Compilation of Records of Surface Waters of the United States through September 1950

Part 13. Snake River Basin

Prepared under the direction of J. V. B. WELLS, *Chief, Surface Water Branch*

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PREFACE

This report contains summaries of streamflow records in the Snake River basin. It was prepared by the United States Geological Survey in the Water Resources Division, C. G. Paulsen, chief, under the general direction of J. V. B. Wells, chief, Surface Water Branch, and B. J. Peterson, chief, Annual Reports Section.

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A, Coastal basins (excluding Central Valley).
B, Central Valley.
12. Pacific slope basins in Washington and upper Columbia River basin.
13. Snake River basin.
14. Pacific slope basins in Oregon and lower Columbia River basin.

Early records of the flow of streams in the United States are published in the reports listed below. In many of these reports records for years earlier than those indicated have been included for some streams.

Streamflow data for the years 1884–1901 in reports of the Geological Survey

(A = Annual Report; B = Bulletin; W = Water-Supply Paper)

Report	Character of data	Year
10th A, pt. 2	Descriptive information only.	
11th A, pt. 2	Monthly discharge and descriptive information	1884 to September 1890.
12th A, pt. 2	do	1884 to June 30, 1891.
13th A, pt. 3	do	1884–92.
14th A, pt. 2	Monthly discharge	1888–93.
B 131	Descriptions, measurements, gage heights, and ratings.	1893–94.
16th A, pt. 2	Descriptive information only.	
B 140	Descriptions, measurements, gage heights, ratings, and monthly discharge.	1895.
W 11	Gage heights	1896.
18th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge.	1895–96.
W 15	Descriptions, measurements, and gage heights of streams east of the Mississippi River, and Missouri River and tributaries above Kansas River.	1897.
W 16	Descriptions, measurements, and gage heights of streams west of the Mississippi River, except Missouri River and tributaries above Kansas River.	1897.
19th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge.	1897.
W 27	Measurements, ratings, and gage heights of streams east of the Mississippi River, and Missouri River and tributaries.	1898.
W 28	Measurements, ratings, and gage heights of streams west of the Mississippi River, except Missouri River and tributaries.	1898.
20th A, pt. 4	Monthly discharge	1898.
W 35 to 39	Descriptions, measurements, gage heights, and ratings.	1899.
21st A, pt. 4	Monthly discharge	1899.
W 47 to 52	Descriptions, measurements, gage heights, and ratings.	1900.
22d A, pt. 4.	Monthly discharge	1900.
W 65, 66	Descriptions, measurements, gage heights, and ratings.	1901.
W 75	Monthly discharge	1901.

Reports on surface-water supply containing records from 1899 to 1950 for drainage basins in this report are listed in the following

table. The data for any particular gaging station will, in general, be found in the reports covering the years during which the station was maintained.

Numbers of water-supply papers containing streamflow records in Snake River basin, 1899–1950

Year	W.S.P. no.	Year	W.S.P. no.	Year	W.S.P. no.	Year	W.S.P. no.	Year	W.S.P. no.
1899	38	1910	292	1921	533	1931	723	1941	933
1900	51	1911	312	1922	553	1932	738	1942	963
1901	66, 75	1912	332-B	1923	573	1933	753	1943	983
1902	85	1913	362-B	1924	593	1934	768	1944	1013
1903	100	1914	393	1925	613	1935	793	1945	1043
1904	135	1915	413	1926	633	1936	813	1946	1063
1905	178	1916	443	1927	653	1937	833	1947	1093
1906	214	1917	463	1928	673	1938	863	1948	1123
1907-8	252	1918	483	1929	693	1939	883	1949	1153
1909	272	1919-20	513	1930	708	1940	903	1950	1183

The records at most of the stations discussed in these reports extend over many years. Miscellaneous measurements at many points other than regular gaging stations have been made each year and are published under "Miscellaneous discharge measurements" at the end of each report.

Reports also have been published that are compilations of records for various areas, usually a single State or drainage basin. These reports contain records previously published (some of which may have been revised), as well as some records not contained in the present series of reports. Such reports for the area covered by this report are as follows:

Water-Supply Paper	*Title*
370	Surface water supply of Oregon, 1878–1910.
469	Surface waters of Wyoming and their utilization, 1894–1921.
492	Summary of hydrometric data in Washington, 1878–1919.
870	Summary of records of surface water in Washington, 1919–1935.

Records of discharge have been published also in State reports. Some of these are not contained in the publications of the Geological Survey or are revisions of records previously published in its water-supply papers. The following table contains a list of these reports for the area covered by this report.

BAR CHART

The following bar chart shows the period of record of discharge of streams and contents of reservoirs for all stations compiled in this report through September 30, 1950. Periods of record of stage only are not included. The stations are listed in downstream order (see p. 3) and are numbered consecutively. The number ie used to identify the station on the map (pl. 1) showing location of gaging stations.

Bar chart of gaging-station records

Legend: Streamflow Reservoir contents

Period of record (1900, 1910, 1920, 1930, 1940, 1950)	Gaging station	Map no.	Page no.
	Snake River at south boundary of Yellowstone National Park, Wyo.	1	24
	Jackson Lake at Moran, Wyo.	2	25
	Snake River at Moran, Wyo.	3	26
	Tributaries between gaging stations at Moran and near Alpine, Wyo.:		
	..Pacific Creek near Moran, Wyo.	4	28
	..Buffalo Fork near Moran, Wyo.	5	29
	..Spread Creek near Elk, Wyo.	6	30
	..Spring Creek near Teton, Wyo.	7	30
	..Cottonwood Creek near Teton, Wyo.	8	30
	..Spring Creek near Zenith, Wyo.	9	31
	..Gros Ventre River at Kelly, Wyo.	10	31
	..Gros Ventre River at Zenith, Wyo.	11	32
	..Spring Creek at Zenith, Wyo.	12	32
	..Spring Creek at West Gros Ventre Butte, Wyo.	13	32
	..Fish Creek near Wilson, Wyo.	14	33
	..Mosquito Creek near Wilson, Wyo.	15	33
	..Big Spring Creek near Cheney, Wyo.	16	33
	..Flat Creek near Jackson, Wyo.	17	34
	..Flat Creek near Cheney, Wyo.	18	34
	..Horse Creek near Cheney, Wyo.	19	35
	..Hoback River near Jackson, Wyo.	20	35
	..Fall Creek near Cheney, Wyo.	21	36
	..Dog Creek near Cheney, Wyo.	22	36
	..Cabin Creek near Cheney, Wyo.	23	37
	..Bailey Creek near Alpine, Idaho	24	37
	..Wolf Creek near Alpine, Idaho	25	37
	Snake River above Greys River, near Alpine, Wyo.	26	38
	Greys River basin:		
	..Greys River near Alpine, Wyo. (Idaho)	27	38
	Snake River below Greys River, at Alpine, Idaho	28	39
	Salt River basin:		
	..Salt River near Smoot, Wyo.	29	40
	....Cottonwood Creek near Smoot, Wyo.	30	41
	....Swift Creek near Afton, Wyo.	31	42
	....Crow Creek near Fairview, Wyo.	32	43
	....Stump Creek near Auburn, Wyo.	33	43
	..Salt River near Thayne, Wyo.	34	44
	....Strawberry Creek near Bedford, Wyo.	35	44
	..Salt River near Alpine, Idaho	36	45
	..Salt River at Wyoming-Idaho State line	37	46
	Snake River near Alpine, Wyo. (Idaho)	38	47
	Tributaries between gaging stations near Alpine and at Calamity Point, Idaho:		
	..McCoy Creek near Alpine, Wyo. (Idaho)	39	47
	..Indian Creek near Blowout, Idaho	40	48
	..Elk Creek near Irwin, Idaho	41	48
	..Little Elk Creek near Blowout, Idaho	42	49
	Snake River at Calamity Point, near Irwin, Idaho	43	49
	Bear Creek basin:		
	Bear Creek near Irwin, Idaho	44	50
	Snake River near Irwin, Idaho	45	50
	Palisade Creek basin:		
	Palisade Creek:		
	....Palisade Canal near Irwin, Idaho	46	51
	..Palisade Creek near Irwin, Idaho	47	51
	Fall Creek basin:		
	..Fall Creek near Swan Valley, Idaho	48	52
	Rainy Creek basin:		
	..Rainy Creek near Swan Valley, Idaho	49	53
	Snake River near Swan Valley, Idaho	50	54
	Pine Creek basin:		
	..Pine Creek near Swan Valley, Idaho	51	55
	Snake River at Dry Canyon, near Swan Valley, Idaho	52	55
	Burns Creek basin:		
	..Burns Creek near Chokecherry, Idaho	53	56

Bar chart of gaging-station records--Continued

Period of record (1900, 1910, 1920, 1930, 1940, 1950)	Gaging station	Map no.	Page no.
	Snake River--Continued		
	Snake River below Burns Creek, near Chokecherry, Idaho	54	56
	Snake River near Heise, Idaho	55	57
	Diversion between gaging etations near Heise and Lorenzo:		
	..Great Feeder Canal near Ririe, Idaho	56	59
	Snake River at Lorenzo, Idaho	57	59
	Henrys Fork baein:		
	..Henrys Lake near Lake, Idaho	58	60
	..Henrys Fork near Lake, Idaho	59	61
	..Henrys Fork near Big Springs, Idaho	60	63
	....Big Springs Creek at Big Springs, Idaho	61	63
	..Henrys Fork at Coffee Pot Rapids, near Island Park, Idaho	62	63
	....Sheridan Creek near Island Park, Idaho	63	64
	..Island Park Reservoir near Island Park, Idaho	64	65
	..Henrys Fork near Island Park, Idaho	65	65
	....Buffalo River near Island Park, Idaho	66	67
	..Henrys Fork at De Winers Ranch, near Island Park, Idaho	67	67
	..Henrys Fork at Warm River, Idaho	68	68
	....Warm River at Warm River, Idaho	69	70
	Robinson Creek:		
	.....Wyoming Creek near Squirrel, Idaho	70	71
	.....Robinson Creek at Warm River, Idaho	71	72
1890-91	..Henrye Fork near Ashton, Idaho	72	73
	Fall River:		
	.....Grassy Lake near Moran, Wyo.	73	75
	.....Diversions from Fall River above gaging station near Squirrel, Idaho	74	76
	....Fall River near Squirrel, Idaho	75	77
	Conant Creek:		
	.....Squirrel Creek near Squirrel, Idaho	76	79
1890-92	....Fall River in Canyon, Idaho	77	79
	.....Diversions from Fall River between Squirrel and Chester gaging stations, Idaho	78	80
	....Fall River near Chester, Idaho	79	81
	....Diversions from Henrys Fork between Ashton and St. Anthony gaging stations, Idano	80	83
	..Henrys Fork at St. Anthony, Idaho	81	84
	....Teton River near Victor, Idaho	82	86
	.....Teton Creek near Driggs, Idaho	83	87
	....Teton River near Driggs, Idaho	84	87
	.....Horseshoe Creek near Driggs, Idaho	85	88
	.....Packsaddle Creek near Tetonia, Idaho	86	89
	.....Spring Creek near Tetonia, Idaho	87	89
	....Teton River near Tetonia, Idaho	88	90
	.....Canyon Creek near Newdale, Idaho	89	91
1890-93	....Teton River near St. Anthony, Idaho	90	92
	.....Diversions from Teton River between St. Anthony gaging station and mouth, Idaho	91	94
	....Diversions from Henrys Fork between St. Anthony and Rexburg gaging stations, Idaho	92	95
	..Henrys Fork near Rexburg, Idaho	93	97
	Snake River near Menan, Idaho	94	99
	Willow Creek basin:		
	Willow Creek:		
	....Grays Lake Outlet near Herman, Idaho	95	99
	..Willow Creek near Ririe, Idaho	96	100
1889-95	Snake River at Idaho Falls, Idaho	97	101
	..Diversions from Snake River between Heise and Shelley gaging stations, Idaho	98	102
	Snake River near Shelley, Idaho	99	103
	Diversion between gaging stations near Shelley and at Firth:		
	..Idaho (Government) Canal near Shelley, Idaho	100	105
	..Idaho (Government) Canal near Firth, Idaho	101	106
	Snake River at Firth, Idaho	102	107
	Snake River at Porterville Bridge, near Blackfoot, Idaho.	103	107
	Snake River below Blackfoot Bridge, near Blackfoot, Idaho	104	108
	Blackfoot River basin:		
	..Blackfoot River above reservoir, near Henry, Idaho	105	109
	....Little Blackfoot River at Henry, Idaho	106	110
	Meadow Creek:		
	.....Diversion from Grays Lake to Blackfoot Marsh Reservoir, Idaho	107	110
	....Meadow Creek near Henry, Idaho	108	111
	..Blackfoot Marsh Reservoir near Henry, Idaho	109	112
	..Blackfoot River near Henry, Idaho	110	113
	..Blackfoot River near Shelley, Idaho	111	114
	..Blackfoot River near Presto, Idaho	112	116
	....Sand Creek near Firth, Idaho	113	117
	....Fort Hall Upper Canal near Blackfoot, Idaho	114	117
	....Fort Hall Lower Canal near Blackfoot, Idaho	115	118

Bar chart of gaging-station records--Continued

Period of record (1900, 1910, 1920, 1930, 1940, 1950)	Gaging station	Map no.	Page no.
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	Blackfoot River basin--Continued		
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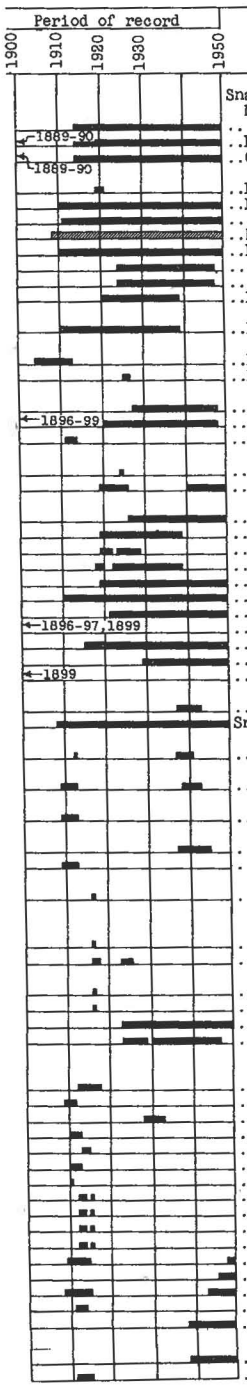
	..Diversions from Snake River between Shelley and Blackfoot gaging stations, Idaho	117	121
	Snake River near Blackfoot, Idaho	118	122
	Portneuf River basin:		
	..Portneuf River above reservoir near Chesterfield, Idaho	119	124
	....Portneuf diversion channel near Chesterfield, Idaho	120	125
	..Portneuf River below reservoir, near Chesterfield, Idaho	121	125
	....Topons Creek near Chesterfield, Idaho	122	126
	....Pebble Creek near Pebble, Idaho	123	126
	..Portneuf River near Pebble, Idaho	124	127
	..Portneuf River at Topaz, Idaho	125	127
←1896	..Portneuf River at McCammon, Idaho	126	129
	Marsh Creek:		
	.....Birch Creek near Downey, Idaho	127	130
	..Portneuf River at Pocatello, Idaho	128	131
1897-99	American Falls Reservoir at American Falls, Idaho	129	133
	Snake River at Neeley, Idaho	130	134
	Raft River basin:		
	..Raft River at Peterson Ranch, near Bridge, Idaho	131	136
	..Raft River near Bridge, Idaho	132	137
	....Clear Creek near Naf, Idaho	133	137
	....Cassia Creek near Conant, Idaho	134	138
	Lake Walcott near Minidoka, Idaho	135	139
	Diversions from Lake Walcott:		
	..North Side Minidoka Canal near Minidoka, Idaho	136	140
	..South Side Minidoka Canal near Minidoka, Idaho	137	142
	Snake River near Minidoka, Idaho	138	144
(1895-1910)	Snake River at Montgomery Ferry, near Minidoka, Idaho	139	146
	Goose Creek basin:		
	..Goose Creek above Trapper Creek, near Oakley, Idaho	140	147
	....Trapper Creek near Oakley, Idaho	141	149
	..Oakley Reservoir near Oakley, Idaho	142	151
	..Goose Creek near Oakley, Idaho	143	152
	....Birch Creek near Oakley, Idaho	144	152
	Diversions from Snake River between Goose Creek and Snake River at Milner:		
	..P. A. Lateral near Milner, Idaho	145	153
	..Milner Low-Lift Canal near Milner, Idaho	146	155
	..Gooding Canal at Milner, Idaho	147	156
	..North Side Twin Falls Canal at Milner, Idaho	148	158
	..South Side Twin Falls Canal at Milner, Idaho	149	161
	Snake River at Milner, Idaho	150	163
	Tributaries between gaging stations at Milner and near Kimberly:		
	..Big Cottonwood Creek near Oakley, Idaho	151	165
	..Dry Creek near Artesian City, Idaho	152	166
	..Devils Washbowl Spring near Kimberly, Idaho	153	166
	Snake River near Kimberly, Idaho	154	166
	Snake River near Twin Falls, Idaho	155	168
	Tributaries between gaging stations near Twin Falls and near Buhl:		
	..Blue Lakes Spring (head of Blue Lakes Outlet) near Twin Falls, Idaho	156	170
	..Blue Lakes Outlet near Twin Falls, Idaho	157	170
	..Rock Creek near Rock Creek, Idaho	158	171
	....McMullen Creek near Rock Creek, Idaho	159	172
	..Rock Creek near Twin Falls, Idaho	160	172
	Snake River near Buhl, Idaho	161	173
	Clear Lakes basin:		
	..Clear Lakes Outlet near Buhl, Idaho	162	174
	Box Canyon Springs basin:		
	..Box Canyon Springs near Wendell, Idaho	163	175
	Salmon Falls Creek basin:		
	..Salmon Falls Creek above upper Vineyard ditch, near Contact, Nev	164	175
	....Upper Vineyard ditch near Contact, Nev	165	176
	..Salmon Falls Creek below upper Vineyard ditch, near Contact, Nev	166	176
	....Lower Vineyard ditch near Contact, Nev	167	176
	....Jakes Creek above Hubbard Ranch, near Contact, Nev	168	177
	.....Willow Creek near Contact, Nev	169	177
	....Jakes Creek below Hubbard Ranch, near Contact, Nev	170	177
	....Birds Nest ditch near Contact, Nev	171	178
	....Harrell ditch near Contact, Nev	172	178
	....Highline Canal near San Jacinto, Nev	173	178
	..Salmon Falls Creek below Highline Canal, near San Jacinto, Nev	174	178
	....San Jacinto ditch near San Jacinto, Nev	175	179
	....Island ditch near San Jacinto, Nev	176	179
	....West Boar's Nest ditch near San Jacinto, Nev	177	179

Bar chart of gaging-station records--Continued

Period of record (1900, 1910, 1920, 1930, 1940, 1950)	Gaging station	Map no.	Page no.
	Snake River--Continued		
	Salmon Falls Creek basin--Continued		
	....Trout Creek near San Jacinto, Nev	178	179
	....East Boar's Nest ditch near San Jacinto, Nev	179	180
	....Shoshone Creek near San Jacinto, Nev	180	180
	.....North Side ditch near San Jacinto, Nev	181	180
	..Salmon Falls Creek near San Jacinto, Nev	182	181
	..Salmon Falls Creek near Twin Falls, Idaho	183	183
	..Salmon River Canal Co. reservoir near Rogerson, Idaho	184	183
	....Salmon River Canal Co. canal near Rogerson, Idaho	185	184
	....Cedar Creek near Roseworth, Idaho	186	184
	....Devil Creek near Three Creek, Idaho	187	185
	Mud Lake-Lost River basins:		
	Mud Lake:		
	.....Camas Creek at Eighteenmile shearing corral, near Kilgore, Idaho	188	185
	.....Camas Creek near Kilgore, Idaho	189	186
	.....Camas Creek below Lone Tree Reservoir, near Kilgore, Idaho	190	187
	.....Camas Creek near Camas, Idaho	191	188
	.....Camas Creek at Camas, Idaho	192	188
	.....Beaver Creek near Spencer, Idaho	193	190
	.....Beaver Creek at Spencer, Idaho	194	190
	.....Beaver Creek at Dubois, Idaho	195	191
	.....Beaver Creek at Camas, Idaho	196	193
	.....Camas Creek near Hamer, Idaho	197	194
	....Mud Lake near Terreton, Idaho	198	195
	....Medicine Lodge Creek near Argora, Idaho	199	195
	....Medicine Lodge Creek at Ellis Ranch, near Argora, Idaho	200	196
	....Medicine Lodge Creek near Small, Idaho	201	197
	....Birch Creek near Reno, Idaho	202	198
	....Little Lost River near Clyde, Idaho	203	198
	....Little Lost River at Raymond Ranch, near Howe, Idaho	204	199
	.....Wet Creek at Clyde School, near Howe, Idaho	205	199
	....Little Lost River near Howe, Idaho	206	200
	.....Blaine County Investment Co.'s canal near Howe, Idaho	207	201
	....Big Lost River at Wild Horse, near Chilly, Idaho	208	202
	....Big Lost River at Howell Ranch, near Chilly, Idaho	209	203
	....Big Lost River below Chilly Canal, near Chilly, Idaho	210	205
	....Big Lost River at Chilly Bridge, near Chilly, Idaho	211	205
	.....Thousand Springs Creek near Chilly, Idaho	212	205
	....Big Lost River below Chilly Sinks, near Chilly, Idaho	213	206
	....Big Lost River (back channel) below Chilly Sinks, near Chilly, Idaho	214	206
	....Big Lost River (east channel) above Mackay Reservoir, near Mackay, Idaho	215	207
	....Big Lost River (west channel) above Mackay Reservoir, near Mackay, Idaho	216	208
	.....Warm Spring Creek (east channel) near Mackay, Idaho	217	210
	.....Warm Spring Creek (west channel) near Mackay, Idaho	218	212
	....Surface inflow to Mackay Reservoir near Mackay, Idaho	219	213
	....Mackay Reservoir near Mackay, Idaho	220	215
	.....Sharp ditch near Mackay, Idaho	221	216
	....Big Lost River below Mackay Reservoir, near Mackay, Idaho	222	217
	.....Streeter ditch near Mackay, Idaho	223	219
	.....Cedar Creek above forks, near Mackay, Idaho	224	219
	.....Cedar Creek below forks, near Mackay, Idaho	225	219
	.....Clark ditch near Mackay, Idaho	226	220
	.....Cedar Creek below powerplant, near Mackay, Idaho	227	220
	.....Alder Creek near Mackay, Idaho	228	221
	....Big Lost River at Leslie, Idaho	229	221
	.....Antelope Creek near Darlington, Idaho	230	222
	.....Paes Creek near Leslie, Idaho	231	222
	....Big Lost River near Moore, Idaho	232	223
	....Big Lost River near Arco, Idaho	233	223
	Riley Creek basin:		
	..Riley Creek Springs near Hagerman, Idaho	234	224
	Snake River near Hagerman, Idaho	235	224
	Snake River below Lower Salmon Falls, near Hagerman, Idaho	236	226
	Malad River basin:		
	..Big Wood River (head of Malad River) near Ketchum, Idaho	237	227
	..Big Wood River at Ketchum, Idaho	238	228
	....Warm Springs Creek at Guyer Hot Springs, near Ketchum, Idaho	239	228
	....Warm Springs Creek near Ketchum, Idaho	240	229
	....Trail Creek at Ketchum, Idaho	241	229
	..Big Wood River at Gimlet, Idaho	242	230

Bar chart of gaging-station records--Continued



Gaging station	Map no.	Page no.
Snake River--Continued		
Malad River basin--Continued		
....Big Wood Slough at Hailey, Idaho	243	230
..Big Wood River at Hailey, Idaho	244	232
..Combined discharge of Big Wood River and Big Wood Slough at Hailey, Idaho	245	234
..Big Wood River at Glendale Bridge, near Bellevue, Idaho	246	236
..Big Wood River near Bellevue, Idaho	247	236
....Camas Creek near Blaine, Idaho	248	238
..Magic Reservoir near Richfield, Idaho	249	240
..Big Wood River below Magic Dam, near Richfield, Idaho	250	241
....Lincoln Canal near Richfield, Idaho	251	243
....Lincoln Canal near Shoshone, Idaho	252	244
..Big Wood River above North Gooding Canal, near Shoshone, Idaho	253	244
..Big Wood River below North Gooding Canal, near Shoshone, Idaho	254	245
..Big Wood River near Shoshone, Idaho	255	247
..Big Wood River above Thorn Creek, near Gooding, Idaho	256	248
Thorn Creek:		
.....Thorn Creek Spillway near Gooding, Idaho	257	248
..Big Wood River at Gooding, Idaho	258	249
....Dry Creek near Blanche, Idaho	259	250
Little Wood River:		
.....Muldoon Creek near Muldoon, Idaho	260	251
....Little Wood River at Campbell Ranch, near Carey, Idaho	261	251
....Little Wood River near Carey, Idaho	262	252
.....Fish Creek above dam, near Carey, Idaho	263	254
.....West Fork Fish Creek near Carey, Idaho	264	255
.....Fish Creek near Carey, Idaho	265	256
.....Silver Creek near Picabo, Idaho	266	257
....Little Wood River near Richfield, Idaho	267	259
....Little Wood River at Shoshone, Idaho	268	261
....Little Wood River at Toponis (Gooding), Idaho	269	262
..Malad River near Gooding, Idaho	270	263
....King Hill Canal near Hagerman, Idaho	271	264
..Malad River near Bliss, Idaho	272	265
Clover Creek basin:		
..Clover Creek near Bliss, Idaho	273	265
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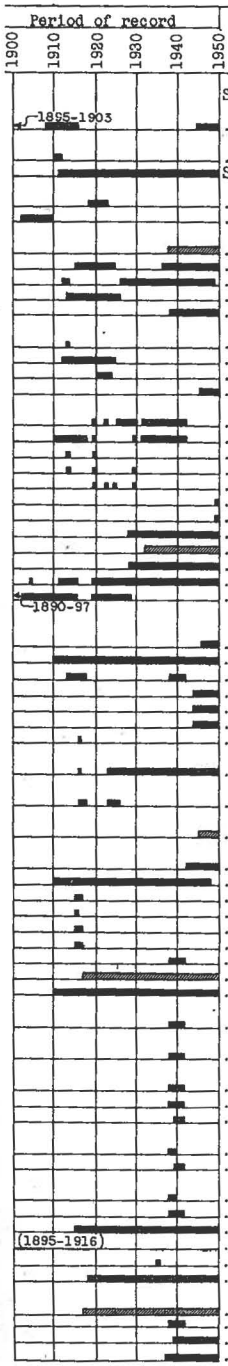
King Hill Creek basin:		
..King Hill Creek near King Hill, Idaho	275	268
Little Canyon Creek basin:		
..Little Canyon Creek near Glenns Ferry, Idaho	276	269
Cold Springs Creek basin:		
..Cold Springs Creek near Hammett, Idaho	277	270
Bennett Creek basin:		
..Bennett Creek near Bennett, Idaho	278	270
..Bennett Creek near Hammett, Idaho	279	271
Rattlesnake Creek basin:		
..Rattlesnake Creek near Mountain Home, Idaho	280	272
Canyon Creek basin:		
Long Tom Creek (head of Canyon Creek):		
....Willowdale Creek near Bennett, Idaho	281	272
..Long Tom Creek below Long Tom Reservoir, near Bennett, Idaho	282	273
....Syrup Creek near Mountain Home, Idaho	283	273
..Canyon Creek near Mountain Home, Idaho	284	274
....Mountain Home feeder canal near Mountain Home, Idaho	285	274
.....Mountain Home cooperative canal near Mountain Home, Idaho	286	275
Bruneau River basin:		
..Bruneau River near Rowland, Nev	287	275
..Bruneau River near Tindall, Idaho	288	276
....East Fork Jarbidge River near Three Creek, Idaho	289	276
....Sheep Creek near Tindall, Idaho	290	277
.....Marys Creek near Owyhee, Nev	291	278
.....Marys Creek at Tindall, Idaho	292	278
.....Louse Creek near Wickahoney, Idaho	293	279
....East Fork Bruneau River near Three Creek, Idaho	294	279
.....Three Creek near Three Creek, Idaho	295	280
.....Cherry Creek near Three Creek, Idaho	296	280
.....Deadwood Creek near Three Creek, Idaho	297	281
....East Fork Bruneau River near Hot Spring, Idaho	298	281
..Bruneau River near Winter Camp Ranch, Idaho	299	282
..Bruneau River near Hot Spring, Idaho	300	283
....Buckaroo ditch at Hot Spring, Idaho	301	284
....Wickahoney Creek (head of Little Valley Creek) near Bruneau, Idaho	302	284
.....Jacks Creek near Bruneau, Idaho	303	285
....Grandview Canal near Grand View, Idaho	304	285

Bar chart of gaging-station records--Continued



Gaging station	Map no.	Pa n
Snake River--Continued		
Bruneau River basin--Continued		
..Bruneau River near Grand View, Idaho	305	2
Castle Creek basin:		
..Castle Creek near Castle Creek, Idaho	306	2
Snake River near Murphy, Idaho	307	2
Sucker Creek basin:		
..Sucker Creek near Homedale, Idaho	308	2
..Sucker Creek at mouth, near Homedale, Idaho	309	2
Owyhee River basin:		
..Wild Horse Reservoir near Gold Creek, Nev	310	2
..Owyhee River near Gold Creek, Nev	311	2
..Owyhee River at Mountain City, Nev	312	2
..Owyhee River near Owyhee, Nev	313	2
..Owyhee River above China diversion dam, near Owyhee, Nev	314	29
....South Fork Owyhee River near Tuscarora, Nev	315	29
.....Jack Creek near Tuscarora, Nev	316	29
....South Fork Owyhee River near Deep Creek, Nev	317	29
....Jordan Creek above Lone Tree Creek, near Jordan Valley, Oreg	318	29
.....Jordan Valley feed canal near Jordan Valley, Oreg	319	29
....Jordan Creek near Jordan Valley, Oreg	320	29
.....Cow Creek at Narrows, near Jordan Valley, Oreg	321	30
.....Cow Creek at Danner, Oreg	322	30
....Jordan Creek at Danner, Oreg	323	30
..Owyhee River near Rome, Oreg	324	30
....Crooked Creek near Rome, Oreg	325	30
..Owyhee River above Owyhee Reservoir, Oreg	326	30
..Owyhee Reservoir at Owyhee Dam, near Nyssa, Oreg	327	30
..Owyhee River below Owyhee Dam, Oreg	328	30
....Owyhee Canal near Owyhee, Oreg	329	30
..Owyhee River near Owyhee, Oreg	330	30
Boise River basin:		
Boise River:		
....Middle Fork Boise River near Twin Springs, Idaho	331	30
..Boise River near Twin Springs, Idaho	332	31
....Cottonwood Creek at Arrowrock Reservoir, Idaho	333	31
....South Fork Boise River near Featherville, Idaho	334	31
.....Lime Creek near Bennett, Idaho	335	31
.....Fall Creek near Anderson Ranch Dam, Idaho	336	31
.....Little Camas Creek below reservoir, near Bennett, Idaho	337	31
.....Little Camas Canal at heading, near Bennett, Idaho	338	31
.....Little Camas Canal below Tunnel No. 9, near Bennett, Idaho	339	31
....Anderson Ranch Reservoir at Anderson Ranch Dam, Idaho	340	31
....South Fork Boise River at Anderson Ranch Dam, Idaho	341	31
....South Fork Boise River near Lenox, Idaho	342	31
.....Smith Creek near Lenox, Idaho	343	31
.....Long Gulch Creek near Lenox, Idaho	344	32
.....Rattlesnake Creek near Lenox, Idaho	345	32
.....Willow Creek near Lenox, Idaho	346	32
....Grouse Creek near Arrowrock, Idaho	347	32
..Arrowrock Reservoir at Arrowrock, Idaho	348	32
..Boise River at Dowling Ranch, near Arrowrock, Idaho	349	32
Moore Creek:		
.....Gold Hill placer diversion from Moore Creek, near Idaho City, Idaho	350	32
....Moore Creek above Granite Creek, near Idaho City, Idaho	351	32
.....Granite Creek near Idaho City, Idaho	352	32
.....Bannock Creek near Idaho City, Idaho	353	32
.....Pine Creek above Barry placer diversion, near Idaho City, Idaho	354	32
.....Pine Creek near Idaho City, Idaho	355	32
.....Elk Creek above Gold Hill placer diversion, near Idaho City, Idaho	356	32
.....Elk Creek near Idaho City, Idaho	357	32
....Moore Creek above Thorn Creek, near Idaho City, Idaho	358	32
....Moore Creek near Arrowrock, Idaho	359	32
..Boise River near Boise, Idaho	360	33
..Boise River at Barber, Idaho	361	33
....Diversions from Boise River between Dowling Ranch and Boise gaging stations, Idaho	362	33
....Lake Lowell near Caldwell, Idaho	363	33
....Cottonwood Gulch at Boise, Idaho	364	33
..Boise River at Boise, Idaho	365	33
..Boise River at Strawberry Glen Bridge, near Boise, Idaho	366	33

Monthly and yearly runoff, in acre-feet, of Willow Creek near Ririe, Idaho

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1903	-	-	-	-	-	-	‡9,920	‡29,500	‡16,500	‡2,210	‡1,140	‡1,010	-
1904	‡2,150	‡2,380	‡2,150	‡2,150	‡2,010	‡2,610	‡19,100	‡96,100	‡29,400	‡5,830	‡3,260	‡2,500	‡170,000
1917	‡3,260	‡3,090	‡2,830	2,970	2,980	4,170	9,760	131,000	79,100	19,200	7,190	4,350	‡270,000
1918	4,190	4,240	4,410	4,060	3,900	6,080	31,900	44,000	19,300	7,260	3,200	2,430	135,000
1919	3,490	3,270	2,540	2,340	2,170	9,040	44,600	29,000	9,040	2,170	1,240	1,520	110,000
1920	2,530	2,640	2,090	2,420	2,130	2,490	17,600	80,600	21,900	6,640	2,610	2,370	146,000
1921	‡3,380	‡3,090	‡2,770	‡2,640	‡2,330	‡5,210	29,000	78,100	25,800	8,300	3,320	2,740	‡167,000
1922	3,190	3,500	‡3,070	‡2,460	‡2,500	‡3,070	8,090	74,400	24,100	7,320	4,250	2,520	‡138,000
1923	2,790	‡2,860	‡2,640	‡2,640	‡2,220	‡2,950	‡12,300	57,900	22,300	8,420	3,210	2,540	‡123,000
1924	3,630	‡2,990	‡2,770	‡2,460	‡2,470	‡2,890	‡23,500	24,500	5,110	2,460	781	988	‡74,500
1925	2,020	‡1,720	‡1,230	‡1,480	‡1,560	‡7,360	38,800	37,100	18,700	‡8,150	‡3,070	‡2,680	‡124,000
1928	-	-	-	-	-	-	-	56,400	16,700	6,460	2,210	-	-

‡ Not previously published; partly estimated on the basis of gage heights, discharge measurements and records for nearby streams; only monthly figures available.

Yearly discharge, in cubic feet per second

Year	W.S.P. no.	Water year ending Sept. 30				Calendar year	
		Momentary maximum		Minimum day	Mean	Runoff in acre-feet	Mean	Runoff in acre-feet
		Discharge	Date					
1903	100	a920	May 8, 1903	10	-	-	-	-
1904	135	a2,710	May 5, 1904	20	‡234	‡170,000	-	-
1917	463	a4,200	May 15, 1917	34	‡373	‡270,000	378	274,000
1918	483	a1,500	Apr. 26, 1918	36	186	135,000	182	131,000
1919	513	a1,650	Apr. 24, 1919	13	153	110,000	150	108,000
1920	513	a2,550	May 9, 1920	24	201	146,000	203	148,000
1921	533	a2,240	May 3, 1921	37	‡231	‡167,000	‡231	‡167,000
1922	553	2,360	May 9, 1922	33	‡191	‡138,000	‡189	‡137,000
1923	573	1,740	May 7, 1923	36	‡170	‡123,000	‡171	‡124,000
1924	593	1,420	Apr. 24, 1924	10	‡103	‡74,500	‡96.6	‡70,100
1925	613	1,330	Apr. 16, 1925	18	‡171	‡124,000	-	-
1928	673	-	May 1, 1928	24	-	-	-	-

‡ Not previously published.
a Maximum observed.

SNAKE RIVER MAIN STEM

97. Snake River at Idaho Falls, Idaho

Location.--Lat 43°29', long. 112°03', in sec. 25, T. 2 N., R. 37 E., about two miles downstream from town of Idaho Falls.

Drainage area.--9,760 sq mi (revised).

Gage.--Staff gage. Altitude of gage is 4,665 ft (from river-profile survey).

Extremes.--1889-94: Maximum discharge, about 75,000 cfs June 6, 1894 (gage height, about 12.5 ft, estimated); minimum observed, 2,200 cfs Apr. 8, 1892 (gage height, 1.6 ft).

Remarks.--Diversions for irrigation above station of about 50,000 acres in 1890 and about 120,000 acres by 1894.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1889	-	-	-	-	-	-	-	-	-	5,180	2,600	2,300	-
1890	2,420	2,740	2,600	a2,250	a2,500	a2,700	5,700	35,600	34,900	20,000	7,880	4,930	a10,400
1891	4,550	4,210	3,900	-	-	-	-	-	-	-	-	-	-
1892	‡2,700	‡2,870	‡2,720	a2,500	a2,650	‡3,160	3,760	18,200	41,400	24,100	6,460	4,310	‡9,560
1893	4,160	4,100	4,000	a3,800	a3,850	a3,900	‡4,050	13,300	31,200	14,500	4,740	3,500	‡7,930
1894	3,500	3,500	‡3,640	‡3,200	‡3,200	‡3,600	6,180	37,800	‡54,600	26,000	8,850	‡6,400	‡13,400
1895	‡6,200	4,870	‡3,860	-	-	-	-	-	-	-	-	-	-

‡ Not previously published; partly estimated on the basis of known characteristics of flow for this stream.
a Only monthly figures revised; revised daily figures not available.

Monthly and yearly runoff, in thousands of acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1889	-	-	-	-	-	-	-	-	-	319	160	137	-
1890	149	163	160	a138	a139	a166	339	2,190	2,070	1,230	484	294	a7,520
1891	280	250	240	-	-	-	-	-	-	-	-	-	-
1892	‡166	‡171	‡167	a154	a152	‡194	224	1,120	2,460	1,480	397	257	‡6,940
1893	256	244	246	a234	a214	a240	‡241	820	1,860	891	292	208	‡5,750
1894	215	208	‡224	‡197	‡178	‡221	368	2,330	‡3,250	1,600	544	‡381	‡9,710
1895	‡381	290	‡237	-	-	-	-	-	-	-	-	-	-

‡ Not previously published; see footnote to preceding table.
a Only monthly figures revised; revised daily figures not available.

Monthly and yearly mean discharge, in cubic feet per second, of Diversions from Snake River between Shelley and Blackfoot gaging stations, Idaho

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1943	891	298	124	50.3	32.3	53.2	158	2,786	2,797	3,605	3,191	2,705	1,401

Monthly and seasonal runoff, in acre-feet

Year								May	June	July	Aug.	Sept.	The period
1919								‡17,000	135,000	79,600	37,800	47,400	‡417,000
1920								‡76,800	164,000	178,000	132,000	‡96,300	‡647,000
1921								‡56,100	151,000	178,000	133,000	87,400	‡606,000
1922								‡37,300	171,000	163,000	126,000	75,500	‡573,000
1923								98,500	137,000	144,000	132,000	103,000	614,000
1924								‡149,000	128,000	125,000	73,800	60,700	‡537,000
1925								‡129,000	176,000	191,000	166,000	106,000	‡768,000
1926								173,000	148,000	99,600	80,600	46,700	548,000
1927								‡101,000	180,000	203,000	158,000	117,000	‡759,000
1928								‡148,000	155,000	186,000	174,000	139,000	‡802,000
1929								‡91,400	193,000	196,000	136,000	110,000	‡726,000
1930								164,000	201,000	188,000	121,000	124,000	798,000
1931								131,000	149,000	115,000	84,200	53,500	532,000
1932								141,000	176,000	196,000	144,000	96,400	753,000
1933								114,000	228,000	183,000	135,000	94,000	754,000
1934								167,000	85,700	92,800	62,700	45,900	454,000
1935								134,900	205,900	185,000	102,500	62,180	690,500
1936								188,700	195,200	194,000	128,100	93,740	799,700
1937								143,400	184,100	187,000	123,600	83,100	721,200
1938								133,100	198,700	187,800	152,300	109,900	781,800
1939								210,000	192,300	195,200	140,800	101,600	839,900
1940								198,700	192,800	144,900	110,300	60,570	707,300
1941								158,000	193,000	174,000	131,700	113,500	770,200
1942								120,600	207,200	205,800	146,800	105,400	785,800
1943								171,300	166,400	221,700	196,200	160,900	1,014,000
1944								129,800	133,100	201,800	156,700	112,300	733,700
1945								134,300	154,400	214,700	182,100	138,800	824,300
1946								163,000	163,700	211,100	165,500	105,500	808,800
1947								202,900	165,000	225,700	183,600	119,900	897,100
1948								105,700	174,100	216,800	171,600	114,300	782,500
1949								163,500	200,600	221,900	164,400	123,500	873,900
1950								148,100	166,300	212,600	197,900	123,100	848,000

‡ Not previously published; partly estimated on the basis of data furnished by Idaho Water District 36.

Monthly and yearly runoff, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1943	54,780	17,710	7,650	3,090	1,800	3,270	9,420	171,300	166,400	221,700	196,200	160,900	1,014,000

118. Snake River near Blackfoot, Idaho 1/

Location.--Lat 43°07', long. 112°31', in SE¼ sec. 30, T. 3 S., R. 34 E., a quarter of a mile downstream from Blackfoot River and 10 miles (revised) southwest of Blackfoot.

Drainage area.--11,310 sq mi.

Gage.--Water-stage recorder. Altitude of gage, 4,401 ft (from river-profile map). Prior to July 6, 1913, staff gages at practically same site and datum.

Average discharge.--24 years (1926-50), 3,778 cfs.

Extremes.--1910-50: Maximum discharge, 46,200 cfs June 18, 1918 (gage height, 14.80 ft); minimum, 111 cfs Nov. 10, 1934 (gage height, 0.80 ft).
A flow of 39 cfs was measured on Aug. 9, 1905 at a point just below mouth of Blackfoot river.

Remarks.--Diversions for irrigation upstream of about 694,000 acres. Much of the ground-water return flow from irrigation of these lands enters Snake River downstream from this station. Regulation by Jackson, Henrys, and Grassy Lakes and by Island Park and Blackfoot-Marsh Reservoirs (see elsewhere in this report) having a combined capacity of 1,483,000 acre-ft.

1/ Published as Snake River at Clough Ranch, near Blackfoot, 1924-45.

Monthly and yearly mean discharge, in cubic feet per second, of Snake River near Blackfoot, Idaho

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1910	-	-	-	-	-	-	-	-	‡9,950	3,960	469	1,540	-
1911	2,430	3,410	3,230	3,250	3,870	4,000	4,960	14,800	25,600	9,200	3,520	3,150	6,780
1912	3,650	3,850	3,900	3,950	3,420	3,210	4,240	13,700	26,600	13,000	7,970	9,170	8,050
1913	6,970	5,840	3,940	3,110	3,330	4,190	10,100	19,500	25,000	12,500	5,250	7,710	8,970
1914	6,010	5,710	4,150	4,060	3,360	3,960	9,650	18,000	21,100	6,360	3,700	4,360	7,540
1915	5,910	5,680	3,920	3,570	3,570	3,430	5,760	7,000	7,480	3,380	2,010	1,520	4,440
1916	‡3,890	‡3,500	‡2,960	2,250	2,860	4,430	9,620	15,100	16,300	10,200	6,340	4,620	‡6,850
1917	5,120	4,100	3,390	2,670	2,770	2,860	5,270	18,500	26,100	18,500	6,280	4,660	8,380
1918	4,270	4,360	4,210	3,520	2,990	3,790	6,290	11,100	31,000	9,450	7,010	4,710	7,720
1919	3,890	4,070	3,240	2,660	2,860	3,480	6,790	7,920	5,430	2,740	436	159	3,640
1920	1,510	2,920	1,830	2,040	2,210	2,210	3,070	14,100	11,400	6,710	5,040	2,070	4,600
1921	2,780	3,820	3,230	2,950	2,910	3,390	5,530	18,400	19,600	6,680	4,820	2,570	6,410
1922	2,100	3,330	3,530	2,170	2,540	3,280	4,480	15,800	13,600	6,830	4,730	1,730	5,360
1923	1,250	3,470	3,030	3,040	2,240	2,860	4,210	12,500	12,200	7,170	4,320	2,100	4,890
1924	3,340	3,510	2,850	2,500	3,080	2,450	3,210	3,530	3,750	2,860	193	195	2,620
1925	1,580	2,600	1,830	2,100	2,730	2,780	8,970	17,200	12,100	10,300	5,120	3,680	5,930
1926	4,480	4,420	3,960	2,770	3,390	3,760	7,040	4,340	5,610	4,410	1,350	462	3,830
1927	1,270	2,520	2,520	2,210	2,410	2,640	3,700	15,300	23,500	11,300	3,730	3,980	6,260
1928	4,040	5,900	4,110	4,350	3,380	3,810	5,510	25,400	15,800	4,760	735	940	6,570
1929	2,830	3,880	3,700	2,550	2,470	3,770	5,010	8,390	8,800	1,850	1,260	1,730	3,850
1930	2,420	3,120	3,380	1,870	3,130	3,200	5,950	3,200	3,850	2,060	3,360	1,290	3,060
1931	3,380	3,240	2,330	1,910	2,400	2,640	2,940	1,080	325	214	354	187	1,740
1932	216	641	1,260	1,040	1,030	1,860	3,490	9,780	10,200	2,970	842	708	2,830
1933	902	2,630	1,970	2,460	1,790	2,530	3,720	6,170	9,290	1,340	759	756	2,850
1934	302	1,510	2,570	2,410	1,900	1,190	330	395	603	261	222	147	983
1935	155	175	1,125	975	1,210	1,540	2,822	5,667	5,510	1,469	2,719	594	2,001
1936	386	2,412	1,882	1,800	1,664	2,402	5,871	16,210	12,640	1,222	748	421	3,969
1937	720	2,611	2,543	1,302	1,890	2,486	3,206	7,866	4,349	903	618	460	2,414
1938	710	1,803	2,855	2,298	2,512	2,819	6,242	12,040	13,530	6,656	683	428	4,385
1939	2,701	3,810	3,065	2,601	2,095	3,339	7,546	5,918	4,570	612	727	659	3,134
1940	1,776	2,042	2,047	2,156	2,580	2,708	4,295	2,606	2,737	943	1,617	1,159	2,217
1941	1,958	2,514	2,180	1,942	2,138	2,546	3,409	4,147	2,695	755	1,314	733	2,193
1942	1,874	2,742	3,033	1,783	1,985	2,382	7,261	7,061	5,488	1,745	571	866	3,064
1943	1,272	3,034	2,905	2,825	3,098	3,785	14,660	12,210	19,510	10,770	802	876	6,303
1944	3,387	5,046	3,622	2,384	3,101	3,294	4,015	4,447	12,360	2,098	593	771	3,744
1945	1,067	2,936	2,423	2,364	2,743	2,764	3,226	8,249	11,690	5,491	1,317	2,518	3,895
1946	3,694	4,293	3,195	3,223	3,934	5,084	13,410	10,750	12,020	1,553	957	1,544	5,288
1947	3,570	4,160	3,754	2,037	2,877	3,326	5,000	10,580	14,010	1,986	1,447	2,261	4,579
1948	2,861	3,883	3,399	2,810	3,021	3,167	5,657	13,580	16,640	2,503	1,087	1,319	4,984
1949	2,626	3,181	2,576	1,814	2,103	4,054	7,236	12,780	11,360	1,521	968	956	4,267
1950	3,567	3,887	3,031	2,265	2,997	3,878	8,730	10,740	19,260	10,170	1,751	2,947	6,099

‡ Not previously published; estimated on the basis of weather records and records for Snake River near Shelley.

Monthly and yearly runoff, in thousands of acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1910	-	-	-	-	-	-	-		‡592	243	28.8	91.6	-
1911	149	203	199	200	215	246	295	910	1,520	566	216	187	4,906
1912	224	229	240	243	197	197	252	842	1,580	799	490	546	5,839
1913	429	348	242	191	185	258	601	1,200	1,490	769	323	459	6,495
1914	370	340	255	250	187	243	574	1,110	1,260	391	228	259	5,467
1915	363	338	241	220	198	211	343	430	445	208	124	90.4	3,211
1916	‡239	‡208	‡182	138	165	272	572	928	970	627	390	275	‡4,966
1917	315	244	208	164	154	176	314	1,140	1,550	1,140	386	277	6,068
1918	263	259	259	216	166	233	374	682	1,840	581	431	280	5,584
1919	239	242	199	164	159	214	404	487	323	168	26.8	9.46	2,635
1920	92.8	174	113	125	127	136	183	867	678	413	310	123	3,342
1921	171	227	199	181	162	208	329	1,130	1,170	411	296	153	4,637
1922	129	198	217	133	141	202	267	972	809	420	291	103	3,882
1923	76.9	206	186	187	124	176	251	769	726	441	266	125	3,534
1924	205	209	175	154	177	151	191	217	223	176	11.9	11.6	1,902
1925	97.2	155	113	129	152	171	534	1,060	720	633	315	219	4,298
1926	275	263	243	170	188	231	419	267	334	271	83	27.5	2,772
1927	78.1	150	155	136	134	162	220	941	1,400	695	229	237	4,537
1928	248	351	253	267	194	234	328	1,560	940	293	45.2	55.9	4,769
1929	174	231	228	157	137	232	298	516	524	114	77.5	103	2,792
1930	149	186	208	115	174	197	354	197	229	127	207	76.8	2,220
1931	208	193	143	117	133	162	175	66.4	19.3	13.2	21.8	11.1	1,263
1932	13.3	38.1	77.5	64	59.2	114	208	601	607	183	51.8	42.1	2,059
1933	55.5	156	121	151	99.4	156	221	379	553	82.4	46.7	45	2,066
1934	18.6	89.8	158	148	106	73.2	19.6	24.3	35.9	16	13.6	8.75	712
1935	10.14	10.44	69.16	59.94	67.18	94.71	167.9	348.5	327.9	90.4	167.2	35.36	1,449
1936	23.72	143.5	115.7	110.6	95.72	147.7	349.3	996.9	751.9	75.1	46	25.08	2,881
1937	44.27	155.3	156.3	80.08	104.9	152.9	190.8	483.7	258.8	55.5	37.97	27.35	1,748
1938	43.64	107.3	175.5	141.3	139.5	173.4	371.4	740.4	805.1	409.3	41.98	25.47	3,174
1939	166.1	226.7	188.5	159.9	116.4	205.3	449	363.9	271.9	37.6	44.68	39.22	2,269
1940	109.2	121.5	125.9	132.6	148.4	166.5	255.6	160.3	162.8	58	99.4	68.96	1,609

‡ Not previously published; see footnote to preceding table.

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Monthly and yearly runoff, in thousands of acre-feet, of Snake River near Blackfoot, Idaho--Continued

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1941	120.4	149.6	134.1	119.4	118.7	156.6	202.9	255	160.3	46.4	80.77	43.62	1,588
1942	115.2	163.1	186.5	109.6	110.2	146.5	432	434.2	326.6	107.3	35.12	51.53	2,218
1943	78.23	180.5	178.6	173.7	172	232.8	872.1	750.5	1,161	662.1	49.32	52.1	4,563
1944	208.3	300.3	222.7	146.6	178.4	202.6	238.9	273.5	735.6	129	36.44	45.87	2,718
1945	65.6	174.7	149	145.4	152.4	169.9	191.9	507.2	695.7	337.6	81	149.8	2,820
1946	227.1	255.5	196.4	198.2	218.5	312.6	798.2	660.7	715.2	95.5	58.87	91.86	3,829
1947	219.5	247.5	230.8	125.3	159.8	204.5	297.5	650.8	833.7	122.1	88.95	134.5	3,315
1948	175.9	231	209	172.8	173.8	194.8	336.6	835.3	990	153.9	66.83	78.5	3,618
1949	161.5	189.3	158.4	111.5	116.8	249.3	430.6	785.6	675.8	93.5	59.52	56.89	3,089
1950	219.4	231.3	186.3	139.3	166.4	238.5	519.5	660.5	1,146	625.1	107.6	175.4	4,415

Yearly discharge, in cubic feet per second

Year	W.S.P. no.	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Runoff in acre-feet	Mean	Runoff in acre-feet
		Discharge	Date					
1911	312	a32,900	June 22, 1911	625	6,780	4,906,000	6,960	5,048,000
1912	332	a34,000	June 16, 1912	2,410	8,050	5,839,000	8,500	6,165,000
1913	362	a32,400	(b)	1,920	8,970	6,495,000	8,900	6,441,000
1914	393	35,600	June 8, 1914	2,130	7,540	5,467,000	7,520	5,444,000
1915	413	15,800	June 5, 1915	388	4,440	3,211,000	‡4,000	‡2,898,000
1916	443	24,700	June 22, 1916	1,020	‡6,850	‡4,966,000	7,030	5,104,000
1917	463	36,200	June 22, 1917	1,530	8,380	6,068,000	8,400	6,082,000
1918	483	46,200	June 18, 1918	1,790	7,720	5,584,000	7,570	5,483,000
1919	513	12,100	May 1, 1919	118	3,640	2,635,000	3,220	2,335,000
1920	513	21,700	May 20, 1920	266	4,600	3,342,000	4,900	3,559,000
1921	533	28,800	June 1, 1921	1,380	6,410	4,637,000	6,330	4,584,000
1922	553	25,800	May 28, 1922	449	5,360	3,882,000	5,250	3,807,000
1923	573	20,500	May 28, 1923	443	4,890	3,534,000	5,050	3,654,000
1924	593	9,330	June 3, 1924	131	2,620	1,902,000	2,310	1,678,000
1925	613	24,700	May 24, 1925	467	5,930	4,298,000	6,520	4,714,000
1926	633	12,800	Apr. 23, 1926	147	3,830	2,772,000	3,270	2,374,000
1927	653	33,700	July 1, 1927	749	6,260	4,537,000	6,930	5,006,000
1928	673	33,500	May 31, 1928	343	6,570	4,769,000	6,270	4,550,000
1929	693	21,400	June 19, 1929	191	3,850	2,792,000	3,730	2,702,000
1930	708	8,390	Apr. 16, 1930	163	3,060	2,220,000	3,070	2,221,000
1931	723	c4,800	Oct. 13, 1930	139	1,740	1,263,000	1,170	848,000
1932	738	c16,400	May 16, 1932	158	2,830	2,059,000	3,120	2,263,000
1933	753	c14,800	June 17, 1933	169	2,850	2,066,000	2,760	2,000,000
1934	768	2,920	Dec. 16, 1933	124	983	712,000	739	535,000
1935	793	10,800	June 16, 1935	111	2,001	1,449,000	2,268	1,642,000
1936	813	25,200	June 4, 1936	158	3,969	2,881,000	4,070	2,954,000
1937	833	12,600	May 10, 1937	163	2,414	1,748,000	2,374	1,718,000
1938	863	19,300	July 4, 1938	157	4,385	3,174,000	4,737	3,429,000
1939	883	13,000	May 6, 1939	166	3,134	2,289,000	2,824	2,044,000
1940	903	6,620	June 9, 1940	150	2,217	1,609,000	2,282	1,657,000
1941	933	8,420	May 29, 1941	162	2,193	1,588,000	2,277	1,648,000
1942	963	13,000	Apr. 25, 1942	238	3,064	2,218,000	3,026	2,190,000
1943	983	25,600	June 25, 1943	285	6,303	4,563,000	6,709	4,857,000
1944	1013	20,600	June12,13,1944	180	3,744	2,718,000	3,273	2,376,000
1945	1043	18,400	June 11, 1945	212	3,895	2,820,000	4,296	3,110,000
1946	1063	23,700	Apr. 29, 1946	226	5,288	3,829,000	5,314	3,847,000
1947	1093	25,000	June 12, 1947	218	4,579	3,315,000	4,465	3,233,000
1948	1123	23,900	June 6, 1948	318	4,984	3,618,000	4,837	3,512,000
1949	1153	24,500	May 22, 1949	270	4,267	3,089,000	4,443	3,217,000
1950	1183	26,300	June 10, 1950	588	6,099	4,415,000	6,404	4,636,000

‡ Not previously published.
a Maximum observed.
b May 31, June 7-9, 1913.
c Maximum daily.

PORTNEUF RIVER BASIN

119. Portneuf River above reservoir, near Chesterfield, Idaho

Location.--Lat 42°56', long. 112°00', in sec. 3, T. 6 S., R. 38 E., just upstream from backwater of Portneuf-Marsh Valley Reservoir and about 7 miles west of Chesterfield.

Drainage area.--68 sq mi, approximately.

Gage.--Staff gage. Altitude of gage is 5,395 ft (from topographic map).

Extremes.--1912-14: Maximum discharge observed, 131 cfs Mar. 31, 1913 (gage height, 5.2 ft); minimum observed, 8.8 cfs Oct. 1, 1913 (gage height, 2.5 ft).

Remarks.--Several small ranch diversions above station.

Yearly discharge, in cubic feet per second, of Portneuf River at Pocatello, Idaho--Continued

Year	W.S.P. no.	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Runoff in acre-feet	Mean	Runoff in acre-feet
		Discharge	Date					
1941	963	584	Mar. 4, 1941	53	196	141,600	207	149,600
1942	963	726	Apr. 15, 1942	30	236	170,800	240	173,500
1943	983	895	Apr. 22, 1943	67	297	215,000	308	223,100
1944	1013	638	June 13, 1944	19	250	181,600	238	172,600
1945	1043	774	June 12, 1945	85	308	223,300	334	241,800
1946	1063	1,040	Apr. 30, 1946	73	340	246,200	347	250,900
1947	1093	554	Feb. 14, 1947	15	250	181,300	227	164,500
1948	1123	733	May 20, 1948	33	276	200,200	281	203,900
1949	1153	686	Apr. 26, 1949	36	252	182,200	251	181,600
1950	1183	902	May 20, 1950	95	383	277,300	-	-

SNAKE RIVER MAIN STEM

129. American Falls Reservoir at American Falls, Idaho

Location.--Lat 42°46', long. 112°53', in sec. 30, T. 7 S., R. 31 E., at outlet gates of reservoir on Snake River at American Falls.

Drainage area.--13,580 sq mi, approximately.

Gage.--Water-stage recorder. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

Extremes.--1926-50: Maximum contents, 1,726,580 acre-ft June 10, 1938 (elevation, 4,354.97 ft); minimum since full capacity was first attained on July 13, 1927, 17,200 acre-ft Oct. 22, 1931 (elevation, 4,299.72 ft).

Remarks.--Rated capacity of reservoir is 1,700,000 acre-ft at elevation 4,354.50 ft. Partial storage began in 1926, full storage in 1927. Contents given herein are computed from mean daily elevations.

Cooperation.--Elevations and capacity table furnished by Bureau of Reclamation.

Contents, in thousands of acre-feet, on last day of month

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1926	-	-	-	-	5.1	5.3	108	44.6	27.6	15.4	3.5	4.4
1927	18.0	206	402	465	597	782	964	1,402	1,676	1,620	1,448	1,389
1928	1,595	1,659	1,501	1,457	1,369	1,323	1,306	1,454	1,689	1,542	1,173	968
1929	868	1,054	1,155	1,294	1,400	1,531	1,372	1,447	1,571	1,243	918	746
1930	913	847	876	768	942	1,208	1,268	1,261	1,097	773	656	552
1931	840	932	931	1,072	1,273	1,449	1,516	1,154	783	339	64.4	39.3
1932	25.0	95.8	232	356	427	618	820	1,078	1,277	913	464	232
1933	315	554	673	865	991	1,211	1,315	1,336	1,372	944	481	244
1934	294	421	655	866	1,037	1,136	1,031	743	558	254	67.7	32.3
1935	19.5	70.1	251	397	570	740	954	970	835	405	188	45.2
1936	96.5	275	482	701	919	1,185	1,509	1,719	1,660	1,205	787	606
1937	689	905	1,146	1,287	1,490	1,711	1,721	1,656	1,530	1,044	576	412
1938	474	674	950	1,194	1,430	1,705	1,708	1,719	1,719	1,422	960	685
1939	911	1,220	1,483	1,635	1,674	1,676	1,699	1,521	1,344	872	423	252
1940	451	645	856	1,091	1,335	1,580	1,711	1,406	1,082	622	265	264
1941	473	707	936	1,116	1,310	1,549	1,690	1,508	1,296	830	440	320
1942	562	874	1,167	1,219	1,355	1,543	1,707	1,713	1,612	1,170	666	410
1943	461	718	952	1,146	1,212	1,234	1,508	1,654	1,710	1,579	1,106	897
1944	950	1,137	1,277	1,382	1,634	1,703	1,703	1,594	1,707	1,287	784	534
1945	628	879	1,116	1,283	1,459	1,604	1,693	1,704	1,708	1,475	1,041	925
1946	1,142	1,202	1,217	1,178	1,225	1,368	1,534	1,653	1,706	1,258	818	719
1947	929	1,129	1,285	1,290	1,366	1,617	1,684	1,689	1,693	1,269	832	687
1948	834	1,059	1,199	1,307	1,467	1,671	1,697	1,704	1,710	1,308	853	665
1949	892	1,145	1,188	1,125	1,014	1,075	1,284	1,593	1,681	1,215	764	535
1950	731	1,014	1,209	1,342	1,448	1,527	1,552	1,492	1,707	1,495	1,081	926

13077b130. Snake River at Neeley, Idaho

Location.--Lat 42°46'20" (revised), long. 112°52'45" (revised), in SW¼ sec. 31, T. 7 S., R. 31 E., on right bank 400 ft upstream from Fish Hatchery building and 0.9 mile downstream from American Falls Dam.

Drainage area.--13,600 sq mi, approximately.

Gage.--Water-stage recorder. Datum of gage is 4,241.6 ft above mean sea level (levels by Bureau of Reclamation). Prior to Aug. 7, 1910, staff gages and Aug. 8, 1910, to June 6, 1930, water-stage recorder, at site 2½ miles downstream at different datums. June 7, 1930, to Mar. 19, 1945, water-stage recorder at site 0.4 mile upstream from present site and at different datum.

Average discharge.--24 years (1926-50), 6,479 cfs.

Extremes.--1906-50: Maximum discharge, 48,400 cfs June 20, 1918 (gage height, 13.5 ft, site and datum then in use); minimum, 50 cfs Oct. 22, 23, Nov. 14-16, 1941.

Remarks.--Since 1937 records computed to show flow at former site in sec. 11, T. 8 S., R. 30 E., half a mile north of Neeley and 2½ miles downstream from present site, by adding 30 cfs inflow between sites. Flow regulated by American Falls Reservoir immediately upstream and other reservoirs having a usable capacity of 3,200,000 acre-ft. About 740,000 acres irrigated upstream from station.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1906	-	-	-	-	-	‡4,980	7,580	17,400	21,800	8,890	3,020	4,750	-
1907	4,690	5,290	‡4,950	‡5,100	‡5,850	7,120	13,900	23,600	30,200	23,900	8,670	6,890	‡11,700
1908	7,480	7,700	7,540	6,710	6,200	7,100	9,920	12,700	23,600	11,800	5,710	5,640	9,330
1909	7,110	6,960	6,180	6,980	6,850	6,430	7,810	17,500	35,500	21,200	9,550	9,470	11,800
1910	8,120	9,170	a7,450	‡5,700	‡5,600	11,700	18,500	24,100	12,700	6,330	2,840	4,010	‡9,700
1911	5,010	6,050	5,730	5,880	6,920	7,500	8,000	18,400	29,700	12,700	5,810	5,640	9,780
1912	6,300	6,780	6,840	6,890	6,620	6,300	7,380	16,500	30,000	16,400	10,600	12,400	11,100
1913	10,500	9,210	6,490	5,920	6,380	7,060	12,800	22,200	28,400	15,200	7,970	10,400	11,900
1914	8,980	8,660	6,920	7,110	6,760	7,410	12,800	21,300	23,800	8,750	5,910	6,650	10,400
1915	8,470	8,220	6,480	6,000	6,130	5,970	8,280	9,300	9,660	5,740	4,160	3,690	6,840
1916	6,200	6,120	5,410	4,530	5,550	7,460	12,100	18,100	18,600	12,800	8,750	7,130	9,400
1917	7,790	6,810	5,890	5,020	5,340	5,610	8,660	21,700	29,200	21,600	9,020	7,590	11,200
1918	7,130	7,220	7,080	6,300	5,420	6,750	9,210	13,800	33,100	12,800	9,730	7,280	10,500
1919	6,670	6,890	5,900	5,200	5,710	6,680	9,800	10,800	8,030	5,160	2,930	2,570	6,370
1920	4,000	5,650	4,410	4,680	4,990	5,090	6,080	17,100	14,500	9,180	7,520	4,770	7,340
1921	5,440	6,720	6,140	5,900	5,850	6,690	8,540	21,500	23,300	9,250	7,480	5,300	9,360
1922	4,800	6,050	6,260	4,950	5,360	6,470	7,820	19,300	16,800	9,480	7,660	4,500	8,310
1923	3,910	6,190	5,640	5,970	4,890	5,900	7,450	15,600	15,300	10,100	7,290	4,880	7,780
1924	6,370	6,630	5,730	5,240	6,070	5,550	6,170	6,050	6,030	5,250	2,780	2,670	5,370
1925	3,970	5,250	4,460	4,950	5,810	5,610	12,200	19,700	14,700	13,000	7,890	6,560	8,690
1926	7,340	7,350	6,850	5,520	6,370	6,840	8,370	7,940	8,420	7,130	4,140	3,060	6,610
1927	3,780	2,000	2,000	3,950	3,140	2,360	3,340	11,200	20,800	14,900	8,940	7,520	7,010
1928	3,320	7,730	9,720	8,090	8,020	7,940	8,480	24,900	14,400	9,580	9,130	7,060	9,880
1929	7,320	3,870	4,750	2,780	3,290	4,750	10,700	10,100	9,140	9,640	8,980	7,070	6,890
1930	2,610	7,300	5,800	6,610	3,060	1,740	7,410	5,880	9,140	9,960	8,090	5,910	6,140
1931	1,670	4,700	5,330	2,420	1,640	2,660	4,710	9,620	9,230	10,100	7,450	3,300	5,260
1932	3,350	2,260	1,820	1,820	2,630	1,820	3,060	8,160	9,120	11,400	11,000	7,450	5,340
1933	2,270	1,380	2,780	2,080	2,210	1,710	4,590	8,750	10,700	11,000	11,200	7,460	5,520
1934	2,320	2,270	1,580	1,600	1,460	2,010	4,580	7,540	6,060	7,560	5,660	3,140	3,830
1935	3,010	1,906	797	1,190	712	1,308	1,688	7,937	10,220	11,020	8,791	5,405	4,526
1936	2,145	2,013	1,044	928	523	578	2,736	15,160	16,090	11,190	10,260	5,931	5,734
1937	1,975	1,692	1,178	1,774	861	1,764	5,699	11,300	9,371	11,630	10,900	5,715	5,355
1938	2,346	1,277	1,161	988	846	1,119	8,866	14,560	15,570	14,300	10,770	7,738	6,656
1939	1,901	1,300	1,394	2,864	4,158	6,232	9,913	11,090	9,863	11,090	10,870	6,232	6,422
1940	1,436	1,505	1,319	1,061	1,051	1,279	4,511	10,170	10,810	11,040	10,070	4,068	4,877
1941	1,345	1,260	1,092	1,737	1,516	1,384	3,832	10,010	8,907	10,950	10,410	5,315	4,840
1942	813	321	1,152	3,901	2,217	2,052	7,392	10,230	9,696	11,650	11,490	7,796	5,748
1943	3,174	1,852	1,990	2,848	5,071	6,582	13,140	12,400	21,230	15,680	11,420	7,237	8,556
1944	5,426	4,777	4,268	3,666	1,553	5,136	6,968	9,080	13,100	11,760	11,260	7,641	7,071
1945	2,392	1,633	1,345	2,724	2,665	3,187	4,378	11,260	14,760	11,870	11,210	7,167	6,237
1946	3,155	6,081	5,971	6,831	5,887	6,080	13,110	11,900	14,050	11,470	10,950	6,075	8,469
1947	3,142	4,013	4,286	4,845	4,312	1,856	6,446	12,930	16,450	11,680	11,160	7,536	7,401
1948	3,465	3,024	4,222	4,097	3,091	2,650	8,191	16,290	19,310	11,810	11,270	7,284	7,901
1949	1,834	2,165	4,862	5,663	6,913	6,287	6,185	10,140	12,420	11,950	11,340	7,647	7,290
1950	3,473	1,982	2,568	3,149	4,120	5,790	11,320	14,740	18,700	16,570	11,410	8,402	8,537

a Only monthly figures revised; revised daily figures not available.
‡ Not previously published; partly estimated on the basis of weather records and records for other Snake River stations.

Monthly and yearly r

Water year	Oct.	Nov.	Dec.
1906	-	-	-
1907	288	315	‡304
1908	460	458	464
1909	437	414	380
1910	499	546	a458
1911	308	360	352
1912	387	403	421
1913	646	548	399
1914	552	515	425
1915	521	489	398
1916	381	364	333
1917	479	405	362
1918	438	430	435
1919	410	410	363
1920	246	336	271
1921	334	400	378
1922	295	360	385
1923	240	368	347
1924	392	395	352
1925	244	312	274
1926	451	437	421
1927	232	119	123
1928	204	460	598
1929	450	230	292
1930	160	434	357
1931	103	280	328
1932	206	134	112
1933	140	82.1	171
1934	143	155	97.2
1935	185.1	113.4	48.99
1936	131.9	119.8	64.21
1937	121.4	100.7	72.43
1938	144.3	75.97	71.37
1939	116.9	77.38	85.73
1940	88.29	89.56	81.12
1941	82.69	75	67.15
1942	50	19.09	70.82
1943	195.1	110.2	122.3
1944	333.6	284.3	262.5
1945	147.1	97.19	82.69
1946	194	361.8	367.1
1947	193.2	238.8	263.5
1948	213.1	180	259.6
1949	112.8	128.8	299
1950	213.6	117.9	157.9

a Only monthly figures re
‡ Not previously publishe
other Snake River stations.

Year	W.S.P. no.	Momen Discharge
1906	252	a27,900
1907	252	a35,300
1908	252	a33,000
1909	272	a41,100
1910	292	a31,800
1911	312	b37,600
1912	332	b36,600
1913	362	b35,500
1914	393	38,000
1915	413	17,400
1916	443	26,800
1917	463	37,700
1918	483	48,400
1919	513	14,900
1920	513	25,000
1921	533	32,200
1922	553	28,800
1923	573	23,000
1924	593	12,100
1925	613	26,800
1926	633	11,600
1927	653	33,800
1928	673	29,000
1929	693	14,500
1930	708	10,700

‡ Not previously publishe
a Maximum observed.

Yearly discharge, in cubic feet per second, of Cassia Creek near Conant, Idaho

Year	W.S.P. no.	Water year ending Sept. 30					Calendar year	
		Maximum observed		Minimum day	Mean	Runoff in acre-feet	Mean	Runoff in acre-feet
		Discharge	Date					
1910	292	188	Mar. 20, 1910	1.0	31.8	23,000	30.2	21,800
1911	312	94	Feb. 2, 1911	-	26.1	18,900	26.2	19,000
1912	332	358	May 30, 1912	-	-	-	-	-

SNAKE RIVER MAIN STEM

13081000

135. Lake Walcott near Minidoka, Idaho

Location.--Lat 42°40', long. 113°29', in sec. 1, T. 9 S., R. 25 E., on south wall in powerhouse at Minidoka Dam on Snake River, 6 miles southeast of Minidoka.

Drainage area.--15,700 sq mi, approximately.

Gage.--Staff gage and glass tubes connected to lake through pipes. Datum of gage is 4,200 ft above datum of Bureau of Reclamation, which is 49.52 ft below mean sea level. Prior to Feb. 1, 1941, hook gages at approximately same site at same datum.

Extremes.--1909-50: Maximum contents, 110,740 acre-ft Aug. 8, 1922 (gage height, 46.28 ft); minimum, -101,410 acre-ft Nov. 17, 1941 (gage height, 15.19 ft).

Remarks.--Reservoir is formed by rock-fill dam with concrete core; storage began in 1906. Capacity, 107,240 acre-ft between gage heights 36.00 ft (sill of powerhouse penstock) and 46.00 ft (top of flashboards). Contents represent storage above 36.0 ft. Dead storage, about 115,000 acre-ft. Water used for power development and irrigation on Minidoka project of Bureau of Reclamation.

Cooperation.--Gage-height record and capacity table furnished by Bureau of Reclamation.

Contents, in acre-feet, on last day of month

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1909	-	-	-	-	-	-	55,150	67,650	70,840	54,290	51,060	1,720
1910	5,910	38,920	-	-	-	-	-	-	-	80,160	34,360	37,260
1911	-	-	-	-	-	-	-	-	-	62,380	73,390	91,570
1912	50,630	a52,890	-	-	-	-	-	65,890	70,070	93,090	96,990	59,130
1913	13,700	8,580	a57,300	-	-	-	68,420	85,640	97,590	89,940	66,110	68,090
1914	-8,610	-	a6,200	53,000	53,970	53,540	66,220	77,680	96,870	79,480	54,830	92,970
1915	74,520	-	59,020	59,130	53,210	56,440	57,190	92,740	54,290	60,200	57,620	51,600
1916	a52,460	50,520	a50,000	49,470	51,600	55,470	63,480	58,910	71,720	86,330	96,510	89,710
1917	54,180	52,890	49,470	50,000	51,060	52,350	57,840	72,830	93,670	103,020	100,970	72,830
1918	64,250	86,330	86,100	84,120	83,770	85,290	80,610	98,320	100,010	92,510	102,170	91,230
1919	85,750	83,540	81,280	81,960	81,960	82,190	83,310	102,900	91,690	97,840	52,030	14,980
1920	47,360	79,820	80,950	82,410	80,950	88,900	93,900	100,730	102,900	102,900	103,020	92,860
1921	93,320	84,700	84,010	83,310	84,350	85,400	90,990	103,260	106,630	102,410	101,330	60,630
1922	81,740	85,400	84,940	81,960	82,410	86,800	88,200	93,090	107,240	104,700	107,990	51,060
1923	88,900	89,830	89,830	88,080	88,900	89,360	92,160	106,030	106,870	108,740	82,410	55,040
1924	90,530	90,060	89,940	87,730	89,360	87,150	93,670	51,170	88,660	76,440	10,030	-950
1925	83,310	89,940	a89,800	90,530	90,990	91,920	94,840	102,660	107,110	105,310	86,800	95,550
1926	97,720	95,180	89,130	88,780	90,060	99,400	99,040	108,360	106,270	104,220	50,850	13,600
1927	62,600	39,650	54,720	52,570	95,180	93,790	97,590	104,220	100,370	101,090	96,150	102,900
1928	92,860	96,030	91,690	91,810	93,440	93,320	93,900	97,720	96,270	93,670	91,570	91,690
1929	87,620	84,240	94,020	a82,000	86,450	40,800	54,610	92,740	87,620	95,310	90,880	102,660
1930	69,520	73,170	71,170	73,280	64,030	60,960	94,840	91,690	92,970	93,900	93,900	96,390
1931	60,630	71,390	69,410	55,040	39,550	76,440	93,090	96,150	91,810	95,670	35,920	17,060
1932	67,760	60,420	63,700	62,380	79,140	84,010	93,320	93,550	96,510	93,550	96,750	78,920
1933	69,080	37,060	66,550	67,100	66,770	64,360	78,020	91,690	93,090	94,720	94,720	83,540
1934	39,550	72,940	71,170	71,390	70,620	84,700	94,840	93,090	40,590	31,870	29,690	11,220
1935	21,670	62,820	62,160	64,800	61,830	86,220	95,910	97,350	94,370	94,250	49,260	22,490
1936	23,300	69,190	64,470	63,810	71,720	77,230	86,680	98,560	93,670	96,630	88,660	48,410
1937	27,260	47,570	60,420	62,160	62,160	68,310	95,430	95,430	95,180	95,550	94,370	50,520
1938	62,710	60,100	66,990	66,330	66,330	79,260	87,620	96,390	99,040	94,250	94,720	79,480
1939	71,170	66,220	66,550	68,750	71,610	74,970	95,910	94,250	95,910	96,510	95,310	76,770
1940	68,090	63,700	66,110	65,010	66,550	94,840	96,510	95,310	89,710	79,140	52,250	-900
1941	380	-2,890	-3,880	30,630	57,190	90,990	87,350	86,570	77,900	76,660	78,020	18,850
1942	-41,680	-98,900	-89,520	52,890	67,320	92,860	99,280	100,730	93,670	93,790	93,550	93,550
1943	77,230	59,990	9,730	15,580	11,120	33,320	58,480	74,290	92,270	93,790	85,870	42,710
1944	38,720	42,390	39,340	44,190	51,060	95,430	95,550	96,870	95,910	95,550	95,070	78,020
1945	64,140	65,670	67,870	66,660	66,660	89,010	94,720	94,950	96,390	96,870	95,670	91,460
1946	51,390	72,380	72,050	71,170	63,920	68,970	84,010	98,560	97,960	96,990	97,590	83,770
1947	70,290	72,260	65,670	74,290	67,210	67,870	90,290	95,430	99,280	98,320	95,430	94,950
1948	95,910	93,550	81,400	83,090	90,060	96,390	94,720	97,230	96,150	94,250	95,180	88,550
1949	90,640	91,690	93,090	78,020	79,260	86,570	88,900	93,550	96,150	96,870	93,550	95,310
1950	92,970	56,980	68,200	68,640	67,650	86,920	89,250	95,180	96,390	96,990	94,720	93,200

a Estimated or interpolated from nearest readings.
Note.--Gage heights only previously published prior to October 1917.

13080000

136. North Side Minidoka Canal near Minidoka, Idaho

Location.--Lat 42°40', long. 113°29', in sec. 1, T. 9 S., R. 25 E., 600 ft downstream from headgates on Snake River at Minidoka Dam and 6 miles south of Minidoka.

Gage.--Water-stage recorder. Datum of gage is 4,180.33 ft above mean sea level (Bureau of Reclamation benchmark). April to November 1910 at datum 0.08 ft higher.

Average discharge.--9 years (1941-50), 606 cfs.

Extremes.--1908-50: Maximum discharge, 1,780 cfs July 11, 1943; maximum gage height, 10.0 ft May 7, 1943; no flow during winters.

Remarks.--Canal diverts water from Snake River for irrigation of about 64,000 acres of land under North Side Minidoka Project. Diversion of water began in June 1907 and by the end of that month canal carried a flow of 700 cfs; no other record of flow in 1907 is available.

Cooperation.--Records prior to May 1909 and information of winter flow, 1910-29, furnished by Bureau of Reclamation.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1908	-	-	-	0	0	0	‡309	‡565	‡541	‡1,340	‡1,170	‡1,150	-
1909	‡503	0	0	0	0	0	‡209	559	1,040	1,060	979	814	‡433
1910	‡624	‡77.8	0	0	0	0	‡659	968	1,160	976	771	583	‡487
1911	‡598	‡70.8	0	0	0	0	363	941	1,190	1,150	1,050	765	‡513
1912	637	‡74.9	‡11.0	0	0	0	425	853	1,130	1,140	927	743	‡497
1913	452	‡16.8	‡16.3	0	0	0	‡289	1,066	1,029	1,091	1,147	884	‡503
1914	397	‡46.9	0	0	0	0	‡516	1,230	993	1,410	1,280	667	‡550
1915	‡248	0	0	0	0	0	928	840	1,320	1,400	1,170	594	‡544
1916	590	‡67.3	0	0	0	0	‡511	1,020	1,350	1,330	1,330	1,060	‡607
1917	‡134	0	0	0	0	0	‡33.7	770	1,390	1,480	1,420	982	‡520
1918	‡146	0	0	0	0	‡18.2	920	1,490	1,430	1,450	1,240	939	‡640
1919	‡174	‡61.0	0	0	0	0	530	1,480	1,480	1,210	895	768	‡552
1920	‡57.5	0	0	0	0	‡118	574	1,370	1,470	1,490	1,340	978	‡618
1921	‡46.7	0	0	0	0	‡115	624	1,170	1,160	1,480	1,390	1,160	‡599
1922	‡260	0	0	0	0	0	‡307	1,240	1,480	1,490	1,320	1,220	‡614
1923	‡546	0	0	0	0	‡45.6	537	1,290	1,260	1,420	1,250	1,090	‡625
1924	‡478	0	0	0	0	0	‡910	1,430	1,240	1,390	750	236	‡538
1925	282	‡161	‡35.3	0	0	‡210	928	1,360	1,330	1,450	1,340	917	‡672
1926	497	367	‡106	0	0	‡129	941	1,490	1,410	1,260	1,030	365	‡637
1927	346	395	‡142	0	0	‡91.5	488	1,290	1,410	1,520	1,370	968	‡673
1928	561	515	‡131	0	0	‡89.3	626	1,610	1,400	1,580	1,470	1,060	‡756
1929	549	303	‡47.9	0	0	0	‡271	1,270	1,380	1,570	1,400	1,020	‡655
1930	659	513	‡111	0	0	‡69.7	1,180	845	1,500	1,590	1,220	962	‡723
1931	453	297	0	0	0	44.2	769	1,300	1,470	1,570	915	287	596
1932	0	80.4	0	0	0	0	537	1,250	1,330	1,630	1,460	977	607
1933	555	418	81.7	0	0	0	620	1,310	1,590	1,580	1,500	954	721
1934	503	299	2.9	0	0	17.6	545	897	718	983	0	0	333
1935	743	42.9	0	0	0	107	535	948	1,361	1,555	1,305	934	632
1936	444	94.2	0	0	0	0	374	1,564	1,230	1,520	1,297	845	617
1937	471	278	83.3	0	0	0	302	1,381	1,263	1,578	1,365	900	640
1938	503	315	77.5	0	0	0	360	1,455	1,402	1,310	1,476	1,038	666
1939	439	284	94.0	0	0	0	877	1,528	1,298	1,552	1,417	905	704
1940	405	361	13.7	0	0	0	380	1,523	1,482	1,533	1,446	529	642
1941	365	9.7	0	0	0	0	249	1,469	1,238	1,542	1,289	785	584
1942	344	0	0	0	0	0	193	1,049	1,491	1,664	1,530	921	604
1943	401	0	115	0	0	0	168	1,597	1,025	1,686	1,487	930	624
1944	507	0	0	0	0	0	276	1,151	895	1,645	1,466	949	578
1945	559	62.2	0	0	0	0	122	1,233	1,199	1,638	1,493	915	607
1946	494	0	0	0	0	0	393	1,463	1,283	1,635	1,385	757	623
1947	288	0	0	0	0	0	550	1,537	918	1,662	1,428	860	609
1948	458	0	0	0	0	0	216	1,427	1,384	1,638	1,404	843	618
1949	186	0	0	0	0	0	500	1,387	1,319	1,590	1,313	842	599
1950	271	0	0	0	0	0	266	1,352	1,204	1,666	1,401	877	591

‡ Not previously published; partly estimated on the basis of data furnished by Bureau of Reclamation.

Monthly and yearly runoff, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1908	-	-	-	0	0	0	‡18,400	‡34,700	‡32,200	‡82,100	‡71,900	‡68,200	-
1909	‡30,900	0	0	0	0	0	‡12,400	34,400	61,900	65,200	60,200	48,400	‡313,000
1910	‡38,400	‡4,630	0	0	0	0	‡39,200	59,500	69,000	60,000	47,400	34,700	‡353,000
1911	‡36,800	‡4,200	0	0	0	0	21,600	57,900	70,800	70,700	64,600	45,500	‡372,000
1912	39,200	‡4,460	‡678	0	0	0	25,300	52,400	67,200	70,100	57,000	44,200	‡361,000
1913	27,800	‡1,000	‡1,000	0	0	0	17,200	65,400	61,100	67,000	70,400	52,600	‡364,000
1914	24,400	2,780	0	0	0	0	30,700	75,500	59,000	86,800	78,600	39,600	‡397,000
1915	15,200	0	0	0	0	0	55,200	51,600	78,600	86,100	71,900	35,300	‡394,000
1916	36,300	‡4,000	0	0	0	0	30,400	62,700	80,300	81,800	81,800	63,100	‡440,000
1917	8,260	0	0	0	0	0	2,000	46,900	82,500	91,000	87,200	58,300	‡376,000
1918	9,000	0	0	0	0	‡1,120	54,700	91,600	85,100	89,200	76,200	55,900	‡463,000
1919	10,700	3,620	0	0	0	0	31,500	91,000	88,100	74,400	55,000	45,700	‡400,000
1920	3,530	0	0	0	0	7,270	34,200	84,200	87,500	91,600	82,400	58,200	‡449,000

‡ Not previously published; see footnote to preceding table.

Monthly and yearly runoff, in acre-feet, of North Side Minidoka Canal near Minidoka, Idaho--Continued

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1921	2,870	0	0	0	0	7,090	37,100	71,900	69,000	91,000	85,500	69,000	‡433,000
1922	16,000	0	0	0	0	0	18,300	76,200	88,100	91,600	81,200	72,600	‡444,000
1923	33,600	0	0	0	0	2,810	32,000	79,300	75,000	87,300	76,900	64,900	‡452,000
1924	29,400	0	0	0	0	0	54,300	87,900	73,800	85,500	46,100	14,000	‡391,000
1925	17,300	‡9,590	‡2,170	0	0	12,900	55,200	83,600	79,100	89,200	82,400	54,600	‡486,000
1926	30,600	21,800	‡6,530	0	0	7,930	56,000	91,600	83,900	77,500	63,300	21,700	‡461,000
1927	21,300	23,500	8,720	0	0	5,640	29,000	79,300	83,900	93,500	84,200	57,600	‡487,000
1928	34,500	30,600	8,070	0	0	5,500	37,200	99,000	83,300	97,200	90,400	63,100	‡549,000
1929	33,800	18,000	‡2,940	0	0	0	16,100	78,100	82,100	96,500	86,100	60,700	‡474,000
1930	40,500	30,500	6,830	0	0	4,290	70,200	52,000	89,300	97,800	75,000	57,200	‡524,000
1931	27,900	17,700	0	0	0	2,720	45,800	79,900	87,500	96,500	56,300	17,100	431,000
1932	0	4,780	0	0	0	0	32,000	76,900	79,100	100,000	89,800	58,100	441,000
1933	34,100	24,900	5,020	0	0	0	36,900	80,600	94,600	97,200	92,200	56,800	522,000
1934	30,900	17,800	178	0	0	1,080	32,400	55,200	42,700	60,400	0	0	241,000
1935	45,660	2,550	0	0	0	6,590	31,860	58,310	81,020	95,600	80,210	55,570	457,400
1936	27,310	5,610	0	0	0	0	22,280	96,180	73,160	93,480	79,740	50,260	448,000
1937	28,950	16,520	5,120	0	0	0	17,990	84,920	75,140	97,030	83,900	53,560	463,100
1938	30,940	18,760	4,770	0	0	0	21,440	89,450	83,400	80,520	90,780	61,750	481,800
1939	26,980	16,900	5,780	0	0	0	52,160	93,940	77,210	95,400	87,150	53,850	509,400
1940	24,920	21,450	841	0	0	0	22,590	93,650	88,190	94,230	88,940	31,460	466,300
1941	22,430	579	0	0	0	0	14,800	90,330	73,660	94,790	79,260	46,730	422,600
1942	21,160	0	0	0	0	0	11,470	64,500	88,720	102,300	94,060	54,800	437,000
1943	24,670	0	7,100	0	0	0	9,970	98,220	60,980	103,700	91,460	55,330	451,400
1944	31,190	0	0	0	0	0	16,430	70,750	53,260	101,200	90,170	56,460	419,500
1945	34,360	3,700	0	0	0	0	7,250	75,820	71,360	100,700	91,800	54,440	439,400
1946	30,360	0	0	0	0	0	23,360	89,970	76,330	100,500	85,190	45,020	450,700
1947	17,720	0	0	0	0	0	32,710	94,490	54,640	102,170	87,790	51,170	440,700
1948	28,150	0	0	0	0	0	12,860	87,750	82,350	100,700	86,320	50,190	448,300
1949	11,420	0	0	0	0	0	29,730	85,310	78,510	97,670	80,690	50,130	433,500
1950	16,660	0	0	0	0	0	15,840	83,100	71,620	102,500	86,140	52,170	428,000

‡ Not previously published; partly estimated on the basis of data furnished by Bureau of Reclamation.

Yearly discharge, in cubic feet per second

Year	W.S.P. no.	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Runoff in acre-feet	Mean	Runoff in acre-feet
		Discharge	Date					
1908	-	a1,410	(b)	0	-	-	‡467	‡338,000
1909	272	a1,220	(b)	0	‡433	‡313,000	‡450	‡326,000
1910	292	c1,200	July13-16,1910	0	‡487	‡353,000	‡484	‡351,000
1911	312	c1,220	(b)	0	‡513	‡372,000	‡518	‡375,000
1912	332	c1,190	(b)	0	‡497	‡361,000	‡477	‡346,000
1913	362	c1,420	July 24, 1913	0	‡503	‡364,000	‡499	‡361,000
1914	393	1,520	(b)	0	‡550	‡397,000	‡533	‡385,000
1915	413	1,490	July 5, 1915	0	‡544	‡394,000	‡579	‡419,000
1916	443	1,490	June17,21,1916	0	‡607	‡440,000	‡563	‡408,000
1917	463	1,500	Aug. 8, 1917	0	‡520	‡376,000	‡521	‡377,000
1918	483	1,500	(b)	0	‡640	‡463,000	‡647	‡468,000
1919	513	1,490	(b)	0	‡552	‡400,000	‡537	‡389,000
1920	513	1,490	(b)	0	‡618	‡449,000	‡617	‡448,000
1921	533	1,500	(b)	0	‡599	‡433,000	‡617	‡447,000
1922	553	1,500	July 23, 1922	0	‡614	‡444,000	‡638	‡462,000
1923	573	1,500	June 19, 1923	0	‡625	‡452,000	‡619	‡448,000
1924	593	1,510	May 22, 1924	0	‡538	‡391,000	‡538	‡391,000
1925	613	1,510	July 19, 1925	0	‡672	‡486,000	‡713	‡516,000
1926	633	1,500	June 8, 1926	0	‡637	‡461,000	‡629	‡455,000
1927	653	1,590	(b)	0	‡673	‡487,000	‡700	‡506,000
1928	673	1,630	June 2, 1928	0	‡756	‡549,000	‡730	‡530,000
1929	693	1,600	July 29, 1929	0	‡655	‡474,000	‡687	‡497,000
1930	708	1,620	(b)	0	‡723	‡524,000	678	491,000
1931	723	1,600	(b)	0	596	431,000	540	391,000
1932	738	1,670	July 11, 1932	0	607	441,000	689	500,000
1933	753	c1,620	(b)	0	721	522,000	700	507,000
1934	768	1,150	July 31, 1934	0	333	241,000	332	240,000
1935	793	1,600	(b)	0	632	457,400	611	442,100
1936	813	1,650	July3-9, 1936	0	617	448,000	641	465,700
1937	833	1,650	(b)	0	640	463,100	645	467,000
1938	863	1,680	(b)	0	666	481,800	659	477,000
1939	883	1,670	Apr. 28, 1939	0	704	509,400	700	506,900
1940	903	1,660	May 30, 1940	0	642	466,300	609	442,100
1941	933	1,610	(b)	0	584	422,600	581	420,700
1942	963	1,720	July8-16,1942	0	604	437,000	618	447,600
1943	983	1,780	July 11, 1943	0	624	451,400	623	450,800
1944	1013	1,700	(b)	0	578	419,500	587	426,300
1945	1043	1,700	(b)	0	607	439,400	596	431,700
1946	1063	1,700	July 13, 1946	0	623	450,700	605	438,100
1947	1093	1,740	July3-5, 1947	0	609	440,700	623	451,100
1948	1123	1,720	May 18, 1948	0	618	448,300	595	431,600
1949	1153	1,670	May 16, 1949	0	599	433,500	606	438,700
1950	1183	1,710	July 7, 1950	0	591	428,000	601	435,400

‡ Not previously published.

13080500

137. South Side Minidoka Canal near Minidoka, Idaho

Location.--Lat 42°40', long. 113°29', in sec. 12, T. 9 S., R. 25 E., 900 ft downstream from headgates on Snake River at Minidoka dam and 6 miles south of Minidoka.

Gage.--Water-stage recorder. Datum of gage is 4,184 ft (Bureau of Reclamation bench mark). Prior to 1910 at site 600 ft upstream at same datum.

Average discharge.--9 years (1941-50), 466 cfs.

Extremes.--1909-50: Maximum discharge, 1,400 cfs several days in 1948 and 1950 (gage height, 6.04 ft); no flow during winters.

Remarks.--Canal diverts water from Snake River for irrigation of about 54,000 acres of land under South Side Minidoka Project. Diversion began in April 1908.

Cooperation.--Records prior to April 1909 and information of winter flow, 1910-29, furnished by Bureau of Reclamation.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1908	-	-	-	-	-	-	‡58.8	‡70.3	‡76.1	‡141	‡118	‡40.0	‡42.2
1909	0	0	0	0	0	0	‡21.2	‡89.4	148	227	224	‡157	‡72.7
1910	‡78.1	0	0	0	0	0	‡77.8	260	466	411	282	*180	‡147
1911	‡95.4	0	0	0	0	0	182	295	538	649	567	410	‡229
1912	226	‡12.2	0	0	0	0	‡92.8	299	580	727	507	357	‡234
1913	311	‡86.6	0	0	0	0	‡133	452	556	690	686	587	‡294
1914	‡108	0	0	0	0	0	‡41.5	636	703	895	788	513	‡310
1915	207	0	0	0	0	0	453	447	760	866	774	541	‡339
1916	345	‡64.5	0	0	0	0	‡139	652	799	920	845	658	‡370
1917	262	‡60.1	0	0	0	0	0	‡231	883	981	949	652	‡337
1918	‡243	0	0	0	0	0	‡97.9	833	969	986	852	678	‡391
1919	‡187	0	0	0	0	0	‡19.7	812	955	846	651	474	‡331
1920	‡148	0	0	0	0	‡11.4	240	752	959	995	946	667	‡395
1921	‡168	0	0	0	0	0	‡68.3	520	747	1,050	928	513	‡336
1922	‡196	0	0	0	0	0	0	‡436	966	1,040	818	704	‡348
1923	‡154	0	0	0	0	0	0	680	777	1,010	892	753	‡358
1924	‡123	0	0	0	0	0	‡391	900	745	880	625	230	‡326
1925	184	‡72.7	0	0	0	‡15.7	452	802	928	1,030	929	560	‡417
1926	297	‡169	0	0	0	0	‡468	1,040	1,020	1,000	840	346	‡435
1927	254	‡247	0	0	0	0	‡124	728	943	1,050	991	733	‡425
1928	371	‡19.1	0	0	0	0	‡105	930	969	1,070	1,060	799	‡446
1929	360	‡104	0	0	0	0	0	‡725	1,050	1,010	1,070	789	‡428
1930	‡204	0	0	0	0	0	670	500	1,070	1,090	907	804	‡438
1931	139	0	0	0	0	0	306	1,020	1,140	1,150	871	493	430
1932	204	0	0	0	0	0	47.3	775	1,030	1,190	1,120	888	440
1933	236	0	0	0	0	0	561	782	1,190	1,200	1,170	885	505
1934	338	0	0	0	0	0	178	685	478	655	594	209	264
1935	436	353	0	0	0	0	18.8	692	1,103	1,239	1,196	867	495
1936	282	130	24.1	0	0	0	56.1	1,190	922	1,227	1,138	819	485
1937	304	172	6.7	0	0	0	3.6	976	921	1,292	1,178	705	467
1938	279	200	17.6	0	0	0	171	934	1,041	1,041	1,241	861	485
1939	249	106	0	0	0	0	414	1,141	895	1,124	1,164	721	488
1940	216	18.3	0	0	0	0	203	1,121	1,143	1,282	1,138	310	455
1941	212	45.6	0	0	0	0	92.3	1,000	860	1,212	1,126	719	441
1942	178	0	0	0	0	0	57.9	371	1,113	1,282	1,238	774	420
1943	331	0	0	0	0	0	383	1,045	744	1,271	1,234	799	488
1944	309	0	0	0	0	0	0	722	537	1,276	1,248	838	414
1945	329	35.5	0	0	0	0	0	733	859	1,258	1,229	807	441
1946	349	0	0	0	0	0	116	1,048	1,010	1,285	1,210	630	475
1947	135	0	0	0	0	0	291	1,132	638	1,293	1,232	844	468
1948	271	0	0	0	0	0	185	1,053	1,142	1,311	1,226	742	497
1949	199	0	0	0	0	0	396	874	1,106	1,253	1,181	772	485
1950	221	0	0	0	0	0	306	1,093	1,076	1,324	1,215	749	502

* Revised.
‡ Not previously published; partly estimated on the basis of data furnished by Bureau of Reclamation.

Monthly and yearly runoff, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1908	-	-	-	-	-	-	‡3,490	‡4,320	‡4,520	‡8,650	‡7,220	‡2,380	‡30,800
1909	0	0	0	0	0	0	‡1,260	‡5,500	8,810	14,000	13,800	‡9,330	‡52,700
1910	‡4,800	0	0	0	0	0	‡4,630	16,000	27,700	25,300	17,300	*10,700	‡106,000
1911	‡5,860	0	0	0	0	0	10,800	18,100	32,000	39,900	34,900	24,400	‡166,000
1912	13,900	‡724	0	0	0	0	‡5,540	18,400	34,500	44,700	31,200	21,200	‡170,000
1913	19,100	‡5,150	0	0	0	0	‡7,890	27,700	33,000	42,400	42,100	34,900	‡212,000
1914	‡6,650	0	0	0	0	0	‡2,460	39,000	41,800	54,900	48,400	30,500	‡224,000
1915	12,700	0	0	0	0	0	27,000	27,500	45,200	53,200	47,600	32,200	‡245,000
1916	21,200	‡3,840	0	0	0	0	‡8,250	40,100	47,500	56,600	52,000	39,200	‡269,000
1917	16,100	‡3,580	0	0	0	0	0	‡14,200	52,400	60,200	58,300	38,700	‡243,000
1918	‡14,900	0	0	0	0	0	‡5,830	51,200	57,700	60,600	52,400	40,300	‡283,000
1919	‡11,500	0	0	0	0	0	‡1,170	49,900	56,800	52,000	40,000	28,200	‡240,000
1920	‡9,120	0	0	0	0	‡698	14,300	46,200	57,100	61,200	58,200	39,700	‡287,000

* Revised.
‡ Not previously published; see footnote to preceding table.

Monthly and yearly runoff, in acre-feet, of South Side Minidoka Canal near Minidoka, Idaho--Continued

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1921	‡10,400	0	0	0	0	0	‡4,070	32,000	44,400	64,600	57,100	30,500	‡243,000
1922	‡12,000	0	0	0	0	0	0	‡26,800	57,500	64,000	50,300	41,900	‡252,000
1923	‡9,470	0	0	0	0	0	0	41,800	46,200	62,100	54,800	44,800	‡259,000
1924	‡7,530	0	0	0	0	0	‡23,300	55,300	44,300	54,100	38,400	13,700	‡237,000
1925	11,300	‡4,330	0	0	0	‡964	26,900	49,300	55,200	63,300	57,100	33,300	‡302,000
1926	18,300	10,100	0	0	0	0	27,800	64,000	60,700	61,500	51,600	20,600	‡315,000
1927	15,600	‡14,700	0	0	0	0	‡7,380	44,800	56,100	64,600	60,900	43,600	‡308,000
1928	22,800	‡1,130	0	0	0	0	‡6,220	57,200	57,700	65,800	65,200	47,500	‡324,000
1929	22,100	‡6,220	0	0	0	0	0	‡44,500	62,500	62,100	65,800	46,900	‡310,000
1930	‡12,500	0	0	0	0	0	39,900	30,700	63,700	67,000	55,800	47,800	‡317,000
1931	8,550	0	0	0	0	0	18,200	62,700	67,800	70,700	53,600	29,300	311,000
1932	12,500	0	0	0	0	0	2,810	47,700	61,300	73,200	68,900	52,800	319,000
1933	14,500	0	0	0	0	0	33,400	48,100	70,800	73,800	71,900	52,700	365,000
1934	20,800	0	0	0	0	0	10,600	42,100	28,400	40,300	36,500	12,400	191,000
1935	26,830	20,990	0	0	0	0	1,120	42,560	65,660	76,200	73,530	51,570	358,500
1936	17,340	7,750	1,500	0	0	0	3,340	73,180	54,840	75,430	69,990	48,750	352,100
1937	18,680	10,210	413	0	0	0	216	59,990	54,820	79,420	72,420	41,940	338,100
1938	17,150	11,930	1,080	0	0	0	10,200	57,430	61,950	64,010	76,300	51,210	351,300
1939	15,340	6,320	0	0	0	0	24,630	70,140	53,260	69,120	71,600	42,880	353,300
1940	13,300	1,090	0	0	0	0	12,090	68,900	68,020	78,820	69,980	18,450	330,600
1941	13,040	2,710	0	0	0	0	5,490	61,460	51,140	74,530	69,230	42,770	320,400
1942	10,920	0	0	0	0	0	3,450	22,780	66,250	78,800	76,150	46,050	304,400
1943	20,350	0	0	0	0	0	22,820	64,270	44,260	78,150	75,890	47,560	353,300
1944	19,020	0	0	0	0	0	0	44,390	31,960	78,450	76,760	49,890	300,500
1945	20,230	2,110	0	0	0	0	0	45,040	51,120	77,350	75,570	48,030	319,400
1946	21,480	0	0	0	0	0	6,890	64,440	60,100	79,020	74,430	37,490	343,800
1947	8,300	0	0	0	0	0	17,310	69,600	37,950	79,520	75,730	50,250	338,700
1948	16,680	0	0	0	0	0	11,030	64,720	67,960	80,610	75,390	44,160	360,600
1949	12,250	0	0	0	0	0	23,550	53,730	65,830	77,060	72,600	45,940	351,000
1950	13,570	0	0	0	0	0	18,180	67,220	64,040	81,380	74,680	44,570	363,600

‡ Not previously published; partly estimated on the basis of data furnished by Bureau of Reclamation.

Yearly discharge, in cubic feet per second

Year	W.S.P. no.	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Runoff in acre-feet	Mean	Runoff in acre-feet
		Discharge	Date					
1908	-	a153	(b)	0	‡42.2	‡30,600	‡42.2	‡30,600
1909	272	a243	July 1, 1909	0	‡72.7	‡52,700	‡79.3	‡57,500
1910	292,1347	a486	June 15, 1910	0	‡147	‡106,000	‡149	‡107,000
1911	312	a734	July 21, 1911	0	‡229	‡166,000	‡241	‡175,000
1912	332	a807	July 27, 1912	0	‡234	‡170,000	‡248	‡180,000
1913	362	a848	July 25, 1913	0	‡294	‡212,000	‡269	‡195,000
1914	393	a932	July 6, 1914	0	‡310	‡224,000	‡318	‡230,000
1915	413	938	June 25, 1915	0	‡339	‡245,000	‡356	‡258,000
1916	443	1,010	July 24, 1916	0	‡370	‡269,000	‡363	‡263,000
1917	463	1,060	Aug. 7, 1917	0	‡337	‡243,000	‡330	‡239,000
1918	483	1,060	July21,22,1918	0	‡391	‡283,000	‡386	‡280,000
1919	513	1,020	July4,9, 1919	0	‡331	‡240,000	‡328	‡237,000
1920	513	1,060	July 23, 1920	0	‡395	‡287,000	‡396	‡288,000
1921	533	1,100	July15-18,1921	0	‡336	‡243,000	‡338	‡245,000
1922	553	1,050	July3-5, 1922	0	‡348	‡252,000	‡345	‡250,000
1923	573	1,070	July 20, 1923	0	‡358	‡259,000	‡355	‡257,000
1924	593	973	May 29, 1924	0	‡326	‡237,000	‡337	‡245,000
1925	613	1,090	July 2, 1925	0	‡417	‡302,000	‡435	‡314,000
1926	633	1,060	(b)	0	‡435	‡315,000	‡437	‡316,000
1927	653	1,080	July 11, 1927	0	‡425	‡308,000	‡416	‡301,000
1928	673	1,110	July 27, 1928	0	‡446	‡324,000	‡452	‡328,000
1929	693	1,110	Aug. 7, 1929	0	‡428	‡310,000	‡406	‡294,000
1930	708	1,140	June 4, 1930	0	‡438	‡317,000	433	313,000
1931	723	1,170	(b)	0	430	311,000	435	315,000
1932	738	1,240	(b)	0	440	319,000	442	321,000
1933	753	1,240	(b)	0	505	365,000	‡513	372,000
1934	768	825	Aug.8,9, 1934	0	264	191,000	301	218,100
1935	793	1,300	(b)	0	495	358,500	466	337,200
1936	813	1,320	July 22, 1936	0	485	352,100	489	354,800
1937	833	1,340	July28-30,1937	0	467	338,100	468	339,000
1938	863	1,350	(b)	0	485	351,300	473	342,800
1939	883	1,270	(b)	0	488	353,300	478	346,000
1940	903	1,350	July9-11,1940	0	455	330,600	457	332,000
1941	933	1,300	Aug. 26, 1941	0	441	320,400	436	315,500
1942	963	1,340	June 9, 1942	0	420	304,400	433	313,800
1943	983	1,330	July 8, 1943	0	488	353,300	486	352,000
1944	1013	1,320	(b)	0	414	300,500	418	303,800
1945	1043	1,360	July 11, 1945	0	441	319,400	440	318,600
1946	1063	1,330	May 5, 1946	0	475	343,800	457	330,700
1947	1093	1,340	May 27, 1947	0	468	338,700	479	347,000
1948	1123	1,400	(b)	0	497	360,600	491	356,100
1949	1153	1,380	Apr. 29, 1949	0	485	351,000	487	352,300
1950	1183	1,400	July3,25,1950	0	502	363,600	512	370,700

‡ Not previously published.
a Maximum daily.
b Several days during water year.

13081500 138. Snake River near Minidoka, Idaho 1/

Location.--Lat 42°40', long. 113°30', in sec. 2, T. 9 S., R. 25 E., 1 mile downstream from Minidoka Dam and 6 miles south of Minidoka.

Drainage area.--15,700 sq mi, approximately.

Gage.--Water-stage recorder. Altitude of gage is 4,132.2 ft (from river-profile survey). Prior to Aug. 28, 1911, staff gages at same site and datum.

Average discharge.--24 years (1926-50), 5,449 cfs.

Extremes.--1910-50: Maximum discharge, 45,900 cfs June 21, 1918 (gage height, 16.02 ft); minimum, 59 cfs Nov. 18, 1936 (gage height, 1.56 ft).

Remarks.--Many diversions for irrigation upstream. Regulation by several lakes and reservoirs having a combined usable capacity of about 3,300,000 acre-ft.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1910	-	-	-	-	-	-	-	-	-	4,540	2,290	3,110	-
1911	4,050	6,070	*5,920	6,710	7,660	7,790	7,390	16,800	26,800	10,800	3,620	3,860	*8,940
1912	6,220	7,000	6,690	7,230	6,610	6,130	6,610	15,100	28,000	14,500	8,730	11,800	10,400
1913	10,400	9,140	5,950	5,940	6,110	6,880	11,600	19,800	26,000	13,300	6,150	8,730	10,800
1914	9,660	8,450	7,080	6,520	6,630	7,320	11,800	18,800	21,800	6,770	4,330	4,960	9,510
1915	8,270	7,660	5,900	6,430	6,450	6,080	6,800	7,380	8,090	3,410	2,340	2,760	5,960
1916	5,380	5,760	5,680	5,430	5,960	7,360	11,400	16,400	16,100	9,970	6,200	5,410	8,420
1917	8,010	6,900	6,060	5,250	5,820	5,980	8,680	19,800	26,200	18,500	6,320	6,250	10,300
1918	6,990	6,880	7,280	6,760	5,980	6,660	7,860	10,800	30,400	10,300	7,310	5,950	9,430
1919	6,420	6,750	5,970	5,380	5,810	6,530	8,690	7,870	5,220	2,990	2,070	2,150	5,480
1920	3,290	4,800	4,350	4,570	5,010	4,630	5,060	14,200	11,700	6,440	4,980	3,380	6,050
1921	5,360	6,900	6,190	6,020	6,220	6,640	7,960	19,900	21,600	6,610	4,990	4,480	8,580
1922	4,230	5,920	6,450	4,920	5,260	6,550	7,300	17,500	14,000	6,650	5,310	3,640	7,320
1923	2,770	6,350	5,940	6,150	5,180	5,800	6,800	13,200	13,200	7,240	5,580	3,590	6,820
1924	5,320	6,620	5,960	5,060	6,300	5,290	4,600	4,320	3,370	3,080	2,460	2,450	4,560
1925	2,150	4,860	4,390	3,810	5,820	5,380	10,400	17,200	12,400	10,300	5,640	4,880	7,270
1926	6,530	6,860	6,950	5,660	6,480	6,450	6,810	4,960	5,590	4,580	3,280	3,030	5,590
1927	2,450	1,900	1,840	3,970	2,500	2,220	2,540	8,790	18,000	12,300	6,470	5,460	5,710
1928	2,500	7,360	10,000	8,070	7,920	7,740	7,590	22,300	12,300	6,950	6,540	5,130	8,710
1929	6,730	3,740	4,640	3,570	3,330	5,800	10,600	7,490	6,710	6,670	6,450	5,270	5,930
1930	2,290	6,880	5,830	6,850	3,580	1,910	4,970	4,500	6,330	7,140	5,750	3,940	5,000
1931	1,860	4,200	5,370	2,680	2,010	1,950	3,110	7,100	6,360	7,000	6,800	3,020	4,310
1932	2,310	2,380	1,920	1,960	2,390	1,850	2,100	5,910	6,560	8,400	8,000	5,740	4,140
1933	1,810	1,700	2,450	2,100	2,240	1,850	3,130	6,550	7,840	7,970	8,050	5,740	4,300
1934	2,260	1,370	1,620	1,620	1,590	1,790	3,460	5,690	5,960	5,980	5,190	3,280	3,330
1935	1,685	888	989	1,316	999	834	1,015	6,158	7,508	7,985	6,925	4,330	3,405
1936	1,492	1,122	1,237	1,150	740	669	1,986	11,980	13,760	8,218	7,891	5,051	4,620
1937	1,725	984	986	1,669	1,061	1,763	4,990	8,946	7,014	8,496	8,155	4,962	4,252
1938	1,351	884	1,051	1,087	957	1,007	7,933	11,930	13,080	12,110	7,949	6,059	5,470
1939	1,379	1,120	1,422	2,992	4,275	6,395	8,330	8,496	7,575	8,233	8,105	5,043	5,286
1940	1,036	1,307	1,375	1,244	1,235	921	3,889	7,401	8,043	8,238	7,870	4,433	3,925
1941	1,038	1,476	1,364	1,344	1,339	892	3,329	7,445	6,829	8,123	7,868	5,147	3,866
1942	1,533	1,773	1,318	1,446	2,014	1,621	6,822	8,704	7,104	8,437	8,502	6,127	4,629
1943	2,634	2,343	3,147	3,114	5,483	6,522	12,390	9,773	19,420	12,580	8,641	6,260	7,683
1944	4,875	4,865	4,404	3,790	1,621	4,457	6,686	7,035	12,000	8,854	8,467	6,056	6,103
1945	1,788	1,709	1,571	2,784	2,824	2,907	4,446	9,309	12,650	9,040	8,443	5,696	5,275
1946	3,095	6,063	6,286	7,048	6,278	6,313	12,620	9,323	11,760	8,490	8,349	5,124	7,559
1947	3,149	4,187	4,519	4,932	4,725	2,070	5,121	10,140	14,920	8,673	8,446	5,816	6,393
1948	2,662	3,168	4,510	4,340	3,330	2,661	7,929	13,710	16,890	8,778	8,606	5,963	6,880
1949	1,508	2,281	5,000	8,215	7,151	6,521	5,478	8,197	9,969	8,861	8,767	5,979	6,325
1950	3,094	2,945	2,743	3,512	4,454	5,707	11,000	12,450	16,660	13,540	8,810	7,038	7,669

* Revised.

Monthly and yearly runoff, in thousands of acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1910	-	-	-	-	-	-	-	-	-	279	141	185	-
1911	249	361	*364	413	425	479	440	1,030	1,590	664	223	230-	*6,468
1912	382	417	411	445	380	377	393	928	1,670	892	537	702	7,534
1913	640	544	366	365	339	423	690	1,220	1,550	818	378	519	7,852
1914	594	503	435	401	368	450	702	1,160	1,300	416	266	295	6,890
1915	508	456	363	395	358	374	405	454	481	210	144	164	4,312
1916	331	343	349	334	343	453	678	1,010	958	613	381	322	6,115
1917	493	411	373	323	323	368	516	1,220	1,560	1,140	389	372	7,488
1918	430	409	448	416	332	410	468	664	1,810	633	449	354	6,823
1919	395	402	367	331	323	402	517	484	311	184	127	128	3,971
1920	202	286	267	281	288	285	301	873	696	396	306	201	4,382

* Revised.

1/ Published as Snake River below Minidoka Dam at Howells Ferry, 1910, and Snake River at Howells Ferry, near Minidoka, 1911. Records collected at station of same name for 1904-10 are not equivalent and are published in this report as Snake River at Montgomery Ferry, near Minidoka, Idaho.

Monthly and yearly runoff, in thousands of acre-feet, of Snake River near Minidoka, Idaho--Continued

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1921	330	411	381	370	345	408	474	1,220	1,290	406	307	267	6,209
1922	260	352	397	303	292	403	434	1,080	833	409	326	217	5,306
1923	170	378	365	378	288	357	405	812	786	445	343	214	4,941
1924	327	394	366	311	362	325	274	266	201	189	151	146	3,312
1925	132	289	270	234	323	331	619	1,060	738	633	347	290	5,266
1926	402	408	427	348	360	397	405	305	333	282	202	180	4,049
1927	151	113	113	244	139	136	151	540	1,070	756	398	325	4,136
1928	154	438	615	496	456	476	452	1,370	732	427	402	305	6,323
1929	414	223	285	220	185	357	631	461	399	410	397	314	4,296
1930	141	409	358	421	199	117	296	277	377	439	354	234	3,622
1931	114	250	330	165	112	120	185	437	378	430	418	180	3,119
1932	142	142	118	121	137	114	125	363	390	516	492	342	3,002
1933	111	101	151	129	124	114	186	403	467	490	495	342	3,113
1934	139	81.5	99.6	99.6	88.3	110	206	350	355	368	319	195	2,411
1935	103.6	52.84	60.81	80.95	55.46	51.29	60.41	378.6	446.7	491	425.8	257.7	2,465
1936	91.76	66.76	76.09	70.74	42.58	41.16	118.2	736.8	818.8	505.3	485.2	300.6	3,354
1937	106	58.55	60.64	102.6	58.91	108.4	296.9	550.1	417.3	522.4	501.4	295.2	3,078
1938	83.07	52.57	64.63	66.85	53.14	61.95	472	733.4	778.3	744.6	488.8	360.5	3,960
1939	84.79	66.67	87.42	183.9	237.4	393.2	495.7	522.4	450.8	506.2	498.4	300.1	3,827
1940	63.7	77.76	84.52	76.48	71.02	56.63	231.4	455.1	478.6	506.5	483.9	263.8	2,849
1941	63.8	87.82	83.88	82.63	74.38	54.84	198.1	457.8	406.3	499.5	483.8	306.2	2,799
1942	94.28	105.5	81.04	88.94	111.8	99.69	405.9	535.2	422.7	518.8	522.7	364.6	3,351
1943	162	139.4	193.5	191.4	304.5	401	737	600.9	1,155	773.6	531.3	372.5	5,562
1944	299.7	289.5	270.8	233	93.22	274	397.8	432.5	714.2	544.4	520.6	360.3	4,430
1945	109.9	101.7	96.61	171.2	156.9	178.8	264.5	572.4	753	556.1	519.2	338.9	3,819
1946	190.3	360.8	386.5	433.4	348.6	388.1	751	573.2	699.9	522	513.4	304.9	5,472
1947	193.6	249.1	277.9	303.3	262.4	127.3	304.7	623.9	887.7	533.3	519.3	346.1	4,629
1948	163.7	188.5	277.3	266.9	191.5	163.6	471.8	843.1	1,005	539.7	529.2	354.8	4,995
1949	92.75	135.7	307.4	382.1	397.2	400.9	326	504	593.2	544.9	539.1	355.8	4,579
1950	190.2	175.2	168.7	215.9	247.4	350.9	654.5	765.6	991.1	832.3	541.5	418.8	5,552

Yearly discharge, in cubic feet per second

Year	W.S.P. no.	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Runoff in acre-feet	Mean	Runoff in acre-feet
		Discharge	Date					
1910	292	a26,400	May 1,2, 1910	1,940	-	-	-	-
1911	312,1347	a33,800	June 25, 1911	*2,270	*8,940	*6,468,000	9,270	6,704,000
1912	332	34,300	June 18, 1912	3,880	10,400	7,534,000	10,800	7,874,000
1913	362	32,800	(b)	3,080	10,800	7,852,000	10,800	7,834,000
1914	393	36,400	June 8, 1914	2,710	9,510	6,890,000	9,230	6,685,000
1915	413	21,800	Nov. 15, 1914	1,880	5,960	4,312,000	5,540	4,008,000
1916	443	24,200	May 11, 1916	3,280	8,420	6,115,000	8,770	6,369,000
1917	463	34,900	June 24, 1917	4,310	10,300	7,488,000	10,400	7,498,000
1918	483	45,900	June 21, 1918	4,160	9,430	6,823,000	9,250	6,700,000
1919	513	14,200	May 2, 1919	1,700	5,480	3,971,000	4,920	3,562,000
1920	513	22,200	May 22, 1920	1,760	6,050	4,382,000	6,540	4,749,000
1921	533	32,900	June 2, 1921	2,670	8,580	6,209,000	8,420	6,096,000
1922	553	28,300	May 25, 1922	2,140	7,320	5,306,000	7,190	5,210,000
1923	573	21,600	May 29, 1923	1,740	6,820	4,941,000	7,070	5,115,000
1924	593	7,780	Oct. 28, 1923	1,730	4,560	3,312,000	4,020	2,916,000
1925	613	24,900	May 25, 1925	1,770	7,270	5,266,000	8,030	5,812,000
1926	633	8,990	Apr.18,20,1926	2,140	5,590	4,049,000	4,400	3,189,000
1927	653	32,100	July 3, 1927	1,110	5,710	4,136,000	6,860	4,966,000
1928	673	26,400	May 28, 1928	1,500	8,710	6,323,000	8,320	6,038,000
1929	693	15,000	Apr. 5, 1929	1,670	5,930	4,296,000	5,910	4,282,000
1930	708	8,070	Dec. 13, 1929	1,260	5,000	3,622,000	4,710	3,408,000
1931	723	8,130	May 17, 1931	1,060	4,310	3,119,000	3,900	2,827,000
1932	738	c8,880	July 26, 1932	1,140	4,140	3,002,000	4,080	2,963,000
1933	753	c8,670	July 28, 1933	770	4,300	3,113,000	4,240	3,070,000
1934	768	7,340	Aug. 7, 1934	1,050	3,330	2,411,000	3,187	2,308,000
1935	793	8,730	July 17, 1935	120	3,405	2,465,000	3,429	2,483,000
1936	813	26,500	June 5, 1936	165	4,620	3,354,000	4,607	3,345,000
1937	833	13,600	May 12, 1937	255	4,252	3,078,000	4,218	3,053,000
1938	863	22,300	May 5, 1938	405	5,470	3,960,000	5,523	3,998,000
1939	883	13,300	Apr. 10, 1939	416	5,286	3,827,000	5,268	3,814,000
1940	903	8,860	June 28, 1940	567	3,925	2,849,000	3,938	2,859,000
1941	933	8,500	July15,20,1941	545	3,866	2,799,000	3,929	2,844,000
1942	963	20,200	Apr. 25, 1942	500	4,629	3,351,000	4,925	3,565,000
1943	983	29,900	June 5, 1943	733	7,683	5,562,000	8,188	5,927,000
1944	1013	23,800	June 15, 1944	1,380	6,103	4,430,000	5,343	3,878,000
1945	1043	23,500	June10,11,1945	802	5,275	3,819,000	6,145	4,449,000
1946	1063	25,300	Apr. 27, 1946	1,060	7,559	5,472,000	7,259	5,255,000
1947	1093	27,000	June 12, 1947	1,610	6,393	4,629,000	6,267	4,538,000
1948	1123	24,800	June 24, 1948	1,730	6,880	4,995,000	6,751	4,901,000
1949	1153	14,300	June 8, 1949	1,280	6,325	4,579,000	6,322	4,577,000
1950	1183	26,800	June 28, 1950	940	7,669	5,552,000	7,989	5,784,000

* Revised.
a Maximum observed.
b June 2, 11, 12, 1913.
c Maximum daily.

139. Snake River at Montgomery Ferry, near Minidoka, Idaho 1/

Location.--Lat 42°37', long. 113°35', in sec. 19, T. 9 S., R. 25 E., 10 miles southwest of Minidoka, 4 miles east of Rupert, and 7 miles downstream from Minidoka dam (completed in 1907).

Drainage area.--15,730 sq mi, approximately.

Gage.--Staff gage. Altitude of gage is 4,129 ft (from river-profile survey).

Average discharge.--11 years (1895-1906), 7,900 cfs.

Extremes.--1895-1910: Maximum discharge, 47,500 cfs May 29, 30, 1897 (gage height, 12.6 ft); minimum observed, 1,640 cfs Sept. 7, 1906 (gage height, 0.6 ft), but may have been less between November 1906 and February 1907 due to closing gates in Minidoka dam.

Remarks.--Diversions for irrigation upstream of about 174,000 acres in 1895 and about 700,000 acres in 1910.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1895	-	-	-	-	-	-	-	-	-	-	‡4,880	4,520	-
1896	4,620	4,810	4,780	4,800	a5,200	a5,570	*5,890	*12,100	*38,600	*17,100	*5,710	4,970	*9,500
1897	‡4,960	‡4,820	‡4,800	a4,400	a4,400	a4,400	6,570	33,000	30,200	10,700	5,220	4,980	*9,900
1898	5,000	a5,200	a4,800	‡4,200	‡5,000	‡5,540	8,630	17,700	20,900	*8,920	*3,320	*3,640	‡7,740
1899	*5,070	*5,380	a4,700	a4,800	*4,920	5,410	6,200	13,700	29,100	26,200	8,770	6,010	*10,100
1900	‡6,000	‡6,500	‡6,000	‡5,800	‡5,800	‡6,200	‡8,000	‡17,200	‡16,500	‡4,620	‡2,800	‡3,500	‡7,410
1901	‡4,700	‡4,900	‡4,800	‡4,500	‡4,600	‡5,000	‡6,000	‡21,000	‡14,100	‡4,650	‡2,120	‡2,850	‡6,610
1902	‡4,140	‡4,740	‡4,710	‡4,430	‡4,470	‡4,450	‡5,110	‡11,800	‡18,000	‡6,890	‡2,420	‡2,620	‡6,150
1903	‡4,020	‡5,090	‡5,050	a4,800	a4,800	*5,310	7,020	10,200	19,800	9,670	3,230	3,900	‡6,900
1904	5,550	5,920	*5,720	a5,200	*5,360	6,530	7,790	24,500	28,200	13,000	4,880	5,580	*9,860
1905	5,780	6,080	5,830	5,800	5,550	5,640	5,780	8,920	10,900	4,540	1,980	1,960	5,730
1906	3,420	4,480	4,550	‡4,100	‡4,430	5,130	7,150	14,500	20,900	8,870	2,900	3,770	‡7,020
1907	5,320	‡4,500	‡4,800	‡4,800	‡4,100	6,180	12,100	21,800	29,100	22,100	7,500	6,200	‡10,700
1908	7,090	7,380	7,340	6,200	6,060	7,840	8,100	11,300	21,400	10,100	4,560	5,520	8,590
1909	6,900	6,900	*5,990	7,200	6,740	6,380	7,180	15,700	32,800	19,500	7,740	9,280	*11,000
1910	7,220	8,140	*7,310	*5,800	*5,560	11,000	16,100	20,900	10,400	4,390	2,220	3,160	*8,540

* Revised.
‡ Not previously published; partly estimated on the basis of gage heights, weather records and records of nearby stations.
a Monthly figures only revised; revised daily figures not available.

no water div below Clough

Monthly and yearly runoff, in thousands of acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1895	-	-	-	-	-	-	-	-	-	-	‡300	269	-
1896	284	286	294	295	a299	a343	*350	*746	*2,300	*1,050	*351	296	*6,894
1897	‡305	‡287	‡295	a271	a244	a271	391	2,030	1,800	659	321	296	*7,170
1898	307	a309	a295	‡258	‡278	‡341	514	1,090	1,250	*548	*204	*217	‡5,611
1899	*312	*320	a289	a295	*273	333	369	843	1,730	1,610	539	358	*7,271
1900	‡369	‡387	‡369	‡357	‡334	‡381	‡476	‡1,060	‡982	‡284	‡172	‡208	‡5,379
1901	‡289	‡292	‡295	‡277	‡255	‡307	‡357	‡1,290	‡840	‡286	‡130	‡169	‡4,787
1902	‡254	‡282	‡289	‡272	‡248	‡273	‡304	‡725	‡1,070	‡424	‡149	‡156	‡4,446
1903	‡247	‡303	‡310	a295	a267	*326	418	625	1,180	595	198	232	‡4,996
1904	341	352	*352	a320	*308	402	464	1,510	1,680	798	300	332	*7,159
1905	355	362	359	357	308	347	344	549	649	280	122	116	4,147
1906	210	267	280	‡252	‡246	316	426	892	1,250	546	178	225	‡5,088
1907	317	‡274	‡295	‡295	‡228	380	720	1,340	1,730	1,360	461	369	‡7,769
1908	436	439	451	381	349	482	482	695	1,270	621	280	328	6,214
1909	424	411	*368	443	374	392	427	965	1,950	1,200	476	552	*7,982
1910	444	484	*449	*357	*309	676	958	1,290	619	270	136	188	*6,180

* Revised.
‡ Not previously published; see footnote to preceding table.
a Monthly figures only revised; revised daily figures not available.

Yearly discharge, in cubic feet per second

Year	W.S.P. no.	Water year ending Sept. 30					Calendar year	
		Maximum observed		Minimum day	Mean	Runoff in acre-feet	Mean	Runoff in acre-feet
		Discharge	Date					
1895	(a)	-	-	-	-	-	-	-
1896	(a),1347	*44,700	June 23, 1896	-	*9,500	*6,894,000	*9,530	*6,917,000
1897	(b)	47,500	May29,30,1897	-	*9,900	*7,170,000	*9,940	*7,194,000
1898	(c),1347	26,400	June 1, 1898	2,840	‡7,740	‡5,611,000	‡7,750	‡5,621,000
1899	(d),1347	39,200	June 25, 1899	4,100	*10,100	*7,271,000	*10,300	*7,475,000
1900	-	-	-	-	‡7,410	‡5,379,000	‡7,070	‡5,130,000

* Revised.
‡ Not previously published.
a 18th Ann. Rept., Pt. 4.
b 19th Ann. Rept., Pt. 4.
c 20th Ann. Rept., Pt. 4.
d 21st Ann. Rept., Pt. 4.

1/ Published as Snake River near Minidoka, 1904-10.

Yearly discharge, in cubic feet per second, of Birch Creek near Oakley, Idaho

Year	W.S.P. no.	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Runoff in acre-feet	Mean	Runoff in acre-feet
		Discharge	Date					
1912	332	55	Apr. 8, 1912	2.4	-	-	9.93	7,200
1913	362	-	-	-	-	-	-	-
1914	393	-	-	-	-	-	-	-
1915	413	-	-	-	-	-	-	-
1916	443	-	-	-	-	-	-	-

DIVERSIONS FROM SNAKE RIVER BETWEEN GOOSE CREEK AND SNAKE RIVER AT MILNER

145. P. A. lateral near Milner, Idaho

Location.--Lat 42°32', long. 114°01', in sec. 22, T. 10 S., R. 21 E., 600 ft downstream from pumping station and 2½ miles northeast of Milner.

Gage.--Staff gage and concrete rating flume. Altitude of gage is 4,196 ft (river-profile map).

Extremes.--1916-50: Maximum discharge, 73 cfs on many days during 1949 and 1950 (gage height, 1.52 ft); no flow during winters.

Remarks.--Flow regulated by pumping plant which lifts water 65 ft from Snake River for irrigation on North Side Twin Falls tract. Pump capacity increased in 1949.

Cooperation.--Records for 1916-18, not previously published by the Geological Survey, furnished by North Side Twin Falls Canal Co.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1916	0	0	0	0	0	0	6.1	11.0	17.1	20.6	24.7	14.6	7.9
1917	0	0	0	0	0	0	0	10.0	32.8	49.1	49.7	33.8	14.7
1918	0	0	0	0	0	0	19.8	42.6	47.7	53.0	52.1	48.3	22.1
1919	0	0	0	0	0	0	1.2	50.0	44.8	28.9	26.3	30.5	15.2
1920	0	0	0	0	0	0	13.5	53.3	57.6	50.7	44.6	48.7	22.4
1921	11.4	0	0	0	0	0	1.1	47.2	57.8	59.1	42.9	37.6	21.6
1922	0	0	0	0	0	0	0	37.2	59.3	58.5	46.5	44.7	20.6
1923	5.1	3.1	0	0	0	2.0	2.3	50.3	58.6	55.1	47.1	35.4	21.7
1924	.3	0	0	0	0	1.6	14.1	44.0	37.6	27.9	28.0	14.6	14.1
1925	26.4	6.6	0	0	0	3.6	15.7	52.5	52.9	51.7	49.8	22.9	23.7
1926	0	2.8	0	0	0	1.5	17.0	49.0	48.8	45.7	47.9	35.0	20.8
1927	0	0	0	0	0	1.3	2.7	48.1	55.5	56.5	55.2	39.8	21.7
1928	0	2.3	0	0	0	3.3	.3	51.0	53.0	56.1	55.0	52.6	22.9
1929	0	2.8	0	0	0	0	0	44.4	55.5	52.5	56.1	46.5	21.6
1930	0	2.7	0	0	0	0	21.2	41.6	60.8	61.4	56.0	25.0	22.5
1931	0	2.6	0	0	0	0	18.6	59.7	52.9	61.6	61.7	29.1	24.0
1932	0	1.8	2.4	0	0	0	3.6	40.4	53.8	63.4	62.8	49.8	23.2
1933	0	0	0	0	0	0	5.8	53.8	60.2	61.0	61.0	47.4	24.2
1934	0	0	0	0	0	0	13.1	53.9	51.6	61.6	62.0	36.1	23.4
1935	0	1.3	0	0	0	1.2	0	43.4	60.1	61.8	61.3	48.9	23.3
1936	0	1.1	0	0	0	0	.5	56.4	59.3	61.7	61.1	57.3	24.9
1937	0	1.0	0	0	0	0	0	52.4	61.5	60.8	61.3	51.2	24.2
1938	1.4	1.1	0	0	0	0	.4	56.3	60.4	58.2	60.6	55.0	24.6
1939	1.2	0	0	0	0	0	17.7	60.0	59.1	59.3	59.6	38.1	24.8
1940	0	.9	0	0	0	0	1.6	57.0	60.0	60.0	59.3	43.2	23.6
1941	0	0.8	0	0	0	0	6.7	60.4	62.0	63.5	63.0	49.2	25.6
1942	0	1.0	0	0	0	0	2.4	58.2	62.0	61.7	62.2	53.9	25.3
1943	0	1.6	0	0	0	1.1	5.3	61.1	56.4	61.9	61.4	48.0	24.9
1944	0	0	0	0	0	0	1.1	45.6	57.2	60.6	60.3	55.6	23.4
1945	0	1.1	0	0	0	1.0	3.6	56.2	59.8	60.3	60.1	46.1	24.2
1946	0	1.1	0	0	0	0	3.6	62.0	61.7	60.5	55.4	49.0	24.6
1947	0	1.0	0	0	0	0	5.4	60.5	55.6	61.1	60.1	46.8	24.4
1948	1.6	0	0	0	0	0	3.8	59.0	60.4	59.5	58.9	49.2	24.4
1949	0	0	0	0	0	0	7.4	59.0	59.0	67.6	70.5	43.2	25.7
1950	0	0	0	0	0	0	2.6	61.0	62.0	70.3	70.1	45.4	26.2

Monthly and yearly runoff, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1916	0	0	0	0	0	0	362	678	1,020	1,270	1,520	869	5,720
1917	0	0	0	0	0	0	0	613	1,950	3,020	3,060	2,010	10,650
1918	0	0	0	0	0	0	1,180	2,620	2,840	3,260	3,200	2,870	15,970
1919	0	0	0	0	0	0	73	3,070	2,670	1,780	1,620	1,810	11,000
1920	0	0	0	0	0	0	803	3,280	3,430	3,120	2,740	2,900	16,300
1921	701	0	0	0	0	0	66	2,900	3,440	3,630	2,640	2,240	15,620
1922	0	0	0	0	0	0	0	2,290	3,530	3,600	2,860	2,660	14,900
1923	311	182	0	0	0	121	135	3,090	3,490	3,390	2,900	2,110	15,730
1924	20	0	0	0	0	97	841	2,710	2,240	1,720	1,720	869	10,220
1925	1,620	395	0	0	0	220	934	3,230	3,150	3,180	3,060	1,360	17,150

Monthly and yearly runoff, in acre-feet, of P. A. lateral near Milner, Idaho--Continued

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1926	0	165	0	0	0	93	1,010	3,010	2,900	2,810	2,940	2,080	15,010
1927	0	0	0	0	0	81	161	2,960	3,300	3,470	3,390	2,370	15,700
1928	0	137	0	0	0	203	18	3,140	3,150	3,450	3,380	3,130	16,610
1929	0	168	0	0	0	0	0	2,730	3,300	3,230	3,450	2,770	15,650
1930	0	158	0	0	0	0	1,260	2,560	3,620	3,780	3,440	1,490	16,310
1931	0	155	0	0	0	0	1,110	3,670	3,150	3,790	3,790	1,730	17,400
1932	0	105	147	0	0	0	212	2,480	3,200	3,900	3,860	2,960	16,900
1933	0	0	0	0	0	0	345	3,310	3,580	3,750	3,750	2,820	17,600
1934	0	0	0	0	0	0	780	3,310	3,070	3,790	3,810	2,150	16,900
1935	0	75	0	0	0	71	0	2,670	3,580	3,800	3,770	2,910	16,880
1936	0	67	0	0	0	0	30	3,470	3,530	3,800	3,760	3,410	18,070
1937	0	60	0	0	0	0	0	3,220	3,660	3,740	3,770	3,050	17,500
1938	85	63	0	0	0	0	24	3,460	3,590	3,580	3,720	3,270	17,790
1939	75	0	0	0	0	0	1,060	3,690	3,520	3,650	3,660	2,270	17,920
1940	0	56	0	0	0	0	93	3,510	3,570	3,690	3,650	2,570	17,140
1941	0	50	0	0	0	0	399	3,720	3,690	3,850	3,870	2,930	18,510
1942	0	60	0	0	0	0	141	3,580	3,690	3,790	3,820	3,200	18,280
1943	0	93	0	0	0	67	313	3,760	3,350	3,810	3,780	2,860	18,030
1944	0	0	0	0	0	0	67	2,800	3,400	3,730	3,710	3,310	17,020
1945	0	63	0	0	0	61	216	3,460	3,560	3,710	3,700	2,740	17,510
1946	0	67	0	0	0	0	214	3,810	3,670	3,720	3,410	2,920	17,810
1947	0	60	0	0	0	0	321	3,720	3,310	3,760	3,690	2,780	17,640
1948	97	0	0	0	0	0	228	3,630	3,590	3,660	3,620	2,920	17,740
1949	0	0	0	0	0	0	442	3,620	3,510	4,160	4,340	2,570	18,640
1950	0	0	0	0	0	0	157	3,750	3,690	4,320	4,310	2,700	18,930

Yearly discharge, in cubic feet per second

Year	W.S.P. no.	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Runoff in acre-feet	Mean	Runoff in acre-feet
		Discharge	Date					
1916	-	25	(a)	0	7.9	5,720	7.9	5,720
1917	-	50	(a)	0	14.7	10,650	14.7	10,650
1918	-	53	(a)	0	22.1	15,970	22.1	15,970
1919	513	61	(b)	0	15.2	11,000	15.2	11,000
1920	513	64	May 12, 1920	0	22.4	16,300	23.4	17,000
1921	533	62	(a)	0	21.6	15,620	20.6	14,920
1922	553	60	(a)	0	20.6	14,900	21.3	15,430
1923	573	61	(a)	0	21.7	15,730	21.1	15,260
1924	593	55	(a)	0	14.1	10,220	16.8	12,210
1925	613	55	(a)	0	23.7	17,150	21.1	15,300
1926	633	55	(a)	0	20.8	15,010	20.5	14,840
1927	653	58	July18,19,1927	0	21.7	15,700	21.9	15,870
1928	673	57	(a)	0	22.9	16,610	22.9	16,640
1929	693	57	(a)	0	21.6	15,650	21.6	15,640
1930	708	64	July 11, 1930	0	22.5	16,310	22.5	16,300
1931	723	63	Sept.5-9,1931	0	24.0	17,400	24.2	17,490
1932	738	64	(a)	0	23.2	16,900	22.9	16,610
1933	753	61	(a)	0	24.2	17,600	24.2	17,600
1934	768	62	(a)	0	23.4	16,900	23.5	16,980
1935	793	62	(a)	0	23.3	16,880	23.3	16,870
1936	813	62	(a)	0	24.9	18,070	24.9	18,060
1937	833	62	(a)	0	24.2	17,500	24.3	17,590
1938	863	62	(a)	0	24.6	17,790	24.5	17,720
1939	883	60	(a)	0	24.8	17,920	24.7	17,910
1940	903	60	(a)	0	23.6	17,140	23.6	17,130
1941	933	63	(a)	0	25.6	18,510	25.6	18,520
1942	963	63	(a)	0	25.3	18,280	25.3	18,310
1943	983	62	(a)	0	24.9	18,030	24.8	17,940
1944	1013	62	(a)	0	23.4	17,020	23.5	17,080
1945	1043	62	(a)	0	24.2	17,510	24.2	17,510
1946	1063	62	(a)	0	24.6	17,810	24.6	17,800
1947	1093	62	(a)	0	24.4	17,640	24.4	17,680
1948	1123	61	(a)	0	24.4	17,740	24.3	17,650
1949	1153	73	(a)	0	25.7	18,640	25.7	18,640
1950	1183	73	(a)	0	26.2	18,930	26.2	18,930

a Many days during irrigation season.
b May 16, 17, 19, 1919.
Note.--Records for 1916-18, not previously published by the Geological Survey, furnished by Northside Twin Falls Canal Co.

146. Milner low-lift canal near Milner, Idaho 1/

Location.--Lat 42°31', long. 114°01', in sec. 32, T. 10 S., R. 21 E., at head of canal 1½ miles south of Milner.

Gage.--Rated pumps. Prior to July 21, 1924, staff gage and July 21, 1924, to May 1, 1945, water-stage recorder at site 600 ft downstream.

Average discharge.--6 years (1944-50), 71.7 cfs.

Extremes.--1920-50: Maximum discharge, 203 cfs Aug. 26, 27, 1945; no flow on many days.

Remarks.--Flow controlled by pumping plant which lifts water from Snake River above Milner Dam for irrigation of 9,130 acres of land in Milner low-lift irrigation district. Pumps rated by current meter measurements.

Cooperation.--Records for 1920 furnished by Idaho Water District 36.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1920	0	0	0	0	0	0	0	0	‡16.8	‡19.1	‡0	‡3.3	‡3.3
1921	0	0	0	0	0	0	0	0	21.4	40.9	15.0	22.1	‡8.3
1922	0	0	0	0	0	0	0	‡18.8	55.7	81.8	47.2	44.7	‡20.8
1923	‡2.6	0	0	0	0	0	0	‡32.0	84.0	90.0	87.5	52.7	‡29.2
1924	‡1.3	‡31	0	0	0	0	‡20.9	73.5	82.3	61.2	51.2	5.7	‡25.0
1925	4.7	0	0	0	0	0	0	‡60.4	90.0	101	74.8	56.7	‡32.5
1926	0	0	0	0	0	0	‡45.0	102	70.9	81.0	64.0	48.3	‡34.5
1927	‡14.1	‡7.3	0	0	0	‡3.4	‡9.6	89.3	94.7	96.8	94.9	84.8	‡41.5
1928	0	0	0	0	0	0	0	75.6	117	133	117	95.8	‡45.1
1929	0	7.1	†0.6	0	0	0	0	‡67.8	124	146	133	106	‡49.0
1930	0	0	0	0	0	0	50.9	27.0	130	153	110	86.7	46.7
1931	0	0	0	0	0	0	18.8	124	124	158	132	62.5	52.1
1932	10.2	0	0	0	0	0	0	69.8	109	166	161	120	53.2
1933	0	0	0	0	0	0	23.3	110	162	168	161	124	62.7
1934	15.2	0	0	0	1.2	3.4	17.3	126	79.2	123	94.3	28.1	41.1
1935	0	30.9	0	1.6	0	0	1.5	84.8	125	126	123	81.6	48.1
1936	0	0	0	0	0	0	16.1	145	139	165	129	109	58.8
1937	0	0	0	0	0	0	0.9	130	134	163	142	110	57.1
1938	0	0	0	0	0	0	0	119	146	120	160	110	55.1
1939	0	0	0	0	0	0	42.9	148	142	159	164	123	65.4
1940	0	0	0	0	0	0	5.4	160	166	169	169	87.6	63.3
1941	0	0	0	0	0	0	21.2	161	126	165	163	98.5	61.6
1942	0.2	0	0	0	0	0	20.7	119	139	164	166	133	62.2
1943	0	0	0	0	0	0	30.6	160	106	169	168	140	65.0
1944	0	0	0	0	0	0	0	101	82.2	183	166	150	57.1
1945	0	0	0	0	0	0	0	121	134	199	200	135	66.4
1946	0	0	0	0	0	0	17.0	184	173	192	193	123	74.1
1947	0	0	0	0	0	0	36.4	170	81.6	197	199	147	69.8
1948	0	0	0	0	0	0	16.7	169	162	188	195	144	73.3
1949	0	0	0	0	0	0	39.3	172	143	191	197	129	73.2
1950	0	0	0	0	0	0	14.7	161	172	187	185	153	73.2

† Corrected.
‡ Not previously published; based on data furnished by Idaho Water District 36.

Monthly and yearly runoff, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1920	0	0	0	0	0	0	0	0	‡998	‡1,170	0	‡194	‡2,360
1921	0	0	0	0	0	0	0	0	1,270	2,510	922	1,320	‡6,020
1922	0	0	0	0	0	0	0	1,160	3,310	5,030	2,900	2,660	‡15,100
1923	‡159	0	0	0	0	0	0	1,970	5,000	5,530	5,380	3,140	‡21,200
1924	81	185	0	0	0	0	1,240	4,520	4,900	3,760	3,150	339	‡18,200
1925	278	0	0	0	0	0	0	3,710	5,360	6,210	4,600	3,370	‡23,500
1926	0	0	0	0	0	0	2,680	6,270	4,220	4,980	3,940	2,870	‡25,000
1927	867	433	0	0	0	‡208	571	5,490	5,640	5,950	5,840	5,050	‡30,000
1928	0	0	0	0	0	0	0	4,650	6,960	8,180	7,190	5,700	‡32,700
1929	0	424	40	0	0	0	0	4,180	7,380	8,980	8,180	6,310	‡35,500
1930	0	0	0	0	0	0	3,030	1,660	7,740	9,410	6,760	5,160	33,800
1931	0	0	0	0	0	0	1,120	7,620	7,380	9,720	8,120	3,720	37,700
1932	627	0	0	0	0	0	0	4,290	6,490	10,200	9,900	7,140	38,600
1933	0	0	0	0	0	0	1,390	6,760	9,640	10,300	9,900	7,380	45,400
1934	935	0	0	0	66	212	1,030	7,750	4,710	7,560	5,800	1,670	29,700
1935	0	1,840	0	99	0	0	89	5,220	7,430	7,740	7,550	4,850	34,820
1936	0	0	0	0	0	0	958	8,920	8,370	10,130	7,920	6,470	42,770
1937	0	0	0	0	0	0	52	8,010	8,000	10,020	8,700	6,530	41,310
1938	0	0	0	0	0	0	0	7,340	8,700	7,390	9,870	6,570	39,870
1939	0	0	0	0	0	0	2,550	9,120	8,470	9,770	10,080	7,330	47,320
1940	0	0	0	0	0	0	319	9,820	9,880	10,370	10,380	5,210	45,980

‡ Not previously published; based on data furnished by Idaho Water District 36.

1/ Published as Murtaugh Canal near Milner, prior to October 1922.

Monthly and yearly runoff, in acre-feet, of Milner low-lift canal near Milner, Idaho--Continued

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1941	0	0	0	0	0	0	1,260	9,870	7,500	10,120	10,000	5,860	44,610
1942	10	0	0	0	0	0	1,230	7,340	8,270	10,050	10,230	7,890	45,020
1943	0	0	0	0	0	0	1,820	9,860	6,300	10,410	10,330	8,310	47,030
1944	0	0	0	0	0	0	0	6,190	4,890	11,280	10,220	8,900	41,480
1945	0	0	0	0	0	0	0	7,460	8,000	12,240	12,310	8,050	48,060
1946	0	0	0	0	0	0	1,010	11,320	10,310	11,820	11,850	7,310	53,620
1947	0	0	0	0	0	0	2,170	10,470	4,860	12,080	12,220	8,720	50,520
1948	0	0	0	0	0	0	996	10,400	9,660	11,580	12,010	8,540	53,190
1949	0	0	0	0	0	0	2,140	10,560	8,510	11,770	12,140	7,670	52,790
1950	0	0	0	0	0	0	873	9,870	10,220	11,530	11,370	9,110	52,970

Yearly discharge, in cubic feet per second

Year	W.S.P. no.	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Runoff in acre-feet	Mean	Runoff in acre-feet
		Discharge	Date					
1920	-	39	(a)	0	‡3.3	‡2,360	‡3.3	‡2,360
1921	533	53	June26-30,1921	0	‡8.3	‡6,020	‡8.3	‡6,020
1922	553	98	July 27, 1922	0	‡20.8	‡15,100	‡21.0	‡15,200
1923	573	100	(a)	0	‡29.2	‡21,200	‡29.4	‡21,300
1924	593	104	May 27, 1924	0	‡25.0	‡18,200	‡25.1	‡18,200
1925	613	108	July 31, 1925	0	‡32.5	‡23,500	‡32.1	‡23,200
1926	633	106	May 4, 1926	0	‡34.5	‡25,000	‡36.3	‡26,300
1927	653	107	July 2, 1927	0	‡41.5	‡30,000	‡39.7	‡28,700
1928	673	143	June10,11,1928	0	‡45.1	‡32,700	‡45.7	‡33,100
1929	693	170	July 23, 1929	0	‡49.0	‡35,500	‡48.3	‡35,000
1930	708	167	July6,7, 1930	0	46.7	33,800	46.7	33,800
1931	723	167	July15,16,1931	0	52.1	37,700	52.9	38,300
1932	738	170	July 28, 1932	0	53.2	38,600	52.4	38,000
1933	753	173	June 29, 1933	0	62.7	45,400	64.0	46,300
1934	768	130	May18,21,1934	0	41.1	29,700	42.3	30,640
1935	793	128	July27-31,1935	0	48.1	34,820	45.5	32,980
1936	813	174	July 7, 1936	0	58.8	42,770	58.8	42,770
1937	833	172	July19-25,1937	0	57.1	41,310	57.1	41,310
1938	863	170	(a)	0	55.1	39,870	55.1	39,870
1939	883	166	(a)	0	65.4	47,320	65.4	47,320
1940	903	173	(a)	0	63.3	45,980	63.3	45,980
1941	933	171	(a)	0	61.6	44,610	61.6	44,620
1942	963	170	Aug. 8, 1942	0	62.2	45,020	62.2	45,010
1943	983	171	(a)	0	65.0	47,030	65.0	47,030
1944	1013	192	(a)	0	57.1	41,480	57.1	41,480
1945	1043	203	Aug.26,27,1945	0	66.4	48,060	66.4	48,060
1946	1063	200	(a)	0	74.1	53,620	74.1	53,620
1947	1093	200	July4,5, 1947	0	69.8	50,520	69.8	50,520
1948	1123	198	(a)	0	73.3	53,190	73.3	53,190
1949	1153	201	(a)	0	73.2	52,790	73.2	52,790
1950	1183	200	July18-24,1950	0	73.2	52,970	-	-

‡ Not previously published.
a Maximum recorded on several days.

147. Gooding Canal at Milner, Idaho

Location.--Headgates of canal 42°31', long. 114°01', in sec. 28, T. 10 S., R. 21 E., at Milner Dam; A lateral in sec. 19, T. 10 S., R. 21 E.; Milner-Gooding Canal in sec. 18, T. 10 S., R. 21 E.; North Side Canal Co. diversion in NE¼ sec. 13, T. 10 S., R. 20 E.

Gage.--Water-stage recorder on Milner-Gooding Canal 3 miles downstream from headgates. Staff gage on A lateral 1½ miles downstream from headgates and differential recorder at head of North Side Canal diversion 3 miles downstream from headgates. Average altitude of these gages is 4,120 ft.

Average discharge.--15 years (1935-50), total Gooding Canal, 957 cfs; Milner-Gooding project, 544 cfs; North Side Canal Co. project, 413 cfs.

Extremes.--1930-50: Maximum discharge, Gooding Canal, 2,680 cfs July 28, 1949; Milner-Gooding project, 1,640 cfs July 22, 23, 1943; North Side Canal Co. project, 1,150 cfs Aug. 5, 1949; no flow during winters.

Remarks.--Gooding Canal diverts water from Snake River for Milner-Gooding project of Bureau of Reclamation and in part for North Side Canal Co. project. The latter project also receives water through the North Side Twin Falls Canal and P. A. lateral. Diversion by Gooding Canal began in 1930. Discharge of Gooding Canal is computed by combining the discharge of Milner-Gooding Canal and diversions of North Side Canal Co. (A lateral plus North Side Canal Co. diversion), and adding thereto 35 cfs for loss in canal between headgates and division point 3 miles downstream. All figures shown in the following tables are flow at the head of the Gooding Canal.

Monthly and yearly mean discharge, in cubic feet per second, of Gooding Canal at Milner, Idaho

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1930	0	0	0	0	0	0	0	34.4	100	314	147	63.1	55.5
1931	561	210	171	0	19.4	255	449	873	802	1,150	1,560	722	†569
1932	7.6	195	0	0	0	66.9	358	1,130	1,600	2,040	1,860	1,100	698
1933	84.8	265	0	0	0	0	253	1,180	1,540	1,890	1,830	1,540	718
1934	357	108	0	0	0	173	523	1,010	1,120	1,290	1,080	740	537
1935	186	80.0	0	0	0	5.1	265	1,514	1,869	2,035	1,874	612	709
1936	576	54.5	0	0	0	8.7	183	1,687	1,963	2,205	2,031	1,358	843
1937	0	72.9	0	0	0	0	575	1,671	1,837	2,017	2,018	1,612	821
1938	42.9	91.2	0	0	0	0	510	1,482	1,884	2,122	2,088	1,910	848
1939	340	70.2	0	0	0	0	860	2,045	1,971	2,233	2,165	1,461	935
1940	356	96.3	0	0	0	0	310	1,687	2,059	2,332	2,242	1,827	912
1941	388	208	0	0	0	0	360	1,863	1,969	2,317	2,208	1,800	932
1942	542	137	0	0	0	0	859	2,117	2,184	2,462	2,383	2,013	1,064
1943	680	191	0	0	0	0	526	1,856	1,834	2,396	2,413	1,770	979
1944	26.8	325	0	0	0	0	470	1,672	1,959	2,412	2,398	2,074	947
1945	162	380	0	0	0	0	538	1,939	2,031	2,308	2,161	1,855	953
1946	237	81.0	0	0	0	0	860	2,076	2,244	2,446	2,263	1,868	1,012
1947	377	99.7	0	0	0	129	876	2,224	2,129	2,418	2,271	1,881	1,040
1948	565	24.0	0	0	0	0	435	2,255	2,329	2,455	2,385	1,790	1,024
1949	0	67.0	0	0	0	0	566	2,135	2,370	2,613	2,488	1,909	1,018
1950	43.2	0	0	0	0	0	428	2,156	2,420	2,545	2,487	2,185	1,028

† Corrected.

Monthly and yearly runoff, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1930	0	0	0	0	0	0	0	2,120	5,950	19,300	9,040	3,750	40,200
1931	34,500	12,500	10,500	0	1,080	15,700	26,700	53,700	47,700	70,700	95,900	43,000	412,000
1932	466	11,600	0	0	0	4,110	21,300	69,300	95,200	125,000	115,000	65,400	507,000
1933	5,210	15,800	0	0	0	0	15,040	72,700	91,400	115,900	112,400	91,500	520,000
1934	22,000	6,430	0	0	0	10,600	31,100	62,400	66,600	79,400	66,500	44,000	389,000
1935	11,420	4,760	0	0	0	311	15,760	93,040	111,220	125,140	115,210	36,410	513,300
1936	35,430	3,240	0	0	0	536	10,870	103,720	116,800	135,610	124,860	80,800	611,900
1937	0	4,340	0	0	0	0	34,190	102,800	109,300	124,000	124,100	95,920	594,700
1938	2,640	5,420	0	0	0	0	30,340	91,100	112,100	130,500	128,400	113,600	614,100
1939	20,920	4,180	0	0	0	0	51,160	125,750	117,300	137,300	133,150	86,920	676,680
1940	21,920	5,730	0	0	0	0	18,460	103,700	122,500	143,400	137,900	108,700	662,300
1941	23,840	12,380	0	0	0	0	21,400	114,560	117,140	142,490	135,770	107,090	674,670
1942	33,340	8,170	0	0	0	0	51,130	130,160	129,980	151,380	146,540	119,780	770,480
1943	41,810	11,340	0	0	0	0	31,300	114,100	109,200	147,300	148,400	105,300	708,700
1944	1,650	19,320	0	0	0	0	27,970	102,780	116,590	148,330	147,430	123,410	687,480
1945	9,940	22,610	0	0	0	0	31,990	119,230	120,870	141,940	132,870	110,380	689,830
1946	14,580	4,820	0	0	0	0	51,150	127,660	133,530	150,420	139,120	111,130	732,410
1947	23,210	5,930	0	0	0	7,930	52,130	136,780	126,690	148,700	139,620	111,930	752,900
1948	34,770	1,430	0	0	0	0	25,860	138,620	138,580	150,940	146,620	106,530	743,350
1949	0	3,990	0	0	0	0	33,660	131,300	141,000	160,600	153,000	113,600	737,200
1950	2,660	0	0	0	0	0	25,450	132,600	144,000	156,500	152,900	130,000	744,100

Monthly and yearly distribution of Gooding Canal to Milner-Gooding project, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1930	0	0	0	0	0	0	0	0	0	‡553	‡830	‡1,730	‡3,110
1931	6,900	5,650	10,500	0	1,080	15,500	23,900	53,500	47,500	50,100	61,900	28,000	304,500
1932	0	11,600	0	0	0	0	13,700	54,400	60,100	82,400	71,300	38,200	331,700
1933	1,060	3,700	0	0	0	0	2,140	43,300	58,400	70,100	58,200	44,700	282,000
1934	0	6,430	0	0	0	0	31,100	59,200	57,700	64,600	58,700	39,500	317,000
1935	0	4,760	0	0	0	0	3,340	53,910	64,560	67,110	57,350	1,270	252,300
1936	470	3,240	0	0	0	0	1,940	66,450	72,950	83,090	68,810	39,020	336,000
1937	0	4,340	0	0	0	0	10,320	60,050	66,270	75,350	67,360	42,570	326,300
1938	0	5,420	0	0	0	0	2,810	39,470	60,540	76,030	73,960	62,540	320,800
1939	0	4,180	0	0	0	0	31,440	75,710	69,120	79,360	75,070	52,880	387,760
1940	0	5,730	0	0	0	0	18,460	70,590	82,310	90,980	82,730	57,200	408,000
1941	0	5,380	0	0	0	0	21,400	71,300	75,190	95,540	88,360	62,640	419,810
1942	0	8,170	0	0	0	0	18,470	77,000	77,870	95,700	89,850	67,240	434,300
1943	1,470	5,530	0	0	0	0	2,280	64,480	61,690	90,760	91,500	57,120	374,830
1944	†0	†0	0	0	0	0	†5,180	†63,490	†72,580	†92,970	†89,830	†67,500	†391,550
1945	0	5,690	0	0	0	0	14,360	74,720	77,100	89,930	79,640	60,750	402,190
1946	0	4,760	0	0	0	0	18,630	80,490	84,520	89,750	79,280	57,080	414,510
1947	0	0	0	0	0	2,080	27,510	78,780	71,070	87,950	77,890	59,270	404,550
1948	0	1,430	0	0	0	0	21,400	76,480	76,500	89,080	83,400	66,720	415,010
1949	0	3,990	0	0	0	0	25,010	75,530	84,220	92,710	84,380	64,560	430,400
1950	0	0	0	0	0	0	20,870	78,780	89,380	95,800	90,310	72,830	447,970

† Corrected.
‡ Not previously published; data furnished by Idaho Water District 36.

Monthly and yearly distribution of Gooding Canal to North Side Canal Co. project, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1930	0	0	0	0	0	0	0	‡2,120	‡5,950	‡8,700	‡8,210	‡2,030	‡37,000
1931	27,600	6,850	0	0	0	218	2,800	248	178	20,600	34,000	15,000	107,500
1932	466	0	0	0	0	4,110	7,560	14,900	35,100	43,000	43,300	27,200	175,600
1933	4,150	12,100	0	0	0	0	12,900	29,400	33,000	45,800	54,200	46,800	238,000
1934	22,000	0	0	0	0	10,600	0	3,160	8,870	14,800	7,810	4,490	71,700
1935	11,420	0	0	0	0	311	12,420	39,130	46,660	58,030	57,860	35,140	261,000
1936	34,960	0	0	0	0	536	8,930	37,270	43,850	52,520	56,050	41,780	275,900
1937	0	0	0	0	0	0	23,870	42,730	43,060	48,670	56,750	53,350	268,400
1938	2,640	0	0	0	0	0	27,530	51,630	51,570	54,450	54,410	51,090	293,300
1939	20,920	0	0	0	0	0	19,720	50,040	48,180	57,940	58,080	34,040	288,920
1940	21,920	0	0	0	0	0	0	33,140	40,220	52,400	55,120	51,510	254,300
1941	23,840	7,000	0	0	0	0	0	43,260	41,950	46,950	47,410	44,450	254,860
1942	33,340	0	0	0	0	0	32,660	53,160	52,110	55,680	56,690	52,540	336,180
1943	40,340	5,810	0	0	0	0	29,020	49,630	47,460	56,550	56,870	48,200	333,880
1944	†1,650	†19,320	0	0	0	0	†22,790	†39,290	†44,010	†55,360	†57,600	†55,910	†295,930
1945	9,940	16,920	0	0	0	0	17,630	44,510	43,780	52,010	53,240	49,630	287,660
1946	14,580	60	0	0	0	0	32,520	47,170	49,010	60,670	59,840	54,050	317,900
1947	23,210	5,930	0	0	0	5,850	24,610	57,980	55,620	60,750	61,730	52,660	348,340
1948	34,770	0	0	0	0	0	4,460	62,140	62,080	61,860	63,210	39,810	328,330
1949	0	0	0	0	0	0	8,650	55,780	56,790	67,930	68,630	49,050	306,830
1950	2,660	0	0	0	0	0	4,580	53,810	54,600	60,650	62,600	57,200	296,100

† Corrected.
‡ Not previously published; data furnished by Idaho Water District 36.

Yearly discharge of Gooding Canal, in cubic feet per second

Year	W.S.P. no.	Water year ending Sept. 30					Calendar year	
		Maximum daily		Minimum day	Mean	Runoff in acre-feet	Mean	Runoff in acre-feet
		Discharge	Date					
1930	708	384	July23-29,1930	0	55.5	40,200	135	97,700
1931	723	1,610	Aug.5,7-8,1931	0	†569	412,000	506	367,000
1932	738	2,170	July 27, 1932	0	698	507,000	711	516,300
1933	753	2,010	July28,29,1933	0	718	520,000	729	527,400
1934	768	1,610	(a)	0	537	389,000	520	376,700
1935	793	2,210	July 21, 1935	0	709	513,300	740	535,800
1936	813	2,270	July29-31,1936	0	843	611,900	796	577,500
1937	833	2,250	Aug.2,3, 1937	0	821	594,700	827	598,400
1938	863	2,300	(a)	0	848	614,100	872	631,100
1939	883	2,310	Aug.2-4, 1939	0	935	676,680	938	679,230
1940	903	2,410	July15-21,1940	0	912	662,300	924	670,880
1941	933	2,380	(a)	0	932	674,670	939	679,960
1942	963	2,580	(a)	0	1,064	770,480	1,080	782,100
1943	983	2,580	(a)	0	979	708,700	934	676,530
1944	1013	2,510	(a)	0	947	687,480	963	699,080
1945	1043	2,410	July16,17,1945	0	953	689,830	934	676,680
1946	1063	2,480	July 31, 1946	0	1,012	732,410	1,025	742,150
1947	1093	2,520	July 21, 1947	0	1,040	752,900	1,050	759,960
1948	1123	2,580	Aug. 7, 1948	0	1,024	743,350	980	711,140
1949	1153	2,680	July 28, 1949	0	1,018	737,200	1,016	735,820
1950	1183	2,620	July21-23,1950	0	1,028	744,100	-	-

† Corrected.
a Maximum recorded on several days.

148. North Side Twin Falls Canal at Milner, Idaho

Location.--Lat 42°32', long. 114°01', in sec. 20, T. 10 S., R. 21 E., half a mile north of Milner and three-quarters of a mile downstream from headgates on Snake River at Milner Dam.

Gage.--Water-stage recorder. Datum of gage is 4,123.4 ft above mean sea level, datum of 1929. Prior to April 1, 1916, staff gages at two sites within half a mile at approximately same datum.

Average discharge.--15 years (1935-50), 1,227 cfs.

Extremes.--1909-50: Maximum discharge, 3,200 cfs several days during 1921, 1928 and 1929 (gage height, 8.9 ft); no flow at times when headgates were closed.

Remarks.--Water diverted by this canal, by P. A. lateral and part of that diverted by Gooding Canal, all at Milner, is used for irrigation of 162,000 acres of land under North Side Canal Company system. Small diversions began in April 1908 for First Segregation of North Side Project but no records of flow are available until May 1909 when irrigation began on the larger Second Segregation.

During the early years of operation of the canal considerable water was diverted during the non-irrigation season for filling Jerome Reservoir but seepage losses in that reservoir proved excessive and it was entirely abandoned by 1918. Since the construction of the Gooding Canal in 1930 part of the water supply for the North Side Project has been furnished by that canal, reducing the required diversion by North Side Twin Falls Canal.

Monthly and yearly mean discharge, in cubic feet per second, of North Side Twin Falls Canal at Milner, Idaho

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1909	-	-	-	-	-	-	-	‡1,150	1,360	1,480	1,320	‡464	-
1910	171	0	0	0	0	0	‡556	1,330	1,800	1,700	597	948	‡594
1911	628	463	364	903	1,060	1,310	1,910	2,280	2,560	2,400	1,380	1,700	1,410
1912	884	1,190	1,010	*840	743	1,460	2,130	2,090	2,410	2,490	2,410	2,100	1,650
1913	608	767	1,680	861	752	1,480	1,810	2,410	2,610	2,580	2,410	2,230	1,690
1914	946	1,060	1,470	642	615	943	1,580	2,580	2,630	2,010	2,120	1,670	1,530
1915	284	123	639	556	890	1,260	1,790	2,360	2,300	1,390	726	1,160	1,120
1916	15.3	323	844	887	553	851	1,640	2,610	2,720	2,690	2,600	2,230	1,500
1917	1,780	1,150	841	*825	794	559	41.7	1,710	2,520	2,750	2,730	2,270	*1,500
1918	218	387	392	628	490	771	1,660	2,410	2,760	2,890	2,820	2,410	1,490
1919	495	8.9	675	573	644	756	1,430	2,370	2,180	1,030	271	325	898
1920	477	809	646	632	632	1,090	1,460	2,600	3,090	2,950	2,290	818	1,470
1921	570	682	646	574	584	642	1,210	2,720	2,860	3,060	2,190	1,460	1,440
1922	690	710	658	559	419	350	495	2,060	2,990	3,050	2,690	1,300	1,340
1923	563	616	561	473	483	664	1,500	2,830	2,790	2,980	2,590	1,520	1,470
1924	303	615	567	471	477	876	1,770	1,490	918	1,180	281	429	781
1925	1,160	736	632	503	494	864	1,810	2,940	3,010	2,870	2,600	1,670	1,620
1926	643	610	660	535	506	978	2,160	2,000	2,700	1,790	1,140	789	1,210
1927	1,040	1,130	681	559	501	767	1,090	2,880	3,020	3,030	2,980	2,450	1,680
1928	728	492	577	490	519	861	1,430	3,050	3,000	3,120	3,020	2,540	1,660
1929	949	434	509	400	400	506	1,110	2,860	3,070	3,040	3,030	2,510	1,580
1930	432	172	764	732	767	981	2,440	1,980	3,040	3,100	2,610	1,820	1,570
1931	109	536	502	521	451	655	1,300	2,980	2,520	2,420	1,770	568	1,200
1932	840	805	591	559	498	637	1,070	2,270	2,280	2,770	2,680	2,140	1,430
1933	754	538	581	466	415	419	868	2,220	2,850	2,510	2,740	1,910	1,360
1934	610	700	629	569	665	574	862	1,820	1,930	1,650	827	441	941
1935	215	354	182	486	412	265	40.7	1,775	2,419	2,446	1,609	1,048	942
1936	13.2	476	446	434	341	396	555	2,603	2,573	2,376	2,255	1,428	1,165
1937	706	557	464	397	292	296	278	2,112	2,326	2,852	2,563	1,176	1,176
1938	498	556	517	470	481	464	403	2,039	2,460	2,483	2,497	1,684	1,218
1939	337	535	419	399	392	404	1,247	2,511	2,441	2,524	2,498	1,256	1,252
1940	276	590	522	440	422	337	1,024	2,270	2,524	2,477	2,180	821	1,160
1941	140	446	480	417	430	408	1,117	2,266	2,125	2,522	2,321	1,056	1,149
1942	29.7	566	513	468	445	501	646	1,977	2,233	2,559	2,611	1,772	1,198
1943	24.8	510	533	496	466	561	686	2,308	2,163	2,622	2,675	2,007	1,260
1944	891	294	541	510	494	534	402	1,846	1,874	2,596	2,566	1,741	1,196
1945	729	349	507	469	469	568	616	2,230	2,181	2,720	2,658	1,714	1,275
1946	495	530	494	465	452	456	477	2,525	2,491	2,622	2,654	1,341	1,257
1947	269	416	502	442	404	363	944	2,422	1,947	2,659	2,562	1,745	1,229
1948	309	448	468	357	495	564	1,046	2,198	2,432	2,580	2,559	1,847	1,278
1949	585	511	389	394	239	322	932	2,529	2,406	2,592	2,585	1,527	1,258
1950	721	604	483	399	371	372	1,142	2,232	2,491	2,728	2,566	1,866	1,337

* Revised.
‡ Not previously published; partly estimated on the basis of known gate changes.

Monthly and yearly runoff, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1909	-	-	-	-	-	-	-	‡70,700	80,900	91,000	81,200	‡27,600	-
1910	10,500	0	0	0	0	0	‡33,100	81,800	107,000	105,000	36,700	56,400	‡430,000
1911	38,600	27,600	22,400	55,500	58,900	80,600	114,000	140,000	152,000	148,000	84,800	101,000	1,020,000
1912	54,400	70,800	62,100	*51,600	42,700	89,800	127,000	129,000	143,000	153,000	148,000	125,000	1,200,000
1913	37,400	45,600	103,000	52,900	41,800	91,000	108,000	148,000	155,000	159,000	148,000	133,000	1,220,000
1914	58,200	63,100	90,400	39,500	34,200	58,000	94,000	159,000	156,000	124,000	130,000	99,400	1,110,000
1915	17,500	7,320	39,300	34,200	49,400	77,500	107,000	145,000	137,000	85,500	44,600	69,000	813,000
1916	941	19,200	51,900	54,500	31,800	52,300	97,600	160,000	162,000	165,000	160,000	133,000	1,090,000
1917	109,000	68,400	51,700	*50,700	44,100	34,400	2,480	105,000	150,000	169,000	168,000	135,000	*1,090,000
1918	13,400	23,000	24,100	38,600	27,200	47,400	98,800	148,000	164,000	178,000	173,000	143,000	1,080,000
1919	30,400	530	41,500	35,200	35,800	46,500	85,100	146,000	130,000	63,300	16,700	19,300	650,000
1920	29,300	48,100	39,700	38,900	36,400	67,000	86,900	166,000	184,000	181,000	141,000	48,700	*1,070,000
1921	35,000	40,600	39,700	35,300	32,400	39,500	72,000	167,000	170,000	188,000	135,000	86,900	1,040,000
1922	42,400	42,200	40,500	34,400	23,300	21,500	29,500	127,000	178,000	188,000	165,000	77,400	969,000
1923	34,600	36,700	34,500	29,100	26,800	40,800	89,300	174,000	166,000	183,000	159,000	90,400	1,060,000
1924	18,600	36,600	34,900	29,000	27,400	53,900	105,000	91,600	54,600	72,600	17,300	25,500	567,000
1925	71,300	43,800	38,900	30,900	27,400	53,100	108,000	181,000	179,000	176,000	160,000	99,400	1,170,000
1926	39,500	36,300	40,600	32,900	28,100	60,100	129,000	123,000	161,000	110,000	70,100	46,900	878,000
1927	64,000	67,200	41,900	34,400	27,800	47,200	64,900	177,000	180,000	186,000	183,000	146,000	1,220,000
1928	44,800	29,300	35,500	30,100	29,900	52,900	85,100	188,000	179,000	192,000	186,000	151,000	1,200,000
1929	58,400	25,800	31,300	24,600	22,200	31,100	66,000	176,000	183,000	187,000	186,000	149,000	1,140,000
1930	26,600	10,200	47,000	45,000	42,600	60,300	145,000	122,000	181,000	191,000	160,000	108,000	1,140,000
1931	6,700	31,900	30,900	32,000	25,000	40,300	77,400	183,000	150,000	149,000	109,000	33,800	869,000
1932	51,600	47,900	36,300	34,400	28,600	39,200	63,700	140,000	136,000	170,000	165,000	127,000	1,040,000
1933	46,400	32,000	35,700	28,700	23,000	25,800	51,600	136,000	170,000	154,000	168,000	114,000	985,000
1934	37,500	41,700	38,700	35,000	36,900	35,300	51,300	112,000	115,000	101,000	50,800	26,200	681,000
1935	13,230	21,060	11,170	29,910	22,870	16,290	2,420	109,100	143,900	150,400	98,940	62,390	682,000

* Revised.
† Corrected.
‡ Not previously published; partly estimated on the basis of known gate changes.

Monthly and yearly runoff, in acre-feet, of North Side Twin Falls Canal at Milner, Idaho--Continued

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1936	811	28,320	27,450	26,660	19,590	24,380	33,040	160,000	153,100	146,100	138,600	84,990	843,000
1937	43,430	33,130	28,540	24,380	16,230	18,220	16,510	129,800	138,400	175,400	157,600	69,990	851,600
1938	30,600	33,070	31,790	28,920	26,720	28,510	23,950	125,400	146,400	152,700	153,500	100,200	881,800
1939	20,710	31,810	25,760	24,520	21,790	24,860	74,210	154,400	145,200	155,200	153,600	74,760	906,800
1940	16,950	35,100	32,080	27,070	24,290	20,720	60,920	139,600	150,200	152,300	134,100	48,850	842,200
1941	8,590	26,510	29,520	25,620	23,860	25,110	66,460	139,300	126,500	155,100	142,700	62,830	832,100
1942	1,830	33,700	31,510	28,750	24,710	30,810	38,430	121,600	132,900	157,300	160,600	105,400	867,500
1943	1,530	30,340	32,750	30,480	25,900	34,520	40,840	141,900	128,700	161,200	164,500	119,400	912,100
1944	54,790	17,500	33,280	31,340	28,420	32,820	23,930	113,500	111,500	159,600	157,800	103,600	868,100
1945	44,820	20,760	31,200	28,810	26,040	34,950	36,620	137,100	129,800	167,300	163,500	102,000	922,900
1946	30,440	31,520	30,350	28,570	25,080	28,060	28,380	155,200	148,200	161,200	163,200	79,790	910,000
1947	16,520	24,740	30,880	27,180	22,420	22,330	56,190	148,900	115,900	163,500	157,500	103,800	889,900
1948	18,990	26,670	28,770	21,960	28,470	34,650	62,270	135,100	144,700	158,600	157,300	109,900	927,400
1949	35,940	30,430	23,920	24,240	13,250	19,830	55,490	155,500	143,200	159,400	158,900	90,850	911,000
1950	44,360	35,930	29,690	24,540	20,620	22,850	67,940	137,200	148,200	167,800	157,800	111,000	967,900

Yearly discharge, in cubic feet per second

Year	W.S.P. no.	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Runoff in acre-feet	Mean	Runoff in acre-feet
		Discharge	Date					
1909	272	a1,530	July 31, 1909	0	-	-	-	-
1910	292	a2,280	July 13, 1910	0	‡594	‡430,000	‡702	‡509,000
1911	312	a2,690	June 24, 1911	0	1,410	1,020,000	1,550	1,120,000
1912	332,1347	a2,710	Aug. 4, 1912	15	1,650	1,200,000	1,650	1,200,000
1913	362	a2,800	(b)	21	1,690	1,220,000	1,720	1,250,000
1914	393	a2,680	May21,22,1914	0	1,530	1,110,000	1,320	958,000
1915	413	a2,600	June 14, 1915	0	1,120	813,000	1,130	821,000
1916	443	2,880	June20,22,1916	0	1,500	1,090,000	1,720	1,250,000
1917	463,1347	2,930	July 26, 1917	0	*1,500	*1,090,000	*1,270	*919,000
1918	483	2,970	July 16, 1918	0	1,490	1,080,000	1,510	1,090,000
1919	513	3,010	May 31, 1919	0	898	650,000	959	695,000
1920	513	3,170	May 28, 1920	0	1,470	†1,070,000	1,470	†1,070,000
1921	533	3,200	(b)	0	1,440	1,040,000	1,450	1,050,000
1922	553	3,110	July 25, 1922	0	1,340	969,000	1,310	950,000
1923	573	3,090	Aug. 1, 1923	0	1,470	1,060,000	1,450	1,050,000
1924	593	3,020	May 9, 1924	0	781	567,000	869	631,000
1925	613	3,140	July 24, 1925	0	1,620	1,170,000	1,560	1,130,000
1926	633	3,010	Apr. 25, 1926	0	1,210	878,000	1,290	934,000
1927	653	3,080	June 29, 1927	0	1,680	1,220,000	1,600	1,160,000
1928	673	3,200	May 15, 1928	0	1,660	1,200,000	1,660	1,210,000
1929	693	3,200	(b)	0	1,580	1,140,000	1,530	1,110,000
1930	708	3,160	July 14, 1930	0	1,570	1,140,000	1,550	1,120,000
1931	723	3,190	June 4, 1931	0	1,200	869,000	1,290	935,000
1932	738	2,970	May 18, 1932	0	1,430	1,040,000	1,400	1,020,000
1933	753	2,960	(b)	0	1,360	985,000	1,370	989,000
1934	768	2,350	June18-20,1934	0	941	681,000	841	609,000
1935	793	2,600	July 18, 1935	0	942	682,000	957	692,800
1936	813	3,160	May 30, 1936	0	1,165	843,000	1,228	891,600
1937	833	2,990	July 14, 1937	0	1,176	851,600	1,163	842,000
1938	863	2,790	July 25, 1938	0	1,218	881,800	1,194	864,600
1939	883	2,620	July 29, 1939	0	1,252	906,800	1,261	912,700
1940	903	2,680	June 23, 1940	0	1,160	842,200	1,133	822,700
1941	933	2,640	(b)	0	1,149	832,100	1,153	834,500
1942	963	2,710	Aug. 5, 1942	0	1,198	867,500	1,195	865,100
1943	983	2,750	Aug. 22, 1943	0	1,260	912,100	1,317	953,000
1944	1013	2,680	July 20, 1944	0	1,196	868,100	1,184	859,300
1945	1043	2,840	July 11, 1945	0	1,275	922,900	1,269	918,400
1946	1063	2,780	Aug.8,12,1946	0	1,257	910,000	1,229	889,800
1947	1093	2,850	July 10, 1947	0	1,229	889,900	1,232	892,200
1948	1123	2,740	July 30, 1948	0	1,278	927,400	1,300	943,200
1949	1153	2,750	Aug. 15, 1949	0	1,258	911,000	1,285	930,600
1950	1183	2,880	July 20, 1950	0	1,337	967,900	-	-

* Revised.
† Corrected.
‡ Not previously published.

a Maximum observed.
b Recorded on several days.

149. South Side Twin Falls Canal at Milner, Idaho

Location.--Lat 42°31', long. 114°01', in sec. 29, T. 10 S., R. 21 E., on left bank 50 ft upstream from highway bridge and 700 ft downstream from headgates on Snake River at Milner Dam.

Gage.--Water-stage recorder. Datum of gage is 4,121.5 ft above mean sea level, datum of 1929. Prior to May 13, 1913, staff-gage and May 13, 1913, to Apr. 24, 1914, water-stage recorder 50 ft downstream at same datum.

Average discharge.--24 years (1926-50), 1,748 cfs.

Extremes.--1909-50: Maximum daily discharge, 4,600 cfs Aug. 12, 1918, including about 1,200 cfs wasted through spillway below station and returned to river. Maximum discharge for irrigation use, 3,770 cfs July 28, 1950 (gage height, 10.54 ft); no flow Sept. 20, 1920.

Remarks.--Canal diverts water from Snake River for irrigation of 202,000 acres of land in Twin Falls County. Diversions began in March 1905 but no records of amount diverted were kept until May 1909. Irrigated area increased from 30,000 acres in 1905 to 147,000 acres in 1912. An unmeasured amount of the flow passing station was returned to the river downstream at times during the years 1916-18, 1921-23, and possibly during other years not reported.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1909	-	-	-	-	-	-	-	‡1,250	2,200	2,500	2,170	‡1,020	-
1910	772	470	*320	*320	*320	282	840	2,010	2,790	2,460	1,780	1,530	*1,160
1911	642	689	621	*534	482	478	652	1,870	2,670	2,940	2,480	1,800	*1,320
1912	1,030	710	*637	*585	*540	556	585	1,440	2,720	2,940	2,700	1,520	*1,330
1913	903	696	*585	*580	*560	*520	497	2,020	2,800	3,030	2,940	1,830	*1,420
1914	894	735	*733	*538	*527	490	1,040	2,720	3,000	3,090	2,530	1,870	*1,520
1915	868	772	*746	*752	648	548	1,570	2,370	2,900	2,310	1,910	1,930	*1,450
1916	1,060	691	*668	*670	*575	776	1,300	3,100	3,420	3,590	3,260	2,880	*1,840
1917	2,760	2,160	‡1,800	‡1,470	‡1,370	‡1,570	759	905	3,210	3,550	3,400	2,770	‡2,150
1918	1,570	990	710	605	553	‡743	1,980	3,320	3,540	3,500	3,460	2,930	‡2,000
1919	1,620	603	664	556	524	489	927	3,390	3,100	2,290	1,930	1,970	1,510
1920	1,660	718	578	509	474	564	1,310	3,160	3,480	3,440	3,060	2,690	1,810
1921	1,480	595	584	580	541	555	1,150	2,460	2,960	3,560	3,150	2,390	1,670
1922	1,940	538	504	625	577	470	570	2,530	3,490	3,610	3,140	2,800	1,740
1923	1,670	516	677	670	672	590	1,410	3,120	2,960	3,450	3,290	2,620	1,810
1924	1,180	777	683	675	552	553	1,840	2,940	2,550	2,050	2,370	2,130	1,530
1925	1,140	644	603	540	527	618	1,260	2,960	3,140	3,340	3,180	2,320	1,700
1926	1,260	664	687	666	659	811	2,180	3,000	3,010	3,020	2,290	2,330	1,719
1927	1,670	890	639	705	676	704	883	2,720	3,200	3,530	3,600	2,680	1,830
1928	1,300	701	834	888	791	546	1,030	3,210	3,480	3,580	3,550	2,520	1,880
1929	1,200	668	680	680	680	622	607	3,100	3,400	3,580	3,600	2,350	†1,770
1930	1,110	643	730	782	644	594	2,250	2,510	3,090	3,640	3,130	2,190	1,780
1931	1,060	737	779	768	653	689	1,290	3,160	3,020	3,340	3,300	1,950	1,740
1932	928	726	753	739	701	493	803	2,520	2,690	3,450	3,620	2,900	1,700
1933	1,190	724	740	736	726	550	1,430	3,210	3,380	3,540	3,630	2,730	1,890
1934	1,270	635	748	748	652	904	2,160	2,720	2,590	2,850	3,110	2,090	1,710
1935	1,297	530	587	593	475	486	607	2,712	2,997	3,281	3,413	2,667	1,646
1936	1,191	568	586	520	378	524	905	3,395	3,275	3,560	3,558	2,383	1,744
1937	1,278	594	639	586	562	538	956	3,105	3,013	3,532	3,513	2,423	1,738
1938	1,158	454	573	518	462	499	921	3,035	3,137	3,225	3,495	2,803	1,699
1939	1,044	519	605	585	566	511	2,114	3,380	3,283	3,494	3,588	2,531	1,859
1940	819	612	610	562	523	514	1,174	3,112	3,379	3,578	3,576	2,122	1,720
1941	692	562	601	579	557	465	1,699	3,152	2,921	3,397	3,480	2,313	1,709
1942	847	646	608	559	522	529	1,383	2,852	2,970	3,447	3,519	2,504	1,706
1943	1,008	645	592	597	566	460	1,633	3,261	2,784	3,474	3,597	2,616	1,778
1944	1,051	569	617	572	530	469	897	2,597	2,495	3,443	3,542	2,703	1,629
1945	1,095	569	603	555	508	448	887	3,001	2,936	3,474	3,533	2,627	1,695
1946	821	696	596	586	549	439	1,307	3,286	3,251	3,465	3,530	2,239	1,739
1947	795	540	560	568	539	505	1,533	3,442	2,663	3,583	3,581	2,367	1,749
1948	843	622	571	524	497	430	1,418	3,288	3,270	3,497	3,621	2,525	1,764
1949	682	574	515	492	436	449	1,446	3,428	3,238	3,568	3,535	2,429	1,741
1950	813	510	511	457	436	311	1,140	3,168	3,381	3,609	3,565	2,764	1,730

* Revised.
† Corrected.
‡ Not previously published; partly estimated on the basis of known gate openings.

Monthly and yearly runoff, in acre-feet

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1909	-	-	-	-	-	-	-	‡77,000	131,000	154,000	133,000	‡60,900	-
1910	47,500	28,000	*19,700	*19,700	*17,800	17,300	50,000	124,000	166,000	151,000	109,000	91,000	*841,000
1911	39,500	41,000	38,200	*32,900	26,800	29,400	38,800	115,000	159,000	181,000	152,000	107,000	*961,000
1912	63,300	42,200	*39,200	*36,000	*31,000	34,200	34,800	88,500	162,000	181,000	166,000	90,400	*969,000
1913	55,500	41,400	*36,000	*35,700	*31,100	*32,000	29,600	124,000	167,000	186,000	181,000	109,000	*1,030,000
1914	55,000	43,700	*45,100	*33,100	*29,300	30,100	61,900	167,000	179,000	190,000	156,000	111,000	*1,100,000
1915	53,400	45,900	*45,900	*46,300	36,000	33,700	93,400	146,000	173,000	142,000	117,000	115,000	*1,050,000

* Revised.
‡ Not previously published; partly estimated on basis of known gate openings.

Monthly and yearly runoff, in acre-feet, of South Side Twin Falls Canal at Milner, Idaho--Continued

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1916	65,200	41,100	*41,100	*41,200	*33,100	47,700	77,400	191,000	204,000	221,000	200,000	171,000	*1,330,000
1917	170,000	129,000	‡111,000	‡90,400	‡76,000	‡96,600	45,200	55,600	191,000	218,000	209,000	165,000	‡1,560,000
1918	96,500	58,900	43,700	37,200	30,700	‡45,700	118,000	204,000	211,000	215,000	213,000	174,000	‡1,450,000
1919	99,800	35,900	40,800	34,200	29,100	30,100	55,200	208,000	184,000	141,000	119,000	117,000	1,090,000
1920	102,000	42,700	35,500	31,300	27,300	34,700	78,000	194,000	207,000	212,000	188,000	160,000	1,310,000
1921	91,000	35,400	35,900	35,700	30,000	34,100	68,400	151,000	176,000	219,000	194,000	142,000	1,210,000
1922	119,000	32,000	31,000	38,400	32,000	28,900	33,900	156,000	208,000	222,000	193,000	167,000	1,260,000
1923	103,000	30,700	41,600	41,200	37,300	36,300	83,900	192,000	176,000	212,000	202,000	156,000	1,310,000
1924	72,600	46,200	42,000	41,500	31,800	34,000	109,000	181,000	152,000	126,000	146,000	127,000	1,110,000
1925	70,100	38,300	37,100	33,200	29,300	38,000	75,000	182,000	187,000	205,000	196,000	138,000	1,230,000
1926	77,500	39,500	42,200	41,000	36,600	49,900	130,000	184,000	179,000	186,000	141,000	139,000	1,250,000
1927	103,000	53,000	39,300	43,300	37,500	43,300	52,500	167,000	190,000	217,000	221,000	159,000	1,330,000
1928	79,900	41,700	51,300	54,600	45,500	33,600	61,300	197,000	207,000	220,000	218,000	150,000	1,360,000
1929	73,800	39,700	41,800	41,800	37,800	38,200	36,100	191,000	202,000	220,000	221,000	140,000	1,280,000
1930	68,200	38,300	44,900	48,100	35,800	36,500	134,000	154,000	184,000	224,000	192,000	130,000	1,290,000
1931	65,200	43,900	47,900	47,200	36,300	42,400	76,800	194,000	180,000	205,000	203,000	116,000	1,260,000
1932	57,100	43,200	46,300	45,400	40,300	30,300	47,800	155,000	160,000	212,000	223,000	173,000	1,230,000
1933	73,200	43,100	45,500	45,300	40,300	33,800	85,100	197,000	201,000	218,000	223,000	162,000	1,370,000
1934	78,100	37,800	46,000	46,000	36,200	55,600	129,000	167,000	154,000	175,000	191,000	124,000	1,240,000
1935	79,780	31,540	36,090	36,440	26,400	29,880	36,130	166,700	178,300	201,700	209,900	158,700	1,192,000
1936	73,240	33,810	36,040	31,960	21,750	32,220	53,860	208,700	194,900	219,100	218,800	141,800	1,266,000
1937	78,600	35,360	39,280	36,020	31,190	33,070	56,860	190,900	179,300	217,200	216,000	144,200	1,258,000
1938	71,210	27,020	35,230	31,880	25,640	30,690	54,810	186,600	186,700	198,300	214,900	166,800	1,230,000
1939	64,170	30,860	37,200	36,000	31,420	31,390	125,800	207,800	195,400	214,800	220,600	150,600	1,346,000
1940	50,360	36,420	37,490	34,570	30,100	31,610	69,870	191,400	201,100	220,000	219,900	126,200	1,249,000
1941	42,550	33,410	36,980	35,580	30,930	28,600	101,100	193,800	173,800	208,900	214,000	137,600	1,237,000
1942	52,050	38,430	37,380	34,340	28,960	32,530	82,290	175,300	176,700	212,000	216,400	149,000	1,235,000
1943	61,980	38,410	36,390	36,680	31,420	28,280	97,190	200,500	165,700	213,600	221,200	155,700	1,287,000
1944	64,630	33,840	37,910	35,180	30,490	28,830	53,350	159,700	148,400	211,700	217,800	160,800	1,183,000
1945	67,300	33,840	37,100	34,100	28,240	27,550	52,800	184,500	174,700	213,600	217,200	156,300	1,227,000
1946	50,450	41,400	36,650	36,040	30,470	27,000	77,780	202,100	193,500	213,000	217,000	133,200	1,259,000
1947	48,900	32,160	34,420	34,950	29,910	31,040	91,200	211,600	170,400	220,300	220,200	140,900	1,266,000
1948	51,850	37,020	35,100	32,200	28,590	26,410	84,350	202,200	194,600	215,000	222,700	150,200	1,280,000
1949	41,960	34,170	31,650	30,250	24,200	27,620	86,010	210,800	192,700	219,400	217,400	144,600	1,261,000
1950	50,020	30,360	31,410	28,110	24,240	19,110	67,860	194,500	201,200	221,900	219,200	164,500	1,252,000

* Revised.
‡ Not previously published; partly estimated on the basis of known gate openings.

Yearly discharge, in cubic feet per second

Year	W.S.P. no.	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Runoff in acre-feet	Mean	Runoff in acre-feet
		Discharge	Date					
1909	272	a2,620	July 23, 1909	-	-	-	-	-
1910	292,1347	a3,040	July 9, 1910	105	*1,160	*841,000	*1,190	*864,000
1911	312,1347	a3,240	July18-20,1911	85	*1,320	*961,000	*1,360	*987,000
1912	332,1347	a3,120	July 9, 1912	30	*1,330	*969,000	*1,320	*957,000
1913	362,1347	a3,250	July22,23,1913	11	*1,420	*1,030,000	*1,430	*1,040,000
1914	393,1347	a3,190	(b)	87	*1,520	*1,100,000	*1,520	*1,100,000
1915	413,1347	3,250	(b)	94	*1,450	*1,050,000	*1,450	*1,050,000
1916	443,1347	3,670	(b)	94	*1,840	*1,330,000	‡2,200	‡1,600,000
1917	463	3,690	(b)	23	‡2,150	‡1,560,000	‡1,860	‡1,350,000
1918	483	4,600	Aug. 12, 1918	120	‡2,000	‡1,450,000	‡1,970	‡1,420,000
1919	513	3,840	June 3, 1919	116	1,510	1,090,000	1,520	1,100,000
1920	513	3,610	Aug. 13, 1920	0	1,810	1,310,000	1,780	1,300,000
1921	533	3,640	June 19, 1921	52	1,670	1,210,000	1,700	1,230,000
1922	553	3,710	July 22, 1922	9	1,740	1,260,000	1,730	1,250,000
1923	573	3,670	July 16, 1923	76	1,810	1,310,000	1,790	1,300,000
1924	593	3,470	May 9, 1924	49	1,530	1,110,000	1,510	1,090,000
1925	613	3,710	June 11, 1925	40	1,700	1,230,000	1,720	1,240,000
1926	633	3,600	May 3, 1926	53	1,719	1,250,000	1,770	1,280,000
1927	653	3,730	July 12, 1927	180	1,830	1,330,000	1,800	1,300,000
1928	673	3,750	Aug. 16, 1928	103	1,880	1,360,000	1,850	1,340,000
1929	693	3,630	(b)	105	†1,770	1,280,000	†1,770	1,280,000
1930	708	3,760	July 11, 1930	67	1,780	1,290,000	1,790	1,300,000
1931	723	3,530	July 28, 1931	84	1,740	1,260,000	1,720	1,250,000
1932	738	3,700	Aug. 21, 1932	100	1,700	1,230,000	1,720	1,250,000
1933	753	3,720	Aug. 19, 1933	115	1,890	1,370,000	1,890	1,370,000
1934	768	3,390	Aug. 9, 1934	103	1,710	1,240,000	1,693	1,225,000
1935	793	3,480	Aug. 17, 1935	106	1,646	1,192,000	1,640	1,187,000
1936	813	3,620	July 18, 1936	45	1,744	1,266,000	1,758	1,276,000
1937	833	3,640	July 26, 1937	68	1,738	1,258,000	1,710	1,238,000
1938	863	3,530	Aug.7,8, 1938	40	1,699	1,230,000	1,697	1,229,000
1939	883	3,620	Aug.21-23,1939	15	1,859	1,346,000	1,848	1,338,000
1940	903	3,640	July 21, 1940	35	1,720	1,249,000	1,705	1,238,000

* Revised.
† Corrected.
‡ Not previously published.

a Maximum observed.
b Maximum recorded on several days.

Yearly discharge, in cubic feet per second, of South Side Twin Falls Canal at Milner, Idaho--Con.

Year	W.S.P. no.	Water year ending Sept. 30					Calendar year	
		Momentary maximum		Minimum day	Mean	Runoff in acre-feet	Mean	Runoff in acre-feet
		Discharge	Date					
1941	933	3,610	July 23, 1941	35	1,709	1,237,000	1,730	1,252,000
1942	963	3,600	July 25, 1942	25	1,706	1,235,000	1,719	1,244,000
1943	983	3,670	July 31, 1943	35	1,778	1,287,000	1,777	1,287,000
1944	1013	3,600	July 31, 1944	60	1,629	1,183,000	1,632	1,184,000
1945	1043	3,630	July 31, 1945	60	1,695	1,227,000	1,682	1,217,000
1946	1063	3,620	July 25, 1946	60	1,739	1,259,000	1,721	1,246,000
1947	1093	3,730	July 10, 1947	42	1,749	1,266,000	1,760	1,274,000
1948	1123	3,730	Aug. 23, 1948	10	1,764	1,280,000	1,741	1,264,000
1949	1153	3,690	Aug. 15, 1949	14	1,741	1,261,000	1,747	1,265,000
1950	1183	3,770	July 28, 1950	15	1,730	1,252,000	-	-

SNAKE RIVER MAIN STEM

150. Snake River at Milner, Idaho

Location.--Lat 42°32', long. 114°01', in sec. 29, T. 10 S., R. 21 E., at Milner, a third of a mile downstream from Milner dam.

Drainage area.--17,180 sq mi, approximately.

Gage.--Water-stage recorder. Datum of gage is 4,062.9 ft above mean sea level, datum of 1929. Prior to May 28, 1919, staff gage about 600 ft upstream at different datum.

Average discharge.--24 years (1926-50), 1,873 cfs.

Extremes.--1909-50: Maximum discharge (revised), 40,000 cfs June 21, 1918 (gage height, 19.9 ft, site and datum then in use); minimum, 2 cfs Mar. 17-28, 1936 (gage height, 1.18 ft).

Remarks.--Flow regulated by various upstream reservoirs with a combined capacity of about 3,300,000 acre-ft. About 1,340,000 acres of land irrigated by diversions from river and its tributaries above station, from which the return flow in large part enters Snake River between Milner and King Hill stations. Flow includes some water released for use downstream by Idaho Power Co.

Monthly and yearly mean discharge, in cubic feet per second

Water year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	The year
1909	-	-	-	-	-	-	-	-	-	-	-	-	-
1910	*7,090	*7,930	*6,980	*5,720	*5,390	*11,000	*14,700	*13,600	*29,200	*15,600	*4,900	*7,860	-
								*17,900	*5,790	*367	43	*596	*6,960
1911	*3,000	*5,130	*5,120	*5,110	*6,310	*6,040	*4,730	*12,500	*22,200	*5,870	50	*541	*6,360
1912	4,520	*4,690	*4,920	‡5,500	5,470	*4,250	4,340	11,600	*22,700	*9,070	*3,720	*8,460	*7,420
1913	9,500	8,150	3,710	4,400	4,700	4,780	9,550	15,400	21,500	8,240	1,540	5,050	8,030
1914	8,600	7,550	5,060	5,510	5,710	6,240	9,580	13,900	16,900	2,190	28	1,680	6,900
1915	*7,860	*7,980	‡5,500	‡5,600	‡5,500	4,640	3,580	2,840	3,820	11	12	43	‡3,940
1916	*5,270	*5,620	*4,760	‡4,200	‡5,680	6,880	9,070	11,700	10,700	4,640	652	737	‡5,820
1917	3,830	4,000	3,930	‡3,130	‡3,750	‡3,970	8,390	17,000	20,800	12,700	318	1,680	‡6,960
1918	‡5,440	‡5,800	‡6,350	‡5,430	5,180	5,410	4,840	5,040	24,400	4,650	1,590	1,290	‡6,260
1919	4,380	6,490	4,920	4,490	4,730	5,650	6,990	2,280	363	22	14	37	3,350
1920	1,600	3,710	3,330	3,680	4,170	3,240	2,430	8,410	5,400	360	18	391	3,060
1921	3,640	5,930	5,090	5,050	5,290	5,680	5,690	14,800	16,000	137	55	1,370	5,700
1922	1,960	4,990	5,610	4,030	4,560	6,000	6,650	12,800	7,580	106	117	16	4,530
1923	1,020	5,420	4,940	5,270	4,070	4,670	4,030	7,170	7,660	981	94	10	3,770
1924	4,490	5,490	4,930	3,970	5,470	3,910	857	14	12	12	10	10	2,420
1925	9	3,720	3,340	2,950	5,020	3,980	7,560	11,300	6,350	4,270	203	1,470	4,170
1926	5,180	6,130	5,980	4,700	5,530	4,810	2,510	17	13	12	11	19	2,900
1927	17	185	980	2,770	1,540	815	759	3,100	11,900	6,070	49	893	2,420
1928	1,320	6,440	8,710	7,080	6,960	6,630	5,370	16,200	6,180	402	87	†610	5,500
1929	5,220	3,050	3,750	2,800	2,310	4,980	9,040	1,530	342	73	72	1,030	2,850
1930	1,430	6,370	4,580	5,510	2,520	341	50	19	39	19	66	316	1,770
1931	765	3,080	4,170	1,600	1,010	335	48	13	11	10	89	11	930
1932	854	988	757	838	1,400	841	65	32	18	102	12	17	492
1933	438	525	1,330	1,120	1,320	1,050	472	29	14	15	10	10	524
1934	605	467	567	581	504	87	9	11	8	8	7	110	246
1935	141	142	356	385	260	141	16	10	43	9	100	271	156
1936	305	304	347	424	357	167	96	4,014	4,300	109	123	259	1,064
1937	300	300	281	996	381	1,002	3,046	1,897	29	118	201	218	732
1938	264	291	327	360	213	170	5,983	5,353	5,801	4,606	9	48	1,955
1939	458	488	740	2,118	3,471	5,715	4,078	775	8	9	9	166	1,490
1940	339	442	428	436	532	198	1,398	131	9	10	71	212	348

* Revised.
† Corrected.
‡ Not previously published; partly estimated on the basis of records for nearby Snake River stations.