October 1995 to current year (gage heights only).

GAGE.-Water-stage recorder. Datum of gage is 1,226.341 ft above sea level (levels by Corps of Engineers).

REMARKS.-Records good. Station equipment includes satellite telemetry. Diurnal fluctuations in stage are caused by Hells Canyon Powerplant. Records for years prior to the 1991 water year were not published, but are available from the Boise Field Office.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 13.23 ft, May 16; minimum gage height, 3.99 ft, Sept. 28.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.81	6.49	5.96	6.04	9.37	10.79	9.88	9.57	7.86	5.12	5.64	5.47
2	7.31	6.48	6.00	6.04	9.16	10.10	10.14	8.68	7.38	5.80	5.63	4.70
3	7.10	6.48	5.98	8.39	9.10	10.60	9.89	7.53	6.32	5.79	5.27	4.41
4	7.19	6.45	5.97	8.17	9.39	10.63	10.28	7.55	6.26	5.81	5.53	4.34
5	8.03	6.48	5.97	8.06	10.06	10.01	10.06	7.75	8.79	7.32	5.49	6.55
6	8.18	6.48	5.91	9.05	9.16	9.85	9.82	7.07	8.79	7.55	5.54	7.46
7	8.23	6.49	6.05	9.34	8.24	9.96	10.42	6.80	8.33	7.51	5.28	7.55
8	7.85	6.50	6.53	9.15	9.09	9.12	10.25	7.57	6.21	7.44	4.98	7.36
9	8.20	6.49	6.88	6.74	8.70	8.73	9.86	7.57	5.16	7.47	5.55	6.14
10	7.69	6.49	7.01	8.74	8.79	8.79	10.56	8.53	5.95	7.80	5.44	5.59
11	7.13	6.49	6.50	8.85	8.42	8.39	10.12	9.41	5.85	8.16	5.39	7.59
12	7.72	6.53	6.17	9.48	7.89	8.90	10.55	9.36	6.94	8.43	5.46	8.20
13	7.95	6.53	7.06	9.10	7.42	9.56	10.82	9.17	7.07	8.61	5.32	8.72
14	7.77	6.52	7.68	8.74	8.31	9.13	10.83	9.37	8.46	8.21	5.32	8.34
15	7.99	6.50	6.84	8.99	9.07	8.73	10.81	8.43	8.42	7.98	5.27	8.14
16	8.27	6.48	6.82	8.49	9.02	9.25	10.47	6.98	7.37	8.13	5.48	6.52
17	7.05	6.46	6.80	9.22	8.64	9.03	10.75	6.36	6.87	8.24	5.38	7.23
18	6.44	6.45	6.75	9.13	8.47	9.19	10.96	6.40	5.91	7.50	5.95	8.54
19	6.40	6.49	6.36	8.82	7.86	9.33	11.25	6.08	7.63	7.75	5.76	8.30
20	6.42	6.51	7.23	9.04	6.31	9.47	11.26	6.28	7.51	7.83	5.31	8.33
21	6.41	6.48	7.54	8.92	8.03	9.37	11.25	6.59	8.28	7.78	5.32	7.63
22	6.44	6.47	7.02	8.96	7.89	8.77	11.25	6.97	7.11	7.34	5.23	8.07
23	6.44	6.46	6.94	9.25	7.83	9.04	11.26	6.54	4.89	6.53	5.18	7.54
24	6.45	6.32	6.10	9.23	8.95	9.45	11.26	6.23	4.56	7.82	5.28	7.64
25	6.45	6.00	5.96	9.09	9.64	9.56	11.24	6.07	4.58	7.98	5.46	8.13
26	6.49	5.97	6.21	9.15	9.59	9.67	11.01	6.08	7.31	7.86	5.26	8.14
27	6.49	5.96	6.78	9.25	9.47	9.08	11.22	6.43	7.34	7.64	5.25	4.82
28	6.50	5.97	6.75	9.14	10.06	9.60	10.98	6.34	6.93	6.86	5.96	4.09
29	6.51	5.95	6.52	9.06	10.76	9.75	10.19	5.94	7.30	5.65	5.87	4.08
30	6.49	5.95	6.29	9.26	---	10.36	9.21	6.58	5.94	5.41	5.86	4.55
31	6.49	---	6.45	9.23	---	10.06	---	7.74	---	5.39	6.05	---
MEAN	7.16	6.38	6.55	8.71	8.78	9.49	10.60	7.35	6.91	7.25	5.47	6.81
MAX	8.27	6.53	7.68	9.48	10.76	10.79	11.26	9.57	8.79	8.61	6.05	8.72
MIN	6.40	5.95	5.91	6.04	6.31	8.39	9.21	5.94	4.56	5.12	4.98	4.08

CAL YR 1999 MEAN 9.56 MAX 18.16 MIN 5.04
WTR YR 2000 MEAN 7.61 MAX 11.26 MIN 4.08

SALMON RIVER BASIN

13295000 VALLEY CREEK AT STANLEY, ID

LOCATION.--Lat 44°13'21", long 114°55'49", in SE¼NW¼SW¼ sec.3, T.10 N., R.13 E., Custer County, Challis National Forest, Hydrologic Unit 17060201, on left bank at mile 0.2, 0.5 mi northeast of Stanley, and 0.8 mi southwest of Lower Stanley.

DRAINAGE AREA.--147 mi^2. Mean elevation, 7,400 ft.

PERIOD OF RECORD.--December 1910 to April 1911 (gage heights only), May 1911 to October 1913, May 1921 to December 1971, April to September 1972, October 1992 to current year.

REVISED RECORDS.--WSP 362: 1911-12. WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,221.81 ft above sea level. Prior to May 28, 1911, nonrecording gage at site 0.2 mi upstream, and May 28, 1911 to Oct. 31, 1913, at site 0.8 mi upstream, at different datums. May 2, 1921 to Apr. 30, 1949, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 3,000 acres (1966 determination). Water-quality records for water years 1959, 1971-72 are published in reports of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft^3/s May 24, 1956; maximum gage height, 4.4 ft, May 29, 1921; minimum daily, 34 ft^3/s Aug. 28, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 25	1000	693	2.33	June 13	0300	*750	*2.42

Minimum, 45 ft^3/s Nov. 23, gage height, 0.59 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	98	109	e75	e70	80	95	358	458	221	80	76
2	78	95	91	e75	e75	75	105	394	425	216	77	87
3	78	96	86	e75	e75	79	120	427	422	211	79	93
4	78	112	75	e75	e75	79	142	484	444	200	85	88
5	79	131	82	e70	e75	84	172	539	472	185	80	83
6	84	115	100	e70	e75	87	164	473	509	177	77	77
7	88	105	95	e70	e80	85	150	435	530	165	73	73
8	85	102	91	e75	e80	82	152	393	544	158	72	67
9	82	100	94	e80	e85	85	187	428	515	154	72	66
10	80	97	102	77	80	85	215	417	458	149	69	68
11	81	97	101	81	81	83	236	360	415	144	65	77
12	82	94	101	84	82	74	268	322	529	136	63	71
13	82	92	102	e80	82	80	324	290	707	132	64	75
14	81	88	103	89	82	83	338	278	575	127	65	74
15	79	84	104	86	82	79	313	297	536	122	64	68
16	76	88	95	e80	83	78	305	298	512	120	62	69
17	77	92	93	e80	82	81	303	309	452	115	61	68
18	82	89	92	e80	85	76	315	337	403	127	61	68
19	79	82	88	e80	80	90	357	370	388	131	59	67
20	82	93	88	e80	87	77	350	395	361	118	59	66
21	83	77	87	e85	86	75	410	430	336	112	60	70
22	81	78	80	e80	83	84	402	506	327	102	59	85
23	80	62	81	e80	85	91	378	596	324	101	60	80
24	83	81	e80	e80	82	80	312	650	313	94	61	77
25	84	93	e80	e85	79	82	298	677	300	91	57	77
26	81	188	e75	88	80	91	308	661	284	89	56	77
27	84	160	e75	e80	83	98	308	620	266	88	55	73
28	187	122	e75	e75	83	106	409	626	252	84	56	75
29	151	108	e75	e75	80	94	372	613	241	83	55	74
30	119	111	e75	e70	---	90	344	568	229	82	55	73
31	111	---	e75	e70	---	91	---	512	---	81	57	---
TOTAL	2756	3030	2750	2430	2337	2604	8152	14063	12527	4115	2018	2242
MEAN	88.9	101	88.7	78.4	80.6	84.0	272	454	418	133	65.1	74.7
MAX	187	188	109	89	87	106	410	677	707	221	85	93
MIN	76	62	75	70	70	74	95	278	229	81	55	66
AC-FT	5470	6010	5450	4820	4640	5170	16170	27890	24850	8160	4000	4450
CFSM	.60	.69	.60	.53	.55	.57	1.85	3.09	2.84	.90	.44	.51
IN.	.70	.77	.70	.61	.59	.66	2.06	3.56	3.17	1.04	.51	.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2000, BY WATER YEAR (WY)

MEAN	98.8	99.7	91.3	84.5	82.4	86.4	213	563	650	287	117	93.7
MAX	181	178	202	224	163	158	417	1026	1157	717	244	151
(WY)	1963	1928	1942	1997	1963	1934	1943	1956	1911	1943	1943	1965
MIN	56.4	57.4	54.8	50.0	54.5	65.0	87.9	277	167	61.5	42.4	39.7
(WY)	1993	1993	1932	1930	1993	1912	1955	1994	1926	1994	1994	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1911 - 2000	
ANNUAL TOTAL	86909		59024			
ANNUAL MEAN	238		161		203	
HIGHEST ANNUAL MEAN					331	1997
LOWEST ANNUAL MEAN					101	1994
HIGHEST DAILY MEAN	1220	May 30	707	Jun 13	1900	May 24 1956
LOWEST DAILY MEAN	62	Nov 23	55	Aug 27	34	Aug 28 1994
ANNUAL SEVEN-DAY MINIMUM	76	Dec 25	56	Aug 25	35	Aug 31 1994
ANNUAL RUNOFF (AC-FT)	172400		117100		146900	
ANNUAL RUNOFF (CFSM)	1.62		1.10		1.38	
ANNUAL RUNOFF (INCHES)	21.99		14.94		18.74	
10 PERCENT EXCEEDS	642		409		548	
50 PERCENT EXCEEDS	103		86		100	
90 PERCENT EXCEEDS	81		70		67	

e Estimated

SALMON RIVER BASIN

13296500 SALMON RIVER BELOW YANKEE FORK NEAR CLAYTON, ID

LOCATION.--Lat 44°16'06", long 114°43'55", in sec.20, T.1 N., R.15 E. (unsurveyed), Custer County, Hydrologic Unit 17060201, Challis National Forest, on left bank, 700 ft downstream from Yankee Fork, 18 mi upstream from Clayton, and at mile 366.9.

Drainage AREA.--802 mi^2. Mean elevation, 7,790 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1921 to October 1991, May to September 2000. Monthly discharge only for some periods, published in WSP 1317. Operated as high-flow station only 1972-76 (discharge for period October 1976 to April 1977 was estimated). .

REVISED RECORDS.--WSP 1347: 1931. WSP 1567: Drainage area. WDR ID-77-1: 1974-76 (M).

GAGE.--Water-stage recorder. Datum of gage is 5,900 ft by barometer. Oct. 3, 1926 to Nov. 5 1934, at site 200 ft downstream at approximately present datum. Prior to Oct. 3, 1926, nonrecording gage at site 200 ft downstream at datum approximately 1.5 ft higher..

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions above station for irrigation of about 4,400 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft^3/s June 17, 1974, gage height, 11.86 ft; minimum, 160 ft^3/s, estimated, Nov. 25-30, 1929.

EXTREMES FOR CURRENT PERIOD.--Peak discharges greater than base discharge of 2,350 ft^3/s and maximum (*) during period May to September 2000:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 5	0715	2,650	5.61	May 25	unknown	*[a] 3,800	*unknown

(a) Maximum daily discharge

Minimum, 324 ft^3/s Aug. 31, gage height, 1.81 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	e1900	2700	1140	453	396
2	---	---	---	---	---	---	---	2060	2460	1100	454	436
3	---	---	---	---	---	---	---	2260	2430	1060	448	434
4	---	---	---	---	---	---	---	2460	2530	1030	459	428
5	---	---	---	---	---	---	---	2590	2660	967	453	415
6	---	---	---	---	---	---	---	2370	2810	922	438	401
7	---	---	---	---	---	---	---	2180	2880	886	430	395
8	---	---	---	---	---	---	---	2000	2930	844	424	377
9	---	---	---	---	---	---	---	1940	2840	807	420	376
10	---	---	---	---	---	---	---	1920	2590	778	422	372
11	---	---	---	---	---	---	---	1740	2330	733	410	398
12	---	---	---	---	---	---	---	1590	2380	706	402	381
13	---	---	---	---	---	---	---	1470	2720	688	396	379
14	---	---	---	---	---	---	---	1410	2530	667	394	376
15	---	---	---	---	---	---	---	1430	2460	655	384	371
16	---	---	---	---	---	---	---	1470	2420	633	383	370
17	---	---	---	---	---	---	---	1610	2230	620	377	368
18	---	---	---	---	---	---	---	1830	2040	642	376	364
19	---	---	---	---	---	---	---	2030	1930	643	377	361
20	---	---	---	---	---	---	---	2200	1800	605	372	362
21	---	---	---	---	---	---	---	2420	1670	588	372	367
22	---	---	---	---	---	---	---	2860	1610	559	363	403
23	---	---	---	---	---	---	---	e3300	1570	550	354	420
24	---	---	---	---	---	---	---	e3600	1520	527	364	422
25	---	---	---	---	---	---	---	e3800	1470	523	352	422
26	---	---	---	---	---	---	---	e3600	1410	512	352	435
27	---	---	---	---	---	---	---	e3400	1340	503	349	428
28	---	---	---	---	---	---	---	e3400	1270	486	354	422
29	---	---	---	---	---	---	---	e3400	1220	475	344	420
30	---	---	---	---	---	---	---	e3300	1170	466	339	412
31	---	---	---	---	---	---	---	3040	---	461	337	---
TOTAL	---	---	---	---	---	---	---	74580	63920	21776	12152	11911
MEAN	---	---	---	---	---	---	---	2406	2131	702	392	397
MAX	---	---	---	---	---	---	---	3800	2930	1140	459	436
MIN	---	---	---	---	---	---	---	1410	1170	461	337	361
AC-FT	---	---	---	---	---	---	---	147900	126800	43190	24100	23630
CFSM	---	---	---	---	---	---	---	3.00	2.66	.88	.49	.50
IN.	---	---	---	---	---	---	---	3.46	2.96	1.01	.56	.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2000, BY WATER YEAR (WY)

MEAN	508	496	444	411	404	422	926	2581	3218	1404	599	490
MAX	796	813	755	659	665	699	1924	4993	6944	3749	1281	903
(WY)	1963	1984	1942	1974	1963	1986	1943	1928	1974	1943	1965	1965
MIN	300	277	272	230	250	284	421	601	838	402	269	263
(WY)	1925	1930	1933	1930	1930	1930	1967	1977	1987	1931	1931	1931

SUMMARY STATISTICS	WATER YEARS 1922 - 2000	
ANNUAL MEAN	990	
HIGHEST ANNUAL MEAN	1638	1974
LOWEST ANNUAL MEAN	466	1977
HIGHEST DAILY MEAN	10300	Jun 17 1974
LOWEST DAILY MEAN	160	Nov 25 1929
ANNUAL SEVEN-DAY MINIMUM	166	Nov 25 1929
ANNUAL RUNOFF (AC-FT)	717200	
ANNUAL RUNOFF (CFSM)	1.23	
ANNUAL RUNOFF (INCHES)	16.77	
10 PERCENT EXCEEDS	2550	
50 PERCENT EXCEEDS	509	
90 PERCENT EXCEEDS	347	

e Estimated

SALMON RIVER BASIN

13296500 SALMON RIVER BELOW YANKEE FORK NEAR CLAYTON, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1971 to June 1974, May 1980, May to July 1999, May to June 2000 (discontinued).

SUSPENDED SEDIMENT DISCHARGE, MAY TO JUNE 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/ DAY) (80225)	NUMBER OF SAM-PLING POINTS (COUNT) (00063)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLER TYPE (CODE) (84164)	SAM-PLING METHOD, CODES (82398)	BAG MESH SIZE BEDLOAD SAMPLER (MM) (30333)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM (80226)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM (80227)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM (80228)
MAY											
01...	1736	1810	4.0	20	104	1100	1000	.250	0	0	1
01...	1817	1810	2.2	20	104	1100	1000	.250	0	0	4
01...	1900	1830	--	--	--	--	--	--	--	--	--
02...	0916	2070	3.7	20	104	1100	1000	.250	0	0	4
02...	1000	2070	2.9	20	104	1100	1000	.250	0	0	3
02...	1056	2070	--	--	--	--	--	--	--	--	--
08...	1402	1960	5.2	20	104	1100	1000	.250	0	0	0
08...	1515	1950	12	20	104	1100	1000	.250	0	0	0
08...	1630	1950	--	--	--	--	--	--	--	--	--
09...	0928	1900	9.1	20	104	1100	1000	.250	0	0	0
09...	1020	1900	5.8	20	104	1100	1000	.250	0	0	0
09...	1142	1900	--	--	--	--	--	--	--	--	--
15...	1305	1430	.40	20	104	1100	1000	.250	0	0	1
15...	1355	1420	2.1	20	104	1100	1000	.250	0	0	0
15...	1441	1420	--	--	--	--	--	--	--	--	--
16...	0734	1450	.80	20	104	1100	1000	.250	0	0	2
16...	0811	1460	2.8	20	104	1100	1000	.250	0	0	1
16...	0905	1460	--	--	--	--	--	--	--	--	--
22...	1507	2900	13	20	114	1100	1000	.250	0	0	1
22...	1518	2900	--	--	--	--	--	--	--	--	--
22...	1600	2910	8.3	20	114	1100	1000	.250	0	0	3
23...	0941	3380	53	20	114	1100	1000	.250	0	0	1
23...	1045	3390	14	20	114	1100	1000	.250	0	0	1
23...	1150	3300	--	--	--	--	--	--	--	--	--
30...	1441	3290	5.4	20	114	1100	1000	.250	0	0	4
30...	1521	3290	10	20	114	1100	1000	.250	0	0	1
30...	1651	3280	--	--	--	--	--	--	--	--	--
31...	0936	3080	6.2	20	114	1100	1000	.250	0	0	2
31...	1018	3070	3.3	20	114	1100	1000	.250	0	0	3
31...	1105	3050	--	--	--	--	--	--	--	--	--
JUN											
05...	1428	2690	5.5	20	114	1100	1000	.250	0	0	1
05...	1519	2680	5.5	20	114	1100	1000	.250	0	0	2
05...	1624	2660	--	--	--	--	--	--	--	--	--
06...	0922	2810	2.8	20	114	1100	1000	.250	0	0	2
06...	1012	2830	2.2	20	114	1100	1000	.250	0	0	3
06...	1130	2830	--	--	--	--	--	--	--	--	--
14...	1255	2530	2.3	20	114	1100	1000	.250	0	0	2
14...	1335	2540	2.1	20	114	1100	1000	.250	0	0	3
14...	1436	2530	--	--	--	--	--	--	--	--	--
15...	0841	2490	1.9	20	114	1100	1000	.250	0	0	2
15...	0921	2490	2.4	20	114	1100	1000	.250	0	0	2
15...	1020	2490	--	--	--	--	--	--	--	--	--
20...	1250	1810	--	--	--	--	--	--	--	--	--
20...	1117	1820	1.2	20	104	1100	1000	.250	0	0	4
20...	1204	1810	4.7	20	104	1100	1000	.250	0	0	2

SALMON RIVER BASIN

13296500 SALMON RIVER BELOW YANKEE FORK NEAR CLAYTON, ID--Continued

SUSPENDED SEDIMENT DISCHARGE, MAY TO JUNE 2000

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM (80229)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM (80230)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM (80231)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM (80232)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM (80233)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM (80234)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM (80235)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM (80236)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
MAY										
01...	14	41	67	80	88	100	100	100	--	--
01...	38	81	97	100	100	100	100	100	--	--
01...	--	--	--	--	--	--	--	--	11	54
02...	34	78	96	99	100	100	100	100	--	--
02...	28	69	93	98	100	100	100	100	--	--
02...	--	--	--	--	--	--	--	--	11	61
08...	25	66	84	92	95	100	100	100	--	--
08...	16	56	79	86	87	88	100	100	--	--
08...	--	--	--	--	--	--	--	--	7	37
09...	11	39	64	82	88	91	100	100	--	--
09...	10	37	63	79	86	94	100	100	--	--
09...	--	--	--	--	--	--	--	--	7	36
15...	36	75	92	97	100	100	100	100	--	--
15...	9	43	74	93	100	100	100	100	--	--
15...	--	--	--	--	--	--	--	--	5	19
16...	38	75	92	98	100	100	100	100	--	--
16...	15	55	87	95	99	100	100	100	--	--
16...	--	--	--	--	--	--	--	--	5	20
22...	10	29	46	54	62	72	76	100	--	--
22...	--	--	--	--	--	--	--	--	40	313
22...	22	56	73	81	86	92	100	100	--	--
23...	4	12	22	28	34	43	71	100	--	--
23...	14	43	62	69	72	76	100	100	--	--
23...	--	--	--	--	--	--	--	--	46	410
30...	51	84	97	99	100	100	100	100	--	--
30...	14	40	64	76	85	95	100	100	--	--
30...	--	--	--	--	--	--	--	--	14	124
31...	22	60	87	96	100	100	100	100	--	--
31...	26	62	86	96	100	100	100	100	--	--
31...	--	--	--	--	--	--	--	--	14	115
JUN										
05...	16	55	85	93	98	100	100	100	--	--
05...	19	56	83	94	99	100	100	100	--	--
05...	--	--	--	--	--	--	--	--	11	79
06...	24	63	85	92	95	100	100	100	--	--
06...	25	68	90	98	100	100	100	100	--	--
06...	--	--	--	--	--	--	--	--	13	99
14...	28	73	94	98	98	100	100	100	--	--
14...	33	80	96	99	100	100	100	100	--	--
14...	--	--	--	--	--	--	--	--	7	48
15...	33	77	94	98	100	100	100	100	--	--
15...	25	73	95	100	100	100	100	100	--	--
15...	--	--	--	--	--	--	--	--	8	54
20...	--	--	--	--	--	--	--	--	5	24
20...	32	78	96	99	100	100	100	100	--	--
20...	33	78	97	100	100	100	100	100	--	--

SALMON RIVER BASIN

13297330 THOMPSON CREEK NEAR CLAYTON, ID

LOCATION.--Lat 44°16'01", long 114°30'48", in NE¼NE¼SE¼ sec.24, T.11 N., R.16 E., Custer County, Hydrologic Unit 17060201, on right bank, 1.2 mi upstream from mouth, 2.2 mi below Pat Hughes Creek, and 5.7 mi west of Clayton.

DRAINAGE AREA.--29.1 mi^2.

PERIOD OF RECORD.--November 1972 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,700 ft above sea level, from topographic map. Prior to June 13, 1982, recording gage at site 200 ft upstream at datum 2 ft higher.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 442 ft^3/s May 15, 1997, gage height, 4.07 ft; minimum, 1.0 ft^3/s Mar. 16, 1980, gage height, 3.73 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 80 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 24	2115	*99.0	*3.95	No other peak greater than base discharge.			

Minimum, 2.0 ft^3/s Nov. 23, gage height, 2.55 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	4.0	4.4	4.5	4.1	4.3	11	44	45	11	4.3	4.0
2	4.7	3.9	4.2	4.3	4.0	4.3	11	51	40	11	4.2	5.1
3	4.7	3.9	4.0	4.7	3.9	4.6	13	57	40	11	4.3	4.9
4	4.7	4.2	2.6	4.5	3.8	4.9	19	61	40	11	4.4	4.8
5	4.7	4.6	3.5	4.1	3.9	5.6	25	58	43	10	4.5	4.6
6	4.9	4.4	4.9	e3.0	3.9	6.1	24	48	47	10	4.2	4.1
7	4.7	4.2	4.5	e3.0	3.9	6.2	20	42	45	10	4.1	4.1
8	4.7	4.0	3.4	3.9	3.9	6.0	18	37	42	9.4	4.0	3.9
9	4.6	4.0	4.2	3.9	4.0	6.2	23	35	39	8.7	4.0	3.7
10	4.6	3.9	4.3	4.0	3.9	6.1	24	33	35	8.4	4.0	3.7
11	4.6	3.9	4.1	4.0	4.0	5.9	29	31	31	8.2	3.9	4.1
12	4.5	3.9	4.1	4.3	4.0	5.5	35	28	31	7.9	4.2	3.9
13	4.5	3.8	4.2	4.3	4.0	6.0	38	26	30	7.7	3.9	3.7
14	4.5	3.7	4.0	4.1	4.2	6.1	34	26	29	7.4	3.9	3.6
15	4.4	3.6	4.1	4.1	4.1	6.0	32	26	31	7.3	4.2	3.5
16	4.4	3.7	4.2	4.1	4.0	5.9	29	28	29	7.2	3.8	3.4
17	4.4	3.7	4.1	4.1	3.8	6.0	27	34	27	7.2	4.0	3.3
18	4.5	3.7	4.2	4.0	e3.5	5.8	27	42	25	7.6	3.6	3.3
19	4.7	3.6	4.1	4.0	e2.5	6.4	29	46	23	7.9	3.5	3.3
20	4.6	3.7	4.0	4.0	e2.5	5.9	29	51	21	7.2	3.6	3.3
21	4.6	3.5	4.0	4.0	e3.5	5.8	33	59	19	7.0	3.5	3.3
22	4.5	3.1	3.0	4.1	4.1	7.1	42	74	18	6.8	3.6	3.6
23	4.5	2.7	e3.0	e3.5	4.1	9.0	39	88	17	5.9	3.5	3.6
24	4.5	4.4	e2.5	e3.5	4.1	7.9	32	93	17	5.4	3.8	3.5
25	4.5	4.9	e2.5	4.0	4.1	8.0	30	89	17	5.4	3.7	3.5
26	3.9	6.1	e2.5	4.0	4.2	9.0	28	79	15	5.3	3.5	3.4
27	3.9	5.0	e2.5	4.0	4.3	11	30	70	15	5.2	3.5	3.4
28	5.2	4.5	e3.0	e3.0	4.3	13	44	68	13	5.0	3.4	3.3
29	4.6	4.4	e3.0	e2.5	4.2	12	45	67	12	4.9	3.4	3.3
30	4.4	4.3	e3.5	e2.5	---	11	42	60	12	4.8	3.3	3.2
31	4.3	---	e4.0	e3.5	---	10	---	52	---	4.8	3.3	---
TOTAL	141.1	121.3	114.6	119.5	112.8	217.6	862	1603	848	236.6	119.1	112.4
MEAN	4.55	4.04	3.70	3.85	3.89	7.02	28.7	51.7	28.3	7.63	3.84	3.75
MAX	5.2	6.1	4.9	4.7	4.3	13	45	93	47	11	4.5	5.1
MIN	3.9	2.7	2.5	2.5	2.5	4.3	11	26	12	4.8	3.3	3.2
AC-FT	280	241	227	237	224	432	1710	3180	1680	469	236	223
CFSM	.16	.14	.13	.13	.13	.24	.99	1.78	.97	.26	.13	.13
IN.	.18	.16	.15	.15	.14	.28	1.10	2.05	1.08	.30	.15	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2000, BY WATER YEAR (WY)

MEAN	5.01	5.16	4.65	4.45	4.60	8.04	24.5	63.6	63.1	18.0	6.99	5.12
MAX	8.07	14.0	11.9	10.3	9.91	25.5	60.1	170	168	43.9	15.3	9.90
(WY)	1985	1984	1984	1984	1984	1986	1986	1997	1974	1982	1984	1984
MIN	2.87	2.47	2.85	2.46	2.24	3.13	5.34	7.88	9.56	3.45	2.14	2.07
(WY)	1980	1980	1980	1980	1980	1977	1975	1977	1994	1994	1977	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1973 - 2000	
ANNUAL TOTAL	8386.9		4608.0			
ANNUAL MEAN	23.0		12.6		17.8	
HIGHEST ANNUAL MEAN					37.9	1997
LOWEST ANNUAL MEAN					4.70	1977
HIGHEST DAILY MEAN	196	May 29	93	May 24	373	May 15 1997
LOWEST DAILY MEAN	2.5	Dec 24	2.5	Dec 24	1.4	Nov 21 1979
ANNUAL SEVEN-DAY MINIMUM	2.7	Dec 22	2.7	Dec 22	1.6	Aug 18 1977
ANNUAL RUNOFF (AC-FT)	16640		9140		12890	
ANNUAL RUNOFF (CFSM)	.79		.43		.61	
ANNUAL RUNOFF (INCHES)	10.72		5.89		8.31	
10 PERCENT EXCEEDS	68		37		49	
50 PERCENT EXCEEDS	5.2		4.5		6.1	
90 PERCENT EXCEEDS	3.6		3.5		3.2	

e Estimated

SALMON RIVER BASIN

13297350 BRUNO CREEK NEAR CLAYTON, ID

LOCATION.--Lat 44°17'56", long 114°26'50", in SW¼NE¼ sec.8, T.11 N., R.17 E., Custer County, Hydrologic Unit 17060201, U.S. Bureau of Land Management lands, on left bank, 0.2 mi upstream from mouth, and 4.8 mi northwest of Clayton.

DRAINAGE AREA.--6.29 mi^2.

PERIOD OF RECORD.--April 1971 to current year.

REVISED RECORDS.--WDR ID-76-1: 1974-75(P).

GAGE.--Water-stage recorder and cipolletti weir since 1978. Elevation of gage is 5,840 ft above sea level, from topographic map.

REMARKS.--Records poor. Flow affected at times by diversions from stream or by return flow from ground-water pumpage at mine about 2 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42 ft^3/s May 31, 1972, gage height, 2.45 ft, prior to installation of cipolletti weir in 1978; maximum gage height, 3.21 ft, June 2, 3, 1986; periods of no flow occurred Dec. 14, 1980 to Feb. 20, 1981, Mar. 4 to Apr. 10, 1982, Aug. 6-12, 1990, Oct. 18 -21, 1990, Apr. 18-20, 1991, Aug. 9-16, 31, Sept. 1, 4, 8-23, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.90 ft^3/s Apr. 8, 9, gage height, 2.32 ft; minimum daily, 0.15 ft^3/s Jan. 6, 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.30	.30	e.25	e.25	e.30	.62	.62	.45	.30	.24	.26
2	.27	.30	.30	e.25	e.30	e.30	.67	.62	.43	.30	.24	.27
3	.27	.29	.30	e.25	e.30	e.30	.72	.61	.42	.30	.24	.27
4	.27	.27	e.20	e.25	e.30	e.30	.72	.57	.40	.30	.24	.27
5	.27	.28	e.20	e.20	e.30	e.30	.78	.58	.40	.33	.24	.27
6	.27	.27	e.25	e.15	e.30	e.30	.84	.57	.41	.32	.24	.27
7	.27	.29	e.25	e.15	e.30	e.35	.84	.57	.43	.30	.24	.26
8	.27	.28	e.20	e.25	e.30	e.35	.87	.57	.43	.28	.24	.24
9	.27	.30	e.25	e.25	e.30	e.35	.88	.58	.43	.27	.24	.24
10	.27	.30	e.25	e.25	e.30	e.35	.80	.60	.43	.27	.24	.24
11	.27	.30	e.25	e.30	e.30	e.35	.67	.62	.43	.27	.24	.24
12	.27	.30	e.25	e.30	e.30	e.35	.62	.60	.41	.27	.24	.24
13	.27	.30	e.25	e.30	e.30	e.35	.65	.57	.40	.27	.24	.24
14	.27	.30	e.25	e.30	e.30	e.35	.69	.55	.40	.27	.24	.24
15	.28	.30	e.25	e.35	e.30	e.35	.72	.53	.39	.26	.24	.24
16	.30	.30	e.25	e.35	e.30	e.40	.72	.53	.37	.24	.24	.24
17	.30	.30	e.30	e.35	e.25	e.40	.70	.53	.37	.24	.24	.24
18	.28	.30	e.30	e.30	e.25	e.35	.67	.51	.37	.26	.24	.24
19	.27	.28	e.25	e.30	e.20	e.35	.69	.49	.37	.26	.24	.23
20	.27	.27	e.30	e.30	e.20	e.35	.72	.49	.38	.25	.24	.22
21	.27	.27	e.30	e.35	e.25	e.30	.72	.49	.37	.24	.24	.22
22	.27	.28	e.25	e.30	e.30	e.35	.72	.49	.37	.24	.26	.22
23	.27	.30	e.20	e.30	e.30	e.35	.67	.49	.37	.24	.26	.22
24	.27	.30	e.20	e.30	e.30	e.40	.67	.49	.37	.24	.24	.22
25	.28	.31	e.20	e.30	e.30	e.35	.67	.46	.36	.24	.24	.22
26	.30	.32	e.20	e.35	e.30	e.40	.67	.45	.34	.24	.24	.22
27	.30	.34	e.20	e.30	e.30	e.45	.67	.46	.34	.24	.24	.22
28	.32	.34	e.20	e.25	e.30	e.50	.67	.46	.34	.24	.24	.22
29	.31	.33	e.20	e.25	e.30	.64	.66	.46	.32	.24	.24	.22
30	.30	.30	e.25	e.20	---	.65	.63	.45	.30	.24	.24	.22
31	.30	---	e.25	e.20	---	.62	---	.46	---	.24	.24	---
TOTAL	8.67	8.92	7.60	8.50	8.30	11.81	21.34	16.47	11.60	8.20	7.48	7.16
MEAN	.28	.30	.25	.27	.29	.38	.71	.53	.39	.26	.24	.24
MAX	.32	.34	.30	.35	.30	.65	.88	.62	.45	.33	.26	.27
MIN	.27	.27	.20	.15	.20	.30	.62	.45	.30	.24	.24	.22
AC-FT	17	18	15	17	16	23	42	33	23	16	15	14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY)

MEAN	.39	.39	.38	.33	.38	.45	1.22	4.51	5.15	1.25	.51	.38
MAX	1.18	1.25	1.57	1.27	1.86	1.25	3.44	13.9	18.6	4.47	1.39	1.17
(WY)	1985	1984	1981	1984	1982	1984	1974	1971	1971	1982	1982	1984
MIN	.12	.11	.11	.000	.087	.19	.35	.25	.13	.11	.027	.026
(WY)	1993	1978	1995	1981	1981	1995	1990	1994	1994	1994	1992	1992

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1971 - 2000	
ANNUAL TOTAL	479.92		126.05			
ANNUAL MEAN	1.31		.34		1.20	
HIGHEST ANNUAL MEAN					3.27	1982
LOWEST ANNUAL MEAN					.22	1994
HIGHEST DAILY MEAN	14	May 30	.88	Apr 9	32	May 31 1972
LOWEST DAILY MEAN	.15	Jan 1	.15	Jan 6	.00	Dec 14 1980
ANNUAL SEVEN-DAY MINIMUM	.15	Jan 24	.20	Dec 23	.00	Dec 14 1980
ANNUAL RUNOFF (AC-FT)	952		250		871	
10 PERCENT EXCEEDS	3.5		.61		3.1	
50 PERCENT EXCEEDS	.30		.30		.39	
90 PERCENT EXCEEDS	.18		.24		.16	

e Estimated

SALMON RIVER BASIN

13297355 SQUAW CREEK BELOW BRUNO CREEK, NEAR CLAYTON, ID

LOCATION.--Lat 44°17'26", long 114°28'14", in SW¼SW¼SW¼ sec.9, T.11 N., R.17 E., Custer County, Hydrologic Unit 17060201, on left bank, 3 mi upstream from mouth and 4.5 mi northwest of Clayton.

DRAINAGE AREA.--79.0 mi^2.

PERIOD OF RECORD.--October 1972 to current year.

REVISED RECORDS.--WDR ID-76-1: 1975(P).

GAGE.--Water-stage recorder. Elevation of gage is 5,710 ft above sea level, from topographic map. Prior to June 12, 1974, at datum 2.46 ft higher.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 755 ft^3/s May 29, 1986, gage height, 6.31 ft; minimum, 3.3 ft^3/s Mar. 11, 1979, gage height, 2.49 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 180 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 24	unknown	*[a] 158	unknown	No peaks greater than base discharge.			

(a) Maximum daily discharge.

Minimum daily, 8.5 ft^3/s Aug. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	12	12	e12	e11	12	22	78	92	24	12	12
2	14	13	e12	e12	e12	e12	24	90	85	23	12	13
3	15	13	e12	e13	e12	e12	27	97	82	23	11	12
4	15	14	e11	e13	e11	e13	38	112	83	22	12	13
5	14	15	e10	e13	12	14	47	106	86	21	12	11
6	14	14	e11	e13	14	14	41	92	87	20	11	10
7	15	13	e12	e14	13	14	35	82	84	20	11	10
8	15	13	e11	16	15	e13	34	75	85	20	11	10
9	14	13	e10	15	12	e13	39	74	81	19	11	9.8
10	15	13	e10	e15	12	13	42	70	71	18	11	10
11	14	13	e11	e15	12	13	48	65	62	17	11	11
12	14	13	13	e15	12	e13	55	61	60	17	11	10
13	14	13	13	e15	e12	e13	61	57	56	16	10	9.8
14	15	12	e12	e16	12	13	55	57	50	16	10	9.6
15	14	e13	12	17	12	13	51	58	49	16	9.7	9.3
16	14	13	12	15	e12	e13	48	62	46	15	9.6	9.1
17	15	13	12	e15	e13	14	45	84	43	15	9.7	9.1
18	16	12	12	e13	e12	e14	45	99	41	17	9.6	9.1
19	13	11	12	e14	e12	14	49	104	40	17	10	9.1
20	14	e12	11	14	e12	e14	50	107	37	15	9.8	9.1
21	13	e12	12	e14	e13	e14	54	118	34	15	9.8	9.4
22	13	e11	e12	e13	13	19	63	145	32	14	9.8	10
23	13	e11	e11	e12	12	16	61	152	31	13	9.7	10
24	13	e12	e10	e13	12	e16	55	158	29	13	9.8	9.9
25	13	14	e10	12	e12	e16	52	154	29	13	9.4	10
26	13	16	e10	12	e12	18	49	144	28	13	9.2	10
27	13	13	e10	e12	12	22	54	133	27	13	9.1	9.8
28	17	e14	e10	e12	12	25	76	137	26	12	9.0	9.7
29	15	15	e10	e12	12	25	78	130	26	12	8.7	9.6
30	14	12	e11	e11	---	26	73	118	25	12	8.5	9.6
31	14	---	e11	e11	---	23	---	104	---	12	8.7	---
TOTAL	440	388	348	419	355	484	1471	3123	1607	513	316.1	304.0
MEAN	14.2	12.9	11.2	13.5	12.2	15.6	49.0	101	53.6	16.5	10.2	10.1
MAX	17	16	13	17	15	26	78	158	92	24	12	13
MIN	13	11	10	11	11	12	22	57	25	12	8.5	9.1
AC-FT	873	770	690	831	704	960	2920	6190	3190	1020	627	603
CFSM	.18	.16	.14	.17	.15	.20	.62	1.28	.68	.21	.13	.13
IN.	.21	.18	.16	.20	.17	.23	.69	1.47	.76	.24	.15	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2000, BY WATER YEAR (WY)

MEAN	11.1	11.3	10.7	10.3	10.1	15.5	42.2	117	131	36.0	13.8	11.1
MAX	17.4	21.9	19.1	23.6	16.3	35.6	86.0	280	312	94.7	24.8	18.6
(WY)	1998	1984	1998	1997	1984	1986	1986	1997	1974	1982	1999	1997
MIN	5.01	5.88	6.53	6.18	6.41	7.84	12.4	17.7	16.6	6.90	5.38	5.10
(WY)	1992	1995	1990	1995	1994	1977	1975	1977	1994	1994	1977	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1973 - 2000	
ANNUAL TOTAL	17615		9768.1			
ANNUAL MEAN	48.3		26.7		35.0	
HIGHEST ANNUAL MEAN					71.1	1997
LOWEST ANNUAL MEAN					10.9	1977
HIGHEST DAILY MEAN	330	May 29	158	May 24	640	Jun 16 1974
LOWEST DAILY MEAN	10	Dec 5	8.5	Aug 30	3.8	Nov 26 1981
ANNUAL SEVEN-DAY MINIMUM	10	Dec 23	8.9	Aug 25	4.2	Sep 6 1977
ANNUAL RUNOFF (AC-FT)	34940		19380		25360	
ANNUAL RUNOFF (CFSM)	.61		.34		.44	
ANNUAL RUNOFF (INCHES)	8.29		4.60		6.02	
10 PERCENT EXCEEDS	141		72		90	
50 PERCENT EXCEEDS	15		13		14	
90 PERCENT EXCEEDS	12		10		7.0	

e Estimated

SALMON RIVER BASIN

13302005 PAHSIMEROI RIVER AT ELLIS, ID

LOCATION.--Lat 44°41'31", long 114°02'51", in NW¼SW¼NW¼ sec.25, T.16 N., R.20 E., on Custer-Lemhi County line, Hydrologic Unit 17060202, on right bank, about 500 ft upstream from mouth, at Ellis.

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,634.96 ft above sea level.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 710 ft³/s June 4, 1986; maximum gage height, 7.37 ft, June 2, 1986, backwater from Salmon River; minimum, 89 ft³/s July 6, 7, 8, 1989, gage height, 1.18 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 389 ft³/s Nov. 18, Feb. 24, gage height, 2.46 ft; maximum gage height, 2.66 ft, May 25, backwater from Salmon River; minimum, 90 ft³/s July 10, 14, gage height, 0.83 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	221	314	359	332	317	340	307	135	e132	114	117	153
2	230	e314	358	344	326	339	309	105	e132	117	112	161
3	236	314	354	346	330	335	308	115	e134	126	114	158
4	236	315	345	345	325	336	307	133	e133	130	125	168
5	234	318	338	344	325	338	303	160	e131	130	123	157
6	247	316	345	339	324	340	300	154	e131	130	113	158
7	249	325	360	335	325	339	301	139	e134	122	111	171
8	260	335	356	340	326	331	300	134	e141	123	115	173
9	262	338	352	340	326	327	299	138	e134	121	124	167
10	262	345	356	341	327	326	297	140	e131	110	121	171
11	264	351	361	344	326	327	291	134	e134	100	118	174
12	271	351	363	337	326	323	277	128	e135	109	118	170
13	280	349	364	336	327	324	263	124	e133	108	120	175
14	285	352	359	339	333	326	268	127	e134	98	122	180
15	285	355	361	339	338	325	267	133	e135	97	120	174
16	289	356	363	343	333	323	274	131	e134	101	120	175
17	294	363	363	345	331	324	275	130	e135	106	123	173
18	293	375	365	340	328	321	262	124	e135	120	108	176
19	298	367	361	340	324	323	255	126	e133	123	111	173
20	307	365	360	341	325	319	241	e134	128	119	111	175
21	306	357	360	339	327	317	232	e135	122	117	115	178
22	302	353	357	336	334	312	224	e132	116	121	115	182
23	306	348	352	334	350	313	231	e167	114	125	118	182
24	304	351	346	335	358	310	222	e239	116	120	108	184
25	303	358	339	337	334	309	197	e286	115	117	113	185
26	305	372	336	334	330	311	184	e270	120	109	116	186
27	305	367	336	334	332	311	173	e227	119	110	119	187
28	302	359	332	331	349	316	158	e225	117	112	119	190
29	307	357	330	322	347	314	159	e247	111	112	121	187
30	309	359	329	e300	---	310	151	e220	114	111	126	182
31	315	---	328	312	---	308	---	e171	---	112	133	---
TOTAL	8667	10399	10888	10424	9603	10017	7635	4963	3833	3570	3649	5225
MEAN	280	347	351	336	331	323	254	160	128	115	118	174
MAX	315	375	365	346	358	340	309	286	141	130	133	190
MIN	221	314	328	300	317	308	151	105	111	97	108	153
AC-FT	17190	20630	21600	20680	19050	19870	15140	9840	7600	7080	7240	10360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2000, BY WATER YEAR (WY)

MEAN	288	321	299	286	292	298	235	155	218	187	161	193
MAX	501	496	427	406	374	401	355	212	417	348	219	307
(WY)	1985	1985	1985	1985	1985	1985	1985	1999	1986	1998	1998	1986
MIN	202	239	219	227	227	221	174	111	121	111	118	130
(WY)	1995	1995	1995	1993	1989	1990	1990	1992	1994	1989	2000	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1985 - 2000	
ANNUAL TOTAL	105306		88873			
ANNUAL MEAN	289		243		244	
HIGHEST ANNUAL MEAN					329	1985
LOWEST ANNUAL MEAN					196	1990
HIGHEST DAILY MEAN	560	Jun 17	375	Nov 18	710	Jun 4 1986
LOWEST DAILY MEAN	97	May 12	97	Jul 15	94	Jul 7 1989
ANNUAL SEVEN-DAY MINIMUM	110	May 11	103	Jul 11	98	Jul 6 1989
ANNUAL RUNOFF (AC-FT)	208900		176300		176800	
10 PERCENT EXCEEDS	363		351		348	
50 PERCENT EXCEEDS	316		278		241	
90 PERCENT EXCEEDS	170		117		134	

e Estimated

SALMON RIVER BASIN

13302500 SALMON RIVER AT SALMON, ID

LOCATION.--Lat 45°11'00", long 113°53'40", in NE¼NE¼ sec.6, T.21 N., R.22 E., Lemhi County, Hydrologic Unit 17060203, on left bank, 1,000 ft downstream from island, 0.4 mi upstream from Lemhi River, 0.5 mi downstream from highway bridge at Salmon, and at mile 258.9.

DRAINAGE AREA.--3,760 mi^2, approximately. Mean elevation, 7,380 ft.

PERIOD OF RECORD.--April 1912 to September 1916, July 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1043: Drainage area. WSP 1317: 1916.

GAGE.--Water-stage recorder. Datum of gage is 3,911.14 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Oct. 21, 1929, nonrecording gage at site 700 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes telemetry. Diversions above station for irrigation of about 83,800 acres, of which about 900 acres are irrigated by withdrawals from groundwater (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,700 ft^3/s June 17, 1974, gage height, 8.67 ft; maximum gage height, 10.33 ft, Feb. 7, 1985, ice jam; minimum, 242 ft^3/s Jan. 8, 1937, gage height, 1.50 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 6,120 ft^3/s May 25, gage height, 4.90 ft; maximum gage height, 5.30 ft, Dec. 30, ice jam; minimum daily, 634 ft^3/s Aug. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	1460	1440	e850	e1100	1290	1300	2560	4640	1750	804	674
2	1160	1440	1440	e900	e1300	1290	1320	2600	4140	1700	804	776
3	1180	1430	1390	e900	1350	1260	1330	2890	3860	1660	797	886
4	1180	1440	1330	e1000	1270	1270	1410	3180	3900	1620	772	942
5	1170	1500	1180	e1000	1270	1280	1550	3480	4100	1570	790	939
6	1180	1530	1200	e950	1290	1310	1780	3540	4300	1510	782	894
7	1180	1500	1380	e1000	1270	1320	1740	3250	4460	1420	769	863
8	1200	1470	1360	e1100	1260	1300	1640	3050	4550	1380	759	854
9	1200	1450	1240	e1300	1260	1250	1620	2860	4530	1330	754	829
10	1200	1440	1260	e1200	1280	1280	1730	2840	4270	1280	727	807
11	1210	1440	1340	e1200	1270	1280	1820	2770	3840	1240	704	822
12	1210	1430	1360	e1200	1270	1260	1910	2560	3500	1200	685	819
13	1210	1420	1390	e1100	1270	1220	2060	2370	3680	1150	678	793
14	1250	1410	1370	e1200	1280	1230	2310	2230	3830	1120	661	763
15	1250	1400	1300	e1300	1310	1250	2280	2120	3670	1090	666	733
16	1260	1380	1360	e1400	1290	1240	2200	2110	3720	1070	666	741
17	1270	1390	1380	1430	1270	1230	2150	2220	3530	1060	654	745
18	1280	1440	1380	1330	e1200	1240	2120	2410	3230	1060	665	742
19	1300	1410	1360	1310	e1100	1230	2140	2650	3040	1110	649	753
20	1300	1360	1330	1360	e1100	1260	2230	2980	2890	1120	678	753
21	1310	1400	1330	1340	e1200	1230	2310	3260	2700	1070	654	763
22	1300	1330	1310	1320	1330	1200	2510	3760	2550	1030	655	779
23	1300	1300	1190	1290	1330	1240	2690	4570	2450	995	660	830
24	1300	1220	1120	1260	1350	1270	2600	5350	2370	974	658	875
25	1330	1300	e1000	1320	1310	1240	2330	5900	2270	939	652	916
26	1350	1440	e900	1320	1270	1240	2190	6000	2160	913	648	919
27	1350	1550	e850	1310	1260	1280	2140	5640	2070	897	636	926
28	1370	1590	e850	1250	1300	1330	2170	5490	2000	884	634	957
29	1520	1460	e800	e1100	1320	1380	2620	5760	1910	864	645	948
30	1590	1420	e750	e900	---	1340	2680	5620	1830	831	642	946
31	1480	---	e800	e950	---	1310	---	5180	---	803	644	---
TOTAL	39530	42750	37690	36390	36680	39350	60880	111200	99990	36640	21592	24987
MEAN	1275	1425	1216	1174	1265	1269	2029	3587	3333	1182	697	833
MAX	1590	1590	1440	1430	1350	1380	2690	6000	4640	1750	804	957
MIN	1140	1220	750	850	1100	1200	1300	2110	1830	803	634	674
AC-FT	78410	84790	74760	72180	72750	78050	120800	220600	198300	72680	42830	49560

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2000, BY WATER YEAR (WY)

MEAN	1274	1305	1147	1081	1085	1130	1649	3964	5769	2751	1236	1085
MAX	1858	1967	1609	1667	1551	1702	3672	7951	11790	6515	2785	2017
(WY)	1983	1984	1984	1974	1984	1986	1943	1956	1974	1965	1965	1965
MIN	765	801	718	756	702	787	900	995	1469	590	445	402
(WY)	1938	1938	1933	1933	1933	1935	1937	1977	1992	1994	1992	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1913 - 2000	
ANNUAL TOTAL	833972		587679			
ANNUAL MEAN	2285		1606		1958	
HIGHEST ANNUAL MEAN					3163	1965
LOWEST ANNUAL MEAN					1024	1994
HIGHEST DAILY MEAN	11900	Jun 19	6000	May 26	17400	Jun 17 1974
LOWEST DAILY MEAN	750	Dec 30	634	Aug 28	328	Feb 4 1989
ANNUAL SEVEN-DAY MINIMUM	850	Dec 25	643	Aug 25	376	Sep 7 1994
ANNUAL RUNOFF (AC-FT)	1654000		1166000		1419000	
10 PERCENT EXCEEDS	5380		2920		4180	
50 PERCENT EXCEEDS	1360		1300		1260	
90 PERCENT EXCEEDS	1100		775		851	

e Estimated

SALMON RIVER BASIN

13305000 LEMHI RIVER NEAR LEMHI, ID

LOCATION.--Lat 44°56'24", long 113°38'16", in NW¼NE¼ sec.32, T.19 N., R.24 E., Lemhi County, Hydrologic Unit 17060204, on right bank, 35 ft upstream from bridge on State Highway 28, 1.4 mi south of Tendoy, 1.8 mi upstream from Agency Creek, 6.2 mi north of Lemhi, and at mile 28.8.

DRAINAGE AREA.--895 mi^2, approximately.

PERIOD OF RECORD.--November 1938 to August 1939, April 1955 to September 1963, water years 1964-67 (annual maximum), August 1967 to current year.

REVISED RECORDS.--WSP 1397: 1939.

GAGE.--Water-stage recorder. Elevation of gage is 4,960 ft above sea level, from topographic map. Prior to Aug. 25, 1967, at site 1.5 mi upstream at different datum. November 1938 to August 1939, nonrecording gage; Apr. 29, 1955 to Sept. 30, 1963, nonrecording gage and supplemental crest-stage gage; Oct. 1, 1963 to Aug. 24, 1967, crest-stage gage only.

REMARKS.--Records fair. Station equipment includes telemetry. Diversions above station for irrigation of about 25,500 acres, of which about 200 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,430 ft^3/s June 21, 1984, gage height, 7.19 ft; minimum, 31 ft^3/s Aug. 6, 1988, gage height, 2.39 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 353 ft^3/s May 29; minimum daily, 70 ft^3/s Sept. 16, 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	211	251	291	e200	e220	257	253	108	243	121	104	109
2	232	246	279	e220	e220	253	254	95	220	120	108	121
3	235	257	264	e220	e240	253	241	109	241	120	114	110
4	227	262	e210	e220	244	258	252	125	266	126	118	104
5	216	285	e210	e220	243	265	276	150	274	127	117	88
6	212	285	e220	e200	242	268	270	151	272	125	105	84
7	205	272	229	e200	242	269	251	148	265	112	108	84
8	200	272	216	e220	243	264	233	139	267	105	110	82
9	210	277	217	e220	249	257	240	133	256	114	106	81
10	217	278	214	e240	253	262	242	129	225	108	105	85
11	224	273	215	e240	251	260	231	120	204	108	105	90
12	216	270	220	e220	250	247	230	111	216	106	117	83
13	212	268	232	e220	249	255	231	95	239	117	114	79
14	221	269	e220	e240	251	259	208	101	209	124	113	81
15	228	267	e220	e240	255	257	197	132	232	134	113	71
16	243	267	230	e240	251	248	198	127	231	127	112	70
17	257	271	235	e240	243	257	202	158	194	119	114	70
18	264	278	246	e240	e220	252	193	149	178	127	113	78
19	259	285	251	e240	e220	260	181	140	191	130	111	80
20	259	286	256	246	e240	242	191	148	169	116	107	86
21	267	266	257	e240	262	242	184	165	148	108	108	81
22	268	261	249	245	271	260	182	228	148	99	112	84
23	264	e220	e240	247	272	265	192	288	159	93	116	106
24	259	232	e240	252	265	245	187	317	154	90	120	116
25	257	261	e220	254	253	249	189	341	150	103	118	120
26	253	307	e220	255	e240	259	185	319	144	112	112	116
27	251	303	e220	254	255	267	162	282	139	110	108	109
28	260	279	e220	e220	264	291	141	335	134	109	104	107
29	264	280	e200	e200	263	266	132	353	132	105	102	109
30	259	288	e200	e180	---	257	124	318	124	106	99	113
31	260	---	e200	e200	---	250	---	283	---	104	100	---
TOTAL	7410	8116	7141	7073	7171	7994	6252	5797	6024	3525	3413	2797
MEAN	239	271	230	228	247	258	208	187	201	114	110	93.2
MAX	268	307	291	255	272	291	276	353	274	134	120	121
MIN	200	220	200	180	220	242	124	95	124	90	99	70
AC-FT	14700	16100	14160	14030	14220	15860	12400	11500	11950	6990	6770	5550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

MEAN	255	278	235	231	238	260	260	310	550	298	149	164
MAX	405	379	339	319	322	357	473	816	1302	909	349	274
(WY)	1983	1984	1976	1974	1976	1998	1969	1984	1984	1975	1984	1976
MIN	125	177	171	171	175	173	130	99.5	129	63.1	57.8	68.4
(WY)	1995	1995	1995	1995	1989	1995	1994	1989	1992	1988	1988	1992

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939 - 2000	
ANNUAL TOTAL	106296		72713			
ANNUAL MEAN	291		199		270	
HIGHEST ANNUAL MEAN					479	1984
LOWEST ANNUAL MEAN					155	1989
HIGHEST DAILY MEAN	1240	Jun 17	353	May 29	2100	Jun 21 1984
LOWEST DAILY MEAN	136	May 13	70	Sep 16	34	May 5 1989
ANNUAL SEVEN-DAY MINIMUM	142	Aug 22	76	Sep 13	41	Aug 5 1988
ANNUAL RUNOFF (AC-FT)	210800		144200		195900	
10 PERCENT EXCEEDS	425		269		395	
50 PERCENT EXCEEDS	260		220		238	
90 PERCENT EXCEEDS	165		105		127	

e Estimated

SALMON RIVER BASIN

13305310 LEMHI RIVER BELOW L5 DIVERSION NEAR SALMON, ID

LOCATION.--Lat 45°07'56", long 113°47'52", in NW¼SE¼ sec.24, T.21 N., R.22 E., Lemhi County, Hydrologic Unit 17060204, on right bank 0.25 mi below Highway 28 crossing, approximately 5.75 mi southeast of Salmon.

PERIOD OF RECORD.--November 1992 to December 1999, June to September 2000.

GAGE.--Water-stage recorder. Elevation of gage is 4164.56 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are fair. Many diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft³/s June 6, 1995, gage height, 5.19 ft; minimum daily, 0.75 ft³/s July 18, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge during period October to December 1999 and June to September 2000, 381 ft³/s Nov. 26; minimum daily, 9.0 ft³/s Aug. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	248	359	---	---	---	---	---	240	56	11	15
2	146	252	352	---	---	---	---	---	206	34	11	16
3	162	261	335	---	---	---	---	---	192	26	11	11
4	165	272	e250	---	---	---	---	---	213	24	12	9.9
5	166	311	e260	---	---	---	---	---	225	27	12	9.5
6	165	318	e270	---	---	---	---	---	210	29	10	12
7	160	309	e280	---	---	---	---	---	182	28	11	12
8	152	306	e270	---	---	---	---	---	176	24	9.9	9.5
9	159	308	e260	---	---	---	---	---	170	20	10	12
10	167	306	e270	---	---	---	---	---	163	18	10	12
11	178	302	280	---	---	---	---	---	147	12	9.0	16
12	172	301	284	---	---	---	---	---	161	9.8	12	12
13	166	298	297	---	---	---	---	---	189	14	9.4	14
14	176	299	e270	---	---	---	---	---	153	11	10	17
15	187	299	e280	---	---	---	---	---	159	12	11	13
16	202	302	297	---	---	---	---	---	189	11	10	9.9
17	232	311	298	---	---	---	---	---	165	14	12	12
18	240	320	310	---	---	---	---	---	134	13	11	13
19	239	324	312	---	---	---	---	---	118	18	11	16
20	235	329	316	---	---	---	---	---	91	14	11	15
21	237	323	317	---	---	---	---	---	62	12	11	18
22	242	318	305	---	---	---	---	---	46	12	10	21
23	240	288	e270	---	---	---	---	---	45	13	18	24
24	236	290	e260	---	---	---	---	---	46	12	19	33
25	234	326	e250	---	---	---	---	---	39	12	12	42
26	226	381	e250	---	---	---	---	---	39	12	11	54
27	226	379	e250	---	---	---	---	---	38	14	10	54
28	233	349	e250	---	---	---	---	---	38	19	9.2	56
29	241	347	e250	---	---	---	---	---	47	12	10	50
30	240	353	e250	---	---	---	---	---	50	11	10	53
31	245	---	e250	---	---	---	---	---	---	11	11	---
TOTAL	6198	9330	8752	---	---	---	---	---	3933	554.8	345.5	661.8
MEAN	200	311	282	---	---	---	---	---	131	17.9	11.1	22.1
MAX	245	381	359	---	---	---	---	---	240	56	19	56
MIN	129	248	250	---	---	---	---	---	38	9.8	9.0	9.5
AC-FT	12290	18510	17360	---	---	---	---	---	7800	1100	685	1310

CAL YR 1999 TOTAL 101388.0 MEAN 278 MAX 1580 MIN 2.5 AC-FT 201100

e Estimated

SALMON RIVER BASIN

13306385 NAPIAS CREEK BELOW ARNETT CREEK NEAR LEESBURG, ID

LOCATION.--Lat 45°12'20", long 114°08'02", in SW¼NW¼SE¼ sec.29, T.22 N., R.20 E., Lemhi County, Hydrologic Unit 17060203, 20 ft below Arnett Creek, 1.6 mi southwest of Leesburg, and 12 mi northwest of Salmon.

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

GAGE.--Water-stage recorder. Elevation of gage is 6,370 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. May 1989 to Oct. 1991, gage 200 ft upstream (13306375 "Napias Creek above Arnett Creek near Leesburg"). Records are not comparable, due to inflow from Arnett Creek drainage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,010 ft³/s June 8, 1996, gage height, 7.54 ft; minimum daily, 4.5 ft³/s Jan. 3, 4, 1995.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 21	1915	*132	*6.25	No peaks greater than base discharge.			

Minimum daily, 5.5 ft³/s Jan. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	6.8	9.4	e8.0	e7.0	e7.5	12	55	65	17	9.3	8.4
2	8.4	7.5	9.2	e8.0	e7.5	e7.5	11	66	64	16	8.9	9.0
3	8.8	8.1	9.0	e8.0	e7.5	e8.5	11	71	65	16	8.5	9.0
4	9.0	8.9	8.2	e8.0	e7.5	e9.0	15	77	63	16	8.7	9.1
5	8.9	9.3	8.8	e8.0	e7.5	e9.5	18	71	63	15	9.7	9.3
6	8.9	9.5	9.1	e7.5	e7.5	9.8	16	61	58	15	9.1	8.4
7	9.1	8.8	9.1	e7.5	e7.5	9.6	14	54	53	15	8.6	7.9
8	8.8	8.6	9.3	e8.0	e7.5	9.9	15	51	50	14	8.0	7.8
9	8.5	8.6	9.1	e8.0	e7.5	9.4	16	52	48	14	8.0	8.4
10	8.5	8.5	8.8	e8.0	e7.5	8.8	17	50	44	13	8.7	8.4
11	8.3	8.5	8.8	e7.5	e7.5	8.7	19	45	43	13	8.6	9.0
12	8.0	8.5	9.2	e8.0	e7.5	8.8	23	41	44	13	8.5	8.2
13	8.0	8.4	9.4	e7.5	e8.0	9.4	31	39	44	13	8.5	7.9
14	7.9	7.9	9.2	e8.0	e8.0	9.0	31	38	38	12	8.2	7.7
15	7.9	e7.5	9.2	e8.0	e7.5	8.6	26	42	36	12	8.1	7.5
16	e7.5	e8.0	9.1	e8.0	e7.5	8.7	25	49	33	12	7.7	7.4
17	e7.5	e8.0	9.3	e8.0	e7.0	8.9	24	70	31	12	8.0	7.4
18	e8.0	e7.5	9.5	e8.0	e7.0	8.7	27	73	29	12	8.1	7.4
19	e8.0	e7.0	9.2	e7.5	e6.5	8.7	32	76	33	13	7.7	7.9
20	e8.0	e6.5	9.2	e8.0	e7.0	8.5	35	79	29	12	8.3	7.8
21	8.0	e6.0	e9.0	e8.0	e7.5	8.5	40	97	26	12	8.0	7.9
22	7.9	e6.0	8.4	e7.5	e7.5	10	48	108	25	11	7.7	8.0
23	7.9	e6.0	e8.5	e7.5	e8.0	9.5	46	105	23	11	8.1	7.6
24	8.0	e6.5	e8.5	e7.5	e8.0	9.0	36	104	22	11	8.2	7.6
25	7.9	e8.0	e8.5	e7.5	e7.5	9.1	32	110	21	10	7.8	7.7
26	8.0	9.3	e8.5	e7.5	e7.5	9.9	31	98	20	10	7.6	7.7
27	7.9	9.1	e8.5	e7.0	e7.5	11	38	87	19	10	7.5	7.4
28	8.5	8.7	e8.0	e6.5	e7.5	11	58	107	18	10	7.9	7.4
29	8.4	8.8	e8.0	e6.0	e7.5	12	54	91	18	9.9	7.8	7.4
30	8.5	9.0	e8.0	e5.5	---	10	47	81	17	9.7	7.5	7.5
31	8.7	---	e8.0	e6.0	---	11	---	73	---	9.5	7.6	---
TOTAL	256.1	239.8	274.0	234.0	216.5	288.5	848	2221	1142	389.1	254.9	240.1
MEAN	8.26	7.99	8.84	7.55	7.47	9.31	28.3	71.6	38.1	12.6	8.22	8.00
MAX	9.1	9.5	9.5	8.0	8.0	12	58	110	65	17	9.7	9.3
MIN	7.5	6.0	8.0	5.5	6.5	7.5	11	38	17	9.5	7.5	7.4
AC-FT	508	476	543	464	429	572	1680	4410	2270	772	506	476

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000, BY WATER YEAR (WY)

MEAN	9.22	8.82	8.29	7.81	7.66	9.00	21.1	98.9	105	28.1	12.7	9.74
MAX	11.4	10.6	9.88	9.95	8.94	10.7	30.2	226	216	46.7	19.2	12.9
(WY)	1998	1997	1997	1997	1999	1999	1994	1997	1996	1998	1993	1998
MIN	6.66	6.82	6.31	5.94	6.14	7.11	13.2	48.3	22.5	12.6	8.17	7.28
(WY)	1995	1995	1995	1995	1995	1995	1995	1992	1992	2000	1992	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000	
ANNUAL TOTAL	8781.8		6604.0			
ANNUAL MEAN	24.1		18.0		27.2	
HIGHEST ANNUAL MEAN					46.7	1997
LOWEST ANNUAL MEAN					14.3	1992
HIGHEST DAILY MEAN	154	May 27	110	May 25	585	Jun 9 1996
LOWEST DAILY MEAN	6.0	Nov 21	5.5	Jan 30	4.5	Jan 3 1995
ANNUAL SEVEN-DAY MINIMUM	6.5	Nov 18	6.5	Nov 18	4.9	Dec 31 1994
ANNUAL RUNOFF (AC-FT)	17420		13100		19720	
10 PERCENT EXCEEDS	56		48		68	
50 PERCENT EXCEEDS	9.4		8.8		10	
90 PERCENT EXCEEDS	8.0		7.5		7.0	

e Estimated

SALMON RIVER BASIN

13309220 MIDDLE FORK SALMON RIVER AT MIDDLE FORK LODGE NEAR YELLOW PINE, ID

LOCATION.--Lat 44°43'11", long 115°00'48", in NW¼SW¼SW¼ sec.16, T.16 N., R.12 E., Valley County, Hydrologic Unit 17060205, Boise National Forest, on left bank at Middle Fork Lodge, 300 ft upstream from Middle Fork Lodge bridge, 0.4 mi upstream from Thomas Creek, 1.8 mi downstream from Marble Creek, 29 mi southeast of Yellow Pine, and at mile 61.0.

DRAINAGE AREA.--1,040 mi^2, approximately.

PERIOD OF RECORD.--April 1973 to September 1981, March 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is,4,380 ft above sea level, from topographic map. Prior to March 1999, gage was at site 600 ft downstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,900 ft^3/s June 16, 1974, gage height, 10.80 ft, datum then in use; minimum, 190 ft^3/s Nov. 21, 1979, gage height, 1.32 ft, datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 4	1745	5,240	5.07	May 25	1015	*6,130	*5.47

Minimum daily, 240 ft^3/s Dec. 29.

REVISIONS.--The peak discharges and annual maximum (*) reported for water year 1999 have been revised as shown in the following table. Revised daily discharges, in cubic feet per second, for high water period and for late June and the month of July are given below. These figures supersede those published in the report for 1999.

Water Year	Date	Time	Discharge (ft^3/s)	Gage height (ft)
1999	May 29	1445	*13,300	*7.95
1999	June 17	0130	9,550	6.78

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	MAY	DAY	JUN	DAY	JUL
		1	8870	1	3830
		2	9790	2	3640
		3	9920	3	3380
		4	9670	4	3140
		5	8930	5	2920
		6	8340	6	2770
				7	2760
				8	2710
				9	2560
				10	2460
				11	2370
				12	2300
				13	2230
				14	2140
				15	2040
				16	1940
				17	1850
				18	1760
				19	1700
				20	1650
				21	1590
		22	7350	22	1540
		23	6600	23	1490
		24	6170	24	1440
25	9820	25	5960	25	1420
26	11200	26	5350	26	1380
27	11100	27	4770	27	1340
28	10800	28	4330	28	1300
29	12500	29	4080	29	1270
30	12400	30	3960	30	1240
31	9600			31	1210
TOTAL	170400	TOTAL	213410	TOTAL	65370
MEAN	5497	MEAN	7114	MEAN	2109
MAX	12500	MAX	9920	MAX	3830
MIN	2810	MIN	3960	MIN	1210
AC-FT	338000	AC-FT	423300	AC-FT	129700

13309220 MIDDLE FORK SALMON RIVER AT MIDDLE FORK LODGE NEAR YELLOW PINE, ID--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e600	599	654	e400	e600	e500	e750	e3500	3750	e1300	e650	512
2	e600	e550	613	e400	e600	e480	e800	e4100	3500	e1200	e600	613
3	e600	e550	567	e380	e550	e480	e1000	4570	3500	e1200	e600	684
4	e600	599	403	e460	e500	e500	1290	5020	e3600	e1200	e600	637
5	e600	775	e440	e480	e500	e600	e1600	4970	3870	e1100	e600	620
6	e550	788	642	e420	e480	e650	1460	4450	e4000	e1100	e600	588
7	e650	693	590	522	e480	e650	1250	3850	e4000	e1100	e600	e550
8	e600	e600	503	631	e480	e600	1190	3520	e4000	e1100	e550	e550
9	591	e600	518	595	e500	e600	1280	3500	e3600	e1000	e550	e500
10	588	588	563	567	e500	596	1440	e3400	3280	e1000	e550	539
11	e550	591	552	568	e500	e550	1600	3050	2960	e950	e550	e600
12	e550	583	570	511	e500	e500	1810	2780	3120	e950	e550	e550
13	e550	e550	577	485	e500	e550	2140	e2600	3890	e900	e550	e550
14	e550	e550	519	575	564	e550	2360	e2500	e3200	e850	e500	e500
15	554	547	535	602	e500	e500	2120	2710	e3000	e850	e500	e500
16	557	e500	545	599	e460	e500	1920	2870	e2800	e850	e500	e500
17	555	550	544	e550	480	e500	1800	3150	e2500	e850	e500	e500
18	e550	557	559	545	e380	e500	e1850	3540	e2300	e850	e500	e500
19	569	e500	522	e500	e400	e550	2150	3930	e2200	e900	e500	e480
20	565	567	532	e550	482	e500	2380	4230	e2000	e800	e500	e480
21	562	515	532	e500	e550	506	2650	4570	e2000	e800	e500	e480
22	557	492	414	e500	566	e550	3290	5360	e1900	e750	e500	e500
23	552	409	371	499	e550	e600	3350	6000	e1800	e750	e500	e500
24	545	536	e360	e500	e500	e600	2960	5940	e1700	e700	e500	e500
25	546	604	e300	e550	e480	e600	e2600	5910	e1600	e700	e500	e500
26	543	847	e280	e500	e480	e650	e2400	5640	e1600	e700	e480	e500
27	550	935	e260	e450	e500	e750	e2400	5170	e1500	e700	e480	e500
28	866	765	e260	e360	e500	921	3280	5320	e1400	e650	e480	e480
29	911	686	e240	e320	e500	e800	e3400	5210	e1400	e650	e480	e480
30	699	671	e260	e380	---	e700	e3300	4710	e1300	e650	e480	e480
31	644	---	e280	e480	---	e700	---	4220	---	e650	e480	---
TOTAL	18504	18297	14505	15379	14582	18233	61820	130290	81270	27750	16430	15873
MEAN	597	610	468	496	503	588	2061	4203	2709	895	530	529
MAX	911	935	654	631	600	921	3400	6000	4000	1300	650	684
MIN	543	409	240	320	380	480	750	2500	1300	650	480	480
AC-FT	36700	36290	28770	30500	28920	36170	122600	258400	161200	55040	32590	31480
CFSM	.57	.59	.45	.48	.48	.57	1.98	4.04	2.60	.86	.51	.51
IN.	.66	.65	.52	.55	.52	.65	2.21	4.66	2.91	.99	.59	.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2000, BY WATER YEAR (WY)

MEAN	614	643	555	549	505	593	1378	4164	5161	1932	834	644
MAX	835	1145	717	1075	719	855	2061	6399	13130	4455	1439	859
(WY)	1976	1974	1976	1974	1974	1974	2000	1976	1974	1974	1974	1974
MIN	427	408	420	422	411	407	584	957	1126	493	354	396
(WY)	1978	1980	1977	1980	1977	1980	1979	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1973 - 2000	
ANNUAL TOTAL	432933			
ANNUAL MEAN	1183		1479	
HIGHEST ANNUAL MEAN			2697	1974
LOWEST ANNUAL MEAN			581	1977
HIGHEST DAILY MEAN	6000	May 23	20700	Jun 16 1974
LOWEST DAILY MEAN	240	Dec 29	240	Dec 29 1999
ANNUAL SEVEN-DAY MINIMUM	269	Dec 25	260	Sep 9 1977
ANNUAL RUNOFF (AC-FT)	858700		1072000	
ANNUAL RUNOFF (CFSM)	1.14		1.42	
ANNUAL RUNOFF (INCHES)	15.49		19.32	
10 PERCENT EXCEEDS	3320		4180	
50 PERCENT EXCEEDS	591		677	
90 PERCENT EXCEEDS	480		430	

e Estimated

SALMON RIVER BASIN

13310199 MIDDLE FORK SALMON RIVER AT MOUTH NEAR SHOUP, ID

LOCATION.--Lat 45°17'38", long 114°35'43", in SE¼NE¼ sec.28, T.23 N., R.15 E., Lemhi County, Hydrologic Unit 17060206, on right bank, about 0.3 mi upstream from mouth.

DRAINAGE AREA.--2,830 mi^2, approximately.

PERIOD OF RECORD.--October 1993 to current year.

REVISED RECORDS.--WDR-ID-99-2: 1994, 1995, 1996, 1997.

GAGE.--Water-stage recorder. Elevation of gage is 3,040 ft above sea level, from topographic map.

REMARKS.--Records are good to 2,000 ft^3/s, fair to 10,000 ft^3/s and poor above 10,000 ft^3/s. Estimated daily discharges are fair. Station equipment includes satellite telemetry. No regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 28,600 ft^3/s May 17, 1997; minimum daily, 400 ft^3/s Dec. 31, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 11,500 ft^3/s May 23, 24; minimum daily, 550 ft^3/s Dec. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1250	1230	1270	e800	e1300	1040	1420	6020	7580	2420	1270	1020
2	1240	1170	1230	e750	e1200	1030	1490	6940	6920	2330	1250	1110
3	1230	1160	1190	e700	e1100	1020	1690	7920	6890	2270	1220	1230
4	1230	1170	1020	e750	e1100	1070	2000	8560	7240	2240	1230	1230
5	1220	1340	711	e800	1070	1170	2630	8740	7700	2160	1230	1210
6	1210	1500	1090	e800	1050	1290	2730	8000	8150	2170	1200	1190
7	1250	1420	1290	e850	1020	1330	2370	6970	8160	2120	1170	1120
8	1250	1310	1110	e900	996	1320	2120	6290	8180	2050	1160	1090
9	1220	1250	971	e950	997	1270	2150	6030	7690	1990	1160	1070
10	1200	1210	1100	e900	997	1240	2320	6010	6890	1930	1150	1060
11	1200	1190	1120	e900	978	1200	2550	5510	6150	1880	1160	1120
12	1190	1190	1150	e900	1010	1150	2940	4990	5700	1830	1140	1150
13	1170	1180	1200	e850	1000	1100	3650	4590	6900	1790	1130	1100
14	1170	1160	1100	e900	1010	1120	4450	4340	6320	1740	1120	1060
15	1140	1130	1070	e950	1080	1140	4100	4410	5930	1690	1120	1040
16	1130	1120	1120	e1000	e1000	1110	3610	4710	5690	1670	1100	1020
17	1130	1110	1130	e1100	e950	1120	3290	5610	5140	1640	1100	1010
18	1140	1160	1130	1080	e800	1110	3210	6500	4700	1660	1100	1000
19	1150	1120	1130	1050	e700	1100	3760	7360	4510	1730	1070	998
20	1140	1110	1070	1070	e750	1120	4240	7970	4230	1680	1070	994
21	1140	1150	1080	1080	e1000	1030	4540	8540	3930	1610	1080	986
22	1140	1040	1020	1040	e950	1050	5640	10300	3770	1550	1080	987
23	1130	974	743	989	e950	1160	6120	11500	3660	1500	1070	1010
24	1130	879	e650	1010	1070	1270	5540	11500	3460	1460	1070	1020
25	1120	1210	e650	1070	1010	1220	4820	11300	3260	1430	1080	1010
26	1120	1390	e650	1050	977	1260	4360	11000	3080	1410	1050	1010
27	1130	1650	e600	1010	1000	1370	4060	10200	2920	1380	1030	994
28	1240	1490	e600	936	1040	1630	5060	10200	2770	1350	1010	982
29	1680	1310	e600	e800	1040	1690	6160	10400	2620	1320	1020	979
30	1440	1270	e550	e650	---	1540	5990	9490	2510	1300	1010	981
31	1290	---	e650	e800	---	1440	---	8500	---	1290	1010	---
TOTAL	37420	36593	29995	28435	29145	37710	109010	240400	162650	54590	34660	31781
MEAN	1207	1220	968	917	1005	1216	3634	7755	5422	1761	1118	1059
MAX	1680	1650	1290	1100	1300	1690	6160	11500	8180	2420	1270	1230
MIN	1120	879	550	650	700	1020	1420	4340	2510	1290	1010	979
AC-FT	74220	72580	59500	56400	57810	74800	216200	476800	322600	108300	68750	63040
CFSM	.42	.42	.33	.32	.35	.42	1.26	2.68	1.88	.61	.39	.37
IN.	.48	.47	.39	.37	.38	.49	1.40	3.09	2.09	.70	.45	.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

MEAN	1187	1203	1163	1185	1131	1497	3210	9495	11120	3903	1647	1272
MAX	1420	1642	2211	2452	1632	2042	4308	16520	17400	5558	2068	1622
(WY)	1998	1997	1996	1997	1996	1997	1996	1997	1996	1995	1997	1997
MIN	762	728	666	794	759	949	2186	4953	2748	1290	845	683
(WY)	1995	1995	1995	1995	1994	1994	1995	1994	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000	
ANNUAL TOTAL	1227989		832389			
ANNUAL MEAN	3364		2274		3172	
HIGHEST ANNUAL MEAN					4648	1997
LOWEST ANNUAL MEAN					1524	1994
HIGHEST DAILY MEAN	22600	May 30	11500	May 23	28600	May 17 1997
LOWEST DAILY MEAN	550	Dec 30	550	Dec 30	400	Dec 31 1994
ANNUAL SEVEN-DAY MINIMUM	614	Dec 24	614	Dec 24	557	Dec 28 1994
ANNUAL RUNOFF (AC-FT)	2436000		1651000		2298000	
ANNUAL RUNOFF (CFSM)	1.16		.79		1.10	
ANNUAL RUNOFF (INCHES)	15.81		10.71		14.91	
10 PERCENT EXCEEDS	9750		6060		8260	
50 PERCENT EXCEEDS	1380		1190		1430	
90 PERCENT EXCEEDS	956		965		828	

e Estimated

SALMON RIVER BASIN

13310700 SOUTH FORK SALMON RIVER NEAR KRASSEL RANGER STATION, ID

LOCATION.--Lat 44°59'14", long 115°43'27", in NE¼SW¼NE¼ sec.16, T.19 N., R.6 E., Valley County, Hydrologic Unit 17060208, Payette National Forest, on right bank, 0.6 mi upstream from Fitsum Creek, 1.4 mi downstream from Krassel Ranger station, 2 mi upstream from mouth of East Fork of South Fork Salmon River, 20 mi east of McCall, and at mile 39.7.

DRAINAGE AREA.--330 mi^2.

PERIOD OF RECORD.--October 1966 to September 1982, April 1985 to September 1986, February 1989 to current year.

REVISED RECORDS.--WSP 1397: 1939.

GAGE.--Water-stage recorder. Elevation of gage is 3,750 ft above sea level, 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, 6,740 ft^3/s June 17, 1974, gage height, 10.00 ft; minimum, 38 ft^3/s Nov. 27, 1976, gage height, 1.11 ft, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 28, 1948, reached a discharge of 5,200 ft^3/s by slope-area measurement at site 2.3 mi upstream.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 14	0215	1,520	4.89	May 23	0415	*2,560	*6.14
Apr. 23	0315	1,660	5.09	June 6	0245	1,790	5.26
May 4	0715	2,020	5.54	June 13	0045	2,170	5.72

Minimum daily, 95 ft^3/s Jan. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	150	245	e140	e170	223	330	1310	1350	478	169	113
2	132	141	231	e130	e180	214	366	1560	1290	459	165	151
3	132	143	203	e120	170	e190	462	1730	1380	437	161	200
4	132	142	e160	e130	157	e200	572	1970	1480	417	159	158
5	129	237	e160	e130	155	e200	794	1910	1640	395	159	196
6	129	303	e200	e120	153	e220	736	1690	1690	384	157	193
7	136	215	e190	e130	153	e200	619	1480	1660	366	151	152
8	136	183	175	e130	154	e200	590	1390	1650	350	147	139
9	131	170	e180	e120	159	e200	637	1410	1420	337	145	132
10	128	162	190	e120	166	e200	674	1370	1280	323	142	131
11	128	168	185	e130	171	e200	747	1220	1160	308	138	153
12	126	165	186	e120	176	e200	857	1130	1370	297	136	144
13	123	157	e180	e110	175	e200	1140	1060	1780	284	135	134
14	122	151	176	e120	199	221	1360	1010	1370	272	133	128
15	122	147	179	e130	e180	217	1160	1030	1330	262	131	124
16	122	145	183	e130	e170	213	1050	1060	1200	259	130	121
17	123	147	184	e130	e160	213	972	1280	1060	252	129	120
18	128	152	188	e130	e150	202	975	1370	972	250	127	119
19	129	144	180	e130	e160	237	1040	1570	926	245	124	117
20	128	162	174	e130	e170	220	1080	1670	848	236	124	116
21	128	156	168	e130	200	208	1220	1820	799	227	125	115
22	127	143	e130	e130	188	217	1450	2240	777	218	124	117
23	126	119	e110	e120	196	256	1560	2400	746	210	122	120
24	124	143	e120	e130	202	263	1330	2220	722	204	120	119
25	123	174	e110	e130	188	262	1200	2250	681	199	118	119
26	122	631	e110	e130	e180	269	1120	2130	636	195	115	118
27	129	560	e120	e120	211	299	1090	1960	598	190	114	117
28	288	319	e120	e110	237	393	1340	2030	565	186	113	115
29	256	263	e120	e95	231	383	1300	1950	534	181	112	114
30	174	246	e120	e100	---	348	1230	1730	504	178	112	113
31	158	---	e130	e140	---	330	---	1550	---	173	111	---
TOTAL	4324	6138	5107	3865	5161	7398	29001	50500	33418	8772	4148	4008
MEAN	139	205	165	125	178	239	967	1629	1114	283	134	134
MAX	288	631	245	140	237	393	1560	2400	1780	478	169	200
MIN	122	119	110	95	150	190	330	1010	504	173	111	113
AC-FT	8580	12170	10130	7670	10240	14670	57520	100200	66280	17400	8230	7950
CFSM	.42	.62	.50	.38	.54	.72	2.93	4.94	3.38	.86	.41	.40
IN.	.49	.69	.58	.44	.58	.83	3.27	5.69	3.77	.99	.47	.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2000, BY WATER YEAR (WY)

MEAN	151	201	219	233	226	303	674	1752	1851	565	194	152
MAX	275	557	763	860	629	754	1210	3208	4186	1307	313	216
(WY)	1976	1974	1996	1997	1996	1986	1997	1997	1974	1982	1974	1970
MIN	84.0	103	96.3	89.5	105	117	202	390	336	137	85.1	72.6
(WY)	1992	1993	1993	1993	1994	1977	1975	1977	1992	1977	1994	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1967 - 2000	
ANNUAL TOTAL	237248		161840			
ANNUAL MEAN	650		442		552	
HIGHEST ANNUAL MEAN					974	1974
LOWEST ANNUAL MEAN					180	1977
HIGHEST DAILY MEAN	4890	May 29	2400	May 23	6200	Jun 16 1974
LOWEST DAILY MEAN	110	Dec 23	95	Jan 29	58	Nov 28 1976
ANNUAL SEVEN-DAY MINIMUM	116	Dec 23	113	Aug 26	70	Sep 22 1994
ANNUAL RUNOFF (AC-FT)	470600		321000		399900	
ANNUAL RUNOFF (CFSM)	1.97		1.34		1.67	
ANNUAL RUNOFF (INCHES)	26.74		18.24		22.73	
10 PERCENT EXCEEDS	1880		1350		1560	
50 PERCENT EXCEEDS	190		183		217	
90 PERCENT EXCEEDS	130		120		116	

e Estimated

SALMON RIVER BASIN

13313000 JOHNSON CREEK AT YELLOW PINE, ID

LOCATION.--Lat 44°57'44", long 115°29'58", in NE¼ sec.29, T.19 N., R.8 E., Valley County, Boise National Forest, Hydrologic Unit 17060208, on right bank 700 ft upstream from mouth and 0.2 mi southwest of Yellow Pine.

DRAINAGE AREA.--213 mi^2. Mean elevation, 7,170 ft.

PERIOD OF RECORD.--August 1928 to current year.

REVISED RECORDS.--WDR ID-83-1: 1982(M).

GAGE.--Water-stage recorder. Datum of gage is 4,655.75 ft above sea level. Prior to July 19, 1977, at site 385 ft upstream at datum 1.95 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Station equipment includes satellite telemetry. Small diversion from Johnson Creek to Deadwood River until September 20, 1988 (see REMARKS for sta 13236000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,230 ft^3/s June 17, 1974, gage height, 8.32 ft; minimum, 21 ft^3/s Nov. 30, 1954, Nov. 20, 1979, Nov. 18, 1988; minimum gage height, 0.66 ft, Nov. 30, 1954, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 22	2330	*2,080	*5.20	No other peak greater than base discharge.			

Minimum, 40 ft^3/s Jan. 29, gage height, 1.87 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	82	118	86	84	77	119	1070	1060	328	106	83
2	77	82	111	83	87	76	132	1320	1080	311	104	104
3	77	84	98	76	81	77	157	1400	1170	300	101	123
4	77	86	69	82	78	78	198	1590	1220	292	102	105
5	76	138	81	82	78	82	263	1430	1300	276	109	117
6	76	186	105	75	77	85	263	1200	1300	282	112	106
7	80	141	98	83	76	85	238	1060	1280	266	106	92
8	80	118	84	83	77	82	242	1040	1250	250	102	86
9	76	106	88	82	77	84	277	1050	1100	238	99	83
10	75	99	92	81	76	83	298	1000	984	227	96	82
11	75	98	90	83	78	85	351	866	896	216	98	93
12	73	98	93	79	77	79	420	785	1100	207	94	88
13	71	94	92	76	77	85	547	732	1270	196	92	82
14	71	90	85	83	83	86	611	726	1010	187	94	80
15	71	84	87	84	81	83	549	817	975	180	91	80
16	69	84	89	85	77	82	506	898	868	178	90	82
17	68	86	89	83	75	83	476	1080	773	172	89	84
18	73	83	91	80	67	80	519	1150	717	173	89	83
19	71	78	87	80	69	89	594	1270	682	177	87	81
20	72	91	87	81	75	81	642	1330	629	166	88	81
21	71	70	86	80	83	79	718	1480	591	155	81	83
22	70	78	67	78	79	86	930	1770	569	147	82	82
23	70	61	65	75	80	96	979	1840	541	140	83	79
24	69	84	71	82	79	89	805	1740	503	134	78	75
25	69	90	70	81	75	92	737	1750	472	130	81	73
26	68	176	70	81	77	96	663	1640	443	127	76	73
27	72	198	73	75	80	104	735	1520	417	124	79	72
28	156	146	74	61	80	121	1010	1630	392	119	79	71
29	141	127	73	56	78	112	956	1510	369	116	78	70
30	103	122	71	67	---	111	921	1330	349	113	78	70
31	94	---	82	80	---	111	---	1200	---	109	79	---
TOTAL	2470	3160	2636	2443	2261	2739	15856	39224	25310	6036	2823	2563
MEAN	79.7	105	85.0	78.8	78.0	88.4	529	1265	844	195	91.1	85.4
MAX	156	198	118	86	87	121	1010	1840	1300	328	112	123
MIN	68	61	65	56	67	76	119	726	349	109	76	70
AC-FT	4900	6270	5230	4850	4480	5430	31450	77800	50200	11970	5600	5080
CFSM	.38	.50	.40	.37	.37	.42	2.50	6.00	4.00	.92	.43	.40
IN.	.44	.56	.46	.43	.40	.48	2.80	6.92	4.46	1.06	.50	.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2000, BY WATER YEAR (WY)

MEAN	96.9	102	95.2	88.9	85.2	96.9	314	1279	1403	382	122	89.5
MAX	350	269	340	270	231	245	1098	2342	3529	1034	230	140
(WY)	1963	1963	1996	1997	1963	1934	1934	1956	1974	1974	1974	1965
MIN	43.4	49.0	46.8	49.9	51.6	57.1	69.1	295	247	77.4	45.2	39.7
(WY)	1989	1930	1989	1937	1937	1937	1975	1977	1987	1931	1931	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1928 - 2000	
ANNUAL TOTAL	145999		107521			
ANNUAL MEAN	400		294		347	
HIGHEST ANNUAL MEAN					622	1974
LOWEST ANNUAL MEAN					123	1977
HIGHEST DAILY MEAN	3660	May 29	1840	May 23	5440	Jun 17 1974
LOWEST DAILY MEAN	56	Jan 25	56	Jan 29	28	Dec 15 1988
ANNUAL SEVEN-DAY MINIMUM	66	Feb 10	70	Oct 20	36	Sep 1 1931
ANNUAL RUNOFF (AC-FT)	289600		213300		251100	
ANNUAL RUNOFF (CFSM)	1.90		1.39		1.64	
ANNUAL RUNOFF (INCHES)	25.74		18.96		22.32	
10 PERCENT EXCEEDS	1360		1010		1090	
50 PERCENT EXCEEDS	102		90		106	
90 PERCENT EXCEEDS	69		73		61	

SALMON RIVER BASIN

13314300 SOUTH FORK SALMON RIVER AT MOUTH NEAR MACKAY BAR, ID

LOCATION.--Lat 45°22'00", long 116°30'43", in sec.8, T.23 N., R.8 E. (unsurveyed, from USGS topographic map), Idaho County, Hydrologic Unit 17060208, on left bank, 1.0 mi south of Mackay Bar landing strip, and at mile 0.8.

DRAINAGE AREA.--1,310 mi^2, approximately.

PERIOD OF RECORD.--October 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,980 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,500 ft^3/s May 17, 1997, gage height, 18.19 ft; minimum, 184 ft^3/s Dec. 21, 1999, gage height, 8.72 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 4	1000	7,680	14.18	June 6	0500	7,340	14.04
May 23	0630	*10,200	*15.12	June 13	0330	7,700	14.19

Minimum, 277 ft^3/s Jan. 30, gage height, 8.92 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	548	605	810	692	675	737	972	4550	5440	1890	647	397
2	536	552	767	658	657	716	1050	5610	5170	1830	628	486
3	532	555	729	577	618	701	1260	6270	5580	1750	609	665
4	531	562	570	552	570	706	1550	7230	5980	1680	600	613
5	527	669	456	581	561	754	2090	6970	6550	1580	593	675
6	520	1040	698	559	554	827	2080	6080	6860	1550	588	789
7	544	921	722	523	547	871	1840	5280	6720	1490	568	610
8	554	753	648	609	545	849	1720	4970	6790	1410	550	536
9	536	685	583	606	557	810	1820	4990	5930	1370	539	501
10	522	642	644	587	570	783	1990	4950	5270	1310	528	488
11	515	637	639	588	577	761	2200	4410	4800	1240	514	542
12	508	648	635	595	598	728	2540	4030	4820	1180	503	562
13	495	627	694	559	603	699	3210	3800	6640	1130	496	509
14	490	601	627	595	634	714	4020	3670	5210	1070	486	477
15	484	580	617	663	873	709	3580	3820	5080	1030	479	457
16	485	564	637	673	801	688	3250	4030	4680	1020	469	441
17	485	570	648	734	718	688	3010	4940	4130	994	464	434
18	495	591	677	670	638	672	3050	5250	3800	992	460	425
19	510	552	665	628	560	716	3280	5980	3670	997	449	421
20	498	588	630	614	552	712	3500	6440	3390	973	444	417
21	502	601	622	612	688	663	3880	6980	3170	921	447	417
22	496	520	562	583	660	674	4680	8760	3100	869	447	414
23	490	497	432	566	657	772	5000	9570	2990	823	439	421
24	487	483	417	560	690	822	4320	8890	2800	793	431	424
25	482	621	466	587	655	798	3910	8890	2650	772	428	422
26	481	1130	486	577	628	824	3620	8420	2490	754	420	419
27	501	1620	457	549	684	891	3550	7780	2340	732	405	413
28	907	1060	474	486	768	1080	4530	8160	2210	711	396	406
29	1160	864	476	388	765	1110	4460	8020	2100	694	395	401
30	754	812	475	318	---	1030	4210	7070	1980	679	391	401
31	650	---	502	461	---	971	---	6300	---	666	390	---
TOTAL	17225	21150	18465	17950	18603	24476	90172	192110	132340	34900	15203	14583
MEAN	556	705	596	579	641	790	3006	6197	4411	1126	490	486
MAX	1160	1620	810	734	873	1110	5000	9570	6860	1890	647	789
MIN	481	483	417	318	545	663	972	3670	1980	666	390	397
AC-FT	34170	41950	36630	35600	36900	48550	178900	381100	262500	69220	30160	28930

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

MEAN	573	746	873	894	846	1156	2507	7218	7875	2405	855	594
MAX	677	1267	2147	2475	1644	1642	3298	11510	11500	3494	1078	739
(WY)	1996	1997	1996	1997	1996	1995	1997	1997	1996	1995	1997	1998
MIN	408	397	438	426	403	511	1652	3590	2092	758	405	318
(WY)	1995	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000	
ANNUAL TOTAL	895114		597177			
ANNUAL MEAN	2452		1632		2214	
HIGHEST ANNUAL MEAN					3125	1997
LOWEST ANNUAL MEAN					963	1994
HIGHEST DAILY MEAN	17800	May 29	9570	May 23	20000	May 17 1997
LOWEST DAILY MEAN	417	Dec 24	318	Jan 30	189	Nov 23 1994
ANNUAL SEVEN-DAY MINIMUM	458	Dec 23	399	Aug 26	299	Sep 23 1994
ANNUAL RUNOFF (AC-FT)	1775000		1185000		1604000	
10 PERCENT EXCEEDS	7780		4960		5990	
50 PERCENT EXCEEDS	786		672		869	
90 PERCENT EXCEEDS	527		459		450	

SALMON RIVER BASIN

13316500 LITTLE SALMON RIVER AT RIGGINS, ID

LOCATION.--Lat 45°24'47", long 116°19'29", in SE¼SW¼ sec.15, T.24 N., R.1 E., Idaho County, Hydrologic Unit 17060210, on right bank, 14 ft upstream from road bridge, at mile 0.5, and 0.8 mi southwest of Riggins.

DRAINAGE AREA.--576 mi^2. Mean elevation, 5,430 ft.

PERIOD OF RECORD.--February 1951 to February 1955, September 1956 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,760 ft above sea level, from topographic map. Prior to Sept. 28, 1984, at site 250 ft upstream at different datum.

REMARKS.--Records fair. Station equipment includes telemetry. Diversions above station for irrigation of about 15,300 acres, (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft^3/s June 17, 1974, gage height, 11.05 ft, from floodmark; maximum gage height, 12.39 ft, June 13, 1953, site and datum then in use; minimum, 54 ft^3/s Dec. 21, 1990, gage height, 2.71 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood about June 1, 1948, reached a discharge of 9,200 ft^3/s, by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 22	0130	2,410	6.00	May 22	2300	*3,660	*7.21
May 4	0200	3,180	6.77	June 5	2245	2,380	5.97

Minimum daily, 155 ft^3/s Aug. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	216	218	320	226	252	671	864	1910	1570	517	198	190
2	215	209	312	219	248	638	915	2370	1620	527	195	316
3	218	207	287	211	246	587	1090	2490	1800	510	191	445
4	212	204	220	219	248	583	1220	2810	1880	483	187	330
5	206	210	238	219	242	646	1430	2370	2020	457	187	348
6	204	295	268	212	242	715	1330	2060	2000	448	185	349
7	206	272	263	215	241	764	1140	1860	1900	431	184	265
8	204	240	250	218	243	733	1070	1870	1940	407	176	231
9	203	225	245	219	252	665	1160	1890	1810	400	173	217
10	202	219	248	220	264	588	1290	1850	1570	381	172	212
11	200	236	246	225	281	566	1410	1660	1450	365	170	228
12	198	236	253	226	312	543	1600	1540	1630	348	168	221
13	196	224	290	223	319	514	1940	1450	1960	333	168	209
14	197	215	274	235	390	557	2280	1440	1660	317	163	201
15	195	209	259	241	565	655	2030	1620	1580	305	166	194
16	196	206	269	295	497	641	1820	1900	1400	297	163	188
17	194	228	285	331	443	579	1700	2710	1230	293	161	185
18	192	233	305	309	395	524	1770	2620	1130	286	156	182
19	189	219	296	301	357	614	1880	2610	1060	286	156	178
20	184	231	282	297	356	613	1880	2580	965	277	158	175
21	180	224	269	295	380	543	2040	2760	901	268	e160	175
22	178	217	241	285	358	569	2290	3130	863	260	e160	175
23	175	201	221	277	452	778	2180	2930	816	247	e160	174
24	173	206	226	272	545	960	1830	2680	743	237	e160	173
25	173	235	223	279	493	840	1660	2620	703	235	e160	167
26	177	449	221	279	467	793	1560	2400	663	230	165	164
27	204	544	220	245	601	937	1600	2310	629	224	163	162
28	440	379	219	212	786	1180	2060	2420	598	215	162	160
29	348	326	213	203	761	1080	1780	2270	563	208	158	158
30	269	314	204	215	---	902	1690	1970	540	203	157	159
31	237	---	218	255	---	858	---	1770	---	202	155	---
TOTAL	6581	7631	7885	7678	11236	21836	48509	68870	39194	10197	5237	6531
MEAN	212	254	254	248	387	704	1617	2222	1306	329	169	218
MAX	440	544	320	331	786	1180	2290	3130	2020	527	198	445
MIN	173	201	204	203	241	514	864	1440	540	202	155	158
AC-FT	13050	15140	15640	15230	22290	43310	96220	136600	77740	20230	10390	12950
CFSM	.37	.44	.44	.43	.67	1.22	2.81	3.86	2.27	.57	.29	.38
IN.	.43	.49	.51	.50	.73	1.41	3.13	4.45	2.53	.66	.34	.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

MEAN	241	291	327	332	394	676	1326	2379	2381	704	261	225
MAX	752	915	1030	1501	962	2026	2481	4042	5109	1771	489	379
(WY)	1963	1974	1996	1974	1996	1983	1952	1952	1974	1982	1975	1959
MIN	104	122	130	126	139	180	377	628	309	165	105	105
(WY)	1988	1988	1993	1991	1994	1977	1977	1977	1992	1977	1992	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000	
ANNUAL TOTAL	359977		241385			
ANNUAL MEAN	986		660		796	
HIGHEST ANNUAL MEAN					1393	1974
LOWEST ANNUAL MEAN					260	1977
HIGHEST DAILY MEAN	5200	May 25	3130	May 22	9650	Jun 17 1974
LOWEST DAILY MEAN	173	Oct 24	155	Aug 31	60	Dec 21 1990
ANNUAL SEVEN-DAY MINIMUM	177	Oct 20	159	Aug 18	95	Dec 20 1990
ANNUAL RUNOFF (AC-FT)	714000		478800		576700	
ANNUAL RUNOFF (CFSM)	1.71		1.15		1.38	
ANNUAL RUNOFF (INCHES)	23.25		15.59		18.78	
10 PERCENT EXCEEDS	2690		1880		2190	
50 PERCENT EXCEEDS	367		286		335	
90 PERCENT EXCEEDS	211		175		162	

e Estimated

SALMON RIVER BASIN

13317000 SALMON RIVER AT WHITE BIRD, ID

LOCATION.--Lat 45°45'01", long 116°19'23", in NE¼NW¼SW¼ sec.22, T.28 N., R.1 E., Idaho County, White Bird quad., Hydrologic Unit 17060209, on left bank 0.1 mi upstream from White Bird Creek, 0.6 mi downstream from Canfield-Joseph highway bridge, 1 mi southwest of White Bird, and at mile 53.7.

DRAINAGE AREA.--13,550 mi^2, approximately, includes that of White Bird Creek. Mean elevation, 6,720 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1910 to September 1917, October 1919 to current year.

REVISED RECORDS.--WSP 753: 1932. WSP 1043: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,412.65 ft above sea level. Aug. 18, 1910 to Sept. 30, 1917 and Oct. 1, 1919 to Sept. 13, 1920, nonrecording gages at site 600 ft downstream at different datum. Sept. 14, 1920 to Jan. 2, 1931, nonrecording gage on highway bridge 200 ft upstream at datum 10 ft higher.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 165,000 acres, of which about 1,200 acres are irrigated by withdrawals from ground water (1966 determination). Records include flow of White Bird Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 130,000 ft^3/s June 17, 1974, gage height, 35.81 ft; minimum daily, 1,000 ft^3/s Jan. 4, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 41,900 ft^3/s May 26, gage height, 23.64 ft; minimum, 3,120 ft^3/s Aug. 30, 31, gage height 11.98 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4440	5090	5560	3980	3300	5300	6600	21600	30200	10500	4260	3250
2	4430	4840	5440	4370	3890	5220	6630	23900	27300	10100	4180	3490
3	4390	4700	5290	4810	4390	5110	7310	26800	26800	9760	4100	3890
4	4400	4700	5020	4560	4720	5090	8350	30800	27300	9440	4020	4130
5	4410	4790	4550	4460	4580	5220	10300	31500	28900	9140	4000	4420
6	4410	5290	4150	4430	4440	5580	12000	29900	30600	8780	3990	4780
7	4400	6090	4480	4350	4450	5940	11600	27000	30800	8660	3970	4460
8	4440	5630	4900	4100	4480	6110	10600	24800	31000	8290	3880	4070
9	4440	5220	4770	4240	4450	6000	10200	23900	29600	7990	3800	3890
10	4440	5000	4510	4400	4480	5730	10800	24100	27300	7720	3740	3840
11	4420	4900	4570	4560	4540	5510	11700	22700	25100	7350	3710	3960
12	4390	4870	4640	4530	4640	5390	13100	21200	23400	7050	3660	4100
13	4360	4850	4810	4460	4650	5200	15400	19900	26100	6760	3590	3990
14	4310	4790	4890	4390	4710	5100	18600	19000	25300	6490	3510	3810
15	4270	4700	4790	4330	5050	5180	19000	18800	24000	6220	3470	3660
16	4280	4640	4710	4660	5290	5180	17600	19500	23000	6000	3430	3530
17	4290	4650	4810	4920	5050	5110	16400	22200	21300	5890	3390	3440
18	4340	4670	4950	4960	4840	5030	16100	24200	19800	5780	3380	3390
19	4420	4690	5060	4780	4520	5030	16800	26300	18700	5850	3360	3350
20	4440	4670	5000	4590	4270	5150	18100	28500	17900	6010	3340	3370
21	4450	4690	4850	4520	4230	5000	19200	30700	16800	5930	3300	3380
22	4440	4580	4750	4600	4570	4900	21500	35900	16000	5660	3320	3390
23	4420	4470	4550	4490	4830	5130	23300	40700	15400	5320	3300	3350
24	4400	4260	4120	4400	5050	5770	22400	41300	14700	5100	3320	3390
25	4390	4270	3750	4370	5030	5820	20400	41600	14000	4960	3360	3460
26	4400	5430	3650	4460	4910	5750	18700	41200	13300	4840	3340	3530
27	4490	7510	3540	4490	4840	5990	17600	39500	12700	4740	3260	3570
28	4980	7100	3490	4370	5120	6780	19300	38500	12000	4620	3200	3580
29	5920	6250	3500	4140	5280	7590	20800	39100	11500	4520	3140	3550
30	5900	5730	3460	3680	---	7390	21100	36900	11000	4430	3130	3590
31	5460	---	3660	3240	---	6900	---	33900	---	4350	3130	---
TOTAL	140970	153070	140220	136640	134600	174200	461490	905900	651800	208250	110580	111610
MEAN	4547	5102	4523	4408	4641	5619	15380	29220	21730	6718	3567	3720
MAX	5920	7510	5560	4960	5290	7590	23300	41600	31000	10500	4260	4780
MIN	4270	4260	3460	3240	3300	4900	6600	18800	11000	4350	3130	3250
AC-FT	279600	303600	278100	271000	267000	345500	915400	1797000	1293000	413100	219300	221400
CFSM	.34	.38	.33	.33	.34	.41	1.14	2.16	1.60	.50	.26	.27
IN.	.39	.42	.38	.38	.37	.48	1.27	2.49	1.79	.57	.30	.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2000, BY WATER YEAR (WY)

MEAN	4796	4949	4568	4257	4471	5567	11740	32000	38570	13690	5437	4440
MAX	8592	8254	10980	11240	8983	11680	27130	58950	82600	35470	8888	7077
(WY)	1963	1984	1996	1997	1996	1986	1943	1997	1974	1975	1965	1965
MIN	2952	3010	2749	2737	2875	3516	5401	10510	8803	3521	2299	2257
(WY)	1932	1932	1936	1932	1932	1955	1929	1977	1992	1931	1931	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1910 - 2000	
ANNUAL TOTAL	4894910		3329330			
ANNUAL MEAN	13410		9097		11220	
HIGHEST ANNUAL MEAN					17870	1997
LOWEST ANNUAL MEAN					5812	1931
HIGHEST DAILY MEAN	80900	May 30	41600	May 25	129000	Jun 17 1974
LOWEST DAILY MEAN	3460	Dec 30	3130	Aug 30	1000	Jan 4 1995
ANNUAL SEVEN-DAY MINIMUM	3580	Dec 25	3210	Aug 26	1500	Jan 1 1995
ANNUAL RUNOFF (AC-FT)	9709000		6604000		8126000	
ANNUAL RUNOFF (CFSM)	.99		.67		.83	
ANNUAL RUNOFF (INCHES)	13.44		9.14		11.25	
10 PERCENT EXCEEDS	37800		23900		29300	
50 PERCENT EXCEEDS	5430		4860		5310	
90 PERCENT EXCEEDS	4370		3540		3400	

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1966 to 1994, April to September 2000.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1977 to September 1980 (discontinued).
WATER TEMPERATURE: October 1966 to September 1980, April to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 241 Microsiemens/cm Dec. 27, 1978; minimum, 51 microsiemens/cm May 25, 1979.
WATER TEMPERATURE: Maximum, 28.0 °C July 31, Aug. 2, 1977; minimum, 0.0 °C on many days during winter months.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE: Maximum, 26.0 °C Aug. 3.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
12...	0930	13000	95	8.1	23.5	9.8	2.9	11.6	108	59	28
MAY											
02...	0940	23600	62	7.4	15.5	10.2	.4	11.0	102	K13	K18
JUN											
13...	1015	26500	57	7.2	22.0	11.6	.7	8.5	81	35	38
JUL											
25...	0840	4990	127	7.8	26.0	20.9	1.0	--	--	K7	K2
AUG											
22...	1115	3340	152	8.2	27.5	17.5	.3	7.2	79	K6	K8
SEP											
12...	0745	4110	154	7.7	13.0	15.0	.4	6.9	71	23	K10

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
12...	62	18.5	3.78	7.6	21	1.4	79	0

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
12...	64	7.8	1.9	.4	13.4	94	.13	1040

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR							
12...	.015	<.002	.24	.037	.004	25	878
MAY							
02...	.019	.004	.16	.021	.003	50	3190
JUN							
13...	.012	.012	.12	.025	.002	37	2650
JUL							
25...	.005	.004	.19	.010	.003	2	27
AUG							
22...	<.005	.002	.12	E.007	.001	1	9.0
SEP							
12...	<.005	.003	.16	.012	.004	2	22

K Results based on counts outside ideal colony range.

13317000 SALMON RIVER AT WHITE BIRD, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, APRIL TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	11.1	9.5	10.2
2	---	---	---	11.1	10.1	10.7
3	---	---	---	10.9	10.1	10.6
4	---	---	---	10.6	9.8	10.1
5	10.1	9.4	9.6	10.1	9.4	9.8
6	9.4	8.6	8.9	10.3	9.2	9.7
7	9.5	8.1	8.8	10.1	9.1	9.6
8	9.7	8.3	9.0	10.0	9.1	9.6
9	10.1	9.1	9.5	10.1	9.4	9.7
10	10.6	9.2	9.9	10.0	8.7	9.3
11	10.6	9.5	10.1	8.7	8.1	8.3
12	10.9	9.8	10.4	8.7	7.7	8.2
13	10.8	10.1	10.3	9.4	7.7	8.5
14	10.1	9.2	9.6	10.1	8.6	9.3
15	9.7	9.1	9.4	11.5	9.7	10.5
16	9.4	8.4	8.9	12.2	10.8	11.4
17	9.5	8.4	9.1	12.0	10.8	11.3
18	10.0	8.6	9.3	11.7	10.6	11.2
19	10.3	9.1	9.7	12.0	10.9	11.4
20	10.6	9.5	10.1	12.0	10.9	11.5
21	10.8	9.4	10.1	12.3	11.2	11.7
22	10.5	9.8	10.1	12.8	11.5	12.1
23	9.8	9.1	9.5	12.5	11.4	11.9
24	9.7	8.7	9.1	11.5	11.1	11.4
25	9.1	8.4	8.8	11.5	10.8	11.2
26	9.2	8.1	8.7	11.8	11.2	11.5
27	10.1	8.4	9.2	11.7	11.1	11.4
28	10.5	9.7	10.0	11.5	10.8	11.1
29	10.6	9.5	10.1	11.5	10.9	11.2
30	10.8	9.4	10.1	11.4	10.6	11.0
31	---	---	---	10.6	10.0	10.4
MONTH	---	---	---	12.8	7.7	10.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	10.9	9.7	10.2	19.4	18.8	19.2	24.8	22.0	23.3	18.4	17.3	17.8
2	11.7	10.1	10.9	19.7	18.6	19.2	25.5	22.0	23.6	17.3	16.1	16.5
3	13.4	11.4	12.3	19.3	18.1	18.6	26.0	22.0	23.7	16.1	15.1	15.5
4	14.3	12.6	13.4	18.8	17.6	18.2	25.6	22.2	23.6	15.4	14.3	14.8
5	14.6	13.2	13.9	18.1	17.0	17.5	25.5	21.4	23.3	15.3	14.6	14.9
6	14.8	13.5	14.1	17.2	16.7	16.9	25.5	21.2	23.3	16.1	14.3	15.0
7	14.9	13.5	14.3	17.5	16.1	16.7	25.1	21.0	23.1	16.5	14.2	15.2
8	14.6	14.0	14.3	18.0	16.8	17.3	24.9	20.9	22.9	15.7	14.5	15.0
9	14.2	13.4	13.8	19.3	17.5	18.4	24.2	20.9	22.6	16.7	14.3	15.3
10	13.7	12.6	13.1	19.6	18.1	18.8	23.7	20.9	22.2	15.1	14.6	14.9
11	12.6	11.8	12.2	20.6	18.4	19.5	23.2	20.9	21.9	16.4	14.5	15.2
12	11.8	11.2	11.6	21.2	19.4	20.2	22.0	20.2	21.1	17.5	15.1	16.1
13	12.8	11.2	11.9	21.9	19.9	20.9	22.0	19.6	20.7	18.1	15.7	16.8
14	13.7	12.0	12.8	21.9	20.2	21.0	21.5	19.4	20.4	18.8	16.2	17.3
15	14.8	13.4	14.0	21.2	20.2	20.7	21.2	19.1	20.1	18.8	16.4	17.5
16	15.3	14.0	14.7	21.4	19.3	20.3	20.9	18.6	19.7	19.3	17.0	18.0
17	15.1	13.9	14.5	21.4	19.6	20.5	20.4	18.6	19.5	19.9	17.5	18.6
18	15.1	14.0	14.5	21.0	19.7	20.4	20.2	18.1	19.1	19.9	18.0	18.9
19	15.1	14.2	14.6	21.4	19.9	20.6	20.1	18.1	18.9	20.2	18.8	19.4
20	15.7	14.2	14.9	21.4	20.1	20.7	19.7	17.8	18.7	18.9	17.6	18.3
21	16.2	14.6	15.4	21.7	20.1	20.9	19.6	17.2	18.3	18.3	17.0	17.6
22	17.0	15.3	16.1	22.0	20.4	21.1	19.1	17.0	18.1	17.0	14.8	15.9
23	17.6	16.1	16.8	22.0	20.2	21.1	18.6	17.0	17.8	15.7	13.7	14.6
24	18.0	16.4	17.1	22.5	20.2	21.4	18.9	17.3	18.1	15.1	12.9	14.0
25	18.1	16.7	17.4	22.7	20.6	21.6	19.9	17.6	18.6	14.3	12.6	13.5
26	18.6	16.8	17.8	22.7	20.7	21.6	19.6	17.8	18.8	14.0	12.0	13.0
27	18.9	17.5	18.2	22.9	20.7	21.7	19.4	17.5	18.5	13.5	11.5	12.5
28	19.3	17.8	18.6	23.6	20.7	22.1	19.6	17.2	18.4	12.9	11.1	12.0
29	19.4	18.3	18.9	23.9	21.2	22.5	19.1	17.5	18.4	12.2	11.2	11.7
30	19.7	18.6	19.2	23.9	21.5	22.8	19.6	17.6	18.6	12.0	11.5	11.7
31	---	---	---	24.6	21.9	23.0	19.4	17.6	18.5	---	---	---
MONTH	19.7	9.7	14.7	24.6	16.1	20.2	26.0	17.0	20.4	20.2	11.1	15.6

COLLECTION METHODS.--Electrofishing; boat (13A).

LENGTH OF REACH.--1083 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.78 hours.

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

BIOLOGICAL DATA, SEPTEMBER 2000
FISH COLLECTION DATA

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Sep.21								
Catostomidae (Suckers)									
Catostomus columbianus (Bridgelip sucker)		8	4.0	95-435	8-874	NATIVE	HERBIVORE	COLD	1-LE,7-AA
Catostomus macrocheilus (Largescale sucker)		77	38.7	40-478	1-1124	NATIVE	OMNIVORE	COLD	77_AA
Centrarchidae (sunfishes)									
Micropterus dolomieui (Smallmouth bass)		10	5.0	58-215	4-139	INTRODUCED	PISCIVORE	COOL	10-AA
Cottidae (Sculpins)									
Cottus rhotheus (Torrent sculpin)		18	9.0	51-100	2-14	NATIVE	INVERTIVORE	COLD	10-BL,8-AA
Cyprinidae (Carps and minnows)									
Acrocheilus alutaceus (Chislemouth)		1	0.5	126	20	NATIVE	OMNIVORE	COLD	1-AA
Cyprinus carpio (Common Carp)		1	0.5	678	4400	NATIVE	INVERTIVORE	COLD	1-AA
Ptychocheilus oregonensis (Northern pikeminnow)		17	8.5	32-452	1-1050	NATIVE	INVERTIVORE	COOL	17-AA
Rhinichthys osculus (Speckled dace)		3	1.5	31-46	1-2	NATIVE	INVERTIVORE	COLD	3-AA
Richardsonius balteatus (Redside shiner)		42	21.1	36-95	1-7	NATIVE	INVERTIVORE	COLD	42-AA
Salmonidae (Trouts)									
Oncorhynchus mykiss sp. (Rainbow trout)		2	1.0	90-188	11-64	[a]INTRODUCED	INVERTIVORE	COLD	2-AA
Prosopium williamsoni (Mountain whitefish)		20	10	123-410	13-734	NATIVE	INVERTIVORE	COLD	20-AA

TOTAL NUMBER OF TAXA 11
TOTAL INDIVIDUALS 199

a-Rainbow trout are considered native in Idaho downstream of Shoshone Falls and introduced upstream of Shoshone Falls.

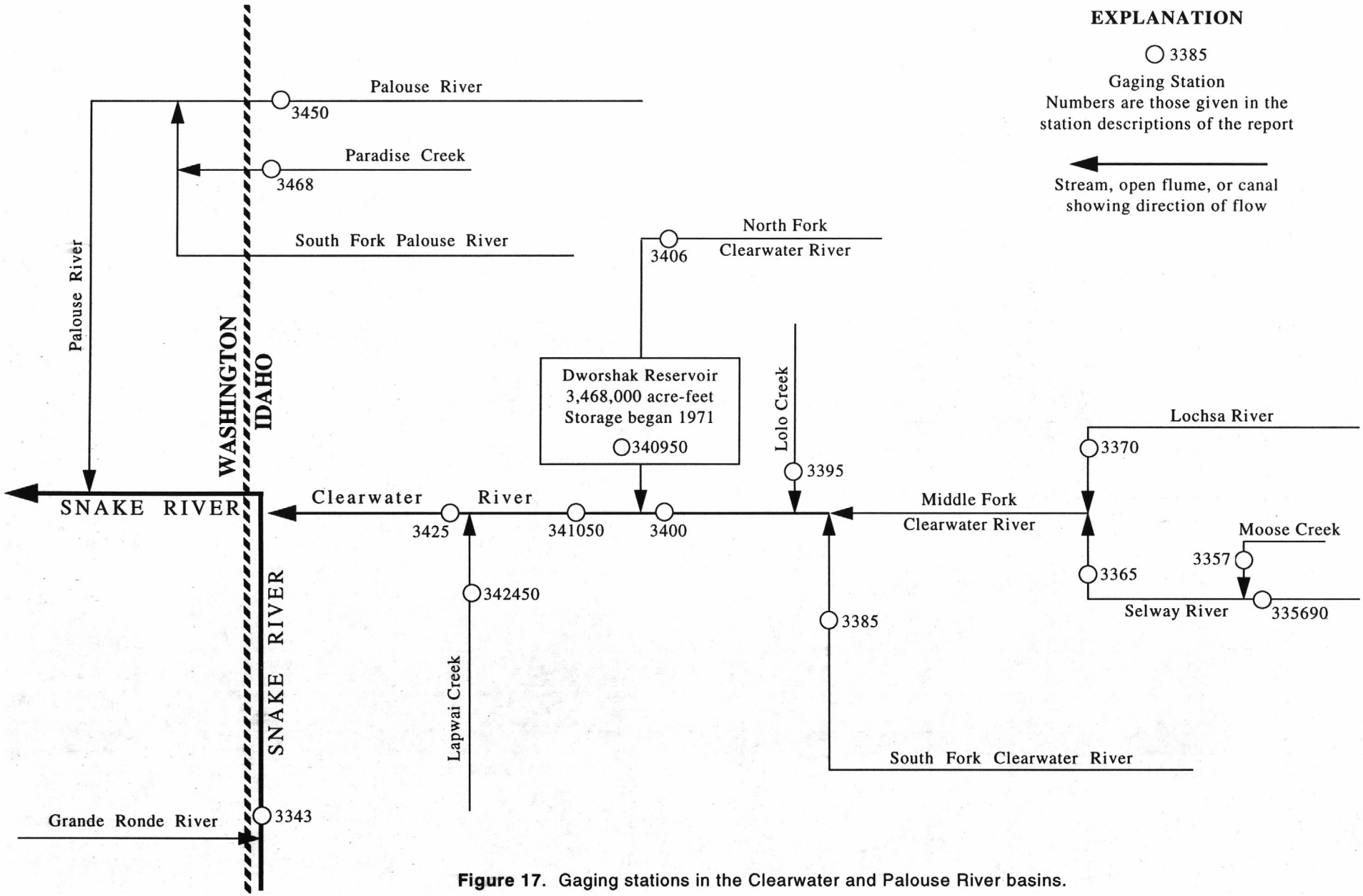


Figure 17. Gaging stations in the Clearwater and Palouse River basins.

SNAKE RIVER MAIN STEM

13334300 SNAKE RIVER NEAR ANATONE, WA

LOCATION.--Lat 46°05'50", long 116°58'36", in SE¼SE¼NE¼ sec.12, T.7 N., R.46 E., Asotin County, Washington, Hydrologic Unit 17060103, on left bank, 1.2 mi downstream from Grande Ronde River, 7.8 mi east of Anatone, 22 mi south of Clarkston, and at mile 167.2.

DRAINAGE AREA.--92,960 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1958 to current year.

REVISED RECORDS.--WDR ID-76-1: 1974 and 1975.

GAGE.--Water-stage recorder. Datum of gage is 806.78 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 4,090,000 acres of which about 750,000 acres are irrigated by withdrawals from ground water. Flow regulated by many reservoirs above station with a total usable capacity of more than 10,000,000 acre-feet, the most effective of which is Brownlee Reservoir 117.8 mi upstream (see sta 13289700). Diurnal fluctuations caused by Hells Canyon powerplant.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 195,000 ft^3/s June 18, 1974, gage height, 24.45 ft; minimum, 6,010 ft^3/s Sept. 2, 1958, gage height, 1.29 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 68,900 ft^3/s Apr. 23, gage height, 11.63 ft; minimum, 10,000 ft^3/s Aug 29, gage height, 2.63 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23300	19400	19400	18100	30100	44700	41200	54900	57100	23200	14500	14400
2	21000	19000	19100	17000	28300	40700	42000	54800	51400	22000	15300	12400
3	22900	18700	19000	22200	30900	42200	44500	54600	47500	22500	14400	11300
4	18500	18400	18800	25600	32900	42300	47600	55000	45200	22600	13400	11200
5	24000	18400	18100	25200	34700	42900	51400	61100	53000	25300	14700	13700
6	24400	18600	17500	26500	34700	39700	50500	56400	59400	27400	14700	21400
7	24700	19600	17000	30800	26800	41900	51700	51800	60000	27000	14300	22700
8	23600	20000	19300	28900	32700	37400	49600	49300	54800	26400	14000	21800
9	24600	19500	19600	26000	31000	36100	47600	48600	47900	26200	12400	18600
10	24300	19200	21600	22600	31600	35000	48700	52100	44900	27100	14300	16600
11	20000	19000	20500	28500	30100	31800	50700	54800	44600	27600	14100	17000
12	22600	18900	18500	29000	30200	34200	52300	54200	43200	28600	13700	23400
13	23400	18900	18900	30500	25300	35800	57900	51100	45800	29500	13800	27800
14	23800	18900	24100	28200	27500	34900	63200	49800	51400	28200	13200	24800
15	22800	18800	23500	27500	33700	34200	64500	48100	53100	26400	13000	24000
16	24800	18500	21800	28600	35300	35200	61300	42300	50100	26500	13400	21200
17	23200	18500	21100	28600	34800	35500	59600	41500	43200	27100	13600	19800
18	18300	18500	23200	31300	31500	35500	58800	43500	37600	25000	14200	21900
19	18000	18500	24400	30100	28200	36000	61300	44900	40900	23400	14900	24400
20	18100	18500	23600	29600	25700	37600	62500	46900	40200	25300	13500	24800
21	18100	18500	25200	29600	23300	35900	63400	50100	39000	25300	13200	23000
22	18100	18500	24000	29400	27200	35000	65600	56400	38200	23100	12700	21100
23	18100	18400	22200	29000	28800	35000	68200	62200	31900	22200	13000	22500
24	18000	18200	20800	30900	32200	38100	67200	62400	25600	21400	12600	21200
25	18000	17000	17700	29800	36000	40700	64100	61600	24600	24300	13400	22200
26	18100	22900	17100	29600	36600	39200	61000	60800	27700	23800	13700	25300
27	18300	24800	18700	30300	34600	39600	58500	59400	32500	23700	13000	17200
28	18500	23200	20100	30300	40000	40300	59100	58900	30300	22600	13600	10800
29	19600	21300	17500	29500	43500	42200	58800	57600	29600	16900	14600	10100
30	20200	20000	19000	29200	---	44600	53400	57300	27900	15300	16300	10200
31	19800	---	16800	28500	---	42900	---	59100	---	14400	14600	---
TOTAL	651100	580600	628100	860900	918200	1187100	1686200	1661500	1278600	750300	430100	576800
MEAN	21000	19350	20260	27770	31660	38290	56210	53600	42620	24200	13870	19230
MAX	24800	24800	25200	31300	43500	44700	68200	62400	60000	29500	16300	27800
MIN	18000	17000	16800	17000	23300	31800	41200	41500	24600	14400	12400	10100
AC-FT	1291000	1152000	1246000	1708000	1821000	2355000	3345000	3296000	2536000	1488000	853100	1144000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2000, BY WATER YEAR (WY)

MEAN	21650	22420	25450	30010	34140	40620	49720	67670	73170	31360	18190	19620
MAX	31540	36960	41630	71930	72520	90400	88700	118700	134200	63860	29140	31730
(WY)	1985	1985	1965	1997	1965	1972	1974	1984	1984	1982	1997	1997
MIN	13760	13620	13570	16750	17090	18680	18880	20610	16850	12830	9765	10180
(WY)	1989	1993	1993	1993	1977	1977	1977	1977	1992	1977	1992	1992

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1958 - 2000	
ANNUAL TOTAL	16113600		11209500			
ANNUAL MEAN	44150		30630		36130	
HIGHEST ANNUAL MEAN					59030	1997
LOWEST ANNUAL MEAN					18050	1992
HIGHEST DAILY MEAN	132000	May 31	68200	Apr 23	191000	Jun 18 1974
LOWEST DAILY MEAN	14700	Sep 19	10100	Sep 29	6630	Sep 1 1958
ANNUAL SEVEN-DAY MINIMUM	18100	Oct 19	13100	Aug 21	7150	Aug 28 1958
ANNUAL RUNOFF (AC-FT)	31960000		22230000		26180000	
10 PERCENT EXCEEDS	85700		54800		75200	
50 PERCENT EXCEEDS	34600		26100		26100	
90 PERCENT EXCEEDS	18500		14700		15600	

SNAKE RIVER MAIN STEM

13334300 SNAKE RIVER NEAR ANATONE, WA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to May 1984, October 1985 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1959 to May 1984, April 1986 to current year.

INSTRUMENTATION.--Temperature recorder since October 1959.

REMARKS.--Records fair. Daily water temperature data for water year 1985 were missing due to equipment malfunction. Interruptions in record this year were due to malfunction of the recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 25.5 °C Aug. 26, 28, 1991, Aug. 2-4, 1994, Aug. 14, 1998; minimum, 0.0 °C several days during winter months.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 24.5 °C Aug. 9; minimum 2.5 °C Jan. 30.

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	17.5	16.5	11.5	11.0	8.0	7.5	4.0	3.5	4.0	3.0	6.5	6.0
2	17.0	16.0	11.0	10.5	8.0	7.5	4.0	3.5	4.5	4.0	6.5	6.5
3	16.5	15.5	11.0	10.5	7.5	6.5	4.0	3.5	5.0	4.5	7.5	6.5
4	16.5	15.5	11.5	10.5	6.5	6.0	4.0	4.0	4.5	4.5	7.5	7.0
5	16.5	15.5	11.0	10.5	6.0	6.0	4.5	4.0	4.5	4.0	7.5	7.0
6	16.5	16.0	11.0	10.5	6.5	6.0	4.5	4.0	4.5	4.0	7.0	6.5
7	16.5	16.0	11.0	10.5	6.5	6.0	4.5	4.0	5.0	4.5	7.0	6.0
8	16.5	16.0	10.5	10.5	6.5	6.0	5.0	4.5	5.0	4.5	7.0	6.0
9	17.0	16.0	11.0	10.5	6.5	6.5	5.0	4.5	5.5	5.0	7.0	6.5
10	16.0	15.5	11.0	10.5	6.5	6.0	4.5	4.0	5.0	4.5	7.5	6.5
11	15.5	15.5	11.0	11.0	6.5	6.5	4.5	4.5	5.0	4.5	8.0	7.0
12	16.0	15.5	11.5	11.0	6.5	6.0	4.5	4.0	5.0	4.5	7.5	6.5
13	16.5	15.5	12.0	11.0	6.5	6.0	4.5	4.0	5.0	4.5	8.0	7.0
14	16.5	15.5	11.5	11.0	6.0	6.0	4.5	4.5	5.0	5.0	8.5	7.5
15	15.5	14.5	11.0	10.0	6.0	6.0	5.0	4.5	5.0	4.5	8.5	7.5
16	15.0	14.0	10.5	10.0	6.5	6.0	5.0	4.5	5.5	5.0	7.5	7.0
17	14.5	13.5	10.0	10.0	6.5	6.0	5.0	4.5	5.5	4.5	7.0	7.0
18	13.5	13.0	10.0	9.5	6.5	6.0	4.5	4.0	5.0	4.5	7.0	6.5
19	13.5	12.5	9.5	9.5	6.5	6.0	4.5	4.0	5.0	4.5	7.5	7.0
20	13.5	12.5	9.5	9.0	6.0	5.5	4.0	4.0	5.0	4.5	7.5	6.5
21	13.5	12.5	9.0	8.5	6.0	5.5	4.5	4.0	6.0	5.0	8.0	7.0
22	13.5	12.5	9.0	8.5	6.0	5.5	4.0	4.0	6.0	5.5	9.0	7.5
23	13.0	12.5	8.5	8.0	6.0	5.5	4.0	3.5	6.0	5.5	9.0	8.0
24	13.0	12.5	8.5	8.0	5.5	4.5	4.0	4.0	6.0	5.5	8.5	7.0
25	13.0	12.5	8.5	8.5	5.0	4.5	4.0	4.0	5.5	5.0	8.0	7.5
26	13.0	12.0	8.5	7.5	5.0	4.5	4.5	4.0	6.0	5.0	9.0	7.5
27	12.5	12.0	7.5	7.0	5.0	4.5	4.0	4.0	6.5	6.0	9.0	8.5
28	12.5	12.0	7.0	6.5	5.0	4.5	4.0	3.5	6.5	6.0	9.0	8.0
29	12.0	11.5	7.0	6.5	4.5	3.5	3.5	3.0	6.5	6.0	8.0	7.5
30	12.5	11.5	7.5	7.0	4.5	3.5	3.0	2.5	---	---	8.5	7.5
31	12.0	11.5	---	---	4.0	3.5	3.5	3.0	---	---	9.0	8.0
MONTH	17.5	11.5	12.0	6.5	8.0	3.5	5.0	2.5	6.5	3.0	9.0	6.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.5	8.5	13.5	12.5	13.5	12.0	21.0	20.0	24.0	22.5	20.5	20.0
2	10.5	9.0	14.0	13.0	14.5	13.5	20.5	19.5	24.0	22.5	20.0	19.0
3	10.5	9.5	13.5	12.5	15.5	14.0	20.0	19.0	24.0	22.5	19.5	18.0
4	10.5	9.5	12.5	11.5	16.5	15.0	19.5	18.0	24.0	22.5	19.5	17.5
5	10.0	9.0	12.0	11.5	17.0	16.0	19.0	18.5	24.0	22.5	18.0	17.5
6	9.0	8.5	12.0	11.5	17.0	16.0	19.5	18.5	24.0	22.5	19.5	18.0
7	9.5	8.5	12.5	11.5	17.0	16.0	20.5	19.0	24.0	22.5	20.0	18.5
8	10.5	9.0	13.0	12.0	17.0	15.5	20.0	19.5	24.0	22.0	20.0	18.5
9	11.0	10.0	12.5	12.0	15.5	14.5	20.5	19.0	24.5	22.0	19.5	18.5
10	11.5	10.5	12.5	11.5	15.0	14.5	21.0	19.5	23.5	22.5	18.5	18.0
11	11.0	10.5	12.0	11.0	14.5	14.0	21.5	20.0	23.5	22.0	19.5	18.0
12	11.5	10.5	12.5	11.5	15.0	14.0	22.0	20.5	23.0	21.5	20.5	19.0
13	11.5	10.5	12.5	11.5	15.5	14.0	22.0	21.0	23.0	21.0	21.0	19.5
14	10.5	10.0	14.0	12.5	16.5	15.0	22.5	21.0	23.0	21.0	21.5	20.0
15	10.5	10.0	14.5	13.5	16.5	16.0	22.0	21.0	23.0	21.0	21.5	20.5
16	10.5	10.0	15.0	13.5	17.0	16.0	21.5	20.5	22.5	20.5	21.5	20.5
17	11.5	10.0	15.5	14.0	17.5	16.0	22.0	21.0	22.0	20.5	21.5	20.0
18	12.0	11.0	15.0	14.0	17.0	16.5	22.5	21.5	22.0	20.5	21.0	20.5
19	12.5	11.5	15.0	14.0	17.0	16.0	23.0	21.5	22.0	20.5	21.5	20.5
20	12.5	11.5	14.5	13.5	18.0	16.0	23.0	21.5	22.0	20.5	20.5	19.5
21	13.0	12.0	15.0	14.0	18.5	17.5	23.0	22.0	21.5	20.0	19.5	19.0
22	12.5	12.0	15.5	14.5	19.0	18.0	23.0	22.0	22.5	20.0	19.0	18.0
23	12.0	11.0	15.0	14.5	19.0	18.0	23.0	21.5	22.5	20.0	18.5	17.5
24	11.5	10.5	14.5	13.5	19.0	17.5	22.0	20.5	23.5	20.5	18.5	17.5
25	11.5	11.0	14.0	13.5	19.5	18.0	22.0	21.0	23.0	21.0	18.5	17.5
26	12.0	10.5	14.0	13.0	20.0	18.5	22.0	21.0	23.0	20.5	18.5	17.5
27	13.0	11.5	14.0	13.5	20.5	19.0	22.0	21.0	22.0	19.0	18.5	17.0
28	13.0	12.0	14.0	13.5	20.5	19.5	22.5	21.0	21.5	19.0	---	---
29	12.5	11.5	14.0	13.5	21.0	19.5	23.0	21.5	22.0	19.5	---	---
30	13.0	12.0	13.5	13.0	21.0	20.0	23.5	22.0	22.0	20.0	---	---
31	---	---	13.0	12.0	---	---	24.0	22.5	21.5	20.5	---	---
MONTH	13.0	8.5	15.5	11.0	21.0	12.0	24.0	18.0	24.5	19.0	---	---

CLEARWATER RIVER BASIN

13335690 SELWAY RIVER ABOVE MOOSE CREEK NEAR MOOSE CREEK RANGER STATION, ID

LOCATION.--Lat 46°07'19", long 114°55'47", Idaho County, Hydrologic Unit 17060301, Selway Bitterroot Wilderness, Nezperce National Forest, on left bank at downstream side of pack bridge, 150 ft downstream of Tony Creek, 1,250 ft upstream of Moose Creek, 0.8 mi southwest of Moose Creek Ranger Station, and at mile 138.

DRAINAGE AREA.--987 mi^2.

PERIOD OF RECORD.--June 1995 to current year.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 17,300 ft^3/s May 17, 1997; minimum daily, 120 ft^3/s Dec. 21, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 8,830 ft^3/s May 22; minimum daily, 156 ft^3/s Jan. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	224	283	480	e460	e360	749	1090	5080	5010	1490	359	202
2	213	245	453	e420	e420	754	1190	6360	4770	1480	345	248
3	209	239	429	e360	447	768	1270	6150	5470	1360	332	261
4	208	263	308	e320	453	842	1580	6780	5880	1260	330	243
5	204	294	197	396	459	945	2610	6070	6310	1140	328	271
6	201	320	460	376	444	1040	2480	5560	6550	1280	310	265
7	211	396	425	348	432	1100	2050	4900	6440	1170	298	234
8	210	343	380	364	433	1090	1850	4630	6370	1060	290	225
9	236	313	318	367	495	1050	1950	4640	5220	1060	283	305
10	275	295	353	352	563	995	2370	4570	4470	990	281	330
11	238	286	358	348	580	942	2830	3990	4080	924	289	464
12	221	289	356	346	564	876	3510	3610	4020	874	276	483
13	213	285	386	314	542	835	4970	3310	5790	838	263	347
14	207	283	351	363	538	817	5430	3220	4560	800	255	296
15	199	273	363	375	606	780	4630	3430	5530	751	248	270
16	201	263	425	364	605	747	4120	4070	4320	709	243	255
17	204	263	619	372	581	724	3820	4910	3590	666	237	272
18	208	283	723	358	526	690	4150	5950	3380	638	234	260
19	208	267	735	359	457	755	5610	6510	3390	632	232	261
20	204	271	599	363	491	744	5900	6500	2950	602	228	297
21	201	282	530	377	572	717	6000	7520	2770	568	221	287
22	198	253	482	372	525	725	6640	8830	2820	535	219	284
23	195	222	387	354	538	830	6070	8790	2690	510	216	262
24	192	206	266	346	615	874	5100	7360	2300	485	218	256
25	189	479	275	364	611	878	4320	7040	2170	470	244	251
26	191	1290	315	365	591	914	3830	7030	1970	451	226	243
27	221	988	e340	356	603	1030	3800	6410	1840	436	208	236
28	289	616	e340	345	683	1340	5440	8240	1730	417	202	230
29	415	493	e320	259	735	1350	5060	7510	1640	401	198	225
30	312	462	e280	156	---	1230	4530	6430	1550	389	195	289
31	286	---	e380	e280	---	1130	---	5960	---	375	193	---
TOTAL	6983	11045	12633	10899	15469	28261	114200	181360	119580	24761	8001	8352
MEAN	225	368	408	352	533	912	3807	5850	3986	799	258	278
MAX	415	1290	735	460	735	1350	6640	8830	6550	1490	359	483
MIN	189	206	197	156	360	690	1090	3220	1550	375	193	202
AC-FT	13850	21910	25060	21620	30680	56060	226500	359700	237200	49110	15870	16570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2000, BY WATER YEAR (WY)

MEAN	419	838	961	651	992	1348	3171	7041	6640	1886	458	308
MAX	792	2384	3111	1154	2824	1803	4002	9703	8782	2587	575	354
(WY)	1996	1996	1996	1996	1996	1996	1996	1997	1996	1996	1995	1997
MIN	225	342	362	352	399	912	2413	5841	3986	799	258	237
(WY)	2000	1999	1999	2000	1999	2000	1999	1999	2000	2000	2000	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1995 - 2000	
ANNUAL TOTAL	656380		541544			
ANNUAL MEAN	1798		1480		2053	
HIGHEST ANNUAL MEAN					2921	1996
LOWEST ANNUAL MEAN					1480	2000
HIGHEST DAILY MEAN	14200	May 26	8830	May 22	17300	May 17 1997
LOWEST DAILY MEAN	189	Oct 25	156	Jan 30	120	Dec 21 1998
ANNUAL SEVEN-DAY MINIMUM	196	Oct 20	196	Oct 20	169	Dec 19 1998
ANNUAL RUNOFF (AC-FT)	1302000		1074000		1487000	
10 PERCENT EXCEEDS	5500		5090		5590	
50 PERCENT EXCEEDS	523		460		688	
90 PERCENT EXCEEDS	221		222		282	

e Estimated

CLEARWATER RIVER BASIN

13335700 MOOSE CREEK AT MOUTH NEAR MOOSE CREEK RANGER STATION, ID

LOCATION.--Lat 46°07'28", long 114°55'58", Idaho County, Hydrologic Unit 17060302, Selway Bitterroot Wilderness, Nezperce National Forest, on right bank 240 ft upstream from pack bridge, 800 ft upstream of mouth, and 0.8 mi southwest of Moose Creek Ranger Station.

DRAINAGE AREA.--367 mi^2.

PERIOD OF RECORD.--June 1995 to current year.

REVISED RECORDS.--WDR-ID-99-2: 1997 (M).

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 15,000 ft^3/s May 17, 1997; minimum daily, 32 ft^3/s Dec. 21, 1998, during period of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,840 ft^3/s May 22; minimum daily, 83 ft^3/s Aug. 30, 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	172	377	282	e190	416	683	3150	3260	904	176	104
2	102	143	363	260	e200	420	762	3680	3290	853	167	123
3	101	150	334	243	e220	433	825	3600	3640	790	162	125
4	101	180	247	233	e220	482	1050	4150	3780	743	158	109
5	99	173	254	235	229	527	1440	3500	4040	685	150	172
6	98	287	316	235	225	573	1290	3200	4200	768	145	138
7	101	294	309	227	223	611	1120	2940	4260	682	140	114
8	100	242	289	229	230	615	1060	2840	4030	616	135	105
9	151	232	261	230	279	598	1190	2940	3320	606	131	152
10	146	211	267	215	289	577	1470	2790	2940	560	128	153
11	120	204	265	224	289	564	1700	2400	2660	519	133	219
12	110	204	267	219	279	535	2050	2190	2810	487	126	180
13	108	204	300	192	274	511	2910	2060	3500	460	120	141
14	110	201	271	229	287	506	3110	2080	2880	433	114	122
15	104	189	269	239	344	485	2660	2310	3510	406	111	112
16	103	181	300	224	318	468	2560	2740	2710	386	108	106
17	102	181	357	225	297	457	2490	3300	2390	362	106	115
18	103	188	409	212	295	444	2900	3790	2260	342	104	107
19	101	172	379	212	258	488	3570	3950	2200	329	101	109
20	99	193	335	211	281	462	3570	4150	2000	318	99	109
21	98	183	311	213	293	444	3860	4900	1880	297	97	128
22	97	173	291	210	285	448	4060	5840	1830	280	96	117
23	96	151	256	206	303	549	3440	5560	1690	265	94	106
24	93	174	222	205	334	552	2890	4730	1520	251	95	103
25	93	253	223	210	323	553	2520	4610	1440	240	102	100
26	96	1090	225	208	315	566	2340	4360	1300	229	93	97
27	123	690	233	203	341	632	2510	4030	1210	219	89	94
28	354	468	223	199	409	825	3280	5640	1110	209	87	92
29	320	394	217	187	414	771	2780	4700	1040	200	85	90
30	200	381	200	117	---	707	2620	4160	961	192	83	194
31	183	---	244	e160	---	672	---	3920	---	184	83	---
TOTAL	3918	7958	8814	6694	8244	16891	68710	114210	77661	13815	3618	3736
MEAN	126	265	284	216	284	545	2290	3684	2589	446	117	125
MAX	354	1090	409	282	414	825	4060	5840	4260	904	176	219
MIN	93	143	200	117	190	416	683	2060	961	184	83	90
AC-FT	7770	15780	17480	13280	16350	33500	136300	226500	154000	27400	7180	7410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2000, BY WATER YEAR (WY)

MEAN	231	566	610	401	507	668	1751	4430	4222	1036	227	137
MAX	499	1614	1960	665	1395	896	2290	7061	6043	1512	305	190
(WY)	1996	1996	1996	1996	1996	1996	2000	1997	1997	1997	1997	1997
MIN	111	178	206	216	198	545	1187	3678	1905	446	117	117
(WY)	1999	1999	1999	2000	1999	2000	1999	1999	1998	2000	2000	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1995 - 2000	
ANNUAL TOTAL	412998		334269			
ANNUAL MEAN	1132		913		1232	
HIGHEST ANNUAL MEAN					1670	1996
LOWEST ANNUAL MEAN					882	1998
HIGHEST DAILY MEAN	10200	May 25	5840	May 22	15000	May 17 1997
LOWEST DAILY MEAN	93	Oct 24	83	Aug 30	32	Dec 21 1998
ANNUAL SEVEN-DAY MINIMUM	96	Oct 20	89	Aug 25	69	Dec 19 1998
ANNUAL RUNOFF (AC-FT)	819200		663000		892700	
10 PERCENT EXCEEDS	3180		3220		3180	
50 PERCENT EXCEEDS	309		282		384	
90 PERCENT EXCEEDS	113		103		123	

e Estimated

CLEARWATER RIVER BASIN

13336500 SELWAY RIVER NEAR LOWELL, ID

LOCATION.--Lat 46°05'12", long 115°30'46", in NW¼SE¼NE¼ sec.25, T.32 N., R.7 E., Idaho County, Nez Perce National Forest, Hydrologic Unit 17060302, on right bank 0.2 mi upstream from O'Hara Creek, 7 mi upstream from Lowell, 7.6 mi upstream from confluence with Lochsa River, and 105.2 mi upstream from mouth of Clearwater River.

DRAINAGE AREA.--1,910 mi^2, approximately. Mean elevation, 5,640 ft.

PERIOD OF RECORD.--April 1911 to September 1912 (gage heights or fragmentary discharge records only), October 1929 to current year. Monthly discharge only for October 1929, published in WSP 1317.

REVISED RECORDS.--WSP 1043: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,540 ft above sea level, from river-profile map. Apr. 11 to Sept. 2, 1911, recording gage at site 2 mi downstream at different datum. Feb. 7 to Sept. 22, 1912, and Oct. 14 to Nov. 19, 1930, nonrecording gages at nearby sites at different datums.

REMARKS.--Records good. Station equipment includes satellite telemetry. Small diversions from headwaters.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,900 ft^3/s May 29, 1948, gage height, 16.04 ft; minimum, probably less than 100 ft^3/s Jan. 8, 1937, during period of ice effect.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 18,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 23	0345	*19,000	*9.74	No other peak greater than base discharge.			

Minimum daily, 501 ft^3/s Oct. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	570	738	1320	1260	1020	1940	2770	10300	11200	3580	835	588
2	551	660	1270	1130	1050	1930	3020	12500	10700	3460	803	657
3	539	612	1220	1010	1110	1950	3410	12300	11600	3210	778	678
4	535	723	1040	982	1060	2120	4160	13800	12100	3010	773	635
5	529	765	789	958	1070	2370	6010	12500	12800	2700	758	876
6	525	919	1020	948	1070	2560	5930	11600	13300	2800	732	807
7	528	1020	1100	892	1060	2680	5100	10600	13100	2780	709	655
8	535	908	1030	920	1090	2690	4590	10100	13300	2430	691	612
9	660	834	934	936	1290	2610	4800	10200	11400	2350	675	774
10	701	783	932	923	1420	2470	5690	10300	10100	2230	661	881
11	628	745	963	900	1450	2360	6580	9110	9430	2050	666	1170
12	577	742	979	891	1410	2200	7680	8380	9100	1920	658	1110
13	554	731	1070	840	1350	2070	10200	7850	12200	1830	638	856
14	546	725	1020	861	1380	2040	11500	7660	10200	1740	616	723
15	534	703	1020	946	1660	1970	10100	8050	11600	1640	604	659
16	525	679	1210	940	1630	1890	9390	9230	9970	1560	594	624
17	528	681	1690	962	1560	1850	8770	10600	8550	1470	583	661
18	533	714	2070	948	1430	1760	9450	12200	8030	1400	577	643
19	538	690	2170	936	1310	1940	11600	13300	7830	1390	564	653
20	533	682	1680	940	1240	1920	12200	13300	7260	1340	557	671
21	526	732	1440	952	1370	1830	12300	14900	6780	1270	551	732
22	520	677	1300	951	1360	1820	13700	17100	6620	1200	543	692
23	513	639	1180	931	1400	2200	12400	17700	6370	1150	e550	640
24	507	596	979	911	1560	2310	10700	15200	5730	1090	e550	615
25	501	1430	888	939	1550	2290	9360	14400	5380	1060	e600	603
26	515	4510	871	969	1490	2330	8510	14400	5020	1020	587	590
27	579	3270	897	950	1530	2590	8390	13200	4650	985	550	573
28	881	1820	1020	919	1820	3420	11100	16300	4350	952	533	563
29	1240	1410	973	846	1930	3490	10500	15400	4090	918	522	554
30	896	1310	886	708	---	3120	9440	13700	3810	889	516	824
31	770	---	995	681	---	2830	---	13000	---	865	506	---
TOTAL	18617	31448	35956	28880	39670	71550	249350	379180	266570	56289	19480	21319
MEAN	601	1048	1160	932	1368	2308	8312	12230	8886	1816	628	711
MAX	1240	4510	2170	1260	1930	3490	13700	17700	13300	3580	835	1170
MIN	501	596	789	681	1020	1760	2770	7660	3810	865	506	554
AC-FT	36930	62380	71320	57280	78690	141900	494600	752100	528700	111600	38640	42290
CFSM	.31	.55	.61	.49	.72	1.21	4.35	6.40	4.65	.95	.33	.37
IN.	.36	.61	.70	.56	.77	1.39	4.86	7.39	5.19	1.10	.38	.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2000, BY WATER YEAR (WY)

MEAN	959	1296	1435	1272	1553	2256	6031	13360	11870	3149	922	752
MAX	4932	5696	7441	3710	6647	6240	13210	22430	24370	8990	1968	2174
(WY)	1960	1996	1996	1934	1996	1934	1934	1949	1974	1975	1975	1968
MIN	366	399	456	325	420	692	2098	7950	2948	918	441	403
(WY)	1988	1937	1953	1937	1937	1955	1973	1977	1987	1934	1934	1934

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1911 - 2000	
ANNUAL TOTAL	1456135		1218309			
ANNUAL MEAN	3989		3329		3746	
HIGHEST ANNUAL MEAN					6159	1996
LOWEST ANNUAL MEAN					2096	1973
HIGHEST DAILY MEAN	28000	May 26	17700	May 23	45300	May 29 1948
LOWEST DAILY MEAN	501	Oct 25	501	Oct 25	150	Nov 28 1952
ANNUAL SEVEN-DAY MINIMUM	516	Oct 20	516	Oct 20	210	Jan 1 1937
ANNUAL RUNOFF (AC-FT)	2888000		2417000		2714000	
ANNUAL RUNOFF (CFSM)	2.09		1.74		1.96	
ANNUAL RUNOFF (INCHES)	28.36		23.73		26.65	
10 PERCENT EXCEEDS	11500		10800		11000	
50 PERCENT EXCEEDS	1500		1190		1410	
90 PERCENT EXCEEDS	589		576		570	

e Estimated

CLEARWATER RIVER BASIN

13337000 LOCHSA RIVER NEAR LOWELL, ID

LOCATION.--Lat 46°09'02", long 115°35'11", in SW¼SW¼SE¼ sec.33, T.33 N., R.7 E., Idaho County, Clearwater National Forest, Hydrologic Unit 17060303, on right bank, 0.7 mi upstream from Lowell, 0.9 mi upstream from confluence with Selway River, 1.2 mi downstream from Pete King Creek, and 19 mi east of Kooskia.

DRAINAGE AREA.--1,180 mi^2, approximately. Mean elevation, 5,250 ft.

PERIOD OF RECORD.--October 1910 to September 1912, October 1929 to current year. Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Datum of gage is 1,452.98 ft above sea level. Prior to Nov. 21, 1930, nonrecording gages at site 1 mi upstream at different datums.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,100 ft^3/s June 8, 1964, gage height, 13.50 ft, from rating curve extended above 17,000 ft^3/s; minimum, probably less than 100 ft^3/s Jan. 8, 1937, during period of ice effect.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 23	0500	*13,200	*8.23	No other peak greater than base discharge.			

Minimum daily, 348 ft^3/s Aug. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	391	738	1470	1020	678	1730	2330	8070	7750	2440	628	451
2	380	636	1380	977	928	1700	2450	9820	7240	2300	595	557
3	372	554	1330	892	1020	1680	2700	9800	7640	2220	578	564
4	370	740	1110	870	964	1790	3270	11200	7820	2130	564	487
5	368	785	943	852	918	1960	4460	9970	8220	1960	548	663
6	364	899	1010	834	924	2070	4390	9270	8400	1980	530	670
7	364	1020	1100	818	930	2120	3840	8340	8240	2120	518	537
8	367	891	1030	826	943	2100	3500	7940	8370	1830	498	470
9	746	815	965	846	1110	2050	3650	8080	7680	1710	483	537
10	718	759	948	822	1200	1950	4260	8280	6710	1640	475	636
11	536	710	955	805	1200	1920	4920	7240	6310	1530	473	891
12	456	685	1000	778	1150	1810	5750	6660	6130	1440	481	779
13	433	671	1210	750	1110	1720	7850	6240	7710	1370	467	619
14	439	664	1070	764	1140	1720	9370	6120	6640	1290	444	530
15	430	650	1040	824	1460	1690	8360	6470	7750	1230	430	480
16	406	620	1310	830	1400	1620	7910	7320	6660	1170	422	450
17	401	637	1860	861	1310	1600	7690	8320	5680	1110	411	436
18	397	682	2220	829	1180	1530	8220	9190	5270	1060	405	468
19	392	633	2120	802	1100	1800	9460	9770	5080	1020	396	460
20	392	655	1690	797	1040	1700	10000	9790	4760	980	392	440
21	388	715	1470	801	1090	1600	10300	10800	4440	950	387	504
22	382	655	1320	801	1180	1570	11300	12100	4290	899	386	494
23	381	594	1180	793	1200	2010	10100	12400	4090	860	386	457
24	376	548	986	782	1290	2050	8600	10900	3750	827	382	434
25	370	1870	911	794	1260	2000	7520	10300	3570	799	381	425
26	389	5330	893	825	1220	1990	6900	10100	3340	766	384	417
27	506	3440	866	815	1300	2130	6840	9250	3110	743	369	405
28	1080	2130	822	789	1730	2740	8780	11100	2910	712	360	396
29	1650	1660	840	726	1800	2770	8090	10100	2740	688	355	392
30	991	1510	780	621	---	2530	7300	8960	2580	665	350	552
31	787	---	811	613	---	2360	---	8990	---	648	348	---
TOTAL	16022	32896	36640	25157	33775	60010	200110	282890	174880	41087	13826	15601
MEAN	517	1097	1182	812	1165	1936	6670	9125	5829	1325	446	520
MAX	1650	5330	2220	1020	1800	2770	11300	12400	8400	2440	628	891
MIN	364	548	780	613	678	1530	2330	6120	2580	648	348	392
AC-FT	31780	65250	72680	49900	66990	119000	396900	561100	346900	81500	27420	30940
CFSM	.44	.93	1.00	.69	.99	1.64	5.65	7.73	4.94	1.12	.38	.44
IN.	.51	1.04	1.16	.79	1.06	1.89	6.31	8.92	5.51	1.30	.44	.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2000, BY WATER YEAR (WY)

MEAN	744	1092	1246	1115	1302	1841	4879	10180	8359	2198	674	562
MAX	3476	4942	6183	4245	5132	5250	10750	17290	19710	6098	1462	1602
(WY)	1960	1996	1996	1934	1996	1934	1934	1997	1974	1975	1975	1968
MIN	261	289	330	251	325	597	1852	5293	2226	734	326	278
(WY)	1988	1953	1953	1937	1937	1955	1975	1941	1987	1931	1940	1988

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1911 - 2000	
ANNUAL TOTAL	1185520		932894			
ANNUAL MEAN	3248		2549		2852	
HIGHEST ANNUAL MEAN					4498	1996
LOWEST ANNUAL MEAN					1495	1977
HIGHEST DAILY MEAN	21900	May 26	12400	May 23	31900	May 29 1948
LOWEST DAILY MEAN	364	Oct 6	348	Aug 31	110	Nov 28 1952
ANNUAL SEVEN-DAY MINIMUM	369	Oct 2	364	Aug 25	156	Nov 25 1952
ANNUAL RUNOFF (AC-FT)	2351000		1850000		2066000	
ANNUAL RUNOFF (CFSM)	2.75		2.16		2.42	
ANNUAL RUNOFF (INCHES)	37.37		29.41		32.83	
10 PERCENT EXCEEDS	9030		8130		8230	
50 PERCENT EXCEEDS	1370		1050		1130	
90 PERCENT EXCEEDS	430		410		428	

13338500 SOUTH FORK CLEARWATER RIVER AT STITES, ID

LOCATION.--Lat 46°05'12", long 115°58'32", in NE¼SE¼NE¼ sec.29, T.32 N., R.4 E., Idaho County, Hydrologic Unit 17060305, on left bank at Stites, 0.4 mi upstream from county road bridge, 0.4 mi downstream from Cottonwood Creek, and at mile 4.0.

DRAINAGE AREA.--1,150 mi^2, approximately.

PERIOD OF RECORD.--October 1910 to April 1912, October 1964 to current year. Published as "at Kooskia," 1910-12.

REVISED RECORDS.--WSP 1317: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,311.99 ft above sea level. October 1910 to April 1912, nonrecording gage 3.6 mi downstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,100 ft^3/s Feb. 7, 1996, gage height, 8.82 ft; minimum, 48 ft^3/s Nov. 30, 1987, gage height, 2.39 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 8, 1964, reached a stage of 10.3 ft, from floodmarks, present site and datum, discharge, 17,500 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 10	0430	*3,590	*5.57	No peaks greater than base discharge.			

Minimum daily, 118 ft^3/s Aug. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208	228	375	272	304	665	854	1540	1760	524	187	142
2	192	201	363	294	331	602	885	1750	1520	515	179	307
3	179	185	321	268	324	580	1030	1780	1470	513	173	246
4	174	198	258	264	317	595	1250	3050	1420	526	169	204
5	172	283	162	276	314	643	1660	2660	1450	492	169	356
6	168	256	253	250	312	693	1530	2790	1460	468	167	503
7	168	262	286	258	315	693	1320	2180	1380	458	159	289
8	169	231	276	264	325	679	1200	1920	1350	435	154	221
9	175	215	244	269	377	663	1220	2290	1310	420	150	230
10	203	208	256	269	411	671	1360	3320	1260	421	148	278
11	197	195	255	265	398	631	1480	2870	1360	387	148	377
12	181	190	247	252	406	584	1650	2830	1230	365	146	389
13	173	187	279	238	441	561	2160	2620	1610	348	141	270
14	167	181	265	266	638	561	2440	2400	1300	332	137	218
15	162	176	258	299	944	553	2160	2350	1270	317	135	193
16	162	172	272	295	627	530	2060	2310	1160	310	134	179
17	162	183	454	317	521	522	1910	2450	1030	300	131	175
18	165	237	566	305	439	500	1880	2270	968	288	130	177
19	170	225	538	294	373	562	2150	2210	938	285	129	174
20	166	206	442	287	365	582	2160	2160	911	315	127	247
21	165	217	392	294	417	513	2170	2130	853	310	128	219
22	163	192	349	290	433	525	2490	2300	815	286	127	218
23	162	187	281	267	438	831	2530	2260	783	259	127	196
24	159	156	237	272	483	786	2010	2020	740	244	126	178
25	158	233	222	289	470	722	1740	1900	702	235	146	172
26	172	1280	227	320	454	723	1770	1840	672	226	154	168
27	219	1020	223	304	478	784	1640	1770	639	218	136	164
28	352	535	210	268	632	1420	1970	2300	607	210	127	160
29	462	392	213	203	627	1170	1760	2070	576	204	123	157
30	329	360	200	e180	---	990	1520	1820	547	198	120	169
31	253	---	217	e180	---	889	---	1910	---	193	118	---
TOTAL	6107	8791	9141	8369	12914	21423	51959	70070	33091	10602	4445	6976
MEAN	197	293	295	270	445	691	1732	2260	1103	342	143	233
MAX	462	1280	566	320	944	1420	2530	3320	1760	526	187	503
MIN	158	156	162	180	304	500	854	1540	547	193	118	142
AC-FT	12110	17440	18130	16600	25610	42490	103100	139000	65640	21030	8820	13840
CFSM	.17	.25	.26	.23	.39	.60	1.51	1.97	.96	.30	.12	.20
IN.	.20	.28	.30	.27	.42	.69	1.68	2.27	1.07	.34	.14	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2000, BY WATER YEAR (WY)

MEAN	280	360	457	535	646	994	2075	3275	2473	815	289	245
MAX	677	893	2365	1665	2211	2387	3549	5528	5706	2063	528	473
(WY)	1976	1969	1976	1969	1996	1978	1978	1976	1975	1975	1975	1968
MIN	108	139	167	144	227	312	807	947	463	314	137	114
(WY)	1988	1988	1988	1988	1994	1977	1973	1992	1992	1973	1973	1987

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1912 - 2000	
ANNUAL TOTAL	367153		243888			
ANNUAL MEAN	1006		666		1036	
HIGHEST ANNUAL MEAN					1711	1976
LOWEST ANNUAL MEAN					451	1992
HIGHEST DAILY MEAN	4620	May 26	3320	May 10	9400	May 29 1912
LOWEST DAILY MEAN	143	Sep 25	118	Aug 31	60	Nov 30 1987
ANNUAL SEVEN-DAY MINIMUM	147	Sep 20	128	Aug 18	87	Dec 29 1987
ANNUAL RUNOFF (AC-FT)	728200		483800		750600	
ANNUAL RUNOFF (CFSM)	.87		.58		.90	
ANNUAL RUNOFF (INCHES)	11.88		7.89		12.24	
10 PERCENT EXCEEDS	2800		1900		2800	
50 PERCENT EXCEEDS	523		317		461	
90 PERCENT EXCEEDS	173		163		188	

e Estimated

CLEARWATER RIVER BASIN

13339500 LOLO CREEK NEAR GREER, ID

LOCATION.--Lat 46°22'20", long 116°09'40", in NE¼SE¼SE¼ sec.14, T.35 N., R.2 E., Idaho County, Hydrologic Unit 17060306, on left bank, upstream side of county road bridge 2,000 ft upstream from mouth, 1.35 mi southeast of Greer, and 8.5 mi southeast of Orofino.

DRAINAGE AREA.--243 mi^2.

PERIOD OF RECORD.--October 1979 to current year. Daily record, December 1911 to December 1912, published in WSP 332. Miscellaneous streamflow measurements made 1928, 1929, and 1964 are published in Miscellaneous Streamflow Measurements in Idaho, 1894-1967.

GAGE.--Water-stage recorder. Elevation of gage is 1,120 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,990 ft^3/s Feb. 9, 1996, gage height, 17.01 ft; minimum daily, 15 ft^3/s Nov. 27, 30, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 26	0330	1,220	11.95	Mar. 28	1400	1,360	12.20
Mar. 23	1830	1,270	12.04	Apr. 5	1000	1,300	12.10
				Apr. 14	0930	*1,420	*12.31

Minimum daily, 20 ft^3/s Aug. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	86	193	137	153	822	743	686	453	105	37	23
2	30	73	194	136	245	765	757	748	351	102	35	51
3	29	63	191	123	336	722	828	760	315	104	33	61
4	30	68	146	125	289	761	974	1030	291	122	33	52
5	30	93	123	123	253	812	1210	899	280	107	31	49
6	30	83	146	119	231	794	1060	821	268	101	30	85
7	29	112	134	120	226	715	879	719	254	97	29	62
8	30	84	124	124	242	655	774	655	248	92	28	47
9	86	73	115	127	335	617	785	683	279	87	28	43
10	128	69	115	123	384	547	853	818	270	82	27	51
11	67	64	119	121	349	563	919	758	273	78	28	115
12	51	61	123	120	311	533	971	837	277	75	30	103
13	45	59	171	109	296	498	1160	786	464	72	30	65
14	44	56	164	116	377	568	1360	701	316	68	27	51
15	42	54	158	125	852	646	1210	659	297	65	26	44
16	40	52	228	134	674	581	1100	641	264	64	25	40
17	39	56	470	146	539	598	1050	635	234	62	24	38
18	39	102	609	146	425	522	1020	603	215	60	24	36
19	39	99	621	146	358	746	1070	573	202	58	23	35
20	39	81	436	140	334	721	1020	550	198	56	23	36
21	38	104	339	140	333	592	1010	525	181	54	23	42
22	38	91	273	137	330	558	1100	521	169	52	23	52
23	38	76	209	125	356	1090	1110	503	158	49	23	42
24	37	71	176	130	378	1060	912	459	149	47	23	36
25	37	300	161	137	344	869	803	435	142	46	24	35
26	41	1110	172	160	330	755	844	410	136	44	25	34
27	84	657	170	155	479	759	763	392	128	43	23	33
28	182	315	135	143	912	1210	862	404	121	41	22	33
29	233	218	129	113	895	1120	803	363	115	40	21	32
30	147	186	116	94	---	891	689	335	109	39	21	37
31	92	---	118	140	---	777	---	428	---	38	20	---
TOTAL	1865	4616	6578	4034	11566	22867	28639	19337	7157	2150	819	1463
MEAN	60.2	154	212	130	399	738	955	624	239	69.4	26.4	48.8
MAX	233	1110	621	160	912	1210	1360	1030	464	122	37	115
MIN	29	52	115	94	153	498	689	335	109	38	20	23
AC-FT	3700	9160	13050	8000	22940	45360	56810	38350	14200	4260	1620	2900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2000, BY WATER YEAR (WY)

MEAN	77.2	171	190	227	442	639	893	764	409	143	58.3	60.8
MAX	174	708	810	631	1487	1201	1746	2119	1158	322	107	171
(WY)	1996	1996	1996	1996	1996	1986	1997	1912	1912	1997	1993	1985
MIN	28.3	43.2	69.6	59.9	76.0	276	445	187	80.9	64.0	25.7	26.2
(WY)	1992	1988	1988	1988	1985	1985	1992	1992	1992	1988	1988	1988

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1912 - 2000	
ANNUAL TOTAL	139920		111091			
ANNUAL MEAN	383		304		328	
HIGHEST ANNUAL MEAN					613	1996
LOWEST ANNUAL MEAN					182	1992
HIGHEST DAILY MEAN	2510	Mar 1	1360	Apr 14	5410	Feb 9 1996
LOWEST DAILY MEAN	26	Sep 23	20	Aug 31	15	Nov 27 1988
ANNUAL SEVEN-DAY MINIMUM	27	Sep 20	22	Aug 26	17	Nov 26 1988
ANNUAL RUNOFF (AC-FT)	277500		220300		237400	
10 PERCENT EXCEEDS	918		821		855	
50 PERCENT EXCEEDS	216		140		157	
90 PERCENT EXCEEDS	38		32		45	

CLEARWATER RIVER BASIN

13340000 CLEARWATER RIVER AT OROFINO, ID

LOCATION.--Lat 46°28'43", long 116°15'23", in SW¼SE¼NW¼ sec.7, T.36 N., R.2 E., Clearwater County, Hydrologic Unit 17060306, on right bank 56 ft upstream from State Highway 7 bridge at Orofino, and at mile 44.6.

DRAINAGE AREA.--5,580 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1930 to September 1938, October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 990.80 ft above sea level (levels by Idaho Department of Highways). Prior to Sept. 30, 1938, nonrecording gage at site 0.1 mi downstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 87,300 ft^3/s June 2, 1972, gage height, 18.84 ft, present datum; minimum observed, probably less than 250 ft^3/s Jan. 8, 1937, during period of ice effect; minimum gage height, 1.96 ft, Nov. 30, 1979.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 8, 1964, reached a stage of 20.32 ft, present site and datum, discharge, 99,700 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 22	1445	32,000	11.13	May 4	1715	32,700	11.25
				May 23	1130	*37,800	*12.07

Minimum daily, 1,170 ft^3/s Aug. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1430	2210	4120	2700	2390	8270	8900	21200	23800	7250	1970	1210
2	1400	2040	4060	3360	3500	7920	8980	25600	21200	6940	1890	1680
3	1340	1810	3930	3000	4390	7580	10000	26500	21800	6720	1820	1830
4	1310	1720	3490	2810	4140	7890	11000	30400	22700	6530	1770	1740
5	1300	2240	2770	2780	3820	8560	14000	28700	23600	6070	1740	1690
6	1300	2240	2560	2710	3680	8860	15500	27200	24700	5700	1710	2700
7	1280	2700	3040	2650	3640	8700	13700	24200	24300	6210	1650	2100
8	1280	2680	3040	2630	3660	8530	12100	22600	24800	5630	1600	1700
9	1510	2380	2840	2710	4180	8270	11900	22600	22600	5160	1550	1600
10	2210	2250	2690	2750	4980	7890	13200	25000	20000	5060	1520	2000
11	1920	2110	2710	2710	5000	7690	15100	22600	18900	4710	1510	2570
12	1630	2030	2780	2630	4820	7430	17000	21300	17100	4380	1510	3050
13	1490	1980	3190	2520	4740	6940	21600	19900	22800	4140	1500	2470
14	1440	1950	3410	2460	5080	7010	27300	18800	20800	3940	1460	1970
15	1420	1910	3240	2640	8930	7190	24900	18900	21200	3730	1410	1720
16	1400	1860	3740	2800	7820	6720	23000	20400	20500	3540	1380	1580
17	1370	1820	6060	2900	6720	6650	21600	22800	17000	3380	1360	1510
18	1370	2030	7000	2950	5800	6280	21700	25300	15500	3210	1340	1540
19	1370	2090	8110	2890	5080	7090	25200	27200	14800	3100	1310	1550
20	1370	1960	6510	2820	4580	7370	27400	27300	14300	3070	1300	1600
21	1360	2040	5400	2810	4530	6620	27400	29200	13100	2970	1290	1690
22	1340	2100	4690	2810	4810	6350	30500	33300	12500	2830	1280	1770
23	1330	1920	4080	2760	4970	8890	29500	35700	12100	2670	1270	1650
24	1300	1770	3490	2690	5390	9620	25100	31500	11200	2560	1260	1530
25	1290	2660	2990	2740	5400	8620	21800	29200	10400	2460	1270	1490
26	1300	11800	2860	2970	5190	8170	20200	28800	9910	2380	1340	1470
27	1570	12600	2790	3020	5690	8350	18900	26700	9190	2310	1300	1440
28	2150	7080	2680	2910	8290	11300	22800	30200	8610	2230	1230	1400
29	3970	5110	2580	2660	8730	11800	23600	30800	8110	2150	1200	1370
30	3570	4270	2580	2320	---	10400	20800	27300	7670	2080	1180	1430
31	2460	---	2350	2120	---	9370	---	26300	---	2030	1170	---
TOTAL	50780	93360	115780	85230	149950	252330	584680	807500	515190	125140	45090	53050
MEAN	1638	3112	3735	2749	5171	8140	19490	26050	17170	4037	1455	1768
MAX	3970	12600	8110	3360	8930	11800	30500	35700	24800	7250	1970	3050
MIN	1280	1720	2350	2120	2390	6280	8900	18800	7670	2030	1170	1210
AC-FT	100700	185200	229600	169100	297400	500500	1160000	1602000	1022000	248200	89440	105200
CFSM	.29	.56	.67	.49	.93	1.46	3.49	4.67	3.08	.72	.26	.32
IN.	.34	.62	.77	.57	1.00	1.68	3.90	5.38	3.43	.83	.30	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2000, BY WATER YEAR (WY)

MEAN	2128	3225	3930	4143	5141	7806	15640	28810	24290	6702	2126	1794
MAX	5305	13170	18430	11000	19200	19890	28010	48070	53100	18200	4497	4756
(WY)	1969	1996	1996	1934	1996	1972	1936	1997	1974	1975	1975	1968
MIN	833	925	1124	800	1030	2365	6390	17110	6450	2009	971	860
(WY)	1988	1937	1936	1937	1937	1937	1973	1977	1934	1934	1931	1987

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1931 - 2000	
ANNUAL TOTAL	3601380		2878080			
ANNUAL MEAN	9867		7864		8812	
HIGHEST ANNUAL MEAN					14400	1996
LOWEST ANNUAL MEAN					4741	1977
HIGHEST DAILY MEAN	60000	May 26	35700	May 23	81200	Jun 2 1972
LOWEST DAILY MEAN	1150	Sep 25	1170	Aug 31	250	Jan 8 1937
ANNUAL SEVEN-DAY MINIMUM	1180	Sep 21	1230	Aug 26	529	Jan 3 1937
ANNUAL RUNOFF (AC-FT)	7143000		5709000		6384000	
ANNUAL RUNOFF (CFSM)	1.77		1.41		1.58	
ANNUAL RUNOFF (INCHES)	24.01		19.19		21.46	
10 PERCENT EXCEEDS	25300		22900		24600	
50 PERCENT EXCEEDS	5030		3520		3770	
90 PERCENT EXCEEDS	1410		1400		1330	

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to September 1989, October 1993 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1993 to current year.

INSTRUMENTATION.--Temperature recorder since October 1993.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 29.5 °C July 25, 1994; minimum, 0.0 °C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 29.0 °C Aug. 1; minimum, 0.0 °C many times during winter months.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.5	9.5	6.5	4.5	5.5	4.5	1.5	.0	3.0	1.5	5.5	3.5
2	12.5	8.5	5.5	3.5	5.0	3.5	2.0	.5	3.0	1.5	5.5	3.0
3	11.5	7.0	5.5	3.5	3.5	2.0	1.5	.5	3.0	1.5	6.0	4.5
4	12.0	7.5	7.5	4.5	2.0	.5	1.5	.0	3.0	1.5	6.0	4.0
5	12.0	8.5	5.5	4.0	2.5	.5	2.0	.5	3.5	2.0	5.5	4.5
6	13.5	10.0	7.0	5.0	2.5	1.5	1.5	.5	4.5	2.5	5.0	4.0
7	13.0	10.5	7.5	6.0	3.0	2.0	2.5	1.0	4.0	2.0	5.5	4.0
8	13.0	11.0	7.5	5.5	3.0	2.0	2.5	1.5	4.5	3.0	6.0	4.0
9	14.0	11.5	8.0	6.5	3.0	2.0	2.5	1.5	4.5	2.0	5.5	4.0
10	12.0	9.5	8.0	7.0	3.5	2.0	2.0	.5	3.5	2.0	6.0	4.0
11	13.0	10.0	8.0	6.5	3.0	2.0	2.0	.5	3.0	2.0	5.5	4.5
12	13.5	11.0	8.0	7.0	3.5	2.0	2.0	.5	3.5	2.0	5.5	3.5
13	14.0	10.0	10.5	8.0	3.0	2.0	2.0	.5	4.0	2.0	6.5	4.5
14	13.5	10.0	8.5	6.0	2.5	1.5	2.5	1.0	4.0	2.5	6.0	5.0
15	10.5	7.5	6.5	5.0	2.5	1.5	3.0	1.5	4.0	2.5	5.5	4.0
16	9.0	5.5	6.5	4.5	4.0	2.5	3.0	1.5	4.5	2.5	4.5	3.5
17	8.5	4.5	7.0	5.5	3.0	2.0	2.5	1.5	3.5	1.5	4.5	3.5
18	8.5	5.0	7.0	5.0	4.5	3.0	2.0	.5	3.0	1.5	5.5	3.5
19	8.0	4.5	6.0	4.5	3.5	2.5	2.5	1.0	3.0	1.0	5.0	4.0
20	8.5	5.0	6.5	5.0	4.0	3.0	3.0	1.0	3.5	1.0	5.0	3.0
21	8.5	5.0	5.0	3.5	4.0	3.0	3.5	2.0	4.5	2.5	5.5	3.0
22	8.5	5.0	4.5	3.0	4.0	2.5	3.5	2.0	4.5	3.0	7.0	4.0
23	8.5	5.5	3.5	2.5	2.5	1.0	3.0	1.5	5.0	3.5	6.5	5.0
24	9.5	6.5	4.0	3.0	1.5	.5	3.5	1.5	4.5	3.0	6.0	4.0
25	9.0	6.0	5.5	4.0	2.0	.5	3.0	2.0	4.5	3.0	6.0	3.5
26	10.0	7.5	5.5	4.0	1.5	.5	3.5	2.0	5.5	3.0	6.5	3.5
27	8.5	7.0	5.0	4.0	2.0	1.0	3.5	2.0	5.0	4.0	6.5	4.5
28	9.0	7.0	4.5	3.0	1.5	.5	3.5	1.5	4.5	3.0	6.5	5.5
29	9.0	8.0	4.5	3.0	1.5	.5	3.0	.0	4.5	3.0	6.0	4.5
30	9.5	7.5	5.5	4.0	1.0	.0	1.5	.0	---	---	6.0	4.0
31	9.0	6.5	---	---	1.0	.0	2.0	.5	---	---	6.5	4.5
MONTH	14.0	4.5	10.5	2.5	5.5	.0	3.5	.0	5.5	1.0	7.0	3.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.0	5.5	11.5	8.5	13.5	10.5	22.0	20.0	29.0	24.0	19.5	17.0
2	8.0	7.0	11.5	9.5	15.0	11.5	22.5	19.0	28.5	23.0	18.0	15.0
3	8.5	6.0	10.0	8.0	16.5	13.0	21.0	18.0	28.0	22.5	18.0	14.0
4	9.0	7.0	10.0	8.0	16.5	13.5	20.5	16.5	28.0	23.0	17.5	14.0
5	---	---	9.5	7.5	16.0	14.0	20.0	17.5	27.5	21.5	16.0	14.5
6	7.5	5.5	10.5	8.0	16.0	13.5	20.5	17.5	28.0	22.0	16.0	13.5
7	8.0	4.5	11.0	8.0	17.0	14.0	21.5	17.5	27.5	21.5	17.5	13.0
8	9.0	5.0	11.0	8.5	17.0	15.0	20.5	18.5	27.5	20.5	16.5	14.5
9	9.5	6.5	10.5	8.5	15.5	13.5	23.0	18.5	27.5	20.5	17.0	14.0
10	10.0	7.0	10.0	8.0	14.5	12.5	23.5	19.0	27.0	21.5	15.5	14.0
11	9.5	7.0	8.5	7.5	14.0	11.5	24.5	19.5	26.0	21.0	16.0	13.5
12	10.0	7.5	10.5	7.5	14.0	12.0	23.5	20.5	25.0	18.5	17.5	13.5
13	10.0	8.0	12.0	8.0	15.5	12.5	24.0	22.5	24.5	18.5	19.0	15.0
14	8.5	6.5	12.5	10.0	16.0	13.5	24.5	23.0	24.0	17.5	20.0	16.0
15	8.5	6.5	14.0	10.5	16.5	14.5	24.0	23.0	24.0	17.5	20.5	17.0
16	8.0	6.5	14.5	11.5	17.0	13.5	23.0	22.0	24.5	17.0	20.0	17.5
17	10.5	6.0	13.5	11.5	18.0	13.5	23.5	21.5	24.0	17.0	21.0	17.0
18	10.5	7.5	13.5	11.5	17.5	15.0	25.5	22.5	23.5	17.5	19.5	17.0
19	10.5	8.0	13.0	11.0	17.5	15.0	26.0	21.0	22.5	17.5	21.0	17.5
20	10.0	8.0	12.5	10.0	17.5	15.0	27.0	22.0	23.0	16.0	17.5	15.0
21	10.0	7.5	13.5	11.0	19.0	15.5	27.5	22.0	23.0	15.5	16.0	13.5
22	9.5	7.0	13.5	11.5	20.0	17.5	26.5	23.0	23.0	16.0	15.0	11.5
23	8.0	6.0	13.0	11.0	20.0	17.5	26.5	22.0	23.0	16.0	13.5	9.0
24	9.0	6.0	12.5	10.5	19.5	17.5	26.5	21.0	24.0	18.0	13.5	8.0
25	8.0	6.5	13.0	10.5	20.5	17.5	27.0	21.0	24.0	18.5	14.0	8.0
26	9.5	5.5	13.5	11.5	21.0	18.5	26.5	21.0	23.0	18.0	14.0	8.0
27	11.5	7.5	12.5	11.0	21.5	19.0	27.0	21.0	22.0	17.0	14.0	8.5
28	11.0	9.0	13.5	11.0	22.0	19.5	27.5	21.0	22.0	16.0	14.0	9.5
29	9.5	7.5	14.0	11.5	22.0	20.0	28.0	22.0	21.5	15.5	13.5	10.0
30	10.5	6.5	13.5	11.5	22.5	19.5	28.5	22.5	22.0	17.5	14.0	12.5
31	---	---	12.5	11.0	---	---	28.5	23.5	21.5	17.0	---	---
MONTH	---	---	14.5	7.5	22.5	10.5	28.5	16.5	29.0	15.5	21.0	8.0

CLEARWATER RIVER BASIN

13340600 NORTH FORK CLEARWATER RIVER NEAR CANYON RANGER STATION, ID

LOCATION.--Lat 46°50'26", long 115°37'11", in SE¼SE¼NE¼ sec.6, T.40 N., R.7 E., Clearwater County, Hydrologic Unit 17060307, Clearwater National Forest, on left bank immediately upstream from forest road bridge, 0.1 mi upstream from Beaver Creek, 1.7 mi downstream from Canyon Ranger Station, and at mile 58.0.

DRAINAGE AREA.--1,360 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,660.00 ft above sea level.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,500 ft^3/s Nov. 30, 1995, gage height, 17.58 ft, from rating curve extended above 29,500 ft^3/s; minimum, 200 ft^3/s Dec. 5, 1972, gage height, 5.00 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 14	0545	*14,900	*12.50	May 4	0545	14,000	12.26
Apr. 22	1715	14,700	12.46	May 23	0215	13,800	12.17

Minimum daily, 691 ft^3/s Sept. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	790	1330	2380	1630	1160	e2400	3690	9360	8660	3070	1120	816
2	773	1120	2220	1550	2140	2340	3920	10800	8280	2920	1080	1130
3	767	1030	2120	1420	2000	2340	4350	11200	8420	2950	1060	985
4	764	1230	1780	1420	1690	2540	5220	12900	8440	2890	1050	860
5	760	1320	1580	1410	1590	2880	6820	11500	8820	2620	1030	915
6	752	1570	1730	1390	1560	3180	6260	10600	8940	2590	1000	1100
7	748	1550	1790	1360	1530	3280	5370	9680	8760	2560	985	904
8	769	1310	1650	1410	1550	3240	4920	9190	8860	2340	962	829
9	1710	1300	1550	1400	1740	3090	5190	9470	8350	2230	947	853
10	1280	1220	1550	1320	1830	2920	5990	9780	7390	2130	934	1030
11	925	1150	1540	1310	1770	2830	6850	8720	6880	2020	965	1500
12	865	1130	1720	1300	1720	2660	7690	8140	6750	1930	955	1110
13	882	1130	2460	1220	1680	2520	10600	7600	7690	1860	908	898
14	855	1120	1960	1290	1720	2560	14200	7410	6740	1790	882	827
15	819	1050	1830	1500	2030	2500	12400	7630	7480	1720	868	788
16	799	1010	2270	1410	1850	2410	11100	8410	6770	1670	855	767
17	782	1020	3280	1420	1750	2420	10500	9670	6190	1620	843	804
18	788	1150	3670	1350	1620	2300	10800	10500	5880	1570	832	767
19	776	1040	3550	1300	1530	2780	12000	11100	5660	1540	817	746
20	764	1250	2860	1290	1450	2600	12300	11200	5360	1500	820	735
21	756	1320	2470	1300	e1600	2420	12600	11700	5050	1460	817	852
22	749	1150	2200	1280	e1700	2430	14200	12500	4890	1410	805	824
23	742	1050	1970	1260	e1800	3420	13200	12900	4650	1370	792	737
24	734	1030	1710	1240	e1800	3360	11200	11900	4370	1340	776	729
25	728	2530	1570	1250	e1800	3240	9790	11300	4200	1310	790	723
26	822	9140	1560	1260	e1800	3160	8880	10900	3950	1280	763	717
27	1250	5580	1530	1230	e1900	3450	8670	10200	3740	1250	741	704
28	2560	3440	1420	1190	e2200	4600	10200	10700	3550	1220	735	696
29	2810	2710	1400	1110	e2400	4320	9350	10000	3380	1190	728	691
30	1590	2460	1300	888	---	3860	8680	9380	3220	1160	723	911
31	1360	---	1350	860	---	3640	---	9850	---	1140	721	---
TOTAL	31469	54440	61970	40568	50910	91690	266940	316190	191320	57650	27304	25948
MEAN	1015	1815	1999	1309	1756	2958	8898	10200	6377	1860	881	865
MAX	2810	9140	3670	1630	2400	4600	14200	12900	8940	3070	1120	1500
MIN	728	1010	1300	860	1160	2300	3690	7410	3220	1140	721	691
AC-FT	62420	108000	122900	80470	101000	181900	529500	627200	379500	114300	54160	51470
CFSM	.75	1.33	1.47	.96	1.29	2.17	6.54	7.50	4.69	1.37	.65	.64
IN.	.86	1.49	1.70	1.11	1.39	2.51	7.30	8.65	5.23	1.58	.75	.71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2000, BY WATER YEAR (WY)

MEAN	1038	1647	1868	1821	2359	3215	6251	10890	8348	2660	1152	945
MAX	2346	6581	8582	5106	8133	7429	9931	20670	20630	4934	1713	1675
(WY)	1969	1996	1996	1974	1996	1986	1990	1997	1974	1975	1975	1968
MIN	551	609	708	665	722	1247	2710	5955	2367	1151	698	595
(WY)	1988	1988	1979	1979	1985	1977	1975	1973	1992	1977	1973	1987

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1967 - 2000	
ANNUAL TOTAL	1494884		1216399			
ANNUAL MEAN	4096		3323		3505	
HIGHEST ANNUAL MEAN					5657	1996
LOWEST ANNUAL MEAN					1830	1977
HIGHEST DAILY MEAN	22100	May 26	14200	Apr 14	34200	Nov 30 1995
LOWEST DAILY MEAN	728	Oct 25	691	Sep 29	253	Dec 5 1972
ANNUAL SEVEN-DAY MINIMUM	750	Oct 19	714	Sep 23	446	Dec 4 1972
ANNUAL RUNOFF (AC-FT)	2965000		2413000		2539000	
ANNUAL RUNOFF (CFSM)	3.01		2.44		2.58	
ANNUAL RUNOFF (INCHES)	40.89		33.27		35.02	
10 PERCENT EXCEEDS	10300		9410		9200	
50 PERCENT EXCEEDS	2210		1700		1750	
90 PERCENT EXCEEDS	865		790		778	

e Estimated

13340600 NORTH FORK CLEARWATER RIVER NEAR CANYON RANGER STATION, ID--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to 1983, October 1986 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: February 1970 to September 1983, October 1986 to current year.

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 24.0 °C August 8, 1983; minimum, 0.0 °C on many days during winter months.

EXTREMES FOR CURRENT PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 22.5 °C August 1-2; minimum, 1.0 °C on many days during winter months.

REMARKS.--Missing data due to equipment malfunction.

WATER TEMPERATURE, DEGREES CELSIUS, OCTOBER 1999 TO SEPTEMBER 2000

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---	22.5	20.0	16.5	15.0
2	---	---	---	---	---	---	---	---	22.5	20.0	15.5	14.5
3	---	---	---	---	---	---	---	---	22.0	19.5	15.5	13.0
4	---	---	---	---	---	---	---	---	21.5	19.5	15.0	13.0
5	---	---	---	---	---	---	---	---	21.5	19.0	14.5	13.0
6	---	---	---	---	---	---	---	---	21.5	19.0	13.0	12.0
7	---	---	---	---	---	---	---	---	21.5	19.0	14.0	11.5
8	---	---	---	---	---	---	---	---	21.0	19.0	13.0	12.5
9	---	---	---	---	---	---	---	---	21.0	18.5	13.0	12.0
10	---	---	---	---	---	---	---	---	20.5	19.0	12.0	11.5
11	---	---	---	---	---	---	---	---	21.0	19.0	---	---
12	---	---	---	---	---	---	18.5	15.0	20.0	18.0	---	---
13	---	---	---	---	---	---	20.0	16.5	20.0	17.5	---	---
14	---	---	---	---	---	---	20.5	17.5	19.5	17.0	---	---
15	---	---	---	---	---	---	19.5	17.5	19.0	16.5	---	---
16	---	---	---	---	---	---	18.5	16.0	19.0	16.0	---	---
17	---	---	---	---	---	---	19.0	15.0	18.5	16.0	---	---
18	---	---	---	---	---	---	19.0	15.5	19.0	16.0	---	---
19	---	---	---	---	---	---	20.0	16.0	17.5	16.0	---	---
20	---	---	---	---	---	---	21.0	17.0	18.0	15.0	---	---
21	---	---	---	---	---	---	21.0	17.0	17.5	15.0	---	---
22	---	---	---	---	---	---	20.5	17.5	17.5	15.0	---	---
23	---	---	---	---	---	---	20.5	18.0	18.0	15.0	---	---
24	---	---	---	---	---	---	20.5	17.5	18.5	15.5	---	---
25	---	---	---	---	---	---	20.5	17.0	20.0	16.5	---	---
26	---	---	---	---	---	---	20.5	17.0	19.5	17.0	---	---
27	---	---	---	---	---	---	20.5	17.5	18.5	15.0	---	---
28	---	---	---	---	---	---	21.0	18.0	18.5	14.5	---	---
29	---	---	---	---	---	---	21.5	18.5	17.5	14.0	---	---
30	---	---	---	---	---	---	22.0	19.0	17.5	14.5	---	---
31	---	---	---	---	---	---	22.0	20.0	18.5	14.5	---	---
MONTH	---	---	---	---	---	---	---	---	22.5	14.0	---	---

CLEARWATER RIVER BASIN

13340950 DWORSHAK RESERVOIR NEAR AHSAHKA, ID

LOCATION.--Lat 46°31'00", long 116°17'30", in SW¼SE¼ sec.26, T.37 N., R.1 E., Clearwater County, Hydrologic Unit 17060308, at Dam, 1.5 mi northeast of Ahsahka, and at mile 2.0.

DRAINAGE AREA.--2,440 mi^2, approximately. Mean elevation, 4,220 ft.

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder located in gage slot 6 on the 1,603 ft level. Datum of gage is sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Reservoir is formed by straight-axis concrete gravity dam. Total capacity is 3,469,000 acre-ft between elevations 970.0 ft, bottom of bypass valve, and 1,600.0 ft, normal full pool elevation. Inactive storage for minimum power head is 1,452,000 acre-ft, elevation, 1,445.0 ft. Storage began Sept. 27, 1971. Dworshak Dam is used to regulate annual floodwaters of the North Fork Clearwater River and for power generation.

COOPERATION.--Capacity table provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 3,472,000 acre-ft Aug. 16, 1978, and June 6, 1981, elevation 1,600.21 ft; minimum since full capacity was reached July 29, 1974, 1,455,000 acre-ft Mar. 29, 30, 1976, Apr. 10, 1999; minimum elevation observed, 1,445.31 ft, Apr. 10, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 3,446,000 acre-ft June 29, elevation, 1,598.84 ft; minimum contents observed, 2,178,000 acre-ft Mar. 18, 19, elevation, 1,515.37 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2221000	2228000	2333000	2478000	2352000	2287000	2272000	2358000	3086000	3438000	2867000	2238000
2	2220000	2228000	2339000	2481000	2347000	2281000	2281000	2363000	3109000	3433000	2846000	2238000
3	2220000	2228000	2344000	2484000	2348000	2281000	2282000	2370000	3131000	3428000	2823000	2238000
4	2219000	2229000	2347000	2486000	2351000	2281000	2283000	2385000	3156000	3422000	2801000	2237000
5	2218000	2230000	2350000	2488000	2353000	2284000	2280000	2401000	3179000	3417000	2778000	2237000
6	2217000	2233000	2353000	2490000	2355000	2280000	2273000	2412000	3204000	3411000	2756000	2238000
7	2216000	2235000	2356000	2490000	2357000	2273000	2262000	2422000	3229000	3405000	2733000	2237000
8	2216000	2235000	2359000	2490000	2359000	2266000	2249000	2431000	3253000	3388000	2710000	2236000
9	2218000	2237000	2361000	2491000	2363000	2257000	2237000	2454000	3277000	3369000	2687000	2235000
10	2219000	2238000	2363000	2482000	2367000	2248000	2228000	2477000	3298000	3348000	2663000	2236000
11	2219000	2238000	2367000	2471000	2370000	2239000	2222000	2499000	3316000	3327000	2639000	2238000
12	2218000	2238000	2371000	2461000	2373000	2229000	2219000	2523000	3337000	3304000	2615000	2238000
13	2218000	2239000	2378000	2452000	2375000	2219000	2227000	2545000	3361000	3281000	2590000	2238000
14	2217000	2240000	2383000	2452000	2372000	2209000	2251000	2566000	3373000	3259000	2565000	2237000
15	2216000	2240000	2389000	2453000	2371000	2200000	2267000	2588000	3389000	3239000	2539000	2236000
16	2216000	2239000	2396000	2454000	2368000	2190000	2276000	2611000	3401000	3216000	2514000	2234000
17	2215000	2240000	2405000	2443000	2362000	2180000	2283000	2637000	3411000	3195000	2488000	2234000
18	2214000	2241000	2420000	2431000	2361000	2179000	2291000	2666000	3420000	3174000	2461000	2232000
19	2213000	2242000	2432000	2418000	2358000	2182000	2301000	2697000	3428000	3152000	2436000	2231000
20	2213000	2243000	2440000	2406000	2355000	2181000	2312000	2728000	3435000	3131000	2409000	2230000
21	2212000	2244000	2447000	2406000	2344000	2182000	2324000	2760000	3440000	3111000	2385000	2230000
22	2211000	2245000	2452000	2406000	2334000	2185000	2342000	2794000	3441000	3089000	2366000	2229000
23	2210000	2245000	2456000	2405000	2324000	2196000	2354000	2830000	3441000	3067000	2346000	2228000
24	2209000	2247000	2460000	2393000	2316000	2205000	2360000	2861000	3440000	3046000	2326000	2228000
25	2208000	2259000	2463000	2386000	2312000	2212000	2361000	2892000	3438000	3024000	2307000	2227000
26	2208000	2293000	2466000	2381000	2312000	2218000	2359000	2922000	3436000	3002000	2290000	2226000
27	2210000	2309000	2469000	2381000	2307000	2225000	2356000	2951000	3438000	2979000	2274000	2225000
28	2217000	2317000	2470000	2381000	2300000	2239000	2360000	2980000	3442000	2957000	2259000	2224000
29	2224000	2323000	2472000	2380000	2292000	2250000	2360000	3008000	3446000	2935000	2252000	2223000
30	2226000	2328000	2474000	2379000	---	2258000	2358000	3034000	3442000	2912000	2246000	2224000
31	2227000	---	2476000	2365000	---	2265000	---	3062000	---	2890000	2239000	---
MAX	2227000	2328000	2476000	2491000	2375000	2287000	2361000	3062000	3446000	3438000	2867000	2238000
MIN	2208000	2228000	2333000	2365000	2292000	2179000	2219000	2358000	3086000	2890000	2239000	2223000
†	1519.13	1526.85	1537.72	1529.56	1524.11	1522.08	1529.08	1577.13	1598.64	1566.35	1520.07	1518.94
‡	5000	101000	148000	-111000	-73000	-27000	93000	704000	380000	-552000	-651000	-15000

CAL YR 1999 ‡ 66000
WTR YR 2000 ‡ 2000

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

CLEARWATER RIVER BASIN

13341050 CLEARWATER RIVER NEAR PECK, ID

LOCATION.--Lat 46°30'00", long 116°23'30", in NE¼NE¼ sec.1, T.36 N., R.1 W., Nez Perce County, Hydrologic Unit 17060306, on left bank 2 mi upstream from Big Canyon Creek, 2.2 mi northeast of Peck, 3 mi downstream from North Fork Clearwater River, and at mile 37.4.

DRAINAGE AREA.--8,040 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 930 ft above sea level, from topographic map.

REMARKS.--Records good. Station equipment includes satellite telemetry. Flow regulated by Dworshak Reservoir (station 13340950) 5.1 mi upstream beginning September 1971.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1965-71), 107,000 ft^3/s May 13, 1971, maximum gage height, 25.00 ft, Dec. 28, 1967, result of ice jam; minimum, 1,630 ft^3/s Nov. 30. 1969, gage height, 2.70 ft. Maximum discharge since regulation (1972-2000), 127,000 ft^3/s June 16, 1974, gage height, 23.66 ft; minimum, 1,260 ft^3/s Oct. 31, 1971, gage height, 2.24 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 8, 1964, reached a stage of 23.95 ft, from floodmark, discharge, 118,000 ft^3/s, from rating extended above 89,100 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 45,700 ft^3/s Apr. 22; minimum daily, 2,660 ft^3/s Oct. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2830	3600	5710	4370	11200	17000	13000	36600	25800	14000	14800	3130
2	2780	3440	e6000	5000	12400	16700	13100	40600	23100	13700	14800	3290
3	2720	3390	e5500	4680	9780	13600	18900	41600	23500	13500	14800	3530
4	2690	3120	e5200	4460	6800	13900	21900	43400	24600	13300	14700	3440
5	2690	3610	e4800	4430	6450	14600	29100	39800	25500	12900	14600	3400
6	2680	3660	4200	4600	6320	18200	31400	38300	26600	12500	14700	4470
7	2660	4080	4710	5180	6280	19400	29300	35400	26300	13100	14700	3950
8	2670	4090	4730	5160	6320	19300	28200	33000	26700	16400	14900	3550
9	2870	3780	4580	5280	6740	19000	27800	26500	24600	17800	14900	3440
10	3570	3650	4410	9320	7500	18700	29100	28800	21900	17900	14900	3780
11	3320	3520	4470	10400	7510	18500	31100	26400	20700	17700	15000	4270
12	3050	3430	4550	10300	7330	18200	33000	23000	18900	17700	15200	4850
13	2930	3380	4940	9360	7260	17700	37500	21600	24600	17600	15500	4350
14	2860	3340	5170	5340	11800	17800	43200	20500	25600	17200	15500	3870
15	2850	3290	5040	5250	15800	18000	41100	20500	26100	16300	15500	3610
16	2820	3250	5460	5440	14700	17500	39000	22000	25900	16400	15600	3450
17	2780	3250	7560	11300	13700	17500	37600	24400	22100	16300	15700	3370
18	2760	3440	8590	11400	10700	12600	37700	27000	20600	16000	15700	3400
19	2750	3490	9730	11600	10000	13000	40700	29000	19900	15700	15700	3310
20	2760	3350	8120	11600	9550	13800	43000	29200	19800	15600	15700	3260
21	2730	3440	6960	5730	13300	11500	42900	31000	18500	15500	14700	3350
22	2730	3510	6290	5470	13600	10600	45700	35100	19700	15400	12300	3380
23	2690	3320	5730	5410	13800	12900	45100	37600	19400	15300	12400	3220
24	2680	3190	5190	11100	14100	13800	40800	33700	18500	15200	12400	3090
25	2660	3890	4700	9020	11500	12700	37500	31200	17600	15100	12400	3030
26	2710	12600	4550	7740	11300	12300	36000	30800	17100	15200	11100	3020
27	2970	14100	4460	5690	11700	12500	34700	28700	14000	15200	10100	3010
28	3470	8530	4360	5560	18600	15200	38100	31900	12600	15100	9990	2970
29	5170	6560	4240	5330	19200	15900	39000	32900	11500	15100	6110	2940
30	4970	5780	4250	4980	---	14500	36300	29300	14200	15400	5570	3000
31	3890	---	4010	10700	---	13500	---	28200	---	15200	5550	---
TOTAL	93710	135080	168210	221200	315240	480400	1021800	958000	635900	479300	415520	104730
MEAN	3023	4503	5426	7135	10870	15500	34060	30900	21200	15460	13400	3491
MAX	5170	14100	9730	11600	19200	19400	45700	43400	26700	17900	15700	4850
MIN	2660	3120	4010	4370	6280	10600	13000	20500	11500	12500	5550	2940
AC-FT	185900	267900	333600	438800	625300	952900	2027000	1900000	1261000	950700	824200	207700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1971, BY WATER YEAR (WY) (UNREGULATED)

MEAN	4796	6642	7898	10520	12710	12550	26050	49610	40830	10530	3812	3799
MAX	8818	12510	18720	16090	21110	17630	41330	72930	54520	15670	5024	7201
(WY)	1969	1969	1965	1969	1971	1968	1965	1971	1971	1971	1965	1968
MIN	2887	3365	4174	4770	3779	10220	14200	36430	21890	6351	2704	2219
(WY)	1967	1970	1966	1966	1966	1967	1970	1968	1966	1966	1966	1966

SUMMARY STATISTICS	[a] WATER YEARS 1965 - 1971	
ANNUAL MEAN	15800	
HIGHEST ANNUAL MEAN	19980	1971
LOWEST ANNUAL MEAN		1966
HIGHEST DAILY MEAN	103000	May 13 1971
LOWEST DAILY MEAN	1860	Sep 29 1967
ANNUAL SEVEN-DAY MINIMUM	1920	Sep 24 1967
ANNUAL RUNOFF (AC-FT)	11440000	
10 PERCENT EXCEEDS	42500	
50 PERCENT EXCEEDS	8540	
90 PERCENT EXCEEDS	3140	

13341050 CLEARWATER RIVER NEAR PECK, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2000, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4243	7040	9358	9618	10780	15640	21420	35520	31920	13750	7560	7201
MAX	8253	20750	26370	22670	32460	33820	37740	64110	70340	27610	18900	11550
(WY)	1976	1996	1976	1974	1996	1986	1997	1972	1974	1997	1997	1989
MIN	1680	2134	2214	2971	3295	4717	7476	19490	8646	4892	2996	2588
(WY)	1972	1972	1972	1987	1973	1973	1973	1977	1987	1987	1994	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		[b] WATER YEARS 1972 - 2000	
ANNUAL TOTAL	6022810		5029090			
ANNUAL MEAN	16500		13740		14510	
HIGHEST ANNUAL MEAN					23480	1996
LOWEST ANNUAL MEAN					7676	1973
HIGHEST DAILY MEAN	60200	May 26	45700	Apr 22	119000	Jun 16 1974
LOWEST DAILY MEAN	2660	Oct 7	2660	Oct 7	1330	Oct 31 1971
ANNUAL SEVEN-DAY MINIMUM	2700	Oct 2	2700	Oct 2	1460	Oct 7 1971
ANNUAL RUNOFF (AC-FT)	11950000		9975000		10510000	
10 PERCENT EXCEEDS	33000		30900		33500	
50 PERCENT EXCEEDS	14600		12400		9950	
90 PERCENT EXCEEDS	2960		3240		3420	

a Unregulated
b Regulated
e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to 1984, October 1985 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1964 to September 1984, October 1985 to current year.

INSTRUMENTATION.--Temperature recorder since October 1964.

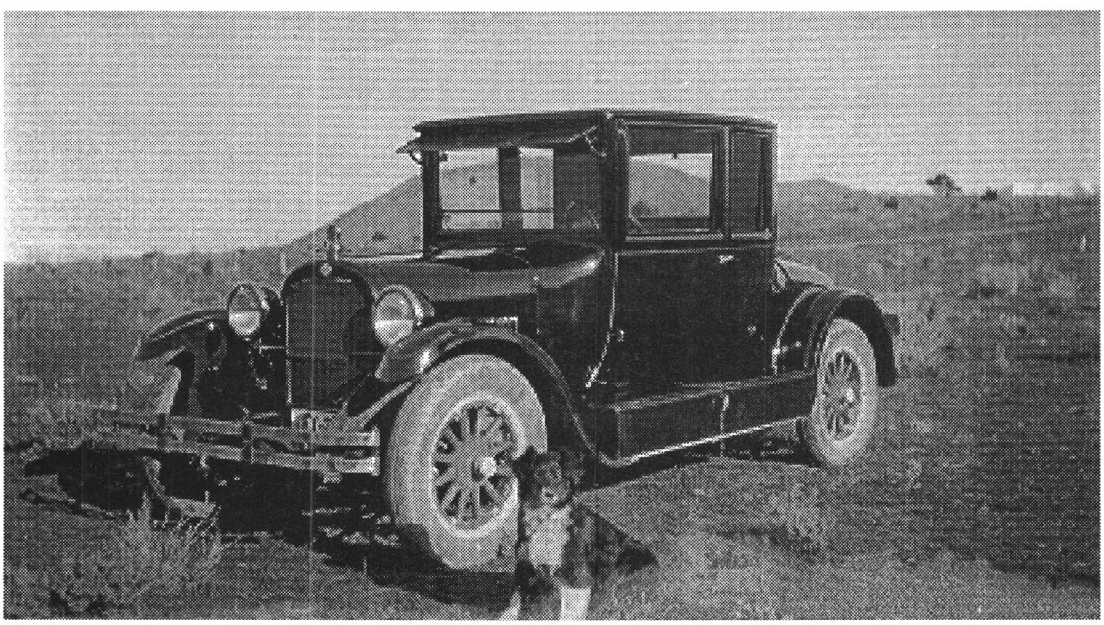
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 25.0 °C Aug. 1-2, 1965; minimum, 0.0 °C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 17.5 °C June 28-29; minimum, 2.5 °C Jan. 1-6, 30.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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

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



USGS field vehicle from Field Office at Idaho Falls, Idaho (April 30, 1925)

CLEARWATER RIVER BASIN

13342450 LAPWAI CREEK NEAR LAPWAI, ID

LOCATION.--Lat 46°25'36", long 116°48'15", in NW¼NE¼NW¼ sec.35, T.36 N., R.4 W., Nez Perce County, Hydrologic Unit 17050306, on right bank, 30 ft upstream from county road bridge, 0.7 mi downstream from Tom Beall Creek, 1.6 mi north of Lapwai, 1.6 mi south of Spalding, and at mile 1.9.

DRAINAGE AREA.--235 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 864.64 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 1,500 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,010 ft^3/s Feb. 9, 1996, gage height, 9.70 ft, from rating curve extended above 1,500 ft^3/s; maximum gage height, 10.22 ft, Feb. 23, 1986; minimum, 0.71 ft^3/s Dec. 21, 1990, gage height, 2.39 ft, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 4,380 ft^3/s January 1965, on basis of slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 23	1015	*410	*4.12	No peaks greater than base discharge.			

Minimum discharge, 2.4 ft^3/s Aug. 9, gage height, 2.03 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	14	32	31	36	242	183	54	81	8.6	3.5	5.1
2	6.8	14	33	30	60	211	186	48	55	8.6	3.4	6.2
3	7.1	14	30	29	89	196	196	57	31	9.0	3.5	6.7
4	7.3	14	27	31	85	209	204	104	26	9.5	3.4	6.9
5	7.2	17	26	31	76	227	205	112	23	9.3	3.3	7.7
6	7.2	17	27	29	72	199	178	95	20	10	3.4	8.4
7	7.5	18	26	29	79	176	158	86	19	10	3.2	8.0
8	7.5	18	25	29	88	157	142	72	19	9.4	3.0	7.8
9	9.4	18	24	30	115	144	131	65	28	8.8	3.0	7.7
10	9.6	18	24	30	123	123	116	89	30	7.6	3.1	9.0
11	9.5	18	25	30	112	119	101	90	49	7.2	3.2	11
12	9.3	18	26	29	98	108	92	112	45	6.5	2.9	10
13	9.4	18	29	29	94	98	103	113	63	6.2	3.1	9.3
14	9.2	18	29	29	111	113	132	101	38	6.1	3.3	8.8
15	9.5	18	35	31	238	112	102	129	27	6.1	3.4	8.4
16	9.6	18	59	31	206	106	111	107	23	5.9	3.2	8.1
17	9.9	19	93	33	167	97	109	74	20	6.0	3.0	7.9
18	10	19	99	33	136	91	93	59	19	5.3	3.1	7.6
19	10	19	89	33	112	142	84	51	17	4.4	3.3	7.2
20	10	19	73	34	93	136	76	54	16	4.7	3.3	7.4
21	10	19	64	33	90	129	78	53	15	4.4	3.6	8.4
22	9.9	19	54	32	144	125	105	36	15	4.4	3.4	8.3
23	10	19	48	32	183	305	111	32	14	5.0	3.5	8.5
24	9.8	19	43	32	173	257	97	30	13	4.6	3.5	8.6
25	10	32	40	36	145	237	88	28	12	4.4	3.8	8.5
26	12	68	37	39	135	218	90	27	11	4.2	4.0	8.3
27	15	50	35	37	163	221	79	26	10	4.3	4.0	8.1
28	15	38	33	36	303	329	77	33	9.3	4.3	4.3	7.8
29	15	33	32	33	265	256	76	33	8.6	4.0	4.4	7.7
30	14	31	30	32	---	218	65	25	8.5	3.4	4.6	9.4
31	14	---	30	37	---	200	---	47	---	3.8	4.6	---
TOTAL	307.4	674	1277	990	3791	5501	3568	2042	765.4	196.0	108.3	242.8
MEAN	9.92	22.5	41.2	31.9	131	177	119	65.9	25.5	6.32	3.49	8.09
MAX	15	68	99	39	303	329	205	129	81	10	4.6	11
MIN	6.7	14	24	29	36	91	65	25	8.5	3.4	2.9	5.1
AC-FT	610	1340	2530	1960	7520	10910	7080	4050	1520	389	215	482
CFSM	.04	.10	.18	.14	.56	.76	.51	.28	.11	.03	.01	.03
IN.	.05	.11	.20	.16	.60	.87	.56	.32	.12	.03	.02	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2000, BY WATER YEAR (WY)

MEAN	15.2	26.5	57.7	79.3	136	196	221	139	50.2	15.1	7.38	9.80
MAX	34.5	74.1	357	333	675	487	546	368	140	42.7	16.3	18.2
(WY)	1976	1999	1976	1997	1996	1997	1976	1979	1984	1982	1976	1984
MIN	4.14	8.68	12.6	14.9	15.0	18.9	26.7	8.98	3.00	2.96	1.68	3.05
(WY)	1995	1994	1993	1993	1977	1977	1992	1992	1992	1994	1994	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1975 - 2000	
ANNUAL TOTAL	34211.6		19462.9			
ANNUAL MEAN	93.7		53.2		79.0	
HIGHEST ANNUAL MEAN					193	1996
LOWEST ANNUAL MEAN					15.7	1992
HIGHEST DAILY MEAN	698	Mar 26	329	Mar 28	3600	Feb 9 1996
LOWEST DAILY MEAN	4.3	Aug 6	2.9	Aug 12	.93	Aug 15 1992
ANNUAL SEVEN-DAY MINIMUM	4.8	Aug 1	3.1	Aug 7	1.1	Aug 11 1992
ANNUAL RUNOFF (AC-FT)	67860		38600		57250	
ANNUAL RUNOFF (CFSM)	.40		.23		.34	
ANNUAL RUNOFF (INCHES)	5.42		3.08		4.57	
10 PERCENT EXCEEDS	298		142		213	
50 PERCENT EXCEEDS	31		29		26	
90 PERCENT EXCEEDS	6.0		4.4		6.1	

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-82, 1991, 1993, 1995, April to September 1997, April to September 1998, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April to September 1998, April to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 29.1 °C July 27, 1998.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 27.7 °C Aug. 1.

REMARKS.--Missing data due to equipment malfunction.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
11...	0850	98	134	8.1	18.5	8.7	21	11.5	102	300	K44
MAY											
01...	1640	48	176	8.5	25.5	19.1	22	10.2	113	80	47
JUN											
13...	1415	59	159	8.5	22.5	19.1	17	9.5	104	360	180
JUL											
25...	1525	3.5	308	9.0	33.0	24.8	1.4	--	--	120	140
AUG											
21...	1820	3.1	306	8.8	27.5	21.2	1.5	7.1	82	77	250
SEP											
11...	1520	11	301	8.4	24.5	19.4	2.0	8.0	89	280	400

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
11...	120	29.9	10.8	16.8	23	4.9	160	4

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
11...	138	6.9	5.3	.3	38.1	200	.27	6.04

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR							
11...	1.01	.004	.47	.131	.048	16	4.2
MAY							
01...	.944	.011	.43	.103	.057	64	8.3
JUN							
13...	.554	.010	.56	.171	.066	60	9.6
JUL							
25...	.943	.011	.76	.131	.090	13	.13
AUG							
21...	.705	.013	.33	.091	.059	24	.20
SEP							
11...	.805	.006	.42	.134	.101	14	.42

K Results based on counts outside ideal colony range.

CLEARWATER RIVER BASIN

13342450 LAPWAI CREEK NEAR LAPWAI, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, APRIL TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	18.9	10.5	14.6
2	---	---	---	17.9	13.0	15.0
3	---	---	---	15.0	12.4	13.4
4	---	---	---	14.4	10.5	12.2
5	---	---	---	13.6	9.6	11.6
6	---	---	---	15.2	7.7	11.2
7	---	---	---	15.3	8.3	11.7
8	---	---	---	16.1	9.1	12.4
9	---	---	---	14.1	11.3	12.6
10	---	---	---	11.9	8.7	10.3
11	---	---	---	11.4	8.0	9.7
12	15.3	9.4	12.3	14.6	8.5	11.1
13	13.8	10.8	12.3	15.3	8.3	11.8
14	13.5	9.6	11.2	16.3	10.8	13.5
15	11.6	9.0	10.3	17.4	10.4	13.9
16	11.9	8.5	10.1	18.4	11.1	14.7
17	15.7	8.0	11.6	19.0	13.0	15.9
18	17.4	9.6	13.3	19.5	11.4	15.3
19	17.1	10.5	13.7	18.9	12.5	15.5
20	17.1	9.9	13.4	19.7	12.5	16.0
21	18.5	11.0	14.7	20.3	14.2	17.1
22	16.1	11.3	13.5	22.1	15.0	18.2
23	13.6	8.0	10.7	20.6	14.9	17.4
24	13.9	7.6	10.6	21.3	13.8	17.2
25	11.0	8.3	9.7	19.2	13.0	16.2
26	14.6	7.3	10.7	19.2	13.9	16.1
27	17.3	9.0	13.1	18.1	14.2	16.1
28	15.5	10.7	13.1	20.5	13.0	16.3
29	15.8	8.2	11.8	19.2	11.9	15.4
30	17.6	8.7	12.9	16.5	11.4	14.0
31	---	---	---	14.2	11.0	12.4
MONTH	---	---	---	22.1	7.7	14.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.3	9.1	13.0	23.3	16.0	19.2	27.7	18.2	22.5	17.9	15.2	16.2
2	18.4	12.1	15.2	23.5	14.6	18.5	27.0	16.5	21.3	16.6	14.1	15.0
3	21.5	12.5	16.6	17.9	14.9	16.1	25.0	16.3	20.7	18.1	11.3	14.4
4	22.8	13.3	17.7	21.0	12.9	16.3	26.4	17.4	21.3	18.1	12.7	15.2
5	21.6	15.2	18.1	18.4	13.8	16.4	26.4	15.7	20.6	15.3	13.9	14.5
6	21.8	14.7	18.2	20.5	15.0	17.2	26.4	16.1	20.9	19.3	12.5	15.4
7	23.5	14.2	18.5	24.4	14.7	19.0	26.3	16.0	20.7	20.0	12.7	16.2
8	19.5	15.3	16.4	20.0	15.8	17.8	26.4	15.2	20.3	16.6	14.1	15.1
9	18.7	13.9	15.9	24.5	15.7	19.3	26.8	15.7	20.6	18.2	12.2	14.7
10	15.8	12.5	13.8	24.7	14.4	19.1	25.6	16.8	20.8	15.0	13.6	14.2
11	15.7	10.2	12.9	25.6	15.0	19.8	25.4	16.9	20.4	19.8	14.1	16.3
12	15.0	13.0	13.8	26.8	16.1	20.7	23.3	13.6	18.2	20.8	13.8	17.0
13	19.8	12.9	16.0	26.8	16.6	21.0	23.8	13.9	18.4	21.6	14.9	17.9
14	19.0	14.1	16.7	25.9	16.0	20.3	23.7	13.3	18.0	22.0	15.5	18.5
15	20.2	14.9	17.3	25.0	15.5	19.5	23.1	13.5	18.0	21.5	16.1	18.7
16	22.0	12.5	16.8	25.0	13.6	18.7	23.1	12.9	17.7	20.0	15.5	17.8
17	22.5	13.5	17.6	24.9	15.0	19.4	23.0	12.7	17.5	21.1	15.0	17.8
18	20.5	14.2	17.4	---	---	---	22.6	13.9	17.8	19.8	15.0	17.5
19	21.0	14.6	17.3	---	---	---	21.5	14.9	17.8	21.0	16.3	18.5
20	23.0	13.6	18.0	---	---	---	22.3	13.0	17.1	16.3	12.5	14.6
21	24.2	14.7	19.1	---	---	---	22.0	12.4	16.8	15.5	13.2	14.4
22	23.8	15.7	19.6	---	---	---	22.3	12.4	17.0	15.0	11.0	12.6
23	23.0	14.7	18.6	---	---	---	22.8	13.5	17.9	13.9	7.7	10.7
24	20.8	14.4	17.6	---	---	---	24.7	16.5	20.0	14.4	7.7	10.8
25	24.2	14.1	18.6	---	---	---	24.5	16.1	19.9	14.9	8.7	11.5
26	24.5	14.6	19.2	25.6	15.8	20.3	23.0	15.0	18.7	15.3	8.7	11.8
27	25.2	15.3	19.9	25.4	15.7	20.2	20.8	13.3	16.8	16.0	9.3	12.5
28	25.7	15.8	20.4	26.4	15.7	20.6	21.1	12.1	16.2	15.8	10.2	12.9
29	24.9	16.3	20.3	27.5	16.9	21.8	21.1	11.9	16.3	14.6	11.1	12.9
30	25.0	15.8	20.0	27.1	17.4	22.0	22.6	14.9	18.1	14.4	13.3	13.7
31	---	---	---	27.3	18.7	22.5	21.3	13.6	17.3	---	---	---
MONTH	25.7	9.1	17.4	---	---	---	27.7	11.9	18.9	22.0	7.7	15.0

CLEARWATER RIVER BASIN

13342450 LAPWAI CREEK NEAR LAPWAI, ID--Continued

COLLECTION METHODS.--Electrofishing; backpack (11A).

LENGTH OF REACH.--150 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.33 hours.

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

BIOLOGICAL DATA, SEPTEMBER 2000
FISH COLLECTION DATA

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Sep 16								
Catostomidae (Suckers)									
Catostomus columbianus (Bridgelip sucker)		27	7.8	55-135	2-41	NATIVE	HERBIVORE	COLD	27-AA
Catostomus macrocheilus (Largescale sucker)		8	2.3	47-68	2-4	NATIVE	OMNIVORE	COLD	8-AA
Cottidae (Sculpins)									
Cottus beldingi (Paiute sculpin)		151	43.5	27-92	1-18	NATIVE	INVERTIVORE	COLD	151-AA
Cyprinidae (Carps and minnows)									
Acrocheilus alutaceus (Chislemouth)		18	5.2	42-110	1-16	NATIVE	HERBIVORE	COLD	18-AA
Ptychocheilus oregonensis (Northern pikeminnow)		18	5.2	49-138	1-28	NATIVE	INVERTIVORE	COOL	18-AA
Rhinichthys osculus (Speckled dace)		74	21.3	45-92	1-14	NATIVE	INVERTIVORE	COLD	74-AA
Richardsonius balteatus (Redside shiner)		37	10.7	46-112	1-21	NATIVE	INVERTIVORE	COLD	37-AA
Salmonidae (Trouts)									
Oncorhynchus mykiss sp. (Rainbow trout)		14	4.0	142-199	27-104	NATIVE	INVERTIVORE	COLD	14-AA

TOTAL NUMBER OF TAXA 8
TOTAL INDIVIDUALS 347

CLEARWATER RIVER BASIN

13342500 CLEARWATER RIVER AT SPALDING, ID

LOCATION.--Lat 46°26'55", long 116°49'35", in Indian allotment 198, NW¼NE¼SW¼ sec.22, T.36 N., R.4 W., Nez Perce County, Hydrologic Unit 17060306, Nez Perce Indian Reservation, on left bank 0.4 mi downstream from Lapwai Creek, 0.6 mi west of Spalding Post Office, 0.9 mi upstream from U.S. Highway 95 bridge, and at mile 11.6.

DRAINAGE AREA.--9,570 mi^2. Mean elevation, 4,360 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1910 to October 1913, October 1924 to January 1925, April 1925 to current year. Published as "near Lewiston", 1910-13, 1924-27. Records published for both sites March 1926 to September 1927.

REVISED RECORDS.--WSP 1737: 1927, 1935, 1943.

GAGE.--Water-stage recorder. Datum of gage is 770.49 ft above sea level. See WDR for Idaho, 1966-68, for history of changes prior to Oct. 1, 1962.

REMARKS.--Records good except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 1,630 acres (1966 determination). Regulation of the North Fork Clearwater River at Ahsahka began on Sept. 27, 1971, when diversion tunnel at Dworshak Dam was closed.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1911-71), 177,000 ft^3/s May 29, 1948, gage height, 23.76 ft; maximum gage height, 27.77 ft, Feb. 5, 1963, from floodmark (ice jam); minimum daily, 500 ft^3/s Jan. 9, 1937, Dec. 1, 1952. Maximum discharge since regulation (1972-2000), 131,000 ft^3/s June 16, 1974, gage height, 19.10 ft; minimum, 1,350 ft^3/s Oct. 31, 1971, gage height, 2.47 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1894 reached a stage of 20.8 ft, site and datum in use 1924-26, discharge, 136,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 46,000 ft^3/s Apr. 22; minimum daily, 2,780 ft^3/s Oct. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2900	3760	5650	4340	11400	19600	14000	35800	26300	14100	14500	3870
2	2890	3620	5680	4990	16200	19000	14000	39500	23200	13800	14500	3050
3	2860	3580	5660	4850	14900	16400	e19500	41400	23100	13600	14400	3470
4	2830	3250	5330	4600	10200	16300	e22500	43100	24100	13400	14400	3410
5	2810	3540	4700	4550	8430	17000	e30000	40300	24900	13000	14300	3330
6	2810	3800	4200	4530	7980	19500	e32000	38200	26000	12600	14300	4110
7	2780	4000	4530	5260	8000	21100	e30000	35200	25900	12900	14400	4080
8	2790	4290	4750	5260	8180	20700	e29000	33200	26100	15500	14500	3570
9	2900	4000	4630	5350	9090	20300	e28000	26500	24600	17700	14600	3450
10	3490	3780	4430	8030	9640	19800	e29500	28300	22200	17700	14500	3650
11	3560	3660	4430	10400	9310	19700	e31500	26700	20800	17600	14600	4040
12	3260	3530	4580	10200	8720	19600	e33500	23700	19200	17500	14700	4840
13	3100	3480	5490	9410	8540	18800	e38000	22100	23200	17400	15100	4500
14	2990	3450	5710	6790	12800	18800	e44000	20800	e26000	17100	15100	3990
15	2970	3430	5530	5600	20800	19400	e41500	20700	e26500	16300	15000	3660
16	2950	3380	6510	6040	18400	18700	e39500	21800	e26000	16200	15200	3490
17	2910	3330	8750	10300	16300	19100	e38000	23900	22300	16200	15300	3400
18	2910	3400	11500	12000	13100	15100	e38000	26200	20600	15800	15300	3370
19	2890	3600	12300	12200	11400	15300	e41000	28200	19800	15500	15300	3360
20	2900	3510	9670	12000	10700	15800	e44000	28700	19800	15300	15300	3230
21	2890	3470	8030	7830	13500	13300	e43500	29900	18700	15300	15300	3370
22	2880	3640	7100	5910	15300	11900	e46000	33600	19300	15200	11700	3390
23	2830	3510	6390	5790	17100	15900	e45500	36600	19300	15000	12000	3280
24	2810	3390	5710	9750	17300	16800	e41000	33500	18500	14900	12000	3160
25	2790	3570	5130	9950	14300	14900	37800	30700	17600	14800	12000	3080
26	2840	10800	4780	8790	13200	13900	35900	30000	17100	14800	11200	3060
27	3020	15400	4660	6170	14200	13800	34400	28500	14700	14800	9730	3050
28	3370	9480	4590	6040	21100	16300	36800	30000	13000	14700	9670	3020
29	4730	6920	4330	5740	22800	17700	39200	32700	11700	14700	6970	3000
30	5590	5940	4380	5380	---	16000	36100	29100	13600	15000	5470	3050
31	4250	---	4130	9190	---	14700	---	27700	---	14900	5450	---
TOTAL	97500	138510	183260	227240	382890	535200	1033700	946600	634100	473300	406790	105330
MEAN	3145	4617	5912	7330	13200	17260	34460	30540	21140	15270	13120	3511
MAX	5590	15400	12300	12200	22800	21100	46000	43100	26500	17700	15300	4840
MIN	2780	3250	4130	4340	7980	11900	14000	20700	11700	12600	5450	3000
AC-FT	193400	274700	363500	450700	759500	1062000	2050000	1878000	1258000	938800	806900	208900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1971, BY WATER YEAR (WY) (UNREGULATED)

MEAN	4416	6790	8078	7715	9362	13290	30670	50570	37270	10180	3616	3174
MAX	17160	38940	33250	28480	22100	32100	53370	85900	73630	21800	6180	7210
(WY)	1960	1928	1934	1934	1971	1934	1943	1948	1964	1950	1950	1968
MIN	1893	1783	2126	1577	2068	3868	14880	24830	10760	3682	1935	1870
(WY)	1953	1937	1953	1937	1937	1955	1941	1941	1934	1931	1931	1937

SUMMARY STATISTICS	[a] WATER YEARS 1911 - 1971	
ANNUAL TOTAL	7501840	
ANNUAL MEAN	15430	
HIGHEST ANNUAL MEAN	24250	1928
LOWEST ANNUAL MEAN	8556	1944
HIGHEST DAILY MEAN	166000	May 29 1948
LOWEST DAILY MEAN	500	Jan 9 1937
ANNUAL SEVEN-DAY MINIMUM	921	Nov 26 1952
ANNUAL RUNOFF (AC-FT)	11180000	
10 PERCENT EXCEEDS	42400	
50 PERCENT EXCEEDS	7000	
90 PERCENT EXCEEDS	2500	

CLEARWATER RIVER BASIN

13342500 CLEARWATER RIVER AT SPALDING, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2000, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4249	7154	9846	10490	12470	17590	22800	36250	32290	13830	7510	7188
MAX	8260	21010	27180	27320	38940	35770	41190	63180	73570	27750	19000	11520
(WY)	1976	1996	1976	1974	1996	1986	1997	1972	1974	1997	1997	1986
MIN	1711	2209	2479	3301	3350	4879	7761	19200	8766	4861	2914	2513
(WY)	1972	1972	1972	1987	1973	1977	1973	1977	1987	1987	1994	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		[b] WATER YEARS 1972 - 2000	
ANNUAL TOTAL	6305700		5164420			
ANNUAL MEAN	17280		14110		15130	
HIGHEST ANNUAL MEAN					25020	1996
LOWEST ANNUAL MEAN					7852	1973
HIGHEST DAILY MEAN	56800	May 26	46000	Apr 22	124000	Jun 16 1974
LOWEST DAILY MEAN	2780	Oct 7	2780	Oct 7	1390	Oct 31 1971
ANNUAL SEVEN-DAY MINIMUM	2820	Oct 2	2820	Oct 2	1470	Oct 8 1971
ANNUAL RUNOFF (AC-FT)	12510000		10240000		10960000	
10 PERCENT EXCEEDS	34900		30000		34600	
50 PERCENT EXCEEDS	15900		13200		10400	
90 PERCENT EXCEEDS	3010		3320		3460	

a Unregulated
b Regulated
e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959-60, 1968 to current year.

PERIOD OR DAILY RECORDS.--
WATER TEMPERATURE: Water years 1959 to 1970, 1972 to current year.

INSTRUMENTATION.--Temperature recorder since October 1959.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 28.0 °C Aug. 13, 1963; minimum, 0.0 °C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 19.5 °C June 28-29; minimum, 2.0 °C Jan. 3-4, 6, 30.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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

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

PALOUSE RIVER BASIN

13345000 PALOUSE RIVER NEAR POTLATCH, ID

LOCATION.--Lat 46°54'55", long 116°57'00", in SW¼NE¼NW¼ sec.10, T.41 N., R.5 W., Latah County, Hydrologic Unit 17060108, on left bank 20 ft downstream from bridge on U.S. Highway 95, 1.0 mi downstream from Deep Creek, 2.0 mi west of Potlatch, and at mile 132.2.

DRAINAGE AREA.--317 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1914 to September 1919, December 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,455.11 ft above sea level (levels by Idaho Department of Highways). October 1914 to September 1919, water-stage recorder at site 0.2 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. Low and medium flows regulated at millpond in Potlatch prior to 1974. Small amounts of water diverted for sprinkle irrigation systems above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,600 ft^3/s Feb. 9, 1996, gage height, 22.15 ft; minimum daily, 0.09 ft^3/s Sept. 24, 1973.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 2	1215	*5,080	*15.09	Mar. 23	1430	3,240	12.83
				Apr. 15	0545	3,380	13.02

Minimum daily, 6.4 ft^3/s Aug. 28-30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	21	88	e85	420	1060	664	241	264	45	12	7.6
2	9.3	19	110	e80	4190	944	736	266	173	42	12	12
3	9.5	17	154	e70	2370	923	960	288	141	42	11	16
4	9.5	17	106	e75	1170	1040	1130	309	124	42	11	16
5	9.1	16	82	e85	788	1290	1310	281	113	42	10	14
6	9.7	17	72	e90	661	1260	1160	251	105	41	10	13
7	9.3	23	76	e90	654	1050	909	218	97	41	9.7	13
8	9.8	27	75	e90	770	882	694	197	94	38	9.6	13
9	12	22	66	e95	1090	777	635	194	99	36	9.5	14
10	16	20	64	e85	917	661	681	220	99	33	9.2	25
11	17	18	67	e85	723	744	778	220	118	30	9.1	55
12	15	17	147	e85	599	732	845	354	123	26	9.2	42
13	13	20	628	e80	550	637	932	315	338	24	9.0	26
14	12	20	282	e140	684	719	1900	273	193	25	8.3	19
15	11	20	306	366	1140	796	3170	247	159	24	7.8	15
16	12	19	857	514	860	839	2200	229	139	22	7.5	14
17	12	19	773	548	662	1120	1530	208	125	21	7.3	13
18	12	29	1160	362	512	917	1190	190	115	21	7.5	12
19	11	38	898	287	427	1360	1030	178	108	20	7.4	12
20	12	31	483	255	387	1000	870	168	101	19	7.4	12
21	8.5	36	330	230	429	793	733	152	93	18	7.3	13
22	8.1	37	246	e180	672	696	683	141	86	16	7.3	14
23	9.5	30	194	e160	1360	2610	610	131	80	16	7.4	14
24	11	27	e150	e160	1270	1770	498	121	74	15	7.3	13
25	12	81	e130	166	888	1280	415	114	70	14	7.1	12
26	20	626	e120	170	818	1020	364	108	65	14	6.9	12
27	19	383	e110	157	1030	929	313	108	60	14	6.6	12
28	42	150	e90	e130	1370	1070	316	125	55	13	6.4	12
29	58	103	e90	e110	1230	1040	311	107	51	13	6.4	11
30	39	81	e90	e100	---	865	265	102	48	13	6.4	12
31	27	---	e95	e120	---	723	---	282	---	12	6.6	---
TOTAL	484.6	1984	8139	5250	28641	31547	27832	6338	3510	792	260.2	488.6
MEAN	15.6	66.1	263	169	988	1018	928	204	117	25.5	8.39	16.3
MAX	58	626	1160	548	4190	2610	3170	354	338	45	12	55
MIN	8.1	16	64	70	387	637	265	102	48	12	6.4	7.6
AC-FT	961	3940	16140	10410	56810	62570	55200	12570	6960	1570	516	969
CFSM	.05	.21	.83	.53	3.12	3.21	2.93	.64	.37	.08	.03	.05
IN.	.06	.23	.96	.62	3.36	3.70	3.27	.74	.41	.09	.03	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2000, BY WATER YEAR (WY)

MEAN	18.0	57.2	173	365	623	767	723	373	123	28.4	12.1	11.6
MAX	40.8	185	1057	2166	2546	2182	2065	1715	672	60.9	28.6	23.1
(WY)	1969	1996	1974	1974	1996	1972	1917	1917	1990	1916	1975	1985
MIN	3.80	8.63	20.3	13.6	43.9	74.2	90.4	42.2	23.3	3.89	1.08	2.07
(WY)	1974	1988	1977	1979	1994	1977	1992	1992	1992	1973	1994	1973

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1916 - 2000	
ANNUAL TOTAL	133213.9		115266.4			
ANNUAL MEAN	365		315		272	
HIGHEST ANNUAL MEAN					634	1974
LOWEST ANNUAL MEAN					38.8	1977
HIGHEST DAILY MEAN	4830	Feb 24	4190	Feb 2	13800	Feb 9 1996
LOWEST DAILY MEAN	7.5	Sep 23	6.4	Aug 28	.09	Sep 24 1973
ANNUAL SEVEN-DAY MINIMUM	7.9	Sep 17	6.6	Aug 25	.52	Aug 23 1973
ANNUAL RUNOFF (AC-FT)	264200		228600		197000	
ANNUAL RUNOFF (CFSM)	1.15		.99		.86	
ANNUAL RUNOFF (INCHES)	15.63		13.53		11.66	
10 PERCENT EXCEEDS	939		936		775	
50 PERCENT EXCEEDS	106		94		56	
90 PERCENT EXCEEDS	10		9.8		8.9	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 - 1981, July to September 1989, 1991, water years 1993, 1995, April to September 1997, April to September 1998, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May to September 1998, May to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 29.2 °C July 17, 1998.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE: Maximum, 26.6 °C Aug. 1.

REMARKS.--Missing data due to equipment malfunction.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
05...	1130	1370	32	7.5	11.0	4.5	25	12.6	105	110	K13
MAY											
01...	1000	244	44	7.4	15.5	10.8	6.3	11.0	107	K50	20
JUN											
12...	1440	117	60	7.6	18.5	12.6	4.1	8.2	84	170	92
JUL											
24...	1300	16	70	7.4	31.0	22.9	2.4	--	--	67	51
AUG											
21...	1330	7.4	76	7.5	25.5	18.0	3.2	6.2	71	83	K19
SEP											
11...	1110	58	74	6.7	19.0	12.8	.8	7.2	74	K720	470

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
11...	27	7.42	1.94	3.6	21	1.9	37	0

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
11...	30	1.4	1.4	<.1	15.9	52	.07	8.16

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR							
05...	.046	<.002	.29	.108	.018	73	270
MAY							
01...	.061	.022	.14	.048	.014	12	7.9
JUN							
12...	<.005	<.002	.17	.047	.012	7	2.2
JUL							
24...	<.005	<.002	.29	.057	.021	7	.29
AUG							
21...	<.005	.008	.47	.042	.008	1	.02
SEP							
11...	.014	<.002	.26	.049	.020	9	1.4

K Results based on counts outside ideal colony range.

PALOUSE RIVER BASIN

13345000 PALOUSE RIVER NEAR POTLATCH, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, MAY TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	---	---	---
2	---	---	---	13.0	11.8	12.2
3	---	---	---	11.9	9.6	10.5
4	---	---	---	9.7	8.2	9.0
5	---	---	---	9.7	8.1	8.9
6	---	---	---	10.7	8.1	9.3
7	---	---	---	11.3	8.4	10.0
8	---	---	---	11.5	9.4	10.5
9	---	---	---	12.2	10.4	11.1
10	---	---	---	11.0	9.1	9.8
11	---	---	---	9.6	8.1	8.6
12	---	---	---	9.6	7.1	8.3
13	---	---	---	11.8	8.1	9.7
14	---	---	---	12.2	10.7	11.5
15	---	---	---	14.2	10.5	12.3
16	---	---	---	15.2	12.4	13.9
17	---	---	---	15.8	13.3	14.6
18	---	---	---	16.0	13.2	14.7
19	---	---	---	15.5	13.9	14.7
20	---	---	---	15.5	12.7	14.1
21	---	---	---	16.9	14.4	15.6
22	---	---	---	17.9	15.0	16.4
23	---	---	---	18.7	15.3	16.9
24	---	---	---	19.0	15.3	17.3
25	---	---	---	18.2	15.8	17.1
26	---	---	---	16.9	15.3	16.1
27	---	---	---	15.7	14.2	15.0
28	---	---	---	15.7	13.0	14.3
29	---	---	---	17.1	13.6	15.2
30	---	---	---	16.1	14.1	15.0
31	---	---	---	14.1	11.1	12.2
MONTH	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.2	10.5	12.0	25.0	19.7	21.8	26.6	23.5	25.2	18.7	17.1	17.9
2	15.5	13.0	14.4	24.3	18.4	21.0	26.1	22.5	24.5	17.1	14.9	16.0
3	17.2	13.3	15.2	20.8	17.9	19.0	25.9	22.5	24.4	16.5	13.3	14.8
4	19.2	14.9	17.1	19.8	15.8	17.5	25.7	23.0	24.4	16.3	14.2	15.3
5	19.3	17.2	18.3	19.3	15.2	17.2	25.0	21.8	23.6	15.7	14.1	14.7
6	19.5	16.8	18.1	19.2	16.5	17.5	24.9	22.3	23.8	15.8	13.5	14.6
7	21.0	17.1	18.8	22.5	15.7	18.5	24.5	21.8	23.3	16.8	13.5	15.1
8	19.3	16.3	17.9	22.5	17.1	19.6	24.3	21.5	23.0	16.8	14.2	15.1
9	16.3	14.6	15.3	24.5	17.9	20.6	25.0	22.0	23.4	14.2	11.9	13.0
10	14.6	13.2	13.7	25.2	17.6	21.0	24.7	22.6	23.5	13.8	12.7	12.9
11	13.2	11.8	12.5	25.9	18.0	21.5	23.8	21.5	22.6	14.6	12.2	13.3
12	13.2	11.9	12.5	---	---	---	22.5	19.5	20.9	16.9	13.2	14.8
13	13.9	11.5	12.7	---	---	---	21.5	19.5	20.5	18.9	14.1	16.3
14	14.7	13.0	13.8	---	---	---	21.3	18.9	20.1	19.8	16.3	17.9
15	16.0	13.5	14.7	---	---	---	21.0	19.2	20.0	19.7	17.6	18.7
16	17.7	13.3	15.4	---	---	---	21.0	18.7	19.7	19.3	17.2	18.4
17	18.9	15.2	16.9	---	---	---	21.0	18.9	19.8	19.7	16.9	18.3
18	18.5	16.1	17.3	---	---	---	20.8	19.3	20.2	19.3	17.1	18.1
19	17.4	15.2	16.4	---	---	---	20.5	19.3	19.9	18.9	16.8	17.9
20	19.0	15.0	16.8	---	---	---	19.5	17.2	18.4	18.4	15.2	16.0
21	21.3	16.8	18.6	---	---	---	19.5	17.2	18.3	15.3	13.3	14.1
22	22.5	18.5	20.1	---	---	---	20.2	17.7	18.9	13.3	10.5	11.6
23	22.1	18.4	19.9	---	---	---	21.1	18.5	19.7	12.1	9.3	10.7
24	20.0	18.2	19.1	---	---	---	22.5	20.2	21.1	11.8	8.8	10.4
25	21.8	16.5	18.8	---	---	---	22.1	20.5	21.3	12.4	9.3	10.9
26	23.3	17.6	19.9	25.2	21.1	23.2	21.5	20.2	20.7	12.5	9.7	11.2
27	24.3	18.5	21.0	24.7	21.0	23.0	20.3	17.9	18.8	13.3	10.2	11.8
28	25.2	19.2	21.8	25.6	21.0	23.3	18.5	16.8	17.7	13.3	10.8	12.2
29	25.0	20.0	22.2	26.4	22.1	24.3	18.4	16.6	17.6	13.6	11.6	12.6
30	25.2	19.7	22.1	26.4	22.5	24.6	20.2	17.9	18.8	13.8	13.2	13.5
31	---	---	---	26.4	23.3	25.1	19.5	17.9	18.6	---	---	---
MONTH	25.2	10.5	17.1	---	---	---	26.6	16.6	21.1	19.8	8.8	14.6

13345000 PALOUSE RIVER NEAR POTLATCH, ID--Continued

COLLECTION METHODS.--Electrofishing; backpack (11A).

LENGTH OF REACH.--195 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.43 hours.

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

BIOLOGICAL DATA, SEPTEMBER 2000
FISH COLLECTION DATA

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Sep.16								
Catostomidae (Suckers)									
Catostomus columbianus (Bridgelip sucker)		4	1.8	76-142	7-37	NATIVE	HERBIVORE	COLD	4-AA
Catostomus macrocheilus (Largescale sucker)		2	0.9	58-137	3-35	NATIVE	OMNIVORE	COLD	2-AA
Cottidae (Sculpins)									
Cottus rhotheus (Torrent sculpin)		2	0.9	65-80	5-10	NATIVE	INVERTIVORE	COLD	2-AA
Cyprinidae (Carps and minnows)									
Acrocheilus alutaceus (Chislemouth)		2	0.9	80	5-6	NATIVE	HERBIVORE	COLD	2-AA
Ptychocheilus oregonensis (Northern pikeminnow)		28	12.3	40-190	1-73	NATIVE	INVERTIVORE	COOL	28-BL
Rhinichthys osculus (Speckled dace)		88	38.8	44-71	1-6	NATIVE	INVERTIVORE	COLD	88-BL
Richardsonius balteatus (Redside shiner)		100	44	41-100	1-11	NATIVE	INVERTIVORE	COLD	100-BL
Percidae (Perch)									
Perca flavescens (Yellow perch)		1	0.4	138	32	INTRODUCED	INVERTIVORE	COOL	1-AA

TOTAL NUMBER OF TAXA 8
TOTAL INDIVIDUALS 227

PALOUSE RIVER BASIN

13346800 PARADISE CREEK AT UNIVERSITY OF IDAHO AT MOSCOW, ID

LOCATION.--Lat 46°43'55", long 117°01'24", in NE¼SE¼SE¼ sec.12, T.39 N., R.6 W., Latah County, Hydrologic Unit 17060108, on left bank, 36 ft upstream from county road crossing at northwest end of University of Idaho playing field, 0.6 mi upstream from Idaho-Washington State line, and 7.0 mi upstream from mouth.

DRAINAGE AREA.--17.7 mi^2.

PERIOD OF RECORD.--October 1978 to current year. Prior to October 1979, published as "at Moscow".

REVISED RECORDS.-WDR ID-87-1: 1979-81 (M).

GAGE.--Water-stage recorder. Datum of gage is 2,543.46 ft above sea level (levels by University of Idaho Engineering Dept.).

REMARKS.--No estimated daily discharges. Records fair except for discharges below 0.5 ft^3/s and above 50 ft^3/s, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 970 ft^3/s Feb. 9, 1996, gage height, 11.26 ft; minimum daily, 0.04 ft^3/s Nov. 29, 1987.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 900 ft^3/s Jan. 21, 1972, gage height, 9.87 ft (based on culvert computation).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 2	0345	*306	*8.11	No other peak greater than base discharge.			

Minimum daily, 0.31 ft^3/s Oct. 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.39	.58	3.7	2.8	45	24	11	2.4	4.7	.55	.35	2.3
2	.40	.47	18	2.2	213	20	10	4.7	2.7	.47	.35	1.6
3	.41	.44	4.9	1.9	73	20	9.6	4.3	1.9	.57	.36	.52
4	.50	.44	1.9	8.5	44	20	9.6	3.5	1.6	.58	.35	.40
5	.54	.98	1.3	4.4	40	30	9.1	3.3	1.5	.48	.35	.43
6	.40	3.0	4.6	3.6	51	33	13	2.4	1.1	2.9	.35	1.1
7	.42	.59	3.8	2.9	55	24	10	2.1	1.0	.72	.67	.39
8	2.1	.77	2.7	6.5	49	19	7.9	2.1	8.1	.56	.39	2.5
9	4.9	.67	3.4	8.4	41	17	6.8	4.8	2.1	.56	.37	1.3
10	.60	.49	2.7	5.2	26	15	6.2	2.8	5.4	1.1	.71	35
11	.58	.50	18	4.5	20	20	5.9	7.5	2.1	.81	.43	5.0
12	.48	.64	26	3.4	22	14	5.6	4.1	15	.91	.37	.66
13	.38	.69	19	3.2	23	13	11	2.6	4.2	1.0	.35	.45
14	.40	.48	5.9	15	73	16	17	2.3	2.0	1.1	.84	.40
15	.38	.56	62	19	66	13	13	2.3	1.6	.78	.36	.39
16	.34	.38	61	28	42	37	8.7	2.0	1.5	.69	.34	.39
17	.37	4.0	43	26	27	45	7.2	1.8	1.2	1.1	.44	.38
18	.40	.67	52	13	20	32	6.2	1.7	1.1	.68	.75	.38
19	.42	.80	16	9.3	17	43	5.2	1.7	1.1	.71	.42	.44
20	.40	2.4	9.2	11	16	24	4.6	1.6	.93	.67	1.3	4.6
21	.40	1.5	7.2	8.8	20	20	4.3	1.5	.86	.71	.48	1.5
22	.38	1.3	5.4	6.8	22	23	4.7	1.5	.86	.58	.62	.44
23	.34	.74	4.3	5.3	76	81	3.8	1.4	.85	.50	.66	.39
24	.31	2.0	3.7	5.6	45	33	3.6	1.3	.71	.41	.77	.34
25	.49	49	3.3	14	28	25	4.5	1.2	.67	.36	.69	.40
26	9.1	29	2.9	11	44	21	3.7	1.2	.85	.36	.59	.36
27	6.3	4.5	2.7	8.2	55	19	3.1	10	.71	.35	.50	.93
28	7.9	1.8	2.3	6.6	37	18	3.3	2.4	.93	.35	.49	.35
29	.87	1.4	2.2	5.1	28	15	2.7	1.6	.63	.37	.59	.38
30	.47	3.2	2.1	4.5	---	14	2.5	7.7	.65	.35	.39	6.1
31	1.7	---	1.9	5.3	---	12	---	22	---	.46	.95	---
TOTAL	43.07	113.99	397.1	260.0	1318	760	213.8	111.8	68.55	21.74	16.58	69.82
MEAN	1.39	3.80	12.8	8.39	45.4	24.5	7.13	3.61	2.29	.70	.53	2.33
MAX	9.1	49	62	28	213	81	17	22	15	2.9	1.3	35
MIN	.31	.38	1.3	1.9	16	12	2.5	1.2	.63	.35	.34	.34
AC-FT	85	226	788	516	2610	1510	424	222	136	43	33	138

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2000, BY WATER YEAR (WY)

MEAN	1.12	2.50	5.79	14.4	28.2	20.3	9.30	5.04	2.34	1.07	1.00	.81
MAX	2.82	5.95	23.8	53.0	104	58.8	30.0	14.6	6.89	2.27	4.30	2.33
(WY)	1995	1996	1999	1997	1996	1989	1996	1996	1990	1993	1989	2000
MIN	.18	.24	.60	.37	1.56	2.07	2.06	.63	.73	.34	.34	.21
(WY)	1979	1988	1986	1979	1994	1994	1987	1992	1992	1994	1980	1991

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1979 - 2000	
ANNUAL TOTAL	3865.54		3394.45			
ANNUAL MEAN	10.6		9.27		7.54	
HIGHEST ANNUAL MEAN					16.8	1996
LOWEST ANNUAL MEAN					1.41	1994
HIGHEST DAILY MEAN	255	Feb 24	213	Feb 2	755	Feb 8 1996
LOWEST DAILY MEAN	.26	Sep 18	.31	Oct 24	.04	Nov 29 1987
ANNUAL SEVEN-DAY MINIMUM	.30	Sep 16	.36	Jul 24	.08	Oct 29 1987
ANNUAL RUNOFF (AC-FT)	7670		6730		5460	
10 PERCENT EXCEEDS	24		26		17	
50 PERCENT EXCEEDS	2.3		2.3		1.5	
90 PERCENT EXCEEDS	.39		.39		.28	

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at special study, low-flow and other partial-record sites in Idaho during water year 2000.

Measurements of streamflow at points other than gaging stations are given in the following table.

Station	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Salmon River Basin						
Big Creek near Patterson 13301500	Pahsimeroi River	Lat 44°26'38", long 113°36'25", in $SE^1/_4SE^1/_4NE^1/_4$ sec.21, T.13 N., R.24 E., Lemhi County, Hydrologic Unit 17060202, at private road bridge above diversions, 0.3 mi upstream from old staff gage site, 0.4 mi downstream from confluence of North and South Forks, and 7 mi southeast of Patterson.	54.8	1910-13‡, 1938, 1971-73, 1975-78	10- 4-2000	18.8
Morse Creek above diversions, near May 13301700	Pahsimeroi River	Lat 44°36'55", long 113°48'25", in $SW^1/_4$ sec.24, T.15 N., R.22 E., Custer County, Hydrologic Unit 17060202, 0.6 mi upstream from mouth of canyon, and 5.2 mi east of May.	18.0	1962-71b, 1973-78b, 1981	10- 4-2000	0.0
Lake Creek above Williams Lake, near Salmon 13302180	Salmon River	Lat 45°01'00", long 113°59'38", in $NW^1/_4SW^1/_4$ sec.33, T.20 N., R.21 E., Lemhi County, Hydrologic Unit 17060203, Salmon National Forest, 0.2 mi upstream from Williams Lake, 3.2 mi upstream from mouth, and 12 mi southwest of Salmon.	--	1973, 1975-78, 1981	10- 4-2000	2.94
Texas Creek near Leadore 13303000	Lemhi River	Lat 44°35'10", long 113°19'45", in $NW^1/_4SW^1/_4$ sec.35, T.15 N., R.26 E., Lemhi County, Hydrologic Unit 17060204, 50 ft downstream from Nez Perce Creek, 0.5 mi upstream from county road bridge, and 6.5 mi south of Leadore.	71.4	1938-39‡, 1955-63‡, 1965,1973, 1975-78, 1980-81	10- 2-2000	13.7
Dahlonega Creek at Gibbonsville 13305700	North Fork Salmon River	Lat 45°32'50", long 113°55'40", in $NW^1/_4$ sec.36, T.26 N., R.21 E., Lemhi County, Hydrologic Unit 17060203, Salmon National Forest, at U.S. Highway 93, and 0.2 mi southwest of Gibbonsville.	a32	1962-71b, 1973, 1975-78	10- 2-2000	7.02
North Fork Salmon River at North Fork 13306000	Salmon River	Lat 45°25', long 113°59', in $SW^1/_4$ sec.16, T.24 N., R.21 E., Lemhi County, Hydrologic Unit 17060203, 550 ft upstream from highway bridge, 1,100 ft upstream from mouth, and 0.2 mi northwest of North Fork.	214	1929-40‡, 1980, 1987-89, 1992,1994	10- 2-2000	66.2
Panther Creek below Big Deer Creek, near Blackbird Townsite 13306440	Salmon River	Lat 45°10'38", long 114°18'53", in $SW^1/_4NE^1/_4SW^1/_4$ sec.2, T.21 N., R.18 E.(unsurveyed), Lemhi County, Hydrologic Unit 17060203, Salmon National Forest, just below Big Deer Creek, 7.0 mi northwest of Blackbird Townsite, and 20.2 mi west of Salmon.	--	1971,1973, 1975-78	10- 3-2000	64.8
Salmon River near Shoup 13307000	Snake River	Lat 45°19'20", long 114°26'23", in $NE^1/_4SW^1/_4$ sec.14, T.23 N., R.17 E., Lemhi County, Hydrologic Unit 17060203, Salmon National Forest, 0.6 mi upstream from Owl Creek, 2.3 mi downstream from Panther Creek, 9 mi southwest of Shoup, and at mile 207.8.	6,270	1944-82‡	9-18-2000	859
Owl Creek near Shoup 13307050	Salmon River	Lat 45°19'07", long 114°26'52", in $SE^1/_4NW^1/_4$ sec.14, T.23 N., R.17 E.(unsurveyed), Lemhi County, Hydrologic Unit 17060203, Salmon National Forest, at forest road, and 9.3 mi southwest of Shoup.	--	1973, 1975-78	10- 3-2000	18.4

‡ Continuous record
a Approximately
b Crest-stage gage

ANALYSES OF SAMPLES COLLECTED AT WATER QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Water quality partial-record stations and miscellaneous sites are locations where chemical-quality, biological, or sediment data are collected once only, intermittently, or systematically but at limited frequency over a period of years for use in hydrologic analyses.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)
SPOKANE RIVER BASIN											
12411950 BEAVER CR AB CARPENTER GULCH NR PRICHARD, ID (LAT 47 37 59N LONG 115 58 46W)											
SEP 18...	1055	7.5	83	7.3	22.5	12.1	33	8.26	2.93	1.6	40
12413755 COEUR D'ALENE RIVER BLW LATOUR CREEK NR CATALDO, ID (LAT 47 33 04N LONG 116 22 00W)											
OCT 20...	0930	--	--	--	--	--	48	12.2	4.29	2.5	--
12413815 COEUR D'ALENE RIVER BLW ROSE CREEK NR ROSE LAKE, ID (LAT 47 32 05N LONG 116 29 56W)											
OCT 20...	1030	--	--	--	--	--	49	12.5	4.41	2.4	--
12413825 COEUR D'ALENE RIV AB KILARNEY LK OUTLET NR ROSE LAKE, ID (LAT 47 30 22N LONG 116 33 16W)											
OCT 20...	1110	--	--	--	--	--	45	11.2	4.22	2.4	--
12413858COEUR D'ALENE RIVER BLW BLUE LAKE NR HARRISON, ID (LAT 47 28 49N LONG 116 41 56W)											
OCT 20...	1300	--	--	--	--	--	40	9.75	3.68	2.4	--
12413862COEUR D'ALENE RIVER AT HARRISON BRIDGE NR HARRISON, ID (LAT 47 27 55N LONG 116 45 54W)											
OCT 19...	1520	--	--	--	--	--	44	11.0	4.10	2.5	--
472721116480100 COEUR D'ALENE LAKE BTWN HARRISON AND HARLOW POINT (LAT 47 27 21N LONG 116 48 01W)											
OCT 19...	1440	--	--	--	--	--	38	9.49	3.53	2.2	--
473328115545601 BEAVER CR. AB FERGUSON CR NR DELTA, ID (LAT 47 33 28N LONG 115 54 56W)											
SEP 19...	0910	.22	120	6.9	11.5	12.5	43	12.8	2.68	2.7	22
473349115532201 CARBON CR AB MOUTH NR DELTA, ID (LAT 47 33 49N LONG 115 53 22W)											
SEP 19...	1110	.14	217	7.0	19.5	12.5	82	27.1	3.52	3.8	33
473350115532201 BEAVER CR AB CARBON CR NR DELTA, ID (LAT 47 33 50N LONG 115 53 22W)											
SEP 19...	1120	.24	51	6.8	19.5	14.0	16	4.50	1.23	2.2	12
473356115515201 CARBON CR BL HEADWATERS NR DELTA, ID (LAT 47 33 56N LONG 115 51 52W)											
SEP 19...	0830	.25	71	6.9	10.0	10.0	23	6.14	1.76	2.9	16
473404115554801 BEAVER CR AB NO NAME GULCH NR DELTA, ID (LAT 47 34 04N LONG 115 55 48W)											
SEP 19...	0740	1.8	124	7.3	12.0	11.5	52	14.7	3.77	2.1	53
473505115555601 PONY GULCH CR AB MOUTH NR DELTA, ID (LAT 47 35 05N LONG 115 55 56W)											
SEP 18...	1640	.53	119	7.5	21.5	11.6	50	11.3	5.36	2.4	64

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

DATE	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)
SPOKANE RIVER BASIN										
12411950 BEAVER CR AB CARPENTER GULCH NR PRICHARD, ID (LAT 47 37 59N LONG 115 58 46W)										
SEP 18...	0	33	6.1	.4	--	--	<.9	<3	<1.0	<1.0
12413755 COEUR D'ALENE RIVER BLW LATOUR CREEK NR CATALDO, ID (LAT 47 33 04N LONG 116 22 00W)										
OCT 20...	--	--	26.6	1.0	.1	10.8	--	--	2.8	2.9
12413815 COEUR D'ALENE RIVER BLW ROSE CREEK NR ROSE LAKE, ID (LAT 47 32 05N LONG 116 29 56W)										
OCT 20...	--	--	29.1	.9	.1	10.3	--	--	2.5	2.7
12413825 COEUR D'ALENE RIV AB KILARNEY LK OUTLET NR ROSE LAKE, ID (LAT 47 30 22N LONG 116 33 16W)										
OCT 20...	--	--	25.1	.9	.1	10.2	--	--	2.3	2.4
12413858 COEUR D'ALENE RIVER BLW BLUE LAKE NR HARRISON, ID (LAT 47 28 49N LONG 116 41 56W)										
OCT 20...	--	--	20.0	.9	<.1	9.4	--	--	1.9	2.0
12413862 COEUR D'ALENE RIVER AT HARRISON BRIDGE NR HARRISON, ID (LAT 47 27 55N LONG 116 45 54W)										
OCT 19...	--	--	25.2	1.4	.1	9.6	--	--	2.1	2.2
472721116480100 COEUR D'ALENE LAKE BTWN HARRISON AND HARLOW POINT (LAT 47 27 21N LONG 116 48 01W)										
OCT 19...	--	--	19.2	.8	<.1	8.9	--	--	1.7	1.8
473328115545601 BEAVER CR AB FERGUSON CR NR DELTA, ID (LAT 47 33 28N LONG 115 54 56W)										
SEP 19...	0	18	33.0	.3	--	--	<.9	<3	3.1	3.0
473349115532201 CARBON CR AB MOUTH NR DELTA, ID (LAT 47 33 49N LONG 115 53 22W)										
SEP 19...	0	27	67.5	.3	--	--	<.9	<3	13.3	12.9
473350115532201 BEAVER CR AB CARBON CR NR DELTA, ID (LAT 47 33 50N LONG 115 53 22W)										
SEP 19...	0	10	11.5	E.2	--	--	<.9	<3	2.3	2.2
473356115515201 CARBON CR BL HEADWATERS NR DELTA, ID (LAT 47 33 56N LONG 115 51 52W)										
SEP 19...	0	13	16.4	.3	--	--	<.9	<3	<1.0	<1.0
473404115554801 BEAVER CR AB NO NAME GULCH NR DELTA, ID (LAT 47 34 04N LONG 115 55 48W)										
SEP 19...	0	43	14.5	.5	--	--	<.9	<3	<1.0	<1.0
473505115555601 PONY GULCH CR AB MOUTH NR DELTA, ID (LAT 47 35 05N LONG 115 55 56W)										
SEP 18...	0	52	5.7	.4	--	--	1.0	<3	<1.0	<1.0

E Positive detection but below stated detection limit.

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

DATE	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
SPOKANE RIVER BASIN										
12411950 BEAVER CR AB CARPENTER GULCH NR PRICHARD, ID (LAT 47 37 59N LONG 115 58 46W)										
SEP 18...	<1	<1	<20	<10	<1	<1	--	--	9	9
12413755 COEUR D'ALENE RIVER BLW LATOUR CREEK NR CATALDO, ID (LAT 47 33 04N LONG 116 22 00W)										
OCT 20...	--	--	110	50	1	5	111	118	553	508
12413815 COEUR D'ALENE RIVER BLW ROSE CREEK NR ROSE LAKE, ID (LAT 47 32 05N LONG 116 29 56W)										
OCT 20...	--	--	210	60	3	15	131	137	502	474
12413825 COEUR D'ALENE RIV AB KILARNEY LK OUTLET NR ROSE LAKE, ID (LAT 47 30 22N LONG 116 33 16W)										
OCT 20...	--	--	180	50	4	15	110	118	466	426
12413858 COEUR D'ALENE RIVER BLW BLUE LAKE NR HARRISON, ID (LAT 47 28 49N LONG 116 41 56W)										
OCT 20...	--	--	210	60	7	22	114	112	370	344
12413862 COEUR D'ALENE RIVER AT HARRISON BRIDGE NR HARRISON, ID (LAT 47 27 55N LONG 116 45 54W)										
OCT 19...	--	--	200	70	6	19	128	122	428	398
472721116480100 COEUR D'ALENE LAKE BTWN HARRISON AND HARLOW POINT (LAT 47 27 21N LONG 116 48 01W)										
OCT 19...	--	--	180	60	5	16	108	97	340	322
473328115545601 BEAVER CR. AB FERGUSON CR NR DELTA, ID (LAT 47 33 28N LONG 115 54 56W)										
SEP 19...	<1	<1	<20	<10	<1	1	--	--	600	553
473349115532201 CARBON CR AB MOUTH NR DELTA, ID (LAT 47 33 49N LONG 115 53 22W)										
SEP 19...	<1	<1	<20	<10	5	6	--	--	2850	2530
473350115532201 BEAVER CR AB CARBON CR NR DELTA, ID (LAT 47 33 50N LONG 115 53 22W)										
SEP 19...	<1	<1	<20	<10	2	3	--	--	356	324
473356115515201 CARBON CR BL HEADWATERS NR DELTA, ID (LAT 47 33 56N LONG 115 51 52W)										
SEP 19...	<1	<1	<20	<10	<1	<1	--	--	45	41
473404115554801 BEAVER CR AB NO NAME GULCH NR DELTA, ID (LAT 47 34 04N LONG 115 55 48W)										
SEP 19...	<1	<1	E20	<10	<1	<1	--	--	173	159
473505115555601 PONY GULCH CR AB MOUTH NR DELTA, ID (LAT 47 35 05N LONG 115 55 56W)										
SEP 18...	<1	<1	<20	<10	<1	<1	--	--	4	3

E Positive detection but below stated detection limit.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
SPOKANE RIVER BASIN									
473525115440301 PRICHARD CR AB JO GULCH NR MURRAY, ID (LAT 47 35 25N LONG 115 44 03W)									
SEP 20...	1250	.71	26	7.1	13.0	8.6	7	1.98	.56
473532115475301 GRANITE GULCH CR BL MOONSHINE GULCH NR MURRAY, ID (LAT 47 35 32N LONG 115 47 53W)									
SEP 20...	0920	1.1	40	7.1	7.5	8.0	12	3.45	.77
473541115453201 PRICHARD CR AB MONARCH GULCH NR MURRAY, ID (LAT 47 35 41N LONG 115 45 32W)									
SEP 20...	1140	2.7	26	6.9	11.0	9.0	7	2.01	.48
473551115474201 GRANITE GULCH CR AB MOUTH NR MURRAY, ID (LAT 47 35 51N LONG 115 47 42W)									
SEP 20...	0845	3.0	35	6.6	6.5	8.5	10	3.06	.69
473554115473601 PRICHARD CR AB GRANITE GULCH CR NR DELTA, ID (LAT 47 35 54N LONG 115 47 36W)									
SEP 20...	0820	3.2	38	7.2	6.5	9.3	11	3.20	.81
473555115561701 BEAVER CR BL GLEVELAND GULCH NR DELTA, ID (LAT 47 35 55N LONG 115 56 17W)									
SEP 18...	1540	4.2	92	7.3	22.5	14.0	38	9.88	3.27
473605115475401 BEAR GULCH CR AB MOUTH NR MURRAY, ID (LAT 47 36 05N LONG 115 47 54W)									
SEP 19...	1245	1.0	28	6.1	22.0	13.7	7	1.95	.51
473630115562901 TRAIL CR AB MOUTH NR DELTA, ID (LAT 47 36 30N LONG 115 56 29W)									
SEP 18...	1415	.16	167	8.0	22.0	12.8	76	19.0	6.86
473641115492701 PRICHARD CR BL ID GULCH NR MURRAY, ID (LAT 47 36 41N LONG 115 49 27W)									
SEP 19...	1110	9.6	35	6.9	19.5	12.9	10	2.74	.71
473648115493501 BUTTE GULCH CR NR MUURAY, ID (LAT 47 36 48N LONG 115 49 35W)									
SEP 19...	0942	.44	49	7.1	14.5	12.2	15	4.13	1.05
473655115470201 BEAR GULCH CR NR ROUND TOP MTN NR MURRAY, ID (LAT 47 36 55N LONG 115 47 02W)									
SEP 19...	1455	.91	26	6.8	22.0	13.0	7	1.83	.53
473702115572501 BEAVER CR BL PROSPECT GULCH NR DELTA, ID (LAT 47 37 02N LONG 115 57 25W)									
SEP 18...	1300	3.5	104	7.3	19.0	13.1	44	10.8	4.02
473732115513001 PRICHARD CR AT MURRAY, ID (LAT 47 37 32N LONG 115 51 30W)									
SEP 19...	1555	.16	37	7.2	21.5	13.3	12	3.25	.91

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

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
SPOKANE RIVER BASIN									
473525115440301 PRICHARD CR AB JO GULCH NR MURRAY, ID (LAT 47 35 25N LONG 115 44 03W)									
SEP 20...	1.8	14	0	11	1.6	E.2	<.9	<3	<1.0
473532115475301 GRANITE GULCH CR BL MOONSHINE GULCH NR MURRAY, ID (LAT 47 35 32N LONG 115 47 53W)									
SEP 20...	2.0	15	0	12	5.7	E.2	E.6	<3	<1.0
473541115453201 PRICHARD CR AB MONARCH GULCH NR MURRAY, ID (LAT 47 35 41N LONG 115 45 32W)									
SEP 20...	1.7	13	0	11	2.1	E.2	<.9	<3	<1.0
473551115474201 GRANITE GULCH CR AB MOUTH NR MURRAY, ID (LAT 47 35 51N LONG 115 47 42W)									
SEP 20...	1.9	15	0	12	4.8	E.2	E.7	<3	<1.0
473554115473601 PRICHARD CR AB GRANITE GULCH CR NR DELTA, ID (LAT 47 35 54N LONG 115 47 36W)									
SEP 20...	2.0	15	0	12	4.6	E.2	<.9	<3	1.4
473555115561701 BEAVER CR BL GLEVELAND GULCH NR DELTA, ID (LAT 47 35 55N LONG 115 56 17W)									
SEP 18...	1.8	44	0	37	7.9	.5	<.9	<3	<1.0
473605115475401 BEAR GULCH CR AB MOUTH NR MURRAY, ID (LAT 47 36 05N LONG 115 47 54W)									
SEP 19...	1.9	8	0	6	4.2	E.2	<.9	<3	<1.0
473630115562901 TRAIL CR AB MOUTH NR DELTA, ID (LAT 47 36 30N LONG 115 56 29W)									
SEP 18...	2.2	92	0	75	8.1	.5	<.9	<3	<1.0
473641115492701 PRICHARD CR BL ID GULCH NR MURRAY, ID (LAT 47 36 41N LONG 115 49 27W)									
SEP 19...	1.9	12	0	10	5.1	E.2	<.9	<3	<1.0
473648115493501 BUTTE GULCH CR NR MUURAY, ID (LAT 47 36 48N LONG 115 49 35W)									
SEP 19...	2.5	14	0	12	8.9	E.2	<.9	<3	<1.0
473655115470201 BEAR GULCH CR NR ROUND TOP MTN NR MURRAY, ID (LAT 47 36 55N LONG 115 47 02W)									
SEP 19...	1.9	10	0	9	3.3	E.1	<.9	<3	<1.0
473702115572501 BEAVER CR BL PROSPECT GULCH NR DELTA, ID (LAT 47 37 02N LONG 115 57 25W)									
SEP 18...	1.8	52	0	43	6.9	.5	<.9	<3	<1.0
473732115513001 PRICHARD CR AT MURRAY, ID (LAT 47 37 32N LONG 115 51 30W)									
SEP 19...	2.1	12	0	10	6.1	E.2	1.3	<3	<1.0

E Positive detection but below stated detection limit.

ANALYSES OF SAMPLES COLLECTED AT WATER QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
SPOKANE RIVER BASIN									
473525115440301 PRICHARD CR AB JO GULCH NR MURRAY, ID (LAT 47 35 25N LONG 115 44 03W)									
SEP 20...	<1.0	<1	<1	<20	<10	<1	<1	<1	<1
473532115475301 GRANITE GULCH CR BL MOONSHINE GULCH NR MURRAY, ID (LAT 47 35 32N LONG 115 47 53W)									
SEP 20...	<1.0	<1	<1	<20	<10	<1	<1	6	6
473541115453201 PRICHARD CR AB MONARCH GULCH NR MURRAY, ID (LAT 47 35 41N LONG 115 45 32W)									
SEP 20...	<1.0	<1	<1	<20	<10	<1	<1	60	61
473551115474201 GRANITE GULCH CR AB MOUTH NR MURRAY, ID (LAT 47 35 51N LONG 115 47 42W)									
SEP 20...	<1.0	<1	<1	<20	<10	<1	<1	5	5
473554115473601 PRICHARD CR AB GRANITE GULCH CR NR DELTA, ID (LAT 47 35 54N LONG 115 47 36W)									
SEP 20...	1.3	<1	<1	<20	<10	7	9	281	286
473555115561701 BEAVER CR BL GLEVELAND GULCH NR DELTA, ID (LAT 47 35 55N LONG 115 56 17W)									
SEP 18...	<1.0	<1	<1	<20	<10	<1	<1	23	22
473605115475401 BEAR GULCH CR AB MOUTH NR MURRAY, ID (LAT 47 36 05N LONG 115 47 54W)									
SEP 19...	<1.0	<1	<1	<20	<10	1	2	60	58
473630115562901 TRAIL CR AB MOUTH NR DELTA, ID (LAT 47 36 30N LONG 115 56 29W)									
SEP 18...	<1.0	<1	<1	<20	<10	<1	<1	<1	<1
473641115492701 PRICHARD CR BL ID GULCH NR MURRAY, ID (LAT 47 36 41N LONG 115 49 27W)									
SEP 19...	<1.0	<1	<1	<20	<10	1	2	119	115
473648115493501 BUTTE GULCH CR NR MUURAY, ID (LAT 47 36 48N LONG 115 49 35W)									
SEP 19...	<1.0	<1	<1	<20	<10	<1	<1	<1	<1
473655115470201 BEAR GULCH CR NR ROUND TOP MTN NR MURRAY, ID (LAT 47 36 55N LONG 115 47 02W)									
SEP 19...	<1.0	<1	<1	<20	<10	2	3	64	58
473702115572501 BEAVER CR BL PROSPECT GULCH NR DELTA, ID (LAT 47 37 02N LONG 115 57 25W)									
SEP 18...	<1.0	<1	<1	<20	<10	<1	<1	14	13
473732115513001 PRICHARD CR AT MURRAY, ID (LAT 47 37 32N LONG 115 51 30W)									
SEP 19...	<1.0	<1	<1	<20	<10	<1	<1	50	50

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
SPOKANE RIVER BASIN									
473840115551701 PRICHARD CR ABV EAGLE CR AT EAGLE, ID (LAT 47 38 40N LONG 115 55 17W)									
SEP 18...	1505	13	40	7.0	21.5	11.7	13	3.40	1.08
473841115551601 EAGLE CR ABV MOUTH AT EAGLE, ID (LAT 47 38 41N LONG 115 55 16W)									
SEP 18...	1250	10	43	7.0	17.5	13.0	15	4.04	1.29
473930115530101 EF EAGLE CR ABV FANCY GULCH NR EAGLE, ID (LAT 47 39 30N LONG 115 53 01W)									
SEP 18...	1650	4.1	40	7.0	17.5	13.1	12	3.21	1.09
474011115450401 TRIBUTARY CR BL HEADWATERS NR JACK WAITE FORKS, ID (LAT 47 40 11N LONG 115 45 04W)									
SEP 20...	0925	.12	192	7.7	10.0	7.8	83	17.4	9.50
474017115530601 WF EAGLE CR ABV NOCELLY GULCH NR EAGLE, ID (LAT 47 40 17N LONG 115 53 06W)									
SEP 19...	0745	4.4	35	7.0	7.5	10.5	13	3.44	1.04
474041115484401 EF EAGLE CR BL TOBOGGAN CR NR JACK WAITE FORKS, ID (LAT 47 40 41N LONG 115 48 44W)									
SEP 20...	1310	3.9	50	7.2	10.0	11.1	14	3.36	1.34
474118115463201 TRIBUTARY CR AB MOUTH AT JACK WAITE FORKS, ID (LAT 47 41 18N LONG 115 46 32W)									
SEP 20...	1115	.84	76	7.2	12.0	9.7	29	6.65	2.97

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
473840115551701 PRICHARD CR ABV EAGLE CR AT EAGLE, ID (LAT 47 38 40N LONG 115 55 17W)									
SEP 18...	1.8	16	0	13	5.3	E.2	E.5	<3	<1.0
473841115551601 EAGLE CR ABV MOUTH AT EAGLE, ID (LAT 47 38 41N LONG 115 55 16W)									
SEP 18...	1.5	21	0	17	3.3	E.2	<.9	<3	<1.0
473930115530101 EF EAGLE CR ABV FANCY GULCH NR EAGLE, ID (LAT 47 39 30N LONG 115 53 01W)									
SEP 18...	1.8	12	0	10	7.2	E.2	<.9	<3	<1.0
474011115450401 TRIBUTARY CR BL HEADWATERS NR JACK WAITE FORKS, ID(LAT 47 40 11N LONG 115 45 04W)									
SEP 20...	2.5	57	0	47	43.4	.3	<.9	<3	11.5
474017115530601 WF EAGLE CR ABV NOCELLY GULCH NR EAGLE, ID (LAT 47 40 17N LONG 115 53 06W)									
SEP 19...	1.3	17	0	14	2.5	E.1	<.9	<3	<1.0
474041115484401 EF EAGLE CR BL TOBOGGAN CR NR JACK WAITE FORKS, ID (LAT 47 40 41N LONG 115 48 44W)									
SEP 20...	2.1	15	0	12	8.0	E.2	<.9	<3	<1.0
474118115463201 TRIBUTARY CR AB MOUTH AT JACK WAITE FORKS, ID (LAT 47 41 18N LONG 115 46 32W)									
SEP 20...	1.8	19	0	16	17.3	E.2	<.9	<3	2.1

E Positive detection but below stated detection limit.

ANALYSES OF SAMPLES COLLECTED AT WATER QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
SPOKANE RIVER BASIN									
473840115551701 PRICHARD CR ABV EAGLE CR AT EAGLE, ID (LAT 47 38 40N LONG 115 55 17W)									
SEP 18...	<1.0	<1	<1	E20	<10	<1	<1	33	34
473841115551601 EAGLE CR ABV MOUTH AT EAGLE, ID (LAT 47 38 41N LONG 115 55 16W)									
SEP 18...	<1.0	<1	<1	100	30	<1	<1	19	18
473930115530101 EF EAGLE CR ABV FANCY GULCH NR EAGLE, ID (LAT 47 39 30N LONG 115 53 01W)									
SEP 18...	<1.0	<1	<1	<20	<10	<1	<1	69	67
474011115450401 TRIBUTARY CR BL HEADWATERS NR JACK WAITE FORKS, ID (LAT 47 40 11N LONG 115 45 04W)									
SEP 20...	11.3	3	3	<20	<10	53	62	2570	2250
474017115530601 WF EAGLE CR ABV NOCELLY GULCH NR EAGLE, ID (LAT 47 40 17N LONG 115 53 06W)									
SEP 19...	<1.0	<1	<1	<20	<10	<1	<1	<1	<1
474041115484401 EF EAGLE CR BL TOBOGGAN CR NR JACK WAITE FORKS, ID (LAT 47 40 41N LONG 115 48 44W)									
SEP 20...	<1.0	<1	<1	<20	<10	2	2	68	66
474118115463201 TRIBUTARY CR AB MOUTH AT JACK WAITE FORKS, ID (LAT 47 41 18N LONG 115 46 32W)									
SEP 20...	2.1	1	1	<20	<10	10	12	383	383

E Positive detection but below stated detection limit

12413027 SOUTH FORK COEUR D'ALENE RIVER AT SHOSHONE PARK NEAR MULLAN, ID

BIOLOGICAL DATA, AUGUST 2000
FISH COLLECTION DATA

COLLECTION METHODS.--Electrofishing; backpack (11A).
LENGTH OF REACH.--150 m.
TIME ELAPSED FOR EACH COLLECTION METHOD.--0.30 hours.
ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.
COMMENTS.--*Ascaplus* sp. tailed frogs were collected.

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Aug.22								
Cottidae (Sculpins)									
Cottus confusus (Shorthead sculpin)		109	84.5	35-110	1-15	NATIVE	INVERTIVORE	COLD	109-AA
Salmonidae (Trouts)									
Oncorhynchus clarki sp. (Cutthroat trout)		15	11.6	40-240	1-142	NATIVE	INVERTIVORE	COLD	15-AA
Oncorhynchus mykiss sp. (Rainbow trout)		4	3.1	173-250	55-167	NATIVE	INVERTIVORE	COLD	4-ER
Salvelinus fontinalis (Brook trout)		1	0.8	118	17	INTRODUCED	INVERTIVORE	COLD	1-AA

TOTAL NUMBER OF TAXA 4
TOTAL INDIVIDUALS 129

BIOLOGICAL DATA, AUGUST 2000
FISH COLLECTION DATA

SPOKANE RIVER BASIN

4737051155733 BEAVER CREEK NEAR MOUTH

COLLECTION METHODS.--Electrofishing; backpack (11A).

LENGTH OF REACH.--200 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.48 hours.

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Aug.11								
Cottidae (Sculpins)									
Cottus confusus									
(Shorthead sculpin)		144	53.9	35-100	1-16	NATIVE	INVERTIVORE	COLD	144-AA
Cyprinidae (Carps and minnows)									
Rhinichthys cataractae									
(Longnose dace)		1	0.4	107	14	NATIVE	INVERTIVORE	COLD	1-AA
Salmonidae (Trouts)									
Oncorhynchus clarki sp.									
(Cutthroat trout)		111	41.6	34-220	1-140	NATIVE	INVERTIVORE	COLD	111-AA
Salvelinus fontinalis.									
(Brook trout)		11	4.1	57-162	2-50	INTRODUCED	INVERTIVORE	COLD	11-AA

TOTAL NUMBER OF TAXA 4
TOTAL INDIVIDUALS 267

4737331155130 PRICHARD CREEK NEAR MURRAY

COLLECTION METHODS.--Electorfishing; backpack (11A).

LENGTH OF REACH.--150 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.3 hours.

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Aug.7								
Salmonidae (Trouts)									
Oncorhynchus clarki sp.									
(Cutthroat trout)		49	56.3	40-190	1-68	NATIVE	INVERTIVORE	COLD	49-AA
Salvelinus fontinalis.									
(Brook trout)		38	43.7	30-186	1-78	INTRODUCED	INVERTIVORE	COLD	38-AA

TOTAL NUMBER OF TAXA 2
TOTAL INDIVIDUALS 87

4739251155302 EAST FORK EAGLE CREEK NEAR MOUTH

COLLECTION METHODS.--Electrofishing; backpack (11A).

LENGTH OF REACH.--200 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.48 hours.

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Aug.10								
Salmonidae (Trouts)									
Oncorhynchus clarki sp.									
(Cutthroat trout)		93	87.7	36-235	1-136	NATIVE	INVERTIVORE	COLD	93-AA
Salvelinus fontinalis.									
(Brook trout)		13	12.3	95-197	7-86	INTRODUCED	INVERTIVORE	COLD	13-AA

TOTAL NUMBER OF TAXA 2
TOTAL INDIVIDUALS 106

4742061155134 WEST FORK EAGLE CREEK BELOW SETTLERS GROVE

COLLECTION METHODS.--Electrofising; backpack (11A).

LENGTH OF REACH.--150 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.45 hours.

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

COMMENTS.--.Two tailed frogs were collected.

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Aug.9								
Cottidae (Sculpins)									
Cottus confusus									
(Shorthead sculpin)		158	76.3	30-105	1-17	NATIVE	INVERTIVORE	COLD	158-AA
Salmonidae (Trouts)									
Oncorhynchus clarki sp.									
(Cutthroat trout)		30	14.5	73-210	4-99	NATIVE	INVERTIVORE	COLD	30-AA
Salvelinus fontinalis.									
(Brook trout)		19	9.2	105-223	14-127	INTRODUCED	INVERTIVORE	COLD	19-AA

TOTAL NUMBER OF TAXA 3
TOTAL INDIVIDUALS 207

BIOLOGICAL DATA, AUGUST 2000
FISH COLLECTION DATA

PEND OREILLE RIVER BASIN

4725101153608 ST REGIS RIVER ABOVE RAINY CREEK, MT

COLLECTION METHODS.--Electrofishing; backpack (11A).

LENGTH OF REACH.--.150 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.66 hours.

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

COMMENTS.--*Ascaplus* sp. tailed frogs were collected.

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Aug. 23								
Cottidae (Sculpins)									
Cottus confusus (Shorthead sculpin)		229	92.3	30-112	1-19	NATIVE	INVERTIVORE	COLD	229-AA
Salmonidae (Trouts)									
Oncorhynchus clarki sp. (Cutthroat trout)		16	6.4	35-250	1-181	NATIVE	INVERTIVORE	COLD	16-AA
Oncorhynchus mykiss sp. (Rainbow trout)		4		173-250	55-167	NATIVE	INVERTIVORE	COLD	4-AA
Salvelinus fontinalis (Brook trout)		3	1.2	67-212	4-123	INTRODUCED	INVERTIVORE	COLD	3-AA

TOTAL NUMBER OF TAXA 3
TOTAL INDIVIDUALS 248

4723041152359 ST REGIS RIVER NEAR HAUGEN, MT

COLLECTION METHODS.--Electrofishing; backpack (11A).

LENGTH OF REACH.--.250 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.75 hours.

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Aug. 23								
Cottidae (Sculpins)									
Cottus confusus (Shorthead sculpin)		337	91.3	39-118	1-19	NATIVE	INVERTIVORE	COLD	337-AA
Salmonidae (Trouts)									
Oncorhynchus clarki sp. (Cutthroat trout)		18	4.9	41-305	1-313	NATIVE	INVERTIVORE	COLD	18-AA
Oncorhynchus mykiss sp. (Rainbow trout)		2	0.5	130-195	20-72	NATIVE	INVERTIVORE	COLD	2-AA
Prosopium williamsoni (Mountain whitefish)		1	0.3	97	8	NATIVE	INVERTIVORE	COLD	1-AA
Salmo trutta (Brown trout)		1	0.3	262	206	INTRODUCED	INVERTIVORE	COLD	1-AA
Salvelinus fontinalis (Brook trout)		10	2.7	57-270	2-229	INTRODUCED	INVERTIVORE	COLD	9-AA,1-ER

TOTAL NUMBER OF TAXA 6
TOTAL INDIVIDUALS 369

12354000 ST REGIS RIVER NEAR ST REGIS, MT

COLLECTION METHODS.--Electrofishing; backpack (11A).

LENGTH OF REACH.--.250 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.73 hours.

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Aug. 24								
Cottidae (Sculpins)									
Cottus confusus (Shorthead sculpin)		158	69.3	41-89	1-7	NATIVE	INVERTIVORE	COLD	158-AA
Cyprinidae (Carps and minnows)									
Rhynichthys cataractae (Longnose dace)		2	0.9	90-91	7-10	NATIVE	INVERTIVORE	COLD	2-AA
Salmonidae (Trouts)									
Oncorhynchus mykiss sp. (Rainbow trout)		41	18	44-125	1-26	NATIVE	INVERTIVORE	COLD	41-AA
Prosopium williamsoni (Mountain whitefish)		1	0.4	392	625	NATIVE	INVERTIVORE	COLD	1-AA
Salmo trutta (Brown trout)		24	10.5	58-480	2-1204	INTRODUCED	INVERTIVORE	COLD	24-AA
Salvelinus fontinalis (Brook trout)		2	0.9	71-202	4-88	INTRODUCED	INVERTIVORE	COLD	2-AA

TOTAL NUMBER OF TAXA 6
TOTAL INDIVIDUALS 228

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
TRIBUTARIES BETWEEN BOISE RIVER GAGING STATIONS AT GLENWOOD BRIDGE AND NEAR PARMA									
13206400 EAGLE DRAIN AT EAGLE, ID 04N01E09(LAT 43 41 38N LONG 116 21 11W)									
OCT 25...	1130	14	330	7.5	16.0	11.9	10.1	102	220
NOV 15...	1135	11	331	7.7	7.0	9.8	9.3	90	K110
DEC 13...	1045	12	297	7.7	1.0	8.0	11.4	107	300
JAN 10...	1615	9.7	367	7.6	3.0	7.1	9.2	76	200
FEB 14...	1435	12	261	7.7	16.5	10.8	11.0	100	280
MAR 13...	1435	14	260	7.7	16.0	11.4	13.0	119	K14
MAY 15...	1110	35	207	7.7	19.0	12.1	9.7	102	280
13208750 THURMAN DRAIN AT MOUTH NEAR EAGLE, ID 04N01W24ABD (LAT 43 40 28N LONG 116 23 55W)									
OCT 28...	1450	7.3	521	7.8	13.5	12.8	9.3	99	330
NOV 18...	1530	6.9	518	7.6	10.5	10.8	9.5	94	K62
DEC 15...	1445	6.7	499	7.8	3.0	8.4	10.4	97	260
JAN 10...	1405	7.4	505	7.8	4.0	7.1	79.9	10	140
FEB 14...	1210	8.5	418	8.0	14.0	9.4	11.1	97	310
MAR 13...	1215	7.7	463	7.9	10.0	9.9	12.4	120	K30
MAY 15...	1335	14	294	8.0	21.0	15.5	9.9	110	2400
13210007 BOISE RIVER AT STAR BRIDGE NEAR STAR, ID (LAT 43 40 49N LONG 116 29 33W)									
APR 19...	1505	3090	91	8.0	20.0	9.6	11.3	99	100
13210815 FIFTEENMILE CREEK AT MOUTH NR MIDDLETON, ID (LAT 43 41 15N LONG 116 35 22W)									
OCT 27...	1505	43	623	8.8	12.5	11.0	15.9	159	K88
NOV 18...	1310	35	619	8.2	8.0	8.8	15.6	146	100
DEC 16...	0920	32	614	7.8	4.0	6.9	11.1	99	470
JAN 12...	1550	35	418	8.1	1.5	4.6	11.9	92	470
FEB 16...	1625	26	547	8.4	9.0	8.4	12.6	108	K75
MAR 16...	1420	28	618	8.2	6.0	7.6	12.8	107	K360
MAY 16...	1415	172	222	8.0	23.0	13.9	9.5	102	630
132108247 MILL SLOUGH BL GRADE DITCH NR MIDDLETON, ID (LAT 43 42 04N LONG 116 37 20W)									
OCT 25...	1415	88	290	8.0	--	11.6	14.1	140	230
NOV 15...	1420	63	408	7.9	7.5	9.2	9.9	94	360

K Results based on counts outside ideal colony range.

ANALYSES OF SAMPLES COLLECTED AT WATER QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

DATE	E. COLI ONPG-MUG, AUTO AN (COLONIES/ 100 ML (50468)	COLIFORM, TOTAL, ONPG, AUTO AN (MPN/ 100 ML (90908)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
TRIBUTARIES BETWEEN BOISE RIVER GAGING STATIONS AT GLENWOOD BRIDGE AND NEAR PARMA									
13206400 EAGLE DRAIN AT EAGLE, ID 04N01E09(LAT 43 41 38N LONG 116 21 11W)									
OCT 25...	150	>9600	1.98	<.020	.18	.123	.117	6	.23
NOV 15...	83	>4800	1.92	.043	.29	.167	.138	13	.40
DEC 13...	17	3100	1.93	.086	.82	.193	.132	50	1.7
JAN 10...	85	4800	1.77	.097	.55	.219	.119	43	1.1
FEB 14...	200	>9600	5.01	<.020	.35	.259	.231	25	.80
MAR 13...	4	1200	1.45	<.020	.23	.081	.066	10	.37
MAY 15...	730	>2400	1.09	<.020	.27	.107	.057	15	1.4
13208750 THURMAN DRAIN AT MOUTH NEAR EAGLE, ID 04N01W24ABD (LAT 43 40 28N LONG 116 23 55W)									
OCT 28...	340	6900	3.83	.053	.33	.112	.109	6	.12
NOV 18...	59	3300	3.79	.055	.27	.166	.129	8	.15
DEC 15...	240	>4800	4.08	.025	.38	.141	.127	12	.22
JAN 10...	99	>4800	3.80	.039	.22	.165	.141	8	.16
FEB 14...	200	9700	3.29	.037	.41	.176	.147	9	.21
MAR 13...	24	3100	3.48	<.020	.25	.127	.110	7	.15
MAY 15...	>2400	>2400	1.41	.030	.32	.119	.076	6	.23
13210007 BOISE RIVER AT STAR BRIDGE NEAR STAR, ID (LAT 43 40 49N LONG 116 29 33W)									
APR 19...	70	>2400	.341	<.020	.25	.081	.039	37	309
13210815 FIFTEENMILE CREEK AT MOUTH NR MIDDLETON, ID (LAT 43 41 15N LONG 116 35 22W)									
OCT 27...	68	7900	4.81	<.020	.35	.389	.407	2	.23
NOV 18...	68	9600	4.73	.022	.45	.573	.505	3	.28
DEC 16...	300	>4800	5.16	<.020	.48	.739	.680	6	.52
JAN 12...	330	>4800	3.44	.177	.90	.435	.346	34	3.2
FEB 16...	54	2000	4.64	.026	.57	.296	.489	17	1.2
MAR 16...	370	>4800	4.75	.030	.54	.577	.514	14	1.1
MAY 16...	770	>2400	1.24	.031	.64	.279	.163	136	63
132108247 MILL SLOUGH BL GRADE DITCH NR MIDDLETON, ID (LAT 43 42 04N LONG 116 37 20W)									
OCT 25...	200	>9600	1.76	<.020	.27	.124	.122	6	1.4
NOV 15...	610	>4800	3.39	.027	.36	.221	.168	10	1.7

ANALYSES OF SAMPLES COLLECTED AT WATER QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
TRIBUTARIES BETWEEN BOISE RIVER GAGING STATIONS AT GLENWOOD BRIDGE AND NEAR PARMA									
132108247 MILL SLOUGH BL GRADE DITCH NR MIDDLETON, ID (LAT 43 42 04N LONG 116 37 20W)									
DEC 13...	1315	54	406	8.2	4.0	7.9	10.9	100	240
JAN 10...	1050	50	386	7.8	4.0	7.7	9.6	81	480
FEB 15...	1030	56	363	7.8	6.0	7.1	11.6	96	K3100
MAR 14...	1030	54	399	7.9	10.5	10.2	11.4	101	K140
MAY 18...	1015	129	243	7.8	15.5	12.5	9.1	93	880
13210835 WILLOW CREEK AT MIDDLETON, ID (LAT 43 42 24N LONG 116 37 47W)									
OCT 26...	1020	10	333	8.0	7.0	8.7	10.3	96	350
NOV 16...	1000	1.3	444	7.9	5.0	4.6	13.4	113	K30
DEC 13...	1445	.87	425	8.4	4.5	4.0	13.0	109	K13
JAN 11...	1245	2.2	385	8.0	4.0	3.5	11.7	88	120
FEB 15...	1235	12	207	7.7	7.0	5.0	12.3	96	650
MAR 14...	1250	3.0	282	8.0	14.5	12.2	10.2	95	<1
MAY 18...	1212	42	143	7.9	19.0	14.6	9.1	99	1400
13210850 MASON SLOUGH AT MOUTH NR CALDWELL, ID (LAT 43 41 32N LONG 116 39 56W)									
OCT 27...	1245	13	593	8.0	11.5	11.2	11.3	114	K380
NOV 18...	1025	7.6	528	7.8	4.0	6.6	10.6	95	1100
DEC 16...	1215	4.7	614	7.4	6.0	7.8	10.6	97	4100
JAN 12...	1130	4.8	432	7.8	1.5	4.4	9.8	76	K6700
FEB 17...	1030	3.1	448	8.0	16.0	5.6	15.0	120	2200
MAR 16...	1210	2.5	464	8.1	4.5	6.9	13.4	110	4100
MAY 19...	1055	8.8	419	8.0	20.0	17.0	10.3	116	1100
13210985 MASON CREEK AT MOUTH NR CALDWELL, ID (LAT 43 41 55N LONG 116 40 22W)									
OCT 27...	1030	84	669	8.2	4.5	11.5	10.8	108	130
NOV 16...	1545	73	656	8.3	9.5	10.6	12.6	126	K83
DEC 14...	1540	64	622	8.4	3.5	8.9	11.9	112	190
JAN 12...	1355	59	571	8.2	3.0	8.4	10.9	94	440
FEB 16...	1435	48	582	8.2	9.0	10.1	10.5	93	220
MAR 15...	1420	50	578	8.4	14.0	11.6	13.3	122	140
APR 19...	1415	103	308	8.3	20.5	14.1	9.7	103	--
MAY 17...	1522	150	325	8.2	22.0	15.3	9.1	100	410
JUN 15...	1310	196	354	8.1	24.0	19.6	9.2	106	--

K Results based on counts outside ideal colony range.

ANALYSES OF SAMPLES COLLECTED AT WATER QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

DATE	E. COLI ONPG-MUG, AUTO AN (COLONIES/ 100 ML (50468)	COLIFORM, TOTAL, ONPG, AUTO AN (MPN/ 100 ML (90908)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
TRIBUTARIES BETWEEN BOISE RIVER GAGING STATIONS AT GLENWOOD BRIDGE AND NEAR PARMA									
132108247 MILL SLOUGH BL GRADE DITCH NR MIDDLETON, ID (LAT 43 42 04N LONG 116 37 20W)									
DEC 13...	100	>4800	3.76	.056	.56	.206	.186	16	2.4
JAN 10...	430	>4800	3.64	.122	.55	.251	.186	21	2.8
FEB 15...	90	7900	3.12	.075	.76	.219	.163	27	4.1
MAR 14...	190	6200	3.48	.034	.37	.183	.139	21	3.1
MAY 18...	920	>2400	1.36	<.020	.42	.171	.107	24	8.4
13210835 WILLOW CREEK AT MIDDLETON, ID (LAT 43 42 24N LONG 116 37 47W)									
OCT 26...	240	>9600	2.31	<.020	.29	.171	.166	5	.14
NOV 16...	21	6900	2.22	<.020	.30	.275	.260	173	.61
DEC 13...	120	>4800	2.78	<.020	.28	.304	.293	2	.00
JAN 11...	43	>4800	2.64	.044	.53	.377	.248	27	.16
FEB 15...	290	4800	.502	.026	1.1	.511	.159	158	5.2
MAR 14...	12	1800	.805	<.020	.31	.191	.178	1630	13
MAY 18...	1200	>2400	.650	<.020	.47	.152	.087	49	5.5
13210850 MASON SLOUGH AT MOUTH NR CALDWELL, ID (LAT 43 41 32N LONG 116 39 56W)									
OCT 27...	220	>9600	1.96	.050	.55	.126	.094	20	.72
NOV 18...	840	>9600	1.94	.108	.75	.194	.086	58	1.2
DEC 16...	630	>4800	1.22	.150	1.1	.223	.089	94	1.2
JAN 12...	9200	24000	1.38	.355	3.9	.841	.138	350	4.5
FEB 17...	2000	7900	1.16	.086	.63	.846	.092	27	.23
MAR 16...	3100	>4800	1.24	.070	.78	.156	.070	27	.19
MAY 19...	770	>2400	.994	.048	.72	.284	.191	27	.64
13210985 MASON CREEK AT MOUTH NR CALDWELL, ID (LAT 43 41 55N LONG 116 40 22W)									
OCT 27...	98	2000	5.19	<.020	.29	.166	.173	9	2.0
NOV 16...	140	4500	5.17	<.020	.38	.277	.176	7	1.4
DEC 14...	200	4800	5.07	<.020	.74	.282	.185	83	14
JAN 12...	320	6600	5.47	.093	.88	.309	.218	71	11
FEB 16...	190	5200	4.80	.039	.71	.290	.164	132	17
MAR 15...	140	1200	4.48	<.020	.50	.216	.142	73	9.8
APR 19...	460	>2400	1.83	.023	.62	.287	.118	218	61
MAY 17...	440	>2400	2.37	.025	.69	.442	.203	219	89
JUN 15...	360	>9600	2.75	.106	1.1	.581	.281	246	130

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
TRIBUTARIES BETWEEN BOISE RIVER GAGING STATIONS AT GLENWOOD BRIDGE AND NEAR PARMA									
13210985 MASON CREEK AT MOUTH NR CALDWELL, ID (LAT 43 41 55N LONG 116 40 22W)									
JUL 19...	1000	133	403	7.4	24.0	17.4	7.7	87	--
AUG 15...	1525	113	441	8.1	28.0	19.8	15.0	180	--
SEP 13...	1645	167	411	7.9	31.5	19.0	8.6	102	--
13210986 W HARTLEY GULCH NR CALDWELL, ID (LAT 43 41 59N LONG 116 41 05W)									
OCT 26...	1440	16	401	7.9	19.0	12.1	12.9	131	300
NOV 16...	1350	8.2	485	7.8	11.0	11.6	10.3	105	530
DEC 14...	1340	6.4	466	8.1	5.0	9.6	12.5	102	100
JAN 11...	1600	6.5	423	7.9	4.0	9.4	9.6	84	640
FEB 15...	1600	5.5	446	8.1	10.5	10.6	17.4	156	80
MAR 14...	1620	4.9	455	8.3	15.5	12.8	12.0	114	52
MAY 18...	1538	26	191	7.9	24.0	16.6	8.8	99	710
13210987 E HARTLEY DRAIN NR CALDWELL, ID (LAT 43 41 56N LONG 116 40 38W)									
OCT 26...	1615	38	609	8.1	21.0	13.5	11.3	120	220
NOV 16...	1212	24	705	8.0	8.5	11.1	12.7	127	120
DEC 14...	1200	19	677	8.3	3.0	9.4	12.0	113	85
JAN 11...	1440	21	615	8.1	4.0	9.4	10.2	89	660
FEB 15...	1435	17	636	8.4	10.0	11.1	14.9	136	54
MAR 14...	1435	16	641	8.6	16.0	14.0	16.0	156	19
MAY 18...	1400	64	336	8.2	23.0	16.3	10.0	112	870
13211445 INDIAN CREEK AT MOUTH NR CALDWELL, ID (LAT 43 40 26N LONG 116 42 05W)									
OCT 26...	1220	235	731	8.2	17.0	13.1	11.6	120	290
NOV 17...	1055	219	766	8.0	9.5	12.2	12.0	123	430
DEC 14...	0930	202	709	8.6	1.0	10.0	11.4	109	580
JAN 13...	1520	194	659	8.3	6.0	9.7	10.8	95	160
FEB 17...	1250	174	713	8.3	8.0	10.8	14.9	135	210
MAR 16...	1010	173	710	8.1	7.5	10.7	10.8	97	260
APR 19...	1035	117	309	8.0	13.0	10.7	10.7	98	--
MAY 17...	1325	120	387	8.2	20.5	14.3	10.7	116	490
JUN 15...	1545	85	434	8.3	26.0	19.6	9.7	115	--
JUL 19...	1210	86	430	7.6	28.0	18.6	8.8	103	--
AUG 15...	1210	66	444	7.9	24.5	17.7	14.7	169	--
SEP 13...	1317	210	473	7.9	23.0	17.7	9.3	107	--

ANALYSES OF SAMPLES COLLECTED AT WATER QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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

DATE	E. COLI ONPG-MUG, AUTO AN (COLONIES/ 100 ML (50468)	COLIFORM, TOTAL, ONPG, AUTO AN (MPN/ 100 ML (90908)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
TRIBUTARIES BETWEEN BOISE RIVER GAGING STATIONS AT GLENWOOD BRIDGE AND NEAR PARMA									
13210985 MASON CREEK AT MOUTH NR CALDWELL, ID (LAT 43 41 55N LONG 116 40 22W)									
JUL 19...	470	>24000	3.48	.041	.92	.521	.305	190	68
AUG 15...	950	>9600	3.01	<.020	.63	.402	.277	85	26
SEP 13...	270	>24000	2.89	.021	.61	.322	.243	56	25
13210986 W HARTLEY GULCH NR CALDWELL, ID (LAT 43 41 59N LONG 116 41 05W)									
OCT 26...	340	>9600	3.26	<.020	.31	.262	.256	7	.30
NOV 16...	570	7900	4.28	<.020	.28	.308	.391	5	.11
DEC 14...	140	>4800	4.24	<.020	.45	.429	.390	10	.17
JAN 11...	320	>4800	4.29	.046	.54	.484	.417	9	.16
FEB 15...	54	1700	3.93	<.020	.32	.381	.369	4	.06
MAR 14...	66	4800	3.88	<.020	.26	.339	.349	5	.07
MAY 18...	920	>2400	.981	<.020	.42	.202	.116	46	3.2
13210987 E HARTLEY DRAIN NR CALDWELL, ID (LAT 43 41 56N LONG 116 40 38W)									
OCT 26...	250	>9600	4.59	<.020	.30	.218	.228	13	1.3
NOV 16...	40	6900	5.35	<.020	.28	.208	.267	8	.52
DEC 14...	71	>4800	5.47	<.020	.42	.300	.262	29	1.5
JAN 11...	1000	>4800	5.25	.063	.67	.385	.294	46	2.6
FEB 15...	25	2300	1.63	.049	.40	.173	.113	9	.41
MAR 14...	13	2400	4.91	<.020	.37	.218	.223	16	.69
MAY 18...	770	>2400	1.95	.025	.48	.255	.144	69	12
13211445 INDIAN CREEK AT MOUTH NR CALDWELL, ID (LAT 43 40 26N LONG 116 42 05W)									
OCT 26...	150	7800	6.50	<.020	.54	.543	.493	33	21
NOV 17...	380	>9600	6.93	.074	.56	.652	.572	35	21
DEC 14...	260	4800	6.99	<.020	.55	.625	.541	38	21
JAN 13...	110	5200	8.59	.020	.48	.590	.533	45	24
FEB 17...	--	--	7.21	.104	.55	.551	.531	44	21
MAR 16...	200	2200	7.33	<.020	.46	.643	.567	30	14
APR 19...	170	>2400	2.86	.037	.41	.362	.299	52	16
MAY 17...	870	>2400	3.08	<.020	.67	.493	.347	82	27
JUN 15...	310	>9600	3.35	.024	.74	.505	.357	73	17
JUL 19...	570	>24000	3.50	<.020	.65	.576	.452	78	18
AUG 15...	120	>9600	3.23	<.020	.47	.530	.427	39	6.9
SEP 13...	150	9600	3.42	<.020	.51	.407	.341	40	23

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
TRIBUTARIES BETWEEN BOISE RIVER GAGING STATIONS AT GLENWOOD BRIDGE AND NEAR PARMA									
13212550 CONWAY GULCH AT NOTUS, ID (LAT 43 43 36N LONG 116 48 12W)									
OCT 28...	1245	24	822	8.1	14.5	13.3	11.7	125	120
NOV 17...	1645	19	818	8.1	6.0	12.8	10.3	106	K28
DEC 15...	1230	16	768	8.3	1.5	10.7	12.7	125	41
JAN 13...	1300	17	692	8.2	4.0	9.8	10.7	95	82
FEB 16...	1235	15	722	8.3	8.0	10.9	12.3	112	K13
MAR 15...	1210	13	718	8.5	8.5	11.1	15.2	138	K8
MAY 16...	1605	40	427	8.1	20.0	15.0	8.8	97	260
13212890 DIXIE DRAIN NR WILDER, ID (LAT 43 43 51N LONG 116 53 18W)									
OCT 28...	1045	165	674	8.1	9.5	11.2	11.4	113	K3300
NOV 17...	1400	86	787	8.3	9.5	10.0	12.3	120	290
DEC 15...	0945	73	778	8.4	1.0	6.2	12.1	105	210
JAN 13...	1040	66	722	8.2	4.0	4.7	11.9	93	140
FEB 16...	1040	64	763	8.2	2.5	7.4	12.5	104	200
MAR 15...	1015	67	784	8.3	5.0	8.4	13.0	111	300
MAY 17...	1110	243	407	8.0	17.5	13.7	9.5	101	2000

DATE	E. COLI ONPG-MUG, AUTO AN (COLO-NIES/ 100 ML (50468)	COLI-FORM, TOTAL, ONPG, AUTO AN (MPN/ 100 ML (90908)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
13212550 CONWAY GULCH AT NOTUS, ID (LAT 43 43 36N LONG 116 48 12W)									
OCT 28...	58	3100	5.87	<.020	.29	.168	.171	16	1.0
NOV 17...	21	5200	5.56	<.020	.22	.186	.163	10	.52
DEC 15...	44	2400	5.48	<.020	.38	.155	.171	13	.56
JAN 13...	54	2500	5.93	<.020	.24	.193	.166	23	1.0
FEB 16...	4	3700	5.39	<.020	.21	.183	.163	10	.40
MAR 15...	8	870	5.20	<.020	.26	.153	.146	32	1.2
MAY 16...	210	>2400	2.65	<.020	.59	.254	.121	214	23
13212890 DIXIE DRAIN NR WILDER, ID (LAT 43 43 51N LONG 116 53 18W)									
OCT 28...	3700	>9600	4.06	.075	.68	.272	.264	13	5.8
NOV 17...	300	>9600	4.84	.075	.53	.200	.171	7	1.6
DEC 15...	150	>4800	5.37	.182	.84	.216	.178	28	5.5
JAN 13...	72	3300	5.90	.207	.70	.240	.193	34	6.1
FEB 16...	190	3700	5.38	.066	.55	.402	.161	25	4.3
MAR 15...	300	3900	5.25	<.020	.62	.196	.153	44	7.9
MAY 17...	>2400	>2400	1.98	.044	.69	.401	.242	93	61

K Results based on counts outside ideal colony range.

ANALYSES OF SAMPLES COLLECTED AT PAYETTE LAKE SITES

445550116055000 PAYETTE LAKE STATION 1, SOUTHWEST BASIN NEAR MCCALL, ID

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

DATE	TIME	DEPTH BOTTOM AT SAMPLE LOC-ATION, (FEET) (81903)	TEMPER-ATURE AIR (DEG C) (00020)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT, ATTENU-ATION COEFFI-CIENT (ALPHA/ METER) (70971)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)
MAY							
31...	1040	222.0	5.0	370	.41	10	3.50
JUN							
19...	1140	227.0	13.0	1800	--	12	6.00
JUL							
24...	1140	226.0	27.0	1700	.37	13	7.50
AUG							
22...	1025	229.0	16.0	900	.37	12	6.30
SEP							
19...	1115	227.0	16.0	400	.31	13	5.00

DATE	TIME	SAM-PLING DEPTH (M) (00098)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
MAY										
31...	1145	2.0	.035	<.002	--	.13	E.006	<.001	2.2	<.1
31...	1200	64.0	.152	<.002	--	.12	.008	.001	--	--
JUN										
19...	1140	67.0	.133	.002	.10	.10	E.004	<.001	--	--
19...	1200	2.0	.012	<.002	--	.14	E.006	<.001	2.3	<.1
JUL										
24...	1200	2.0	.012	.003	.15	.16	<.008	.001	1.5	<.1
24...	1230	65.0	.134	.008	.12	.13	<.008	.002	--	--
AUG										
22...	1000	2.0	<.005	<.002	--	.14	<.008	<.001	.7	<.1
22...	1030	66.0	.197	<.002	--	.10	E.006	<.001	--	--
SEP										
19...	1130	2.0	<.005	.003	--	E.10	E.006	<.001	1.9	<.1
19...	1200	66.0	.213	.004	--	E.10	.013	.005	--	--

Note:Sampling depths of 2 meters denote a depth-integrated composite sample of the euphotic zone.
E Positive detection, but below detection limit.

ANALYSES OF SAMPLES COLLECTED AT PAYETTE LAKE SITES

445550116055000 PAYETTE LAKE STATION 1, SOUTHWEST BASIN NEAR MCCALL, ID--Continued

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

DATE	TIME	SAMPLING DEPTH (M) (00098)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
MAY								
31...	1045	2.0	9.3	18	--	10.8	110	650
31...	1046	4.0	9.3	18	--	10.8	110	650
31...	1047	6.0	9.0	18	--	10.7	109	650
31...	1048	8.0	8.6	18	--	10.7	108	650
31...	1049	10.0	8.4	18	--	10.7	107	650
31...	1050	15.0	6.7	19	--	10.2	98	650
31...	1051	20.0	5.8	19	--	9.8	92	650
31...	1052	30.0	5.5	19	--	9.4	87	650
31...	1053	40.0	4.7	19	--	8.7	79	650
31...	1054	50.0	4.2	19	--	8.5	76	650
31...	1055	60.0	4.0	20	--	6.0	54	650
31...	1056	62.0	4.0	20	--	5.6	50	650
31...	1057	64.0	4.0	21	--	5.1	46	650
31...	1058	66.0	4.0	21	--	5.0	45	650
31...	1059	67.0	4.0	21	--	4.8	43	650
JUN								
19...	1145	1.0	14.8	--	--	9.9	--	647
19...	1146	3.0	14.7	--	--	9.7	--	647
19...	1147	5.0	14.3	--	--	9.9	--	647
19...	1148	7.0	12.7	--	--	10.3	--	647
19...	1149	9.0	9.1	--	--	10.8	--	647
19...	1150	11.0	8.2	--	--	10.5	--	647
19...	1151	15.0	7.3	--	--	10.0	--	647
19...	1152	20.0	6.3	--	--	9.5	--	647
19...	1153	30.0	5.0	--	--	8.7	--	647
19...	1154	40.0	4.4	--	--	8.6	--	647
19...	1155	50.0	4.2	--	--	8.5	--	647
19...	1156	60.0	4.2	--	--	7.1	--	647
19...	1157	65.0	4.2	--	--	5.1	--	647
19...	1158	67.0	4.2	--	--	4.5	--	647
19...	1159	69.0	4.1	--	--	3.8	--	647
JUL								
24...	1145	1.0	21.4	18	7.3	8.2	109	652
24...	1146	3.0	20.9	18	7.3	8.2	108	652
24...	1147	5.0	20.4	18	7.4	8.3	108	652
24...	1148	7.0	17.4	18	7.5	8.3	102	652
24...	1149	8.0	15.3	18	7.5	9.7	113	652
24...	1150	9.0	12.7	18	7.4	10.1	111	652
24...	1151	10.0	10.7	18	7.4	10.2	108	652
24...	1152	11.0	9.5	18	7.3	10.0	102	652
24...	1153	12.0	8.6	18	7.2	9.7	97	652
24...	1154	13.0	8.0	19	7.1	9.2	91	652
24...	1155	15.0	7.1	19	6.8	8.9	86	652
24...	1156	20.0	6.3	19	6.8	8.2	78	652
24...	1157	30.0	5.2	19	6.7	7.8	72	652
24...	1158	40.0	4.8	19	6.6	7.7	70	652
24...	1159	50.0	4.4	20	6.6	7.7	69	652
24...	1200	60.0	4.3	20	6.5	6.4	58	652
24...	1201	62.0	4.3	20	6.5	5.5	49	652
24...	1202	64.0	4.2	20	6.4	4.8	43	652
24...	1203	66.0	4.2	20	6.4	3.8	34	652
24...	1204	67.0	4.2	21	6.3	3.3	30	652
24...	1205	68.0	4.2	23	6.3	2.4	22	652
AUG								
22...	1030	1.0	19.5	18	7.1	8.0	103	650
22...	1031	3.0	19.4	18	7.1	8.0	102	650
22...	1032	5.0	19.4	18	7.1	8.0	102	650
22...	1033	7.0	19.2	18	7.1	8.0	102	650
22...	1034	8.0	19.1	18	7.1	8.0	102	650
22...	1035	9.0	14.9	17	7.3	10.2	119	650
22...	1036	10.0	12.2	18	7.4	10.4	114	650
22...	1037	11.0	10.6	18	7.3	10.4	110	650
22...	1038	12.0	10.0	18	7.2	9.9	103	650
22...	1039	15.0	7.6	18	7.1	8.8	86	650
22...	1040	20.0	6.5	19	7.0	8.0	76	650
22...	1041	30.0	5.3	19	6.9	7.8	72	650
22...	1042	40.0	4.8	19	6.8	7.5	69	650
22...	1043	50.0	4.4	20	6.7	6.8	62	650
22...	1044	60.0	4.3	21	6.5	4.6	42	650
22...	1045	62.0	4.3	20	6.4	4.2	38	650
22...	1046	64.0	4.2	21	6.4	3.6	32	650
22...	1047	66.0	4.2	22	6.3	2.0	18	650
22...	1048	67.0	4.2	24	6.2	1.1	10	650
22...	1049	68.0	4.2	26	6.2	.3	3	650
22...	1050	69.0	4.2	28	6.2	.0	0	650
SEP								
19...	1120	1.0	16.5	18	7.5	8.9	107	650
19...	1121	3.0	16.5	18	7.6	8.9	107	650
19...	1122	5.0	16.4	18	7.7	8.8	106	650
19...	1123	7.0	16.3	18	7.7	8.8	105	650
19...	1124	9.0	15.0	18	7.7	8.8	103	650
19...	1125	10.0	14.3	18	7.6	8.8	101	650
19...	1126	11.0	13.9	18	7.5	8.5	97	650
19...	1127	12.0	10.6	18	7.5	8.9	94	650
19...	1128	13.0	10.1	18	7.3	8.7	91	650
19...	1129	14.0	8.9	18	7.2	8.5	86	650
19...	1130	15.0	8.7	19	7.1	8.3	84	650
19...	1131	20.0	6.2	19	6.8	7.3	69	650
19...	1132	30.0	5.0	20	6.8	7.2	66	650
19...	1133	40.0	4.6	20	6.7	6.9	63	650
19...	1134	50.0	4.4	20	6.6	6.3	57	650
19...	1135	60.0	4.2	21	6.5	3.9	35	650
19...	1136	62.0	4.2	21	6.5	3.2	29	650
19...	1137	64.0	4.2	22	6.4	2.1	19	650
19...	1138	66.0	4.2	25	6.3	.3	3	650
19...	1139	67.0	4.2	26	6.3	.1	1	650
19...	1140	69.0	4.2	32	6.3	.0	0	650

ANALYSES OF SAMPLES COLLECTED AT PAYETTE LAKE SITES

445615116033500 PAYETTE LAKE STATION 4, SOUTHEAST BASIN NEAR MCCALL, ID

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

DATE	TIME	DEPTH BOTTOM AT SAMPLE LOC-ATION, (FEET) (81903)	TEMPER-ATURE AIR (DEG C) (00020)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT, ATTENU-ATION COEFFI-CIENT (ALPHA/ METER) (70971)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)
MAY							
30...	1355	120.0	14.0	340	.42	10	4.00
JUN							
19...	1325	121.0	15.0	2100	.44	10	5.50
JUL							
25...	0935	119.0	22.0	950	.41	12	7.50
AUG							
21...	1220	119.0	21.5	1500	.37	12	7.00
SEP							
19...	1225	106.0	17.0	1700	.33	13	5.00

DATE	TIME	SAM-PLING DEPTH (M) (00098)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
MAY										
30...	1345	2.0	.045	<.002	--	.18	E.007	<.001	1.7	<.1
30...	1400	32.0	.085	.002	.12	.13	E.005	<.001	--	--
JUN										
19...	1310	2.0	.017	<.002	--	.11	E.004	<.001	1.8	<.1
19...	1330	34.0	.086	.003	.13	.14	E.004	<.001	--	--
JUL										
25...	0945	2.0	.013	<.002	--	.12	<.008	.001	.9	<.1
25...	1015	34.0	.088	.007	.13	.14	<.008	.001	--	--
AUG										
21...	1230	2.0	.012	.012	.11	.12	<.008	.001	.7	<.1
21...	1245	35.0	.101	.006	.12	.12	<.008	<.001	--	--
SEP										
19...	1230	31.5	.106	.007	--	<.10	<.008	<.001	--	--
19...	1300	2.0	.009	.008	--	E.10	<.008	<.001	1.6	<.1

Note: Sampling depths of 2 meters denote a depth-integrated composite sample of the euphotic zone.
E Positive detection, but below detection limit.

ANALYSES OF SAMPLES COLLECTED AT PAYETTE LAKE SITES

445615116033500 PAYETTE LAKE STATION 4, SOUTHEAST BASIN NEAR MCCALL, ID--Continued

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

DATE	TIME	SAMPLING DEPTH (M) (00098)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
MAY								
30...	1400	2.0	9.4	17	--	10.6	109	650
30...	1401	4.0	8.6	17	--	10.7	108	650
30...	1402	6.0	7.7	17	--	10.6	104	650
30...	1403	8.0	7.4	17	--	10.5	103	650
30...	1404	10.0	6.9	17	--	10.5	101	650
30...	1405	15.0	5.6	18	--	10.3	96	650
30...	1406	20.0	5.3	18	--	10.1	94	650
30...	1407	30.0	4.9	18	--	9.4	86	650
30...	1408	32.0	4.9	18	--	9.4	86	650
30...	1409	34.0	4.8	18	--	9.4	86	650
JUN								
19...	1330	1.0	14.8	--	--	10.0	--	647
19...	1331	3.0	14.5	--	--	10.0	--	647
19...	1332	5.0	13.9	--	--	10.0	--	647
19...	1333	7.0	12.5	--	--	10.2	--	647
19...	1334	9.0	10.6	--	--	10.1	--	647
19...	1335	11.0	8.5	--	--	10.1	--	647
19...	1336	15.0	6.9	--	--	10.0	--	647
19...	1337	20.0	6.2	--	--	9.9	--	647
19...	1338	25.0	5.8	--	--	9.7	--	647
19...	1339	30.0	5.5	--	--	9.4	--	647
19...	1340	35.0	5.3	--	--	9.4	--	647
JUL								
25...	0940	1.0	20.5	17	7.3	8.1	106	651
25...	0941	3.0	20.4	17	7.3	8.1	106	651
25...	0942	5.0	20.4	17	7.2	8.0	104	651
25...	0943	7.0	18.5	17	7.3	8.6	108	651
25...	0944	8.0	14.6	17	7.3	9.6	111	651
25...	0945	9.0	12.2	16	7.3	9.9	108	651
25...	0946	10.0	10.4	16	7.2	10.0	105	651
25...	0947	11.0	9.1	16	7.1	10.0	102	651
25...	0948	12.0	8.1	16	7.1	10.0	99	651
25...	0949	15.0	7.3	16	7.0	9.7	94	651
25...	0950	20.0	6.4	17	7.0	9.3	88	651
25...	0951	25.0	5.9	17	6.9	9.1	85	651
25...	0952	30.0	5.6	17	6.8	8.8	82	651
25...	0953	35.0	5.6	17	6.7	8.3	77	651
AUG								
21...	1225	1.0	19.5	17	--	8.0	102	652
21...	1226	3.0	19.2	18	--	8.0	102	652
21...	1227	5.0	19.1	18	--	8.0	101	652
21...	1228	7.0	19.0	18	--	8.0	101	652
21...	1229	8.0	18.9	18	--	8.0	101	652
21...	1230	9.0	11.7	16	--	9.8	106	652
21...	1231	10.0	10.0	16	--	10.0	104	652
21...	1232	11.0	8.9	16	--	9.7	98	652
21...	1233	12.0	8.2	17	--	9.6	95	652
21...	1234	15.0	7.0	17	--	9.3	90	652
21...	1235	20.0	6.3	17	--	8.8	83	652
21...	1236	25.0	6.0	17	--	8.6	81	652
21...	1237	30.0	5.8	17	--	8.5	79	652
21...	1238	35.0	5.7	17	--	8.2	76	652
SEP								
19...	1300	1.0	16.6	18	7.4	8.7	105	650
19...	1301	3.0	16.4	18	7.4	8.7	105	650
19...	1302	5.0	16.1	18	7.4	8.6	103	650
19...	1303	7.0	15.5	18	7.4	8.6	101	650
19...	1304	10.0	14.6	18	7.4	8.5	98	650
19...	1305	11.0	12.5	17	7.3	8.7	96	650
19...	1306	13.0	9.3	17	7.3	9.0	92	650
19...	1307	14.0	8.5	16	7.2	8.9	89	650
19...	1308	15.0	8.0	16	7.1	8.8	87	650
19...	1309	20.0	6.6	16	7.0	8.6	82	650
19...	1310	30.0	5.9	16	6.9	8.2	77	650
19...	1311	32.0	5.8	16	6.8	8.0	75	650

ANALYSES OF SAMPLES COLLECTED AT PAYETTE LAKE SITES

445850116035000 PAYETTE LAKE STATION 3, NORTHEAST BASIN NEAR MCCALL, ID

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

DATE	TIME	DEPTH BOTTOM AT SAMPLE LOC-ATION, (FEET) (81903)	TEMPER-ATURE AIR (DEG C) (00020)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT, ATTENU-ATION COEFFI-CIENT (ALPHA/ METER) (70971)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)
MAY							
30...	0925	303.0	15.0	900	.38	10	4.30
JUN							
19...	1425	295.0	15.0	580	.39	10	4.50
JUL							
24...	1455	290.0	28.0	1850	.37	13	6.00
AUG							
21...	1455	300.0	21.0	1750	.37	13	5.60
SEP							
19...	1350	300.0	18.0	1500	.35	13	5.00

DATE	TIME	SAM-PLING DEPTH (M) (00098)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
MAY										
30...	1515	2.0	.055	<.002	--	.14	E.007	<.001	1.3	<.1
30...	1530	90.0	.103	.038	.11	.15	E.005	.002	--	--
JUN										
19...	1430	88.0	.097	.006	--	E.10	E.005	<.001	--	--
19...	1500	2.0	.021	<.002	--	E.10	E.005	<.001	1.9	<.1
JUL										
24...	1435	88.0	.109	.005	.10	.11	<.008	.002	--	--
24...	1500	2.0	.017	<.002	--	.12	<.008	.001	1.1	<.1
AUG										
21...	1400	2.0	.010	.012	.11	.12	<.008	<.001	.8	<.1
21...	1415	90.0	.122	.002	--	E.10	<.008	<.001	--	--
SEP										
19...	1345	2.0	.010	.002	--	E.10	<.008	<.001	1.6	<.1
19...	1415	88.0	.167	.006	--	E.10	<.008	<.001	--	--

Note: Sampling depths of 2 meters denote a depth-integrated composite sample of the euphotic zone.
E Positive detection, but below detection limit.

ANALYSES OF SAMPLES COLLECTED AT PAYETTE LAKE SITES

445850116035000 PAYETTE LAKE STATION 3, NORTHEAST BASIN NEAR MCCALL ID--Continued

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

DATE	TIME	SAMPLING DEPTH (M) (00098)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
MAY								
30...	0930	2.0	8.5	17	--	10.8	108	650
30...	0931	4.0	8.5	17	--	10.8	108	650
30...	0932	6.0	8.4	17	--	10.7	107	650
30...	0933	8.0	7.9	16	--	10.7	106	650
30...	0934	10.0	7.3	16	--	10.6	103	650
30...	0935	15.0	6.4	16	--	10.6	101	650
30...	0936	20.0	5.7	16	--	10.5	98	650
30...	0937	30.0	5.0	17	--	10.3	95	650
30...	0938	40.0	4.8	17	--	10.2	93	650
30...	0939	50.0	4.5	17	--	10.0	91	650
30...	0940	60.0	4.4	17	--	10.0	90	650
30...	0941	70.0	4.3	17	--	10.0	90	650
30...	0942	80.0	4.3	17	--	9.9	89	650
30...	0943	90.0	4.2	17	--	9.7	87	650
30...	0944	92.0	4.2	18	--	9.6	86	650
JUN								
19...	1430	1.0	13.4	--	--	9.9	--	647
19...	1431	3.0	13.4	--	--	9.9	--	647
19...	1432	5.0	13.3	--	--	9.9	--	647
19...	1433	7.0	11.3	--	--	10.2	--	647
19...	1434	9.0	9.2	--	--	10.3	--	647
19...	1435	11.0	8.1	--	--	10.3	--	647
19...	1436	15.0	6.7	--	--	10.1	--	647
19...	1437	20.0	6.0	--	--	10.0	--	647
19...	1438	30.0	5.4	--	--	9.8	--	647
19...	1439	40.0	5.1	--	--	9.7	--	647
19...	1440	50.0	4.8	--	--	9.6	--	647
19...	1441	60.0	4.6	--	--	9.6	--	647
19...	1442	70.0	4.5	--	--	9.5	--	647
19...	1443	80.0	4.5	--	--	9.5	--	647
19...	1444	90.0	4.4	--	--	9.2	--	647
JUL								
24...	1500	1.0	21.4	17	7.1	8.0	106	652
24...	1501	3.0	20.4	17	7.1	8.1	105	652
24...	1502	5.0	20.0	17	7.1	8.1	105	652
24...	1503	7.0	17.4	17	7.1	8.8	108	652
24...	1504	8.0	14.8	16	7.1	9.2	106	652
24...	1505	9.0	13.4	16	7.1	9.4	105	652
24...	1506	10.0	11.2	16	7.1	9.6	102	652
24...	1507	11.0	9.8	16	7.0	9.7	100	652
24...	1508	12.0	8.6	16	7.0	9.4	94	652
24...	1509	15.0	7.1	16	6.9	9.4	91	652
24...	1510	20.0	6.7	16	6.8	9.3	89	652
24...	1511	30.0	5.9	17	6.8	9.2	86	652
24...	1512	40.0	5.5	17	6.7	9.1	84	652
24...	1513	50.0	5.1	17	6.7	9.0	83	652
24...	1514	60.0	4.9	17	6.6	9.0	82	652
24...	1515	70.0	4.8	17	6.6	9.0	82	652
24...	1516	80.0	4.6	17	6.6	8.9	81	652
24...	1517	85.0	4.6	17	6.5	8.6	78	652
AUG								
21...	1500	1.0	19.6	18	7.0	8.0	103	651
21...	1501	3.0	19.0	18	7.1	8.1	103	651
21...	1502	5.0	18.8	18	7.1	8.1	102	651
21...	1503	7.0	18.7	18	7.1	8.1	102	651
21...	1504	8.0	18.6	18	7.1	8.1	102	651
21...	1505	9.0	16.3	17	7.1	8.9	107	651
21...	1506	10.0	13.6	16	7.1	9.6	108	651
21...	1507	11.0	9.0	16	7.2	9.4	95	651
21...	1508	12.0	8.3	16	7.0	9.4	94	651
21...	1509	15.0	7.2	16	7.0	9.1	88	651
21...	1510	20.0	6.8	16	6.9	9.0	86	651
21...	1511	30.0	6.0	17	6.8	8.8	83	651
21...	1512	40.0	5.3	17	6.7	8.9	82	651
21...	1513	50.0	5.0	17	6.7	8.8	81	651
21...	1514	60.0	4.9	17	6.6	8.7	80	651
21...	1515	70.0	4.8	17	6.6	8.6	78	651
21...	1516	80.0	4.7	17	6.6	8.6	78	651
21...	1517	90.0	4.6	20	6.4	6.1	55	651
21...	1518	91.0	4.6	21	6.4	5.3	48	651
SEP								
19...	1355	1.0	16.2	18	7.3	8.8	105	650
19...	1356	3.0	16.2	18	7.3	8.7	104	650
19...	1357	5.0	16.0	18	7.4	8.7	104	650
19...	1358	7.0	15.4	18	7.4	8.8	103	650
19...	1359	9.0	14.9	18	7.3	8.7	101	650
19...	1400	11.0	12.1	17	7.3	8.8	96	650
19...	1401	13.0	7.8	16	7.3	8.8	87	650
19...	1402	15.0	7.2	16	7.1	8.8	86	650
19...	1403	20.0	6.5	17	7.0	8.6	82	650
19...	1404	30.0	5.9	17	6.9	8.6	81	650
19...	1405	40.0	5.3	17	6.9	8.6	80	650
19...	1406	50.0	5.1	17	6.8	8.5	78	650
19...	1407	60.0	4.9	17	6.7	8.4	77	650
19...	1408	70.0	4.8	17	6.7	8.1	74	650
19...	1409	80.0	4.6	18	6.6	7.4	67	650
19...	1410	90.0	4.6	20	6.5	5.8	53	650

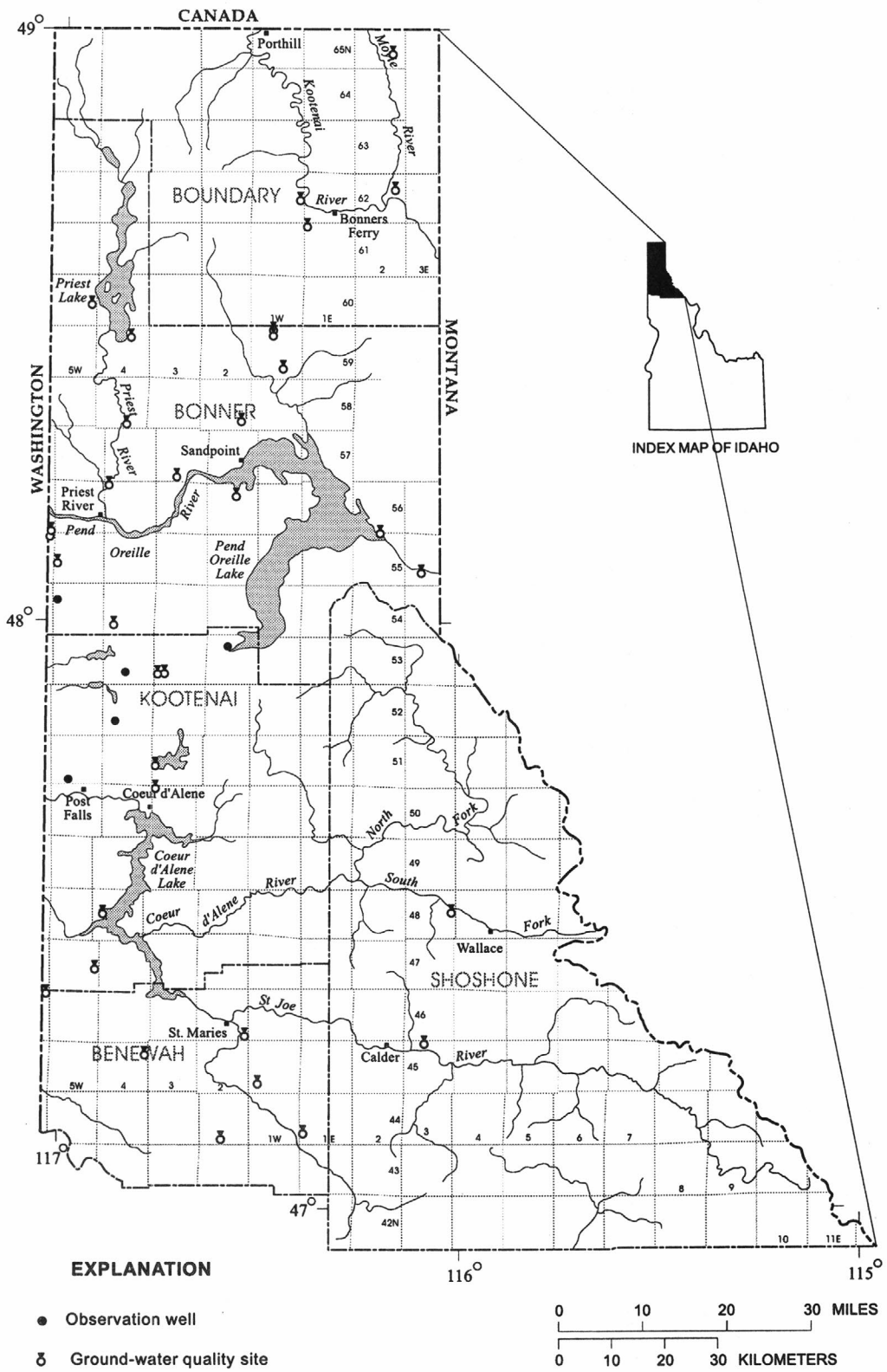


Figure 19. Locations of observation wells and ground-water-quality sites in north Idaho.

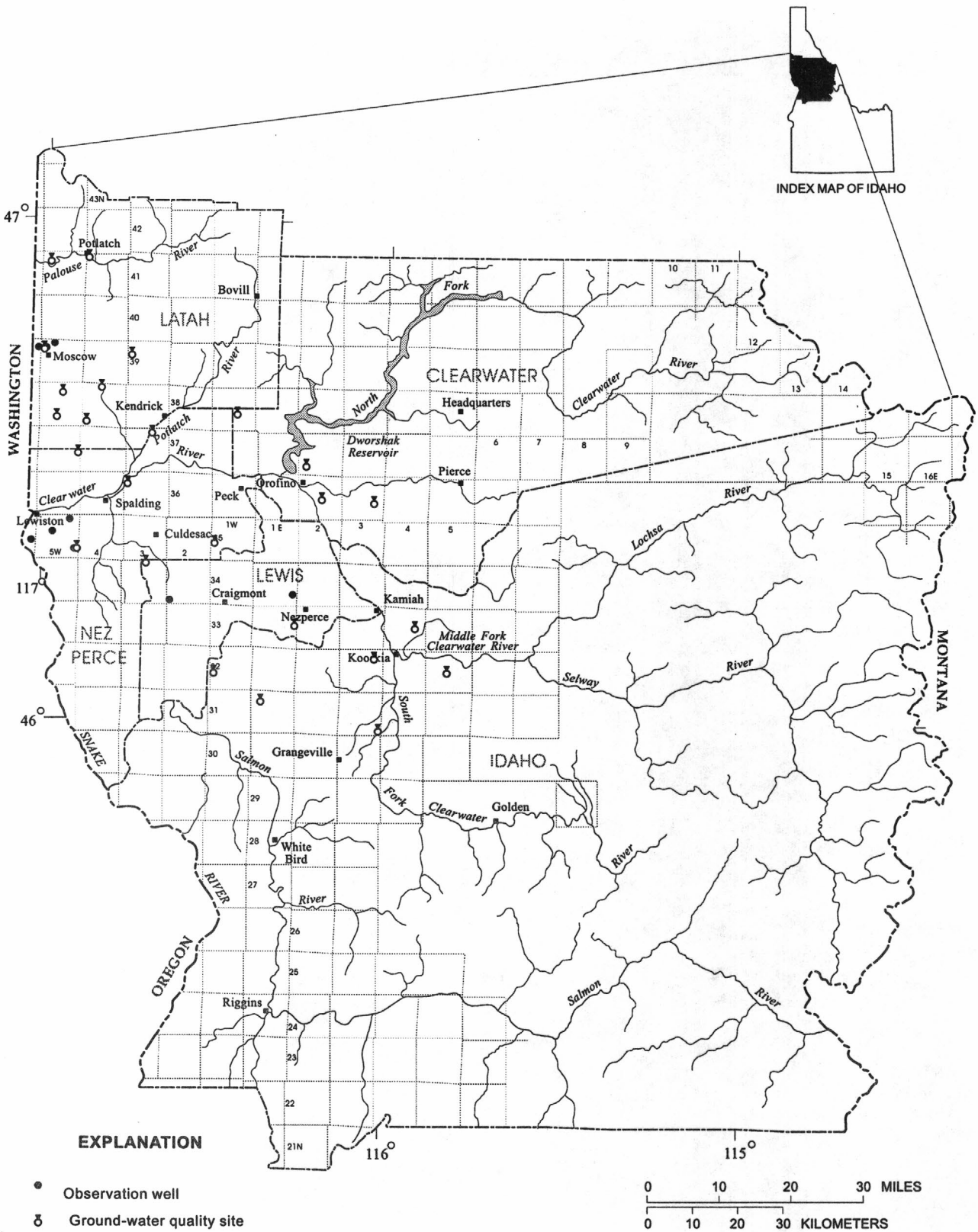


Figure 20. Locations of observation wells and ground-water-quality sites in north-central Idaho.

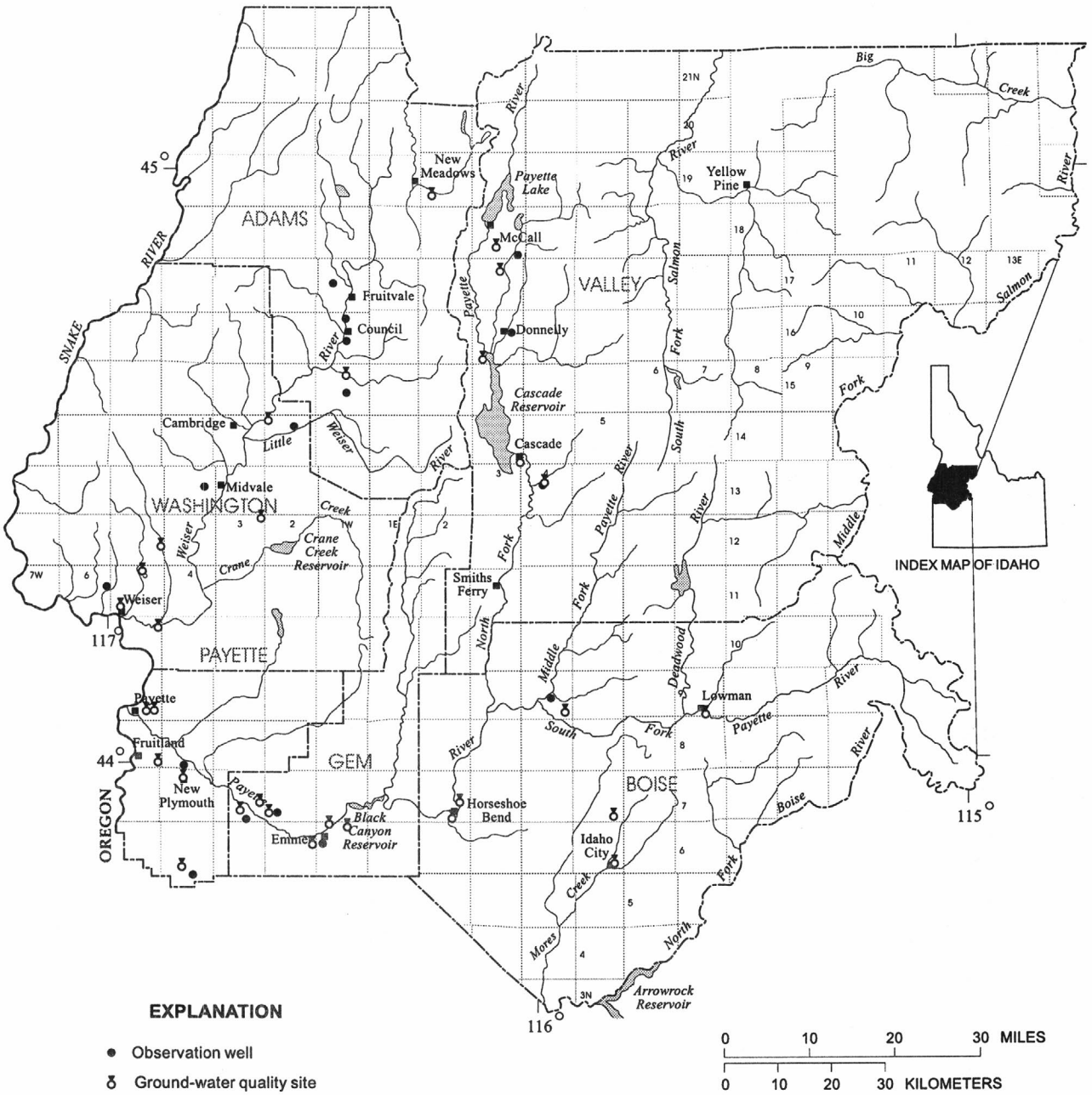


Figure 21. Locations of observation wells and ground-water-quality sites in west-central Idaho.

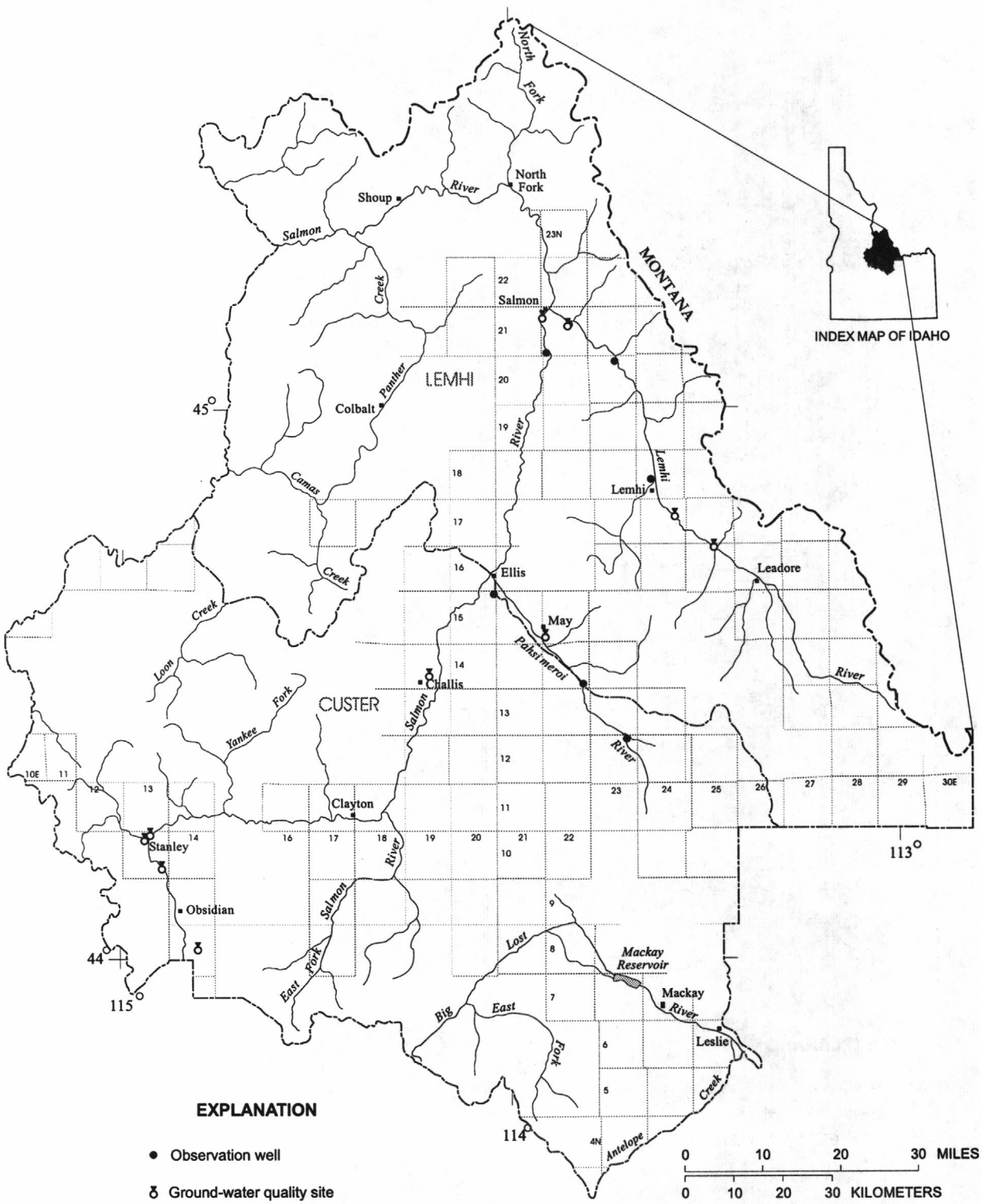


Figure 22. Locations of observation wells and ground-water-quality sites in east-central Idaho.

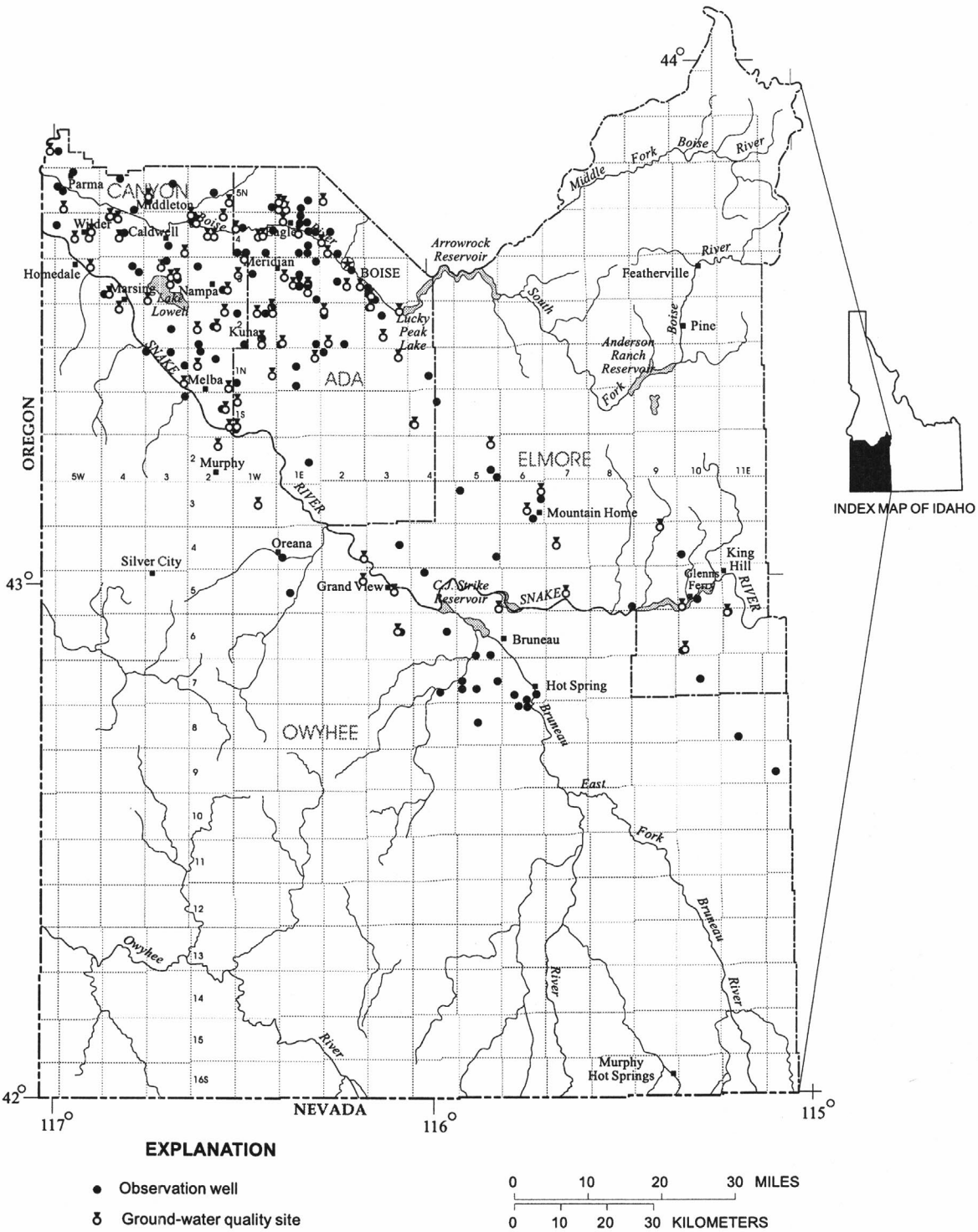


Figure 23. Locations of observation wells and ground-water-quality sites in southwest Idaho.

WELL NAME 05N 01W 36ABB1 SITE NUMBER 434406116240801

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 105 FT, CASED TO 105 FT. LATITUDE 43°44'47", LONGITUDE 116°24'08". LSD ABOUT 2,618 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE, 1.20 FT ABOVE LSD (SINCE APR 28, 1997).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 68.84 FEET BELOW LAND SURFACE DATUM SEP 16, 1986.
LOWEST WATER LEVEL 78.17 FEET BELOW LAND SURFACE DATUM MAR 28, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	72.05R	DEC 14	74.19	FEB 15	76.58	APR 11	77.82	JUN 13	76.18	AUG 17	74.50R
NOV 16	72.96	JAN 18	75.33	MAR 21	77.26	MAY 16	78.22R	JUL 11	75.11	SEP 26	73.73

WELL NAME 05N 01E 26DCD1 SITE NUMBER 434412116175801

DRILLED DOMESTIC-IRRIGATION GEOTHERMAL ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 TO 10 IN, DEPTH 688 FT, 12-IN CASING TO 340 FT, 8-IN CASING 321-688 FT, PERFORATED 633-688 FT. LATITUDE 43°44'23", LONGITUDE 116°17'57". LSD ABOUT 2,750 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 3.00 FT ABOVE LSD (SINCE JUL 25, 1969).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 8.63 FEET BELOW LAND SURFACE DATUM MAR 22, 1999.
LOWEST WATER LEVEL 18.03 FEET BELOW LAND SURFACE DATUM AUG 24, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	15.09P	DEC 17	12.53P	FEB 15	11.34P	APR 11	10.32P	JUN 13	11.52P	AUG 17	16.46P
NOV 16	13.14P	JAN 18	11.80P	MAR 21	10.30P	MAY 16	9.47P	JUL 11	11.75P	SEP 28	15.43P

WELL NAME 05N 01E 34DBB1 SITE NUMBER 434341116192001

DRILLED UNUSED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 175 FT, CASED TO 175 FT, PERFORATED 0-175 FT. LATITUDE 43°43'41", LONGITUDE 116°19'20". LSD ABOUT 2,680 FT ABOVE SEA LEVEL. MP NO. 1 BOTTOM EDGE OF 1/4-IN HOLE IN CASING SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE DEC 16, 1966).

RECORDS AVAILABLE 1966 TO CURRENT YEAR.
HIGHEST WATER LEVEL 23.33 FEET BELOW LAND SURFACE DATUM SEP 25, 1984.
LOWEST WATER LEVEL 31.84 FEET BELOW LAND SURFACE DATUM MAR 26, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 16	28.64	JAN 18	30.17	MAR 21	30.61	MAY 16	31.55	JUL 11	30.43	SEP 28	32.84

WELL NAME 04N 01W 13DDB1 SITE NUMBER 434048116235101

DRILLED STOCK ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 3 IN, DEPTH 130 FT, CASING DEPTH NOT AVAILABLE. LATITUDE 43°40'48", LONGITUDE 116°23'51". LSD 2,524.96 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 3-IN CASING, 1.30 FT ABOVE LSD (SINCE MAR 02, 1950).

RECORDS AVAILABLE 1950 TO MAR 21, 2000.
HIGHEST WATER LEVEL +10.72 FEET ABOVE LAND SURFACE DATUM OCT 22, 1952.
LOWEST WATER LEVEL +2.85 FEET ABOVE LAND SURFACE DATUM APR 05, 1993.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 21 +6.11

WELL NAME 04N 01W 17BBDB1 SITE NUMBER 434124116292101

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 149 FT, CASED TO 140 FT. LATITUDE 43°41'24", LONGITUDE 116°29'21". LSD ABOUT 2,470 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE SOUTH SIDE, 1.65 FT ABOVE LSD (SINCE AUG 22, 1996)

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL +2.25 FEET ABOVE LAND SURFACE DATUM APR 28, 1997.
LOWEST WATER LEVEL + .12 FEET ABOVE LAND SURFACE DATUM JUL 11, 2000.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	+1.93	DEC 14	+1.50	FEB 15	+1.40	APR 11	+1.20	JUN 13	+1.32	AUG 15	+.79
NOV 16	+1.77	JAN 18	+1.22	MAR 21	+1.43	MAY 16	+1.25	JUL 11	+.12	SEP 26	+1.49

ADA COUNTY--continued

WELL NAME 04N 01W 17BBDC1 SITE NUMBER 434120116292101

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 4 IN, DEPTH 424 FT, CASED TO 381 FT. LATITUDE 43°41'20", LONGITUDE 116°29'21". LSD ABOUT 2,468 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF CONCRETE PAD AT LSD (SINCE APR 05, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL +44.00 FEET ABOVE LAND SURFACE DATUM MAR 26, 1997.
LOWEST WATER LEVEL +31.00 FEET ABOVE LAND SURFACE DATUM AUG 15, 2000.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	+32.42	DEC 14	+42.63	FEB 15	+43.13	APR 11	+41.63	JUN 13	+34.14	AUG 15	+31.00
NOV 16	+40.22	JAN 18	+42.83	MAR 21	+43.62	MAY 16	+37.52	JUL 11	+37.39	SEP 26	+33.85

WELL NAME 04N 01W 31AAA1 SITE NUMBER 433852116293401

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 462 FT, CASED TO 455 FT. LATITUDE 43°38'52", LONGITUDE 116°29'34". LSD ABOUT 2,508 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 6-IN CASING PLUG, 3.50 FT ABOVE LSD (SINCE APR 28, 1967).

RECORDS AVAILABLE 1967-1971, 1992 TO CURRENT YEAR.
HIGHEST WATER LEVEL +30.62 FEET ABOVE LAND SURFACE DATUM DEC 04, 1968.
LOWEST WATER LEVEL +11.72 FEET ABOVE LAND SURFACE DATUM SEP 30, 1992.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	+18.48	DEC 17	+19.42	FEB 16	+19.93	APR 12	+23.93	JUN 14	+14.04	AUG 16	+14.00
NOV 18	+22.22	JAN 20	+20.54	MAR 23	+23.33	MAY 18	+20.94	JUL 14	+14.54	SEP 27	+19.20

WELL NAME 04N 01W 32BBBC1 SITE NUMBER 433849116293201

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 65 FT, 6-IN CASING TO 62 FT, 5-IN CASING 53-60 FT, 5-IN SCREEN 60-65 FT. LATITUDE 43°38'49", LONGITUDE 116°29'32". LSD ABOUT 2,510 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTH SIDE, 2.50 FT ABOVE LSD (SINCE MAR 20, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 5.79 FEET BELOW LAND SURFACE DATUM AUG 25, 1997.
LOWEST WATER LEVEL 13.76 FEET BELOW LAND SURFACE DATUM APR 22, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	8.35	DEC 17	10.32	FEB 16	12.62	APR 22	13.76	JUN 14	9.94	AUG 16	7.14
NOV 18	9.38	JAN 20	11.06	MAR 23	12.86	MAY 18	11.42	JUL 14	7.94	SEP 27	7.04

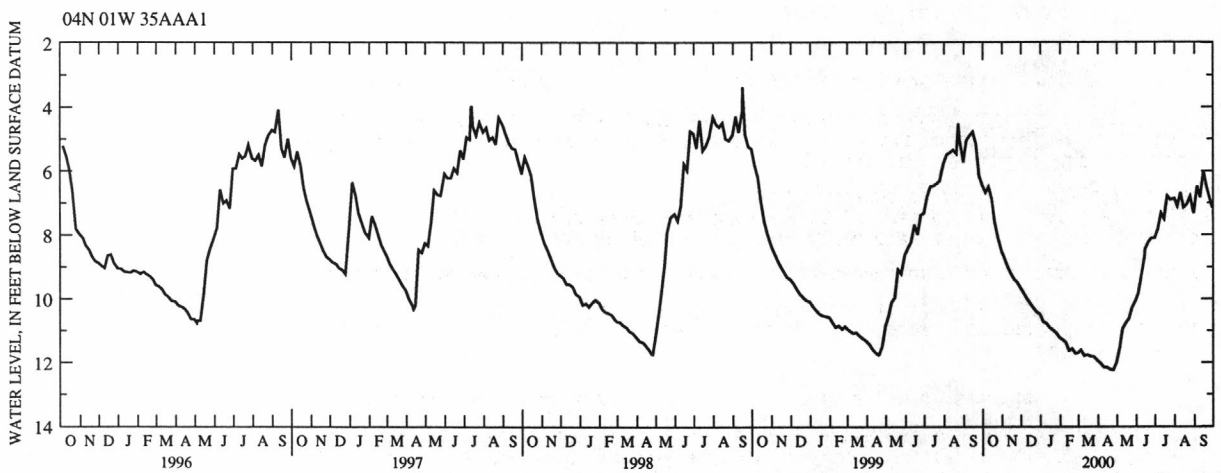
WELL NAME 04N 01W 35AAA1 SITE NUMBER 433852116244801

DUG UNUSED ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 24 IN, DEPTH 44 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°38'52", LONGITUDE 116°24'48". LSD 2,570.60 FT ABOVE SEA LEVEL. WATER LEVEL INFLUENCED BY LOCAL IRRIGATION. JUL 24, 1973, WELL HAD FILLED IN TO A DEPTH OF 32.2 FT. MEASUREMENTS MADE OCT 13, 1933 THROUGH MAR 01, 1947 AND NOV 04, 1947 THROUGH MAR 11, 1951 BY NAMPA-MERIDIAN IRRIGATION DISTRICT. RECORDER INSTALLED MAY 15, 1953. MP NO. 1 EDGE OF CASING NORTH SIDE, 1.30 FT ABOVE LSD (SINCE MAY 15, 1953).

RECORDS AVAILABLE 1933 TO CURRENT YEAR.
HIGHEST WATER LEVEL 1.73 FEET BELOW LAND SURFACE DATUM JUL 10, 1974.
LOWEST WATER LEVEL 14.31 FEET BELOW LAND SURFACE DATUM APR 16, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 05	6.68	DEC 10	9.99	FEB 15	11.63	APR 20	12.22	JUN 25	8.11	AUG 31	7.32
10	6.50	15	10.13	20	11.57	25	12.24	30	8.10	SEP 05	6.48
15	6.88	20	10.28	25	11.72	30	12.02	JUL 05	7.84	10	6.83
20	7.60	25	10.40	29	11.71	MAY 05	11.54	10	7.33	15	6.04
25	8.10	31	10.49	MAR 05	11.61	10	10.93	15	7.51	16	6.04
31	8.51	JAN 05	10.72	10	11.79	15	10.76	20	6.79	20	6.47
NOV 05	8.76	10	10.77	15	11.76	20	10.62	25	6.90	25	6.85
10	9.01	15	10.90	20	11.81	25	10.28	31	6.86	30	7.16
15	9.23	20	10.97	25	11.82	31	10.04	AUG 05	7.10		
20	9.39	25	11.06	31	11.95	JUN 04	9.83	10	6.68		
25	9.49	31	11.22	APR 05	12.03	14	8.70	15	7.15		
30	9.66	FEB 05	11.29	10	12.15	15	8.45	20	7.05		
DEC 05	9.82	10	11.37	15	12.16	20	8.23	25	6.80		



WELL NAME 04N 01E 03DAD1 SITE NUMBER 434243116185001

DRILLED UNUSED ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 250 FT, CASED TO 143 FT, PERFORATED 100-140 FT. LATITUDE 43°42'43", LONGITUDE 116°18'50". LSD ABOUT 2,400 FT ABOVE SEA LEVEL. RECORDER INSTALLED AUG 07, 1989 TO JUL 15, 1996. MP NO. 1 EDGE OF CASING NORTH SIDE, 1.00 FT ABOVE LSD (SINCE AUG 07, 1989).

RECORDS AVAILABLE 1989 TO CURRENT YEAR.
HIGHEST WATER LEVEL 57.22 FEET BELOW LAND SURFACE DATUM FEB 01, 1990.
LOWEST WATER LEVEL 69.54 FEET BELOW LAND SURFACE DATUM SEP 07, 1995.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	66.73	DEC 17	65.26	FEB 15	64.78	APR 11	64.98	JUN 13	66.40	AUG 17	67.39
NOV 16	65.44	JAN 18	65.55	MAR 21	64.96	MAY 16	65.07	JUL 11	65.46	SEP 28	66.95

WELL NAME 04N 01E 10ACB2 SITE NUMBER 434206116192001

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 289 FT, 6-IN CASING TO 289 FT. LATITUDE 43°42'06", LONGITUDE 116°19'20". LSD ABOUT 2,636 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING EAST SIDE, 0.40 FT ABOVE LSD (SINCE OCT 10, 1986).

RECORDS AVAILABLE 1986, 1991 TO CURRENT YEAR.
HIGHEST WATER LEVEL 55.43 FEET BELOW LAND SURFACE DATUM OCT 10, 1986.
LOWEST WATER LEVEL 67.50 FEET BELOW LAND SURFACE DATUM APR 11, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	63.10	DEC 17	65.25	FEB 15	66.47	APR 11	67.50	JUN 13	64.48	AUG 17	63.10
NOV 16	64.27	JAN 18	66.01	MAR 21	67.00	MAY 16	66.97	JUL 11	63.62	SEP 26	65.25R

WELL NAME 04N 01E 11BBB1 SITE NUMBER 434223116183901

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 203 FT, 6-IN CASING TO 135 FT, PERFORATED 120-130 FT, GRAVEL PACKED. LATITUDE 43°42'23", LONGITUDE 116°18'39". LSD ABOUT 2,690 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 0.30 FT ABOVE LSD (SINCE JUL 30, 1969).

RECORDS AVAILABLE 1969-1970, 1986, 1991, 1993 TO CURRENT YEAR.
HIGHEST WATER LEVEL 101.15 FEET BELOW LAND SURFACE DATUM OCT 14, 1986.
LOWEST WATER LEVEL 117.97 FEET BELOW LAND SURFACE DATUM SEP 28, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	111.95	DEC 17	108.10	FEB 15	107.82	APR 11	107.70	JUN 13	110.75	AUG 17	114.97
NOV 16	109.57	JAN 18	107.42	MAR 21	107.63	MAY 16	109.20	JUL 11	113.48	SEP 28	117.97

WELL NAME 04N 01E 13BDDB1 SITE NUMBER 434109116170701

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 78 FT, 6-IN CASING TO 70 FT. LATITUDE 43°41'09", LONGITUDE 116°17'07". LSD ABOUT 2,620 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTH SIDE, 0.75 FT ABOVE LSD (SINCE NOV 03, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 19.39 FEET BELOW LAND SURFACE DATUM SEP 28, 2000.
LOWEST WATER LEVEL 26.82 FEET BELOW LAND SURFACE DATUM MAR 23, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 03	21.05	JAN 20	24.41	MAR 23	26.82	MAY 16	21.83	JUL 13	22.27	SEP 28	19.39
DEC 17	24.80	FEB 15	24.61	APR 11	26.45	JUN 15	25.92	AUG 17	19.62		

WELL NAME 04N 01E 14CCB1 SITE NUMBER 434048116184401

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 357 FT, 2-IN PIEZOMETER 0-345 FT, PERFORATED 300-310 FT, 330-340 FT, CEMENT GROUT 249-260 FT. LATITUDE 43°40'48", LONGITUDE 116°18'44". LSD ABOUT 2,582 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.55 FT ABOVE LSD (SINCE SEP 14, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL .31 FEET BELOW LAND SURFACE DATUM OCT 22, 1999.
LOWEST WATER LEVEL 3.88 FEET BELOW LAND SURFACE DATUM JUL 13, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	.31	DEC 17	2.59	FEB 15	1.77	APR 11	2.22	JUN 15	3.54	AUG 17	2.62
NOV 16	2.03	JAN 20	1.50	MAR 23	1.71	MAY 16	1.85	JUL 13	3.88	SEP 28	3.80

WELL NAME 04N 01E 14CCB2 SITE NUMBER 434048116184402

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 357 FT, 2-IN PIEZOMETER 0-295 FT, PERFORATED 270-290 FT, CEMENT GROUT 249-260 FT. LATITUDE 43°40'48", LONGITUDE 116°18'44". LSD ABOUT 2,582 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.35 FT ABOVE LSD (SINCE SEP 14, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL .52 FEET BELOW LAND SURFACE DATUM OCT 22, 1999.
LOWEST WATER LEVEL 4.15 FEET BELOW LAND SURFACE DATUM JUL 13, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	.52	DEC 17	2.93	FEB 15	2.00	APR 11	2.44	JUN 15	3.76	AUG 17	3.00
NOV 16	2.38	JAN 20	1.75	MAR 23	1.99	MAY 16	2.05	JUL 13	4.15	SEP 28	4.00

WELL NAME 04N 01E 14CCB3 SITE NUMBER 434048116184403

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 255 FT, 2-IN PIEZOMETER 0-255 FT, PERFORATED 210-220 FT, 240-250 FT, CEMENT GROUT 177-191 FT. LATITUDE 43°40'48", LONGITUDE 116°18'44". LSD ABOUT 2,582 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.50 FT ABOVE LSD (SINCE SEP 14, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL .74 FEET BELOW LAND SURFACE DATUM OCT 22, 1999.
LOWEST WATER LEVEL 4.41 FEET BELOW LAND SURFACE DATUM SEP 28, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	.74	DEC 17	3.22	FEB 15	2.23	APR 11	2.62	JUN 15	4.01	AUG 17	3.25
NOV 16	2.66	JAN 20	1.99	MAR 23	2.22	MAY 16	2.26	JUL 13	4.41	SEP 28	4.24

WELL NAME 04N 01E 14CCB4 SITE NUMBER 434048116184404

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 177 FT, 2-IN PIEZOMETER 0-177 FT, PERFORATED 130-140 FT, 150-170 FT. LATITUDE 43°40'48", LONGITUDE 116°18'44". LSD ABOUT 2,582 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.55 FT ABOVE LSD (SINCE SEP 14, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 3.43 FEET BELOW LAND SURFACE DATUM OCT 22, 1999.
LOWEST WATER LEVEL 5.63 FEET BELOW LAND SURFACE DATUM DEC 16, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	3.43	DEC 16	5.63	FEB 15	4.77	APR 11	3.49	JUN 15	4.52	AUG 17	4.53
NOV 16	5.12	JAN 20	4.45	MAR 23	4.62	MAY 16	3.47	JUL 13	4.71	SEP 28	4.95

WELL NAME 04N 01E 26CDD1 SITE NUMBER 433856116181501

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 105 FT, CASED TO 96 FT. LATITUDE 43°38'56", LONGITUDE 116°18'15". LSD ABOUT 2,660 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 1.40 FT ABOVE LSD (SINCE AUG 17, 1992).

RECORDS AVAILABLE 1992, 1996, 1998 TO CURRENT YEAR.
HIGHEST WATER LEVEL 24.45 FEET BELOW LAND SURFACE DATUM SEP 20, 1996.
LOWEST WATER LEVEL 33.00 FEET BELOW LAND SURFACE DATUM AUG 17, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	25.91	DEC 17	27.60	FEB 17	29.54	APR 13	30.00	JUN 15	31.00	AUG 17	29.70
NOV 18	26.65	JAN 20	28.78	MAR 23	30.16	MAY 18	30.33	JUL 13	31.85	SEP 29	27.30

WELL NAME 04N 01E 34ACBC1 SITE NUMBER 433837116192301

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 9 TO 6 IN, DEPTH 476 FT, 6-IN CASING TO 476 FT. LATITUDE 43°38'37", LONGITUDE 116°19'23". LSD ABOUT 2,644 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE EAST SIDE, 1.00 FT ABOVE LSD (SINCE JUL 19, 1996).

RECORDS AVAILABLE 1993 TO CURRENT YEAR.
HIGHEST WATER LEVEL 10.87 FEET BELOW LAND SURFACE DATUM OCT 29, 1998.
LOWEST WATER LEVEL 23.74 FEET BELOW LAND SURFACE DATUM JUL 13, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	15.06	DEC 17	13.90	FEB 17	15.50	APR 13	17.95	JUN 15	21.82	AUG 17	21.70
NOV 18	12.77	JAN 20	14.76	MAR 23	16.26	MAY 18	17.45	JUL 13	23.74	SEP 29	17.11

WELL NAME 04N 01E 35CCA1 SITE NUMBER 433813116183201

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 108 FT, CASED TO 90 FT. LATITUDE 43°38'13", LONGITUDE 116°18'32". LSD ABOUT 2,660 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING EAST SIDE, 1.10 FT ABOVE LSD (SINCE JUL 05, 1989).

RECORDS AVAILABLE 1989 TO CURRENT YEAR.
HIGHEST WATER LEVEL 8.27 FEET BELOW LAND SURFACE DATUM SEP 11, 1989.
LOWEST WATER LEVEL 24.47 FEET BELOW LAND SURFACE DATUM APR 13, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	20.02	DEC 17	21.08	FEB 17	23.22	APR 13	24.47	JUN 15	24.30	AUG 17	23.89
NOV 18	19.85	JAN 20	22.37	MAR 23	23.96	MAY 18	24.33	JUL 13	24.04	SEP 29	20.40

WELL NAME 04N 02E 17CABC1 SITE NUMBER 434103116143601

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, ORIGINAL DEPTH 300 FT, JUN 1968, WELL DEEPENED TO 525 FT, 6-IN CASING 0-110 FT. LATITUDE 43°40'58", LONGITUDE 116°14'48". LSD ABOUT 3,020 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING AT LSD (SINCE NOV 03, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 165.62 FEET BELOW LAND SURFACE DATUM MAY 16, 2000.
LOWEST WATER LEVEL 178.03 FEET BELOW LAND SURFACE DATUM AUG 17, 2000

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 03	175.50	JAN 20	176.51	MAR 23	175.38	MAY 16	165.62	JUL 13	173.24	SEP 28	176.14
DEC 17	176.40	FEB 15	175.49	APR 11	177.80	JUN 15	171.20	AUG 17	178.03		

WELL NAME 04N 02E 33ACAC1 SITE NUMBER 433836116132701

DRILLED DOMESTIC-IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6-IN, DEPTH 53 FT, CASED TO 53 FT, PERFORATED 47-52 FT. LATITUDE 43°38'36", LONGITUDE 116°13'10". LSD ABOUT 2,695 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING EAST SIDE, 1.35 FT ABOVE LSD (SINCE AUG 06, 1992).

RECORDS AVAILABLE 1992, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 14.34 FEET BELOW LAND SURFACE DATUM SEP 23, 1996.
LOWEST WATER LEVEL 20.21 FEET BELOW LAND SURFACE DATUM APR 11, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	15.37	DEC 17	17.56	FEB 15	18.58	APR 11	20.21	JUN 15	18.00	AUG 17	17.48
NOV 18	16.66	JAN 20	18.24	MAR 23	18.27	MAY 16	16.70	JUL 13	17.65P	SEP 28	15.70

WELL NAME 03N 01W 16DDD1 SITE NUMBER 433528116271101

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 190 FT, CASED TO 183 FT, SCREENED 183-188 FT. LATITUDE 43°35'28", LONGITUDE 116°27'11". LSD ABOUT 2,677 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 0.80 FT ABOVE LSD (SINCE OCT 09, 1970).

RECORDS AVAILABLE 1969-1970, 1993, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 115.65 FEET BELOW LAND SURFACE DATUM OCT 09, 1970.
LOWEST WATER LEVEL 124.19 FEET BELOW LAND SURFACE DATUM MAR 23, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	119.41	DEC 15	120.70	FEB 16	122.85	APR 12	123.52	JUN 14	121.82	AUG 16	121.34
NOV 17	119.97	JAN 20	121.50	MAR 23	124.19	MAY 17	122.42	JUL 12	121.75	SEP 27	120.70

WELL NAME 03N 01E 01DAA2 SITE NUMBER 433736116162802

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 420 FT, 8-IN CASING TO 268 FT, 5-IN CASING 237-420 FT, SCREEN 405-410 FT, 412-417 FT. LATITUDE 43°37'36", LONGITUDE 116°16'28". LSD ABOUT 2,690 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE SOUTHWEST SIDE, 1.60 FT ABOVE LSD (SINCE AUG 18, 1992).

RECORDS AVAILABLE 1992 TO CURRENT YEAR.
HIGHEST WATER LEVEL 14.16 FEET BELOW LAND SURFACE DATUM JAN 24, 1994.
LOWEST WATER LEVEL 35.43 FEET BELOW LAND SURFACE DATUM JUN 24, 1993.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	17.83	DEC 17	19.89	FEB 17	18.78	APR 13	21.12	JUN 15	27.23	AUG 17	29.10
NOV 18	17.64	JAN 20	18.38	MAR 23	19.13	MAY 18	23.67	JUL 13	31.32	SEP 29	26.44

WELL NAME 03N 01E 15CBD1 SITE NUMBER 433544116194601

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 90 FT, CASED TO 85 FT, SCREENED 85-90 FT. LATITUDE 43°35'44", LONGITUDE 116°19'46". LSD ABOUT 2,680 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE AUG 04, 1992).

RECORDS AVAILABLE 1992, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 21.07 FEET BELOW LAND SURFACE DATUM SEP 19, 1996.
LOWEST WATER LEVEL 33.70 FEET BELOW LAND SURFACE DATUM MAY 18, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	27.87	DEC 16	29.46	FEB 17	32.30	APR 13	34.12	JUN 15	32.45	AUG 17	28.52
NOV 18	27.82	JAN 20	31.13	MAR 23	33.57	MAY 18	33.70	JUL 14	30.96	SEP 29	26.00

WELL NAME 03N 01E 15CDA1 SITE NUMBER 433537116192501

DRILLED PUBLIC SUPPLY ARTESIAN WELL IS SEDIMENTS FOF QUATERNARY AGE, DIAM 12 TO 10 IN, DEPTH 335 FT, 12-IN CASING TO 301 FT, SCREENED 301-335 FT. LATITUDE 43°35'37", LONGITUDE 116°19'25". LSD ABOUT 2,684 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF ACCESS HOLE IN WELL SEAL, 1.37 FT ABOVE LSD (SINCE MAR 21, 2000).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 11.50 FEET BELOW LAND SURFACE DATUM DEC 17, 1996.
LOWEST WATER LEVEL 38.11 FEET BELOW LAND SURFACE DATUM JUL 14, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	16.88	DEC 16	15.58	FEB 17	21.75	APR 13	27.72	JUN 15	30.93	AUG 17	32.27
NOV 19	15.12	JAN 20	16.84	MAR 21	26.56	MAY 23	27.97	JUL 14	38.11	SEP 28	25.51

WELL NAME 03N 01E 16BCA1 SITE NUMBER 433605116210001

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 15 TO 12 IN, DEPTH 902 FT, 14-IN CASING TO 40 FT, 8-IN CASING 0-792 FT, 817-857 FT, 877-887 FT, SCREENED 792-812 FT, 857-877 FT. LATITUDE 43°36'05", LONGITUDE 116°21'00". LSD ABOUT 2,660 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 2-IN ACCESS PIPE IN WELL CAP, 1.95 FT ABOVE LSD (SINCE DEC 01, 1998).

RECORDS AVAILABLE 1998 TO CURRENT YEAR.
HIGHEST WATER LEVEL +.01 FEET ABOVE LAND SURFACE DATUM NOV 16, 1999.
LOWEST WATER LEVEL 19.70 FEET BELOW LAND SURFACE DATUM JUL 11, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, (READINGS ABOVE LAND SURFACE INDICATED BY "+")
WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	2.51	DEC 14	.43	FEB 15	2.52	APR 11	4.91	JUN 13	8.05	AUG 15	10.15
NOV 16	+.01	JAN 18	1.44	MAR 21	3.67	MAY 16	5.48	JUL 11	19.70	SEP 26	2.87

WELL NAME 03N 01E 23DDD1 SITE NUMBER 433433116173801

DRILLED OBSERVATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 3 IN, DEPTH 37.7 FT, 3-IN CASING TO 5 FT, 1 1/4-IN CASING 0-40 FT, PERFORATED 25-40 FT. LATITUDE 43°34'33", LONGITUDE 116°17'38". LSD 2,724.72 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF 6-IN CASING EAST SIDE, 0.75 FT ABOVE LSD (SINCE JUN 30, 1990).

RECORDS AVAILABLE 1977-1984, 1989 TO CURRENT YEAR.
HIGHEST WATER LEVEL 4.36 FEET BELOW LAND SURFACE DATUM OCT 09, 1984.
LOWEST WATER LEVEL 31.00 FEET BELOW LAND SURFACE DATUM APR 20, 1993.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	10.54	DEC 16	14.75	FEB 17	19.69	APR 13	24.16	JUN 15	23.15	AUG 17	15.95
NOV 18	12.78	JAN 20	17.41	MAR 23	22.25	MAY 18	24.52	JUL 14	20.55	SEP 29	12.35

WELL NAME 03N 01E 36DDB1 SITE NUMBER 433256116163301

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 152 FT, 6-IN CASING TO 146 FT, 5-IN CASING 142-147 FT, SCREENED 147-152 FT. LATITUDE 43°32'56", LONGITUDE 116°16'33". LSD ABOUT 2,810 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTHEAST SIDE, 1.00 FT ABOVE LSD (SINCE NOV 03, 1989).

RECORDS AVAILABLE 1989 TO CURRENT YEAR.
HIGHEST WATER LEVEL 84.40 FEET BELOW LAND SURFACE DATUM SEP 19, 1996.
LOWEST WATER LEVEL 105.04 FEET BELOW LAND SURFACE DATUM APR 16, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	86.11	DEC 16	93.75	FEB 17	101.68	APR 13	98.20	JUN 15	92.25	AUG 17	102.30R
NOV 18	90.37	JAN 25	97.42	MAR 23	94.14	MAY 18	92.79	JUL 13	90.48	SEP 28	98.20

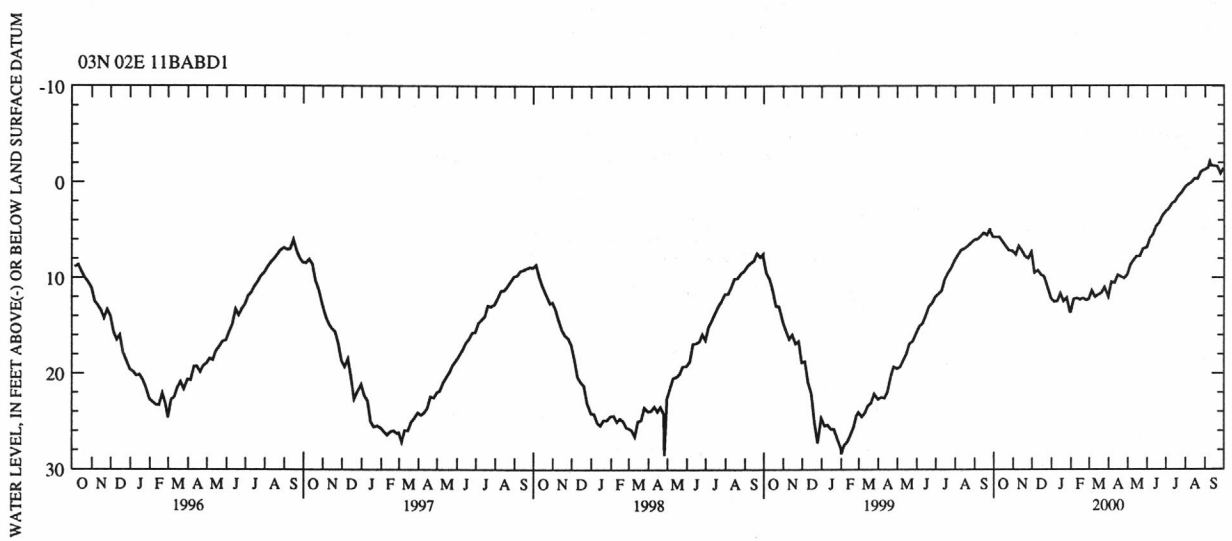
WELL NAME 03N 02E 11BABD1 SITE NUMBER 433705116110601

FORMERLY WELL NAME 03N 02E 11BAB1. DRILLED OBSERVATION GEOTHERMAL ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 7 TO 3 1/4 IN, DEPTH 1,222 FT, 7-IN CASING TO 610 FT, 3 1/4-IN CASING 610-1,222 FT, PERFORATED 781-802 FT, 1,012-1,054 FT, 1,059-1,080 FT, 1,117-1,138 FT, 1,201-1,222 FT. LATITUDE 43°37'05", LONGITUDE 116°11'06". LSD 2,742.7 FT ABOVE SEA LEVEL. RECORDER INSTALLED JAN 29, 1986. MP NO. 3 EDGE OF 7-IN CASING EAST SIDE, 2.75 FT ABOVE LSD (SINCE JAN 29, 1986).

RECORDS AVAILABLE 1986 TO CURRENT YEAR.
HIGHEST WATER LEVEL +4.65 FEET ABOVE LAND SURFACE DATUM SEP 08, 1986.
LOWEST WATER LEVEL 36.36 FEET ABOVE LAND SURFACE DATUM FEB 13, 1989.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, (READINGS ABOVE LAND SURFACE INDICATED BY "+")
WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 05	5.72	DEC 10	9.22	FEB 10	12.14	APR 15	9.72	JUN 20	4.24	AUG 25	+1.08
10	5.73	15	9.66	15	12.27	20	9.89	25	3.57	SEP 05	+1.44
15	6.21	20	9.88	20	12.14	25	10.06	30	3.09	08	+2.10
20	6.63	25	10.87	25	12.34	30	9.72	JUL 05	2.81	10	+1.71
25	7.13	31	12.15	29	12.25	MAY 05	8.66	10	2.25	15	+1.67
31	7.18	JAN 05	12.48	MAR 05	11.35	10	8.20	15	2.04	20	+1.62
NOV 05	7.55	10	12.45	10	12.02	15	7.75	20	1.50	25	+.87
10	6.68	15	11.63	15	11.79	20	7.77	25	1.14	30	+1.41
15	7.18	20	12.46	20	11.61	25	6.97	31	.55		
20	7.77	25	12.09	25	11.00	31	6.84	AUG 05	.25		
25	7.97	30	13.59	31	12.00	JUN 05	5.86	10	.06		
30	7.30	31	13.59	APR 05	10.44	10	5.48	15	+.35		
DEC 05	9.45	FEB 05	12.24	10	10.55	15	4.63	20	+.32		



WELL NAME 03N 02E 11DDD1 SITE NUMBER 433619116103001

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 68 FT, CASED TO 68 FT. LATITUDE 43°36'19", LONGITUDE 116°10'30". LSD ABOUT 2,718 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 1.40 FT ABOVE LSD (SINCE AUG 17, 1992).

RECORDS AVAILABLE 1992, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 16.98 FEET BELOW LAND SURFACE DATUM JUN 24, 1998.
LOWEST WATER LEVEL 28.40 FEET BELOW LAND SURFACE DATUM AUG 17, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	20.36	DEC 16	21.28	FEB 17	21.35	APR 13	20.33	JUN 15	18.03	AUG 17	24.30
NOV 19	21.09	JAN 20	21.40	MAR 23	20.65	MAY 18	17.87	JUL 13	18.83R	SEP 28	26.06

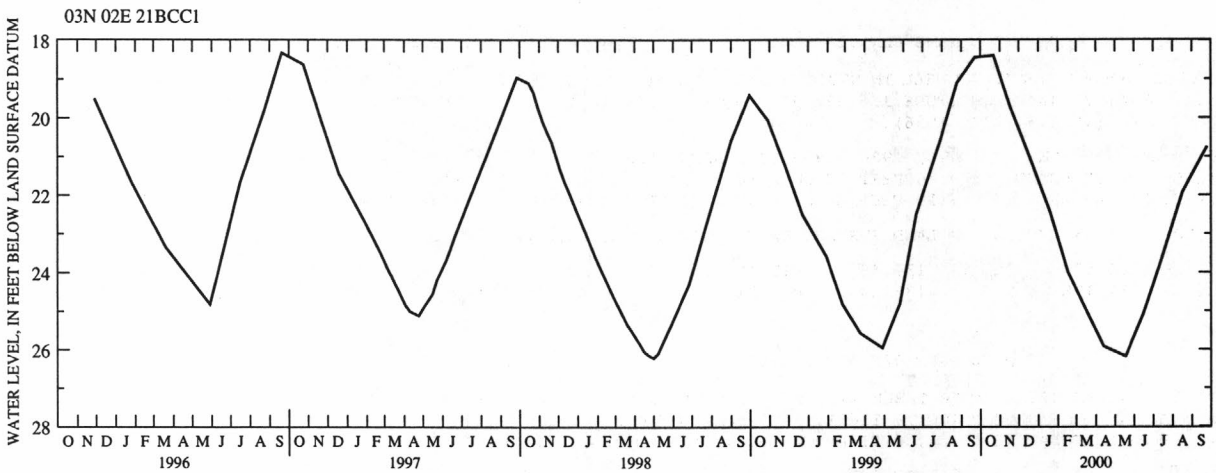
WELL NAME 03N 02E 21BCC1 SITE NUMBER 433502116135201

DRILLED UNUSED ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 58 FT, CASING DEPTH AND PERFORATED INTERVAL NOT AVAILABLE. LATITUDE 43°35'02", LONGITUDE 116°13'52". LSD 2,751.09 FT ABOVE SEA LEVEL. MP NO. 4 EDGE OF 6-IN VALVE BOX EAST SIDE AT LSD (SINCE AUG 24, 1995).

RECORDS AVAILABLE 1947 TO CURRENT YEAR.
HIGHEST WATER LEVEL .34 FEET BELOW LAND SURFACE DATUM AUG 18, 1955.
LOWEST WATER LEVEL 26.22 FEET BELOW LAND SURFACE DATUM MAY 01, 1998.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	18.39	DEC 16	20.90	FEB 17	23.99	APR 13	25.92	JUN 15	25.09	AUG 17	21.93
NOV 18	19.73	JAN 20	22.45	MAR 23	25.19	MAY 18	26.18	JUL 14	23.69	SEP 25	20.75



WELL NAME 03N 03E 19DBD1 SITE NUMBER 433449116082001

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 80 FT, 6-IN CASING TO 75 FT. LATITUDE 43°34'49", LONGITUDE 116°08'20". LSD ABOUT 2,800 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTH SIDE, 1.50 FT ABOVE LSD (SINCE MAR 20, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 48.82 FEET BELOW LAND SURFACE DATUM JUL 19, 1996.
LOWEST WATER LEVEL 52.44 FEET BELOW LAND SURFACE DATUM NOV 19, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	50.10R	DEC 16	50.77	FEB 17	51.51	APR 13	50.88	JUN 15	51.14	AUG 17	50.65
NOV 19	52.44	JAN 20	51.66	MAR 23	50.69	MAY 18	50.97	JUL 13	51.95	SEP 28	51.28

WELL NAME 03N 03E 30DDAA1 SITE NUMBER 433351116380301

DRILLED UNUSED ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DEPTH 668 FT, 8 IN CASING TO 117.5 FT, 6-IN CASING 0-246 FT. LATITUDE 43°33'51", LONGITUDE 116°08'03". LSD ABOUT 2,800 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAY 11, 1988 TO APR 07, 1994. MP NO. 1 EDGE OF 6-IN CASING NORTH SIDE, 1.30 FT ABOVE LSD (SINCE FEB 05, 1988).

RECORDS AVAILABLE 1988 TO CURRENT YEAR.
HIGHEST WATER LEVEL 143.37 FEET BELOW LAND SURFACE DATUM MAR 11, 1990.
LOWEST WATER LEVEL 188.53 FEET BELOW LAND SURFACE DATUM AUG 21, 1995.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 19	176.58	DEC 13	169.82	FEB 14	163.98	APR 10	162.42	JUN 15	169.88	AUG 18	174.85
NOV 22	174.46	JAN 18	165.90	MAR 20	162.79	MAY 15	164.90	JUL 10	172.36	SEP 26	173.60

WELL NAME 03N 03E 32BBA1 SITE NUMBER 433337116075001

DRILLED UNUSED ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 280 FT, 8-IN CASING TO 233 FT, 6-IN CASING 212-280 FT, PERFORATED 231.5-242 FT. LATITUDE 43°33'35", LONGITUDE 116°07'50". LSD ABOUT 2,823 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTHEAST SIDE, 0.85 FT ABOVE LSD (SINCE MAR 26, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 136.24 FEET BELOW LAND SURFACE DATUM APR 10, 2000.
LOWEST WATER LEVEL 169.14 FEET BELOW LAND SURFACE DATUM AUG 19, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 19	144.01	DEC 14	140.73	FEB 14	136.92	APR 10	136.24	JUN 15	138.84	AUG 18	140.07
NOV 22	142.28	JAN 18	138.55	MAR 20	136.40	MAY 15	137.14	JUL 10	140.15	SEP 26	139.93

WELL NAME 02N 01W 11ADA1 SITE NUMBER 433143116245101

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 16 IN, REPORTED 190 FT, 16-IN CASING TO 120 FT, PERFORATED 60-116 FT. LATITUDE 43°31'43", LONGITUDE 116°24'51". LSD ABOUT 2,685 FT ABOVE SEA LEVEL. MP NO. 2 BOTTOM EDGE OF HOLE IN PUMPBASE SOUTH SIDE, 0.60 FT ABOVE LSD (SINCE DEC 04, 1968).

RECORDS AVAILABLE 1966-1983, 1991 TO CURRENT YEAR.
HIGHEST WATER LEVEL 62.25 FEET BELOW LAND SURFACE DATUM SEP 28, 1982.
LOWEST WATER LEVEL 98.69 FEET BELOW LAND SURFACE DATUM MAY 19, 1978.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	74.25	DEC 15	78.23	FEB 16	83.02	APR 12	86.40	JUN 14	97.39P	AUG 16	P
NOV 18	76.04	JAN 19	80.96	MAR 22	88.55	MAY 17	89.43	JUL 12	84.67	SEP 29	76.50

WELL NAME 02N 01E 31DDC1 SITE NUMBER 432734116223901

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 9 TO 6 IN, DEPTH 248 FT, 6-IN CASING TO 225 FT. LATITUDE 43°27'34", LONGITUDE 116°22'39". LSD ABOUT 2,748 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 1.20 FT ABOVE LSD (SINCE MAR 27, 1996).

RECORDS AVAILABLE 1976, 1980, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 129.96 FEET BELOW LAND SURFACE DATUM SEP 28, 1976.
LOWEST WATER LEVEL 147.19 FEET BELOW LAND SURFACE DATUM MAY 26, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 19	136.58	DEC 13	137.48	FEB 15	138.87	APR 11	144.65R	JUN 15	140.70	AUG 02	140.25R
NOV 23	137.17R	JAN 19	138.14	MAR 21	139.08R	MAY 15	140.03	JUL 11	140.92	16	139.51

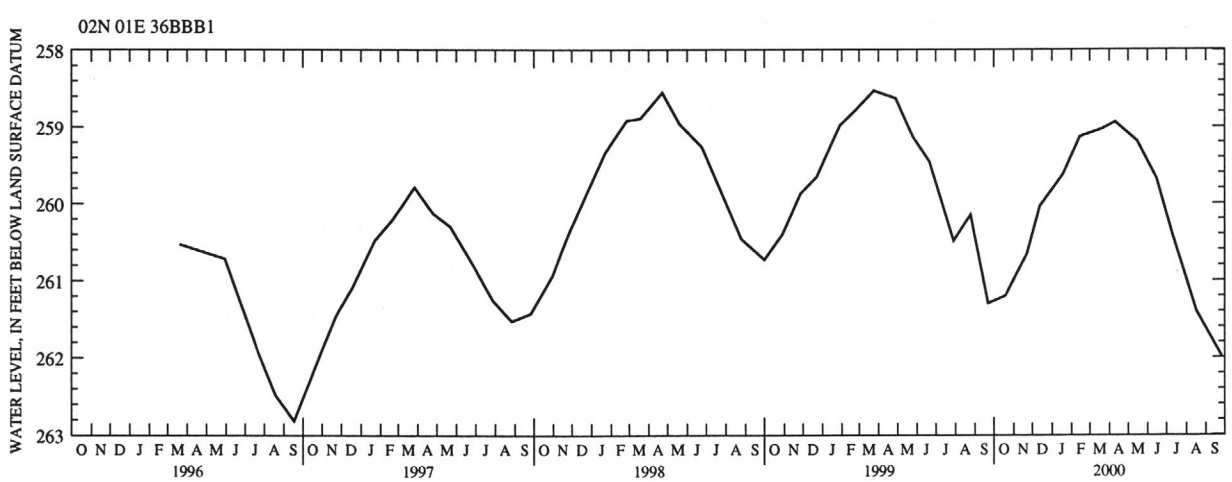
WELL NAME 02N 01E 36BBB1 SITE NUMBER 432825116173501

DRILLED UNUSED STOCK WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 305 FT, CASED TO 300 FT. LATITUDE 43°28'25", LONGITUDE 116°17'35". LSD ABOUT 2,867 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 6-IN THREAD PROTECTOR NORTHEAST SIDE, 1.20 FT ABOVE LSD (SINCE NOV 28, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 249.83 FEET BELOW LAND SURFACE DATUM JAN 31, 1974.
LOWEST WATER LEVEL 263.10 FEET BELOW LAND SURFACE DATUM SEP 27, 1993.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 19	261.20	DEC 13	260.04	FEB 14	259.13	APR 10	258.94	JUN 15	259.68	AUG 17	261.40
NOV 22	260.66	JAN 19	259.62	MAR 20	259.03	MAY 15	259.19	JUL 10	260.40	SEP 26	261.99



WELL NAME 02N 02E 07CBC1 SITE NUMBER 433119116161601

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 460 FT, 6-IN CASING TO 448 FT, SCREENED 450-460 FT. LATITUDE 43°33'19", LONGITUDE 116°16'16". LSD ABOUT 2,920 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.60 FT ABOVE LSD (SINCE MAR 18, 1996).

RECORDS AVAILABLE 1997 TO CURRENT YEAR
HIGHEST WATER LEVEL 274.40 FEET BELOW LAND SURFACE DATUM OCT 15, 1997.
LOWEST WATER LEVEL 308.06 FEET BELOW LAND SURFACE DATUM JUL 13, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 22	275.67	DEC 16	276.79	FEB 17	278.36	APR 13	279.50	JUN 15	287.30	AUG 17	301.43R
NOV 18	275.71	JAN 20	277.00	MAR 23	277.78	MAY 18	280.16	JUL 13	308.06	SEP 28	289.70

WELL NAME 02N 02E 34CCD1 SITE NUMBER 432732116123401

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 504 FT, 8-IN CASING TO 487 FT, 7-IN CASING 484-504 FT, PERFORATED 484-504 FT. LATITUDE 43°27'32", LONGITUDE 116°12'34". LSD ABOUT 3,045 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.20 FT ABOVE LSD (SINCE MAY 06, 1976).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL 442.14 FEET BELOW LAND SURFACE DATUM MAY 06, 1976.
LOWEST WATER LEVEL 454.99 FEET BELOW LAND SURFACE DATUM AUG 25, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 19	447.67	DEC 13	447.56	FEB 14	447.03	APR 10	447.20	JUN 15	448.06	AUG 17	447.29
NOV 23	447.79	JAN 18	447.47	MAR 20	447.33	MAY 15	446.95	JUL 10	447.76R	SEP 26	448.27

WELL NAME 02N 03E 06BCC2 SITE NUMBER 433221116090702

DRILLED DOMESTIC WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 10 TO 8 IN, DEPTH 460 FT, 8-IN CASING TO 435 FT, PERFORATED 335-435 FT. LATITUDE 43°32'21", LONGITUDE 116°09'07". LSD ABOUT 3,015 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING WEST SIDE, 1.70 FT ABOVE LSD (SINCE MAR 20, 1980).

RECORDS AVAILABLE 1980, 1996 TO CURRENT YEAR
HIGHEST WATER LEVEL 341.31 FEET BELOW LAND SURFACE DATUM MAR 20, 1980.
LOWEST WATER LEVEL 414.69 FEET BELOW LAND SURFACE DATUM JUN 04, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 19	409.50	DEC 13	408.88	FEB 14	408.00	APR 10	408.36	JUN 15	409.06	AUG 18	409.64
NOV 22	409.35	JAN 18	408.65	MAR 20	408.49	MAY 15	408.58	JUL 10	408.50	SEP 26	409.80

WELL NAME 02N 03E 09BAA2 SITE NUMBER 433150116061802

DRILLED UNUSED DOMESTIC WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 9 TO 6 IN, DEPTH 522 FT, 6-IN CASING TO 388 FT, 5-IN CASING 0-500 FT, 4.5-IN PERFORATED PVC LINER 499-519 FT. LATITUDE 43°31'50", LONGITUDE 116°16'18". LSD ABOUT 3,140 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 1 1/2-IN PIPE COUPLING, 1.00 FT ABOVE LSD (SINCE MAY 09, 1997).

RECORDS AVAILABLE 1997 TO CURRENT YEAR.
HIGHEST WATER LEVEL 482.19 FEET BELOW LAND SURFACE DATUM MAY 09, 1997.
LOWEST WATER LEVEL 488.22 FEET BELOW LAND SURFACE DATUM AUG 18, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 28	486.18	DEC 13	486.35	FEB 15	486.44	APR 11	486.50	JUL 10	487.50	SEP 28	487.73
NOV 22	487.15	JAN 18	486.50	MAR 27	486.36	JUN 16	487.52	AUG 18	488.22		

WELL NAME 01N 01W 30AAD1 SITE NUMBER 432351116293701

DRILLED IRRIGATION WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 24 TO 20 IN, DEPTH 360 FT, 20-IN CASING TO 21 FT. LATITUDE 43°23'51", LONGITUDE 116°29'37". LSD ABOUT 2,800 FT ABOVE SEA LEVEL. MP NO. 1 BOTTOM EDGE OF 1 1/4-IN ACCESS PIPE NORTH SIDE, 1.80 FT ABOVE LSD (SINCE APR 06, 1976).

RECORDS AVAILABLE 1976, 1997 TO CURRENT YEAR.
HIGHEST WATER LEVEL 249.07 FEET BELOW LAND SURFACE DATUM APR 06, 1976.
LOWEST WATER LEVEL 267.64 FEET BELOW LAND SURFACE DATUM OCT 17, 1997.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	264.44	DEC 15	260.32	FEB 16	258.95	APR 12	256.57	JUN 14	P	AUG 16	P
NOV 17	261.78	JAN 19	261.80	MAR 22	258.52	MAY 17	258.86	JUL 12	P	SEP 27	266.67

WELL NAME 01N 01E 16ACC1 SITE NUMBER 432525116203301

DRILLED DOMESTIC WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 386 FT, 6-IN CASING TO 38.5 FT. LATITUDE 43°25'25", LONGITUDE 116°20'33". LSD ABOUT 2,820 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING EAST SIDE, 1.65 FT ABOVE LSD (SINCE APR 05, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 228.41 FEET BELOW LAND SURFACE DATUM MAR 24, 1999.
LOWEST WATER LEVEL 237.73 FEET BELOW LAND SURFACE DATUM SEP 22, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 19	231.81	DEC 13	232.02	FEB 14	229.60	APR 11	230.17	JUN 15	233.79	AUG 17	235.38R
NOV 23	230.84	JAN 19	230.25	MAR 21	229.92	MAY 15	233.79	JUL 10	235.35	SEP 28	234.58

WELL NAME 01N 01E 33AAD1 SITE NUMBER 432301116200401

DRILLED IRRIGATION WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 20 TO 12 IN, DEPTH 542 FT, 20-IN CASING TO 19 FT. LATITUDE 43°23'01", LONGITUDE 116°20'04". LSD ABOUT 2,865 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE INSIDE PUMPBASE NORTH SIDE, 0.75 FT ABOVE LSD (SINCE OCT 17, 1997).

RECORDS AVAILABLE 1997 TO CURRENT YEAR.
HIGHEST WATER LEVEL 276.87 FEET BELOW LAND SURFACE DATUM MAR 24, 1999.
LOWEST WATER LEVEL 280.99 FEET BELOW LAND SURFACE DATUM AUG 17, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 19	279.82	DEC 13	278.35	FEB 14	277.31	APR 11	P	JUN 15	P	AUG 17	280.99
NOV 23	278.77	JAN 19	278.02	MAR 21	277.42	MAY 15	P	JUL 10	P		

WELL NAME 01N 02E 06BAA1 SITE NUMBER 432732116155501

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 36-20-16 IN, DEPTH 535 FT, 20-IN CASING TO 15 FT, 16-IN CASING 0-445 FT, 10-IN CASING 438-448 FT, SCREENED 448-510 FT. LATITUDE 43°27'32", LONGITUDE 116°15'55". LSD ABOUT 2,910 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE IN PUMPBASE, 1.25 FT ABOVE LSD (SINCE JAN 18, 2000).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 309.51 FEET BELOW LAND SURFACE DATUM FEB 24, 1999.
LOWEST WATER LEVEL 313.16 FEET BELOW LAND SURFACE DATUM SEP 16, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 19	311.68	DEC 13	311.02	FEB 14	309.93	APR 10	309.66	JUN 15	P	AUG 17	P
NOV 22	311.29	JAN 18	311.37	MAR 21	309.90	MAY 15	310.14	JUL 10	P	SEP 26	O

WELL NAME 01N 04E 28CAC1 SITE NUMBER 432326115591601

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 28-26-18 IN, DEPTH 763 FT, 26-IN CASING TO 72 FT, 16-IN CASING 0-763 FT, SCREENED 500-510 FT, 608-688 FT, 712-752 FT. LATITUDE 43°23'26", LONGITUDE 115°59'16". LSD ABOUT 3,360 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF BREATHER PIPE ACCESS PORT, 1.22 FT ABOVE LSD (SINCE APR 10, 2000).

RECORDS AVAILABLE 1980-1982, 1996, 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 389.88 FEET BELOW LAND SURFACE DATUM MAR 16, 1996.
LOWEST WATER LEVEL 407.72 FEET BELOW LAND SURFACE DATUM NOV 06, 1980.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 19	390.80	DEC 13	390.48	FEB 14	390.03	APR 10	390.68	JUN 15	P	AUG 18	P
NOV 23	390.66	JAN 18	390.41	MAR 20	390.29	MAY 15	392.05	JUL 11	P	SEP 26	P

WELL NAME 01S 01W 30BAB1 SITE NUMBER 431851116301101

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 300 FT, 6-IN CASING TO 198 FT. LATITUDE 43°18'51", LONGITUDE 116°30'11". LSD ABOUT 2,512 FT ABOVE SEA LEVEL. JAN 19, 2000, WELL CAVED IN AND WAS RECASED. MP NO. 1 TOP OF ACCESS HOLE EAST SIDE, 2.75 FT ABOVE LSD (SINCE JUN 24, 1992).

RECORDS AVAILABLE 1992, 1997 TO CURRENT YEAR
HIGHEST WATER LEVEL 167.80 FEET BELOW LAND SURFACE DATUM OCT 30, 1997.
LOWEST WATER LEVEL 265.82 FEET BELOW LAND SURFACE DATUM FEB 16, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	192.41	DEC 15	227.09	MAR 22	241.40	MAY 17	179.85	JUL 12	181.97	AUG 16	177.46
NOV 17	224.45R	FEB 16	265.82	APR 12	194.45	JUN 14	177.97	AUG 08	175.97	SEP 27	167.95

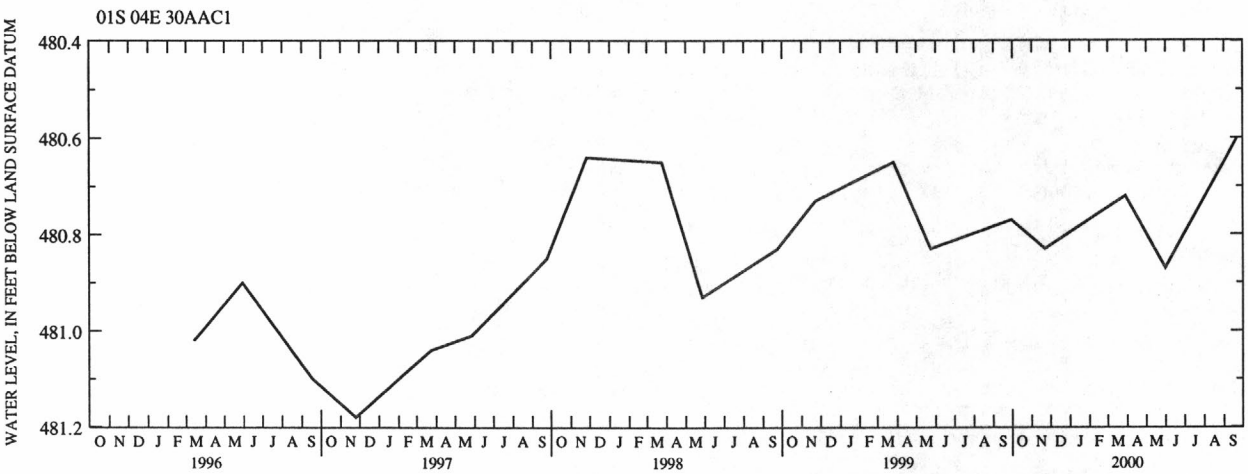
WELL NAME 01S 04E 30AAC1 SITE NUMBER 431839116010701

DRILLED UNUSED WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 750 FT, CASED TO 550 FT. LATITUDE 43°18'39", LONGITUDE 116°01'07". LSD ABOUT 3,150 FT ABOVE SEA LEVEL. MAY 24, 1967, WELL HAD FILLED IN TO A DEPTH OF 636.8 FT. RECORDER INSTALLED JUN 05, 1967 TO NOV 23, 1971. MP NO. 2 EDGE OF CASING EAST SIDE, 3.00 FT ABOVE LSD (SINCE JUN 01, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 480.64 FEET BELOW LAND SURFACE DATUM NOV 26, 1997.
LOWEST WATER LEVEL 487.98 FEET BELOW LAND SURFACE DATUM OCT 15, 1967.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 22 480.83 MAR 29 480.72 MAY 31 480.87 SEP 22 480.60



WELL NAME 02S 01E 23ADD1 SITE NUMBER 431402116173701

DRILLED UNUSED IRRIGATION WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 20 IN, DEPTH 816 FT, 16-IN CASING TO 816 FT, PERFORATED 615-816 FT. LATITUDE 43°14'02", LONGITUDE 116°17'37". LSD ABOUT 3,155 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 16-IN CASING SOUTH SIDE, 1.00 FT ABOVE LSD (SINCE APR 14, 1976).

RECORDS AVAILABLE 1976, 1980, 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 691.65 FEET BELOW LAND SURFACE DATUM MAY 15, 2000.
LOWEST WATER LEVEL 697.41 FEET BELOW LAND SURFACE DATUM AUG 26, 1976.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 19	693.10	DEC 13	691.84	FEB 15	691.98	APR 11	691.91	JUN 15	691.92	AUG 16	692.06
NOV 23	692.20	JAN 19	691.99	MAR 21	692.03	MAY 15	691.65	JUL 10	691.78	SEP 28	692.11

ADAMS COUNTY

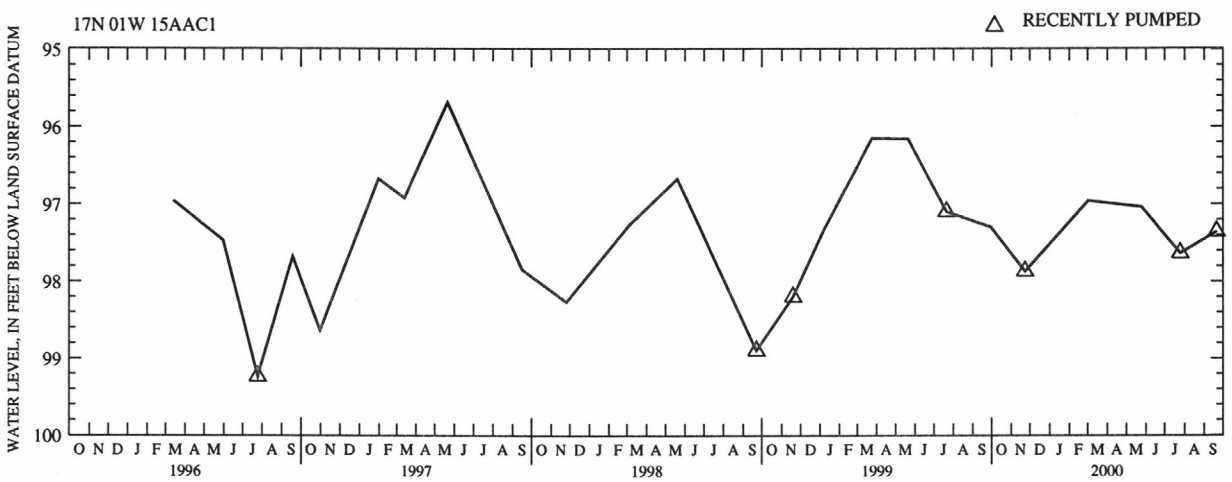
WELL NAME 17N 01W 15AAC1 SITE NUMBER 444854116262301

DRILLED DOMESTIC WATER-TABLE WELL IN SEDIMENTS OF TERTIARY AGE, DIAM 6 IN, REPORTED DEPTH 131 FT, CASED TO 109 FT. LATITUDE 44°48'54", LONGITUDE 116°26'23". LSD ABOUT 3,115 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.50 FT ABOVE LSD (SINCE APR 04, 1974).

RECORDS AVAILABLE 1974 TO CURRENT YEAR.
HIGHEST WATER LEVEL 95.07 FEET BELOW LAND SURFACE DATUM MAY 15, 1974.
LOWEST WATER LEVEL 100.33 FEET BELOW LAND SURFACE DATUM DEC 06, 1978.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 23 97.87R MAR 02 96.96 MAY 25 97.04 JUL 25 97.64R SEP 21 97.36R



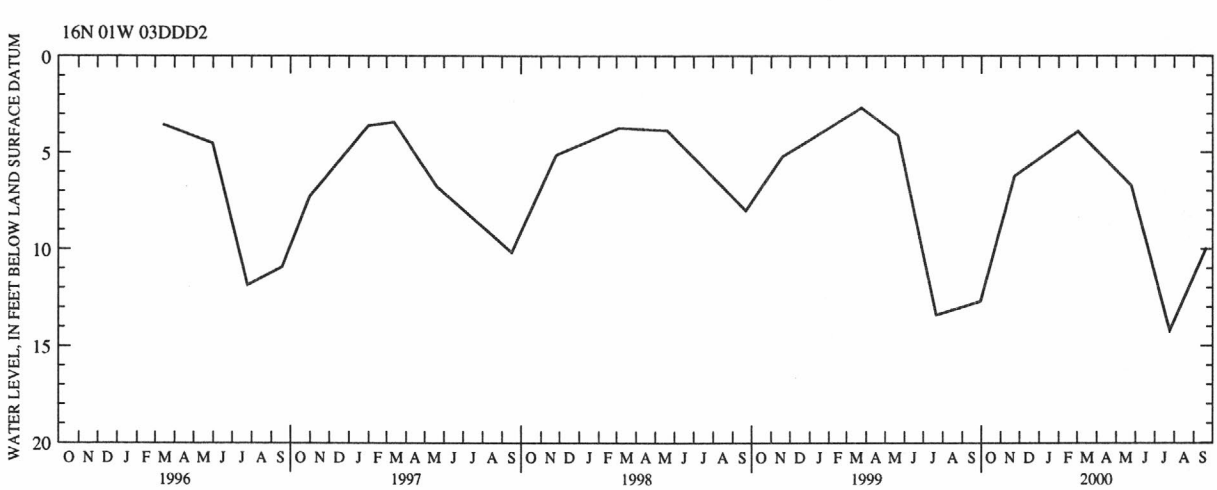
WELL NAME 16N 01W 03DDD2 SITE NUMBER 444447116255701

DRILLED UNUSED WATER-TABLE WELL IN SEMICONSOLIDATED GRAVEL OF QUATERNARY AGE, DIAM 12 IN, DEPTH 78.6 FT, CASED TO 7 FT, PERFORATED 2-6 FT. LATITUDE 44°44'47", LONGITUDE 116°25'57". LSD ABOUT 2,985 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE IN STEEL PLATE, 0.85 FT ABOVE LSD (SINCE MAR 24, 1988).

RECORDS AVAILABLE 1961 TO CURRENT YEAR.
HIGHEST WATER LEVEL .25 FEET BELOW LAND SURFACE DATUM MAR 06, 1979.
LOWEST WATER LEVEL 17.80 FEET BELOW LAND SURFACE DATUM JUL 16, 1985.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 23 6.22 MAR 02 3.90 MAY 25 6.73 JUL 25 14.20 SEP 21 9.96



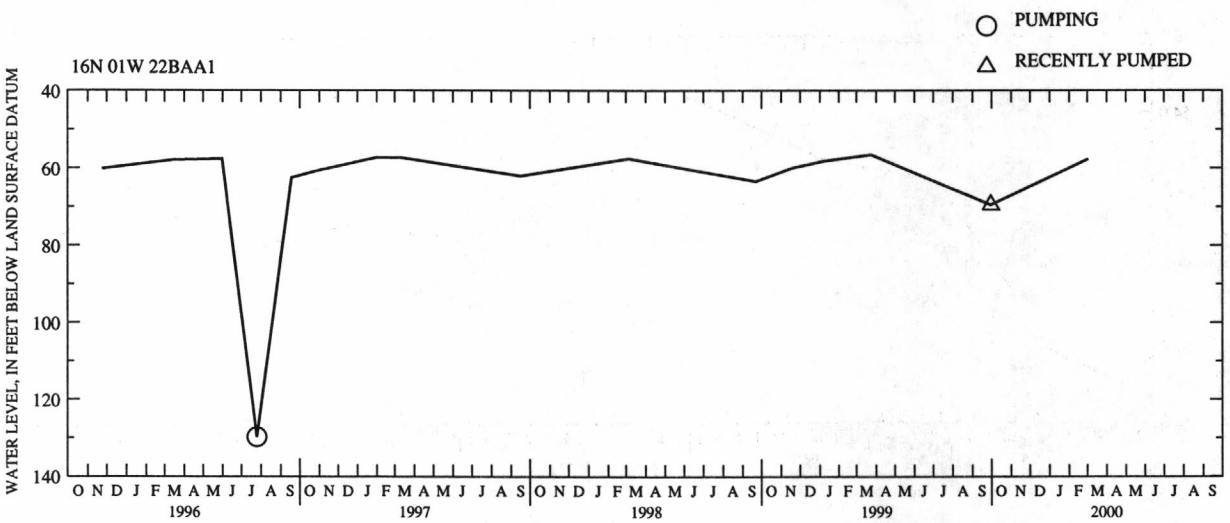
WELL NAME 16N 01W 22BAA1 SITE NUMBER 444256116263401

DRILLED IRRIGATION WATER-TABLE WELL IN COLUMBIA RIVER GROUP, DIAM 10 IN, DEPTH 390 FT, CASED TO 28 FT. LATITUDE 44°42'56", LONGITUDE 116°26'34". LSD ABOUT 2,950 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE SOUTH SIDE, 0.40 FT ABOVE LSD (SINCE JUL 09, 1974).

RECORDS AVAILABLE 1974 TO CURRENT YEAR.
HIGHEST WATER LEVEL 56.33 FEET BELOW LAND SURFACE DATUM APR 30, 1976.
LOWEST WATER LEVEL 159.14 FEET BELOW LAND SURFACE DATUM SEP 01, 1987.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 02 57.60 SEP 21 P



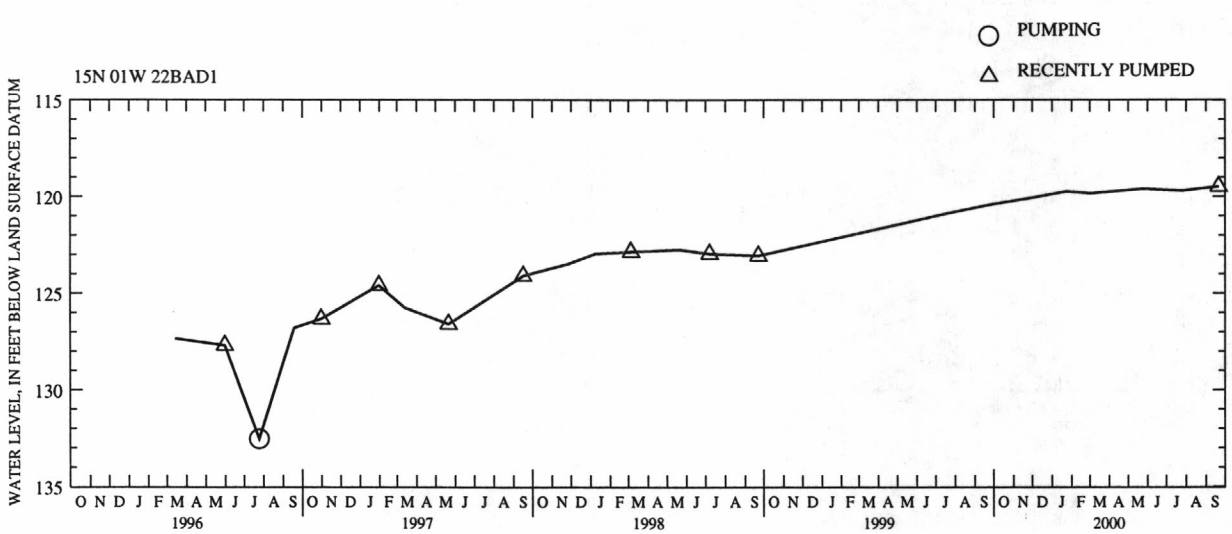
WELL NAME 15N 01W 22BAD1 SITE NUMBER 443736116263701

DRILLED DOMESTIC WATER-TABLE WELL IN SEDIMENTS OF TERTIARY AGE, DIAM 8 IN, DEPTH 175 FT, CASED TO 84 FT. LATITUDE 44°37'36", LONGITUDE 116°26'37". LSD ABOUT 3,260 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTHEAST SIDE, 0.50 FT ABOVE LSD (SINCE APR 17, 1975).

RECORDS AVAILABLE 1975 TO CURRENT YEAR.
HIGHEST WATER LEVEL 112.61 FEET BELOW LAND SURFACE DATUM APR 17, 1975.
LOWEST WATER LEVEL 130.08 FEET BELOW LAND SURFACE DATUM JUN 06, 1995.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 23 120.10 JAN 24 119.73 MAR 02 119.82 MAY 25 119.60 JUL 25 119.70 SEP 21 119.48R



BOISE COUNTY

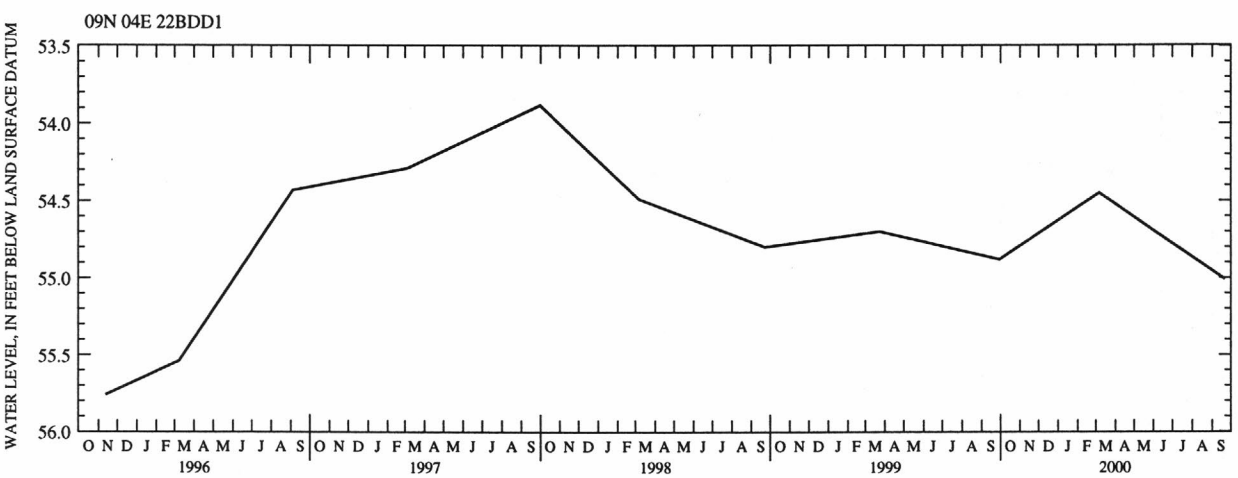
WELL NAME 09N 04E 22BDD1 SITE NUMBER 440602115580301

DRILLED DOMESTIC WATER-TABLE WELL IN COARSE SAND AND GRAVEL OF QUATERNARY AGE, DIAM 6 IN, REPORTED DEPTH 111 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 44°06'02", LONGITUDE 115°58'03". LSD ABOUT 3,100 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 0.80 FT ABOVE LSD (SINCE JUL 12, 1971).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 52.66 FEET BELOW LAND SURFACE DATUM JUL 18, 1984.
LOWEST WATER LEVEL 57.80 FEET BELOW LAND SURFACE DATUM JAN 22, 1968.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 06 54.45 SEP 21 55.01



BONNER COUNTY

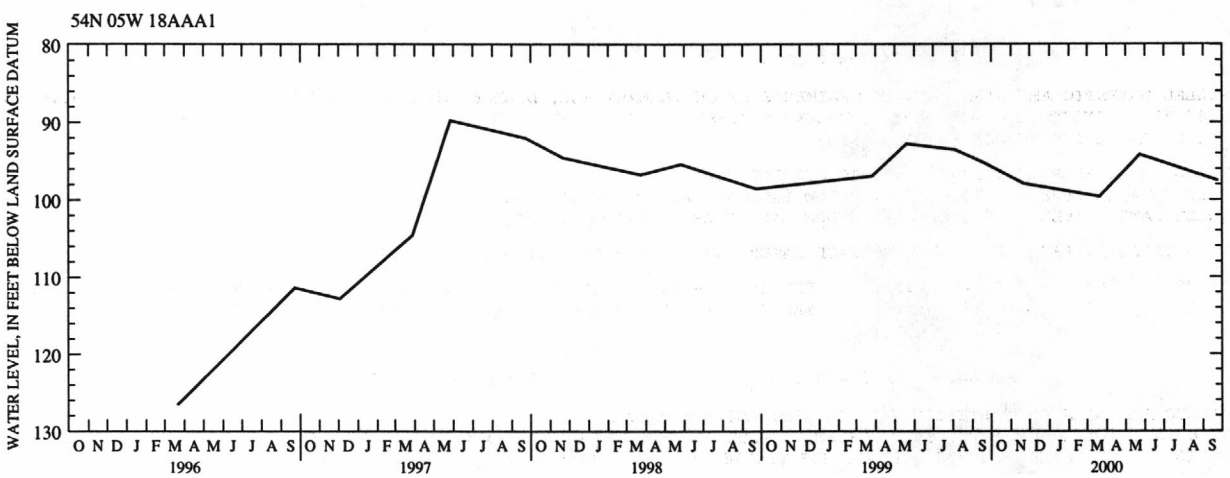
WELL NAME 54N 05W 18AAA1 SITE NUMBER 480207117001401

DRILLED DOMESTIC WATER-TABLE WELL IN GLACIAL OUTWASH GRAVELS, DIAM 6 IN, DEPTH 146 FT, CASED TO 146 FT, PERFORATED 138-146 FT. LATITUDE 48°02'04", LONGITUDE 117°00'12". LSD ABOUT 2,280 FT ABOVE SEA LEVEL. MP NO. 2 BOTTOM OUTSIDE EDGE OF 3/4-IN ACCESS HOLE NORTHEAST SIDE, 1.00 FT ABOVE LSD (SINCE SEP 23, 1987).

RECORDS AVAILABLE 1977 TO CURRENT YEAR.
HIGHEST WATER LEVEL 89.77 FEET BELOW LAND SURFACE DATUM MAY 27, 1997.
LOWEST WATER LEVEL 128.24 FEET BELOW LAND SURFACE DATUM JAN 27, 1995.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 22 97.94 MAR 21 99.60 MAY 24 94.21 SEP 25 97.56



WELL NAME 06N 05W 30BAB1 SITE NUMBER 435007116591501

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 169 FT, CASED TO 135 FT. LATITUDE 43°50'07", LONGITUDE 116°59'15". LSD ABOUT 2,225 FT ABOVE SEA LEVEL. MP NO. 1 BOTTOM OF ACCESS HOLE IN PUMPBASE WEST SIDE, 1.00 FT ABOVE LSD (SINCE JAN 09, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 25.17 FEET BELOW LAND SURFACE DATUM SEP 10, 1968.
LOWEST WATER LEVEL 35.16 FEET BELOW LAND SURFACE DATUM MAY 27, 1969.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	27.35	DEC 14	28.87	FEB 15	29.89	APR 11	30.22	JUN 13	28.20	AUG 15	26.63
NOV 16	28.03	JAN 18	29.50	MAR 21	30.14	MAY 16	O	JUL 11	26.85	SEP 26	26.55

WELL NAME 05N 05W 04BCC1 SITE NUMBER 434759116570201

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 46 FT, CASED TO 45 FT. LATITUDE 43°47'59", LONGITUDE 116°57'02". LSD ABOUT 2,285 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE SOUTH SIDE, 1.11 FT ABOVE LSD (SINCE MAR 28, 1996).

RECORDS AVAILABLE 1994, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 10.94 FEET BELOW LAND SURFACE DATUM SEP 17, 1996.
LOWEST WATER LEVEL 15.88 FEET BELOW LAND SURFACE DATUM APR 30, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	12.68	DEC 14	14.09	FEB 15	14.92	APR 11	15.38	JUN 13	14.39	AUG 15	12.14
NOV 16	13.42	JAN 18	14.56	MAR 21	15.19	MAY 16	15.69	JUL 11	13.73	SEP 26	15.19

WELL NAME 05N 05W 04DCD1 SITE NUMBER 434733116561501

DRILLED PUBLIC SUPPLY ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 28 IN, DEPTH 505 FT, 16-IN CASING TO 220 FT, 8-IN CASING 220-485 FT, 8-IN SCREEN 245-255 FT, 268-273 FT, 364-374 FT, 454-459 FT, 472-477 FT, GRAVEL PACKED 65-220 FT. LATITUDE 43°47'33", LONGITUDE 116°56'15". LSD ABOUT 2,281 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF BREATHER PIPE EAST SIDE, 1.70 FT ABOVE LSD (SINCE MAR 21, 1996).

RECORDS AVAILABLE 1990, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 62.60 FEET BELOW LAND SURFACE DATUM FEB 15, 2000.
LOWEST WATER LEVEL 75.08 FEET BELOW LAND SURFACE DATUM JUL 11, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	67.55R	DEC 14	63.12	FEB 15	62.60	APR 11	144.04P	JUN 13	140.17P	AUG 15	142.48P
NOV 16	63.89	JAN 18	62.82	MAR 21	68.41	MAY 16	65.80	JUL 11	75.08	SEP 26	120.92P

WELL NAME 05N 05W 18CAC1 SITE NUMBER 434603116590901

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, REPORTED DEPTH 250 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°46'03", LONGITUDE 116°59'09". LSD ABOUT 2,225 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE SOUTH SIDE, 1.50 FT ABOVE LSD (SINCE JAN 05, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 7.50 FEET BELOW LAND SURFACE DATUM SEP 07, 1973.
LOWEST WATER LEVEL 14.88 FEET BELOW LAND SURFACE DATUM SEP 26, 1991.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 21	14.02	SEP 26	10.55

WELL NAME 05N 05W 20CCD1 SITE NUMBER 434459116575001

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 37 FT, CASED TO 36 FT. LATITUDE 43°44'59", LONGITUDE 116°57'50". LSD ABOUT 2,255 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE, 0.75 FT ABOVE LSD (SINCE APR 21, 1998).

RECORDS AVAILABLE 1991, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 13.18 FEET BELOW LAND SURFACE DATUM AUG 21, 1996.
LOWEST WATER LEVEL 21.60 FEET BELOW LAND SURFACE DATUM APR 21, 1998.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	14.67	DEC 14	16.43	FEB 15	17.65	APR 11	17.88	JUN 13	14.97	AUG 15	13.35
NOV 16	15.60	JAN 18	17.19	MAR 21	18.10	MAY 16	16.03	JUL 11	14.13R	SEP 26	13.45

WELL NAME 05N 04W 09DCA1 SITE NUMBER 434651116490501

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 281 FT, 6-IN CASING TO 270 FT, 5-IN CASING 259-281 FT, SCREENED 274-279 FT. LATITUDE 43°46'51", LONGITUDE 116°49'05". LSD ABOUT 2,460 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.40 FT ABOVE LSD (SINCE MAR 25, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 105.03 FEET BELOW LAND SURFACE DATUM OCT 28, 1997.
LOWEST WATER LEVEL 109.78 FEET BELOW LAND SURFACE DATUM JUL 11, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	106.25	DEC 14	106.74	FEB 15	107.74	APR 11	108.45	JUN 13	108.46		
NOV 16	106.26	JAN 18	107.22	MAR 21	108.18	MAY 16	108.48	JUL 11	109.78		

WELL NAME 05N 04W 35BBB1 SITE NUMBER 434359116472801

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 75 FT, CASED TO 74 FT. LATITUDE 43°43'59", LONGITUDE 116°47'28". LSD ABOUT 2,330 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 1.00 FT ABOVE LSD (SINCE MAR 21, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 12.15 FEET BELOW LAND SURFACE DATUM SEP 17, 1996.
LOWEST WATER LEVEL 17.18 FEET BELOW LAND SURFACE DATUM MAR 18, 1998.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	13.90	DEC 14	14.94	FEB 15	15.55	APR 11	15.38	JUN 13	13.37	AUG 15	13.59
NOV 16	14.37	JAN 18	15.70	MAR 21	18.84R	MAY 16	13.97	JUL 11	15.57	SEP 26	13.03

WELL NAME 05N 03W 15DDC1 SITE NUMBER 434554116403101

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 147 FT, 6-IN CASING TO 145 FT. LATITUDE 43°45'54", LONGITUDE 116°40'31". LSD ABOUT 2,495 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 1.70 FT ABOVE LSD (SINCE MAR 24, 1994).

RECORDS AVAILABLE 1994, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 47.13 FEET BELOW LAND SURFACE DATUM OCT 28, 1997.
LOWEST WATER LEVEL 55.36 FEET BELOW LAND SURFACE DATUM MAY 16, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	48.67R	DEC 14	51.32	FEB 15	52.89	APR 11	54.80	JUN 13	56.36R	AUG 15	51.05
NOV 16	49.18	JAN 18	51.76	MAR 21	54.00	MAY 16	55.36	JUL 11	53.10	SEP 26	45.40

WELL NAME 05N 03W 30ADD1 SITE NUMBER 434430116435601

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 180 FT, 6-IN CASING TO 158 FT. LATITUDE 43°44'35", LONGITUDE 116°43'56". LSD ABOUT 2,475 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 2.04 FT ABOVE LSD (SINCE MAY 28, 1993).

RECORDS AVAILABLE 1993, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 81.15 FEET BELOW LAND SURFACE DATUM OCT 28, 1997.
LOWEST WATER LEVEL 93.33 FEET BELOW LAND SURFACE DATUM AUG 24, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	82.34	DEC 14	84.44	FEB 15	84.32	APR 11	86.63	JUN 13	84.88	AUG 15	84.12
NOV 16	82.62	JAN 18	83.73	MAR 21	84.82	MAY 16	94.61R	JUL 11	85.03	SEP 26	82.64

WELL NAME 05N 02W 22CAD1 SITE NUMBER 434514116334501

FORMERLY SITE NUMBER 434601116342601, WELL NAME 05N 02W 22CAA1. DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 TO 8 IN, DEPTH 450 FT, 12-IN CASING TO 303 FT, 8-IN CASING 284-403 FT, PERFORATED 279-403 FT. LATITUDE 43°45'14", LONGITUDE 116°33'45". LSD ABOUT 2,610 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 1 1/2-IN VERTICAL ACCESS PIPE SOUTH SIDE, 1.50 FT ABOVE LSD (SINCE FEB 21, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 178.74 FEET BELOW LAND SURFACE DATUM MAR 18, 1998.
LOWEST WATER LEVEL 197.07 FEET BELOW LAND SURFACE DATUM JUN 13, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	182.33	DEC 14	180.03	FEB 15	178.91	APR 11	179.64	JUN 13	197.07	AUG 15	191.18
NOV 16	179.62	JAN 18	179.10	MAR 21	180.80	MAY 16	184.68	JUL 12	189.54	SEP 26	P

WELL NAME 04N 05W 07DCD1 SITE NUMBER 434132116584001

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 100 FT, CASED TO 100 FT, PERFORATED 64-100 FT, GRAVEL PACKED 0-73 FT. LATITUDE 43°41'32", LONGITUDE 116°58'40". LSD ABOUT 2,292 FT ABOVE SEA LEVEL. MP NO. 1 BOTTOM EDGE OF ACCESS PIPE WEST SIDE, 1.00 FT ABOVE LSD (SINCE MAR 16, 1971).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.
HIGHEST WATER LEVEL 10.79 FEET BELOW LAND SURFACE DATUM SEP 26, 1984.
LOWEST WATER LEVEL 22.34 FEET BELOW LAND SURFACE DATUM SEP 23, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 20 17.97

WELL NAME 04N 05W 14DAD1 SITE NUMBER 434053116532901

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 65 FT, CASED TO 56 FT. LATITUDE 43°40'53", LONGITUDE 116°53'29". LSD ABOUT 2,431 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 0.90 FT ABOVE LSD (SINCE JUN 03, 1992).

RECORDS AVAILABLE 1975, 1992, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 6.38 FEET BELOW LAND SURFACE DATUM MAY 18, 1998.
LOWEST WATER LEVEL 12.20 FEET BELOW LAND SURFACE DATUM JUL 18, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	11.30R	JAN 18	11.80	APR 11	11.24	JUL 05	9.05	SEP 16	10.29
NOV 16	11.59	FEB 15	11.45	MAY 16	5.63	11	9.47		
DEC 14	12.01	MAR 21	11.00	JUN 13	7.82	AUG 15	8.48		

WELL NAME 04N 04W 04CDC1 SITE NUMBER 434225116493101

DRILLED DOMESTIC-STOCK ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 4 IN, DEPTH 420 FT, CASED TO 387 FT. LATITUDE 43°42'25", LONGITUDE 116°49'31". LSD ABOUT 2,285 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 2-IN DISCHARGE PIPE, 2.20 FT ABOVE LSD (SINCE MAR 21, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL +12.62 FEET ABOVE LAND SURFACE DATUM JUL 26, 1999.
LOWEST WATER LEVEL +8.63 FEET ABOVE LAND SURFACE DATUM APR 11, 2000.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	+10.22	DEC 14	+8.72	FEB 15	+9.13	APR 11	+8.63	JUN 13	+10.94	AUG 15	+9.60
NOV 16	+10.32	JAN 18	+9.03	MAR 21	+10.72	MAY 16	+9.42	JUL 11	+10.64	SEP 26	+9.55

WELL NAME 04N 04W 05CAC1 SITE NUMBER 434234116504601

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 224 FT, 6-IN CASING TO 168 FT. LATITUDE 43°42'34", LONGITUDE 116°50'46". LSD ABOUT 2,280 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF CONCRETE PAD AT LSD (SINCE JUN 03, 1992).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL +4.25 FEET ABOVE LAND SURFACE DATUM JUL 20, 1998.
LOWEST WATER LEVEL +1.72 FEET ABOVE LAND SURFACE DATUM APR 21, 1998.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	+3.70	DEC 14	+4.11	FEB 15	+3.68	APR 11	+2.90	JUN 13	+3.56	AUG 15	+3.85
NOV 16	+3.93	JAN 18	+3.56	MAR 21	+3.41	MAY 16	+2.91	JUL 11	+3.02	SEP 26	+3.88

WELL NAME 04N 03W 15ADC1 SITE NUMBER 434105116402701

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 22-12 IN, DEPTH 1,010 FT, 2-IN PVC PIEZOMETER 0-952 FT, PERFORATED 912-922 FT, 932-942 FT, BENTONITE SEAL 875-895 FT. LATITUDE 43°41'05", LONGITUDE 116°20'27". LSD ABOUT 2,441 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.38 FT ABOVE LSD (SINCE NOV 30, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 36.78 FEET BELOW LAND SURFACE DATUM AUG 16, 2000.
LOWEST WATER LEVEL 38.87 FEET BELOW LAND SURFACE DATUM DEC 15, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 30	38.70	JAN 19	38.44	MAR 22	37.92	MAY 17	37.31	JUL 12	36.92	SEP 27	36.78
DEC 15	38.87	FEB 16	37.72	APR 12	37.71	JUN 14	37.12	AUG 16	36.78		

WELL NAME 04N 03W 15ADC2 SITE NUMBER 434105116402702

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 22-12 IN, DEPTH 725 FT, 2-IN PVC PIEZOMETER 0-714 FT, PERFORATED 679-689 FT, 699-709 FT, BENTONITE CHIPS 579-615 FT. LATITUDE 43°41'05", LONGITUDE 116°20'27". LSD ABOUT 2,441 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.37 FT ABOVE LSD (SINCE NOV 30, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 32.05 FEET BELOW LAND SURFACE DATUM MAY 16, 2000.
LOWEST WATER LEVEL 34.22 FEET BELOW LAND SURFACE DATUM NOV 30, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 30	34.22	JAN 19	33.65	MAR 22	33.11	MAY 16	32.05	JUL 12	33.57	SEP 27	34.20
DEC 15	34.17	FEB 16	33.29	APR 12	33.07	JUN 14	33.29	AUG 16	34.02		

WELL NAME 04N 03W 15ADC3 SITE NUMBER 434105116402703

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 22-12 IN, DEPTH 550 FT, 2-IN PVC PIEZOMETER 0-546 FT, PERFORATED 516-536 FT, 546-550 FT, BENTONITE CHIPS 430-476 FT. LATITUDE 43°41'05", LONGITUDE 116°20'27". LSD ABOUT 2,441 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.38 FT ABOVE LSD (SINCE NOV 30, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 64.00 FEET BELOW LAND SURFACE DATUM FEB 16, 2000.
LOWEST WATER LEVEL 68.40 FEET BELOW LAND SURFACE DATUM JUL 12, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 30	65.02	JAN 19	64.58	MAR 22	64.47	MAY 16	66.30	JUL 12	68.40	SEP 27	65.70
DEC 15	65.05	FEB 16	64.00	APR 12	65.83	JUN 14	67.57	AUG 16	68.35		

WELL NAME 04N 03W 15ADC4 SITE NUMBER 434105116402704

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 22-12 IN, DEPTH 407 FT, 2-IN PVC PIEZOMETER 0-406 FT, PERFORATED 376-396 FT, BENTONITE CHIPS 270-370 FT. LATITUDE 43°41'05", LONGITUDE 116°20'27". LSD ABOUT 2,441 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.40 FT ABOVE LSD (SINCE NOV 30, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 72.86 FEET BELOW LAND SURFACE DATUM MAR 22, 2000.
LOWEST WATER LEVEL 76.64 FEET BELOW LAND SURFACE DATUM JUL 12, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 30	73.16	JAN 19	73.21	MAR 22	72.86	MAY 17	74.39	JUL 12	76.64	SEP 27	73.33
DEC 15	73.30	FEB 16	73.41	APR 12	74.35	JUN 14	75.23	AUG 16	75.77		

WELL NAME 04N 03W 15ADC5 SITE NUMBER 434105116402705

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 22-12 IN, DEPTH 270 FT, 2-IN PVC PIEZOMETER 0-258 FT, PERFORATED 238-248 FT, BENTONITE CHIPS 208-234 FT. LATITUDE 43°41'05", LONGITUDE 116°20'27". LSD ABOUT 2,441 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.41 FT ABOVE LSD (SINCE NOV 30, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 72.93 FEET BELOW LAND SURFACE DATUM MAR 22, 2000.
LOWEST WATER LEVEL 76.45 FEET BELOW LAND SURFACE DATUM JUL 12, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 30	73.17	JAN 19	73.24	MAR 22	72.93	MAY 17	74.33	JUL 12	76.45	SEP 27	73.26
DEC 15	73.28	FEB 16	73.45	APR 12	74.28	JUN 14	75.04	AUG 16	75.59		

WELL NAME 04N 03W 15ADC6 SITE NUMBER 434105116402706

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 22-12 IN, DEPTH 208 FT, 2-IN PVC PIEZOMETER 0-202 FT, PERFORATED 182-192 FT, BENTONITE CHIPS 166-174 FT. LATITUDE 43°41'05", LONGITUDE 116°20'27". LSD ABOUT 2,441 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.40 FT ABOVE LSD (SINCE NOV 30, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 74.23 FEET BELOW LAND SURFACE DATUM FEB 16, 2000.
LOWEST WATER LEVEL 77.12 FEET BELOW LAND SURFACE DATUM JUL 12, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 30	74.33	JAN 19	74.58	MAR 22	74.45	MAY 17	75.58	JUL 12	77.12	SEP 27	74.35
DEC 15	74.54	FEB 16	74.23	APR 12	75.54	JUN 14	75.97	AUG 16	76.52		

WELL NAME 04N 03W 15ADC7 SITE NUMBER 434105116402707

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 22-12 IN, DEPTH 166 FT, 2-IN PVC PIEZOMETER 0-162 FT, PERFORATED 142-152 FT, BENTONITE CHIPS 122-139 FT. LATITUDE 43°41'05", LONGITUDE 116°20'27". LSD ABOUT 2,441 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.37 FT ABOVE LSD (SINCE NOV 30, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 74.72 FEET BELOW LAND SURFACE DATUM SEP 27, 2000.
LOWEST WATER LEVEL 77.01 FEET BELOW LAND SURFACE DATUM MAY 17, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 30	75.13	JAN 19	76.00	MAR 22	76.63	MAY 17	77.01	JUL 12	76.50	SEP 27	74.72
DEC 15	75.45	FEB 16	75.80	APR 12	76.98	JUN 14	76.63	AUG 16	75.85		

WELL NAME 04N 03W 15ADC8 SITE NUMBER 434105116402708

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 22-12 IN, DEPTH 122 FT, 2-IN PVC PIEZOMETER 0-122 FT, PERFORATED 110-120 FT, BENTONITE CHIPS 0-107 FT. LATITUDE 43°41'05", LONGITUDE 116°20'27". LSD ABOUT 2,441 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.41 FT ABOVE LSD (SINCE NOV 30, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 73.31 FEET BELOW LAND SURFACE DATUM SEP 27, 2000.
LOWEST WATER LEVEL 76.80 FEET BELOW LAND SURFACE DATUM MAY 17, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 30	73.69	JAN 19	75.17	MAR 22	76.32	MAY 17	76.80	JUL 12	75.03	SEP 27	73.31
DEC 15	74.20	FEB 16	74.61	APR 12	76.71	JUN 14	75.97	AUG 16	74.12		

WELL NAME 04N 03W 27CBAD1 SITE NUMBER 433915116411701

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 97 FT, CASED TO 75.5 FT. LATITUDE 43°39'15", LONGITUDE 116°41'17". LSD ABOUT 2,380 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 1.25 FT ABOVE LSD (SINCE MAR 22, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 4.25 FEET BELOW LAND SURFACE DATUM JUL 31, 1997.
LOWEST WATER LEVEL 7.10 FEET BELOW LAND SURFACE DATUM FEB 23, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	5.12	DEC 15	6.03	FEB 16	6.33	APR 12	6.48	JUN 14	5.65	AUG 16	5.00
NOV 17	5.65	JAN 19	6.29	MAR 22	6.32	MAY 17	6.07	JUL 12	5.33	SEP 27	4.91

WELL NAME 04N 02W 06CDD1 SITE NUMBER 434228116372701

DRILLED UNUSED PUBLIC-SUPPLY WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 420 FT, 12-IN CASING TO 365 FT, 6-IN CASING 76-404 FT. LATITUDE 43°42'28", LONGITUDE 116°37'27". LSD ABOUT 2,404 FT ABOVE SEA LEVEL. MP NO. 1 CONCRETE FLOOR AT LSD (SINCE MAR 18, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL +20.13 FEET ABOVE LAND SURFACE DATUM FEB 15, 2000.
LOWEST WATER LEVEL +15.90 FEET ABOVE LAND SURFACE DATUM AUG 15, 2000.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	+17.78	DEC 14	+19.03	FEB 15	+20.13	APR 11	+19.53	JUN 13	+17.34	AUG 15	+15.90
NOV 16	+18.12	JAN 26	+19.63	MAR 21	+20.02	MAY 16	+20.02	JUL 11	+18.08	SEP 26	+15.95

WELL NAME 04N 02W 07AAC1 SITE NUMBER 434214116365901

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 42 FT, CASED TO 40 FT. LATITUDE 43°42'14", LONGITUDE 116°36'59". LSD ABOUT 2,395 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 2.30 FT ABOVE LSD (SINCE MAR 29, 1994).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 3.14 FEET BELOW LAND SURFACE DATUM AUG 22, 1996.
LOWEST WATER LEVEL 5.91 FEET BELOW LAND SURFACE DATUM JUL 28, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	3.76	DEC 14	4.25	FEB 15	3.70	APR 11	4.10	JUN 13	4.20	AUG 15	4.52
NOV 16	4.27	JAN 18	3.88	MAR 21	3.80	MAY 16	4.21	JUL 11	4.57	SEP 26	3.98

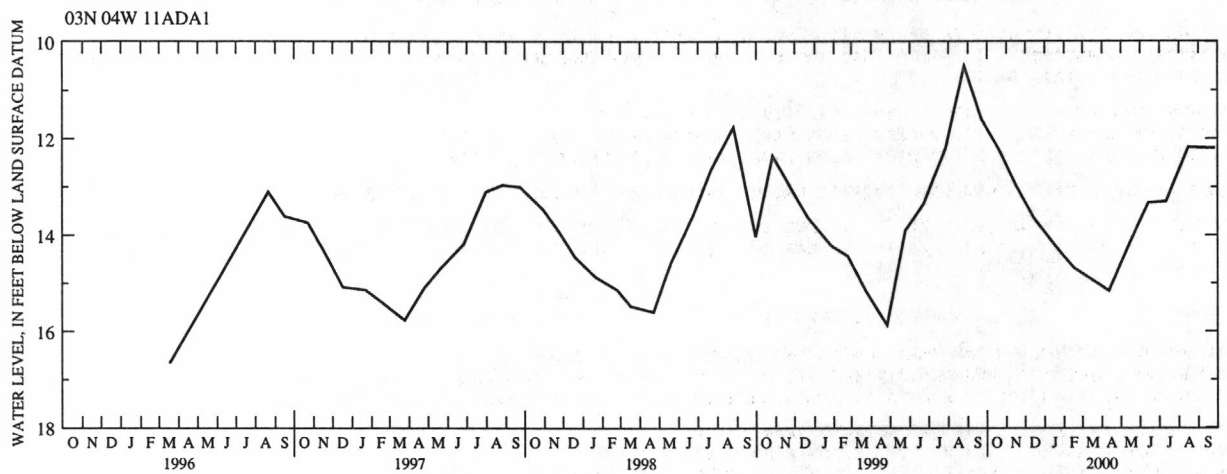
WELL NAME 03N 04W 11ADA1 SITE NUMBER 433646116461801

DRILLED OBSERVATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 TO 4 IN, DEPTH 99.4 FT, 6-IN CASING TO 95 FT, 4-IN CASING 94-99.4 FT, PERFORATED 94-99.4 FT. LATITUDE 43°36'46", LONGITUDE 116°46'18". LSD ABOUT 2,497 FT ABOVE SEA LEVEL. MAR 01, 1974, WELL HAD FILLED IN TO A DEPTH OF 91.1 FT. RECORDER INSTALLED AUG 20, 1953 TO OCT 20, 1954. RECORDER INSTALLED MAY 12, 1967 TO NOV 24, 1971. MP NO. 1 EDGE OF CASING, 0.60 FT ABOVE LSD (SINCE MAY 12, 1967).

RECORDS AVAILABLE 1953 TO CURRENT YEAR.
HIGHEST WATER LEVEL 5.89 FEET BELOW LAND SURFACE DATUM AUG 26, 1953.
LOWEST WATER LEVEL 31.23 FEET BELOW LAND SURFACE DATUM SEP 23, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	12.25	DEC 15	13.64	FEB 16	14.68	APR 12	15.16	JUN 14	13.33	AUG 16	12.18
NOV 17	12.98	JAN 19	14.24	MAR 22	14.98	MAY 17	14.11	JUL 12	13.30	SEP 27	12.20



WELL NAME 03N 04W 13BBC1 SITE NUMBER 433601116461001

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 295 FT, 6-IN CASING TO 207 FT, 4 1/2-IN CASING 185-265 FT, SCREENED 205-245 FT. LATITUDE 43°36'01", LONGITUDE 116°46'10". LSD ABOUT 2,535 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 1.35 FT ABOVE LSD (SINCE MAR 21, 1996).

RECORDS AVAILABLE 1996 TO APR 12, 2000.
HIGHEST WATER LEVEL 113.19 FEET BELOW LAND SURFACE DATUM MAR 23, 1999.
LOWEST WATER LEVEL 132.73 FEET BELOW LAND SURFACE DATUM JUL 13, 1997.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	119.80	DEC 15	118.26	FEB 16	117.38	APR 12	114.75
NOV 17	116.41	JAN 19	113.50	MAR 22	114.93		

WELL NAME 03N 03W 03BCB2 SITE NUMBER 433745116412501

DRILLED OBSERVATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 TO 4 IN, DEPTH 94 FT, 6-IN CASING TO 90.5 FT, PERFORATED 22-25 FT, SCREENED 84-94.5 FT. LATITUDE 43°37'45", LONGITUDE 116°41'25". LSD 2,429.23 FT ABOVE SEA LEVEL. RECORDER INSTALLED OCT 19, 1953 TO AUG 20, 1954. MP NO. 4 TOP OF ACCESS HOLE WEST SIDE, 1.95 FT ABOVE LSD (SINCE DEC 19, 1997).

RECORDS AVAILABLE 1953 TO CURRENT YEAR.
HIGHEST WATER LEVEL 7.13 FEET BELOW LAND SURFACE DATUM SEP 27, 1960.
LOWEST WATER LEVEL 21.48 FEET BELOW LAND SURFACE DATUM AUG 16, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	20.33	DEC 15	17.93	FEB 16	17.72	APR 12	17.93	JUN 14	20.96	AUG 16	21.48
NOV 17	18.41	JAN 19	17.70	MAR 22	17.78	MAY 17	19.77	JUL 12	21.25	SEP 27	21.03

WELL NAME 03N 03W 23DCD1 SITE NUMBER 433433116392701

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 14 TO 12 IN, DEPTH 97 FT, 12-IN CASING TO 95 FT, PERFORATED 50-80 FT. LATITUDE 43°34'33", LONGITUDE 116°39'27". LSD ABOUT 2,490 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 0.75 FT ABOVE LSD (SINCE MAR 21, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 36.99 FEET BELOW LAND SURFACE DATUM SEP 30, 1990.
LOWEST WATER LEVEL 49.03 FEET BELOW LAND SURFACE DATUM JUL 12, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	37.75	DEC 15	38.51	FEB 16	38.99	APR 12	39.14	JUN 14	38.02	AUG 16	48.98
NOV 17	38.14	JAN 19	38.76	MAR 22	41.07	MAY 17	38.57	JUL 12	49.03	SEP 27	P

WELL NAME 03N 02W 08BCCC1 SITE NUMBER 433645116364001

DRILLED COMMERCIAL ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 93.5 FT, 6-IN CASING TO 93.5 FT. LATITUDE 43°36'45", LONGITUDE 116°36'40". LSD ABOUT 2,445 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 2.30 FT ABOVE LSD (SINCE MAR 28, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 6.17 FEET BELOW LAND SURFACE DATUM NOV 24, 1997.
LOWEST WATER LEVEL 11.44 FEET BELOW LAND SURFACE DATUM JUL 18, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	6.90	DEC 15	7.66	FEB 16	7.00	APR 12	8.44	JUN 14	6.64	AUG 16	7.60
NOV 17	7.27	JAN 19	7.95	MAR 22	8.04	MAY 17	7.27	JUL 12	8.19	SEP 27	6.70

WELL NAME 03N 02W 26BAA1 SITE NUMBER 433433116323001

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 83 FT, CASED TO 34 FT. LATITUDE 43°34'33", LONGITUDE 116°32'30". LSD ABOUT 2,505 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 1.15 FT ABOVE LSD (SINCE JUN 17, 1993).

RECORDS AVAILABLE 1970, 1990, 1993, 1996 TO CURRENT YEAR
HIGHEST WATER LEVEL 17.59 FEET BELOW LAND SURFACE DATUM OCT 09, 1970.
LOWEST WATER LEVEL 24.77 FEET BELOW LAND SURFACE DATUM JUN 23, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	19.64	DEC 15	22.02	FEB 16	23.17	APR 12	24.11	JUN 14	22.37	AUG 16	22.62
NOV 17	20.71	JAN 19	22.76	MAR 22	23.45	MAY 17	22.38	JUL 12	23.15	SEP 27	21.14

WELL NAME 02N 03W 22DDC1 SITE NUMBER 432919116403701

DRILLED UNUSED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 603 FT, CASED TO 580 FT, PERFORATED 400-580 FT, GRAVEL PACKED 0-580 FT. LATITUDE 43°29'19", LONGITUDE 116°40'37". LSD ABOUT 2,750 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 3/4-IN SLOPING ACCESS PIPE ON SOUTHWEST SIDE, 0.90 FT ABOVE LSD (SINCE APR 27, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 313.00 FEET BELOW LAND SURFACE DATUM APR 27, 1967.
LOWEST WATER LEVEL 394.60 FEET BELOW LAND SURFACE DATUM JUL 21, 1982.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	384.87	DEC 15	384.52	FEB 16	384.76	APR 12	383.08	JUN 14	383.56	AUG 16	385.18
NOV 17	384.23	JAN 19	386.70	MAR 22	384.29	MAY 17	382.90	JUL 12	383.70	SEP 27	383.05

WELL NAME 02N 02W 22CCA1 SITE NUMBER 432928116340601

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 207 FT, CASED TO 205 FT. LATITUDE 43 29'28",LONGITUDE 116 34'06".LSD ABOUT 2,640 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTH SIDE, 1.95 FT ABOVE LSD (SINCE MAR 19, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 96.71 FEET BELOW LAND SURFACE DATUM MAR 22, 2000.
LOWEST WATER LEVEL 113.78 FEET BELOW LAND SURFACE DATUM JUL 12, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	98.24	DEC 15	97.10	FEB 16	97.91	APR 12	101.68	JUN 14	109.78	AUG 16	101.43
NOV 17	97.57	JAN 19	97.75	MAR 22	96.71	MAY 17	98.80	JUL 12	113.78	SEP 27	105.44

WELL NAME 02N 02W 32CDB1 SITE NUMBER 432743116362101

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 240 FT, CASED TO 225 FT. LATITUDE 43°27'43", LONGITUDE 116°36'21". LSD ABOUT 2,700 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 0.50 FT ABOVE LSD (SINCE DEC 08, 1969).

RECORDS AVAILABLE 1969-1970, 1993, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 144.10 FEET BELOW LAND SURFACE DATUM DEC 08, 1969.
LOWEST WATER LEVEL 165.34 FEET BELOW LAND SURFACE DATUM AUG 16, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	153.58	DEC 15	151.68	FEB 16	152.30	APR 12	154.33	JUN 14	159.79R	AUG 16	165.34
NOV 17	151.35	JAN 19	152.00	MAR 22	152.53	MAY 17	157.81	JUL 12	159.05	SEP 27	155.92

WELL NAME 02N 01W 07BBC1 SITE NUMBER 433145116304301

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 TO 4 IN, DEPTH 103 FT, 6-IN CASING TO 97 FT, 4-IN CASING 96-103 FT, PERFORATED 97-102 FT. LATITUDE 43°31'45", LONGITUDE 116°30'43". LSD 2,547.92 FT ABOVE SEA LEVEL. RECORDER INSTALLED AUG 19, 1953 TO NOV 24, 1971. MP NO. 4 EDGE OF CASING NORTHEAST SIDE, 1.83 FT ABOVE LSD (SINCE NOV 20, 1997).

RECORDS AVAILABLE 1953 TO CURRENT YEAR.
HIGHEST WATER LEVEL 5.80 FEET BELOW LAND SURFACE DATUM OCT 12, 1960.
LOWEST WATER LEVEL 20.33 FEET BELOW LAND SURFACE DATUM MAR 31, 1993.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	10.45	DEC 15	12.63	FEB 16	14.27	APR 12	15.01	JUN 14	13.11	AUG 16	12.70
NOV 17	11.51	JAN 19	13.62	MAR 22	14.92	MAY 17	14.25	JUL 12	12.64	SEP 27	11.00

WELL NAME 02N 01W 32CBB1 SITE NUMBER 432757116292601

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 20 TO 12 IN, DEPTH 240 FT, 16-IN CASING TO 19 FT, 12-IN CASING 150-240 FT, PERFORATED 150-234 FT. LATITUDE 43°27'57", LONGITUDE 116°29'26". LSD ABOUT 2,685 FT ABOVE SEA LEVEL. MP NO. 1 BOTTOM OF ACCESS HOLE UNDER PUMPBASE, 1.90 FT ABOVE LSD (SINCE MAR 21, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 108.82 FEET BELOW LAND SURFACE DATUM SEP 30, 1998.
LOWEST WATER LEVEL 123.09 FEET BELOW LAND SURFACE DATUM MAR 21, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	109.67	DEC 15	114.09	FEB 16	120.10	APR 12	121.29	JUN 14	118.98	AUG 16	113.40
NOV 17	111.33	JAN 19	116.38	MAR 22	120.26	MAY 17	120.35	JUL 12	120.92	SEP 27	109.57

WELL NAME 01N 03W 03DDD1 SITE NUMBER 432646116402101

DRILLED DOMESTIC WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 10 TO 8 IN, DEPTH 731 FT, 10-IN CASING TO 20 FT, 8-IN CASING 0-331 FT. LATITUDE 43°26'46", LONGITUDE 116°40'21". LSD ABOUT 2,715 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE SOUTH SIDE, 1.70 FT ABOVE LSD (SINCE JUN 29, 1989).

RECORDS AVAILABLE 1989 TO CURRENT YEAR.
HIGHEST WATER LEVEL 301.72 FEET BELOW LAND SURFACE DATUM OCT 21, 1999.
LOWEST WATER LEVEL 345.72 FEET BELOW LAND SURFACE DATUM AUG 16, 1989.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	301.72	DEC 15	304.30	FEB 16	303.47	APR 12	304.70	JUN 14	310.12	AUG 16	305.70
NOV 17	305.75	JAN 19	303.61	MAR 22	303.10	MAY 17	313.17	JUL 12	305.83	SEP 27	308.93

WELL NAME 01N 03W 13AAA1 SITE NUMBER 432548116375701

DRILLED IRRIGATION WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 20 IN, DEPTH 607 FT, 20-IN CASING TO 454 FT, 16-IN CASING 442-607 FT, PERFORATED 220-342 FT, 445-602 FT, GRAVEL PACKED. LATITUDE 43°25'48", LONGITUDE 116°37'57". LSD ABOUT 2,688 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 3/4-IN ACCESS HOLE IN PUMPBASE SOUTH SIDE, 0.80 FT ABOVE LSD (SINCE JUN 28, 1989).

RECORDS AVAILABLE 1989 TO CURRENT YEAR.
HIGHEST WATER LEVEL 195.40 FEET BELOW LAND SURFACE DATUM MAR 22, 2000.
LOWEST WATER LEVEL 286.39 FEET BELOW LAND SURFACE DATUM JUN 24, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 17	207.59	MAR 22	195.40	MAY 17	208.40	SEP 27	208.86

WELL NAME 01N 02W 05ADD1 SITE NUMBER 432708116353901

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 TO 10 IN, REPORTED DEPTH 720 FT, 12-IN CASING TO 423 FT, 10-IN CASING 415-625 FT, PERFORATED 415-625 FT. LATITUDE 43°27'08", LONGITUDE 116°35'39". LSD ABOUT 2,675 FT ABOVE SEA LEVEL. MP NO. 2 BOTTOM EDGE OF ACCESS PIPE EAST SIDE, 0.05 FT ABOVE LSD (SINCE FEB 24, 1998).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 128.70 FEET BELOW LAND SURFACE DATUM MAR 20, 1968.
LOWEST WATER LEVEL 201.76 FEET BELOW LAND SURFACE DATUM AUG 28, 1967.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 17	140.00	MAR 22	135.00	MAY 17	P	SEP 27	P

WELL NAME 01N 02W 10DAA1 SITE NUMBER 432613116331001

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 9 IN, DEPTH 150 FT, 8 1/2-IN CASING TO 19 FT. LATITUDE 43°26'13", LONGITUDE 116°33'10". LSD ABOUT 2,660 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.55 FT ABOVE LSD (SINCE MAR 19, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 93.77 FEET BELOW LAND SURFACE DATUM NOV 23, 1998.
LOWEST WATER LEVEL 103.08 FEET BELOW LAND SURFACE DATUM AUG 16, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	95.35	DEC 15	94.84	FEB 16	96.91	APR 12	95.98	JUN 14	97.14	AUG 16	103.08
NOV 17	94.65	JAN 19	94.93	MAR 22	97.41	MAY 17	97.03	JUL 12	97.25	SEP 27	96.65

WELL NAME 01S 02W 14CCC2 SITE NUMBER 431948116330001

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, REPORTED DEPTH 235 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°19'48", LONGITUDE 116°33'00". LSD ABOUT 2,390 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 8.00 FT BELOW LSD (SINCE OCT 26, 1962)

RECORDS AVAILABLE 1962 TO CURRENT YEAR.
HIGHEST WATER LEVEL 42.42 FEET BELOW LAND SURFACE DATUM SEP 28, 1966.
LOWEST WATER LEVEL 74.87 FEET BELOW LAND SURFACE DATUM MAR 15, 1977.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	44.65	DEC 15	46.12	FEB 16	47.57	APR 12	48.84	JUN 14	47.35	AUG 16	45.18
NOV 17	46.55	JAN 19	47.05	MAR 22	48.30	MAY 17	48.50	JUL 12	46.56	SEP 27	44.19

CUSTER COUNTY

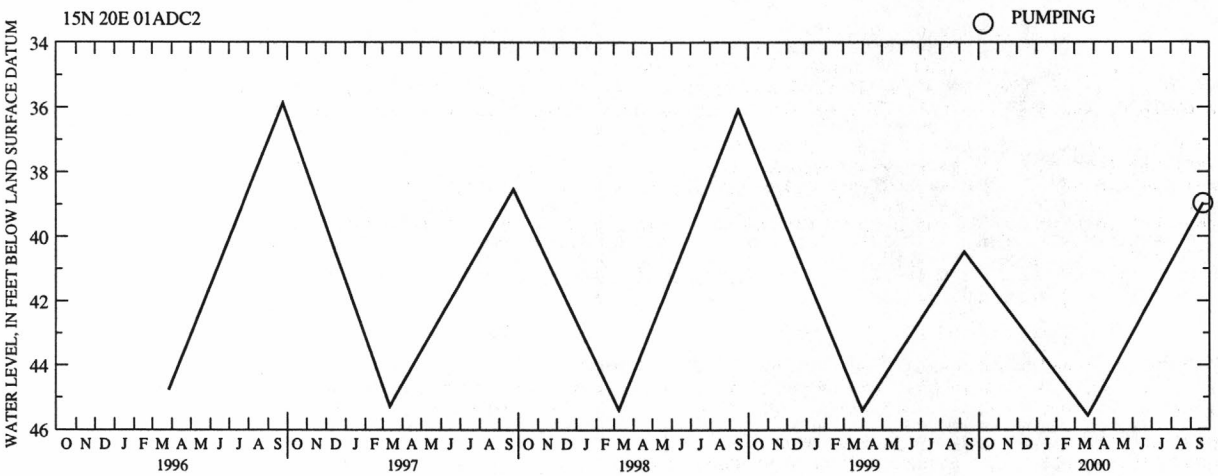
WELL NAME 15N 20E 01ADC2 SITE NUMBER 443942114021302

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 80 FT, 6-IN CASING TO 40 FT. LATITUDE 44°39'44", LONGITUDE 114°02'13". LSD ABOUT 4,748 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING WEST SIDE, 1.25 FT ABOVE LSD (SINCE MAY 24, 1989).

RECORDS AVAILABLE 1989 TO CURRENT YEAR.
HIGHEST WATER LEVEL 31.84 FEET BELOW LAND SURFACE DATUM JUL 17, 1990.
LOWEST WATER LEVEL 45.57 FEET BELOW LAND SURFACE DATUM MAR 22, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 22 45.57 SEP 21 38.97P



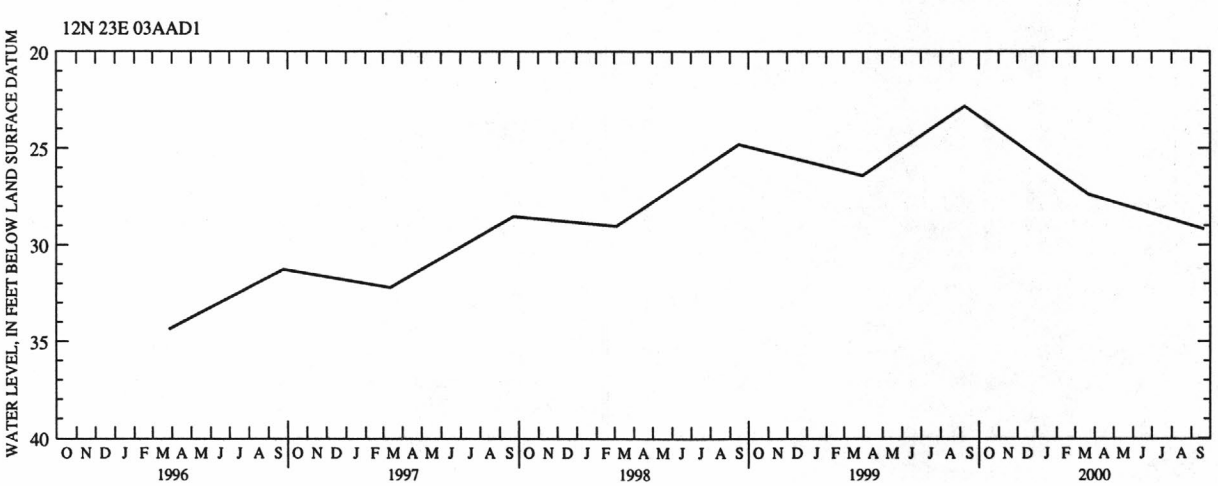
WELL NAME 12N 23E 03AAD1 SITE NUMBER 442412113423601

FORMERLY WELL NAME 12N 23E 02BBC1. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 20 IN, DEPTH 127.7 FT, CASING DEPTH AND PERFORATED INTERVAL NOT AVAILABLE. LATITUDE 44°24'12", LONGITUDE 113°42'36". LSD ABOUT 5,908 FT ABOVE SEA LEVEL. MP NO. 4 TOP OF 1/2-IN ACCESS HOLE IN WEST SIDE OF PUMPBASE, 1.42 FT ABOVE LSD (SINCE SEP 24, 1996).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.
HIGHEST WATER LEVEL 9.80 FEET BELOW LAND SURFACE DATUM JUL 17, 1984.
LOWEST WATER LEVEL 36.13 FEET BELOW LAND SURFACE DATUM SEP 21, 1994.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 22 27.38 SEP 21 29.18



ELMORE COUNTY

WELL NAME 01S 04E 10DAD1 SITE NUMBER 432055115571801

DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 10 TO 6 IN, DEPTH 525 FT, 10-IN CASING TO 496 FT, 6-IN SCREEN 485-525 FT. LATITUDE 43°20'55", LONGITUDE 115°57'18". LSD ABOUT 3,300 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAY 04, 1961 TO JUL 20, 1964. MP NO.2 TOP OF 5/8-IN ACCESS HOLE, 2.46 FT ABOVE LSD (SINCE MAR 25, 1980).

RECORDS AVAILABLE 1960 TO CURRENT YEAR.
HIGHEST WATER LEVEL 338.39 FEET BELOW LAND SURFACE DATUM SEP 22, 2000.
LOWEST WATER LEVEL 342.40 FEET BELOW LAND SURFACE DATUM MAR 05, 1974.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 29 338.54 SEP 22 338.39

WELL NAME 02S 05E 26BDB1 SITE NUMBER 431329115495301

DRILLED UNUSED WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 8 IN, DEPTH 428.5 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°13'29", LONGITUDE 115°49'53". LSD ABOUT 3,025 FT ABOVE SEA LEVEL. FEB 27, 1985, WELL HAD FILLED IN TO A DEPTH OF 402.6 FT. MP NO. 1 TOP OF 7/8-IN ACCESS HOLE SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE DEC 28, 1960).

RECORDS AVAILABLE 1960, 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL 307.02 FEET BELOW LAND SURFACE DATUM AUG 22, 1977.
LOWEST WATER LEVEL 314.25 FEET BELOW LAND SURFACE DATUM JAN 16, 1979.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 29 312.57 SEP 22 312.69

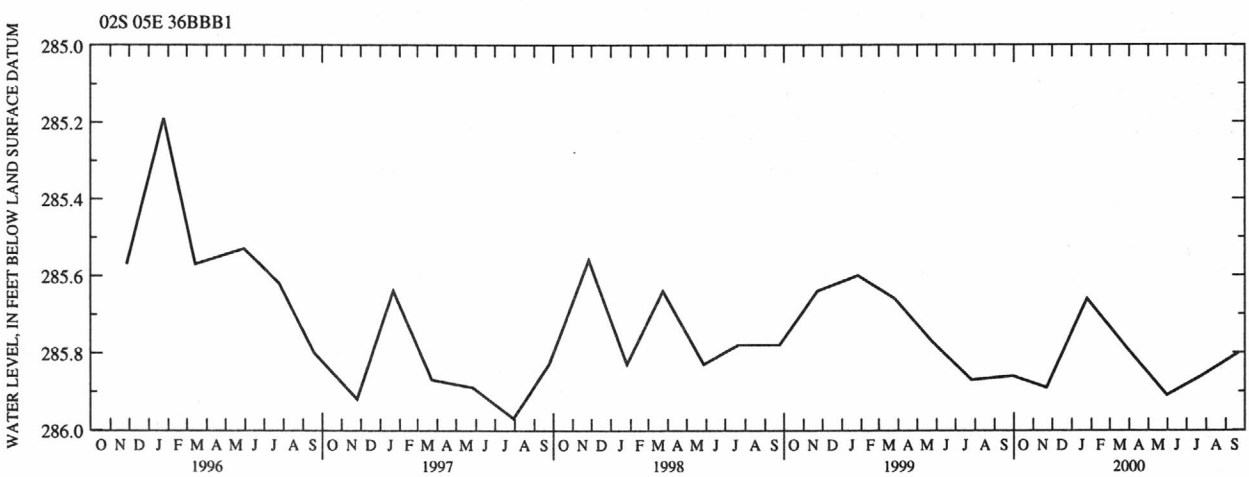
WELL NAME 02S 05E 36BBB1 SITE NUMBER 431242115485501

DRILLED UNUSED WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 6 IN, DEPTH 356.9 FT, CASED TO 50 FT. LATITUDE 43°12'42", LONGITUDE 115°48'55". LSD ABOUT 3,190 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUN 23, 1967 TO NOV 15, 1971. MP NO. 3 EDGE OF CASING NORTHEAST SIDE, 2.00 FT ABOVE LSD (SINCE JUN 23, 1967).

RECORDS AVAILABLE 1960 TO CURRENT YEAR.
HIGHEST WATER LEVEL 280.97 FEET BELOW LAND SURFACE DATUM NOV 21, 1977.
LOWEST WATER LEVEL 285.97 FEET BELOW LAND SURFACE DATUM JUL 30, 1997.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 22 285.89 JAN 25 285.66 MAR 29 285.79 MAY 31 285.91 JUL 25 285.86 SEP 22 285.80



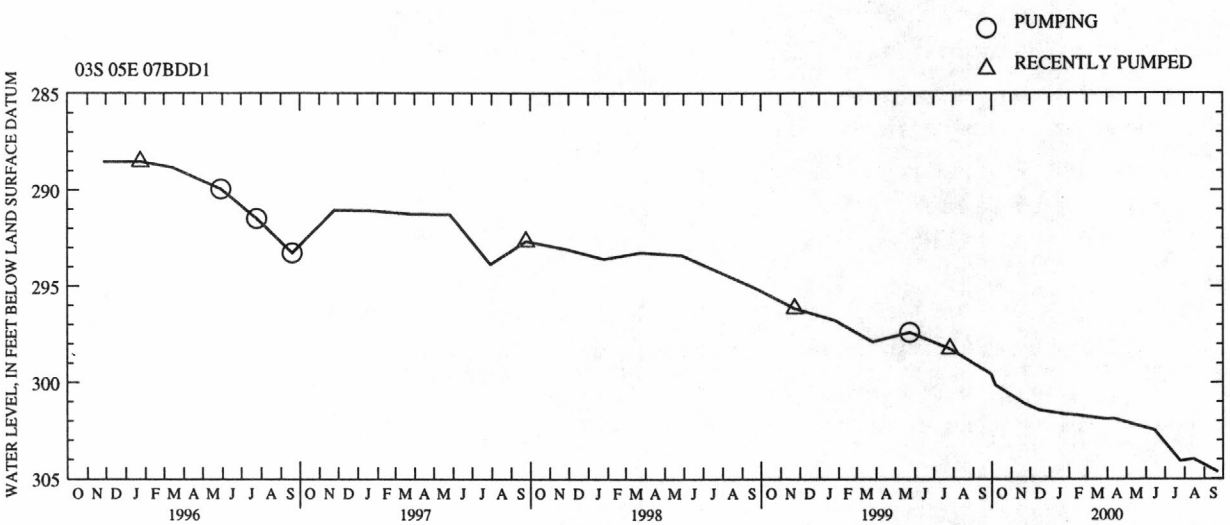
WELL NAME 03S 05E 07BDD1 SITE NUMBER 431044115542901

DRILLED DOMESTIC WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 18 TO 12 IN, DEPTH 497 FT, 18-IN CASING TO 110 FT, 12-IN CASING 0-334 FT, PERFORATED 240-332 FT. LATITUDE 43°10'44", LONGITUDE 115°54'29". LSD ABOUT 3,074 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF 1/2-IN ACCESS HOLE EAST SIDE, 2.10 FT ABOVE LSD (SINCE JUL 25, 1994).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL 241.35 FEET BELOW LAND SURFACE DATUM MAY 25, 1976.
LOWEST WATER LEVEL 304.65 FEET BELOW LAND SURFACE DATUM SEP 22, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 07	300.13	DEC 15	301.43	FEB 14	301.70	APR 12	301.88	JUN 15	302.48	AUG 15	303.97
NOV 22	301.09	JAN 25	301.64	MAR 29	301.90	MAY 31	302.34	JUL 25	304.07	SEP 22	304.65



WELL NAME 03S 06E 13BBA1 SITE NUMBER 431011115411001

DRILLED DOMESTIC WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 12 IN, REPORTED DEPTH 150 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°10'11", LONGITUDE 115°41'10". LSD ABOUT 3,240 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF 5/8-IN ACCESS HOLE EAST SIDE, 1.50 FT ABOVE LSD (SINCE JAN 09, 1996).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL 20.15 FEET BELOW LAND SURFACE DATUM MAY 27, 1997.
LOWEST WATER LEVEL 60.88 FEET BELOW LAND SURFACE DATUM SEP 14, 1981.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 22	25.15	JAN 25	24.61	MAR 28	24.32	MAY 31	27.55	JUL 25	34.30	SEP 22	33.53

WELL NAME 03S 06E 35BCC1 SITE NUMBER 430716115425101

DRILLED DOMESTIC WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 12 IN, DEPTH 857 FT, CASED TO 598 FT, PERFORATED 6-264 FT. LATITUDE 43°07'16", LONGITUDE 115°42'51". LSD ABOUT 3,145 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF CASING, 1.90 FT ABOVE LSD (SINCE APR 19, 1999).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 385.00 FEET BELOW LAND SURFACE DATUM NOV 03, 1967.
LOWEST WATER LEVEL 450.20 FEET BELOW LAND SURFACE DATUM SEP 22, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 07	443.25	NOV 24	443.40	JAN 25	435.29	MAR 28	433.90	MAY 31	444.30	AUG 15	449.18
NOV 16	438.66	DEC 15	437.20	FEB 14	434.85	APR 12	437.27	JUN 15	444.88	SEP 22	450.20

ELMORE COUNTY--continued

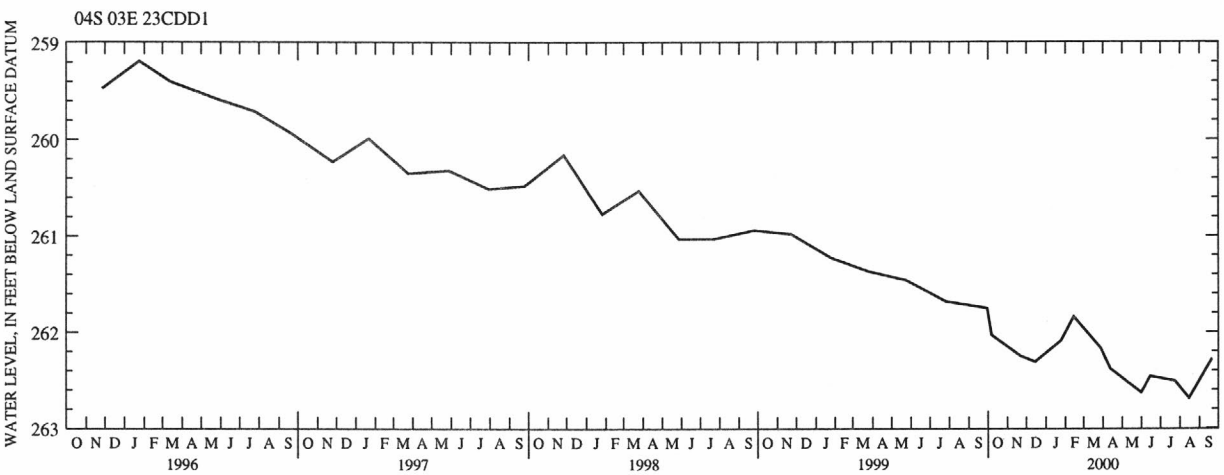
WELL NAME 04S 03E 23CDD1 SITE NUMBER 430321116040101

DRILLED UNUSED WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 20 IN, DEPTH 600 FT, CASED TO 65.5 FT. LATITUDE 43°03'21", LONGITUDE 116°04'01". LSD ABOUT 2,917 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 1-IN COUPLING, 1.65 FT ABOVE LSD (SINCE APR 15, 1976).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL 242.69 FEET BELOW LAND SURFACE DATUM JAN 22, 1977.
LOWEST WATER LEVEL 262.69 FEET BELOW LAND SURFACE DATUM AUG 15, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 07	262.03	DEC 15	262.31	FEB 14	261.84	APR 12	262.38	JUN 15	262.46	AUG 15	262.69
NOV 22	262.25	JAN 25	262.09	MAR 28	262.17	MAY 31	262.63	JUL 24	262.51	SEP 21	262.28



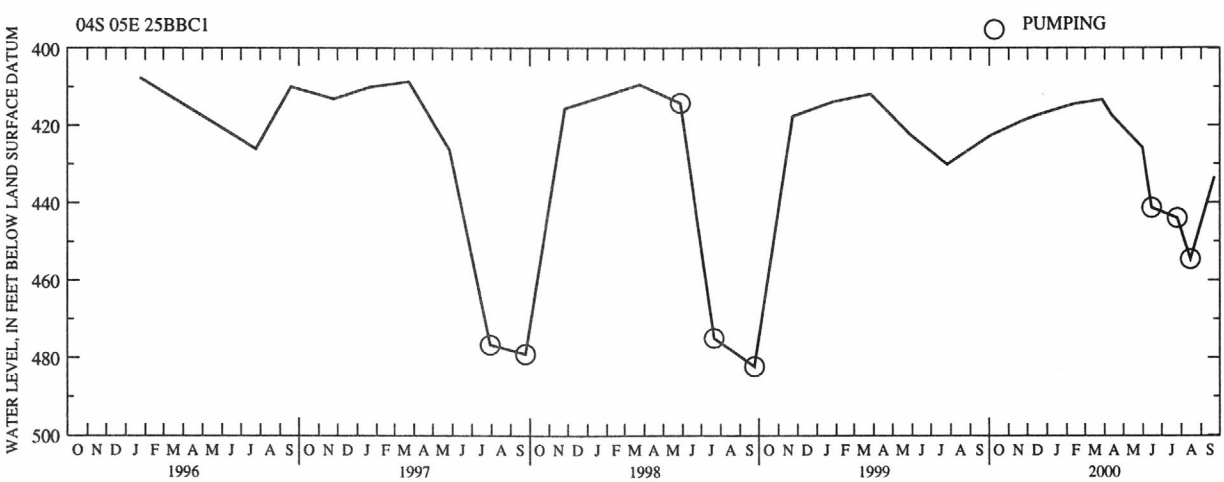
WELL NAME 04S 05E 25BBC1 SITE NUMBER 430310115485701

DRILLED IRRIGATION WATER-TABLE WELL IN BRUNEAU FORMATION, REPORTED DEPTH 530 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°03'10", LONGITUDE 115°48'57". LSD ABOUT 3,048 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE INSIDE PUMPBASE NORTH SIDE, 1.20 FT ABOVE LSD (SINCE SEP 25, 1979).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 359.05 FEET BELOW LAND SURFACE DATUM JAN 27, 1967.
LOWEST WATER LEVEL 433.52 FEET BELOW LAND SURFACE DATUM SEP 22, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 07	422.34	DEC 15	417.40	FEB 14	414.45	APR 12	417.34	JUN 15	441.28P	AUG 15	454.54P
NOV 22	418.78	JAN 25	415.32	MAR 28	413.33	MAY 31	425.78	JUL 25	443.99P	SEP 22	433.52



WELL NAME 04S 10E 30BBA1 SITE NUMBER 430310115190801

DRILLED UNUSED WATER-TABLE WELL IN GLENNS FERRY FORMATION, DIAM 16 IN, DEPTH 2,265 FT, 20-IN CASING TO 400 FT, 16-IN CASING 0-1,497 FT. LATITUDE 43°03'10", LONGITUDE 115°19'08". LSD ABOUT 3,455 FT ABOVE SEA LEVEL. SEP 02, 1970, WELL HAD FILLED IN TO A DEPTH OF 1,481 FT. MP NO. 1 TOP OF ACCESS HOLE, 1.70 FT ABOVE LSD (SINCE FEB 03, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 257.33 FEET BELOW LAND SURFACE DATUM MAR 23, 1968.
LOWEST WATER LEVEL 272.38 FEET BELOW LAND SURFACE DATUM MAR 12, 1998.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 07 267.38 SEP 06 270.13

WELL NAME 05S 04E 05BCD1 SITE NUMBER 430114116003701

DRILLED IRRIGATION WATER-TABLE WELL IN GLENNS FERRY FORMATION, DIAM 24-20-16 IN, DEPTH 370 FT, 20-IN CASING TO 59 FT, 16-IN CASING 0-229 FT, 14-IN CASING 218-318.5 FT, 10-IN CASING 312-367 FT, PERFORATED 162-318.5 FT, 322-360 FT. LATITUDE 43°01'14", LONGITUDE 116°00'37". LSD ABOUT 2,855 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF ACCESS HOLE, 0.80 FT ABOVE LSD (SINCE JUN 20, 1991).

RECORDS AVAILABLE 1987 TO CURRENT YEAR.
HIGHEST WATER LEVEL 218.57 FEET BELOW LAND SURFACE DATUM MAR 06, 1990.
LOWEST WATER LEVEL 281.74 FEET BELOW LAND SURFACE DATUM SEP 21, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 07	271.47	DEC 15	261.94	FEB 14	258.29	APR 12	267.45	JUN 15	277.69	AUG 15	281.04
NOV 22	263.64	JAN 25	261.94	MAR 28	257.05	MAY 31	274.13	JUL 24	280.05	SEP 21	281.74

WELL NAME 05S 08E 36CCC1 SITE NUMBER 425621115273501

DRILLED UNUSED WATER-TABLE WELL IN MELON GRAVEL, DIAM 6 IN, REPORTED DEPTH 90 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°56'21", LONGITUDE 115°27'35". LSD ABOUT 2,536 FT ABOVE SEA LEVEL. MP NO. 5 EDGE OF CASING, 1.01 FT ABOVE LSD (SINCE JAN 27, 1993).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 55.49 FEET BELOW LAND SURFACE DATUM SEP 21, 1974.
LOWEST WATER LEVEL 66.19 FEET BELOW LAND SURFACE DATUM MAY 27, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 28 65.63 SEP 21 64.09

WELL NAME 05S 10E 28CAB1 SITE NUMBER 425734115163401

DRILLED DOMESTIC ARTESIAN WELL IN GLENNS FERRY FORMATION, DIAM 8 IN, DEPTH 1,100 FT, CASED TO 146 FT. LATITUDE 42°57'34", LONGITUDE 115°16'34". LSD 2,543.25 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF 1 1/4-IN ACCESS HOLE, 1.21 FT ABOVE LSD (SINCE DEC 04, 1990).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL +4.03 FEET ABOVE LAND SURFACE DATUM APR 19, 1978.
LOWEST WATER LEVEL 17.17 FEET BELOW LAND SURFACE DATUM OCT 19, 1998.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 21	13.28	DEC 15	12.10	FEB 17	10.42	APR 28	10.57	JUN 28	11.65	AUG 07	12.63
NOV 22	12.99	JAN 24	10.99	MAR 07	9.77	MAY 11	11.12	JUL 31	12.58	SEP 06	11.97

WELL NAME 06S 10E 31CCC1 SITE NUMBER 425105115191801

DRILLED DOMESTIC WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 8 TO 6 IN, DEPTH 655 FT, 6-IN CASING TO 435 FT, PERFORATED 380-430 FT. LATITUDE 42°51'05", LONGITUDE 115°19'18". LSD ABOUT 3,050 FT ABOVE SEA LEVEL. MP NO. 1 1/2-IN ACCESS HOLE, 1.45 FT ABOVE LSD (SINCE MAR 03, 1982).

RECORDS AVAILABLE 1982 TO CURRENT YEAR.
HIGHEST WATER LEVEL 299.01 FEET BELOW LAND SURFACE DATUM MAY 03, 1999.
LOWEST WATER LEVEL 305.56 FEET BELOW LAND SURFACE DATUM OCT 20, 1987.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 22	299.37	JAN 26	298.98	MAR 07	298.72	MAY 11	298.88	JUL 31	298.97	SEP 06	299.11

ELMORE COUNTY--continued

WELL NAME 06S 11E 06BBA1 SITE NUMBER 425617115120001

DRILLED DOMESTIC WATER-TABLE WELL IN GLENNS FERRY FORMATION, DIAM 6 IN, REPORTED DEPTH 445 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°56'17", LONGITUDE 115°12'00". LSD ABOUT 2,680 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE EAST SIDE, 0.60 FT ABOVE LSD (SINCE FEB 15, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 107.21 FEET BELOW LAND SURFACE DATUM FEB 15, 1967.
LOWEST WATER LEVEL 131.72 FEET BELOW LAND SURFACE DATUM MAY 07, 1991.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 22 128.39R JAN 24 127.69 MAR 07 127.91R MAY 11 128.48 JUL 31 128.49 SEP 06 128.38

WELL NAME 07S 10E 22DDD1 SITE NUMBER 424749115153101

DRILLED DOMESTIC WATER-TABLE WELL IN GLENNS FERRY FORMATION, DIAM 8 IN, DEPTH 735 FT, CASED TO 735 FT, PERFORATED 695-735 FT. LATITUDE 42°47'49", LONGITUDE 115°15'31". LSD ABOUT 3,158 FT ABOVE SEA LEVEL. MP NO. 3 BOTTOM LIP OF 1-IN PVC PIPE, 4.00 FT ABOVE LSD (SINCE MAY 09, 1997).

RECORDS AVAILABLE 1982, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 253.09 FEET BELOW LAND SURFACE DATUM MAR 12, 1992.
LOWEST WATER LEVEL 284.38 FEET BELOW LAND SURFACE DATUM NOV 13, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 22 274.33 MAR 07 274.07 MAY 11 271.73 SEP 06 274.43

GEM COUNTY

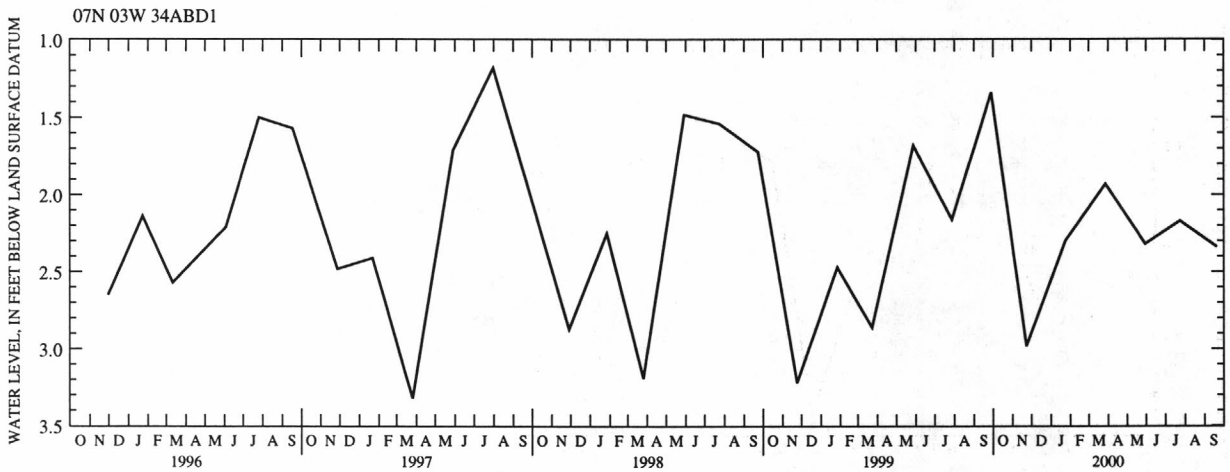
WELL NAME 07N 03W 34ABD1 SITE NUMBER 435424116403701

FORMERLY SITE NUMBER 435426116403701. DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DEPTH 22.8 FT, 1 1/4-IN PIEZOMETER TUBE TO 23.1 FT, PERFORATED 18-21 FT, GRAVEL FILL 0-35 FT, CONCRETE SEAL 35-45 FT. LATITUDE 43°54'24", LONGITUDE 116°40'37". LSD 2,267.80 FT ABOVE SEA LEVEL. MEASUREMENTS PRIOR TO DEC 03, 1971 MADE BY U.S. BUREAU OF RECLAMATION. MP NO. 1 TOP OF 1 1/4-IN PIPE NORTHWEST SIDE, 1.06 FT ABOVE LSD (SINCE JUL 24, 1968).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.
HIGHEST WATER LEVEL .82 FEET BELOW LAND SURFACE DATUM OCT 16, 1979.
LOWEST WATER LEVEL 3.74 FEET BELOW LAND SURFACE DATUM MAR 30, 1994.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 23	2.98	JAN 24	2.30	MAR 27	1.93	MAY 30	2.32	JUL 24	2.17	SEP 20	2.34



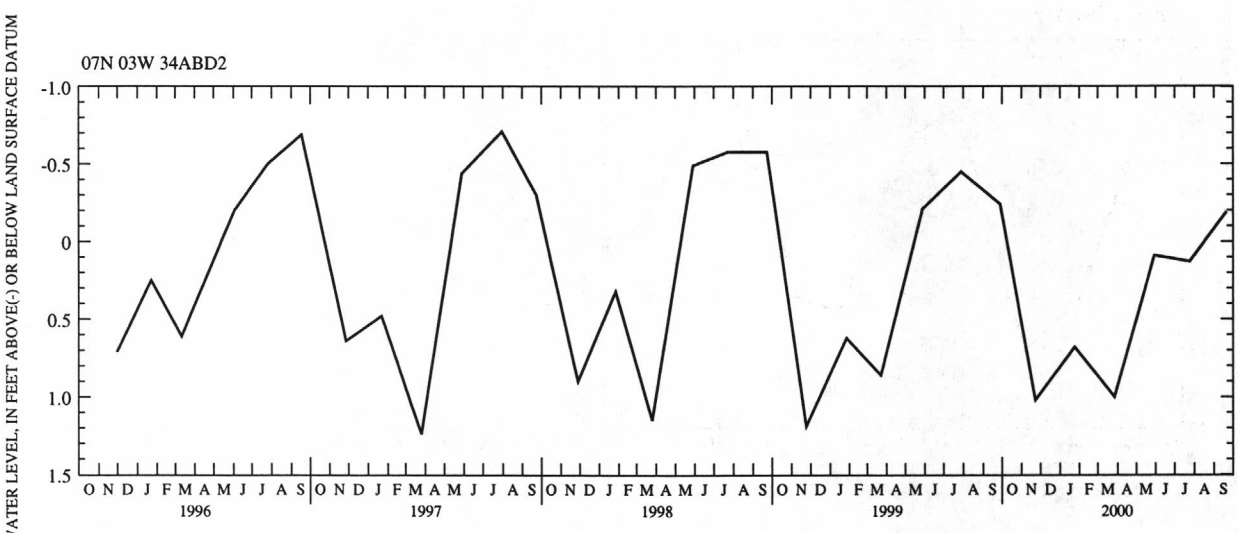
WELL NAME 07N 03W 34ABD2 SITE NUMBER 435424116403702

FORMERLY SITE NUMBER 435426116403702. DRILLED OBSERVATION ARTESIAN WELL IN IDAHO GROUP, DEPTH 54.4 FT, 3/4-IN PIEZOMETER TUBE TO 56.2 FT, PERFORATED 51.2-52.7 FT, GRAVEL FILL 45-55 FT, CONCRETE SEAL 35-45 FT, 55-70 FT. LATITUDE 43°54'24", LONGITUDE 116°40'37". LSD 2,267.80 FT ABOVE SEA LEVEL. MEASUREMENTS PRIOR TO DEC 03, 1971 MADE BY U.S. BUREAU OF RECLAMATION. MP NO. 1 TOP OF 3/4-IN PIPE NORTHWEST SIDE, 1.06 FT ABOVE LSD (SINCE JUL 24, 1968).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.
HIGHEST WATER LEVEL +1.06 FEET ABOVE LAND SURFACE DATUM AUG 27, 1970.
LOWEST WATER LEVEL 1.63 FEET BELOW LAND SURFACE DATUM MAR 30, 1994.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM,(READINGS ABOVE LAND SURFACE INDICATED BY "+")
WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 23	1.02	JAN 24	.68	MAR 27	1.00	MAY 30	.09	JUL 24	.13	SEP 20	+.19



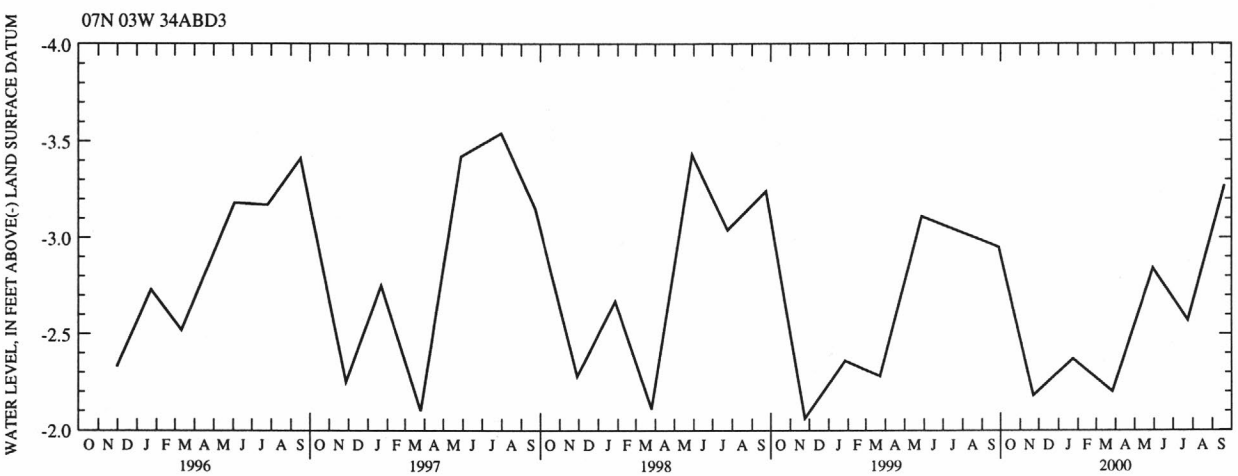
WELL NAME 07N 03W 34ABD3 SITE NUMBER 435424116403703

FORMERLY SITE NUMBER 435426116403703. DRILLED OBSERVATION ARTESIAN WELL IN IDAHO GROUP, DEPTH 85.5 FT, 3/4-IN PIEZOMETER TUBE TO 85 FT, PERFORATED 80-81.5 FT, GRAVEL FILL 70-85.5 FT, CONCRETE SEAL 55-70 FT. LATITUDE 43°54'24", LONGITUDE 116°40'37". LSD 2,267.80 FT ABOVE SEA LEVEL. MEASUREMENTS PRIOR TO DEC 03, 1971 MADE BY U.S. BUREAU OF RECLAMATION. RECORDER INSTALLED APR 17, 1969 TO MAY 28, 1971. MP NO. 2 EDGE OF 4-IN CASING NORTHWEST SIDE, 5.52 FT ABOVE LSD (SINCE JUL 28, 1968).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.
HIGHEST WATER LEVEL +4.41 FEET ABOVE LAND SURFACE DATUM MAY 20, 1976.
LOWEST WATER LEVEL +1.56 FEET ABOVE LAND SURFACE DATUM MAR 30, 1994.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 22	+2.18	JAN 24	+2.37	MAR 27	+2.20	MAY 30	+2.84	JUL 24	+2.57	SEP 20	+3.27



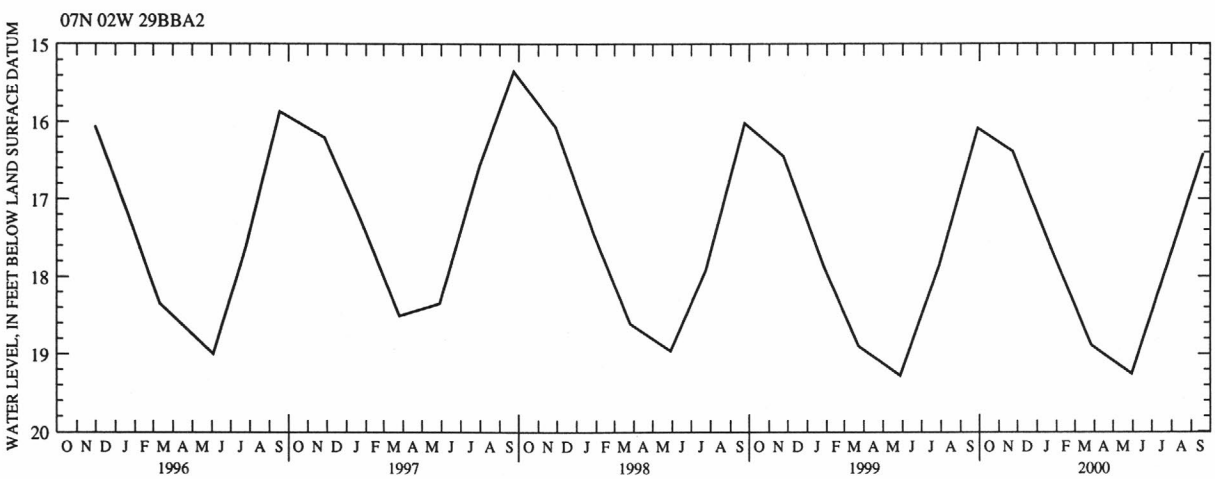
WELL NAME 07N 02W 29BBA2 SITE NUMBER 435523116362601

FORMERLY SITE NUMBER 435524116362801. DRILLED OBSERVATION ARTESIAN WELL IN IDAHO GROUP, DIAM 6 IN, DEPTH 301.7 FT, CASED TO 301.7 FT. LATITUDE 43°55'23", LONGITUDE 116°36'26". LSD 2,396.60 FT ABOVE SEA LEVEL. NOV 10, 1971, WELL HAD FILLED IN TO A DEPTH OF 291.3 FT. MEASUREMENTS PRIOR TO NOV 10, 1971 MADE BY U.S. BUREAU OF RECLAMATION. RECORDER INSTALLED JUN 26, 1969 TO MAY 28, 1971. MP NO. 1 EDGE OF CASING SOUTH SIDE, 0.90 FT ABOVE LSD (SINCE JUN 26, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 15.14 FEET BELOW LAND SURFACE DATUM SEP 29, 1992.
LOWEST WATER LEVEL 23.85 FEET BELOW LAND SURFACE DATUM JUN 26, 1969.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 23	16.39	JAN 24	17.66	MAR 27	18.89	MAY 30	19.26	JUL 24	17.88	SEP 20	16.42



GEM COUNTY--continued

WELL NAME 06N 01W 18DAA2 SITE NUMBER 435125116293201

FORMERLY SITE NUMBER 435125116293501. DRILLED DOMESTIC ARTESIAN WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 4 IN, DEPTH 30.9 FT, CASED TO 22 FT. LATITUDE 43°51'25", LONGITUDE 116°29'32". LSD 2,371.90 FT ABOVE SEA LEVEL. MEASUREMENTS PRIOR TO NOV 09, 1971 MADE BY U.S. BUREAU OF RECLAMATION. RECORDER INSTALLED OCT 17, 1968 TO MAY 28, 1971. MP NO. 1 EDGE OF CASING NORTH SIDE, 0.26 FT ABOVE LSD (SINCE NOV 09, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 3.04 FEET BELOW LAND SURFACE DATUM AUG 24, 1970.
LOWEST WATER LEVEL 8.57 FEET BELOW LAND SURFACE DATUM MAR 14, 1977.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 23	6.26	JAN 24	6.43	MAR 27	6.68	MAY 30	5.89	JUL 24	5.37	SEP 20	5.08

KOOTENAI COUNTY

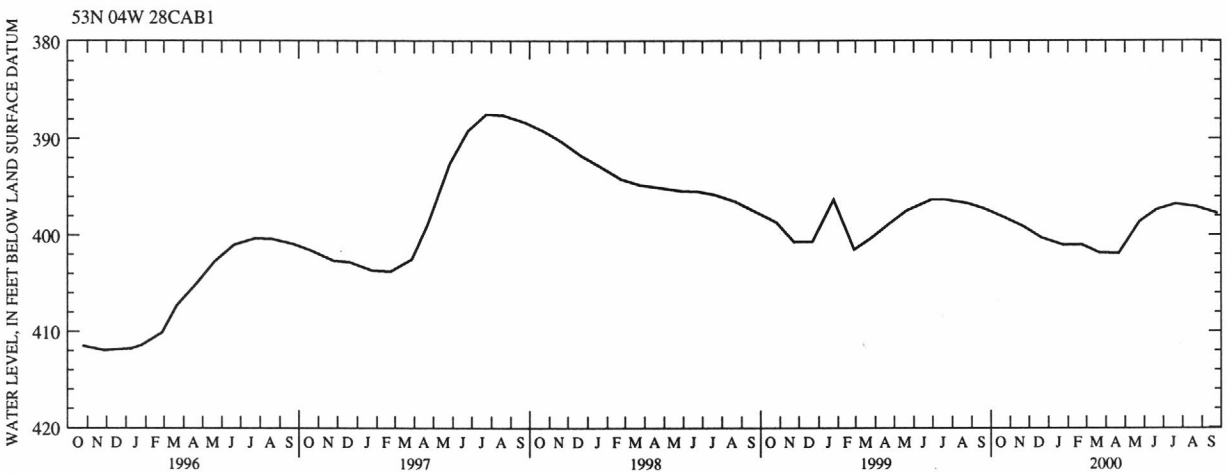
WELL NAME 53N 04W 28CAB1 SITE NUMBER 475439116503401

DRILLED OBSERVATION WATER-TABLE WELL IN POORLY SORTED TILL OF QUATERNARY AGE, DIAM 6 IN, DEPTH 448.6 FT, CASED TO 440 FT, SCREENED 438-448 FT. LATITUDE 47°54'39", LONGITUDE 116°50'34". LSD 2,426.27 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTHEAST SIDE, 2.30 FT ABOVE LSD (SINCE JUL 16, 1971).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.
HIGHEST WATER LEVEL 387.51 FEET BELOW LAND SURFACE DATUM JUL 24, 1997.
LOWEST WATER LEVEL 420.72 FEET BELOW LAND SURFACE DATUM JAN 27, 1995.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 26	398.26	DEC 20	400.27	FEB 22	401.00	APR 21	401.92	JUN 20	397.39	AUG 23	397.07
NOV 22	399.10	JAN 24	401.04	MAR 21	401.85	MAY 24	398.60	JUL 21	396.78	SEP 25	397.76



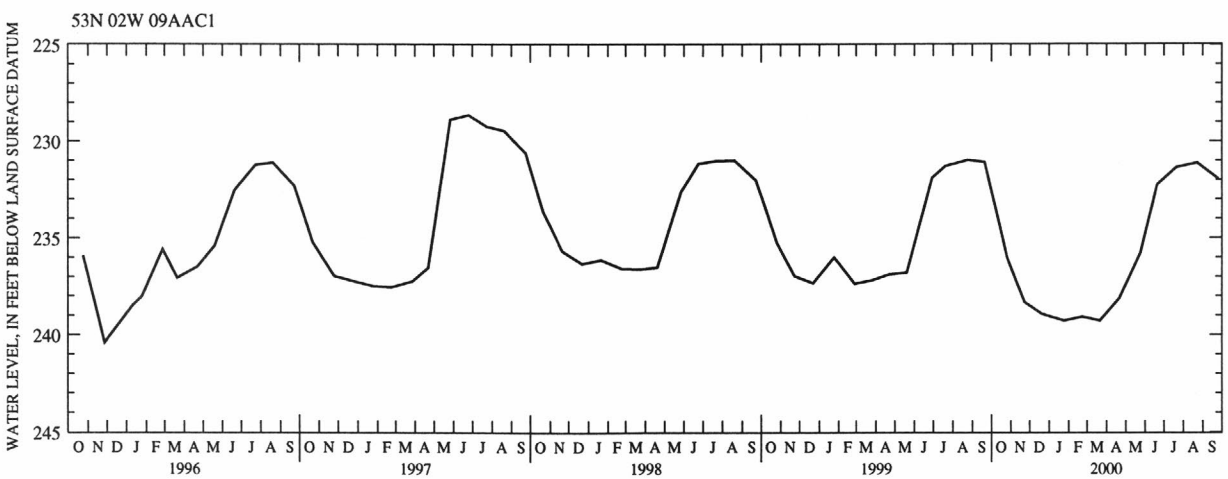
WELL NAME 53N 02W 09AAC1 SITE NUMBER 475736116341701

DRILLED UNUSED WATER-TABLE WELL IN FLUVIOGLACIAL SAND AND GRAVEL OF QUATERNARY AGE, DIAM 16 IN, DEPTH 351 FT, CASED TO 351 FT, PERFORATED 280-345 FT. LATITUDE 47°57'36", LONGITUDE 116°34'17". LSD 2,291.46 FT ABOVE SEA LEVEL. NOV 1966 WELL BECAME BRIDGED, AUG 1968, DROVE OBSTRUCTION DOWN TO 335 FT. AUG 1968 DEPTH SOUNDED AT 331 FT. DEC 13, 1943 THROUGH DEC 29, 1948 MEASUREMENTS MADE BY A.E. HOLTEN, FARRAGUT INSTITUTE, USING AN AIRLINE. RECORDER INSTALLED OCT 25, 1950 TO FEB 04, 1962. MP NO. 9 EDGE OF 2-IN PIPE, 0.48 FT ABOVE LSD (SINCE FEB 23, 1983).

RECORDS AVAILABLE 1943 TO CURRENT YEAR.
HIGHEST WATER LEVEL 228.00 FEET BELOW LAND SURFACE DATUM JUN 08, 1948.
LOWEST WATER LEVEL 252.00 FEET BELOW LAND SURFACE DATUM JAN 02, 1944.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 26	236.01	DEC 20	238.94	FEB 22	239.08	APR 21	238.12	JUN 20	232.27	AUG 23	231.13
NOV 23	238.34	JAN 24	239.28	MAR 21	239.29	MAY 24	235.78	JUL 21	231.36	SEP 25	231.96



WELL NAME 52N 04W 20CCB1 SITE NUMBER 475002116521101

DRILLED DOMESTIC WATER-TABLE WELL IN GLACIAL OUTWASH GRAVELS, DIAM 8 TO 6 IN, DEPTH 500 FT, 8-IN CASING TO 242 FT, PERFORATED 225-240 FT. LATITUDE 47°50'02", LONGITUDE 116°52'11". LSD 2,266.67 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 1 1/4-IN ACCESS HOLE, 1.80 FT ABOVE LSD (SINCE APR 03, 1977).

RECORDS AVAILABLE 1977-1978, 1987 TO CURRENT YEAR.
HIGHEST WATER LEVEL 212.94 FEET BELOW LAND SURFACE DATUM MAR 28, 1997.
LOWEST WATER LEVEL 235.84 FEET BELOW LAND SURFACE DATUM MAR 21, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 22	227.36	JAN 24	226.68	MAR 02	224.47	MAY 24	223.22	JUL 21	225.56	SEP 25	225.35

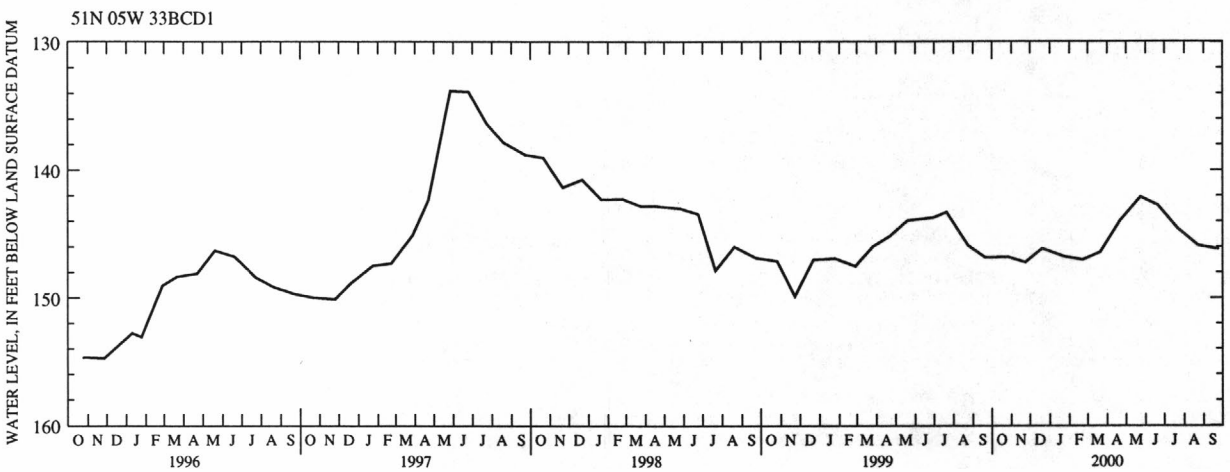
WELL NAME 51N 05W 33BCD1 SITE NUMBER 474329116582801

DUG UNUSED IRRIGATION WELL IN FLUVIOGLACIAL GRAVEL OF QUATERNARY AGE, DIAM 28 IN, DEPTH 190 FT, CASED TO 190 FT, SLOTTED CASING. LATITUDE 47°43'29", LONGITUDE 116°58'28". LSD 2,141.58 FT ABOVE SEA LEVEL. NOV 23, 1993, WELL DEPTH SOUNDED AT 180 FT. MP NO. 1 EDGE OF 6-IN CASING, 1.65 FT ABOVE LSD (SINCE MAR 11, 1977).

RECORDS AVAILABLE 1977 TO CURRENT YEAR.
HIGHEST WATER LEVEL 133.80 FEET BELOW LAND SURFACE DATUM MAY 27, 1997.
LOWEST WATER LEVEL 164.53 FEET BELOW LAND SURFACE DATUM SEP 21, 1994.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 26	146.80	DEC 20	146.16	FEB 22	147.02	APR 21	143.95	JUN 20	142.75	AUG 23	145.90
NOV 23	147.22	JAN 24	146.78	MAR 21	146.42	MAY 24	142.10	JUL 21	144.57	SEP 25	146.22



LATAH COUNTY

WELL NAME 39N 06W 12DAA1 SITE NUMBER 464407117012601

DRILLED PUBLIC SUPPLY ARTESIAN WELL IN COLUMBIA RIVER BASALT, DIAM 26 TO 10 IN, DEPTH 747 FT, 26-IN CASING TO 17 FT, 20-IN CASING 0-505 FT, UNKNOWN DIAM CASING 474-534 FT, 10-IN CASING 511-671 FT. LATITUDE 46°44'07", LONGITUDE 117°01'26". LSD ABOUT 2,538 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 1.13 FT ABOVE LSD (SINCE MAR 14, 1985).

RECORDS AVAILABLE 1985, 1987 TO CURRENT YEAR.
HIGHEST WATER LEVEL 282.41 FEET BELOW LAND SURFACE DATUM MAR 14, 1985.
LOWEST WATER LEVEL 301.23 FEET BELOW LAND SURFACE DATUM SEP 11, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 15 300.21 SEP 11 301.23

WELL NAME 39N 05W 05BBB2 SITE NUMBER 464531116595601

DRILLED DOMESTIC WATER-TABLE WELL IN LATAH FORMATION, DIAM 6 IN, DEPTH 118 FT, CASED TO 118 FT. LATITUDE 46°45'31", LONGITUDE 116°59'56". LSD ABOUT 2,705 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE, 1.45 FT ABOVE LSD (SINCE MAR 13, 1985).

RECORDS AVAILABLE 1972, 1985, 1987 TO CURRENT YEAR.
HIGHEST WATER LEVEL 50.20 FEET BELOW LAND SURFACE DATUM MAR 24, 1999.
LOWEST WATER LEVEL 56.59 FEET BELOW LAND SURFACE DATUM SEP 30, 1988.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SEP 11 51.50

WELL NAME 39N 05W 07CBB1 SITE NUMBER 464414117011401

DRILLED PUBLIC SUPPLY ARTESIAN WELL IN COLUMBIA RIVER BASALT, DIAM 30 TO 14 IN, DEPTH 1,336 FT, 30-IN CASING TO 13 FT, 24-IN CASING 0-107 FT, 20-IN CASING 0-508.2 FT, 16-IN CASING 480-890.5 FT, 12-IN CASING 1,200-1,286 FT. LATITUDE 46°44'14", LONGITUDE 117°01'14". LSD ABOUT 2,558 FT ABOVE SEA LEVEL. SEP 1963 THROUGH OCT 1971, MEASURED BY IDAHO BUREAU OF MINES, ACCURACY UNKNOWN. MP NO. 2 TOP OF PUMP FLANGE AT VENT PIPE OPENING, 0.80 FT ABOVE LSD (SINCE MAY 07, 1964).

RECORDS AVAILABLE 1963-1971, 1985, 1987 TO CURRENT YEAR.
HIGHEST WATER LEVEL 251.00 FEET BELOW LAND SURFACE DATUM JAN 19, 1964.
LOWEST WATER LEVEL 314.27 FEET BELOW LAND SURFACE DATUM JUN 12, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 19	310.17R	JAN 15	311.54	MAR 15	312.62	MAY 03	311.55	JUL 27	317.63P	SEP 11	313.30
DEC 15	312.43R	FEB 10	311.64	APR 05	312.78R	JUN 12	314.27	AUG 24	317.80P		

LATAH COUNTY--continued

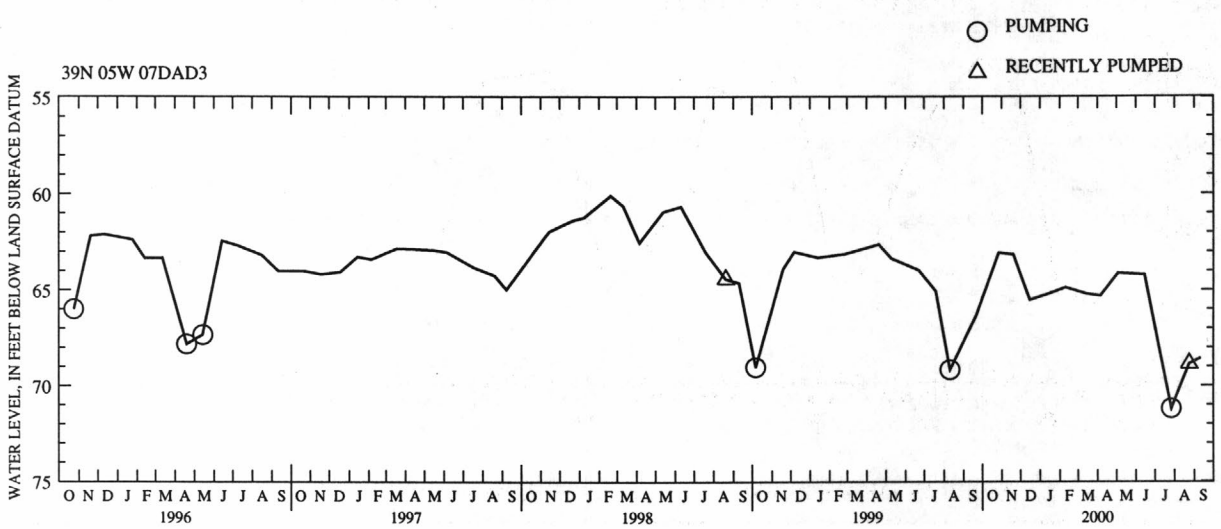
WELL NAME 39N 05W 07DAD3 SITE NUMBER 464407117000401

DRILLED PUBLIC SUPPLY ARTESIAN WELL IN COLUMBIA RIVER BASALT, DIAM 18 IN, DEPTH 251.5 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 46°44'07", LONGITUDE 117°00'04". LSD ABOUT 2,568 FT ABOVE SEA LEVEL. MAY 1936 THROUGH AUG 1967 WATER LEVELS MEASURED BY OUTSIDE AGENCY, ACCURACY UNKNOWN. MP NO. 2 TOP OF 3/4-IN ACCESS HOLE IN PUMPBASE SOUTHEAST SIDE, 0.70 FT ABOVE LSD (SINCE JUN 20, 1972).

RECORDS AVAILABLE 1936-1967, 1972-1973, 1985, 1987 TO CURRENT YEAR.
HIGHEST WATER LEVEL 53.00 FEET BELOW LAND SURFACE DATUM MAY 18, 1989.
LOWEST WATER LEVEL 68.57 FEET BELOW LAND SURFACE DATUM SEP 11, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 27	63.08	DEC 15	65.53	FEB 10	64.89	APR 05	65.31	JUN 14	64.21	AUG 24	68.87R
NOV 19	63.16	JAN 14	65.22	MAR 14	65.22	MAY 03	64.13	JUL 27	71.20P	SEP 11	68.57



LEMHI COUNTY

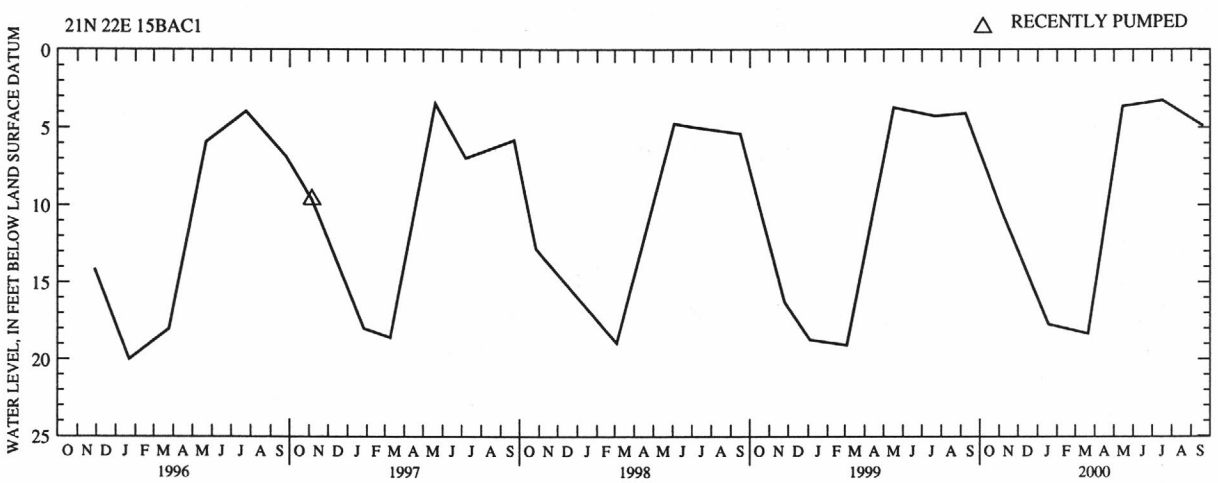
WELL NAME 21N 22E 15BAC1 SITE NUMBER 450915113504501

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 37 FT, CASED TO 36 FT, PERFORATED 26-34 FT. LATITUDE 45°09'15", LONGITUDE 113°50'45". LSD ABOUT 4,045 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 3/4-IN ACCESS HOLE SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE SEP 13, 1973).

RECORDS AVAILABLE 1973 TO CURRENT YEAR.
HIGHEST WATER LEVEL 2.68 FEET BELOW LAND SURFACE DATUM SEP 15, 1977.
LOWEST WATER LEVEL 19.99 FEET BELOW LAND SURFACE DATUM JAN 22, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 05	10.40	JAN 18	17.73	MAR 21	18.34	MAY 15	3.61	JUL 17	3.25	SEP 20	4.90



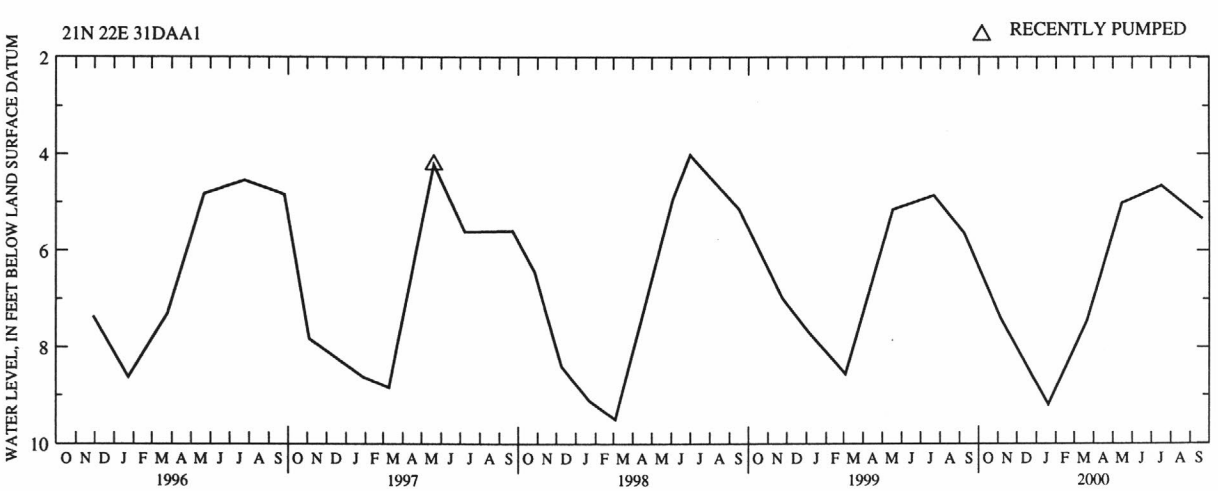
WELL NAME 21N 22E 31DAA1 SITE NUMBER 450620113533401

FORMERLY SITE NUMBER 450711113533401. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 33 FT, CASED TO 33 FT. LATITUDE 45°06'20", LONGITUDE 113°53'34". LSD ABOUT 4,030 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 1/4-IN BUSHING WEST SIDE, 0.60 FT ABOVE LSD (SINCE MAR 29, 1994).

RECORDS AVAILABLE 1973 TO SEP 16, 1998
HIGHEST WATER LEVEL 4.02 FEET BELOW LAND SURFACE DATUM JUN 30, 1998.
LOWEST WATER LEVEL 14.44 FEET BELOW LAND SURFACE DATUM MAR 01, 1975.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 05	7.40	JAN 20	9.20	MAR 21	7.46	MAY 15	5.02	JUL 17	4.66	SEP 20	5.35



WELL NAME 20N 23E 03CBA2 SITE NUMBER 450527113433501

DRILLED IRRIGATION WATER-TABLE WELL IN SEDIMENTS OF TERTIARY AGE, DIAM NOT AVAILABLE, DEPTH 142 FT, 8-IN CASING TO 19 FT, 8-IN PVC CASING 19-142 FT, PERFORATED 19-142 FT. LATITUDE 45°05'27", LONGITUDE 113°43'35". LSD ABOUT 4,404 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING EAST SIDE, 2.00 FT ABOVE LSD (SINCE JUN 27, 1991).

RECORDS AVAILABLE 1991 TO CURRENT YEAR.
HIGHEST WATER LEVEL .01 FEET BELOW LAND SURFACE DATUM JUL 22, 1999.
LOWEST WATER LEVEL 39.44 FEET BELOW LAND SURFACE DATUM SEP 19, 1994.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 05 10.70 JAN 18 11.25 MAR 21 10.46 MAY 15 5.19 JUL 17 3.27 SEP 20 5.87

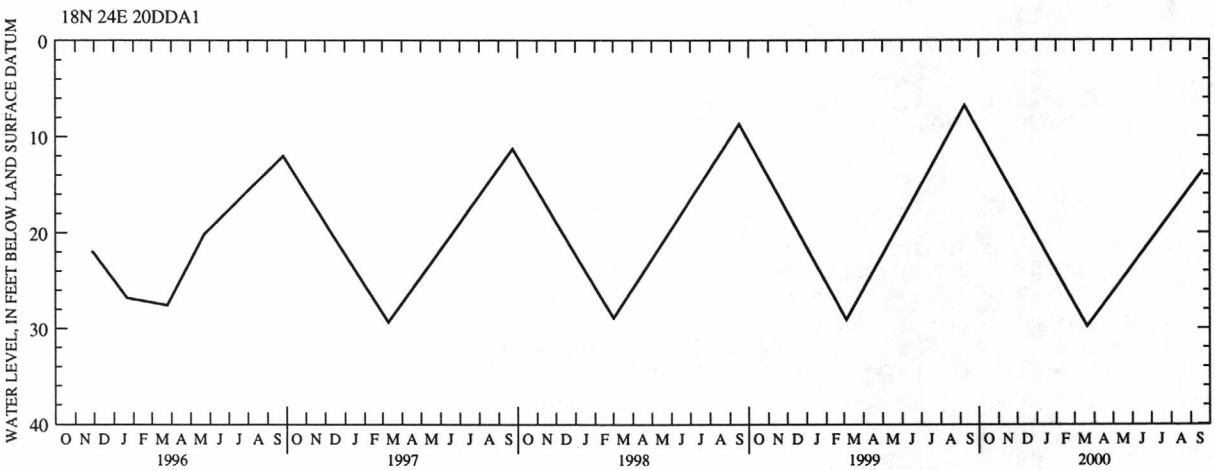
WELL NAME 18N 24E 20DDA1 SITE NUMBER 445212113374501

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 39.7 FT, CASED TO 39.7 FT. LATITUDE 44°52'12", LONGITUDE 113°37'45". LSD ABOUT 5,170 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF 3/8-IN PIPE NORTHEAST SIDE, 0.85 FT ABOVE LSD (SINCE MAY 23, 1996).

RECORDS AVAILABLE 1975 TO CURRENT YEAR.
HIGHEST WATER LEVEL 4.07 FEET BELOW LAND SURFACE DATUM MAY 11, 1994.
LOWEST WATER LEVEL 29.77 FEET BELOW LAND SURFACE DATUM MAR 21, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 21 29.77 SEP 20 13.58



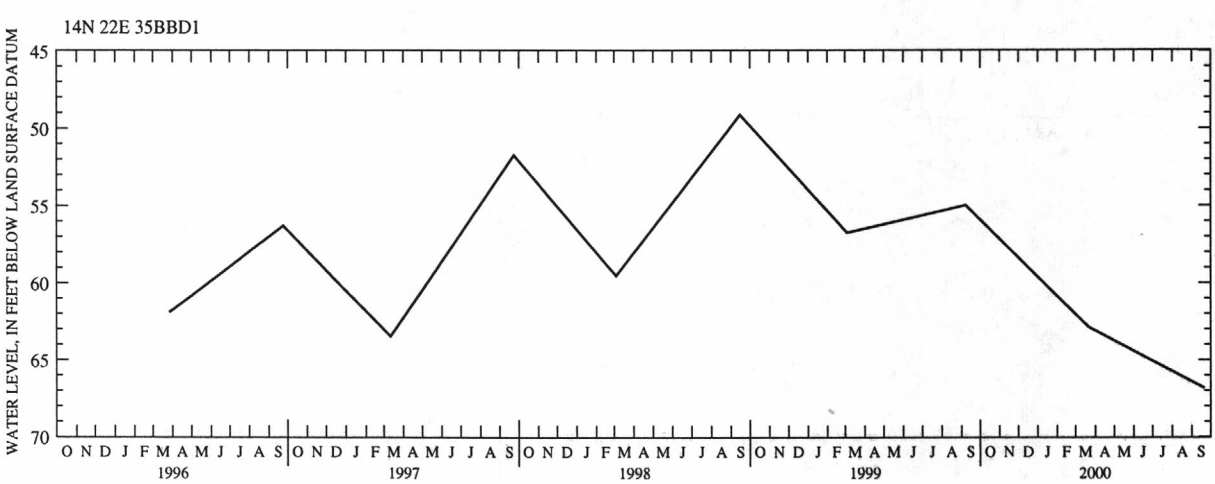
WELL NAME 14N 22E 35BBD1 SITE NUMBER 443017113493001

DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 16 IN, DEPTH 249.4 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 44°30'17", LONGITUDE 113°49'30". LSD ABOUT 5,291 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTH SIDE, 1.00 FT ABOVE LSD (SINCE MAY 25, 1971).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.
HIGHEST WATER LEVEL 22.79 FEET BELOW LAND SURFACE DATUM SEP 11, 1984.
LOWEST WATER LEVEL 70.91 FEET BELOW LAND SURFACE DATUM MAR 08, 1995.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 22 62.90 SEP 21 66.82



LEWIS COUNTY

WELL NAME 34N 02W 31ACD1 SITE NUMBER 461444116372901

DRILLED DOMESTIC ARTESIAN WELL IN COLUMBIA RIVER BASALT GROUP, DIAM 8 TO 6 IN, DEPTH 363 FT, 6-IN CASING TO 80 FT. LATITUDE 46°14'44", LONGITUDE 116°37'29". LSD ABOUT 3,990 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 1.00 FT ABOVE LSD (SINCE SEP 29, 1988).

RECORDS AVAILABLE 1988 TO CURRENT YEAR.
HIGHEST WATER LEVEL 39.33 FEET BELOW LAND SURFACE DATUM JUL 16, 1997.
LOWEST WATER LEVEL 75.22 FEET BELOW LAND SURFACE DATUM NOV 22, 1988.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 29	48.09	JAN 03	51.28R	MAR 28	54.18	MAY 02	52.92	JUL 26	59.59R	SEP 12	51.15

WELL NAME 34N 01E 25ADC1 SITE NUMBER 461538116160401

DRILLED DOMESTIC ARTESIAN WELL IN COLUMBIA RIVER BASALT GROUP, DIAM 9 IN, DEPTH 230 FT, 6-IN CASING TO 19 FT, 4-IN PVC CASING 15-230 FT, PERFORATED 125-213 FT. LATITUDE 46°15'38", LONGITUDE 116°16'04". LSD ABOUT 3,210 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING WEST SIDE, 1.30 FT ABOVE LSD (SINCE MAR 21, 1985).

RECORDS AVAILABLE 1985, 1988 TO CURRENT YEAR.
HIGHEST WATER LEVEL 49.08 FEET BELOW LAND SURFACE DATUM SEP 03, 1999.
LOWEST WATER LEVEL 83.60 FEET BELOW LAND SURFACE DATUM MAY 14, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 29	50.16	JAN 03	50.73	MAR 28	53.70R	MAY 02	51.30	JUL 26	52.53	SEP 12	53.57

NEZ PERCE COUNTY

WELL NAME 35N 06W 24CCA1 SITE NUMBER 432125117022001

DRILLED DOMESTIC ARTESIAN WELL IN COLUMBIA RIVER BASALT, DIAM 12 TO 8 IN, DEPTH 304 FT, 8-IN CASING TO 37 FT. LATITUDE 46°21'25", LONGITUDE 117°02'20". LSD ABOUT 952 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF CASING WEST SIDE, 1.49 FT ABOVE LSD (SINCE AUG 17, 1991).

RECORDS AVAILABLE 1991, 1993, 1998 TO CURRENT YEAR.
HIGHEST WATER LEVEL 240.03 FEET BELOW LAND SURFACE DATUM APR 23, 1999.
LOWEST WATER LEVEL 250.05 FEET BELOW LAND SURFACE DATUM SEP 11, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 08	249.93R	DEC 20	245.47	FEB 28	242.46	APR 11	242.01R	JUN 14	243.88	AUG 22	254.64R
NOV 30	245.88R	JAN 03	244.81	MAR 28	241.65	MAY 02	242.05	JUL 26	249.83R	SEP 11	250.05

WELL NAME 35N 05W 02CDC1 SITE NUMBER 462401116555201

DRILLED DOMESTIC ARTESIAN WELL IN COLUMBIA RIVER BASALT, DIAM 8 TO 6 IN, DEPTH 240 FT, 8-IN CASING TO 23 FT, 6-IN PVC CASING 4.35-240 FT, PERFORATED 180-223 FT. LATITUDE 46°24'01", LONGITUDE 116°55'52". LSD ABOUT 1,400 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUL 8, 1992 TO JUN 28, 1993. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.25 FT ABOVE LSD (SINCE JUL 07, 1992).

RECORDS AVAILABLE 1992 TO CURRENT YEAR.
HIGHEST WATER LEVEL 116.08 FEET BELOW LAND SURFACE DATUM MAY 25, 1993.
LOWEST WATER LEVEL 176.78 FEET BELOW LAND SURFACE DATUM NOV 17, 1994.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 07	142.49R	DEC 20	132.55R	FEB 28	121.93	APR 11	120.55	JUN 14	119.67	AUG 22	133.67
NOV 30	133.07R	JAN 04	127.15	MAR 28	121.24	MAY 02	120.14	JUL 27	122.64	SEP 12	170.30P

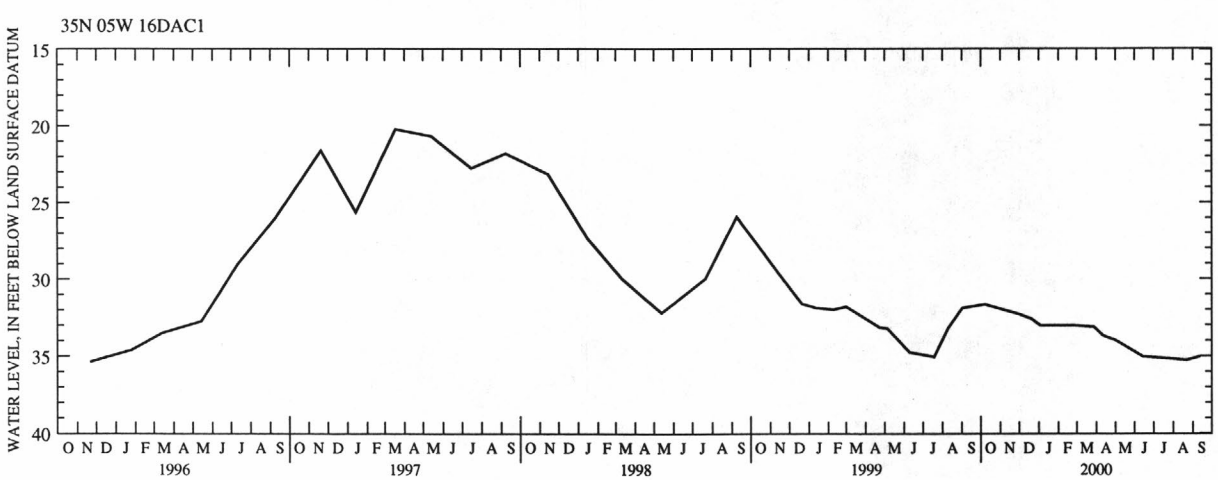
WELL NAME 35N 05W 16DAC1 SITE NUMBER 462225116575101

DRILLED UNUSED WATER-TABLE WELL IN COLUMBIA RIVER GROUP, DIAM 8 IN, REPORTED DEPTH 383 FT, CASED TO 136 FT. LATITUDE 46°22'25", LONGITUDE 116°57'51". LSD ABOUT 1,500 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 1 1/2-IN PIPE, 0.77 FT ABOVE LSD (SINCE FEB 24, 1989).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 13.05 FEET BELOW LAND SURFACE DATUM SEP 13, 1970.
LOWEST WATER LEVEL 47.31 FEET BELOW LAND SURFACE DATUM MAR 18, 1993.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 08	31.67	DEC 20	32.61	FEB 28	33.04	APR 11	33.69	JUN 14	35.05	AUG 22	35.28
NOV 30	32.30	JAN 03	33.03	MAR 28	33.12	MAY 02	34.01	JUL 26	35.18	SEP 12	35.05



NEZ PERCE COUNTY--continued

WELL NAME 35N 05W 25ADD1 SITE NUMBER 462056116535201

DRILLED DOMESTIC ARTESIAN WELL IN COLUMBIA RIVER BASALT, DIAM 10 TO 8 IN, DEPTH 585 FT, 10-IN CASING TO 34 FT, 8-IN CASING TO 333 FT. LATITUDE 46°20'56", LONGITUDE 116°53'52". LSD ABOUT 1,530 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 3/4-IN ACCESS HOLE IN WELL CAP, 3.90 FT ABOVE LSD (SINCE MAR 12, 1985).

RECORDS AVAILABLE 1985, 1990-1991, 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 196.92 FEET BELOW LAND SURFACE DATUM MAR 12, 1985.
LOWEST WATER LEVEL 302.24 FEET BELOW LAND SURFACE DATUM SEP 03, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 08	302.85R	DEC 20	284.58	FEB 28	275.61	APR 11	277.60R	JUN 14	292.96	AUG 22	313.70R
NOV 30	286.45	JAN 03	282.20R	MAR 28	274.60	MAY 02	281.53	JUL 26	P	SEP 11	314.79R

WELL NAME 03N 04W 30AAB1 SITE NUMBER 433423116511401

DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 12 IN, REPORTED DEPTH 200 FT, CASED TO 135 FT, PERFORATED 63-71 FT. LATITUDE 43°34'23", LONGITUDE 116°51'14". LSD ABOUT 2,305 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE IN PUMPBASE, 1.00 FT ABOVE LSD (SINCE SEP 16, 1977).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 53.04 FEET BELOW LAND SURFACE DATUM JAN 03, 1967.
LOWEST WATER LEVEL 60.68 FEET BELOW LAND SURFACE DATUM MAR 24, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 27 65.42R SEP 20 60.48R

WELL NAME 01N 03W 06DDC1 SITE NUMBER 432640116440701

DRILLED DOMESTIC GEOTHERMAL ARTESIAN WELL IN IDAHO GROUP, DIAM 8 TO 6 IN, DEPTH 560 FT, 8-IN CASING TO 33 FT, 6-IN CASING 0-415.5 FT. LATITUDE 43°26'40", LONGITUDE 116°44'07". LSD ABOUT 2,240 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF WOODEN BENCH IN WELL SHELTER, 1.25 FT ABOVE LSD (SINCE JAN 05, 1995).

RECORDS AVAILABLE 1979-1980, 1995 TO CURRENT YEAR.
HIGHEST WATER LEVEL +23.22 FEET ABOVE LAND SURFACE DATUM MAR 12, 1980.
LOWEST WATER LEVEL +18.61 FEET ABOVE LAND SURFACE DATUM MAY 28, 1999.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 23 +21.26 JAN 25 +20.31 MAR 27 +20.01 MAY 30 +20.31 JUL 24 +19.21 SEP 20 +19.91

WELL NAME 01S 03W 01BBC1 SITE NUMBER 432208116385701

FORMERLY WELL NAME 01S 03W 01BCB1. DRILLED IRRIGATION ARTESIAN WELL IN UNKNOWN AQUIFER, DIAM 3 IN, REPORTED DEPTH 1,800 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°22'08", LONGITUDE 116°38'57". LSD ABOUT 2,290 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 2 1/2-IN HORIZONTAL PIPE, 2.50 FT ABOVE LSD (SINCE MAY 29, 1984).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL +10.62 FEET ABOVE LAND SURFACE DATUM NOV 25, 1970.
LOWEST WATER LEVEL +2.31 FEET ABOVE LAND SURFACE DATUM MAR 27, 1991.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 27 +2.66 SEP 20 +3.21

WELL NAME 04S 01E 30BBB1 SITE NUMBER 430310116233601

FORMERLY SITE NUMBER 430312116233701. DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 10 IN, DEPTH 320 FT, CASED TO 32 FT. LATITUDE 43°03'10", LONGITUDE 116°23'36". LSD ABOUT 2,803 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE IN PUMPBASE EAST SIDE, 0.20 FT ABOVE LSD (SINCE MAR 20, 1985).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 31.21 FEET BELOW LAND SURFACE DATUM MAR 12, 1970.
LOWEST WATER LEVEL 89.94 FEET BELOW LAND SURFACE DATUM SEP 27, 1991.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 27 46.09 SEP 20 74.41

WELL NAME 05S 01E 20DAD1 SITE NUMBER 425816116211701

FORMERLY SITE NUMBER 425807116211501, WELL NAME 05S 01E 20DDD1. DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP DIAM 10 IN, DEPTH 666 FT, CASED TO 74 FT. LATITUDE 42°58'16", LONGITUDE 116°21'17". LSD ABOUT 2,799 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE EAST SIDE, 1.50 FT ABOVE LSD (SINCE MAY 13, 1971).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 15.70 FEET BELOW LAND SURFACE DATUM MAR 17, 1974.
LOWEST WATER LEVEL 58.20 FEET BELOW LAND SURFACE DATUM SEP 12, 1968.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 27 38.89 SEP 20 50.02

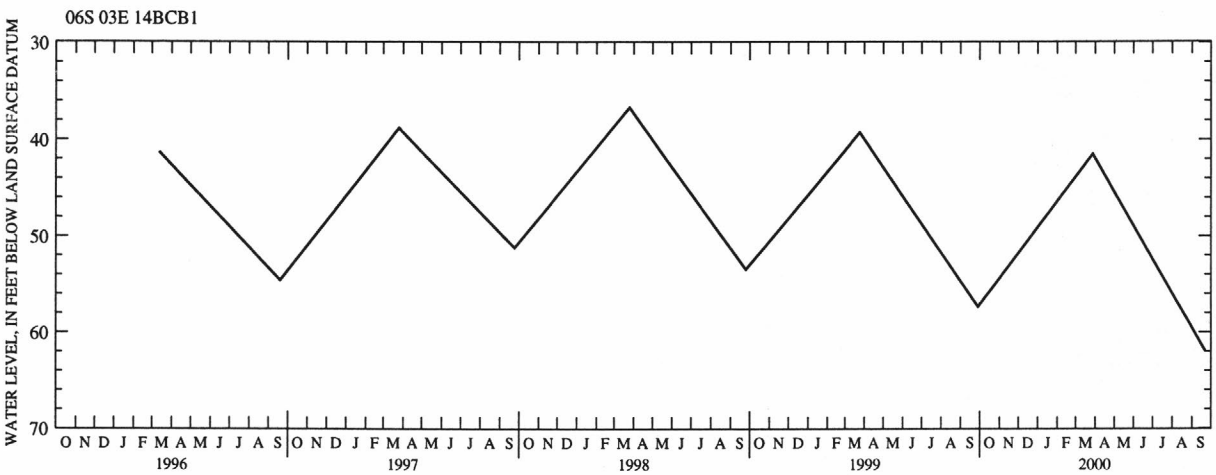
WELL NAME 06S 03E 14BCB1 SITE NUMBER 425414116043301

DRILLED UNUSED ARTESIAN WELL IN IDAHO GROUP, DIAM 4 IN, DEPTH 1,342 FT, CASED TO 373 FT. LATITUDE 42°54'14", LONGITUDE 116°04'33". LSD ABOUT 2,643 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAY 26, 1967 TO NOV 16, 1971, JUL 07, 1977 TO JUL 30, 1986. MP NO. 4 EDGE OF CASING SOUTH SIDE, 0.10 FT ABOVE LSD (SINCE JUL 14, 1971).

RECORDS AVAILABLE 1953 TO CURRENT YEAR.
HIGHEST WATER LEVEL +4.90 FEET ABOVE LAND SURFACE DATUM APR 28, 1958.
LOWEST WATER LEVEL 64.97 FEET BELOW LAND SURFACE DATUM OCT 07, 1977.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 28 41.51 SEP 22 61.96



WELL NAME 06S 04E 14ABC1 SITE NUMBER 425425115563801

DRILLED IRRIGATION ARTESIAN WELL IN IDAVADA VOLCANICS, DIAM 15 IN, DEPTH 1,905 FT, CASED TO 1,600 FT. LATITUDE 42°54'25", LONGITUDE 115°56'38". LSD ABOUT 2,665 FT ABOVE SEA LEVEL. MP NO. 4 BOTTOM EDGE OF 9/16-IN ACCESS HOLE IN SOUTH SIDE OF CASING, 2.61 FT BELOW LSD (SINCE MAY 11, 1982).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 6.09 FEET BELOW LAND SURFACE DATUM APR 26, 1967.
LOWEST WATER LEVEL 164.91 FEET BELOW LAND SURFACE DATUM JUL 22, 1998.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 23 103.75 JAN 25 58.22 MAR 28 42.25 MAY 30 147.86P JUL 25 141.62 SEP 22 112.54

WELL NAME 06S 05E 33DBB1 SITE NUMBER 425127115515501

DRILLED DOMESTIC WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 6 IN, REPORTED DEPTH 142 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°51'27", LONGITUDE 115°51'55". LSD ABOUT 2,540 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF CASING, 0.65 FT ABOVE LSD (SINCE SEP 16, 1981).

RECORDS AVAILABLE 1953, 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 2.78 FEET BELOW LAND SURFACE DATUM FEB 08, 1967.
LOWEST WATER LEVEL 35.64 FEET BELOW LAND SURFACE DATUM SEP 19, 1994.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 22 15.30 JAN 25 8.33R MAR 28 6.45R MAY 30 22.71R JUL 25 30.35 SEP 21 27.07

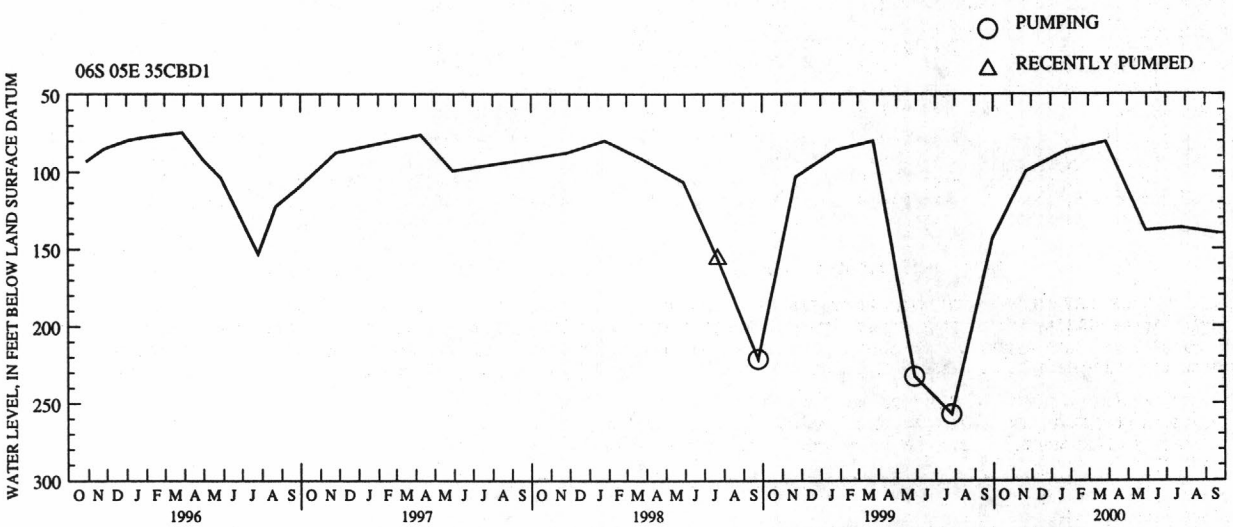
WELL NAME 06S 05E 35CBD1 SITE NUMBER 425117115495501

DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 25 IN, DEPTH 476 FT, CASED TO 230.5 FT, SCREENED 230-350 FT. LATITUDE 42°51'20", LONGITUDE 115°49'55". LSD ABOUT 2,612 FT ABOVE SEA LEVEL. MP NO. 1 BOTTOM OF 1/2-IN ACCESS HOLE OUTSIDE PUMPBASE EAST SIDE, 1.00 FT ABOVE LSD (SINCE AUG 16, 1985).

RECORDS AVAILABLE 1980-1981, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 67.69 FEET BELOW LAND SURFACE DATUM APR 12, 1988.
LOWEST WATER LEVEL 153.16 FEET BELOW LAND SURFACE DATUM JUL 26, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 22 99.62 JAN 25 86.22 MAR 28 80.52 MAY 30 138.10 JUL 25 136.24 SEP 21 140.10



WELL NAME 07S 06E 29BBA1 SITE NUMBER 424734115462801

DRILLED OBSERVATION GEOTHERMAL ARTESIAN WELL IN BANBURY BASALT, DIAM 14 TO 6 IN, DEPTH 760 FT, 12-IN CASING TO 39.5 FT, 10-IN CASING 0-246.4 FT, 6-IN CASING 0-414.8 FT. LATITUDE 42°47'34", LONGITUDE 115°46'28". LSD 2,832.48 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAY 23, 1990 TO DEC 23, 1996, RECORDER INSTALLED OCT 23, 1997. MP NO. 1 EDGE OF 6-IN CASING SOUTHEAST SIDE, 1.00 FT ABOVE LSD (SINCE MAY 23, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 155.02 FEET BELOW LAND SURFACE DATUM MAR 25, 1991.
LOWEST WATER LEVEL 164.66 FEET BELOW LAND SURFACE DATUM SEP 25, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 05	163.25	DEC 05	160.81	FEB 05	159.28	APR 05	158.19	MAY 31	160.15	AUG 20	164.18
10	163.12	10	160.69	10	159.07	10	157.92	JUN 05	160.25	25	164.26
15	163.01	15	160.60	15	159.36	10	158.45	10	160.77	31	164.36
20	162.84	20	160.49	20	158.89	15	158.46	15	161.10	SEP 05	164.40
25	162.47	25	160.39	25	159.00	20	158.67	20	161.62	10	164.47
31	162.18	31	159.96	29	158.82	25	158.63	25	161.91	15	164.55
NOV 05	161.91	JAN 05	160.09	MAR 05	158.39	30	159.25	JUL 20	162.91	20	164.42
10	161.64	10	159.70	10	158.85	MAY 05	159.38	25	163.21	25	164.66
15	161.36	15	159.72	15	158.59	10	159.36	31	163.53	30	164.23
20	161.26	20	159.56	20	158.50	15	159.50	AUG 05	163.74		
25	161.01	25	159.44	25	158.31	20	159.63	10	163.91		
30	160.83	31	159.44	31	158.39	25	159.55	15	164.04		

WELL NAME 07S 06E 34BCA1 SITE NUMBER 424620115440301

DRILLED OBSERVATION GEOTHERMAL ARTESIAN WELL IN BANBURY BASALT, DIAM 14 TO 6 IN, DEPTH 681 FT, 12-IN CASING TO 10 FT, 10-IN CASING 0-104.4 FT, 6-IN CASING 0-322.3 FT. LATITUDE 42°46'31", LONGITUDE 115°44'03". LSD 2,889.54 FT ABOVE SEA LEVEL. RECORDER INSTALLED APR 26, 1990 TO DEC 23, 1996, RECORDER INSTALLED OCT 23, 1997. MP NO. 1 EDGE OF 6-IN CASING, 0.70 FT ABOVE LSD (SINCE APR 26, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 210.23 FEET BELOW LAND SURFACE DATUM MAR 25, 1991.
LOWEST WATER LEVEL 219.65 FEET BELOW LAND SURFACE DATUM SEP 24, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 06	218.16	JAN 10	214.95	FEB 29	214.05	APR 15	213.60	JUN 15	216.08	AUG 15	218.82
NOV 16	216.53	15	214.96	MAR 05	213.63	20	213.80	25	216.86	18	218.80
20	216.45	20	214.80	10	214.06	25	213.79	30	217.03	SEP 12	219.50
25	216.23	25	214.66	15	213.83	30	214.33	JUL 10	217.21	15	219.54
30	216.05	31	214.65	20	213.71	MAY 10	214.49	15	217.67	20	219.37
DEC 15	215.81	FEB 05	214.51	25	213.55	15	214.61	20	217.83	24	219.65
20	215.74	10	214.26	31	213.60	20	214.74	25	218.18	25	219.47
25	215.60	15	214.56	APR 05	213.15	25	214.65	31	218.47	30	219.31
31	215.22	20	214.05	05	213.37	31	215.17	AUG 05	218.70		
JAN 05	215.27	25	214.22	10	213.55	JUN 05	215.27	10	218.85		

WELL NAME 07S 06E 34BCA2 SITE NUMBER 424620115440302

DRILLED OBSERVATION GEOTHERMAL ARTESIAN WELL IN BANBURY BASALT, DIAM 14 TO 10 IN, DEPTH 323 FT, 12-IN CASING TO 18 FT, 10-IN CASING 0-99 FT, 1 1/2-IN PVC 0-321.8 FT, PERFORATED 301.8-321.8 FT. LATITUDE 42°46'31", LONGITUDE 115°44'03". LSD 2,890.58 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 6-IN CASING NORTH SIDE, 2.50 FT ABOVE LSD (SINCE MAY 02, 1990).

RECORDS AVAILABLE 1990 TO NOV 16, 1999.
HIGHEST WATER LEVEL 214.27 FEET BELOW LAND SURFACE DATUM APR 10, 1991.
LOWEST WATER LEVEL 221.56 FEET BELOW LAND SURFACE DATUM AUG 31, 1994.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 16 219.82

WELL NAME 08S 06E 03BDC1 SITE NUMBER 424540115442201

DRILLED OBSERVATION GEOTHERMAL ARTESIAN WELL IN BANBURY BASALT, DIAM 12 TO 6 IN, DEPTH 480 FT, 10-IN CASING TO 94 94 FT, 6-IN CASING 0-194.3 FT. LATITUDE 42°45'40", LONGITUDE 115°44'22". LSD 2,754.62 FT ABOVE SEA LEVEL. RECORDER INSTALLED APR 01, 1990 TO DEC 23, 1996. RECORDER INSTALLED OCT 23, 1997. MP NO. 1 EDGE OF 6-IN CASING NORTH SIDE, 0.76 FT ABOVE LSD (SINCE APR 01, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 76.08 FEET BELOW LAND SURFACE DATUM APR 01, 1990.
LOWEST WATER LEVEL 86.03 FEET BELOW LAND SURFACE DATUM SEP 24, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 05	84.65	DEC 05	82.43	FEB 15	80.99	APR 10	79.93	JUN 25	83.16	AUG 25	85.59
10	84.56	10	82.34	20	80.51	15	79.87	30	83.30	31	85.68
15	84.52	15	82.22	25	80.63	20	80.07	JUL 05	83.38	SEP 05	85.76
20	84.34	20	82.09	29	80.44	25	80.08	10	83.60	10	85.75
25	84.04	25	82.00	MAR 05	80.01	30	80.57	15	83.96	15	85.85
31	83.76	31	81.58	10	80.43	MAY 05	80.69	20	84.16	20	85.80
NOV 05	83.51	JAN 05	81.69	15	80.19	10	80.77	25	84.49	24	86.03
10	83.25	12	81.59	20	80.09	15	80.96	31	84.81	25	85.83
15	82.98	15	81.34	25	79.90	20	81.10	AUG 05	85.07	30	85.70
20	82.90	20	81.17	31	79.97	25	81.02	10	85.21		
25	82.65	24	81.13	APR 04	79.49	JUN 16	82.51	15	85.36		
30	82.46	FEB 14	80.52	05	79.76	20	82.87	20	85.53		

WELL NAME 08S 06E 03BDC2 SITE NUMBER 424540115442202

DRILLED OBSERVATION GEOTHERMAL ARTESIAN WELL IN BANBURY BASALT, DIAM 10 IN, DEPTH 90.4 FT, 6-IN CASING TO 90.4 FT, PERFORATED 80.4-90.4 FT. LATITUDE 42°45'40", LONGITUDE 115°44'22". LSD 2,754.31 FT ABOVE SEA LEVEL. RECORDER INSTALLED APR 04, 1990 TO DEC 23, 1996, RECORDER INSTALLED OCT 23, 1997. MP NO. 1 EDGE OF 6-IN CASING, 0.90 FT ABOVE LSD (SINCE APR 04, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 76.59 FEET BELOW LAND SURFACE DATUM APR 04, 1990.
LOWEST WATER LEVEL 85.65 FEET BELOW LAND SURFACE DATUM SEP 24, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 05	84.66	DEC 10	82.32	FEB 15	80.87	APR 15	79.86	JUN 20	82.59	AUG 25	85.26
10	84.57	15	82.24	20	80.68	20	80.04	25	82.88	31	85.39
15	84.43	20	82.11	25	80.61	25	80.08	30	83.07	SEP 05	85.47
20	84.34	25	82.05	29	80.50	30	80.40	JUL 05	83.25	10	85.52
25	84.08	31	81.75	MAR 05	80.26	MAY 05	80.53	10	83.40	15	85.56
31	83.82	JAN 05	81.68	10	80.42	10	80.72	15	83.65	20	85.60
NOV 05	83.56	10	81.45	15	80.25	15	80.90	20	83.93	24	85.65
10	83.32	15	81.41	20	80.15	20	81.04	25	84.22	25	85.64
15	83.12	20	81.31	25	80.02	25	80.98	31	84.50	30	85.56
20	82.92	25	81.17	31	80.01	31	81.30	AUG 05	84.76		
25	82.77	31	81.09	APR 05	79.81	JUN 05	81.44	10	84.91		
30	82.56	FEB 05	80.98	08	79.76	10	81.82	15	85.04		
DEC 05	82.49	10	80.84	10	79.88	15	82.16	20	85.14		

WELL NAME 08S 06E 03BDC3 SITE NUMBER 424540115442203

DRILLED OBSERVATION GEOTHERMAL ARTESIAN WELL IN BANBURY BASALT, DIAM 10 IN, DEPTH 140 FT, 6-IN CASING TO 140 FT PERFORATED 120-140 FT. LATITUDE 42°45'40", LONGITUDE 115°44'22". LSD 2,754.17 FT ABOVE SEA LEVEL. RECORDER INSTALLED APR 04, 1990 TO DEC 23, 1996, RECORDER INSTALLED OCT 23, 1997. MP NO. 1 EDGE OF 6-IN CASING, 1.25 FT ABOVE LSD (SINCE APR 04, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 99.31 FEET BELOW LAND SURFACE DATUM APR 15, 1991.
LOWEST WATER LEVEL 105.01 FEET BELOW LAND SURFACE DATUM SEP 30, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 05	104.54	DEC 25	102.52	FEB 25	100.54	APR 15	100.00	JUN 15	101.63	AUG 15	104.04
10	104.57	31	102.32	29	100.42	20	100.10	20	101.85	20	104.19
15	104.54	JAN 05	102.19	MAR 05	100.24	25	100.15	25	102.07	25	104.34
18	104.54	10	101.99	10	100.28	30	100.27	30	102.26	31	104.47
NOV 16	103.87	15	101.87	15	100.21	MAY 05	100.34	JUL 05	102.49	SEP 05	104.60
20	103.78	20	101.74	20	100.17	10	100.48	10	102.72	10	104.69
25	103.58	25	101.60	25	100.11	15	100.66	15	102.92	15	104.80
30	103.39	31	101.43	31	100.11	20	100.84	20	103.14	20	104.89
DEC 05	103.21	FEB 05	101.25	APR 05	100.04	25	100.91	25	103.32	25	104.96
10	103.04	10	101.05	08	99.98	31	101.09	31	103.54	30	105.01
15	102.85	15	100.90	10	100.03	JUN 05	101.22	AUG 05	103.71		
20	102.66	20	100.69	13	99.98	10	101.40	10	103.88		

WELL NAME 08S 06E 04DCD1 SITE NUMBER 424523115451201

DRILLED OBSERVATION WELL IN BANBURY BASALT, DIAM 12 TO 5.5 IN, DEPTH 600 FT, 10-IN CASING TO 104.8 FT, 6-IN CASING 0-170 FT. LATITUDE 42°45'23", LONGITUDE 115°45'12". LSD 2,837.67 FT ABOVE SEA LEVEL. RECORDER INSTALLED APR 14, 1990 TO DEC 23, 1996, RECORDER INSTALLED OCT 23, 1997. MP NO. 1 EDGE OF CASING SOUTH SIDE, 0.90 FT ABOVE LSD (SINCE APR 14, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 158.06 FEET BELOW LAND SURFACE DATUM MAR 25, 1991.
LOWEST WATER LEVEL 167.63 FEET BELOW LAND SURFACE DATUM SEP 24, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 05	166.21	DEC 10	163.84	FEB 15	162.50	APR 10	161.45	JUN 15	163.99	AUG 20	167.10
10	166.12	15	163.74	20	162.01	15	161.42	20	164.48	25	167.19
15	166.06	20	163.62	25	162.15	20	161.64	25	164.76	31	167.28
20	165.89	25	163.52	29	161.96	25	161.65	30	164.87	SEP 05	167.38
25	165.59	31	163.11	MAR 05	161.51	30	162.15	JUL 05	164.98	10	167.40
31	165.34	JAN 05	163.21	10	161.95	MAY 05	162.27	10	165.19	15	167.46
NOV 05	165.07	10	162.81	15	161.75	10	162.39	15	165.51	20	167.41
10	164.83	15	162.85	20	161.74	15	162.54	20	165.75	24	167.63
15	164.55	20	162.70	25	161.42	20	162.67	25	166.07	25	167.46
20	164.43	25	162.60	31	161.47	25	162.61	31	166.35	30	167.33
25	164.18	31	162.59	APR 04	161.03	31	163.08	AUG 05	166.62		
30	164.00	FEB 05	162.41	05	161.24	JUN 05	163.17	10	166.79		
DEC 05	163.95	10	162.21	08	161.03	10	163.65	15	166.92		

OWYHEE COUNTY--continued

WELL NAME 08S 11E 33BCD1 SITE NUMBER 424121115103601

FORMERLY SITE NUMBER 424119115105601, WELL NAME 08S 11E 33CBA1. DRILLED STOCK WATER-TABLE WELL IN IDAHO GROUP, DIAM 6 IN, DEPTH 290 FT, CASED TO 290 FT, PERFORATED 250-285 FT. LATITUDE 42°41'21", LONGITUDE 115°10'36". LSD ABOUT 3,168 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 1.30 FT ABOVE LSD (SINCE FEB 09, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 163.12 FEET BELOW LAND SURFACE DATUM MAR 22, 1999.
LOWEST WATER LEVEL 171.69 FEET BELOW LAND SURFACE DATUM FEB 09, 1967.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

MAR 09 162.90 SEP 08 162.54

WELL NAME 09S 12E 29BBA1 SITE NUMBER 423719115044701

DRILLED IRRIGATION WELL IN UNKNOWN AQUIFER, DIAM 18 IN, REPORTED DEPTH BETWEEN 1,350-1,500 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°37'19", LONGITUDE 115°04'47". LSD ABOUT 3,605 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 18-IN CASING EAST SIDE, 0.60 FT ABOVE LSD (SINCE JUL 11, 1985).

RECORDS AVAILABLE 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 193.52 FEET BELOW LAND SURFACE DATUM MAR 05, 1997.
LOWEST WATER LEVEL 272.99 FEET BELOW LAND SURFACE DATUM AUG 11, 1986.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 29 216.04 JAN 28 210.08 MAR 09 205.67 MAY 25 228.09 JUL 28 251.19 SEP 29 241.95

PAYETTE COUNTY

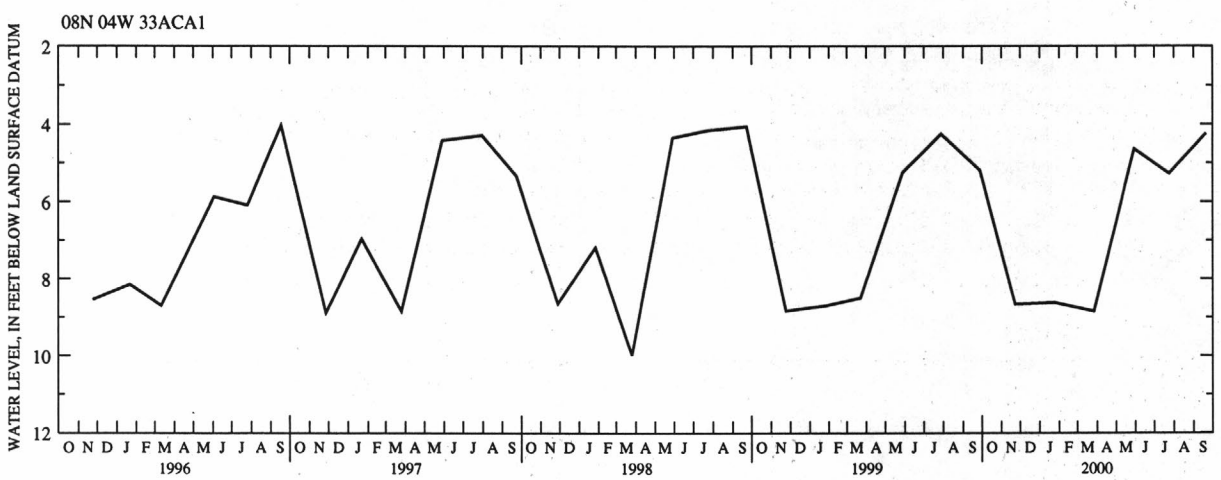
WELL NAME 08N 04W 33ACA1 SITE NUMBER 435933116485901

DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 28.5 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°59'33", LONGITUDE 116°48'59". LSD ABOUT 2,211 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAY 17, 1967 TO JUL 26, 1983. MP NO. 1 EDGE OF 6-IN CASING EAST SIDE, 0.50 FT ABOVE LSD (SINCE MAY 11, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 3.51 FEET BELOW LAND SURFACE DATUM JUL 18, 1971.
LOWEST WATER LEVEL 10.51 FEET BELOW LAND SURFACE DATUM MAR 16, 1968.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 23	8.66	JAN 24	8.62	MAR 27	8.85	MAY 30	4.64	JUL 24	5.28	SEP 20	4.24



WELL NAME 06N 04W 34DDB1 SITE NUMBER 434835116474301

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 147 FT, CASED TO 147 FT, PERFORATED 144-147 FT. LATITUDE 43°48'35", LONGITUDE 116°47'43". LSD ABOUT 2,480 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ELECTRICAL WIRE ACCESS HOLE, 1.06 FT ABOVE LSD (SINCE MAR 25, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 111.56 FEET BELOW LAND SURFACE DATUM JAN 21, 1997.
LOWEST WATER LEVEL 117.06 FEET BELOW LAND SURFACE DATUM SEP 10, 1998.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

OCT 20	113.76	DEC 14	113.72R	FEB 15	111.80	APR 11	114.74	JUN 13	113.54P	AUG 15	114.19P
NOV 16	114.27	JAN 18	112.43P	MAR 21	113.26	MAY 16	112.24	JUL 11	113.69	SEP 26	113.74P

VALLEY COUNTY

WELL NAME 18N 03E 36BCD1 SITE NUMBER 445120116022301

FORMERLY SITE NUMBER 445126116023601, WELL NAME 18N 03E 36BC1. DRILLED DOMESTIC WATER-TABLE WELL IN OUTWASH OF PLEISTOCENE AGE, DIAM 6 IN, DEPTH 177 FT, 5-IN CASING TO 140 FT, 6-IN CASING 140-160 FT, PERFORATED 140-160 FT, GRAVEL FILL 125-177 FT. LATITUDE 44°51'20", LONGITUDE 116°02'23". LSD ABOUT 5,120 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF ACCESS HOLE SOUTHEAST SIDE, 0.60 FT ABOVE LSD (SINCE MAR 11, 1975).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 32.25 FEET BELOW LAND SURFACE DATUM SEP 19, 1974.
LOWEST WATER LEVEL 48.92 FEET BELOW LAND SURFACE DATUM SEP 11, 1990.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 23	41.79	JAN 24	41.09R	MAR 01	41.20	MAY 23	39.43	JUL 25	45.34	SEP 21	45.93

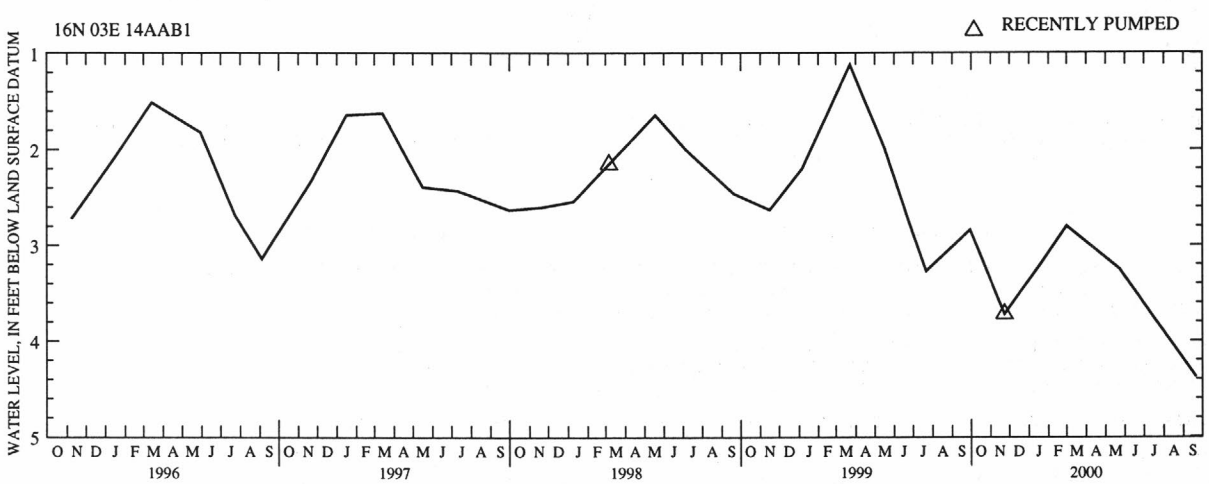
WELL NAME 16N 03E 14AAB1 SITE NUMBER 444351116030001

DRILLED DOMESTIC WATER-TABLE WELL IN OUTWASH OF PLEISTOCENE AGE, DIAM 6 IN, DEPTH 110 FT, 5-IN CASING TO 80 FT, 6-IN CASING 80-100 FT, PERFORATED 80-100 FT, GRAVEL FILL. LATITUDE 44°44'36", LONGITUDE 116°03'17". LSD ABOUT 4,865 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 1 1/4-IN ACCESS HOLE, 1.20 FT ABOVE LSD (SINCE MAR 14, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 1.12 FEET BELOW LAND SURFACE DATUM MAR 23, 1999.
LOWEST WATER LEVEL 4.38 FEET BELOW LAND SURFACE DATUM SEP 21, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 23	3.72R	JAN 24	3.15	MAR 01	2.80	MAY 23	3.25	SEP 21	4.38		



WELL NAME 13N 04E 16BAD1 SITE NUMBER 442755115592201

DRILLED DOMESTIC WATER-TABLE WELL IN SAND OF QUATERNARY AGE, DIAM 6 IN, DEPTH 84 FT, CASED TO 67 FT. LATITUDE 44°27'55", LONGITUDE 115°59'22". LSD ABOUT 4,770 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING WEST SIDE, 0.60 FT ABOVE LSD (SINCE MAR 14, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 12.25 FEET BELOW LAND SURFACE DATUM JAN 04, 1999.
LOWEST WATER LEVEL 34.76 FEET BELOW LAND SURFACE DATUM SEP 04, 1987.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 23	29.39	JAN 24	28.25	MAR 01	28.42	MAY 22	27.36	JUL 25	34.42	SEP 21	32.98

WELL NAME 14N 02W 10BCA1 SITE NUMBER 444401116463001

DRILLED UNUSED ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 128.9 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 44°34'03", LONGITUDE 116°34'10". LSD ABOUT 2,705 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF CASING EAST SIDE, 0.70 FT ABOVE LSD (SINCE JUL 11, 1984).

RECORDS AVAILABLE 1974 TO CURRENT YEAR.
HIGHEST WATER LEVEL 3.32 FEET BELOW LAND SURFACE DATUM MAR 14, 1984.
LOWEST WATER LEVEL 7.80 FEET BELOW LAND SURFACE DATUM SEP 21, 1994.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 23	4.58	JAN 24	3.95	MAR 02	3.85	MAY 25	4.69	JUL 25	5.22	SEP 24	5.10

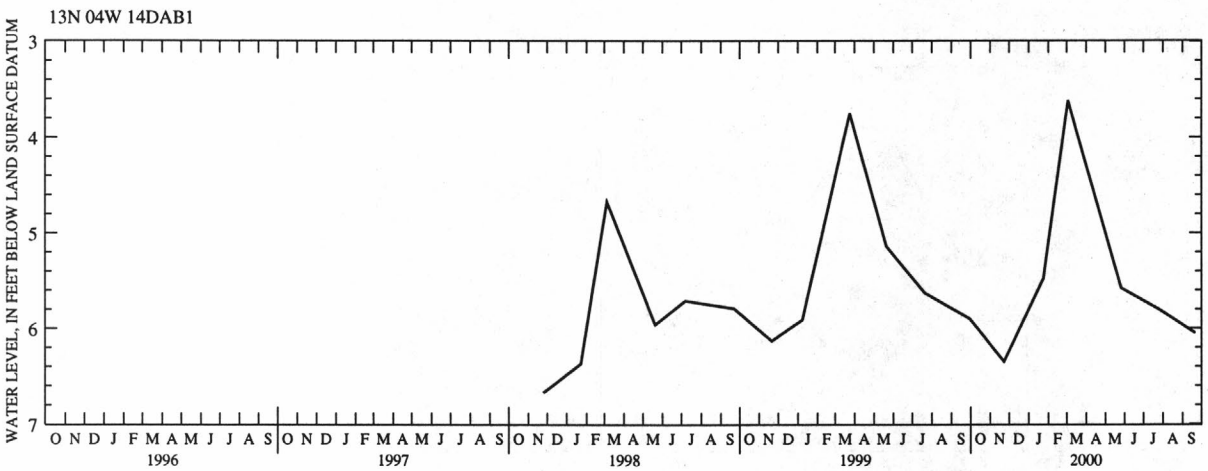
WELL NAME 13N 04W 14DAB1 SITE NUMBER 442750116464001

DRILLED STOCK WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 10 IN, REPORTED DEPTH 90 FT, 6-IN CASING INFORMATION NOT AVAILABLE. LATITUDE 44°27'50", LONGITUDE 116°46'40". LSD ABOUT 2,660 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 0.55 FT ABOVE LSD (SINCE JUN 19, 1974).

RECORDS AVAILABLE 1974, 1997 TO CURRENT YEAR.
HIGHEST WATER LEVEL 3.62 FEET BELOW LAND SURFACE DATUM MAR 03, 2000.
LOWEST WATER LEVEL 17.31 FEET BELOW LAND SURFACE DATUM JUN 19, 1974.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 23	6.35	JAN 24	5.48	MAR 03	3.62	MAY 26	5.58	JUL 25	5.80	SEP 21	6.05



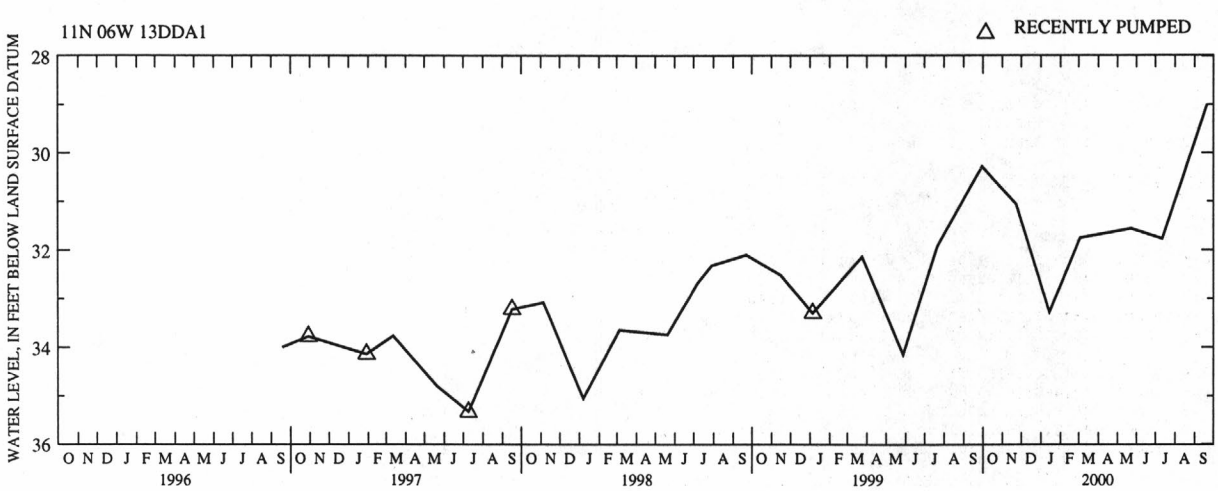
WELL NAME 11N 06W 13DDA1 SITE NUMBER 441706116593501

DRILLED DOMESTIC WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 TO 8 IN, DEPTH 60 FT, 8-IN CASING TO 60 FT, PERFORATED 50-58 FT. LATITUDE 44°17'06", LONGITUDE 116°59'35". LSD ABOUT 2,200 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING EAST SIDE, 0.95 FT ABOVE LSD (SINCE APR 14, 1994).

RECORDS AVAILABLE 1994 TO CURRENT YEAR.
HIGHEST WATER LEVEL 29.00 FEET BELOW LAND SURFACE DATUM SEP 21, 2000.
LOWEST WATER LEVEL 35.05 FEET BELOW LAND SURFACE DATUM JAN 07, 1998.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

NOV 23	31.06	JAN 14	33.28	MAR 03	31.75	MAY 23	31.56	JUL 12	31.77	SEP 21	29.00



Local Identifier: Indicates location by township, range and section.

WATER QUALITY DATA, JUNE TO SEPTEMBER 2000

LOCAL IDENTIFIER	STATION NUMBER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
				ADA COUNTY					
01N 01E 12DAA2	432613116162902	07-21-00	1205	--	417	7.6	28.5	25.3	4.5
01N 01W 24AAA1	432452116234201	09-07-00	1130	--	546	7.9	20.0	23.9	5.4
01N 03E 11DDB1	432555116033001	07-31-00	1220	--	224	7.4	31.0	25.0	4.9
01S 01W 07CBB2	432100116303701	08-08-00	1145	--	784	7.6	25.0	17.7	10.1
01S 01W 30BAB1	431851116301101	08-08-00	1435	175.97	315	8.2	32.0	17.6	.0
02N 01E 31DDC1	432734116223901	08-02-00	1530	140.25	310	7.8	33.0	15.8	6.8
02N 01W 01ABD1	433240116235401	06-20-00	1021	--	520	7.8	19.5	14.7	9.0
02N 01W 10ABB1	433155116263101	06-20-00	1530	--	590	7.7	25.0	15.2	6.7
02N 01W 12BAA1	433154116242601	06-20-00	1320	--	593	7.2	17.5	13.3	6.5
02N 01W 27BCC1	432853116270901	06-21-00	1233	--	998	7.5	26.5	20.4	8.3
02N 01W 34CCD2	432735116265302	06-21-00	1000	--	251	8.1	25.0	26.4	4.2
02N 02E 07BAD1	433143116154801	07-24-00	1540	--	194	8.1	32.0	16.3	8.5
02N 02E 32DBA1	432753116141901	08-02-00	1135	--	529	7.9	25.5	22.2	8.4
02N 03E 06BCC1	433224116090801	08-07-00	1530	--	260	7.7	31.0	21.7	13.7
02N 03E 11ACC1	433132116034701	07-26-00	1243	13.74	212	6.6	25.0	14.7	5.2
02N 03E 28CAC1	432841116062801	07-31-00	1400	--	229	7.4	32.0	23.3	7.4
03N 01E 17ACA1	433601116213701	07-20-00	1515	--	804	7.2	33.0	13.3	7.4
03N 01E 21DCA1	433442116202401	07-20-00	1251	36.30	837	7.6	29.0	13.6	6.7
03N 01E 22CCC1	433441116195901	07-20-00	1030	--	853	7.3	23.0	14.1	7.2
03N 01E 23DAB1	433456116174501	07-19-00	1500	16.78	717	7.2	31.0	13.7	4.3
03N 01E 26BAD1	433425116181301	07-19-00	1147	40.34	610	7.4	27.0	14.1	12.2
03N 02E 22ABDA1	433516116115401	07-24-00	1245	--	306	7.4	26.5	15.8	.7
03N 02E 24ACAD1	433507116092801	07-26-00	1035	--	198	7.2	23.0	26.5	3.7
03N 03E 30DAAD2	433406116080101	06-22-00	1450	4.63	282	7.1	30.0	10.2	.7
04N 01E 08DCB1	434144116213901	07-25-00	1310	12.36	333	6.8	29.0	14.5	2.1
04N 01E 15BADC1	434121116192901	07-25-00	1510	9.21	238	7.0	32.0	13.3	2.8
04N 01W 18ACA1	434118116295101	07-25-00	1106	--	123	7.9	23.5	15.4	.0
04N 01W 22DBB1	434013116262801	08-03-00	1135	48.98	709	7.3	26.0	13.0	4.3
04N 01W 23ADD1	434019116244901	07-28-00	1100	37.54	641	7.0	23.0	13.6	7.3
04N 02E 19ABB1	434035116154401	07-05-00	1435	60.92	407	6.8	24.5	15.8	6.7
04N 02E 32CAD1	433820116143401	07-28-00	1345	--	348	6.6	29.5	17.0	1.4
05N 01E 29DCA1	434415116213401	08-01-00	1025	--	501	7.2	27.0	16.5	8.4
05N 01E 30CAC1	434423116231301	08-01-00	1510	202.53	358	6.8	35.5	17.5	.0
05N 01E 31ABD2	434359116224201	08-01-00	1330	--	556	7.1	33.5	13.6	8.6
05N 01E 32DBD1	434331116213601	08-01-00	1210	82.64	303	7.0	31.5	14.9	7.4
05N 02E 30CDC2	434409116160402	07-07-00	1045	--	295	7.1	25.0	15.4	6.0
				ADAMS COUNTY					
15N 01W 10BBB1	443929116270201	07-31-00	1655	--	214	7.4	39.5	13.1	2.7
19N 02E 29ADB1	445729116135901	08-01-00	0840	--	293	7.6	24.0	9.6	1.9
				BENEWAH COUNTY					
44N 01E 30CAC1	470742116230901	06-27-00	1645	--	195	6.9	28.0	10.6	.3
44N 02W 33BAA1	470718116354101	06-27-00	1430	28.51	229	7.1	31.0	9.5	3.7
45N 01W 29BAD1	471319116294201	06-29-00	0835	--	154	7.4	17.0	10.2	1.7
45N 04W 12DAD1	471516116461801	06-28-00	0825	--	226	7.2	20.0	10.8	6.5
46N 02W 36DAC1	471716116320301	06-28-00	1155	--	148	6.1	30.0	10.0	10.7
46N 06W 01AAB1	472156117013701	06-29-00	1150	--	196	7.2	25.5	11.1	6.1
				BOISE COUNTY					
06N 05E 26CBB1	434943115505601	08-16-00	1435	--	291	6.0	31.5	10.4	.4
07N 02E 23CAC1	435537116111601	08-22-00	1340	--	623	9.1	24.5	17.3	.5
07N 02E 34ABD1	435424116115901	09-08-00	1105	10.08	203	6.8	19.0	16.3	.0
07N 05E 31DCCA1	435342115542701	08-16-00	1630	--	72	6.7	32.0	10.0	2.0
09N 04E 26BDB1	440515115570301	08-22-00	1025	--	139	6.8	16.0	13.6	5.7
09N 07E 34ABB1	440448115365001	08-16-00	1150	27.55	218	8.2	23.0	13.4	1.4
				BONNER COUNTY					
54N 04W 29ABC1	480015116512901	06-26-00	1235	274.68	526	7.8	24.5	8.7	.2
55N 02E 04BDB1	480551116125601	08-01-00	1305	6.49	179	7.8	27.0	8.7	8.3
55N 03E 28BDD1S	480513116050101	08-01-00	0940	--	192	8.2	24.5	8.7	9.2
55N 05W 19BDD2	480607117004402	06-26-00	1035	32.58	298	7.1	22.5	7.7	6.6
55N 06W 01ADA1	480850117012701	08-29-00	1335	95.96	307	7.7	24.5	8.2	7.2
56N 02W 10CAB1	481255116333501	06-21-00	1155	--	377	7.2	25.0	9.7	1.0
56N 04W 06BDD1	481405116530501	08-02-00	0925	--	224	8.3	22.0	8.4	.2
56N 06W 36AAA1	480959117012001	06-26-00	1435	52.45	248	8.0	26.5	9.6	.1
57N 03W 33DDD1	481230116414901	08-02-00	1220	--	160	7.3	27.5	9.3	3.5
58N 02W 26ABA1	482125116331601	08-15-00	0935	--	132	8.3	21.0	8.7	--

WATER QUALITY DATA, JUNE TO SEPTEMBER 2000

LOCAL IDENT-I-FIER	DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
				ADA COUNTY						
01N 01E 12DAA2	07-21-00	<1	130	32.5	11.5	36.8	3.5	150	0	121
01N 01W 24AAA1	09-07-00	<1	150	30.7	16.6	51.8	5.6	140	0	116
01N 03E 11DDB1	07-31-00	<1	76	23.2	4.32	18.6	1.6	120	0	102
01S 01W 07CBB2	08-08-00	<1	260	66.4	23.0	65.6	5.4	260	0	212
01S 01W 30BAB1	08-08-00	<1	65	18.2	4.77	43.1	3.7	140	0	118
02N 01E 31DDC1	08-02-00	<1	110	33.8	7.03	17.0	2.0	130	0	107
02N 01W 01ABD1	06-20-00	<1	99	24.8	8.95	73.7	1.4	250	0	202
02N 01W 10ABB1	06-20-00	<1	180	39.1	20.3	57.3	4.4	280	0	225
02N 01W 12BAA1	06-20-00	<1	230	63.2	17.3	34.9	2.8	310	0	253
02N 01W 27BCC1	06-21-00	<1	340	105	18.3	87.4	6.1	310	0	255
02N 01W 34CCD2	06-21-00	<1	42	15.5	.88	38.2	2.2	130	0	104
02N 02E 07BAD1	07-24-00	<1	28	8.95	1.48	33.0	.7	100	0	82
02N 02E 32DBA1	08-02-00	<1	120	43.1	3.96	56.9	1.3	120	0	101
02N 03E 06BCC1	08-07-00	<1	80	23.0	5.45	21.0	1.4	100	0	86
02N 03E 11ACC1	07-26-00	<1	84	22.5	6.71	9.1	1.8	100	0	83
02N 03E 28CAC1	07-31-00	<1	74	21.3	5.06	19.2	1.3	110	0	93
03N 01E 17ACA1	07-20-00	<1	370	102	27.8	40.2	1.4	470	0	388
03N 01E 21DCA1	07-20-00	<1	190	54.5	12.7	117	2.0	400	0	331
03N 01E 22CCC1	07-20-00	<1	300	79.4	23.7	70.6	1.4	390	0	318
03N 01E 23DAB1	07-19-00	<1	230	56.8	22.4	70.5	1.6	380	0	315
03N 01E 26BAD1	07-19-00	<1	210	62.1	13.9	38.6	2.6	150	0	120
03N 02E 22ABDA1	07-24-00	<1	120	40.6	4.92	15.2	1.2	170	0	139
03N 02E 24ACAD1	07-26-00	<1	55	19.8	1.28	19.8	2.2	98	0	80
03N 03E 30DAAD2	06-22-00	<1	110	38.1	4.79	15.3	1.2	170	0	136
04N 01E 08DCB1	07-25-00	<1	130	37.9	7.73	18.3	1.8	170	0	138
04N 01E 15BADC1	07-25-00	<1	90	29.0	4.35	24.8	.9	160	0	129
04N 01W 18ACA1	07-25-00	<1	41	12.1	2.64	9.3	.9	74	0	60
04N 01W 22DBB1	08-03-00	<1	230	71.5	12.0	63.1	2.3	330	0	268
04N 01W 23ADD1	07-28-00	<1	240	78.2	11.1	50.5	2.3	320	0	258
04N 02E 19ABB1	07-05-00	<1	150	42.4	10.6	21.7	2.9	150	0	122
04N 02E 32CAD1	07-28-00	K120	100	31.5	5.14	29.8	4.2	120	0	100
05N 01E 29DCA1	08-01-00	<1	170	51.5	11.0	41.3	2.3	260	0	209
05N 01E 30CAC1	08-01-00	<1	130	36.1	10.3	18.7	1.9	170	0	137
05N 01E 31ABD2	08-01-00	<1	170	49.8	10.6	55.9	2.8	260	0	217
05N 01E 32DBD1	08-01-00	<1	110	31.0	7.50	23.2	2.1	170	0	138
05N 02E 30CDC2	07-07-00	K2	130	35.8	8.81	11.8	2.2	140	0	119
				ADAMS COUNTY						
15N 01W 10BBB1	07-31-00	<1	80	17.4	8.78	11.6	2.9	130	0	105
19N 02E 29ADB1	08-01-00	<1	54	14.3	4.48	34.7	3.2	96	0	79
				BENEWAH COUNTY						
44N 01E 30CAC1	06-27-00	<1	83	17.6	9.43	7.9	2.1	120	0	101
44N 02W 33BAA1	06-27-00	<1	100	24.5	9.90	8.9	2.5	130	0	107
45N 01W 29BAD1	06-29-00	<1	65	12.8	8.00	7.1	1.9	89	0	73
45N 04W 12DAD1	06-28-00	<1	97	23.2	9.54	9.6	2.3	130	0	110
46N 02W 36DAC1	06-28-00	K1	59	14.6	5.56	6.4	1.3	68	0	56
46N 06W 01AAB1	06-29-00	<1	85	21.7	7.36	9.6	.6	110	0	92
				BOISE COUNTY						
06N 05E 26CBB1	08-16-00	<1	70	21.1	4.29	20.5	3.1	120	0	100
07N 02E 23CAC1	08-22-00	<1	8	2.55	.37	142	.4	130	15	134
07N 02E 34ABD1	09-08-00	<1	86	25.7	5.19	6.8	1.0	120	0	95
07N 05E 31DCCA1	08-16-00	<1	12	3.81	.64	10.3	.6	49	0	40
09N 04E 26BDB1	08-22-00	<1	30	9.55	1.42	17.2	.8	73	0	60
09N 07E 34ABB1	08-16-00	<1	34	12.7	.68	36.9	.5	120	0	99
				BONNER COUNTY						
54N 04W 29ABC1	06-26-00	<1	290	52.9	37.5	4.1	3.1	320	0	260
55N 02E 04BDB1	08-01-00	<1	92	26.0	6.47	2.9	.7	94	0	77
55N 03E 28BDD1S	08-01-00	<1	98	25.4	8.35	2.7	3.2	100	0	85
55N 05W 19BDD2	06-26-00	<1	150	38.5	13.1	4.6	2.0	170	0	143
55N 06W 01ADA1	08-29-00	<1	160	47.9	9.17	2.4	1.9	190	0	155
56N 02W 10CAB1	06-21-00	<1	150	40.7	12.8	19.3	2.0	200	0	161
56N 04W 06BDD1	08-02-00	<1	100	29.3	6.89	6.5	8.4	96	0	78
56N 06W 36AAA1	06-26-00	<1	--	.10	.02	58.5	.5	130	0	107
57N 03W 33DDD1	08-02-00	<1	73	19.0	6.05	6.3	1.4	88	0	72
58N 02W 26ABA1	08-15-00	<1	57	18.4	2.55	4.0	.9	77	0	63

K Results based on counts outside ideal colony range.

WATER QUALITY DATA, JUNE TO SEPTEMBER 2000

LOCAL IDENTIFIER	DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
				ADA COUNTY					
01N 01E 12DAA2	07-21-00	50.0	18.5	.2	47.5	281	.38	<.010	1.65
01N 01W 24AAA1	09-07-00	92.1	34.1	.3	47.7	356	.48	<.010	1.77
01N 03E 11DDB1	07-31-00	6.9	3.2	.3	52.7	175	.24	<.010	.459
01S 01W 07CBB2	08-08-00	85.0	22.8	.2	31.0	502	.68	<.010	16.9
01S 01W 30BAB1	08-08-00	26.4	7.4	.4	41.7	216	.29	<.010	<.050
02N 01E 31DDC1	08-02-00	27.2	8.9	.3	35.4	199	.27	<.010	.721
02N 01W 01ABD1	06-20-00	37.2	8.0	.8	32.7	331	.45	<.010	4.97
02N 01W 10ABB1	06-20-00	52.1	8.5	.8	39.5	383	.52	<.010	5.88
02N 01W 12BAA1	06-20-00	16.8	10.8	.3	62.4	397	.54	<.010	8.10
02N 01W 27BCC1	06-21-00	192	44.5	.2	38.2	657	.89	<.010	2.72
02N 01W 34CCD2	06-21-00	12.7	6.7	.5	33.1	175	.24	<.010	.638
02N 02E 07BAD1	07-24-00	11.6	2.5	.6	22.3	133	.18	<.010	.540
02N 02E 32DBA1	08-02-00	82.6	37.5	.5	27.3	330	.45	<.010	3.71
02N 03E 06BCC1	08-07-00	16.3	8.7	.3	32.4	171	.23	<.010	2.57
02N 03E 11ACC1	07-26-00	5.3	3.3	.2	29.9	138	.19	<.010	2.11
02N 03E 28CAC1	07-31-00	7.4	4.3	.3	44.8	168	.23	<.010	1.90
03N 01E 17ACA1	07-20-00	12.9	2.2	.6	55.2	483	.66	<.010	1.61
03N 01E 21DCA1	07-20-00	58.8	21.8	.7	27.4	514	.70	<.010	4.80
03N 01E 22CCC1	07-20-00	43.0	38.0	.7	44.3	533	.73	<.010	9.29
03N 01E 23DAB1	07-19-00	32.4	10.0	.6	47.8	457	.62	<.010	5.88
03N 01E 26BAD1	07-19-00	104	36.8	.4	34.7	383	.52	<.010	3.87
03N 02E 22ABDA1	07-24-00	11.6	3.0	.4	26.8	191	.26	<.010	.869
03N 02E 24ACAD1	07-26-00	9.7	3.1	.5	38.0	148	.20	<.010	1.25
03N 03E 30DAAD2	06-22-00	5.7	2.6	.4	18.6	170	.23	<.010	.317
04N 01E 08DCB1	07-25-00	13.4	5.7	.2	38.1	219	.30	<.010	2.63
04N 01E 15BADC1	07-25-00	6.1	3.2	.5	34.9	190	.26	<.010	1.97
04N 01W 18ACA1	07-25-00	3.0	.8	.3	29.7	95	.13	<.010	<.050
04N 01W 22DBB1	08-03-00	64.2	15.4	.3	32.4	442	.60	<.010	4.56
04N 01W 23ADD1	07-28-00	55.5	10.6	.3	26.7	403	.55	<.010	2.95
04N 02E 19ABB1	07-05-00	22.6	18.9	.2	59.0	283	.38	<.010	6.88
04N 02E 32CAD1	07-28-00	29.0	19.8	.5	27.9	217	.30	.033	1.74
05N 01E 29DCA1	08-01-00	29.2	6.5	.5	36.9	318	.43	<.010	2.86
05N 01E 30CAC1	08-01-00	33.0	7.2	.5	33.6	224	.31	<.010	<.050
05N 01E 31ABD2	08-01-00	30.5	10.3	.2	54.3	370	.50	<.010	5.62
05N 01E 32DBD1	08-01-00	7.0	2.4	.3	44.9	211	.29	<.010	2.15
05N 02E 30CDC2	07-07-00	16.3	3.1	.2	40.1	201	.27	<.010	2.59
				ADAMS COUNTY					
15N 01W 10BBB1	07-31-00	2.5	1.9	.2	62.3	172	.23	<.010	.382
19N 02E 29ADB1	08-01-00	46.8	6.7	.6	34.1	194	.26	<.010	.263
				BENEWAH COUNTY					
44N 01E 30CAC1	06-27-00	1.3	1.6	.3	59.2	162	.22	<.010	<.050
44N 02W 33BAA1	06-27-00	2.5	1.6	.2	48.8	168	.23	<.010	.808
45N 01W 29BAD1	06-29-00	2.9	1.6	.2	38.0	117	.16	<.010	<.050
45N 04W 12DAD1	06-28-00	4.8	.8	.3	35.1	153	.21	<.010	.113
46N 02W 36DAC1	06-28-00	4.7	3.6	.1	52.5	129	.18	<.010	1.47
46N 06W 01AAB1	06-29-00	.9	.7	.5	54.8	153	.21	<.010	.241
				BOISE COUNTY					
06N 05E 26CBB1	08-16-00	22.3	12.9	<.1	35.7	196	.27	<.010	<.050
07N 02E 23CAC1	08-22-00	79.9	34.6	11.8	18.3	372	.51	<.010	.207
07N 02E 34ABD1	09-08-00	4.3	2.4	.7	20.4	125	.17	<.010	.342
07N 05E 31DCCA1	08-16-00	.3	1.2	.3	10.2	52	.07	<.010	<.050
09N 04E 26BDB1	08-22-00	2.5	1.6	1.6	36.8	113	.15	<.010	1.17
09N 07E 34ABB1	08-16-00	4.8	3.3	2.0	19.8	141	.19	<.010	.217
				BONNER COUNTY					
54N 04W 29ABC1	06-26-00	18.1	<.3	<.1	13.9	--	--	<.010	<.050
55N 02E 04BDB1	08-01-00	5.3	.9	<.1	7.5	97	.13	<.010	.104
55N 03E 28BDD1S	08-01-00	5.1	.9	<.1	7.8	104	.14	<.010	<.050
55N 05W 19BDD2	06-26-00	5.5	1.7	.2	18.9	173	.24	.001	.727
55N 06W 01ADA1	08-29-00	3.4	.8	.1	16.2	176	.24	<.010	.364
56N 02W 10CAB1	06-21-00	27.2	1.2	.5	22.7	223	.30	.054	<.050
56N 04W 06BDD1	08-02-00	6.4	.4	.1	16.5	122	.17	<.010	<.050
56N 06W 36AAA1	06-26-00	14.9	1.0	.2	13.9	153	.21	<.010	<.050
57N 03W 33DDD1	08-02-00	2.3	.3	.1	20.4	100	.14	<.010	.086
58N 02W 26ABA1	08-15-00	2.8	E.2	.2	18.1	--	--	<.010	<.050

E Positive detection but below stated detection limit.

WATER QUALITY DATA, JUNE TO SEPTEMBER 2000

LOCAL IDENTIFIER	DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)
ADA COUNTY									
01N 01E 12DAA2	07-21-00	<.020	.021	2.5	59	<1.0	E10	<2	1.1
01N 01W 24AAA1	09-07-00	<.020	.016	4.0	13	<1.0	<10	<2	1.2
01N 03E 11DDB1	07-31-00	<.020	.025	4.2	44	<1.0	<10	<2	E.4
01S 01W 07CBB2	08-08-00	<.020	<.010	2.4	21	<1.0	E10	<2	1.2
01S 01W 30BAB1	08-08-00	.189	<.010	5.9	61	<1.0	10	35	<.7
02N 01E 31DDC1	08-02-00	<.020	.010	3.8	43	<1.0	E10	<2	<.7
02N 01W 01ABD1	06-20-00	<.020	.024	3.6	48	<1.0	<10	<2	E.7
02N 01W 10ABB1	06-20-00	<.020	.032	3.1	31	<1.0	E10	E2	E.6
02N 01W 12BAA1	06-20-00	<.020	.066	9.5	55	<1.0	<10	E2	E.5
02N 01W 27BCC1	06-21-00	<.020	<.010	2.2	36	<1.0	<10	E1	1.6
02N 01W 34CCD2	06-21-00	<.020	<.010	10.4	31	<1.0	10	<2	E.4
02N 02E 07BAD1	07-24-00	<.020	.037	3.4	21	<1.0	<10	E1	<.7
02N 02E 32DBA1	08-02-00	<.020	<.010	5.2	78	<1.0	<10	<2	2.1
02N 03E 06BCC1	08-07-00	<.020	.033	2.3	43	<1.0	<10	<2	.8
02N 03E 11ACC1	07-26-00	<.020	.028	1.3	7	<1.0	260	E1	<.7
02N 03E 28CAC1	07-31-00	<.020	.044	2.4	47	<1.0	<10	<2	E.4
03N 01E 17ACA1	07-20-00	<.020	.069	5.3	50	<1.0	<10	<2	<.7
03N 01E 21DCA1	07-20-00	<.020	.019	E.7	56	<1.0	<10	<2	E.5
03N 01E 22CCC1	07-20-00	<.020	.027	4.1	63	<1.0	10	<2	E.4
03N 01E 23DAB1	07-19-00	<.020	.100	5.0	59	<1.0	<10	<2	E.4
03N 01E 26BAD1	07-19-00	<.020	.022	1.6	102	<1.0	<10	<2	2.1
03N 02E 22ABDA1	07-24-00	<.020	.017	4.1	20	<1.0	<100	<2	<.7
03N 02E 24ACAD1	07-26-00	<.020	<.010	2.9	26	<1.0	<10	<2	<.7
03N 03E 30DAAD2	06-22-00	<.020	.010	E.6	27	<1.0	<10	<2	<.7
04N 01E 08DCB1	07-25-00	<.020	.083	4.5	38	<1.0	<100	<2	<.7
04N 01E 15BADC1	07-25-00	<.020	.039	2.1	46	<1.0	<100	<2	<.7
04N 01W 18ACA1	07-25-00	.025	.036	5.3	15	<1.0	<100	114	<.7
04N 01W 22DBB1	08-03-00	<.020	.022	1.8	100	<1.0	<10	<2	.9
04N 01W 23ADD1	07-28-00	<.020	<.010	E.8	173	<1.0	<10	3	E.7
04N 02E 19ABB1	07-05-00	<.020	.280	8.6	90	<1.0	<10	<2	E.5
04N 02E 32CAD1	07-28-00	<.020	.608	5.1	35	<1.0	20	180	<.7
05N 01E 29DCA1	08-01-00	<.020	.143	11.5	38	<1.0	<10	<2	E.4
05N 01E 30CAC1	08-01-00	<.020	.041	4.5	31	<1.0	760	48	<.7
05N 01E 31ABD2	08-01-00	<.020	.155	15.0	43	<1.0	<10	<2	<.7
05N 01E 32DBD1	08-01-00	<.020	.138	11.2	37	<1.0	<10	<2	<.7
05N 02E 30CDC2	07-07-00	<.020	.097	8.7	1	<1.0	<10	E1	.7
ADAMS COUNTY									
15N 01W 10BBB1	07-31-00	<.020	.051	4.0	4	<1.0	<10	<2	<.7
19N 02E 29ADB1	08-01-00	<.020	.054	<.9	43	<1.0	<10	<2	<.7
BENEWAH COUNTY									
44N 01E 30CAC1	06-27-00	<.020	.038	<.9	42	<1.0	1610	43	<.7
44N 02W 33BAA1	06-27-00	<.020	.283	<.9	11	<1.0	<10	<2	<.7
45N 01W 29BAD1	06-29-00	<.020	.053	4.2	43	<1.0	110	40	<.7
45N 04W 12DAD1	06-28-00	<.020	.158	<.9	152	<1.0	<10	6	<.7
46N 02W 36DAC1	06-28-00	<.020	.027	<.9	17	<1.0	30	5	<.7
46N 06W 01AAB1	06-29-00	<.020	.166	<.9	6	<1.0	<10	<2	<.7
BOISE COUNTY									
06N 05E 26CBB1	08-16-00	.115	<.010	17.3	222	<1.0	14700	668	<.7
07N 02E 23CAC1	08-22-00	.034	<.010	3.4	8	<1.0	<10	E2	<.7
07N 02E 34ABD1	09-08-00	<.020	<.010	<.9	29	<1.0	270	37	<.7
07N 05E 31DCCA1	08-16-00	.022	<.010	1.0	6	<1.0	140	233	<.7
09N 04E 26BDB1	08-22-00	<.020	.040	E.8	19	<1.0	E10	3	<.7
09N 07E 34ABB1	08-16-00	<.020	<.010	1.1	34	<1.0	<10	E2	<.7
BONNER COUNTY									
54N 04W 29ABC1	06-26-00	<.020	<.010	16.1	108	<1.0	830	172	<.7
55N 02E 04BDB1	08-01-00	<.020	.020	<.9	75	<1.0	<10	<2	<.7
55N 03E 28BDD1S	08-01-00	.028	.025	E.7	19	<1.0	<10	<2	<.7
55N 05W 19BDD2	06-26-00	.003	.005	E.8	39	<1.0	<10	<2	<.7
55N 06W 01ADA1	08-29-00	<.020	<.010	1.8	56	<1.0	<10	<2	<.7
56N 02W 10CAB1	06-21-00	<.020	<.010	<.9	1	<1.0	E10	25	<.7
56N 04W 06BDD1	08-02-00	<.020	.043	3.5	62	<1.0	E10	6	<.7
56N 06W 36AAA1	06-26-00	<.020	.024	15.1	E1	<1.0	<10	E1	<.7
57N 03W 33DDD1	08-02-00	<.020	.030	<.9	28	<1.0	<10	<2	<.7
58N 02W 26ABA1	08-15-00	.087	.198	12.0	23	<1.0	80	130	<.7

E Positive detection but below stated detection limit.

WATER QUALITY DATA, JUNE TO SEPTEMBER 2000

LOCAL IDENTIFIER	STATION NUMBER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
				BONNER COUNTY					
58N 04W 34ABB1	482036116501901	08-03-00	1430	64.51	270	7.9	30.0	8.8	--
59N 01W 04BDD1	482942116282101	08-15-00	1245	--	303	7.7	25.5	7.9	--
59N 01W 09BCC1	482849116285101	08-14-00	1435	10.14	194	8.0	26.0	7.8	--
59N 01W 27CAC1	482602116271101	08-14-00	1145	98.64	186	8.3	21.0	7.3	--
59N 04W 10CAB1	482842116505401	08-03-00	1235	--	110	8.5	28.5	7.5	--
60N 05W 24ABC1	483232116552901	08-03-00	0940	--	54	6.2	20.5	6.7	10.4
				BOUNDARY COUNTY					
61N 01E 06AAB1	484025116224401	06-22-00	1450	--	607	7.4	25.0	10.8	.4
62N 01W 24CAB1	484234116244201	06-23-00	0915	--	30	6.0	18.0	8.5	6.3
62N 02E 14ACD1	484330116094101	06-22-00	1305	--	428	7.2	23.5	9.4	2.5
65N 02E 23CBD1	485803116101601	06-22-00	1050	15.49	74	6.5	18.0	8.9	10.7
				CANYON COUNTY					
01N 02W 17DDA1	432510116353301	06-23-00	1348	--	1460	7.7	27.0	18.1	3.0
01N 02W 36CAA1	432240116313001	06-23-00	1115	--	502	8.3	22.5	24.4	.6
01N 03W 25AAA1	432403116375601	06-22-00	1340	374.77	1060	7.4	29.5	23.5	.4
01S 02W 14ADAD1	432019116315301	06-09-00	1035	65.20	489	7.8	18.4	16.4	4.6
01S 02W 24CBA1	431917116313301	06-29-00	1005	--	536	8.2	27.5	16.5	--
02N 02W 12CDD1	433105116312601	06-22-00	0945	--	731	7.6	25.0	16.2	6.0
02N 02W 20CBB1	432942116364101	08-09-00	1445	35.90	948	7.7	36.0	15.5	5.4
02N 02W 22CCA1	432928116340601	06-29-00	1205	--	781	8.1	29.0	19.8	.7
03N 01W 05BAA1	433802116290501	07-07-00	1325	--	950	7.4	28.5	12.8	3.8
03N 01W 18DAC1	433545116295201	06-29-00	1445	116.88	619	7.4	34.5	14.9	5.4
03N 02W 24BAD2	433516116312701	08-29-00	0855	--	543	7.4	17.5	14.1	6.0
03N 03W 09BAB1	433704116421901	07-07-00	1000	--	650	7.8	18.5	13.1	3.6
03N 03W 14CDA1	433531116394601	06-28-00	1140	--	954	7.4	26.5	14.5	5.3
03N 03W 15BBB1	433614116412501	06-28-00	0940	--	587	7.7	24.5	12.3	6.2
03N 03W 22ABB1	433522116403601	06-28-00	1405	--	510	7.8	33.5	15.2	1.5
03N 03W 31ADA1	433321116435601	07-20-00	1005	118.16	803	7.4	28.5	18.3	5.0
03N 05W 11ADB2	433649116534101	07-18-00	1420	--	706	7.5	29.0	16.8	5.8
04N 02W 02DDD1	434226116315701	06-26-00	1210	5.14	287	6.8	26.5	14.3	.2
04N 02W 06BBC1	434305116375201	06-27-00	0930	--	137	7.1	19.0	14.9	2.6
04N 02W 08ADD1	434200116353201	06-27-00	1110	.58	117	7.5	26.5	13.4	4.2
04N 02W 21CBB1	434014116353201	06-26-00	1440	--	592	7.1	30.5	13.9	4.2
04N 02W 22DCD1	433948116333201	06-26-00	1610	--	118	7.8	32.0	15.8	2.2
04N 03W 36BAC1	433843116384301	07-12-00	0920	--	187	7.9	23.0	18.8	2.8
04N 04W 04CDC1	434225116493101	07-12-00	1400	--	357	7.7	34.0	20.4	.5
04N 04W 05CAC1	434234116504601	07-05-00	1010	--	306	7.9	19.0	16.9	4.5
04N 04W 21CAA2	432835116492501	08-29-00	1125	--	791	7.7	21.0	14.5	5.5
04N 05W 14DAD1	434053116532901	07-05-00	1210	9.05	1660	7.5	20.0	13.7	--
04N 05W 21AAB2	434033116560501	07-05-00	1425	133.59	372	7.7	23.0	17.4	--
04N 05W 23CBB1	434006116543701	07-12-00	1530	--	1210	7.6	35.0	14.6	5.1
05N 02W 25BCD1	434436116313601	06-26-00	0950	--	386	7.7	21.0	17.2	--
05N 03W 19AAD1	434545116435701	07-12-00	1010	--	183	7.4	31.0	16.5	1.0
05N 05W 32CDC1	434313116574901	07-18-00	1220	--	701	7.6	30.0	18.0	1.2
06N 06W 24DAD1	435026116593901	07-17-00	1610	--	705	7.6	33.0	15.5	.4
				CLEARWATER COUNTY					
36N 02E 22BBBC1	462718116115801	08-08-00	1210	--	280	7.5	32.5	14.8	--
36N 03E 23CAC1	462646116030801	08-08-00	0845	--	159	6.8	27.5	9.3	--
37N 01E 29BBB1	463145116215401	08-09-00	0915	84.13	298	6.9	25.0	10.6	--
38N 01W 23CAB1	463718116253901	08-07-00	1645	--	183	7.0	28.5	10.6	--
				CUSTER COUNTY					
10N 13E 03CDC1	441306114554401	07-26-00	1045	8.10	214	9.4	22.8	11.1	4.3
10N 13E 09ADC1	441240114561501	07-26-00	1350	78.66	104	6.8	28.5	8.0	6.5
10N 13E 26DCB1	440941114541601	07-26-00	1535	8.90	64	7.2	27.5	6.8	6.4
14N 19E 28ABB2	443052114132101	08-01-00	1545	--	490	8.0	36.2	10.8	9.5
14N 22E 18DDD1	443213113532501	08-01-00	1350	105.10	526	7.8	32.3	9.1	8.4
				ELMORE COUNTY					
02S 05E 11BAA1	431620115493801	08-11-00	1120	--	330	8.0	24.5	18.5	8.7
03S 06E 12ADC1	431041115405201	08-21-00	1445	54.03	299	8.1	29.5	14.9	7.5
03S 06E 27DDD1	430741115430001	07-28-00	1115	--	206	8.4	27.0	20.3	8.0
04S 02E 25DAD2	430242116092101	08-24-00	1125	--	745	7.2	28.5	16.3	9.7
04S 07E 17CAB1	430432115390501	08-25-00	1115	326.30	476	7.9	25.5	21.0	8.4

WATER QUALITY DATA, JUNE TO SEPTEMBER 2000

LOCAL IDENTIFIER	DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
BONNER COUNTY										
58N 04W 34ABB1	08-03-00	<1	140	34.7	12.4	5.3	9.1	140	0	119
59N 01W 04BDD1	08-15-00	<1	150	51.4	4.22	3.0	1.0	190	0	156
59N 01W 09BCC1	08-14-00	<1	96	31.2	4.33	1.6	.8	120	0	95
59N 01W 27CAC1	08-14-00	<1	94	32.6	3.01	1.8	.9	110	0	93
59N 04W 10CAB1	08-03-00	<1	51	18.0	1.43	2.6	3.2	68	0	55
60N 05W 24ABC1	08-03-00	<1	18	5.70	1.02	3.3	6.0	26	0	21
BOUNDARY COUNTY										
61N 01E 06AAB1	06-22-00	<1	310	71.9	32.8	9.1	3.1	380	0	308
62N 01W 24CAB1	06-23-00	<1	10	2.98	.62	1.7	.5	16	0	13
62N 02E 14ACD1	06-22-00	<1	190	52.8	14.0	14.8	1.8	210	0	171
65N 02E 23CBD1	06-22-00	<1	22	5.57	1.88	4.4	1.5	31	0	25
CANYON COUNTY										
01N 02W 17DDA1	06-23-00	K4	470	97.0	56.2	137	8.0	290	0	238
01N 02W 36CAA1	06-23-00	<1	69	17.0	6.46	84.3	4.5	200	2	172
01N 03W 25AAA1	06-22-00	<1	250	58.2	26.0	120	25.9	330	0	272
01S 02W 14ADAD1	06-09-00	<1	210	50.0	21.1	21.6	5.2	230	0	191
01S 02W 24CBA1	06-29-00	<1	120	21.8	16.1	67.4	4.6	220	0	181
02N 02W 12CDD1	06-22-00	<1	300	66.6	31.9	48.6	3.7	310	0	257
02N 02W 20CBB1	08-09-00	<1	300	64.4	34.8	92.4	3.7	340	0	281
02N 02W 22CCA1	06-29-00	<1	91	29.1	4.44	136	1.4	230	0	189
03N 01W 05BAA1	07-07-00	<1	300	86.8	19.9	80.8	2.9	380	0	311
03N 01W 18DAC1	06-29-00	<1	200	61.2	12.5	61.6	1.6	310	0	252
03N 02W 24BAD2	08-29-00	K2	240	53.9	25.0	25.3	2.5	300	0	248
03N 03W 09BAB1	07-07-00	<1	97	24.1	8.86	101	4.2	320	0	264
03N 03W 14CDA1	06-28-00	<1	280	71.6	23.7	109	3.6	380	0	308
03N 03W 15BBB1	06-28-00	<1	180	50.6	13.5	52.0	3.9	190	0	157
03N 03W 22ABB1	06-28-00	<1	140	45.9	6.57	52.2	2.8	150	0	125
03N 03W 31ADA1	07-20-00	<1	300	84.3	21.5	67.8	7.9	290	0	241
03N 05W 11ADB2	07-18-00	<1	220	54.1	20.9	69.3	12.1	350	0	287
04N 02W 02DDD1	06-26-00	<1	110	33.0	5.90	19.6	1.9	150	0	123
04N 02W 06BBC1	06-27-00	<1	47	13.8	2.92	8.4	1.0	73	0	60
04N 02W 08ADD1	06-27-00	<1	45	13.4	2.75	7.1	1.1	67	0	55
04N 02W 21CBB1	06-26-00	<1	230	65.7	16.4	35.6	2.7	200	0	168
04N 02W 22DCD1	06-26-00	<1	36	10.7	2.22	10.8	.9	63	0	52
04N 03W 36BAC1	07-12-00	<1	41	13.9	1.64	24.7	1.1	94	0	77
04N 04W 04CDC1	07-12-00	<1	47	15.9	1.65	53.7	7.1	220	0	179
04N 04W 05CAC1	07-05-00	<1	55	18.9	1.83	43.3	6.0	180	0	144
04N 04W 21CAA2	08-29-00	<1	260	44.5	37.3	76.1	2.8	410	0	336
04N 05W 14DAD1	07-05-00	<1	480	111	48.0	161	10.5	290	0	240
04N 05W 21AAB2	07-05-00	<1	140	38.6	10.1	22.4	8.9	180	0	145
04N 05W 23CBB1	07-12-00	<1	380	87.8	39.6	95.3	1.7	290	0	239
05N 02W 25BCD1	06-26-00	<1	140	41.3	9.32	28.3	2.2	200	0	165
05N 03W 19AAD1	07-12-00	<1	65	18.2	4.71	10.9	2.7	88	0	72
05N 05W 32CDC1	07-18-00	<1	230	51.4	23.5	58.3	9.7	250	0	207
06N 06W 24DAD1	07-17-00	<1	260	77.9	16.6	47.5	12.6	360	0	299
CLEARWATER COUNTY										
36N 02E 22BBBC1	08-08-00	<1	110	25.4	10.4	11.2	4.0	110	0	89
36N 03E 23CAC1	08-08-00	<1	68	15.0	7.35	6.5	1.6	99	0	81
37N 01E 29BBB1	08-09-00	<1	130	19.9	18.7	12.3	5.2	170	0	140
38N 01W 23CAB1	08-07-00	<1	71	20.1	5.04	8.8	2.3	98	0	81
CUSTER COUNTY										
10N 13E 03CDC1	07-26-00	K1	20	7.32	.52	39.5	.7	49	16	67
10N 13E 09ADC1	07-26-00	<1	41	11.7	2.91	4.9	.5	58	0	48
10N 13E 26DCB1	07-26-00	<1	15	4.62	.90	7.4	.8	30	0	24
14N 19E 28ABB2	08-01-00	<1	210	49.3	21.7	23.8	1.4	260	0	217
14N 22E 18DDD1	08-01-00	<1	260	68.4	21.9	13.7	1.1	300	0	249
ELMORE COUNTY										
02S 05E 11BAA1	08-11-00	<1	99	26.2	8.21	31.4	6.8	160	0	130
03S 06E 12ADC1	08-21-00	<1	100	22.3	10.9	20.5	3.1	110	0	90
03S 06E 27DDD1	07-28-00	<1	72	16.9	7.19	12.6	3.1	--	--	78
04S 02E 25DAD2	08-24-00	<1	320	74.1	32.0	31.3	7.8	390	0	318
04S 07E 17CAB1	08-25-00	<1	170	38.0	19.4	25.5	4.0	150	0	123

K Results based on counts outside ideal colony range.

WATER QUALITY DATA, JUNE TO SEPTEMBER 2000

LOCAL IDENTIFIER	DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
				BONNER COUNTY					
58N 04W 34ABB1	08-03-00	16.5	.5	.1	23.9	174	.24	<.010	<.050
59N 01W 04BDD1	08-15-00	<.3	E.3	.1	16.7	--	--	<.010	<.050
59N 01W 09BCC1	08-14-00	3.3	.4	<.1	17.6	116	.16	<.010	<.050
59N 01W 27CAC1	08-14-00	.6	.3	<.1	19.2	114	.16	<.010	.119
59N 04W 10CAB1	08-03-00	1.4	.4	<.1	16.8	77	.11	<.010	<.050
60N 05W 24ABC1	08-03-00	2.0	.7	<.1	26.5	58	.08	<.001	.076
				BOUNDARY COUNTY					
61N 01E 06AAB1	06-22-00	18.0	1.0	.5	19.2	341	.46	<.010	<.050
62N 01W 24CAB1	06-23-00	.6	E.2	<.1	12.1	--	--	<.010	<.050
62N 02E 14ACD1	06-22-00	45.3	3.6	.2	23.5	259	.35	<.010	.133
65N 02E 23CBD1	06-22-00	1.4	4.7	<.1	20.4	57	.08	<.010	.395
				CANYON COUNTY					
01N 02W 17DDA1	06-23-00	342	97.6	.3	41.9	977	1.33	.194	12.2
01N 02W 36CAA1	06-23-00	50.5	15.9	1.4	46.2	338	.46	<.010	1.82
01N 03W 25AAA1	06-22-00	150	66.4	.9	65.8	702	.96	<.010	5.16
01S 02W 14ADAD1	06-09-00	25.4	10.5	.5	36.9	303	.41	<.010	3.95
01S 02W 24CBA1	06-29-00	32.9	13.3	.8	34.3	346	.47	<.010	10.4
02N 02W 12CDD1	06-22-00	95.4	14.0	.8	57.6	496	.67	<.010	5.18
02N 02W 20CBB1	08-09-00	141	17.5	.8	51.7	643	.87	<.010	15.5
02N 02W 22CCA1	06-29-00	145	29.3	2.3	16.8	479	.65	<.010	.068
03N 01W 05BAA1	07-07-00	122	24.2	.3	32.3	593	.81	<.010	8.44
03N 01W 18DAC1	06-29-00	63.8	7.2	.4	37.0	410	.56	<.010	3.07
03N 02W 24BAD2	08-29-00	25.3	4.6	1.1	59.6	359	.49	<.010	2.89
03N 03W 09BAB1	07-07-00	46.5	8.0	.9	51.6	432	.59	<.010	6.50
03N 03W 14CDA1	06-28-00	118	33.1	.6	46.5	639	.87	<.010	11.0
03N 03W 15BBB1	06-28-00	76.5	28.7	.5	45.2	377	.51	<.010	2.66
03N 03W 22ABB1	06-28-00	77.8	32.4	.4	21.5	316	.43	<.010	.208
03N 03W 31ADA1	07-20-00	120	25.3	.4	53.2	556	.76	<.010	7.06
03N 05W 11ADB2	07-18-00	52.2	9.3	.7	72.1	490	.67	<.010	6.22
04N 02W 02DDD1	06-26-00	14.1	4.0	.2	26.5	183	.25	<.010	.968
04N 02W 06BBC1	06-27-00	5.5	1.9	.3	31.4	102	.14	<.010	.161
04N 02W 08ADD1	06-27-00	2.8	.6	.3	34.0	96	.13	<.010	.105
04N 02W 21CBB1	06-26-00	84.1	25.3	.2	33.3	375	.51	<.010	2.29
04N 02W 22DCD1	06-26-00	4.6	1.4	.3	27.4	90	.12	<.010	.193
04N 03W 36BAC1	07-12-00	10.2	4.1	.6	30.1	134	.18	<.010	.324
04N 04W 04CDC1	07-12-00	<.3	5.7	2.0	79.6	--	--	<.010	<.050
04N 04W 05CAC1	07-05-00	6.0	6.3	.9	65.6	237	.32	<.010	<.050
04N 04W 21CAA2	08-29-00	52.9	7.3	.7	70.1	521	.71	<.010	6.15
04N 05W 14DAD1	07-05-00	279	203	.6	64.4	1070	1.45	<.010	10.1
04N 05W 21AAB2	07-05-00	27.6	5.7	.9	71.2	283	.39	<.010	2.46
04N 05W 23CBB1	07-12-00	193	104	.8	62.1	777	1.06	<.010	11.2
05N 02W 25BCD1	06-26-00	21.1	7.2	.4	35.2	251	.34	<.010	1.48
05N 03W 19AAD1	07-12-00	11.4	6.1	.3	56.8	155	.21	<.010	.205
05N 05W 32CDC1	07-18-00	78.8	32.5	.8	68.3	477	.65	<.010	6.70
06N 06W 24DAD1	07-17-00	52.5	15.9	.4	65.0	472	.64	<.010	<.050
				CLEARWATER COUNTY					
36N 02E 22BBBC1	08-08-00	2.6	6.7	.1	59.9	216	.29	<.010	9.49
36N 03E 23CAC1	08-08-00	1.0	.5	<.1	48.8	130	.18	<.010	.143
37N 01E 29BBB1	08-09-00	9.7	1.6	.2	64.3	218	.30	<.010	.271
38N 01W 23CAB1	08-07-00	7.2	1.1	.3	56.2	150	.20	<.010	.085
				CUSTER COUNTY					
10N 13E 03CDC1	07-26-00	13.5	5.2	6.8	44.6	161	.22	<.010	.651
10N 13E 09ADC1	07-26-00	1.6	.9	<.1	28.1	81	.11	<.010	.418
10N 13E 26DCB1	07-26-00	1.6	.7	1.9	25.0	58	.08	<.010	.061
14N 19E 28ABB2	08-01-00	33.1	5.7	.2	20.5	290	.39	<.010	1.02
14N 22E 18DDD1	08-01-00	20.3	5.8	.1	17.9	305	.42	<.010	1.46
				ELMORE COUNTY					
02S 05E 11BAA1	08-11-00	17.0	10.0	.9	50.8	233	.32	<.010	.791
03S 06E 12ADC1	08-21-00	26.6	15.2	.7	49.3	209	.28	<.010	1.31
03S 06E 27DDD1	07-28-00	11.4	5.2	.2	40.2	151	.20	<.010	1.57
04S 02E 25DAD2	08-24-00	48.2	22.1	1.1	66.7	478	.65	<.010	.762
04S 07E 17CAB1	08-25-00	60.8	25.5	.4	49.3	314	.43	<.010	3.81

E Positive detection but below stated detection limit.

WATER QUALITY DATA, JUNE TO SEPTEMBER 2000

LOCAL IDENTIFIER	DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)
				BONNER COUNTY					
58N 04W 34ABB1	08-03-00	.022	<.010	<.9	68	<1.0	240	19	<.7
59N 01W 04BDD1	08-15-00	.102	<.010	3.6	55	<1.0	2510	305	<.7
59N 01W 09BCC1	08-14-00	<.020	<.010	E.6	10	<1.0	<10	E2	<.7
59N 01W 27CAC1	08-14-00	<.020	<.010	2.0	12	<1.0	E10	<2	<.7
59N 04W 10CAB1	08-03-00	<.020	<.010	E.6	4	<1.0	40	15	<.7
60N 05W 24ABC1	08-03-00	.005	.007	<.9	4	<1.0	10	5	<.7
				BOUNDARY COUNTY					
61N 01E 06AAB1	06-22-00	<.020	.011	<.9	39	<1.0	140	187	<.7
62N 01W 24CAB1	06-23-00	<.020	<.010	<.9	3	<1.0	10	<2	<.7
62N 02E 14ACD1	06-22-00	<.020	<.010	<.9	33	<1.0	10	<2	<.7
65N 02E 23CBD1	06-22-00	<.020	<.010	<.9	4	<1.0	10	<2	<.7
				CANYON COUNTY					
01N 02W 17DDA1	06-23-00	<.020	.022	9.3	34	<1.0	E10	<2	2.6
01N 02W 36CAA1	06-23-00	.307	.013	1.0	6	<1.0	<10	E2	<.7
01N 03W 25AAA1	06-22-00	1.76	.038	26.5	98	<1.0	10	149	1.1
01S 02W 14ADAD1	06-09-00	<.020	<.010	1.5	20	<1.0	<10	3	E.5
01S 02W 24CBA1	06-29-00	<.020	.015	16.9	11	<1.0	<10	<2	E.5
02N 02W 12CDD1	06-22-00	<.020	.034	16.5	16	<1.0	<10	<2	1.0
02N 02W 20CBB1	08-09-00	<.020	.020	14.0	36	<1.0	20	5	2.5
02N 02W 22CCA1	06-29-00	.169	<.010	2.3	65	<1.0	20	175	.7
03N 01W 05BAA1	07-07-00	<.020	.094	2.1	45	<1.0	10	E2	1.5
03N 01W 18DAC1	06-29-00	<.020	.023	1.2	86	<1.0	<10	<2	E.4
03N 02W 24BAD2	08-29-00	<.020	.044	17.6	63	<1.0	<10	<2	<.7
03N 03W 09BAB1	07-07-00	<.020	.026	52.3	44	<1.0	<10	<2	1.3
03N 03W 14CDA1	06-28-00	<.020	.022	7.3	80	<1.0	E10	<2	1.6
03N 03W 15BBB1	06-28-00	<.020	.011	11.3	61	<1.0	<10	<2	.9
03N 03W 22ABB1	06-28-00	<.020	<.010	6.0	9	<1.0	10	<2	E.5
03N 03W 31ADA1	07-20-00	<.020	.020	10.2	47	<1.0	E10	4	10.3
03N 05W 11ADB2	07-18-00	<.020	.028	33.4	69	<1.0	<10	<2	1.4
04N 02W 02DDD1	06-26-00	<.020	.020	E.7	56	<1.0	60	6	<.7
04N 02W 06BBC1	06-27-00	<.020	.022	1.8	22	<1.0	<10	<2	E.4
04N 02W 08ADD1	06-27-00	<.020	.023	1.2	25	<1.0	<10	<2	<.7
04N 02W 21CBB1	06-26-00	<.020	.042	1.0	150	<1.0	<10	<2	E.7
04N 02W 22DCD1	06-26-00	<.020	.018	6.2	5	<1.0	<10	E1	<.7
04N 03W 36BAC1	07-12-00	<.020	.013	5.5	26	<1.0	<10	<2	<.7
04N 04W 04CDC1	07-12-00	1.92	.057	1.3	52	<1.0	70	100	E.4
04N 04W 05CAC1	07-05-00	1.70	.048	<.9	59	<1.0	110	84	<.7
04N 04W 21CAA2	08-29-00	<.020	.039	23.8	53	<1.0	<10	<2	1.1
04N 05W 14DAD1	07-05-00	<.020	.023	19.4	29	<1.0	<10	E2	8.2
04N 05W 21AAB2	07-05-00	<.020	.024	55.8	14	<1.0	<10	E2	E.6
04N 05W 23CBB1	07-12-00	<.020	.022	41.2	28	<1.0	<10	<2	4.7
05N 02W 25BCD1	06-26-00	<.020	.070	3.6	79	<1.0	20	28	E.4
05N 03W 19AAD1	07-12-00	<.020	.072	12.7	25	<1.0	<10	<2	.7
05N 05W 32CDC1	07-18-00	<.020	.039	18.0	43	<1.0	E10	E1	E.5
06N 06W 24DAD1	07-17-00	2.93	.047	27.1	93	<1.0	30	516	<.7
				CLEARWATER COUNTY					
36N 02E 22BBBC1	08-08-00	<.020	.067	<.9	3	<1.0	<10	<2	E.4
36N 03E 23CAC1	08-08-00	<.020	.090	<.9	19	<1.0	E10	<2	<.7
37N 01E 29BBB1	08-09-00	<.020	.104	E.7	27	<1.0	650	71	3.7
38N 01W 23CAB1	08-07-00	<.020	.034	<.9	8	<1.0	<10	<2	E.4
				CUSTER COUNTY					
10N 13E 03CDC1	07-26-00	<.020	.037	2.8	2	<1.0	40	<2	<.7
10N 13E 09ADC1	07-26-00	<.020	.019	<.9	1	<1.0	<50	<2	<.7
10N 13E 26DCB1	07-26-00	<.020	<.010	<.9	M	<1.0	<50	<2	<.7
14N 19E 28ABB2	08-01-00	<.020	.015	E.5	30	<1.0	<10	<2	<.7
14N 22E 18DDD1	08-01-00	<.020	.014	E.7	131	<1.0	<10	<2	1.5
				ELMORE COUNTY					
02S 05E 11BAA1	08-11-00	<.020	.015	4.5	29	<1.0	<10	<2	E.5
03S 06E 12ADC1	08-21-00	<.020	.010	3.5	8	<1.0	<10	<2	E.6
03S 06E 27DDD1	07-28-00	<.020	.013	1.9	2	<1.0	<10	<2	<.7
04S 02E 25DAD2	08-24-00	<.020	.015	7.6	96	<1.0	<10	<2	.9
04S 07E 17CAB1	08-25-00	<.020	<.010	1.9	11	<1.0	<10	<2	1.0

E Positive detection but below stated detection limit.

WATER QUALITY DATA, JUNE TO SEPTEMBER 2000

LOCAL IDENTIFIER	STATION NUMBER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
				ELMORE COUNTY					
04S 09E 03DCA1	430605115215901	08-25-00	1415	--	280	8.1	29.5	19.5	3.7
05S 07E 16ABD1	425939115372401	08-24-00	1425	--	559	7.6	33.0	22.8	.0
05S 10E 30BDA1	425746115184701	09-06-00	1035	--	766	7.6	18.0	17.0	.0
06S 10E 31CCC1	425105115191801	09-06-00	1400	298.93	480	7.5	19.5	22.1	.0
06S 11E 06BBA1	425617115120001	09-06-00	1640	128.31	1670	7.4	20.5	17.8	1.2
				GEM COUNTY					
06N 01W 03CBB2	435310116265802	07-10-00	1010	11.65	297	7.1	21.0	15.9	5.2
06N 01W 05CDD1	435248116290001	07-11-00	0925	--	280	7.0	23.5	15.9	.4
06N 02W 13CAB1	435126116312501	07-10-00	1325	--	276	7.8	29.0	13.8	.8
07N 02W 30BCC1	435458116375001	07-17-00	1145	30.36	560	7.4	26.0	14.6	5.5
07N 03W 24CBC1	435542116390201	07-10-00	1530	--	438	7.6	31.5	14.3	.5
07N 03W 28CDD1	435433116420501	07-11-00	1135	-.41	178	7.6	30.5	14.6	.5
				IDAHO COUNTY					
31N 01E 08ABB3	460314116212501	08-01-00	1305	--	315	7.4	29.0	12.3	.4
31N 03E 36BCA1	455906116015301	08-02-00	1935	160.02	314	7.3	30.0	13.5	2.2
32N 01W 19DBC1	460548116300601	08-01-00	1440	12.20	212	7.7	31.5	9.8	.4
32N 03E 11DCC1	460714116023801	08-02-00	1205	151.45	589	6.8	31.5	13.8	1.4
32N 05E 21BDA1	460605115501801	08-02-00	1710	--	176	7.2	33.0	13.1	2.1
33N 04E 14BAD1	461217115552501	08-02-00	1500	194.79	110	6.8	33.0	12.5	8.7
				KOOTENAI COUNTY					
47N 05W 24DDA1	472353116534301	08-30-00	0925	58.38	176	6.9	16.0	11.5	1.7
48N 04W 20ACC1	472923116525401	08-30-00	1300	141.19	283	7.8	23.0	12.3	.7
50N 03W 06DAA1	474226116444101	07-18-00	1305	--	191	6.6	28.5	8.4	12.0
51N 03W 19BAB1	474529116452601	08-16-00	1055	--	66	6.4	23.0	8.9	5.2
53N 03W 29CCC1	475416116442601	07-18-00	0900	--	244	7.8	20.5	9.1	13.7
53N 03W 30BAA1	475055116451401	07-20-00	0955	--	422	7.7	26.0	11.5	12.7
				LATAH COUNTY					
38N 04W 04DDD1	463930116500101	08-09-00	1530	16.11	263	6.8	35.0	10.1	--
38N 04W 31AAB1	463558116524601	08-09-00	1755	--	270	7.2	32.5	11.8	--
38N 05W 10ABC1	463922116564901	08-23-00	1130	--	257	6.9	28.5	9.9	2.9
38N 05W 28CBD1	463538116591501	08-24-00	0850	65.42	253	7.0	24.0	10.9	2.6
39N 03W 07DAC1	464402116450801	08-07-00	1310	--	292	7.5	29.0	12.3	--
39N 05W 07BDA2	464425117004301	08-10-00	0740	--	362	7.6	21.0	23.1	--
41N 04W 06BAC1	465543116531501	08-10-00	1135	135.02	337	8.4	26.5	17.9	--
41N 05W 08BBC1	465452116595301	08-23-00	0835	98.61	277	7.3	22.0	11.3	5.0
				LEMHI COUNTY					
15N 22E 30BBC1	443621113543501	08-01-00	1235	28.07	152	7.3	30.0	10.2	9.9
16N 25E 03DBA1	444438113274501	08-02-00	0910	--	445	7.4	21.0	11.2	6.4
17N 24E 14DBA1	444806113335601	08-02-00	1110	--	477	7.5	27.0	6.2	3.7
21N 22E 08CBB1	450946113532401	08-02-00	1530	--	862	7.2	33.5	13.1	.2
21N 22E 15BAC2	450918113504101	08-02-00	1400	--	566	7.1	32.5	11.6	3.1
				LEWIS COUNTY					
33N 01E 13CAC1	461155116163701	07-26-00	1550	80.63	654	7.3	28.5	12.5	--
34N 03W 04ABD1	461920116423301	07-27-00	0900	287.10	245	7.6	24.5	14.0	--
				NEZ PERCE COUNTY					
35N 01W 19AADC1	462158116294101	07-27-00	1220	--	333	7.6	25.0	16.9	--
35N 05W 25ADD1	462056116535201	07-26-00	1050	292.96	520	7.8	25.0	18.0	--
36N 03W 07BDAD1	462852116453301	08-08-00	1540	172.88	338	8.0	37.5	16.4	--
37N 03W 03ABB1	463506116414501	08-09-00	1215	--	428	7.7	37.0	17.8	--
37N 05W 24AAA1	463227116535301	08-23-00	1750	95.05	288	7.4	34.0	11.5	5.2

WATER QUALITY DATA, JUNE TO SEPTEMBER 2000

LOCAL IDENTIFIER	DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
ELMORE COUNTY										
04S 09E 03DCA1	08-25-00	<1	24	7.17	1.56	48.8	4.0	120	0	96
05S 07E 16ABD1	08-24-00	<1	200	53.3	15.7	34.5	7.9	200	0	168
05S 10E 30BDA1	09-06-00	<1	240	32.4	37.8	75.0	7.4	340	0	276
06S 10E 31CCC1	09-06-00	<1	55	16.2	3.57	69.9	19.5	220	0	178
06S 11E 06BBA1	09-06-00	<1	710	163	74.7	81.7	30.4	480	0	395
GEM COUNTY										
06N 01W 03CBB2	07-10-00	<1	110	32.3	6.50	14.7	6.3	140	0	112
06N 01W 05CDD1	07-11-00	<1	89	27.5	4.83	22.0	2.5	120	0	100
06N 02W 13CAB1	07-10-00	<1	91	25.2	6.84	21.6	1.2	160	0	136
07N 02W 30BCC1	07-17-00	<1	120	33.6	8.39	84.6	3.1	310	0	255
07N 03W 24CBC1	07-10-00	<1	150	48.1	7.01	33.5	1.5	230	0	185
07N 03W 28CDD1	07-11-00	<1	59	17.7	3.47	13.4	1.9	97	0	79
IDAHO COUNTY										
31N 01E 08ABB3	08-01-00	<1	120	27.7	11.5	18.7	2.0	190	0	153
31N 03E 36BCA1	08-02-00	<1	120	23.5	14.4	18.4	3.2	180	0	150
32N 01W 19DBC1	08-01-00	<1	69	18.7	5.43	15.1	1.5	100	0	86
32N 03E 11DCC1	08-02-00	<1	220	41.4	28.1	41.1	4.8	320	0	261
32N 05E 21BDA1	08-02-00	<1	63	14.5	6.43	11.6	8.9	88	0	72
33N 04E 14BAD1	08-02-00	<1	45	9.26	5.42	4.9	5.1	62	0	51
KOOTENAI COUNTY										
47N 05W 24DDA1	08-30-00	<1	71	15.9	7.65	7.2	3.5	100	0	83
48N 04W 20ACC1	08-30-00	<1	110	17.3	17.1	15.5	5.5	170	0	141
50N 03W 06DAA1	07-18-00	--	79	21.3	6.34	4.5	1.4	83	0	68
51N 03W 19BAB1	08-16-00	<1	28	7.65	2.16	1.7	.8	35	0	29
53N 03W 29CCC1	07-18-00	<1	120	29.9	10.4	2.1	1.5	140	0	112
53N 03W 30BAA1	07-20-00	<1	210	41.0	27.1	2.4	2.4	230	0	188
LATAH COUNTY										
38N 04W 04DDD1	08-09-00	<1	110	27.1	9.26	13.6	1.2	140	0	112
38N 04W 31AAB1	08-09-00	<1	110	26.1	12.1	10.9	3.1	170	0	138
38N 05W 10ABC1	08-23-00	<1	100	26.1	8.89	15.8	1.3	140	0	111
38N 05W 28CBD1	08-24-00	<1	110	28.4	9.87	10.3	1.3	160	0	127
39N 03W 07DAC1	08-07-00	<1	120	21.3	15.3	16.3	2.8	170	0	140
39N 05W 07BDA2	08-10-00	<1	82	21.5	6.86	46.5	4.1	220	0	183
41N 04W 06BAC1	08-10-00	<1	62	17.5	4.39	52.2	2.4	200	2	168
41N 05W 08BBC1	08-23-00	<1	110	27.0	10.8	10.0	1.9	140	0	112
LEMHI COUNTY										
15N 22E 30BBC1	08-01-00	<1	64	13.8	7.17	5.3	.8	73	0	60
16N 25E 03DBA1	08-02-00	K2	220	64.1	15.4	6.6	3.2	250	0	208
17N 24E 14DBA1	08-02-00	<1	220	58.1	18.2	13.1	3.8	230	0	189
21N 22E 08CBB1	08-02-00	<1	220	66.5	12.6	107	5.9	420	0	342
21N 22E 15BAC2	08-02-00	<1	210	57.5	16.9	34.9	4.2	260	0	216
LEWIS COUNTY										
33N 01E 13CAC1	07-26-00	<1	260	65.4	22.3	31.5	3.3	220	0	184
34N 03W 04ABD1	07-27-00	<1	110	23.2	11.5	9.1	3.2	140	0	111
NEZ PERCE COUNTY										
35N 01W 19AADC1	07-27-00	<1	110	25.5	12.0	22.6	8.7	180	0	146
35N 05W 25ADD1	07-26-00	<1	140	36.5	11.2	50.7	6.0	170	0	138
36N 03W 07BDAD1	08-08-00	<1	150	14.5	27.9	14.4	1.7	190	0	159
37N 03W 03ABB1	08-09-00	<1	170	39.2	18.3	21.9	3.8	220	0	182
37N 05W 24AAA1	08-23-00	<1	130	29.2	13.2	12.0	2.2	170	0	142

K Results based on counts outside ideal colony range.

WATER QUALITY DATA, JUNE TO SEPTEMBER 2000

LOCAL IDENTIFIER	DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
				ELMORE COUNTY					
04S 09E 03DCA1	08-25-00	8.6	5.0	12.8	58.8	204	.28	<.010	<.050
05S 07E 16ABD1	08-24-00	99.5	10.8	1.1	81.2	405	.55	<.010	<.050
05S 10E 30BDA1	09-06-00	82.3	28.2	1.0	60.0	495	.67	<.010	1.13
06S 10E 31CCC1	09-06-00	41.4	8.5	2.9	76.6	348	.47	<.010	<.050
06S 11E 06BBA1	09-06-00	397	52.2	.4	41.2	1140	1.56	.489	15.1
				GEM COUNTY					
06N 01W 03CBB2	07-10-00	15.4	3.6	.4	72.8	241	.33	<.010	4.57
06N 01W 05CDD1	07-11-00	26.0	7.8	.8	27.1	180	.24	.012	.205
06N 02W 13CAB1	07-10-00	5.3	2.7	1.1	21.6	168	.23	<.010	<.050
07N 02W 30BCC1	07-17-00	18.5	3.9	.5	55.8	389	.53	<.010	6.01
07N 03W 24CBC1	07-10-00	32.2	8.6	.3	26.7	271	.37	.015	.224
07N 03W 28CDD1	07-11-00	8.6	2.8	.3	36.0	132	.18	<.010	.063
				IDAHO COUNTY					
31N 01E 08ABB3	08-01-00	9.0	2.9	.6	56.0	221	.30	<.010	.071
31N 03E 36BCA1	08-02-00	10.5	2.2	.5	52.8	215	.29	<.010	<.050
32N 01W 19DBC1	08-01-00	17.2	1.0	.2	46.9	159	.22	<.010	<.050
32N 03E 11DCC1	08-02-00	30.7	10.8	.2	35.6	353	.48	<.010	.802
32N 05E 21BDA1	08-02-00	9.3	1.4	.2	61.4	160	.22	<.010	.686
33N 04E 14BAD1	08-02-00	1.1	.6	<.1	42.6	103	.14	<.010	.659
				KOOTENAI COUNTY					
47N 05W 24DDA1	08-30-00	2.8	1.0	.3	39.3	129	.18	<.010	.289
48N 04W 20ACC1	08-30-00	4.2	2.3	.3	37.1	185	.25	<.010	.114
50N 03W 06DAA1	07-18-00	7.2	5.4	<.1	25.7	118	.16	<.010	1.08
51N 03W 19BAB1	08-16-00	1.9	.8	<.1	10.5	43	.06	<.010	.101
53N 03W 29CCC1	07-18-00	5.1	.8	<.1	14.1	133	.18	<.010	.447
53N 03W 30BAA1	07-20-00	13.3	.4	<.1	14.3	214	.29	<.010	<.050
				LATAH COUNTY					
38N 04W 04DDD1	08-09-00	2.8	2.3	.2	60.6	201	.27	<.010	3.70
38N 04W 31AAB1	08-09-00	1.7	1.0	.3	50.5	190	.26	<.010	.061
38N 05W 10ABC1	08-23-00	5.8	2.7	.3	52.2	189	.26	<.010	2.10
38N 05W 28CBD1	08-24-00	1.9	1.8	.2	55.4	187	.25	<.010	.208
39N 03W 07DAC1	08-07-00	10.0	1.6	.2	41.9	193	.26	<.010	<.050
39N 05W 07BDA2	08-10-00	2.9	2.9	1.3	79.1	276	.38	<.010	<.050
41N 04W 06BAC1	08-10-00	7.8	2.8	.3	18.8	207	.28	<.010	<.050
41N 05W 08BBC1	08-23-00	9.2	2.7	.2	53.4	197	.27	<.010	3.29
				LEMHI COUNTY					
15N 22E 30BBC1	08-01-00	5.6	4.9	<.1	12.9	90	.12	<.010	.638
16N 25E 03DBA1	08-02-00	13.2	5.5	.1	23.0	259	.35	<.010	.656
17N 24E 14DBA1	08-02-00	37.2	11.4	.1	27.3	284	.39	<.010	.243
21N 22E 08CBB1	08-02-00	82.7	15.2	<.1	32.5	535	.73	<.010	1.54
21N 22E 15BAC2	08-02-00	46.6	16.6	.3	30.3	340	.46	<.010	.589
				LEWIS COUNTY					
33N 01E 13CAC1	07-26-00	30.8	18.3	.7	57.5	420	.57	<.010	18.1
34N 03W 04ABD1	07-27-00	3.8	1.5	.3	54.6	176	.24	<.010	.410
				NEZ PERCE COUNTY					
35N 01W 19AADC1	07-27-00	9.9	2.3	.5	50.6	220	.30	<.010	.055
35N 05W 25ADD1	07-26-00	51.9	23.5	.9	53.3	339	.46	<.010	4.95
36N 03W 07BDAD1	08-08-00	5.9	2.6	.4	34.2	208	.28	<.010	2.44
37N 03W 03ABB1	08-09-00	11.8	9.3	.3	41.5	270	.37	<.010	3.35
37N 05W 24AAA1	08-23-00	5.3	.8	.2	52.8	201	.27	<.010	<.050

WATER QUALITY DATA, JUNE TO SEPTEMBER 2000

LOCAL IDENTIFIER	DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)
ELMORE COUNTY									
04S 09E 03DCA1	08-25-00	<.020	.013	7.0	32	<1.0	30	2	<.7
05S 07E 16ABD1	08-24-00	.035	<.010	6.0	127	<1.0	100	134	<.7
05S 10E 30BDA1	09-06-00	<.020	.089	33.7	23	<1.0	20	96	4.2
06S 10E 31CCC1	09-06-00	2.20	<.010	E.7	63	<1.0	E10	116	<.7
06S 11E 06BBA1	09-06-00	<.020	.014	7.4	42	<1.0	<10	233	36.2
GEM COUNTY									
06N 01W 03CBB2	07-10-00	<.020	.336	10.5	26	<1.0	<10	<2	E.5
06N 01W 05CDD1	07-11-00	.049	.055	3.1	5	<1.0	180	58	E.4
06N 02W 13CAB1	07-10-00	<.020	.036	2.3	60	<1.0	390	366	E.4
07N 02W 30BCC1	07-17-00	<.020	.122	9.2	41	<1.0	<10	<2	<.7
07N 03W 24CBC1	07-10-00	.052	.033	2.4	128	<1.0	40	129	.9
07N 03W 28CDD1	07-11-00	<.020	.057	5.4	11	<1.0	<10	<2	E.4
IDAHO COUNTY									
31N 01E 08ABB3	08-01-00	<.020	.044	<.9	15	<1.0	380	44	<.7
31N 03E 36BCA1	08-02-00	.025	.025	<.9	62	<1.0	260	28	<.7
32N 01W 19DBC1	08-01-00	<.020	.049	<.9	28	<1.0	950	85	<.7
32N 03E 11DCC1	08-02-00	<.020	.034	<.9	76	<1.0	20	13	<.7
32N 05E 21BDA1	08-02-00	<.020	.038	E.5	E1	<1.0	<10	<2	1.0
33N 04E 14BAD1	08-02-00	<.020	.239	<.9	12	<1.0	<10	<2	E.5
KOOTENAI COUNTY									
47N 05W 24DDA1	08-30-00	<.020	.025	<.9	3	<1.0	<10	E2	<.7
48N 04W 20ACC1	08-30-00	<.020	.063	2.0	14	<1.0	<10	<2	<.7
50N 03W 06DAA1	07-18-00	<.020	.016	E.8	23	<1.0	<10	<2	<.7
51N 03W 19BAB1	08-16-00	<.020	<.010	<.9	6	<1.0	<10	<2	<.7
53N 03W 29CCC1	07-18-00	<.020	<.010	2.3	24	<1.0	<10	<2	<.7
53N 03W 30BAA1	07-20-00	<.020	<.010	E.7	20	<1.0	<10	<2	<.7
LATAH COUNTY									
38N 04W 04DDD1	08-09-00	<.020	.132	<.9	19	<1.0	<10	<2	<.7
38N 04W 31AAB1	08-09-00	<.020	.075	<.9	45	<1.0	500	66	<.7
38N 05W 10ABC1	08-23-00	<.020	.168	<.9	19	<1.0	<10	<2	E.5
38N 05W 28CBD1	08-24-00	<.020	.101	<.9	<1	<1.0	<10	E2	<.7
39N 03W 07DAC1	08-07-00	<.020	.104	<.9	13	<1.0	10	54	<.7
39N 05W 07BDA2	08-10-00	.194	.028	<.9	7	<1.0	490	62	<.7
41N 04W 06BAC1	08-10-00	.024	.023	<.9	3	<1.0	10	19	<.7
41N 05W 08BBC1	08-23-00	<.020	.066	<.9	11	<1.0	<10	<2	<.7
LEMHI COUNTY									
15N 22E 30BBC1	08-01-00	<.020	.011	<.9	129	<1.0	<10	<2	<.7
16N 25E 03DBA1	08-02-00	<.020	.101	6.6	125	<1.0	<10	<2	.8
17N 24E 14DBA1	08-02-00	<.020	.038	3.8	128	<1.0	E10	<2	.9
21N 22E 08CBB1	08-02-00	<.020	.174	9.8	36	<1.0	E10	<2	1.3
21N 22E 15BAC2	08-02-00	<.020	.107	3.1	128	<1.0	<10	E1	E.4
LEWIS COUNTY									
33N 01E 13CAC1	07-26-00	<.020	.038	E.5	12	<1.0	<10	<2	1.9
34N 03W 04ABD1	07-27-00	<.020	.039	E.6	4	<1.0	<10	<2	<.7
NEZ PERCE COUNTY									
35N 01W 19AADC1	07-27-00	<.020	.085	1.6	38	<1.0	E10	24	<.7
35N 05W 25ADD1	07-26-00	<.020	.020	1.8	63	<1.0	<10	E1	1.1
36N 03W 07BDAD1	08-08-00	<.020	.035	1.0	E1	<1.0	<10	<2	.7
37N 03W 03ABB1	08-09-00	<.020	.053	E.9	8	<1.0	<10	E2	E.5
37N 05W 24AAA1	08-23-00	<.020	.035	<.9	27	<1.0	100	60	<.7

E Positive detection but below stated detection limit.

WATER QUALITY DATA, JUNE TO SEPTEMBER 2000

LOCAL IDENTIFIER	STATION NUMBER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
				OWYHEE COUNTY					
02N 04W 04ADA1	433226116484201	08-10-00	1100	--	1190	7.5	30.0	24.2	.0
02S 02W 10AAA1	431616116330301	08-17-00	1305	--	1040	7.4	27.5	22.1	.0
03N 04W 29ADD1	433402116500001	08-10-00	1350	27.29	809	7.4	31.5	14.7	.5
03S 01W 15DCC2	430922116263402	08-18-00	1245	--	573	7.3	26.0	14.6	4.8
05S 02E 12BBD2	430035116101802	08-18-00	1530	--	791	7.6	30.0	16.2	7.1
05S 03E 22BBB2	425854116054101	08-23-00	1045	--	661	7.7	21.5	17.4	7.1
05S 05E 36DAD1	425636115475301	08-23-00	1650	--	1340	7.6	30.0	17.8	7.7
06S 03E 14CCB1	425350116043301	08-23-00	1310	123.00	1420	7.3	28.0	16.8	.0
				PAYETTE COUNTY					
06N 04W 28CDC1	434922116493301	07-19-00	1045	--	191	7.9	26.5	20.4	3.2
07N 04W 09ACB1	435749116491201	07-19-00	1305	--	693	7.5	27.5	15.0	3.8
08N 05W 36DCC1	435900116525601	07-11-00	1410	--	727	7.7	32.0	14.7	3.2
09N 05W 26CBB1	440517116544101	07-19-00	1510	63.69	1030	7.5	34.5	15.2	4.0
09N 05W 27DAA1	440519116544401	07-19-00	1630	--	616	7.3	32.0	15.9	4.0
				SHOSHONE COUNTY					
45N 03E 04DCC1	471607116045301	07-06-00	1145	9.49	104	6.3	13.0	8.4	3.5
48N 03E 13ACB1	473057116014401	06-27-00	1020	--	177	6.6	22.0	8.8	9.5
				VALLEY COUNTY					
13N 04E 16BBA1	442801115593901	08-04-00	1000	--	46	6.5	25.0	10.0	5.4
14N 03E 36ADA1	443039116015001	08-04-00	1125	--	188	7.2	27.0	20.1	.1
16N 03E 32DDB1	444032116064001	08-03-00	1435	--	134	6.9	31.0	11.5	.1
17N 03E 10AADD1	444947116040201	08-03-00	1555	--	45	5.9	32.0	10.0	.8
18N 03E 28ACD1	445208116053001	08-03-00	1215	--	137	7.2	28.5	9.2	8.8
				WASHINGTON COUNTY					
10N 05W 12BBD1	441316116531201	07-20-00	1330	--	302	7.0	34.0	16.7	.4
11N 05W 03DCCC1	441841116551801	07-20-00	1520	12.00	1320	7.1	34.5	14.9	2.8
11N 05W 29CBB1	441534116582101	08-09-00	1040	39.74	836	7.5	27.0	15.0	5.3
12N 03W 01DCD2	442353116382001	07-31-00	1330	--	251	8.5	35.5	15.2	.3
12N 05W 24DCD1	442121116524101	08-08-00	1410	--	502	7.4	34.0	15.5	.9
14N 02W 06DCC1	443422116372401	08-08-00	1130	--	262	8.5	38.0	17.1	.4

WATER QUALITY DATA, JUNE TO SEPTEMBER 2000

LOCAL IDENTIFIER	DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
OWYHEE COUNTY										
02N 04W 04ADA1	08-10-00	<1	260	64.9	23.0	162	12.8	560	0	461
02S 02W 10AAA1	08-17-00	<1	300	107	8.63	97.6	20.0	280	0	227
03N 04W 29ADD1	08-10-00	<1	260	62.6	25.2	68.8	10.6	390	0	318
03S 01W 15DCC2	08-18-00	<1	260	88.2	8.60	20.2	2.3	240	0	198
05S 02E 12BBD2	08-18-00	<1	220	46.1	24.3	89.4	8.5	320	0	265
05S 03E 22BBB2	08-23-00	<1	190	41.5	21.9	56.8	9.0	240	0	194
05S 05E 36DAD1	08-23-00	<1	470	117	41.9	83.2	28.5	250	0	203
06S 03E 14CCB1	08-23-00	<1	510	171	20.8	119	5.6	230	0	190
PAYETTE COUNTY										
06N 04W 28CDC1	07-19-00	K5	67	19.7	4.43	13.4	2.9	100	0	82
07N 04W 09ACB1	07-19-00	<1	250	67.4	20.0	57.7	4.5	360	0	298
08N 05W 36DCC1	07-11-00	<1	260	55.2	29.6	57.0	2.0	360	0	295
09N 05W 26CBB1	07-19-00	<1	350	97.3	26.4	106	4.0	520	0	431
09N 05W 27DAA1	07-19-00	<1	260	69.4	20.1	35.6	3.2	340	0	277
SHOSHONE COUNTY										
45N 03E 04DCC1	07-06-00	<1	46	13.8	2.82	2.8	1.0	51	0	42
48N 03E 13ACB1	06-27-00	<1	79	22.2	5.81	2.3	.8	68	0	55
VALLEY COUNTY										
13N 04E 16BBA1	08-04-00	<1	11	2.88	.87	5.6	6.9	26	0	21
14N 03E 36ADA1	08-04-00	<1	15	4.13	1.01	39.1	8.2	94	0	77
16N 03E 32DDB1	08-03-00	<1	23	6.02	1.81	19.2	4.5	80	0	66
17N 03E 10AADD1	08-03-00	<1	16	5.12	.80	2.5	2.0	24	0	20
18N 03E 28ACD1	08-03-00	<1	51	13.7	4.15	5.4	2.5	54	0	44
WASHINGTON COUNTY										
10N 05W 12BBD1	07-20-00	<1	100	29.0	6.85	17.9	3.2	95	0	78
11N 05W 03DCCC1	07-20-00	<1	380	110	26.4	150	1.6	520	0	425
11N 05W 29CBB1	08-09-00	<1	260	77.8	15.0	76.2	9.3	350	0	288
12N 03W 01DCD2	07-31-00	<1	36	7.88	4.01	29.7	17.1	150	0	122
12N 05W 24DCD1	08-08-00	<1	54	17.7	2.36	77.0	5.8	180	0	149
14N 02W 06DCC1	08-08-00	<1	29	9.89	1.05	42.4	8.1	140	4	123

K Results based on counts outside ideal colony range.

WATER QUALITY DATA, JUNE TO SEPTEMBER 2000

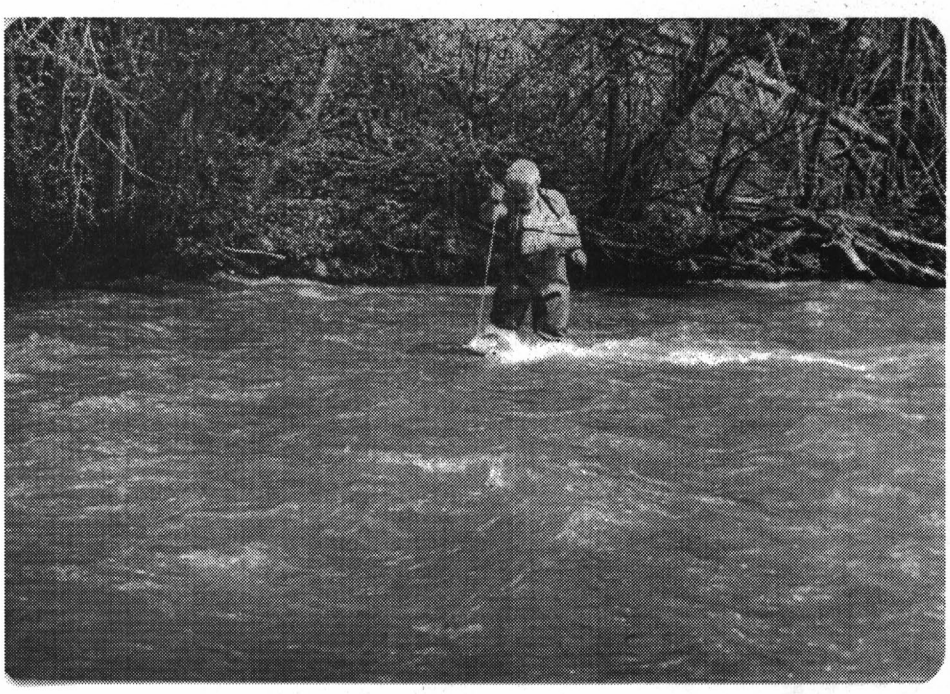
LOCAL IDENTIFIER	DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
				OWYHEE COUNTY					
02N 04W 04ADA1	08-10-00	88.6	50.2	1.5	68.0	765	1.04	.198	2.51
02S 02W 10AAA1	08-17-00	293	10.3	.6	75.0	752	1.02	<.010	.524
03N 04W 29ADD1	08-10-00	44.2	24.6	.9	54.6	503	.68	.015	4.18
03S 01W 15DCC2	08-18-00	57.5	16.3	.1	31.2	358	.49	<.010	3.36
05S 02E 12BBD2	08-18-00	74.2	29.6	.6	57.2	521	.71	<.010	7.08
05S 03E 22BBB2	08-23-00	76.5	32.7	.8	47.3	419	.57	<.010	3.67
05S 05E 36DAD1	08-23-00	323	74.1	.7	63.6	929	1.26	<.010	16.9
06S 03E 14CCB1	08-23-00	530	48.2	.6	41.5	1050	1.43	<.010	.494
				PAYETTE COUNTY					
06N 04W 28CDC1	07-19-00	9.1	3.8	.3	51.9	157	.21	<.010	.403
07N 04W 09ACB1	07-19-00	37.9	13.3	.4	55.2	456	.62	<.010	4.65
08N 05W 36DCC1	07-11-00	44.8	12.7	.6	62.8	483	.66	<.010	9.43
09N 05W 26CBB1	07-19-00	98.4	17.9	.3	37.6	658	.89	<.010	2.65
09N 05W 27DAA1	07-19-00	24.8	8.9	.2	43.8	391	.53	<.010	4.41
				SHOSHONE COUNTY					
45N 03E 04DCC1	07-06-00	1.0	1.5	<.1	14.8	63	.09	<.010	.108
48N 03E 13ACB1	06-27-00	23.1	2.3	<.1	11.4	103	.14	<.010	.498
				VALLEY COUNTY					
13N 04E 16BBA1	08-04-00	.6	.4	.1	49.0	81	.11	<.010	.401
14N 03E 36ADA1	08-04-00	1.0	9.3	2.3	62.2	175	.24	<.010	<.050
16N 03E 32DDB1	08-03-00	<.3	.9	.8	58.6	--	--	<.010	<.050
17N 03E 10AADD1	08-03-00	.4	.4	<.1	20.6	45	.06	<.010	.142
18N 03E 28ACD1	08-03-00	2.9	3.8	<.1	47.2	120	.16	<.010	3.17
				WASHINGTON COUNTY					
10N 05W 12BBD1	07-20-00	53.5	9.1	.3	51.0	219	.30	<.010	<.050
11N 05W 03DCCC1	07-20-00	114	49.1	.5	59.0	882	1.20	<.010	26.0
11N 05W 29CBB1	08-09-00	70.4	23.4	.4	57.6	557	.76	<.010	12.3
12N 03W 01DCD2	07-31-00	3.8	2.8	.2	45.9	186	.25	<.010	<.050
12N 05W 24DCD1	08-08-00	87.3	4.6	.3	30.9	319	.43	<.010	<.050
14N 02W 06DCC1	08-08-00	9.1	2.5	.4	66.4	214	.29	<.010	<.050

WATER QUALITY DATA, JUNE TO SEPTEMBER 2000

LOCAL IDENTIFIER	DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)
				OWYHEE COUNTY					
02N 04W 04ADA1	08-10-00	2.90	.750	4.2	85	<1.0	40	25	1.6
02S 02W 10AAA1	08-17-00	1.41	<.010	5.2	58	<1.0	110	364	1.0
03N 04W 29ADD1	08-10-00	1.31	.076	7.5	81	<1.0	30	22	E.6
03S 01W 15DCC2	08-18-00	<.020	.025	E.8	59	<1.0	<10	<2	1.2
05S 02E 12BBD2	08-18-00	<.020	.036	24.0	35	<1.0	<10	<2	7.2
05S 03E 22BBB2	08-23-00	<.020	.020	16.4	71	<1.0	<10	<2	4.0
05S 05E 36DAD1	08-23-00	<.020	.020	126	22	<1.0	20	4	7.8
06S 03E 14CCB1	08-23-00	.208	<.010	15.0	38	<1.0	30	432	E.6
				PAYETTE COUNTY					
06N 04W 28CDC1	07-19-00	<.020	.021	11.0	21	<1.0	<10	E2	1.3
07N 04W 09ACB1	07-19-00	<.020	.110	12.5	92	<1.0	<10	<2	.9
08N 05W 36DCC1	07-11-00	<.020	.051	32.2	43	<1.0	<10	<2	2.1
09N 05W 26CBB1	07-19-00	<.020	.043	3.2	34	<1.0	30	21	1.6
09N 05W 27DAA1	07-19-00	<.020	.060	3.2	7	<1.0	<10	<2	<.7
				SHOSHONE COUNTY					
45N 03E 04DCC1	07-06-00	<.020	<.010	<.9	12	<1.0	<10	E2	<.7
48N 03E 13ACB1	06-27-00	<.020	<.010	<.9	53	3.8	50	3	<.7
				VALLEY COUNTY					
13N 04E 16BBA1	08-04-00	<.020	.071	E.6	34	<1.0	E10	E2	<.7
14N 03E 36ADA1	08-04-00	.303	.396	<.9	55	<1.0	370	125	<.7
16N 03E 32DDB1	08-03-00	.224	.252	E.5	78	<1.0	440	84	<.7
17N 03E 10AADD1	08-03-00	<.020	.016	<.9	9	<1.0	30	E1	<.7
18N 03E 28ACD1	08-03-00	<.020	.056	<.9	9	<1.0	<10	E2	<.7
				WASHINGTON COUNTY					
10N 05W 12BBD1	07-20-00	.030	.015	7.3	21	<1.0	1800	201	<.7
11N 05W 03DCCC1	07-20-00	<.020	.140	181	11	<1.0	<10	<2	1.9
11N 05W 29CBB1	08-09-00	<.020	.098	20.4	113	<1.0	<10	<2	1.9
12N 03W 01DCD2	07-31-00	.203	.140	<.9	45	<1.0	20	41	<.7
12N 05W 24DCD1	08-08-00	2.39	.140	10.8	19	<1.0	510	256	<.7
14N 02W 06DCC1	08-08-00	.089	<.010	12.8	35	<1.0	20	15	<.7

E Positive detection but below stated detection limit.

INDEX



Collecting sediment samples at Germania Creek near Clayton, ID (May 22, 1980)

Access to USGS Water Data 34
Accuracy of field data and computed results 27
Acid neutralizing capacity, definition of 8
Acre-foot, definition of 8
Ada County, ground-water levels in 308
  quality of ground water in 361
Adams County, ground-water levels in 321
  quality of ground water in 361
Adenosine triphosphate, definition of 8
Algae, definition of 8
  blue-green, definition of 15
  green, definition of 15
  fire, definition of 15
Algal growth potential, definition of 8
Alkalinity, definition of 8
Analyses of samples collected at,
  Boise River basin sites 290
  Payette Lake sites 297
  Pend Oreille River basin sites 289
  Spokane River basin sites 280
  water-quality partial-record stations
    and miscellaneous sites 280
Annual Runoff, definition of 8
Annual 7-day minimum, definition of 11
Aquifer, definition of 8
Aquifer names 33
Aroclor, definition of 8
Arrangement of records, for surface-water quality 28
Artesian, definition of 8
Artificial substrate, definition of 17
Ash mass, definition of 10

Bacteria, definition of 8
Base flow, definition of 9
Bed load, sediment, definition of 16
Bed load discharge, sediment, definition of 16
Bed material, definition of 9
Bedload, definition of 9
Benewah County, quality of ground-water in 361
Benthic invertebrates, definition of 9
Big Jacks Creek near Bruneau 160
Biological data, definitions 9
Biomass, definition of 10
Blank samples, definition of 31
Blue-green algae, definition of 15
Boise County, ground-water levels in 323
  quality of ground water in 361
Boise River, at Glenwood Bridge near Boise 188
  below Diversion Dam near Boise 186
  diversions from, between gaging stations
    at Glenwood Bridge and near Parma 192
  diversions from, between gaging stations
    near Boise and at Glenwood Bridge 187
  near Boise 184
  near Middleton 191
  near Parma 193
  near Twin Springs 177
  South Channel at Eagle Road 190
  South Fork, at Anderson Ranch Dam 181
    near Featherville 180
Boise River basin, analyses of samples collected at
    water quality partial-record stations and
    miscellaneous sites in 290
  gaging-station records in 177
  reservoir in 183
  schematic diagram showing gaging stations in 170
Bonner County, ground-water levels in 324
  quality of ground water in 361
Bottom material, definition of 10
Boundary County, quality of ground water in 365
Boundary Creek near Porthill 57
Brownlee Reservoir at Brownlee Dam, Idaho-Oregon
    State Line 222
Bruneau River, near Hot Spring 157
  at Rowland, NV 153
Bruneau River basin, gaging-stations records in 153
Bruno Creek near Clayton 230

C.J. Strike Reservoir near Grand View 164
Canyon County, ground-water levels in 325
  quality of ground water in 365
Canyon Creek, above mouth at Wallace 92
  at Oregon Trail Crossing near Mountain Home 151
  at Woodland Park 91
  near Burke 90
Canyon Creek basin, gaging-station records in 151
Cells/volume, definition of 10
Cells volume (biovolume), definition of 10
Cfs-day, definition of 11
Change in National Trend Network Procedures 32
Chemical oxygen demand, definition of 11
Chlorophyll, definition of 11
Clark Fork, at Whitehorse Rapids, near Cabinet 67
  below Cabinet Gorge Dam near Cabinet 64
Classification of surface-water-quality records 28
Clearwater County, quality of ground water in 365
Clearwater River, at Orofino 257
  at Spalding 270
  near Peck 262
  North Fork, near Canyon Ranger Station 259
  South Fork, at Stites 255
Clearwater River basin, gaging-station records in 251
  reservoir in 261
  schematic diagram showing gaging stations in 248
Coeur d'Alene Lake at Coeur d'Alene 135
Coeur d'Alene Lake sites, analyses of
    samples collected at 280
Coeur d'Alene River, at Cataldo 123
  at Rose Lake 125
  near Harrison 127
  North Fork, at Enaville 84
    above Shoshone Creek, near Prichard 78
  South Fork, above Deadman Gulch near Mullan 88
    at Elizabeth Park, near Kellogg 102
    at Kellogg 104
    at Silverton 99
    at Smelterville 107
    near Pinehurst 118
Coliform bacteria, fecal, definition of 8
  total, definition of 9
Collection and computation of data,
  ground-water level records 33
  ground-water-quality records 34
  stage- and water-discharge records 23
  surface-water-quality records 28
Colloid, definition of 11
Color unit, definition of 11
Comparative reservoir storage data, table of 5
Concentration, mean, definition of 16
Confined aquifer, definition of 11
Contents, definition of 11
Continuous-record station, definition of 11
Control, definition of 11
Control structure, definition of 11
Cooperation 2
Cubic foot per second, definition of 11
Cubic foot per second-day, definition of 11
Cubic foot per second per square mile, definition of 8
Custer County, ground-water levels in 334
  quality of ground water in 365

Daily mean values, data table of, explanation of 25
Daily record, definition of 11
Daily record station, definition of 11
Data collection and computation of,
  ground-water level records 33
  ground-water-quality records 34
  stage- and water-discharge records 23
  surface-water-quality records 30
Data presentation of
  ground-water level records 33
  ground-water-quality records 34
  stage- and water-discharge records 24
  surface-water-quality records 28
Data table of daily mean values 25
Datum, definition of 11
Deadwood River below Deadwood Reservoir,
    near Lowman 201
Definition of terms 8
Diatoms, definition of 15
Diel, definition of 11
Discharge, at partial-record stations and miscellaneous sites 278
  definition of 11
  during 2000 water year compared with median
    discharge for period 1961-90 for two representative
    gaging stations, graph of 4
  instantaneous, definition of 11
  mean, definition of 11
  total, definition of 18
  total sediment, definition of 16
Discontinued
  Surface-Water Discharge or Stage-Only Stations xii

Discontinued
Surface-Water-Quality Stations xix
Dissolved, definition of 11
Dissolved solids concentration, definition of 12
Dissolved trace-element concentrations 32
Diversions from Boise River between gaging stations,
at Glenwood Bridge and near Parma 192
near Boise and at Glenwood Bridge 187
Diversions from Snake River between Snake River
at King Hill and Snake River below C.J. Strike Dam 150
Diversions from Snake River between Snake River
near Murphy and Snake River at Nyssa, OR 171
Diversity index, definition of 9
Downstream order and station number 20
Drainage area, definition of 12
Drainage basin, definition of 12
Dry mass, definition of 10
Dry weight, definition of 12
Dworshak Reservoir near Ahsahka 261

Enterococcus bacteria, definition of 8
EPT Index, definition of 9
Elmore County, ground-water levels in 335
quality of ground-water in 365
Escherichia coli, definition of 8
Estimated daily discharge, Identifying 27
Euglenoids, definition of 15
Explanation of, the records 23
ground-water levels 33
ground-water-quality records 34
stage- and water-discharge records 23
surface-water-quality records 28
Extractable organic halides, definition of 12

Fecal coliform bacteria, definition of 8
Fecal streptococcal bacteria, definition of 8
Field data and computed results, accuracy of 27
Fire algae, definition of 15
Flow-duration percentiles, definition of 12

Gage datum, definition of 12
Gage height, definition of 12
Gaging station, definition of 12
Gas chromatography/flame ionization
detector, definition of 12
Gem County, ground-water levels in 340
quality of ground water in 369
Gem Pumping Plant near Marsing 174
Grand View Irrigation District Canal near Grand View 162
Grand View Mutual Canal near Grand View 163
Green algae, definition of 15
Ground water,
quality of 361
Ground-water conditions, summary of 5
Ground-water level, definition of 12
Ground-water levels, records of 308
explanation of 33
Ground-water-quality records 361
explanation of 34
Ground-water-quality sites in Idaho, maps showing
locations of observation wells and 303
Government Gulch near mouth at Smelterville 106

Habitat quality index 9
Hangman Creek at Spokane, WA 147
Hardness of water, definition of 12
Hayden Lake at Hayden Lake 137
Hilsenhoff's biotic index (HBI), definition of 9
Hydrologic benchmark network, definition of 22
Hydrologic benchmar station, definition of 12
Hydrologic conditions, summary of 3
Hydrologic unit, definition of 12

Idaho County, quality of ground water in 369
Idaho well-numbering system 21
diagram showing 21
Identifying estimated daily discharges 27
Inches, definition of 8
Instantaneous discharge, definition of 11
Interval, open or screened, definition of 13
Introduction 1

Jarbidge River below Jarbidge 155
Johnson Creek at Yellow Pine 241
King Hill Irrigation District Pumping Plant,
at King Hill 150
Kootenai County, ground-water levels in 343
quality of ground water in 369
Kootenai River, at Bonners Ferry 54
at Klockmann Ranch, near Bonners Ferry 55
at Leonia 50
at Porthill 58
Kootenai River basin, gaging-station records in 47
reservoir in 62
schematic diagram showing gaging stations in 45
Kootenay Lake at Kuskonook, British Columbia 62

Laboratory measurements 30
Lake Fork Payette River above Jumbo Creek near McCall 209
Lakes and Reservoirs:
Brownlee Reservoir at Brownlee Dam, Idaho-Oregon
State Line 222
C.J. Strike Reservoir near Grand View 164
Coeur d'Alene Lake at Coeur d'Alene 135
Dworshak Reservoir near Ahsahka 261
Hayden Lake at Hayden Lake 137
Lakes and Reservoirs:--Continued
Kootenay Lake at Kuskonook, British Columbia 62
Lucky Peak Lake near Boise 183
Payette Lake at McCall 206
Lake Pend Oreille near Hope 69
Priest Lake at Outlet, near Coolin 70
Land-surface datum, definition of 12
Lapwai Creek near Lapwai 266
Latah County, ground-water levels in 345
quality of ground water in 369
Lemhi County, ground-water levels in 347
quality of ground water in 369
Lemhi River, near Lemhi 234
below L5 diversion 235
Lewis County, ground-water levels in 349
quality of ground water in 369
Light-attenuation coefficient, definition of 12
Lightning Creek at Clark Fork 68
Lipid, definition of 12
Little Salmon River at Riggins 243
Load, total sediment, definition of 16
Lochsa River near Lowell 254
Lolo Creek near Greer 256
Lucky Peak Lake near Boise 183

Macrophytes, definition of 13
McCalley Dam Outflow at Mountain Home AFB 152
Malheur River basin, gaging station records in 198
schematic diagram showing gaging stations in 170
Malheur River below Nevada Dam near Vale, OR 198
Manuscript, station, explanation of 24
Maps, explanation of 39
showing locations of observation wells and
ground-water-quality sites in Idaho 303
showing locations of surface-water and
water-quality stations 40
showing water-level changes in selected
observation wells 6
Mean concentration, definition of 16
of suspended sediment, definition of 16
Mean discharge, definition of 11
Measuring point, definition of 13
Measurements, Laboratory, ... 30
On-site and sample collection 28
Membrane filter, definition of 13
Metamorphic stage, definition of 13
Methylene blue active substances, definition of 13
Method detection limits, definition of 14
Micrograms per gram, definition of 13
Micrograms per kilogram, definition of 13
Micrograms per liter, definition of 13
Microsiemens per centimeter, definition of 13
Milligrams per liter, definition of 13
Miscellaneous site, definition of 13
Miscellaneous sites, Analyses of samples collected at
water-quality partial-record stations and 280
discharge at partial-record stations and 278
numbering system for wells and 20
Monthly mean data, statistics of, explanation of 25
Moon Creek above mouth at Elk Creek 101

Moose Creek at mouth near Moose Creek Ranger Station ... 252
Mores Creek above Robie Creek, near Arrowrock Dam ... 182
Most probable number, definition of ... 13
Moyie River at Eastport ... 52
Multiple-plate samplers, definition of ... 13

Nanograms per liter, definition of ... 13
Napias Creek below Arnett Creek, near Leesburg ... 236
National Atmospheric Deposition Program/National Trends Network (NADP/NTN), definition of ... 22
National Geodetic Vertical Datum of 1929, definition of ... 13
National Stream-quality Accounting Network, (NASQAN) definition of ... 22
National Trends Network procedures, change in ... 32
National Water-quality Assessment program, (NAWQA) definition of ... 22
Natural substrate, definition of ... 13
Nekton, definition of ... 13
Nephelometric turbidity unit, definition of ... 13
Nez Perce County, ground-water levels in ... 350
  quality of ground water in ... 369
Ninemile Creek, at Wallace ... 95
  East Fork, above mouth near Blackcloud ... 94
Numbering system for wells and miscellaneous sites ... 20
  diagram of ... 20

Observation wells and ground-water-quality sites, maps showing locations of ... 303
On-site measurements and sample collection ... 28
Open or screened interval, definition of ... 13
Organic carbon, definition of ... 13
Organic mass, definition of ... 10
Organism, definition of ... 13
Organism count/area, definition of ... 13
Organism count/volume, definition of ... 14
Organism count, total, definition of ... 14
Organochloride compounds, definition of ... 14
Other records available ... 27
Owyhee County, ground-water levels in ... 352
  quality of ground water in ... 373
Owyhee River, below Owyhee Dam, OR ... 176
  near Rome, OR ... 175
Owyhee River basin, gaging-station records in ... 175
  schematic diagram showing gaging stations in ... 170

Pahsimeroi River at Ellis ... 232
Palouse River near Potlatch ... 273
Palouse River basin, gaging-station records in ... 273
  schematic diagram showing gaging stations in ... 248
Paradise Creek at University of Idaho at Moscow ... 277
Parameter code, definition of ... 14
Partial-record station, definition of ... 14
Partial-record stations and miscellaneous sites, analyses of samples collected at water quality ... 280
  discharge at ... 278
Particle size, definition of ... 14
  classification, definition of ... 14
Payette County, ground-water levels in ... 358
  quality of ground water in ... 373
Payette Lake sites, analyses of samples collected at ... 297
Payette Lake at McCall ... 206
Payette River, Lake Fork, above Jumbo Creek, near McCall ... 209
  Middle Fork, near Crouch ... 203
  near Emmett ... 213
  near Horseshoe Bend ... 212
  near Letha ... 214
  near Payette ... 215
  North Fork, at Cascade ... 210
    at McCall ... 207
    below Fisher Creek near McCall ... 204
    near Banks ... 211
  South Fork, at Lowman ... 200
Payette River basin, gaging-station records in ... 200
  reservoir in ... 206
  schematic diagram showing gaging stations in ... 199
Percent composition, definition of ... 14
Percent fines, definition of ... 9
Percent of total, definition of ... 14
Percent shading, definition of ... 9
Pend Oreille, Lake, near Hope, ... 69
Pend Oreille River at Newport, WA ... 76
Pend Oreille River basin, analyses of samples collected at water quality partial-record stations and miscellaneous sites in ... 289
  gaging-station records in ... 64
  reservoirs in ... 69, 70
  schematic diagram showing gaging stations in ... 63
Periodic station, definition of ... 14
Periphyton, definition of ... 14
Pesticides, definition of ... 14
pH of water, definition of ... 14
Phytoplankton, definition of ... 15
Picocurie, definition of ... 14
Pine Creek below Amy Gulch near Pinehurst ... 114
  EF above Gilbert Creek near Pinehurst ... 109
  EF above Nabob Creek near Pinehurst ... 111
Piscivore, definition of ... 10
Placer Creek at Wallace ... 97
Plankton, definition of ... 15
Polychlorinated biphenyls, definition of ... 15
Polychlorinated naphthalenes, definition of ... 15
Preface ... iii
Prichard Creek near Prichard ... 81
Priest Lake at Outlet, near Coolin ... 70
Priest River, near Coolin ... 71
  near Priest River ... 72
Primary productivity, methods, definition of ... 15
Programs, special networks and ... 22
Publications on Techniques of Water-Resources Investigations ... 35

Quality of ground water ... 361

Radioisotopes, definition of ... 15
Records, explanation of the ... 23
  explanation of, ground-water level ... 33
    ground-water-quality ... 34
    stage- and water-discharge ... 23
    surface-water-quality ... 28
  ground-water level ... 308-360
  ground-water-quality ... 361
  other available ... 27
  surface water ... 47
Recoverable from bottom material, definition of ... 10
Recurrence interval, definition of ... 16
Remark codes for surface-water-quality records ... 31
Replicate samples, definition of ... 16
  explanation of ... 32
Reservoirs. See Lakes and Reservoirs.
Return period. See Recurrence interval.
Reynolds Irrigation District Pumping Plant near Walters Ferry ... 172
River mile, definition of ... 16
River mileage, definition of ... 16
Runoff, annual, definition of ... 8
Runoff in inches, definition of ... 16

St. Joe River, at Calder ... 130
  at Red Ives Ranger Station ... 129
St. Maries River near Santa ... 133
Salmon River, at Salmon ... 233
  at White Bird ... 244
  below Yankee Fork near Clayton ... 226
  Little, at Riggins ... 243
  Middle Fork, at Middle Fork Lodge near Yellow Pine ... 237
    at mouth near Shoup ... 239
  South Fork, at mouth near Mackay Bar ... 242
    near Krassel Ranger Station ... 240
Salmon River basin, discharge at partial-record stations and miscellaneous sites in ... 279
  gaging-station records in ... 225
  schematic diagram showing gaging stations in ... 221
Sample collection, on-site measurement and ... 28
Sea level, definition of ... 16
Sediment, definition of ... 16
  bedload, definition of ... 16
  bed-load discharge, definition of ... 16
  records, explanation of ... 29
  suspended-, definition of ... 16
    concentration, definition of ... 16
    discharge, definition of ... 16
    load, definition of ... 16
Selway River, above Moose Creek near Moose Creek Ranger Station ... 251

Selway River, above Moose Creek near Moose Creek Ranger Station ... 251
near Lowell ... 253
Seven-day 10-year low flow, definition of ... 17
Shannon Index (Diversity Index) definition of ... 9
Shoshone County, quality of ground water in ... 373
Snake River, at Hells Canyon Dam, Idaho-Oregon State Line ... 223
at Johnson Bar, Idaho-Oregon State Line ... 224
at Nyssa ... 194
at Weiser ... 220
below C.J. Strike Dam, near Grand View ... 165
Diversions between Snake River at King Hill and Snake River below C.J. Strike Dam ... 150
Diversions between Snake River near Murphy and Snake River at Nyssa, OR ... 171
near Anatone, WA ... 249
near Murphy ... 166
Snake River basin, gaging-station records in ... 150
reservoirs in ... 164, 222
schematic showing gaging stations in ... 149, 170, 119, 221
Snake River Irrigation District Canal near Grand View ... 161
Snake River main stem, gaging-station records in ... 150
reservoirs in ... 164, 222
Sodium-adsorption ratio, definition of ... 17
Solute, definition of ... 17
Special networks and programs ... 22
Specific conductance, definition of ... 17
Spike samples, definition of ... 32
Spokane River above Liberty Bridge near Otis Orchard, WA ... 141
at Greenacres, WA ... 143
at Long Lake, WA ... 148
at Spokane, WA ... 146
at Sullivan Road bridge near Trentwood, WA ... 144
below Green Street at Spokane, WA ... 145
near Post Falls ... 138
Spokane River basin, analyses of samples collected at water quality partial-record stations and miscellaneous sites in ... 280
gaging-station records in ... 78
reservoirs in ... 137, 138
schematic diagram showing gaging stations in ... 77
Squaw Creek below Bruno Creek near Clayton ... 231
Stable isotope ratio, definition of ... 17
Stage: -- see Gage height
Stage-discharge relation, definition of ... 17
Stage- and water-discharge records, explanation of ... 23
Station manuscript, explanation of ... 24
Station number, downstream order and ... 20
Station records, ground water ... 308
surface water ... 47
Statistics of monthly mean data, definition of ... 25
Statistics, summary, definition of ... 25
Streamflow, definition of ... 17
Streamflow and reservoir conditions, summary of ... 3
Substrate, definition of ... 17
artificial, definition of ... 17
natural, definition of ... 17
Substrate embeddedness class, definition of ... 9
Summary of Ground-water Conditions ... 5
Summary of Hydrologic Conditions ... 3
Summary of Streamflow and Reservoir Conditions ... 3
Summary of Water-quality Conditions ... 7
Summary statistics, definition of ... 25
Surface area, definition of ... 17
Surface-water quality records, explanation of ... 28
Surface-water and water-quality stations in Idaho, maps showing location of ... 39
Surface-water discharge or stage-only stations, discontinued ... xii
Surface-water-quality stations, discontinued ... xix
Surface water, station records ... 47
Surficial bed material, definition of ... 17
Suspended, definition of ... 17
Suspended, recoverable, definition of ... 17
total, definition of ... 17
Suspended sediment, definition of ... 16
Suspended-sediment concentration, definition of ... 16
mean, definition of ... 16
Suspended-sediment discharge, definition of ... 16
Suspended-sediment load, definition of ... 16
Swan Falls Irrigation District Canal near Murphy ... 171
Synoptic studies, definition of ... 18
System for numbering wells and miscellaneous sites, explanation of ... 20
diagram showing ... 21

Taxa richness, definition of ... 9
Taxonomy, definition of ... 18
Techniques of Water-Resources Investigations, Publications on ... 35
Temperature, preferences, definitions of ... 9
Temperature, water, definition of ... 29
Terms, definition of ... 8
Thermograph, definition of ... 18
Thompson Creek near Clayton ... 229
Time-weighted average, definition of ... 18
Tons, per acre-foot, definition of ... 18
per day, definition of ... 18
Total, definition of ... 18
Total coliform bacteria, definition of ... 8
Total discharge, definition of ... 18
Total in bottom material, definition of ... 10
Total length, definition of ... 18
Total load, definition of ... 18
Total organism count, definition of ... 14
Total, recoverable, definition of ... 18
Total sediment discharge, definition of ... 16
Total sediment load, definition of ... 16
Trace-element concentrations, dissolved, definition of ... 32
Tributaries between Boise River gaging stations at Glenwood bridge and near Parma, Analyses of samples collected at water quality partial-record stations and miscellaneous sites ... 290
Trophic group, definition of ... 9
Turbidity, definition of ... 18

Valley Creek at Stanley ... 225
Valley County, ground-water levels in ... 359
quality of ground water in ... 373
Volatile organic conpounds (VOCs), definition of ... 18

WDR, definition of ... 19
WSP, definition of ... 19
Washington County, ground-water levels in ... 360
quality of ground water in ... 373
Water data, Access to USGS ... 34
Water level, definition of ... 18
Water-level changes in selected observation wells, map showing ... 6
Water-quality Conditions, Summary of ... 7
Water quality-control data ... 31
Water-quality records, explanation of, ground-water ... 34
surface-water ... 28
Water-quality stations in Idaho, maps showing location of surface-water and ... 40
Water-quality-control data, explanation of ... 31
Water-Resources Investigations, Publications on Techniques of ... 35
Water table, definition of ... 19
aquifer, definition of ... 19
Water temperature, explanation of ... 29
Water year, definition of ... 19
Weighted average, definition of ... 19
Well, definition of ... 19
Well-numbering system, Idaho ... 20
diagram showing ... 20
Wells and miscellaneous sites, numbering system for ... 20
Weiser River, near Cambridge ... 216
near Weiser ... 217
Weiser River basin, gaging-station records in ... 216
schematic diagram showing gaging station in ... 199
West End Project Canal near Melba ... 173
Wet mass, definition of ... 10
Wet weight, definition of ... 19

Yaak River near Troy, MT ... 47

Zooplankton, definition of ... 15

☆U.S. GOVERNMENT PRINTING OFFICE:2001-646-059/01026

CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
acre	4.047×10^{3}	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi^2)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^{3}	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft^3)	2.832×10^{1}	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^{3}	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second
	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
230 Collins Road
Boise ID 83702

Printed on recycled paper