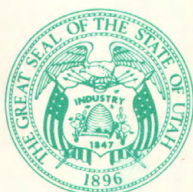
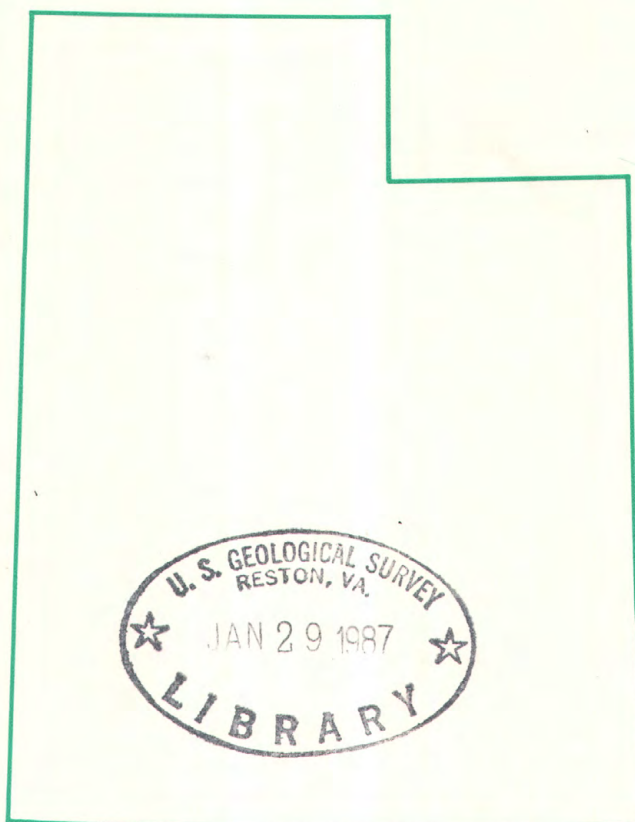


00)
3
ah
85



Water Resources Data Utah Water Year 1985



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-85-1

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

CALENDAR FOR WATER YEAR 1985

1984

OCTOBER

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

NOVEMBER

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

DECEMBER

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

1985

JANUARY

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

FEBRUARY

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

MARCH

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

APRIL

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

MAY

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

JUNE

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

JULY

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

AUGUST

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

SEPTEMBER

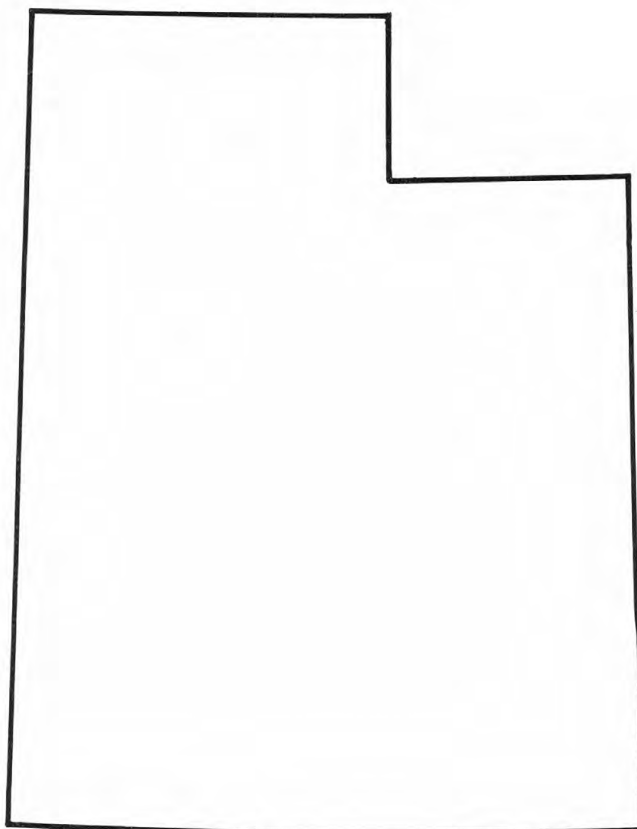
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					



Water Resources Data Utah

Water Year 1985

by M.D. ReMillard, G.C. Andersen, G.A. Birdwell, and G.W. Sandberg



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-85-1
Prepared in cooperation with the State of Utah
and with other agencies

PREFACE

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

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

David Allen
Michael Bandhauer
Donald M. Batty
Donald Bischoff
Carole B. Burden
Dixie D. Canny
Stephanie Dragos
Michael Eckenwiler
Deloy C. Emett
Richard B. Garrett

Kevin Guttormson
Larry R. Herbert
V. Lambert Jensen
Rolaine King
Mark Mastin
Vickie McEwen
Jerry C. McNeely
Richard Puchta
D. Michael Roark
George W. Sandberg

Bradley Sether
Cynthia Smith
Greg Smith
Jean D. Snyder
James Sory
Kendall R. Thompson
James R. Tibbetts
Doris A. Vandruff
Dale E. Willberg
John Yarbrough

This report was prepared in cooperation with the State of Utah and with other agencies under the general supervision of T. Arnow, District Chief, Utah.

REPORT DOCUMENTATION PAGE	1. REPORT NO. USGS/WRD/HD-86/250	2.	3. Recipient's Accession No.
4. Title and Subtitle Water Resources Data for Utah, Water Year 1985		5. Report Date July 1986	
7. Author(s) Michael D. ReMillard, G. C. Andersen, G. A. Birdwell and G. W. Sandberg		8. Performing Organization Rept. No. USGS-WDR-UT-85-1	
9. Performing Organization Name and Address U.S. Geological Survey, Water Resources Division 1016 Administration Building 1745 West, 1700 South Salt Lake City, Utah 84104		10. Project/Task/Work Unit No.	
12. Sponsoring Organization Name and Address U.S. Geological Survey, Water Resources Division 1016 Administration Building 1745 West, 1700 South Salt Lake City, Utah 84104		11. Contract(C) or Grant(G) No. (C) (G)	
		13. Type of Report & Period Covered ANNUAL - Oct. 1, 1984 to Sept. 30, 1985	
15. Supplementary Notes Prepared in cooperation with the State of Utah and with other agencies.		14.	
16. Abstract (Limit: 200 words) Water resources data for the 1985 water year for Utah consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 198 gaging stations; stage and contents for 17 lakes and reservoirs; water quality for 24 hydrologic stations and 186 wells; miscellaneous temperature measurements and field determinations for 157 stations; and water levels for 31 observation wells. Additional water data were collected at various sites not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Utah.			
17. Document Analysis a. Descriptors *Utah, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses b. Identifiers/Open-Ended Terms c. COSATI Field/Group			
18. Availability Statement: No restriction on distribution This report may be purchased from: National Technical Information Service Springfield, VA 22161		19. Security Class (This Report) UNCLASSIFIED	21. No. of Pages 400
		20. Security Class (This Page) UNCLASSIFIED	22. Price

CONTENTS

V
Page

Preface	III
List of hydrologic stations, in downstream order, for which records are published	VI
List of ground-water wells, by county, for which records are published	IX
Introduction	1
Cooperation	1
Summary of hydrologic conditions	2
Surface water	2
Water quality	5
Ground water	9
References cited	16
Definition of terms	17
Downstream order and station numbers	20
Numbering system for wells and miscellaneous sites	20
Special networks and programs	22
Explanation of stage- and water-discharge records	22
Collection and computation of data	22
Accuracy of field data and computed results	23
Other data available	24
Records of discharge collected by agencies other than the Geological Survey	24
Explanation of water-quality records	24
Collection and examination of data	24
Water analysis	24
Water temperature	24
Sediment	24
Explanation of ground-water level records	25
Collection of data	25
Access to WATSTORE data	25
Publications on techniques of water-resources investigations	26
Gaging-station records	31
Discharge measurements at partial record stations and miscellaneous sites	339
Great Salt Lake	
Southern Pacific Transportation Co. causeway (discharge measurements)	340
Miscellaneous temperature measurements and field determinations	342
Ground-water records:	
Ground-water level records	371
Quality of ground-water records	382
Index	397

ILLUSTRATIONS

Figure 1. Map showing precipitation recording sites	2
2. Graph showing comparisons of discharge during the 1985 water year with median and maximum discharge for the 1951-80 water years at seven long-term representative gaging stations	3
3-7. Graphs showing:	
3. Changes in chloride concentration at well in Salt Lake County	6
4. Changes in dissolved-solids concentration at well in Pahvant Valley	7
5. Variation in concentrations of total phosphorus in water from Scofield Reservoir, 1979-84	7
6. Population fluctuations of blue-green algae and a species of diatom in Scofield Reservoir, 1981-84	8
7. Total and fish-habitable water stored in Scofield Reservoir during the 1981 fishkill	9
8. Map showing areas of ground-water development	10
9. Graph showing ground-water withdrawals in Utah	11
10. Map showing change of water levels in Pahvant Valley from March 1982 to March 1985	12
11-14. Hydrographs of wells:	
11. In Pahvant Valley	13
12. In the Milford area of Escalante Valley	13
13. In the Beryl-Enterprise area of Escalante Valley	14
14. In Salt Lake Valley	14
15. Map showing change of water levels in the East Shore Area from March 1982 to March 1985	15
16. Hydrograph of well in the East Shore area	16
17-18. Diagrams showing:	
17. System for numbering wells and miscellaneous sites (latitude and longitude)	20
18. System for numbering wells (township and range)	21
19-22. Maps showing:	
19. Location of gaging stations in Utah	27
20. Location of surface-water-quality stations in Utah	30
21. Location of sites in Utah where data were obtained on the specific conductance and temperature of surface water	341
22. Location of observation wells in Utah where data were obtained on ground-water levels	370

TABLES

Table A. Fish kills in Scofield Reservoir and minimum reservoir water storage, ratio of inflow to outflow, and discharge for Fish Creek	9
---	---

[Letter after station name designates type of data: (d) discharge, (e) elevation or contents, (c) chemical, (b) biological, (t) water temperature, (s) sediment.]

Page

COLORADO RIVER BASIN	
Colorado River near Colorado-Utah State line (d)	31
TRIBUTARIES BETWEEN UTAH-COLORADO STATE LINE AND DOLORES RIVER	
Cottonwood Wash at I-70, near Cisco (d,c,s)	32
DOLORES RIVER BASIN	
Dolores River near Cisco (d,c,b,t,s)	35
Colorado River near Cisco (d,c,b,t,s)	40
TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER	
Courthouse Wash near Moab (d)	46
Mill Creek near Moab (d)	47
Indian Creek below Bogus Pocket, near Monticello (d,c,s)	48
GREEN RIVER BASIN	
Green River near Green River, WY (d)	51
Blacks Fork near Robertson, WY (d)	52
Blacks Fork near Millburne, WY (d)	53
East Fork of Smiths Fork near Robertson, WY (d)	54
Henrys Fork:	
Henrys Fork near Manila (d)	55
Flaming Gorge Reservoir at Flaming Gorge Dam (e)	56
Green River near Greendale (d,c,t,s)	57
Pot Creek above diversions, near Vernal (d)	62
Green River near Jensen (d,c,t,s)	63
Big Brush Creek above Red Fleet Reservoir, near Vernal (d)	68
Ashley Creek near Vernal (d)	69
Mosby Canal near LaPoint (d)	70
Dry Fork:	
North Fork of Dry Fork near Dry Fork (d)	71
Brownie Canyon Creek above sinks, near Dry Fork (d)	72
Dry Fork at mouth, near Dry Fork (d)	73
Duchesne River:	
West Fork Duchesne River near Hanna (d)	74
Duchesne River near Tabiona (d)	75
South Fork Rock Creek near Hanna (d)	76
Rock Creek near Hanna (d)	77
Rock Creek near Mountain Home (d)	78
Rock Creek near Talmage (d)	79
Duchesne River above Knight diversion, near Duchesne (d)	80
Strawberry River:	
Strawberry River near Soldier Springs (d)	81
Red Creek:	
Currant Creek below Currant Creek Dam, near Fruitland (d)	82
Currant Creek near Fruitland (d)	83
Avintaquin Creek:	
West Fork Avintaquin Creek near Fruitland (d)	84
Strawberry River near Duchesne (d)	85
Antelope Creek:	
Sowers Creek near Duchesne (d)	86
Lake Fork River above Moon Lake, near Mountain Home (d)	87
Moon Lake Reservoir near Mountain Home (e)	88
Lake Fork River below Moon Lake, near Mountain Home (d)	89
Yellowstone River near Altonah (d)	90
Duchesne River at Myton (d)	91
Whiterocks River near Whiterocks (d)	92
Duchesne River near Randlett (d,c,t,s)	93
White River near Colorado-Utah State line (d,c,t,s)	98
Bitter Creek near Bonanza (d)	105
White River at mouth, near Ouray (d,c,b,s)	106
Nine Mile Creek:	
Minnie Maud Creek near Myton (d)	113
Fish Creek (head of Price River):	
Gooseberry Creek:	
Fairview Tunnel near Fairview (d)	114
Gooseberry Creek near Scofield (d)	115
Fish Creek above reservoir, near Scofield (d)	116
Mud Creek:	
Mud Creek below Winter Quarters Canyon, at Scofield (d)	117
Scofield Reservoir near Scofield (e)	118
White River below Tabbyune Creek, near Soldier Summit (d)	119
Beaver Creek near Soldier Summit (d)	120
Willow Creek near Castle Gate (d)	121
Price River below Miller Creek, near Wellington (d)	122
Desert Seep Wash near Wellington (d)	123
Price River at Woodside (d,c,s)	124
Green River at Green River (d,c,b,t,s)	128
Little Grand Wash:	
Floy Wash near Green River (d,c,s)	134
Huntington Creek (head of San Rafael River):	
Cottonwood Creek:	
Ephraim Tunnel near Ephraim (d)	137
Spring City Tunnel near Spring City (d)	138
Joos Valley Reservoir near Orangeville (e)	139
Ferron Creek (upper station) near Ferron (d)	140
Ferron Creek below Paradise Ranch, near Clawson (d)	141
San Rafael River near Castle Dale (d)	142
San Rafael River at San Rafael Bridge Campground, near Castle Dale (d)	143
San Rafael River near Green River (d,c,s)	144

COLORADO RIVER BASIN--Continued

DIRTY DEVIL RIVER BASIN

Fremont River (head of Dirty Devil River):

Seven Mile Creek near Fish Lake (d)	149
Fremont River near Bicknell (d)	150
Fremont River near Caineville (d)	151
Bull Creek near Hanksville (d,c,s)	152
Muddy Creek near Emery (d)	156
Muddy Creek below Interstate Highway I-70, near Emery (d,c,s)	157
Muddy Creek at Delta Mine, near Hanksville (d,c,s)	160
Dirty Devil River above Poison Spring Wash, near Hanksville (d)	163

ESCALANTE RIVER BASIN

North Creek (head of Escalante River):

Pine Creek near Escalante (d)	164
Escalante River near Escalante (d)	165

SAN JUAN RIVER BASIN

San Juan River at Shiprock, NM (d)	166
--	-----

Montezuma Creek:

North Creek above Ranger station, near Monticello (d)	167
Montezuma Creek at Golf Course, at Monticello (d)	168
Recapture Creek near Blanding (d)	169
Recapture Creek below Johnson Creek, near Blanding (d)	170
Cottonwood Wash near Blanding (d)	171
San Juan River near Bluff (d,c,b,t,s)	172
Lake Powell at Glen Canyon Dam, AZ (e)	180

KANAB CREEK BASIN

Kanab Creek near Kanab (d)	181
--------------------------------------	-----

VIRGIN RIVER BASIN

Virgin River:

East Fork Virgin River near Glendale (d)	182
North Fork Virgin River near Springdale (d)	183
North Creek near Virgin (d)	184
Virgin River at Virgin (d)	185
LaVerkin Creek near Laverkin (d)	186
Ash Creek above Toquerville (d)	187

Quail Creek:

Leeds Creek near Leeds (d)	188
Virgin River near Hurricane (d)	189
Fort Pierce Wash near St. George (d)	190
Santa Clara River near Pine Valley (d)	191
Santa Clara-Pinto diversion near Pinto (d)	192
Santa Clara River at Gunlock (d)	193
Santa Clara River below Winsor Dam, near Santa Clara (d)	194
Santa Clara River at St. George (d)	195
Virgin River near Bloomington (d)	196
Virgin River at Littlefield, AZ	197

THE GREAT BASIN

GREAT SALT LAKE BASIN

Great Salt Lake at State Park Saltair Beach Boat Harbor (e)	198
Great Salt Lake near Saline (e)	200
Discharge measurements at Southern Pacific Transportation Co. causeway	340

BEAR RIVER BASIN

Bear River:

East Fork Bear River near Evanston, WY (d)	202
West Fork Bear River at Whitney Dam, near Oakley (d)	203
West Fork Bear River below Deer Creek, near Evanston, WY (d)	204
Bear River near Utah-Wyoming State line (d)	205
Sulphur Creek above reservoir, near Evanston, WY (d)	206
Sulphur Creek below reservoir, near Evanston, WY (d)	207
Bear River at Evanston, WY (d)	208
Chapman Canal at State line, near Evanston, WY (d)	209
Bear River above reservoir, near Woodruff (d)	210
Woodruff Narrows Reservoir near Woodruff (e)	211
Bear River below reservoir, near Woodruff (d)	212
Woodruff Creek below reservoir, near Woodruff (d)	213
Bear River near Randolph (d)	214
Bear River below Pixley Dam, near Cokeville, WY (d)	215
Smiths Fork near Border, WY (d)	216
Bear River below Smiths Fork, near Cokeville, WY (d)	217
Bear River at Border, WY (d,c,b,s)	218
Thomas Fork near Wyoming-Idaho State line (d)	221
Bear River at Harer, ID (d)	222
Rainbow Inlet canal near Dingle, ID (d)	223
Bear River below Stewart Dam, near Montpelier, ID (d)	224
Bear Lake at Lifton, near St. Charles, ID (e)	225
Bear Lake outlet canal:	
Bloomington Creek at Bloomington, ID (d)	226
Bear Lake outlet canal near Paris, ID (d)	227
Bear River at Pescadero, ID (d)	228
Eightmile Creek near Soda Springs, ID (d)	229
Bear River at Soda Springs, ID (d)	230
Soda Creek at Fivemile Meadows, near Soda Springs, ID (d)	231
Bear River at Alexander, ID (d)	232
Cottonwood Creek near Cleveland, ID (d)	233
Bear River below Utah Power & Light Co.'s tailrace, at Onelda, ID (d)	234
Bear River near Preston, ID (d)	235
Bear River at Idaho-Utah State line (d)	236
Cub River near Preston, ID (d)	237
High Creek near Richmond (d)	238

THE GREAT BASIN--Continued

GREAT SALT LAKE BASIN--Continued

BEAR RIVER BASIN--Continued

Little Bear River below Davenport Creek, near Avon (d)	239
East Fork Little Bear River above reservoir, near Avon (d)	240
Little Bear River near Paradise (d)	241
Logan River:	
Logan, Hyde Park, & Smithfield Canal at head, near Logan (d)	242
Logan River above State dam, near Logan (d)	243
Blacksmith Fork above Utah Power & Light Co.'s dam, near Hyrum (d)	245
Hammond (East Side) Canal near Collinston (d)	246
West Side Canal near Collinston (d)	247
Bear River near Collinston (d)	248
Bear River near Corinne (d,c,b,s)	249
Sulphur Creek near Corinne (d)	252
Salt Spring near Tremonton (d)	253
Salt Creek below Salt Spring, near Tremonton (d)	254
Black Slough near Brigham City (d)	255
Bear River Basin outflow across State Highway 83, near Corinne (d)	256

WEBER RIVER BASIN

Weber River:

Smith and Morehouse Creek near Oakley (d)	257
Weber River near Oakley (d)	258
Rockport Reservoir near Wanship (e)	259
Weber River near Coalville (d)	260
Chalk Creek at Coalville (d)	261
Echo Reservoir at Echo (e)	262
Lost Creek:	
Lost Creek Reservoir near Croydon (e)	263
East Canyon Creek:	
East Canyon Reservoir near Morgan (e)	264
East Canyon Creek near Morgan (d)	265
Weber River at Gateway (d)	266
Ogden River:	
South Fork Ogden River near Huntsville (d)	267
Wheeler Creek near Huntsville (d)	268
Weber River near Plain City (d,c,b,s)	269

JORDAN RIVER BASIN

Utah Lake (head of Jordan River):

Currant Creek near Mona (d)	272
Soldier Creek (head of Spanish Fork):	
Tie Fork near Soldier Summit (d)	273
Spanish Fork below Hall's Falls near Spanish Fork (d)	274
Spanish Fork at Castilla (d)	275
Spanish Fork near Lakeshore (d)	276
Provo River:	
North Fork Provo River near Kamas (d)	277
Provo River near Woodland (d)	278
Provo River near Hallstone (d)	279
Provo River below Deer Creek Dam (d)	280
Provo River at Provo (d)	281
American Fork above upper powerplant, near American Fork (d)	282
Jordan River at narrows, near Lehi (d)	283
Jordan River at 9000 South, near Midvale (d)	284
Jordan River at 5800 South, near Salt Lake City (d)	285
Surplus Canal at Salt Lake City (d)	286
Jordan River at Salt Lake City (d,c,b,s)	287
Red Butte Creek at Fort Douglas, near Salt Lake City (d,c,b,s)	291
Jordan River at 500 North, at Salt Lake City (d)	294

RUSH VALLEY

Vernon Creek near Vernon (d)	295
Clover Creek above Big Hollow, near Clover (d)	296

TOOELE VALLEY

South Willow Creek near Grantsville (d)	297
North Willow Creek near Grantsville (d)	298

GREAT SALT LAKE DESERT

Trout Creek near Callao (d)	299
-----------------------------	-----

TRIBUTARIES BETWEEN GREAT SALT LAKE DESERT AND BEAR RIVER

Dunn Creek near Park Valley (d)	300
---------------------------------	-----

SEVIER LAKE BASIN

Mammoth Creek (head of Sevier River) above West Hatch ditch, near Hatch (d)	301
Sevier River at Hatch (d,s)	302
Sevier River near Circleville (d)	305
Sevier River near Kingston (d)	306
East Fork Sevier River near Rubys Inn (d)	307
Otter Creek Reservoir near Antimony (e)	308
East Fork Sevier River near Kingston (d)	309
Piute Reservoir near Marysville (e)	310
Sevier River below Piute Dam, near Marysville (d)	311
Sevier River above Clear Creek, near Sevier (d)	312
Clear Creek above diversions, near Sevier (d)	313
Sevier River near Sigurd (d)	314
Salina Creek near Emery (d)	315
Salina Creek at Salina (d)	316
San Pitch River:	
Oak Creek near Fairview (d)	317
Oak Creek near Spring City (d)	318
Manti Creek below Dugway Creek, near Manti (d)	319
Sevier River below San Pitch River, near Gunnison (d)	320

THE GREAT BASIN--Continued

SEVIER LAKE BASIN--Continued	
Sevier Bridge Reservoir near Juab (e)	321
Sevier River near Juab (d)	322
Chicken Creek near Levan (d)	323
Sevier River near Lynndyl (d,c,b,s)	324
Oak Creek above Little Creek, near Oak City (d)	327
Oak Creek below Big Spring, near Oak City (d)	328
BEAVER RIVER BASIN	
Beaver River near Beaver (d)	329
Beaver River at Adamsville (d,c,b,s)	330
Minersville Reservoir near Minersville (e)	333
Beaver River at Rocky Ford Dam, near Minersville (d)	334
PAROWAN VALLEY	
Center Creek above Parowan Creek, near Parowan (d)	335
Summit Creek near Summit (d)	336
CEDAR CITY VALLEY	
Coal Creek near Cedar City (d)	337
SNAKE RIVER BASIN	
Snake River:	
RAFT RIVER BASIN:	
Johnson Creek:	
George Creek near Yost (d)	338

GROUND-WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED

GROUND-WATER LEVELS

BEAVER COUNTY	
Well 382551112555101 Local number (C-27-10)25cbd- 1	371
Well 382020112585901 Local number (C-28-10)28cdd- 1	371
BOX ELDER COUNTY	
Well 414236112101201 Local number (B-11- 3)10abb- 4	371
Well 414411112543701 Local number (B-12- 9)30cda- 1	372
Well 415703112514501 Local number (B-14- 9) 9add- 1	372
DAVIS COUNTY	
Well 405447111524301 Local number (A- 2- 1)18abd-12	372
IRON COUNTY	
Well 375241112471001 Local number (C-34- 8) 5bca- 1	373
Well 374524113421501 Local number (C-35-17)13bdc- 1	373
Well 374132113063601 Local number (C-36-11) 8aab- 1	373
Well 374053113415101 Local number (C-36-16) 6cbc- 1	374
Well 374306113422501 Local number (C-36-17) 1acc- 1	374
Well 373643113415301 Local number (C-36-17)36add- 1	374
JUAB COUNTY	
Well 393143111523301 Local number (C-15- 1)12aba- 1	375
MILLARD COUNTY	
Well 393046112231301 Local number (C-15- 5)15dad- 1	375
Well 393020112362201 Local number (C-15- 7)23bac- 1	375
Well 390758113565501 Local number (C-19-19)26aba- 1	376
Well 385844112245801 Local number (C-21- 5)21aba- 1	376
SALT LAKE COUNTY	
Well 403916111575901 Local number (C- 2- 1) 9ccc- 1	376
Well 404356111503901 Local number (D- 1- 1)16caa- 1	377
Well 403452111484301 Local number (D- 3- 1) 2ccc- 1	377
Well 403330111531601 Local number (D- 3- 1)18cba- 1	377
SAN JUAN COUNTY	
Well 375802109191301 Local number (D-33-24)30dab- 1	378
Well 373830109283201 Local number (D-36-22)22daa- 1	378
TOOELE COUNTY	
Well 403539112282901 Local number (C- 2- 6)36dcc- 1	378
Well 401312112442301 Local number (C- 7- 8)10cbd- 1	379
UINTAH COUNTY	
Well 403158109372201 Local number (D- 3-20)25abc- 2	379
UTAH COUNTY	
Well 401818112014501 Local number (C- 6- 2)14aba- 1	379
Well 402333111513401 Local number (D- 5- 1) 8dcc- 1	380
WASHINGTON COUNTY	
Well 371415113471501 Local number (C-41-17) 7ada- 1	380
WEBER COUNTY	
Well 411544111461001 Local number (A- 6- 2)18bad- 1	380
Well 411348112013601 Local number (B- 6- 2)26ada- 1	381

QUALITY OF GROUND WATER

Beaver County wells	388
Box Elder County wells	388
Cache County wells	388
Davis County wells	390
Garfield County wells	390
Grand County wells	390
Iron County wells	390
Juab County wells	390
Millard County wells	390
Piute County wells	392
Salt Lake County wells	392
San Juan County wells	392
SanPete County wells	392
Sevier County wells	392

X

HYDROLOGIC STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED
QUALITY OF GROUND WATER--Continued

Page

Tooele County wells	392
Utah County wells	394
Washington County wells	394
Wayne County wells	394
Weber County wells	394

WATER RESOURCES DATA FOR UTAH, 1985

INTRODUCTION

Water resources data for the 1985 water year for Utah consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 198 gaging stations; stage and contents for 17 lakes and reservoirs; water quality for 24 hydrologic stations, and 186 wells; miscellaneous temperature measurements and field determinations for 157 stations; and water levels for 31 observation wells. Additional water data were collected at various sites not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Utah.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels and Artesian Pressures in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, Virginia 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report UT-84-1." For archiving and general distribution, the reports for water years 1971-74 are also identified as water-data reports. These water-data reports are for sale, in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the district chief at the address given on the back of the title page or by telephone (801) 524-5663.

COOPERATION

The U.S. Geological Survey and organizations of the State of Utah have had cooperative agreements for the systematic collection of streamflow records since 1909, for ground-water levels since 1935, and for water-quality records since 1941. Organizations that assisted in collecting data through cooperative agreement with the Geological Survey are:

Department of Natural Resources, D. C. Hansen, Executive Director
Division of Water Rights, Robert Morgan, State Engineer
Division of Water Resources, D. Larry Anderson, Director
Utah Geological and Mineral Survey, Genevieve Atwood, Director
Division of Wildlife Resources, W. H. Geer, Acting Director
Bear River Commission, W. N. Jibson, Chairman
Salt Lake County Commission, D. Michael Stewart, Chairman

Assistance in the form of funds was given by the Bureau of Reclamation, U.S. Department of the Interior, in collecting records for 16 gaging stations and by the Bureau of Land Management, U.S. Department of the Interior, for 6 gaging stations. Records for eight gaging stations in Idaho in the Bear River basin and three in Utah were collected by the Utah Power and Light Co. under Federal Energy Regulatory Commission License.

Other district offices of the Geological Survey, Water Resources Division, obtained the records listed below:

Colorado District.--Colorado River near Colorado-Utah State line

Nevada District.--Virgin River at Littlefield, AZ

Wyoming District.--Blacks Fork near Robertson, WY
Blacks Fork near Millburne, WY
Burnt Fork near Burntfork, WY
East Fork of Smith Fork near Robertson, WY
Green River near Green River, WY
Henrys Fork near Manila, UT

New Mexico District.--San Juan River at Shiprock, NM

Records for all stream-gaging stations operated by the Geological Survey in the Bear River basin in Utah, Idaho, and Wyoming are included in this report.

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

By Russell W. Cruff

The 1985 water year generally had greater than normal precipitation, but not nearly as great as the previous 3 years. October and July were the wettest months, with precipitation at all the selected sites (fig. 1) being greater than normal. August was the driest month with precipitation at all selected sites being less than normal; several of those sites received only a trace (noted by the T in the following table). October, July, August, and total water year 1985 precipitation with departures from normal, at the selected sites (fig. 1) are listed below, as reported by the National Oceanic and Atmospheric Administration.

Site	Precipitation (inches)							
	October		July		August		Water year	
	Total	Departure	Total	Departure	Total	Departure	Total	Departure
Blanding	2.14	0.68	2.87	1.83	0.03	-1.38	17.08	5.38
Callao	.52	.07	.94	.53	.07	-.46	4.81	-.33
Cedar City	1.50	.72	1.59	.49	T	-1.17	10.74	.48
Green River	2.04	1.26	2.02	1.64	.06	-.73	9.02	3.28
Hanksville	.97	.34	1.86	1.42	T	-.83	6.95	1.71
Logan	2.51	1.08	1.04	.59	T	-.96	17.87	.51
Milford	1.33	.60	1.78	1.17	.09	-.62	11.37	2.78
Nephi	2.16	1.09	3.72	3.09	T	-.95	16.83	3.33
Roosevelt	1.06	.23	1.10	.70	T	-.73	6.53	-.68
Salt Lake city	3.70	2.56	.85	.13	.03	-.89	17.26	1.95
Zion Nat. Park	1.27	.37	1.01	.03	.13	-1.46	14.36	-.22

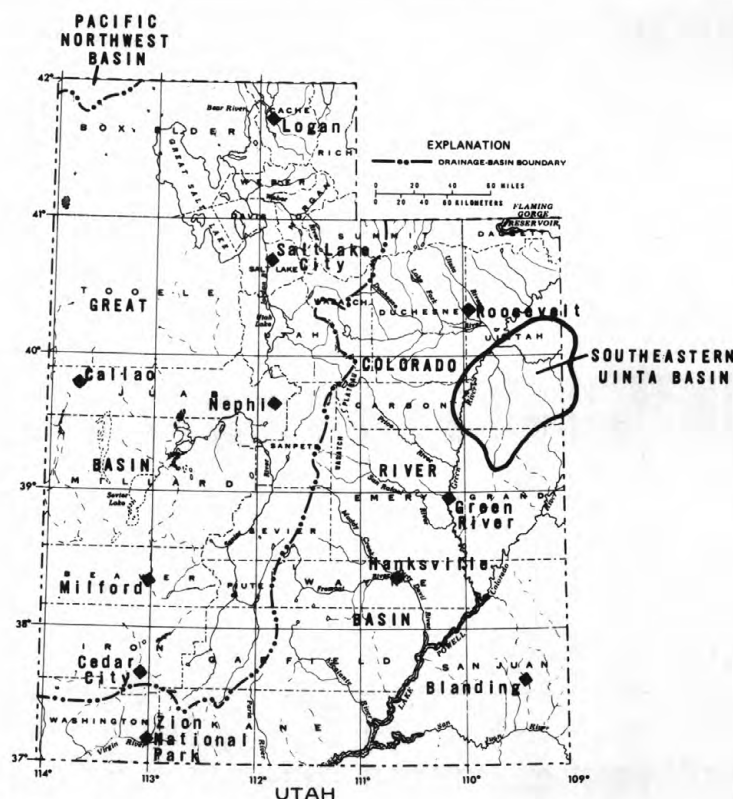


Figure 1.—Selected precipitation recording sites.

At the selected sites, the water-year total precipitation ranged from 0.68 inch less than normal to 5.38 inches greater than normal, whereas the October totals ranged from 0.07 to 2.56 inches greater than normal, the July totals ranged from 0.03 to 3.09 inches greater than normal, the August totals ranged from 0.46 to 1.46 inches less than normal.

SURFACE WATER

by Russell W. Cruff

Stream discharge as measured at seven representative gaging stations averaged 159 percent of the median discharge for the 1951-80 water years (compared to 185 percent a year ago); it ranged from 104 percent of the median for Whiterocks River near Whiterocks to 239 percent for San Juan River near Bluff. Discharge for the 1985 water year compared with the median for the 1951-80 water years at seven representative gaging stations is shown in figure 2. The 1985 water year had greater than average stream discharge, but did not produce nearly as much stream discharge as the 1983 or 1984 water years.

As of October 1, 1985, reservoir storage in 17 major irrigation reservoirs was 126 percent of the average, compared to 150 percent of the average for the previous year. The elevation of Bear Lake was 5919.45 feet above sea level; the lake's contents of 1,126,600 acre-feet, compared to 1,280,400 acre-feet a year ago.

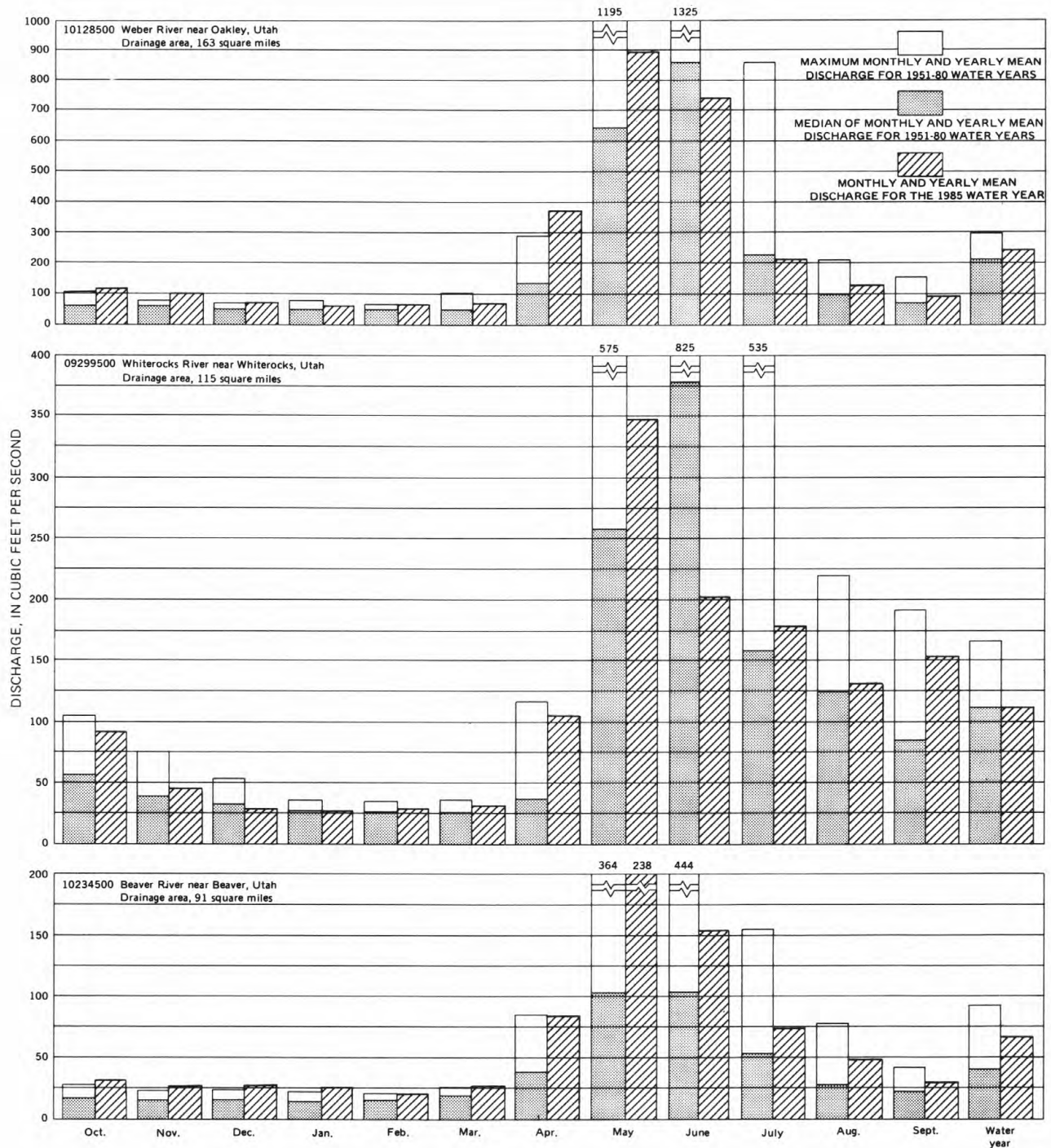


Figure 2.—Comparisons of discharge during the 1985 water year with median and maximum discharge for the 1951-80 water years at seven long-term representative gaging stations.

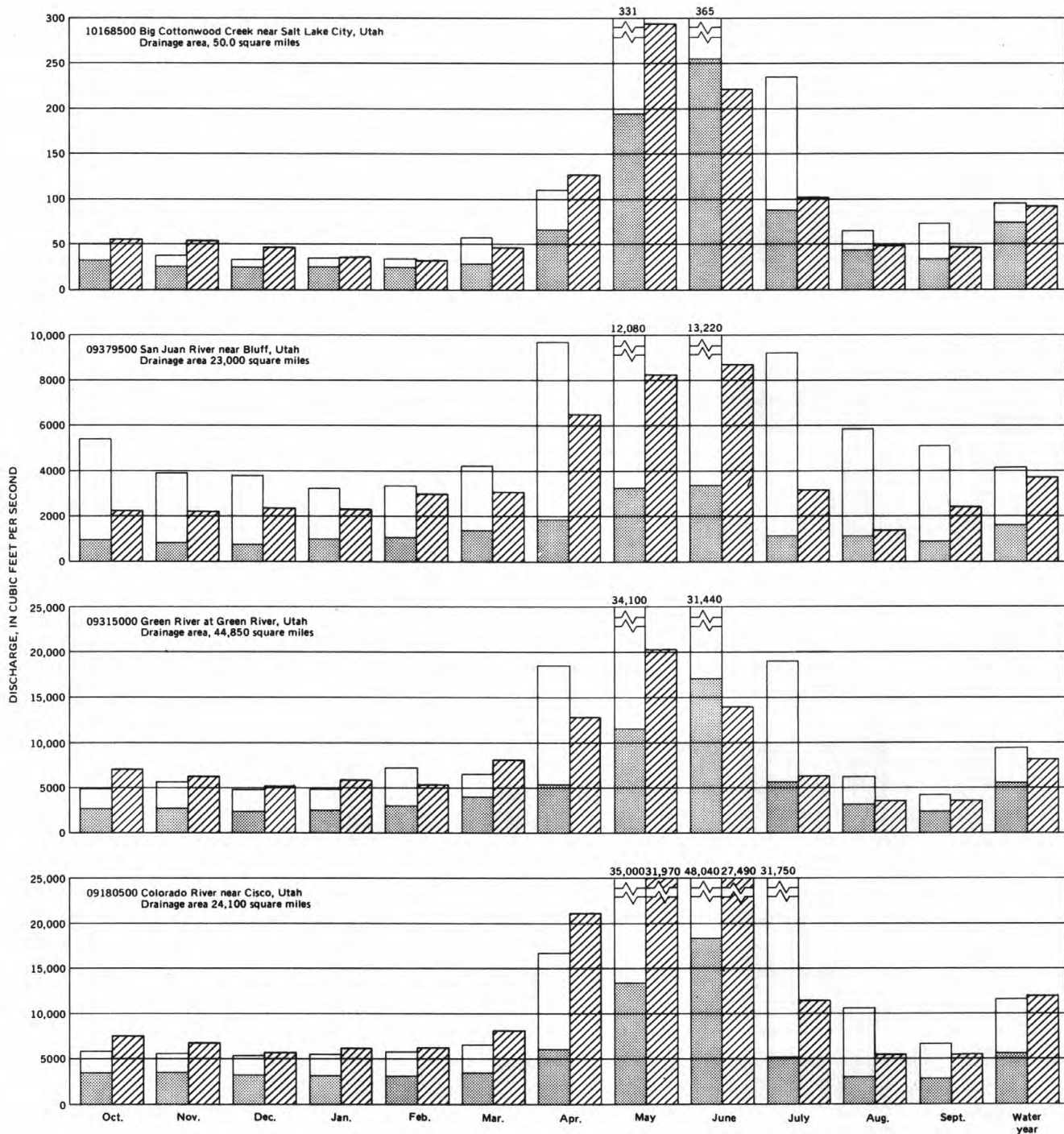


Figure 2.—Comparisons of discharge during the 1985 water year with median and maximum discharge for the 1951-80 water years at seven long-term representative gaging stations—Continued.

Great Salt Lake rose 2.10 feet to reach a seasonal peak stage of 4,209.95 feet above sea level on May 21, 1985. The peak stage was 0.70 foot higher than the previous year's peak stage and was the highest since 1877. Elevation of the lake on September 30, 1985, was 4,208.45 feet. This was 0.60 foot higher than the level the previous year and 17.10 feet higher than the documented record low stage (4,191.35 feet) during October-November 1963.

The historical record for elevation of Great Salt Lake begins in 1847, when the pioneers reached the Salt Lake Valley. The elevation of the lake at that time was about 4,200 feet. The historical record high occurred during 1873 when the lake level was 4211.6 feet above sea level.

Summary of Surface-Water Studies

Reports of five surface-water studies in Utah were completed and published during the last several years. Selected information in those reports is summarized in the following paragraphs.

A recently completed study in Utah (Thomas and Lindskov, 1983) developed methods for estimating peak discharge and flood boundaries of streams in Utah. The study, in cooperation with the U.S. Bureau of Land Management, developed equations for estimating 2-, 5-, 10-, 25-, 50-, and 100-year peak discharges and flood depths at ungaged sites. Ratios of 500- to 100-year values also were developed. The peak-discharge equations are applicable to unregulated flow in natural stream channels. The flood-depth information can be used to approximate flood-prone areas. Drainage area and mean basin elevation are the two basin characteristics needed to use these equations. The standard error of estimate ranges from 38 to 74 percent for the 100-year peak discharge and from 23 to 33 percent for the 100-year flood depth.

The report describes five different flood-mapping methods. It classifies streams into four categories as a basis for selecting a flood-mapping method. Procedures for transferring flood depths obtained from the regression equations to a flood-boundary map are outlined. Methods also are described for transferring flood-frequency data from gaged to ungaged sites on the same stream.

Another recently completed report (Johnson, 1985) presents the water use by public suppliers and self-supplied industries, for 1982 and 1983 in Utah. The report presents tables and graphs for both public supply and self-supplied industry. It presents total use, including the quantities supplied from surface-water and ground-water sources. The ground-water source include springs and wells. For public supply, the report also presents totals for each community within each county and daily per capita withdrawal rates for each of the communities.

A study (Herbert, Cruff, and Waddell, 1985) of the seepage gains or losses of six canals in Salt Lake County, Utah, was completed in 1985. For selected reaches of the six canals (Utah and Salt Lake, Utah Lake Distributing, Provo Reservoir, Draper Irrigation, East Jordan, and Jordan and Salt Lake City) the study determined gains or losses of flow. Three to five sets of seepage measurements were made on each canal. The study determined an overall net loss of 9.5 cubic feet per second in the Utah and Salt Lake Canal, 11.0 cubic feet per second in the Utah Lake Distributing Canal, 20.5 cubic feet per second in the Provo Reservoir Canal, 1.5 cubic feet per second in the Draper Irrigation Canal, and 4.0 cubic feet per second in the East Jordan Canal. The study also determined a net gain of 6.0 cubic feet per second in the Jordan and Salt Lake City Canal. All the measurements and recorded stage data collected during the study are presented in the report.

The final results of the study to evaluate the effects of possible oil-shale development in the southeastern Uinta Basin in Utah and Colorado was reported by Lindskov and Kimball (1984a and 1984b). Areal and time variances in streamflow and water-quality characteristics were determined for the major rivers (Green and White) and for the streams originating within the study area. The streamflow characteristics defined were maximum, minimum, and average flow. Frequency curves, duration curves, and graphs of draft-storage relations are presented for selected gaging stations, with areal variances in average and peak flows also being illustrated. This study determined the mean annual runoff from the southeastern Uinta Basin to be about 28,000 acre-feet and ranges from less than 0.1 to 1.6 inches depending on the location. At any given site, the runoff varies greatly from year to year and season to season. Potential evapotranspiration exceeds precipitation in all years.

Another study determined the streamflow characteristics of unregulated streams in the Colorado River Basin of Utah. The reports present the streamflow characteristics at the sites where streamflow data have been collected (Christensen and Plantz, in press) and present methods for determining 10 streamflow characteristics at ungaged sites (Christensen, Johnson, and Plantz, in press). The streamflow characteristics included are average and annual maximum 1-, 7-, and 15-day mean flows for intervals of 10-, 50-, and 100-years. Regression equations were developed to relate the streamflow characteristics to the following basin characteristics: contributing drainage area, mean basin elevation, mean annual precipitation, main channel slope, and forested area. Separate regression equations were developed for four hydrologically distinct regions in the study area. The standard error of estimate for the 10 streamflow characteristics ranged from 13 to 87 percent.

WATER QUALITY

By Kendall R. Thompson, Doyle W. Stephens and Ralph L. Sailer

The greater than average runoff during the 1983 and 1984 water years has had a prolonged effect on the quality of water in some parts of the State. Flow of the Jordan River remained larger than normal and helped dilute inflow from numerous wastewater-treatment plants and storm runoff from urban areas. In addition, the saline waters of the Great Salt Lake still inundate many of the major waterfowl-management areas that surround the lake.

Summary of Water-Quality Studies

Recent studies of ground water in Utah have determined the effects of human activities on the quality of the water in the ground-water system. In addition, a recent study of Scofield Reservoir determined causes of eutrophication and fish kills in the reservoir. Selected information from these reports is summarized in the following discussions.

Changes in Ground-Water Quality

Activities associated with mining, irrigation, and urban development have caused changes in the chemical quality of water locally in Utah. The changes were documented on the basis of data collected as part of a state-wide ground-water quality monitoring program of the U.S. Geological Survey in cooperation with the Utah Division of Water Rights, and during several areal water-quality studies recently compiled by the Survey.

In 1962-67, water produced by numerous wells in the Salt Lake Valley was sampled and analyzed for chemical composition. In 1979-84, water produced from 35 of these same wells was sampled again. It was determined that the dissolved-solids concentration in the water produced by 13 of the wells sampled in 1979-84 had increased.

Considerable urban development has occurred along the bench areas in the eastern part of the Salt Lake Valley since 1965, and much of the precipitation that formerly recharged ground water in the area is diverted into storm drains that empty into the Jordan River. The source of much of the water that now percolates to the water table is water applied to lawns and gardens. This water may contain fertilizers, pesticides, and other substances that may be causing changes in the chemical quality of the ground water. Some of the changes may also be due to storage and use of salt (primarily sodium chloride) for delcing roads in the recharge areas and canyons of the Wasatch Range. The use of salt for delcing roads began in the 1960's and has increased as equipment for dispensing the salts has become available.

The concentration of dissolved solids in water from well (D-1-1)7abd-6 (see page 20 for explanation of well numbering system), in Salt Lake County, began to increase gradually during the late 1950's and by 1979 the concentration had increased by almost 100 milligrams per liter. The increased concentrations were accompanied by an increase in sodium, calcium, and chloride. The increase in chloride concentration at well (D-1-1)7abd-6 is shown in figure 3. Water produced by three other wells in the same part of the valley as well (D-1-1)7abd-6 had increases in dissolved-solids concentration ranging from 24 to 46 percent between 1962-67 and 1979-84 (Waddell and others, 1986, p. 24).

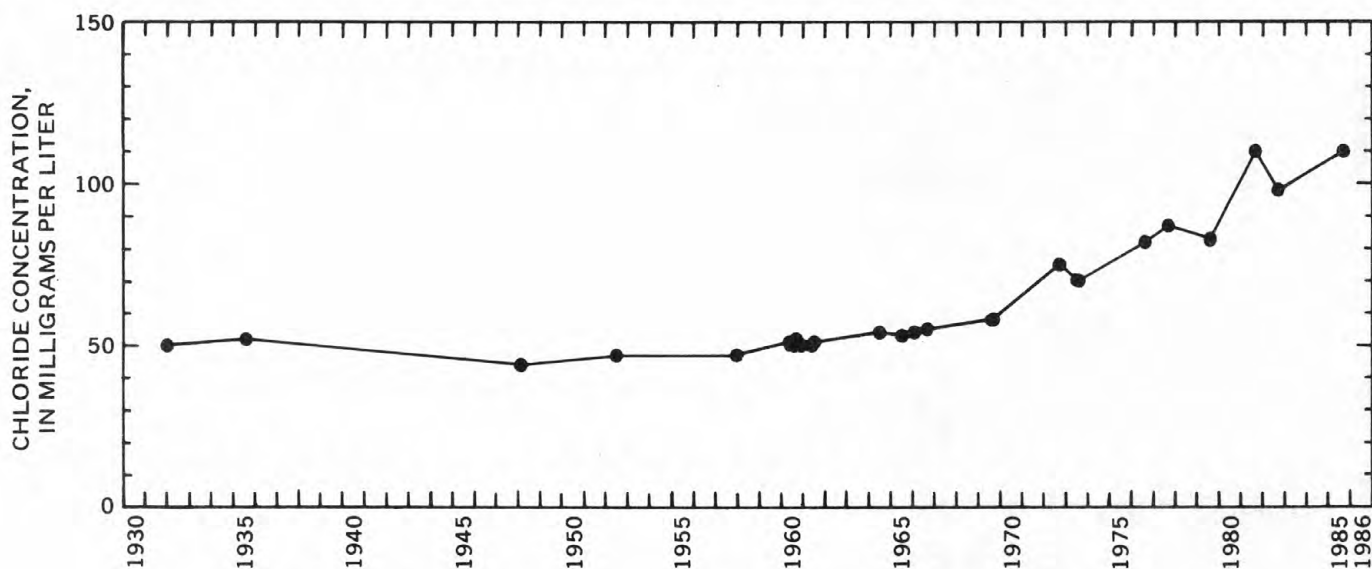


Figure 3.—Changes in chloride concentration at well (D-1-1)7abd-6 in Salt Lake County, Utah.

Acidic water from mining related operations, which is stored in ponds and reservoirs in recharge areas east of the Oquirrh Mountains, has caused the concentration of dissolved solids to increase by 600 to 1,400 milligrams per liter in water produced by some wells downgradient from the ponds and reservoirs (Waddell and others, 1986, p.45). Changes also were reported in the chemical quality of water from three other wells in this area during a similar period. The report states that increased concentrations of dissolved solids were due to increases in the concentrations of calcium, magnesium, sulfate and chloride. Except for chloride, the changes were consistent with the effects expected from infiltration of acid waters containing large concentrations of magnesium and sulfate through an aquifer containing carbonate minerals.

Leachates from radioactive mill tailings produced by uranium and vanadium ore-processing operations during the 1950's and 1960's has resulted in increases of dissolved solids, heavy metals, and radioactivity in ground-water beneath and downgradient from the tailings pile located near the center of the Salt Lake valley (Waddell and others, 1986, p. 11). About 7,800 acre-feet of water in the shallow-unconfined aquifer and 12,000 acre-feet in the deeper, confined part of the principal aquifer were contaminated by leachate from the tailings. Corrective action to remove the tailings began in 1985.

Ground-water withdrawals for irrigation has caused the chemical quality of the ground water in Pahvant Valley, the Sevier Desert, the Beryl-Enterprise area, and several other areas to deteriorate (Don Price and Ted Arnow, U.S. Geological Survey, written commun., 1986.) In the Pahvant Valley, a decline in water levels has resulted in the formation of a depression in the water table. As the depression has expanded, saline ground water from the north and west has migrated into the depression, causing the concentration of dissolved solids at well (C-23-6)21bdd-1 to increase from about 1,500 milligrams per liter in 1957 to greater than 6,000 milligrams per liter in 1984 (fig. 4). Since formation of the depression, the water available for recharge in this area comes mostly from recirculation of ground water that is pumped for irrigation.

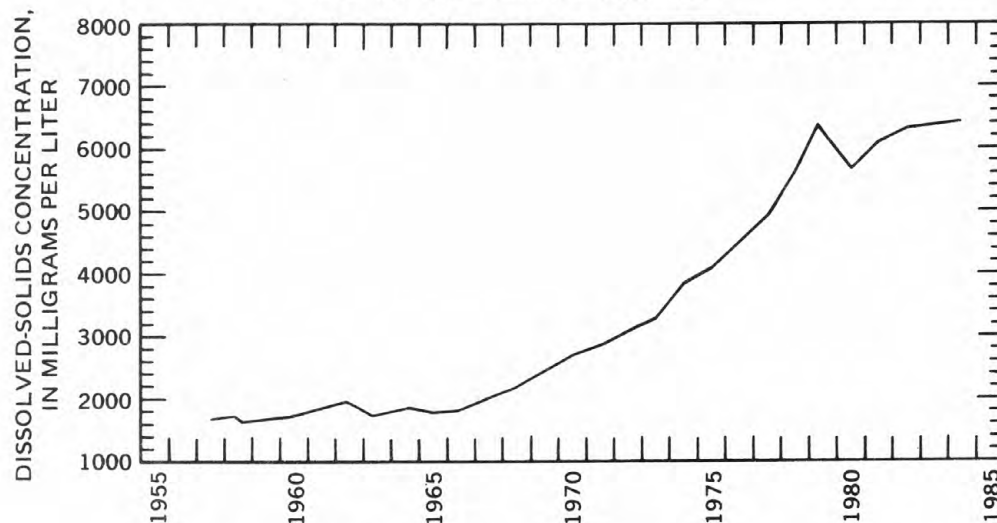


Figure 4.—Changes in dissolved-solids concentration at well (C-23-6)21bdd-1 in Pahvant Valley, Utah.

Trophic State of Scofield Reservoir

Due to recurring algal blooms and large concentrations of nutrients, Scofield Reservoir near Price, Utah, has been classified as eutrophic (Denton, 1980, p. 167) to meso-eutrophic (Waddell and others, 1983, p.44; Denton and others, 1983, p. 30). Data collected by the U.S. Geological Survey since 1979 indicate that 47 percent of all measurements of total phosphorus in the epilimnion and 69 percent of all measurements of total phosphorus in the hypolimnion have exceeded the Utah water-quality standard of 0.025 milligram per liter (Stephens, 1985). The seasonal cycling of total phosphorus based on data collected by the State of Utah and the U.S. Geological Survey is shown in figure 5. Typically there is an increase in total-phosphorus concentrations in the hypolimnion during winter stratification due to release of phosphorus from the reservoir-bottom sediments. During spring turnover in May, concentrations decrease in the hypolimnion and increase in the epilimnion. During summer, growth of algal and bacterial populations coupled with increasing stratification and development of an anaerobic hypolimnion, decreases the total-phosphorus concentrations in the epilimnion and results in a large increase in total-phosphorus concentrations in the hypolimnion. During fall turnover in late August or September, the total-phosphorus accumulated in the hypolimnion is released to the overlying waters and surface concentrations of total-phosphorus typically increase. It is during the fall turnover that recycled phosphorus is made available to the blue-green algae which may cause blooms that can damage the fish population by removing oxygen from the water.

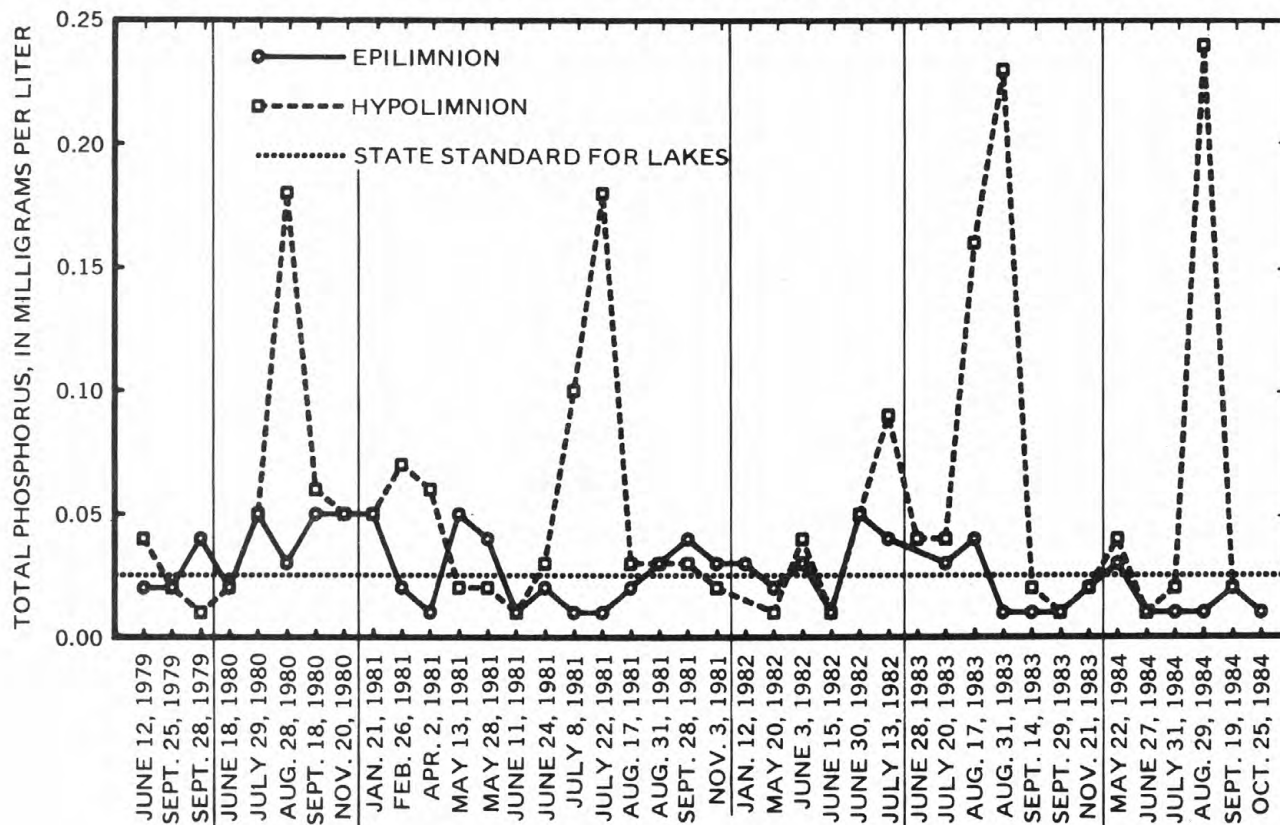


Figure 5.—Variation in concentrations of total phosphorus in water from Scofield Reservoir, 1979-84.

Data on algal populations and blooms in Scofield Reservoir are available for periodic intervals since 1975. Considerable data on the algal community have been collected since 1981 (Utah Department of Health, 1984) which may be summarized by examining the fluctuations of two blue-greens, *Aphanizomenon flos-aquae* and *Anabaena flos-aquae*, and the diatom *Stephanodiscus minutula*, which are good indicators of eutrophication in Utah reservoirs. The density of these blue-greens and the percentage of the diatom (relative to all diatoms) are plotted in figure 6 for 1981-84. Although both groups of organisms are indicators of eutrophication, their populations do not reach bloom proportions at the same time of the year.

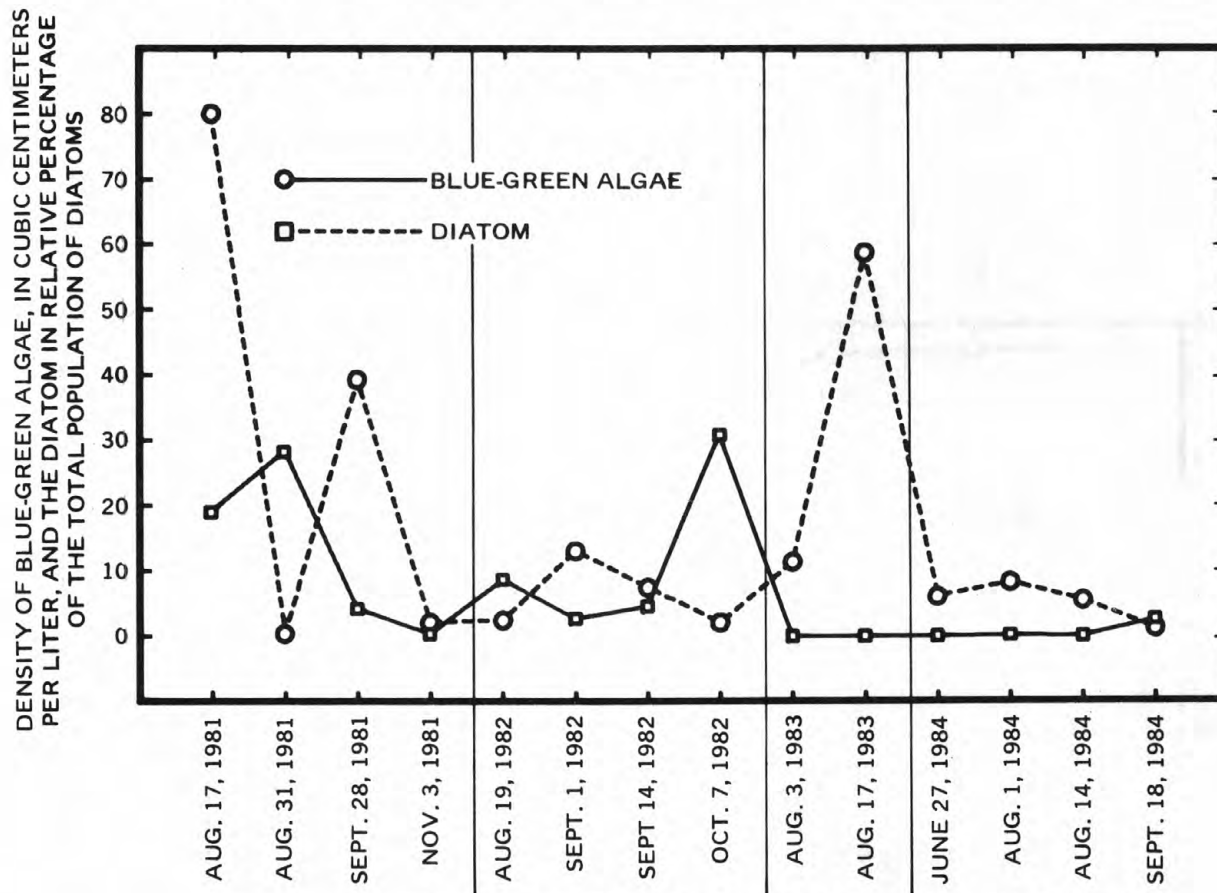


Figure 6.—Population fluctuations of blue-green algae and a species of diatom in Scofield Reservoir, 1981-84.

Fish Kills in Scofield Reservoir

There have been 6 years with reported fish kills in Scofield Reservoir since 1960 (personal communication, Walter Donaldson, Utah Department of Wildlife Resources), all of which were associated with small discharges from the principal inflowing stream and reduced reservoir water storage (table 1). During most years, Fish Creek contributes about 70 percent of the annual inflow to the reservoir. The Utah Division of Wildlife Resources has determined that fishkills occur in years when the annual value for mean daily discharge is less than 40 cubic feet per second. This determination has been verified by all data collected since 1960 with the exception of 1963 and 1966. During 1963, the discharge from Fish Creek decreased to 63 percent of the 25-year average daily discharge of 52.6 cubic feet per second and the minimum water storage in the reservoir was only 52 percent of the 25-year average. During 1966, the average daily discharge of Fish Creek was 67 percent of the 25-year average but minimum water storage in the reservoir had reached 143 percent of the average. Analysis of measured (Waddell and others, 1983, p. 17; Denton and others, 1983, p. 28) and calculated water budgets since 1960 indicate that fish kills occur 80 percent of the time the annual flushing rate for the reservoir (total inflow/Price River outflow) is less than 0.85. There were no reported fish kills during years when the flushing rate was greater than 1.1. It is likely that damage to the fishery results from a combination of the following environmental conditions: (1) Large populations of blue-green algae with associated oxygen demands due to respiration and decomposition, (2) increased rate of warming of lake water, (3) decreased inflow from tributaries, and (4) increased volume of the anaerobic hypolimnion.

There were considerable reservoir data (Utah Department of Health, 1984) collected before and after the 1981 summer fish kill that indicate the relationship between total reservoir water storage and the actual volume of fish-habitable water (fig. 7). Total water storage began decreasing in June and during August decreased 15 percent. The volume of water with a minimum dissolved-oxygen concentration of 5.5 milligrams per liter which is sufficient to support a fishery, decreased at about the same rate until August. During the first one-half of August, the fish-habitable water decreased by 60 percent. This was due to an expansion of the anaerobic hypolimnion which greatly decreased the living area for fish and resulted in an estimated fish kill of 200,000. In addition, increased densities of blue-greens indicate a bloom during August of 1981, which was a major contributing factor in the fish kill.

A blue-green bloom in October 1982 did not result in measurable damage to the fishery because water storage had reached an historic maximum in June and was still relatively large in October. Similarly, the diatom bloom of August 1983 occurred at a time when the water storage was historically very large.

Table A.--Fish kills in Scofield Reservoir and minimum reservoir water storage, ratio of inflow to outflow, and discharge for Fish Creek.

Water year	Fishery response	Minimum useable water storage (acre-feet)	Percent of 25-year average minimum storage	Total inflow-total outflow ratio	Fish Creek mean daily discharge (cubic feet per second)
1960	Major summer kill	1,677	7	.95	31.1
1961	Major winter kill	551	2	1.09	14.8
1972	Minor summer kill	19,472	80	.74	32.1
1976	Minor summer kill	31,064	127	.84	35.7
1977	Major summer kill	17,690	73	.49	10.2
1981	Major summer kill	7,606	31	.73	31.4

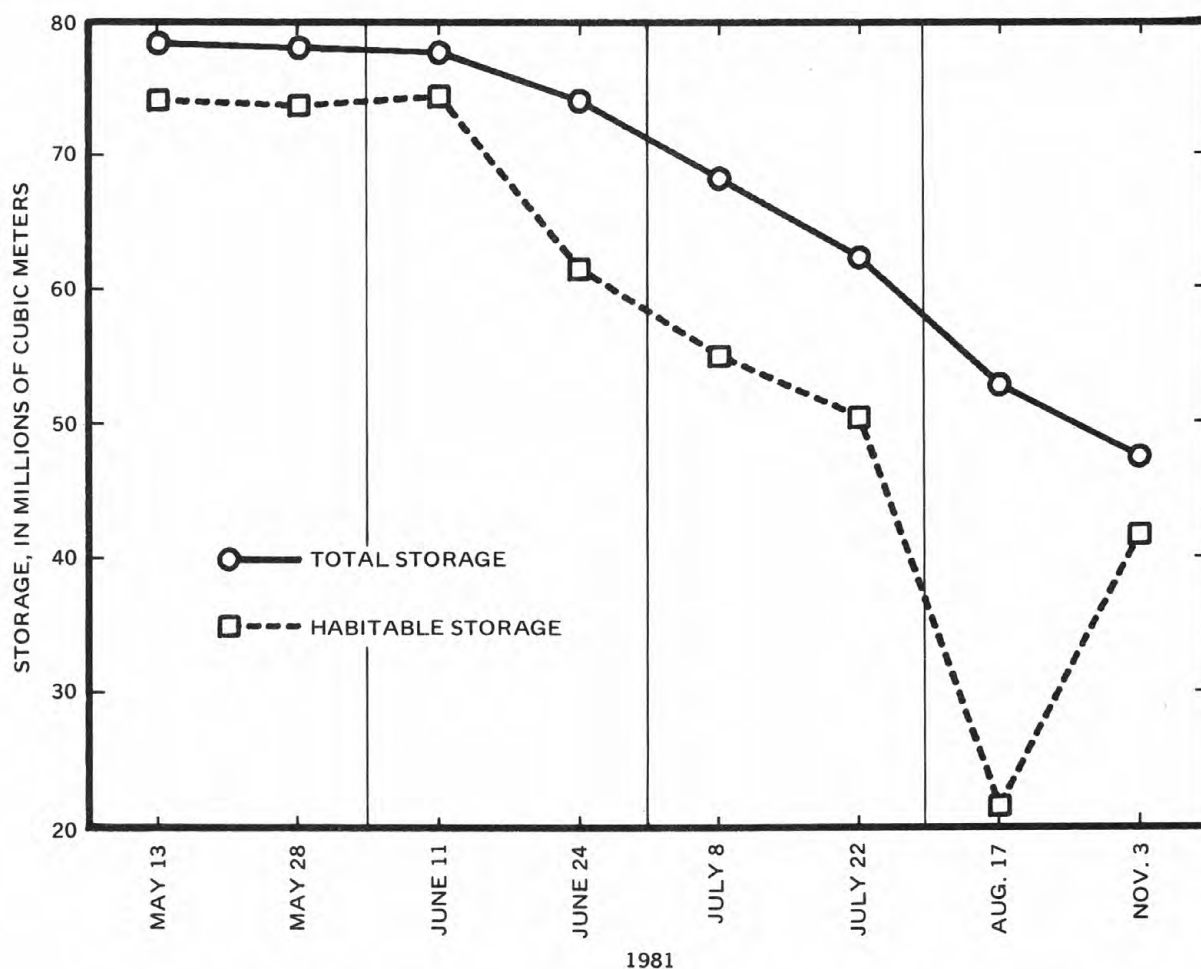


Figure 7.—Total and fish-habitable water stored in Scofield Reservoir during the 1981 fishkill.

GROUND WATER

By Ralph L. Seiler

Summary of Conditions

According to a study completed in the spring of 1985 (Seiler and others, 1985), the estimated total withdrawal of water from wells in Utah during 1984 was about 614,000 acre-feet. This was about 14,000 acre-feet more than was withdrawn during 1983 and about 193,000 acre-feet less than the average annual withdrawal for 1974-83. The increase in withdrawal primarily is due to an increase in withdrawal for public supply and industry. Withdrawal for public supply and industry was 138,000 acre-feet, which was 9,000 acre-feet more than during 1983. Withdrawal for industry was 86,000 acre-feet, which was more than during 1983. Total withdrawal for irrigation during 1984 was about 329,000 acre-feet, which was 5,000 acre-feet less than during 1983. Withdrawal for domestic and stock use was 60,000 acre-feet, which was 1,000 acre-feet more than during 1983. The larger ground-water basins and those where most of the ground-water was withdrawn by wells in Utah during 1984 are shown in figure 8.

The quantity of water withdrawn from wells is related to local climatic conditions. Precipitation during 1984 was above average throughout most of Utah. Of the 33 weather stations for which graphs of cumulative departure from average annual precipitation are included in the report of Seiler and others (1985), only 5 stations recorded below average annual precipitation. Accordingly, 1984 was the third consecutive year in which precipitation was generally above average in Utah.

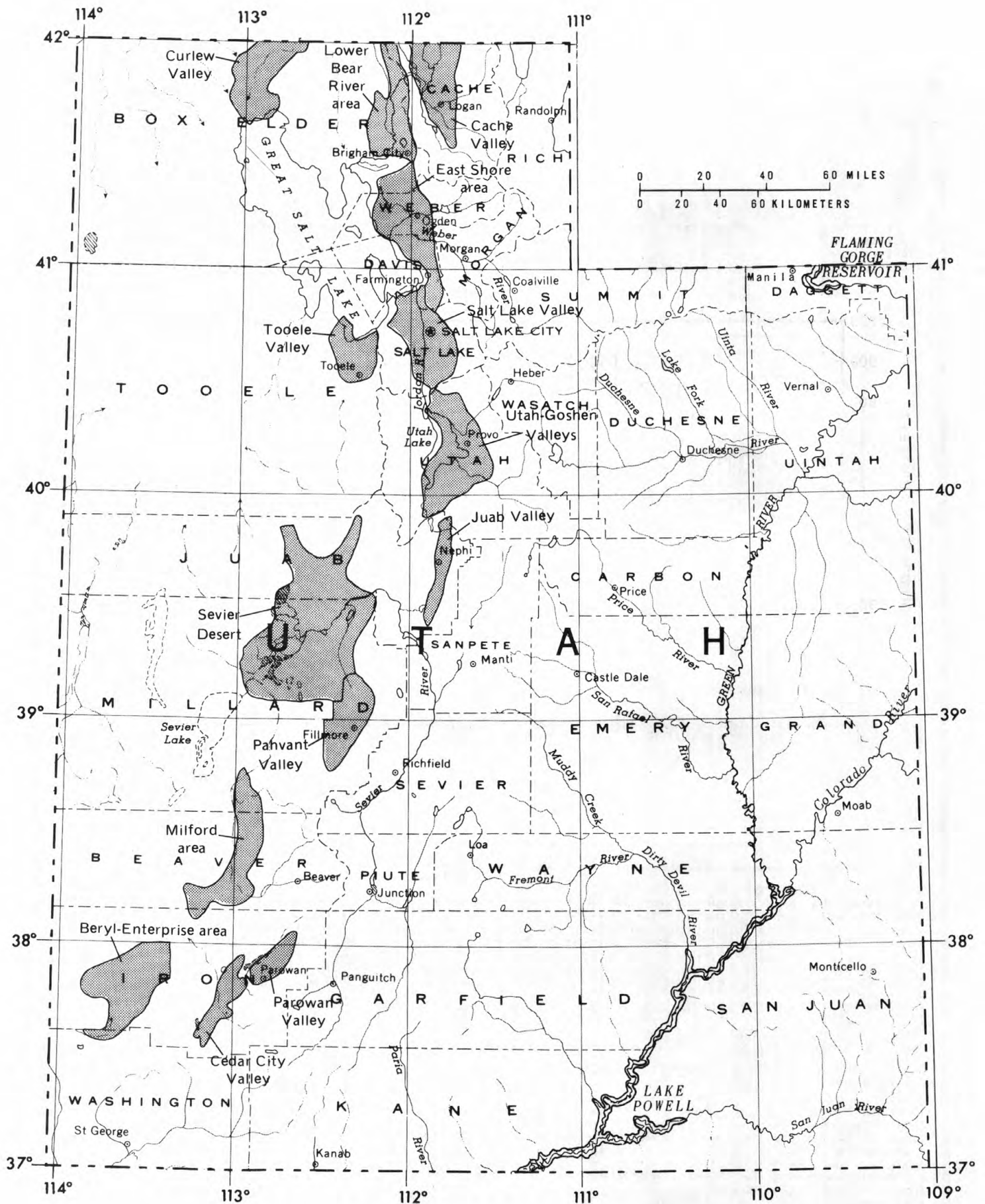


Figure 8.—Areas of ground-water development.

Greater than average precipitation began in late 1982 in most of Utah and it is interesting to compare withdrawals before and after 1982 (fig. 9). Irrigation withdrawals in 1983 and 1984 were about 60 percent of the average annual volume for the previous 10 years. Withdrawals for other uses (public supply, industry, and domestic and stock), continued to increase since the early 1970's and in 1984 were about 110 percent of the 1974-83 average annual volume.

Withdrawals during 1984 were less than the 1974-83 average annual withdrawal in 13 of the 16 areas specifically referred to in Seller and others (1985, table 2). The total volume of ground water withdrawn during 1984 was about 75 percent of the average annual volume in the previous 10 years because the above average precipitation in the last 3 years has resulted in increased surface-water supplies and continued recharge to the ground-water reservoirs. The combination of these effects resulted in rises of ground-water levels from spring of 1984 to spring of 1985 throughout most of the State; those rises were large in some areas.

Water levels in some valleys returned to predevelopment levels and some wells began flowing that never flowed before; however, water levels in other valleys have continued a long-term decline in spite of above average precipitation. Valleys in which there were large water level rises were mostly valleys where irrigation is the primary use of the ground water. The greatest water-level rises occurred in those valleys where irrigation use normally accounts for greater than 90 percent of the total withdrawal, and where increased surface-water supplies decreased the ground-water withdrawal.

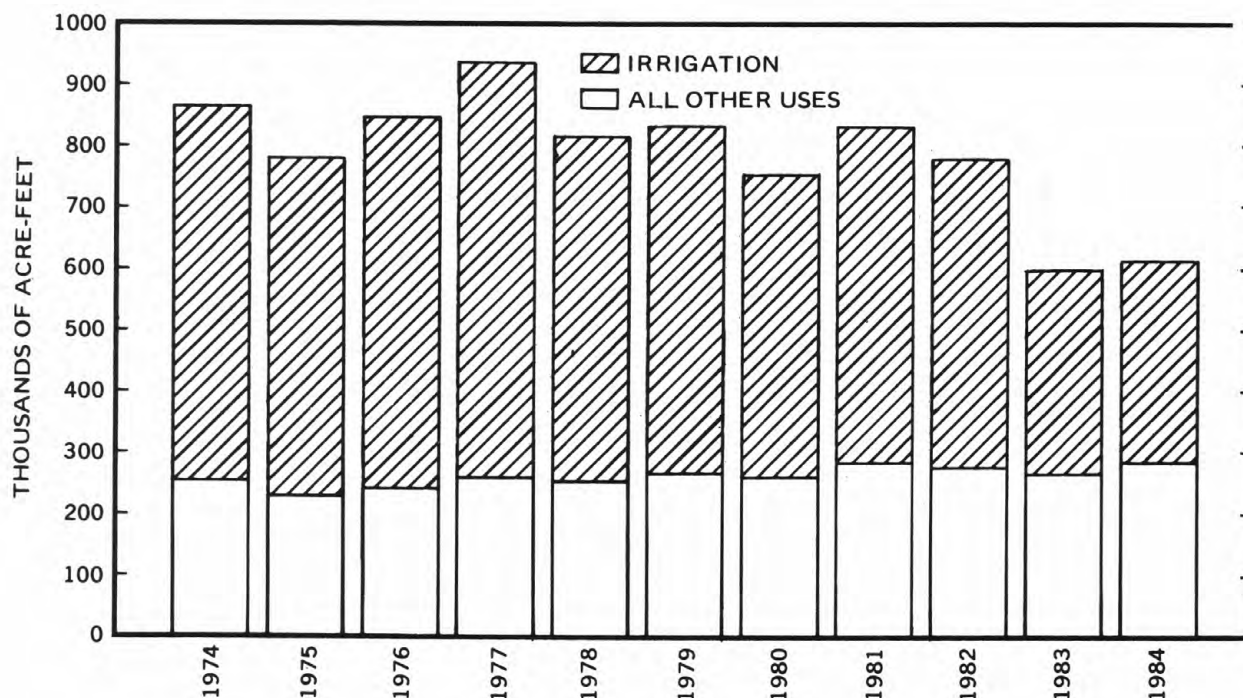


Figure 9.—Ground-water withdrawals in Utah.

Conditions in Selected Areas

Some of the largest water-level rises in the State were in Pahvant Valley where the ground-water withdrawal during 1984 was about 37 percent of the 1974-83 average annual volume. The withdrawal for irrigation in Pahvant Valley usually accounts for about 99 percent of the total annual withdrawal. Precipitation at Fillmore for 1982, 1983, and 1984 has been 142, 170 and 138 percent of the 1931-84 average annual precipitation. Recharge to the ground-water system also has been above average because of the above average precipitation. Also, the total withdrawal has been below average because of the increased supplies of available surface water. Discharge of several small creeks was much greater than average during 1982-85.

Water levels in all wells in Pahvant Valley rose from March 1982 to March 1985 (fig. 10). The greatest rise, more than 60 feet, occurred in a well northwest of Fillmore. Rises from 25 to 61 feet occurred along the mountain front in areas which are major pumping centers. A water-level hydrograph for well (C-20-5)13daa-1 near Holden is presented in figure 11. Water levels have risen 21 feet since March 1982 and are higher than in the early 1950's.

In the Milford area of Escalante Valley the total withdrawal from wells during 1984 was only about 54 percent of the 1974-83 average annual withdrawal. The withdrawal for irrigation during 1984 accounted for about 96 percent of the total withdrawal. The greatest water-level rises were along the Beaver River south of Milford. Discharge of the Beaver River during 1983 and 1984 was 400 and 334 percent of the 1931-84 average annual discharge. Increased surface-water supplies for irrigation decreased the need for ground water for irrigation. This, coupled with increased recharge to the ground-water system has resulted in water level rises to nearly the levels of the 1930's in some wells (fig. 12).

Most ground-water withdrawal in Tooele Valley is for irrigation and during 1984 irrigation accounted for 77 percent of the total withdrawal. Ground-water withdrawals have decreased since 1983, and during 1984, the total withdrawal was only 82 percent of the 1974-83 average annual withdrawal. Water levels in some wells near Erda have risen to the highest levels since the 1930's and the water level in 1 well north of Erda rose nearly 46 feet from March 1983 to March 1984. Withdrawals of ground water near Erda are principally for irrigation.

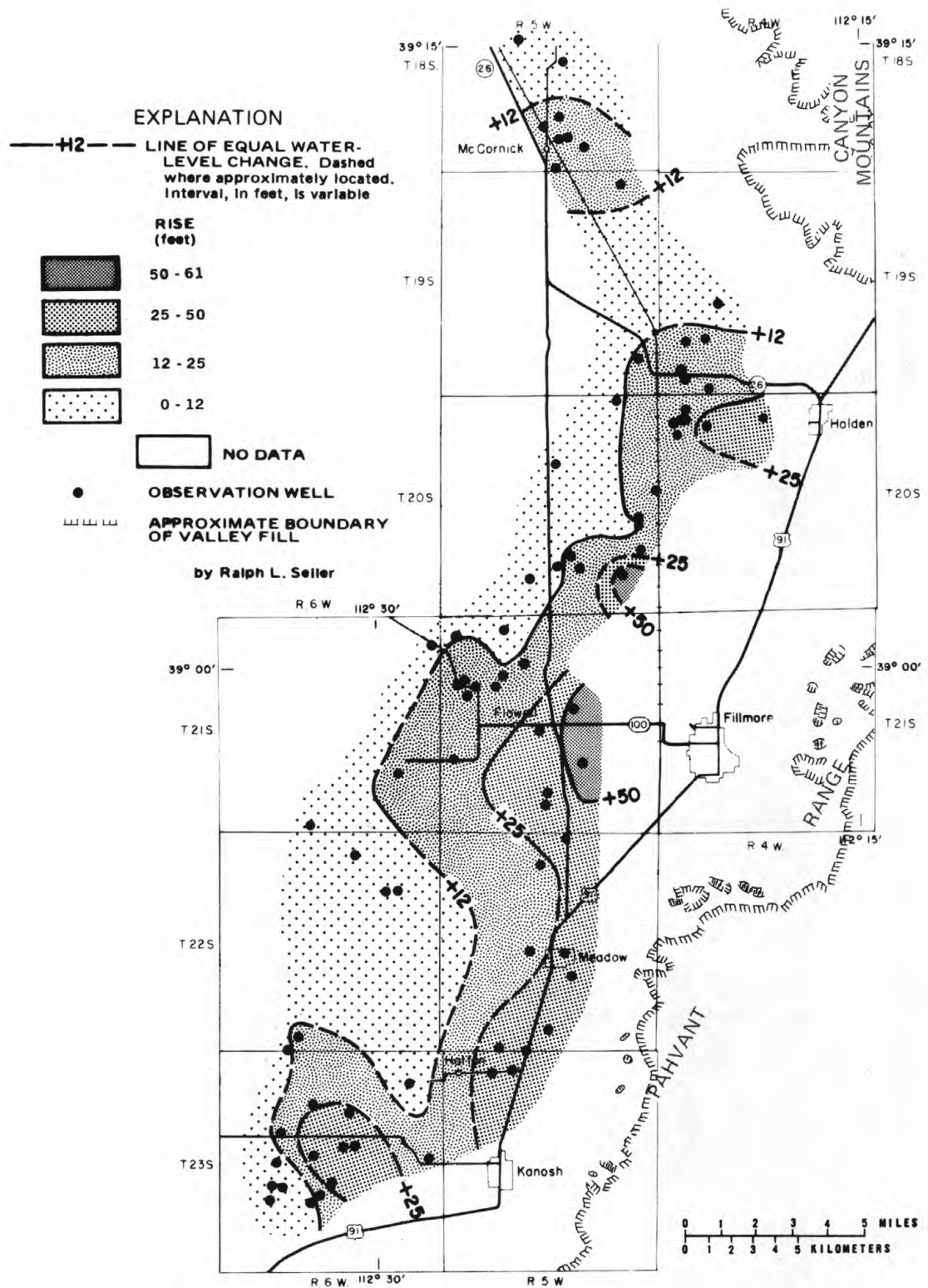


Figure 10.—Rise of water levels in Pahvant Valley from March 1982 to March 1985.

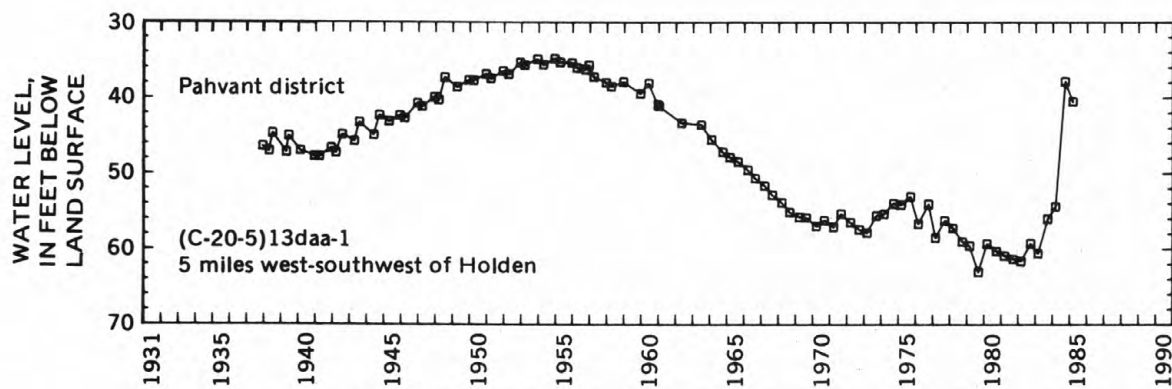


Figure 11.—Hydrograph of a well in Pahvant Valley.

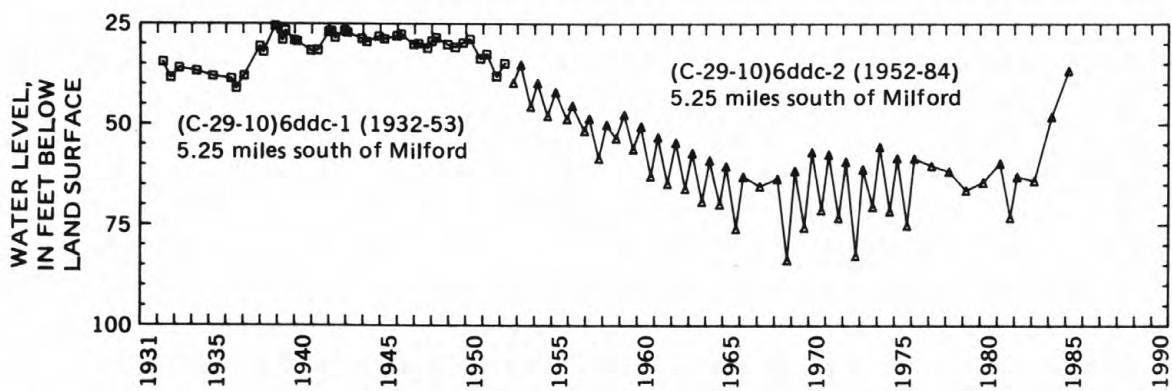


Figure 12.—Hydrographs of wells in the Milford area of Escalante Valley.

In some valleys such as the Escalante Valley where irrigation is the dominant use of ground water, water levels have continued a long-term decline because of the continued large annual withdrawal for irrigation and the general absence of available surface-water supplies. In the Beryl-Enterprise area of Escalante Valley the ground-water withdrawal for irrigation during 1984 was 69 percent of the total withdrawal. The total withdrawal has continued to increase and during 1984 was 113 percent of 1974-83 average annual withdrawal. A hydrograph for well (C-35-17)25dcd-1, 2.5 miles from Beryl Junction, (fig. 13) shows the long term decline in water levels in the area. Between April 1952 and March 1982 water levels declined an average of 1.5 feet per year. The above average precipitation may have reduced the rate of decline slightly. Between March 1982 and March 1985, for example, the rate of water-level decline averaged only about 0.5 foot per year.

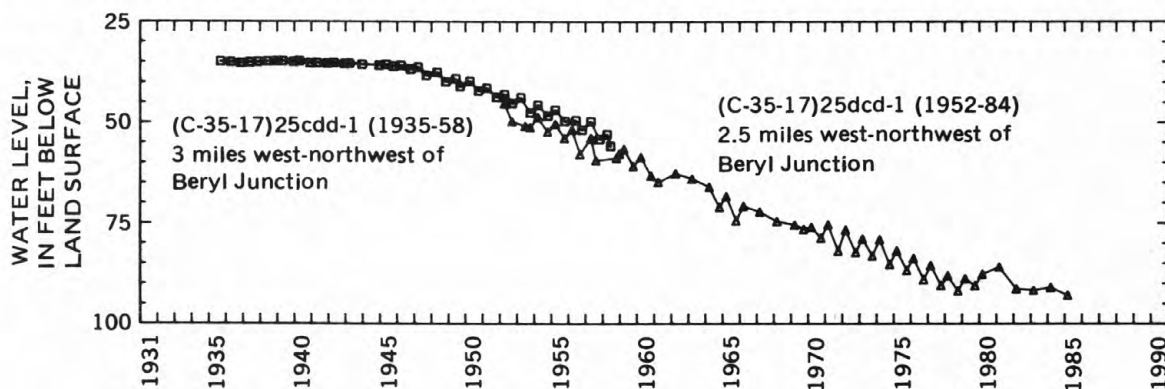


Figure 13.—Hydrographs of wells in the Beryl-Enterprise area of Escalante Valley.

Withdrawal for irrigation in the Salt Lake Valley and the East Shore Area is a minor part of the total ground-water withdrawal because the major use of ground water in those areas is for public supply and industry. During 1984, the irrigation withdrawal in Salt Lake Valley was less than 2 percent of the total withdrawal and in the East Shore area was 24 percent of the total withdrawal. During 1984, withdrawal for public supply and industry in both the Salt Lake Valley and East Shore area was about 75 percent of the total withdrawal.

The total ground-water withdrawal in the Salt Lake Valley during 1984 was less than the 1974-83 average annual withdrawal principally because of increased supplies of surface water for public supply and decreased withdrawal for industrial use. Water levels in well (D-2-1)34acb-1 have shown a long-term decline starting in the early 1950's, reaching a maximum decline of about 60 feet in September 1981 (fig. 14); however, from February 1982 to February 1985 water levels in this well rose about 15 feet. This well is near the edge of a major pumping center in Salt Lake Valley and near the mountain front so it reflects the effects of both decreased withdrawals and increased recharge.

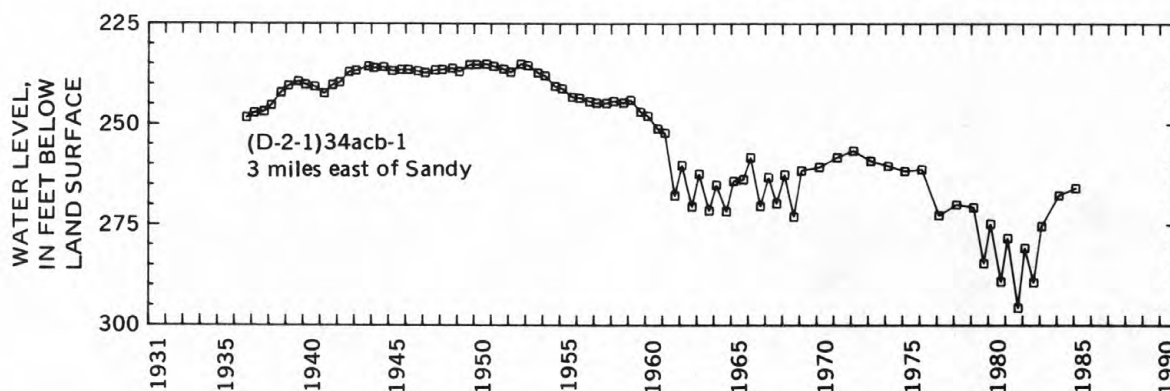
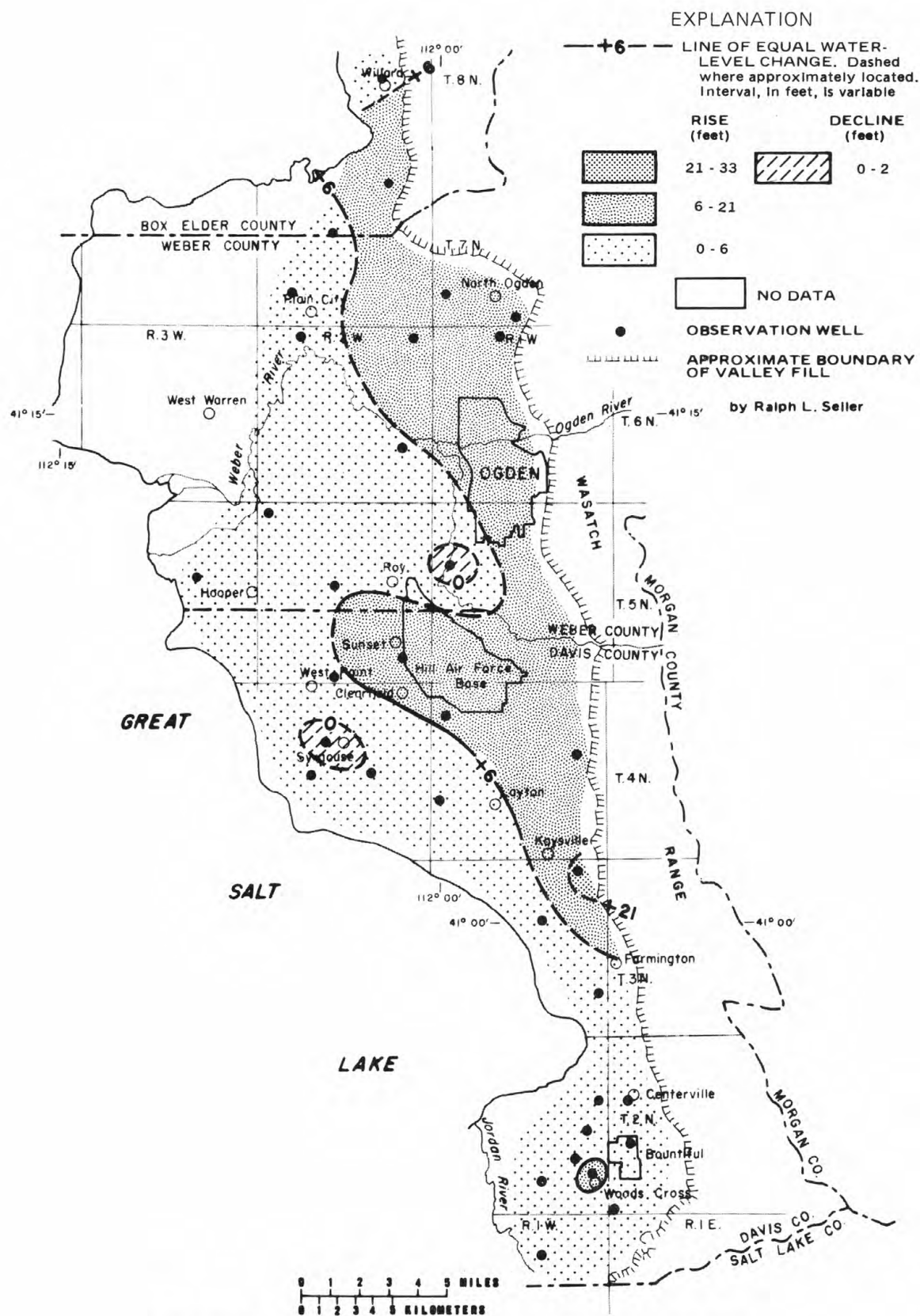


Figure 14.—Hydrograph of a well in Salt Lake Valley.

The total ground-water withdrawal in the East Shore area was larger than the 1974-83 average annual withdrawal. The withdrawal for public supply during 1984 was about 119 percent of the 1974-83 average annual withdrawal. Water levels near the large pumping centers had the largest rises between March 1982 and March 1983 (fig. 15). The largest rise, 32.4 feet, was in a well near the mountain front east of Kaysville. Some small declines, less than 2 feet, were measured near Syracuse and east of Roy.



Some water levels near pumping centers also have had a long-term decline since the mid-1950's. The maximum decline in well (B-5-2)33ddc-1 of about 67 feet was reached in September 1983 (fig. 16). Water levels in this well rose about 8 feet between March 1983 and March 1985.

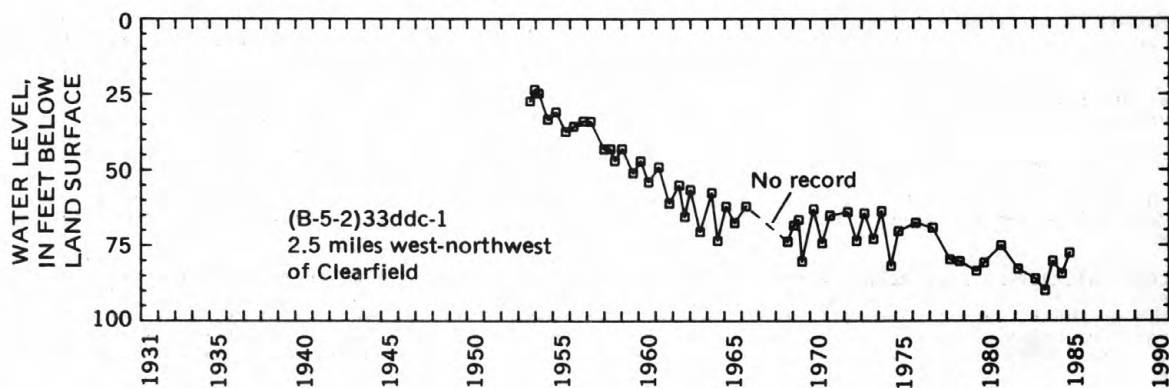


Figure 16.—Hydrograph of a well in the East Shore area.

REFERENCES CITED

- Christensen, R. C., Johnson, E. B., and Plantz, G. G. (in press), Manual for estimating streamflow characteristics of natural-flow streams in the Colorado River basin in Utah: U.S. Geological Survey Water-Resources Investigation Report 85-4297.
- Christensen, R. C., and Plantz, G. G., Streamflow characteristics of the Colorado River basin in Utah through September 1981: U.S. Geological Survey Open-File Report 85-421.
- Denton, R. L., 1980, Water quality of selected Utah impoundments: Salt Lake City, Utah, Department of Health, Bureau of Water Pollution Control, 227 p.
- Denton, R. L., Cox, M. I., Merritt, L. B., 1983, Scofield Reservoir phase 1 clean lakes study: Salt Lake City, Utah Department of Health, Bureau of Water Pollution Control, 208 p.
- Herbert, L. R., Cruff, R. W., and Waddell, K. M., 1985, Seepage study of six canals in Salt Lake County, Utah: Utah Department of Natural Resources Technical Publication No. 82, 95 p.
- Johnson, Brent, 1985, Water Use data for public water suppliers and self-supplied industry in Utah 1982, 1983: Utah Department of Natural Resources Water Use Report No. 5, 137 p.
- Lindskov, K. L., and Kimball, B. A., 1984a, Quantity and quality of streamflow in the southeastern Uinta basin, Utah and Colorado: U.S. Geological Survey Water-Supply Paper 2224, 72 p.
- , 1984b, Water resources and potential hydrologic effects of oil-shale development in southeastern Uinta basin, Utah and Colorado: U.S. Geological Survey Professional Paper 1307, 31 p.
- Seller, R. L., and others, 1985, Ground-water conditions in Utah, spring of 1985: Utah Division of Water Resources Cooperative Investigations Report 25, 84 p.
- Stephens, D. W., 1985, Why Scofield Reservoir is eutrophic--Effects of nonpoint source pollutants on a water supply reservoir in Utah, in Perspectives on nonpoint source pollution, U.S. Environmental Protection Agency Report 440/5-85-001, p. 142-146.
- Thomas, B. E., and Lindskov, K. L., 1983, Methods for estimating peak discharge and flood boundaries on streams in Utah: U.S. Geological Survey Water-Resources Investigation Report 83-4129, 77 p.
- Utah Department of Health, 1984, Scofield Lake phase 1 study-water chemistry and phytoplankton data: Salt Lake City, Bureau of Water Pollution Control, 246 p.
- Waddell, K. M., Darby, D. W., and Theobald, S. M., 1983, Chemical and physical characteristics of water and sediment in Scofield Reservoir, Carbon County, Utah: U.S. Geological Survey Water-Supply Paper 2247, 36 p.
- Waddell, K. M., Seller, R. L., and Solomon, D. K., 1986, Chemical quality of ground water in Salt Lake Valley, U.S. Geological Survey Open-File Report 86-138, 67 p.

DEFINITION OF TERMS

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

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

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

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

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

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at $44.5^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$ on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter micro-organisms, such as bacteria.

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

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

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

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

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

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

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

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

Dissolved refers to that material in a representative water sample which passes through a 0.45 μm membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

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

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Eplimnion is the uppermost region of a stratified lake which is characterized as having water of nearly uniform temperature, and dissolved oxygen concentrations generally near saturation.

Eutrophic is a condition in which the water in the lake, pond, or reservoir is enriched with plant nutrients such as nitrogen and phosphorus which results in large amounts of plant and algal production. As the plants and algae die and sink to the bottom, an organic sediment is created which removes oxygen from the water as it decays.

Eutrophication is the natural process of enrichment and aging of a body of water that may be accelerated by the activities of man. Pertains to water bodies in which primary production of high because of a large supply of available nutrients.

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

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

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

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

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

Hypolimnion is the lower region of a stratified lake which is characterized as having water with cooler temperatures, and low to very low concentrations of dissolved oxygen.

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

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

Meso-eutrophic is intermediate stage in lake classification between the oligotrophic and eutrophic stages, in which primary production occurs at a greater rate than in oligotrophic lakes, but at a lesser rate than in eutrophic lakes. This is due to a moderate supply of nutrients.

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

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

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

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

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

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

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
Clay	0.00024 - 0.004	Sedimentation
Silt . . . . .	.004 - .062	Sedimentation
Sand . . . . .	.062 - 2.0	Sedimentation or sieve
Gravel	2.0 - 64.0	Sieve

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

Percent composition is a unit for expressing the ratio of a particular part of a sample or population in terms of types, numbers, mass or volume.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

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

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

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

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

Suspended-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft³/s) x 0.0027.

Suspended-sediment load is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry mass or volume, that passes a section during a given time.

Total sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

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

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

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

Stratification is a natural process in which bodies of standing water become colder near the bottom and warmer near the surface. The two layers are separated by a thinner middle layer characterized by a rapidly changing temperature profile.

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

Surface area of a lake is that area outlined on the latest U.S.G.S topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

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

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

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

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

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

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

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

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1980, is called the "1980 water year".

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

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

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

DOWNSTREAM ORDER AND STATION NUMBER

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

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in a series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 03041000, which appears just to the left of the station name, includes a 2-digit part number "03" plus the 6-digit downstream order number "041000."

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

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

The well and miscellaneous site number system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, assign sequential numbers "01," "02," etc. as one would for wells. See figure 17.

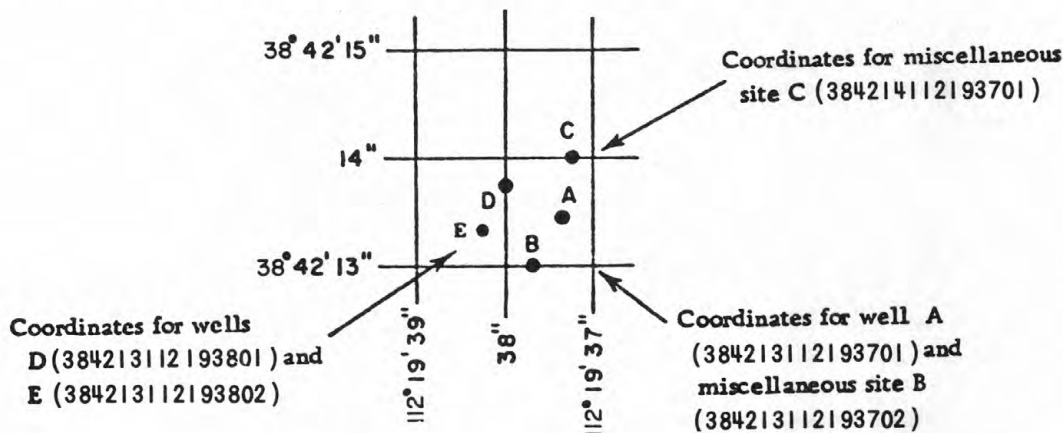


Figure 17.—System for numbering wells and miscellaneous sites (latitude and longitude).

In addition to the well number that is based on latitude and longitude given for each well, another well number is given that is based on the U.S. Bureau of Land Management's system of land subdivision. This well number is familiar to the water users of Utah and shows the location of the well by quadrant, township, range, section, and position within the section. See figure 18. The capital letter at the beginning of the location number indicates the quadrant in which the well is located. Four quadrants are formed by the intersection of the base line and the principal meridian--A indicates the northeast quadrant, B the northwest, C the southwest, and D the southeast. The first numeral indicates the township, the second the range, and the third the section in which the well is located. Lowercase letters following the section number locate the well within the section. The first letter denotes the quarter section, the second the quarter-quarter section, and the third the quarter-quarter-quarter section. The letters are assigned within the section in a counterclockwise direction beginning with (a) in the northeast quarter of the section. Letters are assigned within each quarter section and quarter-quarter section in the same manner. Where two or more locations are within the smallest subdivision, consecutive numbers beginning with 1 are added to the letters in the order in which the wells are inventoried. For example, (C-16-9)15daa-2 indicates a well in the northeast quarter of the northeast quarter of the southeast quarter of sec. 15, T.16 S., R.9 W., and shows that this is the second well inventoried in the quarter-quarter-quarter section. The capital letter C indicates that the township is south of the Salt Lake Base Line and that the range is west of the Salt Lake Meridian.

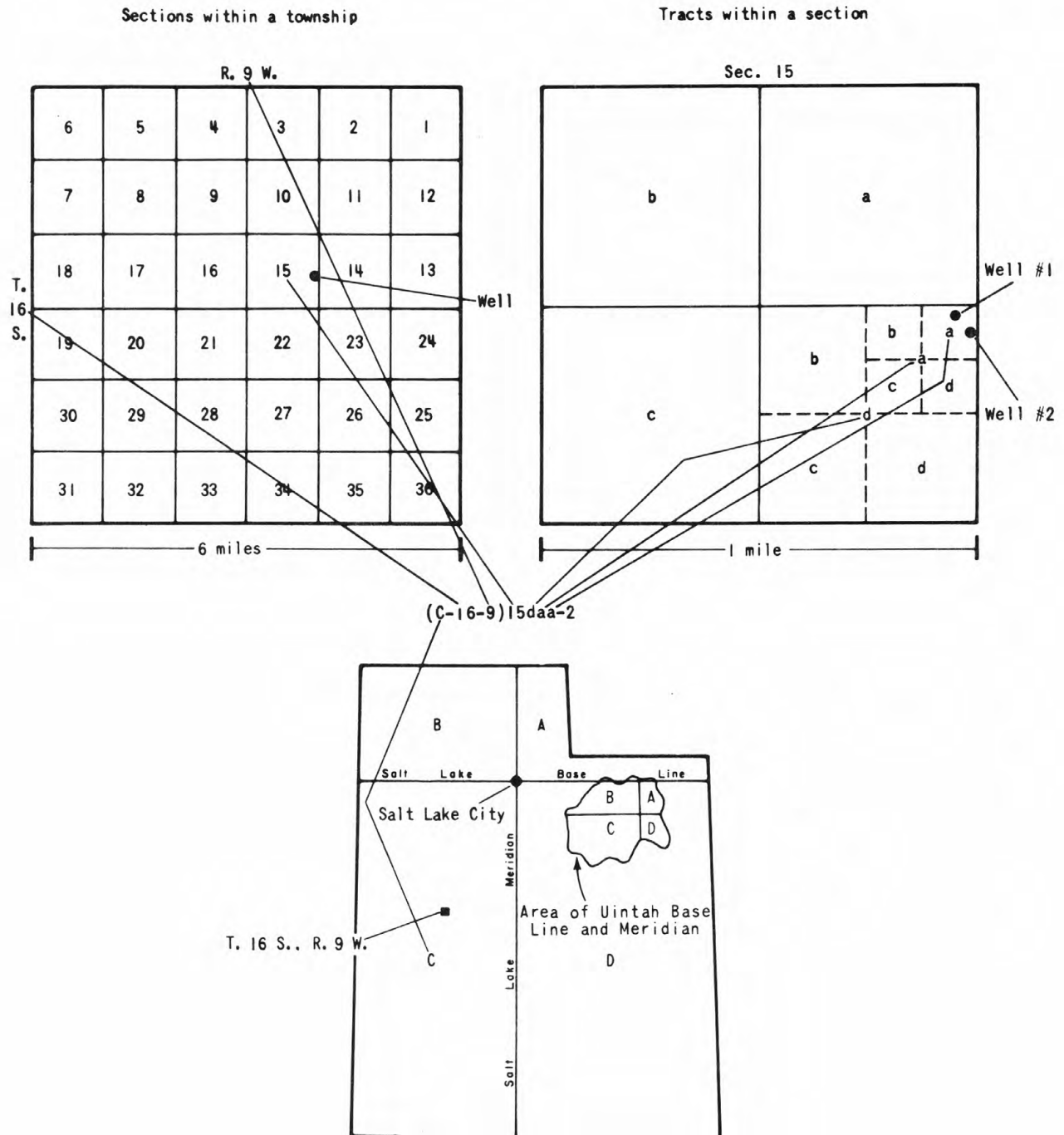


Figure 18.—System for numbering wells (township and range).

In addition to the Salt Lake Base Line and Salt Lake Meridian, which apply to most of Utah, the Uintah Base Line and Meridian are the basis for describing locations in a small, irregularly shaped area of northeastern Utah. The quadrants, townships, ranges, sections, and parts of sections are designated in the same way as for the Salt Lake Base Line and Meridian. For any location in the Uintah area, however, the letter "U" precedes the parenthesis.

SPECIAL NETWORKS AND PROGRAMS

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

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in National or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radiol isotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations (fig. 19) consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, Book 3, Chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

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

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

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise, daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station tabulations of the daily and monthly figures. For gaging stations on streams or canals, a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs, a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year which begins on October 1 and ends on September 30.

The description of the gaging stations gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information obtained later. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water years October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. For all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage referred to National Geodetic Vertical Datum of 1929; and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum of 1929 is explained in "DEFINITION OF TERMS" on page 17.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations, information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than percent. Under "EXTREMES," the extremes for the period of record are given first, information available outside the period of record is given second, and those for the current year are given last. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. Peak discharges for some stations are listed with "EXTREMES FOR THE CURRENT YEAR"; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

Skeleton rating tables are published, immediately following "EXTREMES," for stream-gaging stations where they serve a useful purpose and the dates of applicability can be easily identified.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage relation, or if any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Discharge measurements made at sites other than continuous-record stations are listed in a single table.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of Field Data and Computed Results

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

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good," within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

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

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations such as discharge measurements, gage-height records, and rating tables is available from the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Records of Discharge Collected by Agencies

Other Than the Geological Survey

Records of discharge not published by the Geological Survey, but for which an index is maintained by the Office of Water Data Coordination, were collected in Utah at 25 sites during the 1985 water year by the following agencies: Records at 13 sites were collected by the U.S. Forest Service, at 4 sites by the Weber River Distribution System; and at 2 sites by the Salt Lake County Water Conservancy District; and at 1 site each by the following: Ogden River Water Users, Clear Lake Waterfowl Management Area, Metropolitan Water District of Salt Lake City, Utah Department of Natural Resources, U.S. Army Corps of Engineers, and U.S. Bureau of Reclamation. The Office of Water Data Coordination, Water Resources Division, U.S. Geological Survey, Reston, Virginia 22092, maintains an index of these sites. Information on records of specific sites can be obtained from that office upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analyses usually are collected at or near gaging stations (fig. 20). The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, water temperature, sediment discharge, etc.); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

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

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values for each constituent measured, and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record.

Specific conductance and temperature only were measured at 157 stations in Utah, usually at 1-month intervals (fig. 21). In the tables on pages 342 to 369 a few data are shown as 50 (less than) micromhos or 8,000 (more than) micromhos. Discharge records and detailed information on locations of these stations are given in this report.

Water Temperature

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

At stations where recording instruments are used, maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

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

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

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the Data

Only ground-water level data from selected wells with continuous recorders from a basic network of observation wells are published herein (fig. 22). This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. (See figures 17 and 18.)

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet with reference to either the National Geodetic Vertical Datum of 1929 or land-surface datum (lsd). National Geodetic Vertical Datum of 1929 is the datum plane on which the National network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above the National Geodetic Vertical Datum of 1929 is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

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

Access to WATSTORE Data

The National Water Data Storage and Retrieval System (WATSTORE) was established for handling water collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey as its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's district offices (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-seven manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Pickett St., Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

- 1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. *Measurement of time of travel and dispersion in streams by dye tracing*, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.
- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P. E. Greeson, T. A. Ehlike, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

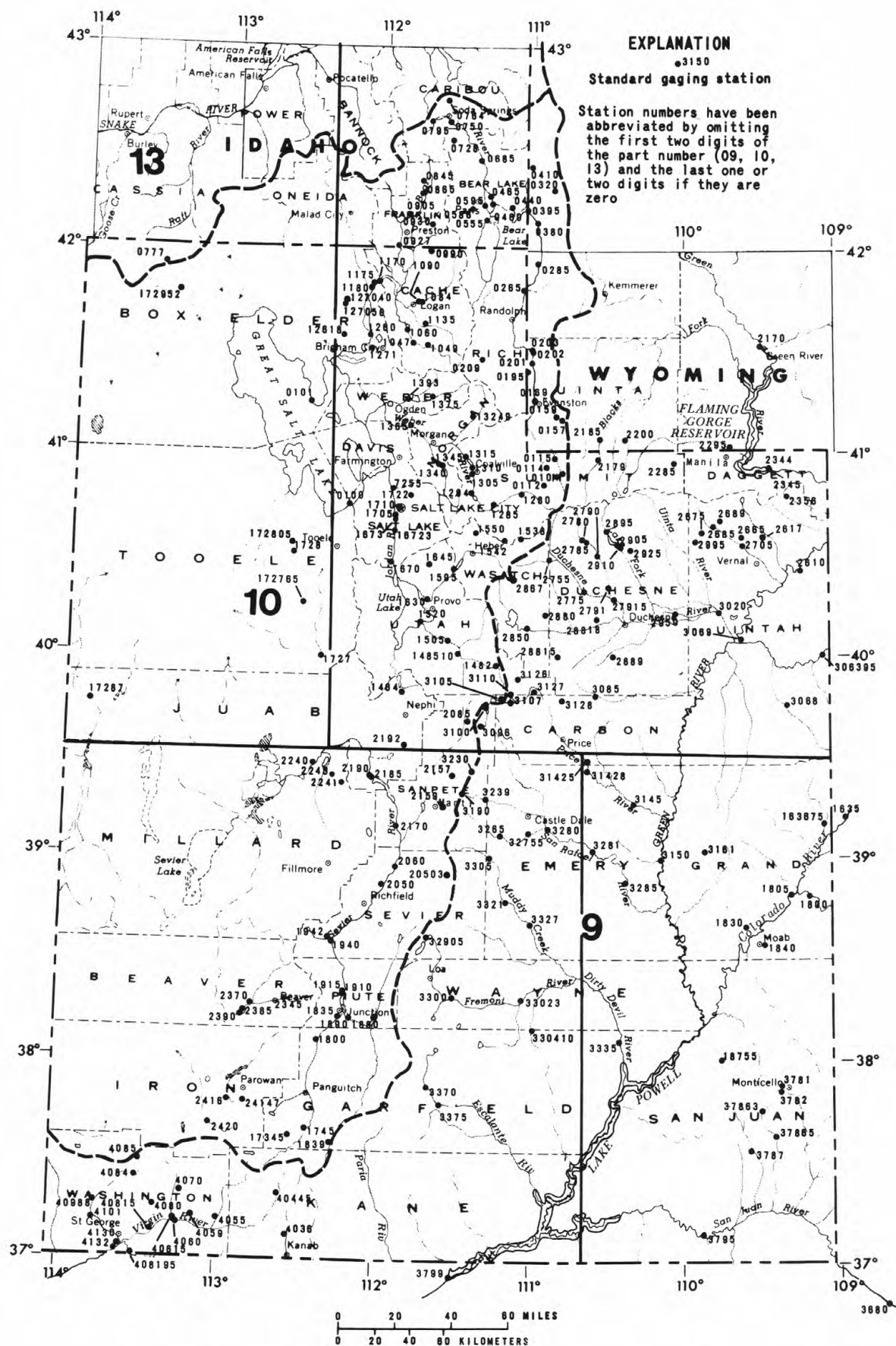
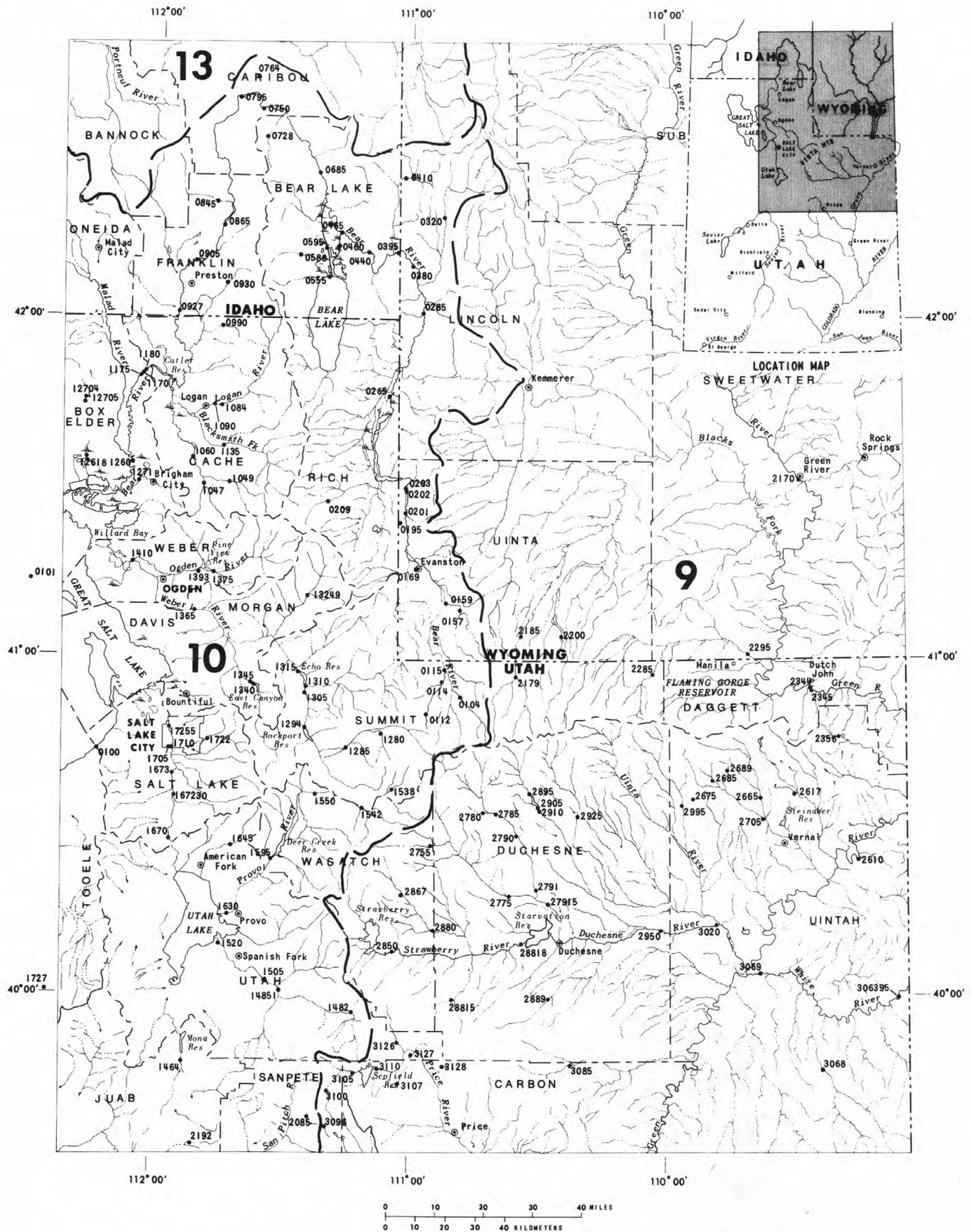
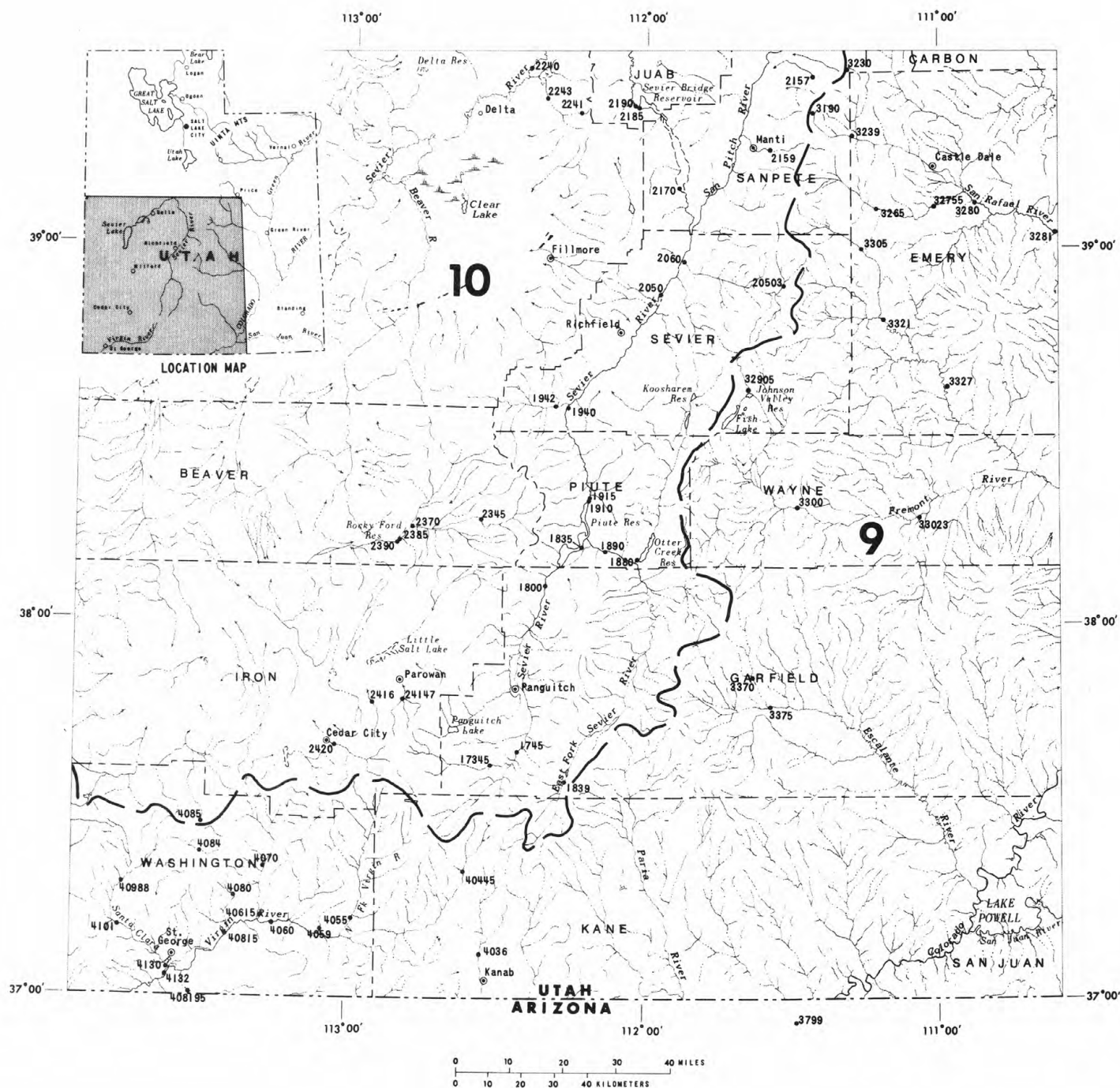


Figure 19.—Map showing location of gaging stations in Utah.





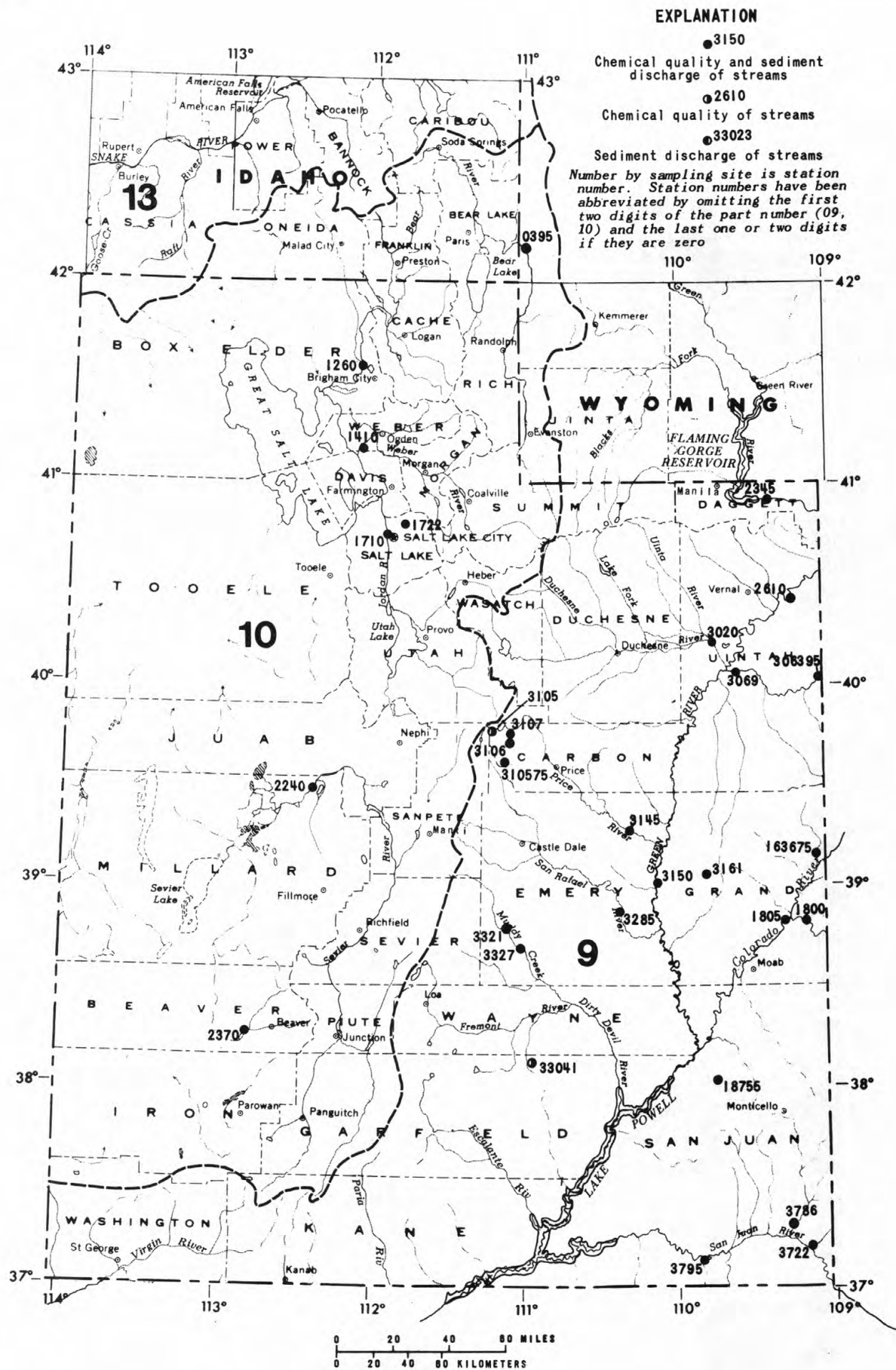


Figure 20.—Map showing location of surface-water-quality stations in Utah.

HYDROLOGIC-DATA STATION RECORDS

31

COLORADO RIVER MAIN STEM

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 39°07'45", long 109°01'36", in SE1/4NW1/4 sec.5, T.11 S., R.104 W., Mesa County, Hydrologic Unit 14010005, on right bank 0.7 mi downstream from McDonald Creek, 12 mi southwest of Mack, Colorado, and 1.5 mi upstream from Colorado-Utah State line.

DRAINAGE AREA.--17,843 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1951 to current year.

REVISED RECORDS.--WRD Colo. 1974: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,325 ft above National Geodetic Vertical Datum of 1929, from topographic map. May 1951, to October 1979, water-stage recorder at site 5.7 mi upstream at different datum.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, and diversions for irrigation. (Records include all return flow from irrigated areas).

AVERAGE DISCHARGE.--34 years, 6,267 ft³/s; 4,540,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69,800 ft³/s, May 27, 1984, gage height, 16.12 ft, (from high-water mark); minimum daily, 960 ft³/s, Sept. 7, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,300 ft³/s at 2200 May 5, gage height, 11.64 ft; minimum daily, 3,580 ft³/s, Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6070	6760	6260	5890	5610	6530	7320	22600	28400	12600	7850	3710
2	6930	6620	6240	5510	5220	6800	7460	24600	25600	11900	7280	3800
3	6170	6580	6130	5140	5190	7110	7730	26800	24700	11600	7070	3900
4	6930	6550	5940	5280	5350	6710	8450	31300	25200	11500	6990	4100
5	7360	6470	5890	5280	5560	6580	9040	36800	25400	11400	6590	4150
6	7610	6450	5700	5650	5600	6610	8530	38200	26700	11100	6460	4140
7	7390	6620	5500	5910	5420	6770	8950	37000	28100	10800	5980	4190
8	7040	6660	5410	6350	5710	6760	9420	36600	31000	10400	5700	4400
9	6920	6720	5680	6710	6040	6740	10400	37200	36600	10000	5490	4430
10	6780	6720	5970	6620	6340	6800	12400	35800	37000	9320	5270	4380
11	6540	6630	5910	6430	6170	8160	13400	35800	36000	8710	5160	4430
12	6640	6730	5930	6270	5780	8670	14100	34300	32400	8320	5140	4820
13	7200	6840	5850	5980	5770	8190	15600	31200	28800	7980	5120	5050
14	7200	6810	5610	5700	5960	7010	16800	27100	27400	8600	5100	5080
15	7530	6650	5500	5540	5970	7170	17800	23900	27100	8520	4840	4990
16	7320	6500	5730	5620	5980	7190	19900	22000	25500	7950	4690	5720
17	7250	6490	5880	5660	5970	7290	22000	21900	25400	7680	4570	5830
18	7460	6420	5540	6110	6050	7380	22200	22100	24900	7850	4460	5630
19	7510	6300	5290	6290	6170	7440	23200	22900	23500	8240	4740	5860
20	7390	6210	5360	6510	6140	7450	23000	23700	23800	8730	4180	5640
21	7410	6130	5380	6640	6470	7540	21900	23200	22600	10700	4180	5680
22	7350	6090	4640	6700	7000	7440	20200	22800	22800	10800	4150	6010
23	7190	6230	5220	6510	6740	7700	18900	22600	22100	11500	3900	6150
24	7250	6420	5080	6410	6200	7170	17600	23400	20700	11400	3900	6220
25	7160	6480	5240	6320	6210	7220	17900	24900	20300	11100	3970	6000
26	6960	6530	5730	6300	6380	7540	18500	26400	21300	10200	3940	5860
27	6920	6410	5490	6430	6370	8080	17700	28600	19600	9420	3830	5010
28	7010	6080	5120	6600	6510	8470	17700	29800	16800	8830	3760	5050
29	6830	6180	6120	6670	---	8450	19200	30600	15000	8750	3830	6120
30	6850	6440	6010	6640	---	8530	20800	31400	13600	8990	3670	7230
31	6830	---	5950	6390	---	7970	---	30100	---	8580	3580	---
TOTAL	219000	194720	175300	190060	167880	229470	468100	885600	758300	303470	155390	153580
MEAN	7065	6491	5655	6131	5996	7402	15600	28570	25280	9789	5013	5119
MAX	7610	6840	6260	6710	7000	8670	23200	38200	37000	12600	7850	7230
MIN	6070	6080	4640	5140	5190	6530	7320	21900	13600	7680	3580	3710
AC-FT	434400	386200	347700	377000	333000	455200	928500	1757000	1504000	601900	308200	304600
CAL YR 1984	TOTAL	5039210	MEAN	13770	MAX	68300	MIN	3370	AC-FT	9995000		
WTR YR 1985	TOTAL	3900870	MEAN	10690	MAX	38200	MIN	3580	AC-FT	7737000		

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Colorado, 1985."

COLORADO RIVER MAIN STEM

09163675 COTTONWOOD WASH AT I-70, NEAR CISCO, UT

LOCATION.--Lat 39°04'54", long 109°13'52", in SW1/4NE1/4 sec.11, T.20 S., R.24 E., Grand County, Hydrologic Unit 14030001, on left bank, 50 ft north of I-70, and 36.3 mi east of Crescent Junction.

DRAINAGE AREA.--170 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,510 ft from topographic map.

REMARKS.--Records poor. Diversions for irrigation of approximately 300 acres above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 425 ft³/s July 27, 1984, gage height, 7.63 ft; minimum discharge, 0.29 ft³/s July 19, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 44 ft³/s July 30, gage height, 5.72 ft; minimum discharge, 0.29 ft³/s July 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e24	10	e8.8	e5.0	e1.5	8.0	6.3	8.4	7.3	.83	e2.6	e1.6
2	e10	10	e8.7	e5.0	e2.0	8.1	6.3	8.4	6.7	.81	e2.5	e1.8
3	e7.2	10	e8.6	e5.0	e2.5	5.6	5.9	8.4	6.4	.79	e2.7	e1.8
4	e8.2	9.8	e8.0	e4.5	e2.5	4.5	5.9	8.4	6.0	.63	e2.5	e1.8
5	e6.4	9.7	e8.2	e4.0	e2.0	4.9	5.8	9.0	6.1	.70	e2.4	e2.0
6	e6.4	9.7	e8.5	e4.5	e2.0	7.3	5.9	8.4	6.9	.83	e2.2	e2.0
7	e6.8	9.7	e8.0	e4.5	e2.5	7.6	5.8	7.0	7.0	.78	e2.2	e2.0
8	e6.4	9.7	e7.5	e5.0	e2.5	7.7	6.3	6.5	e6.7	.77	e1.7	e1.8
9	e6.9	10	e7.0	e5.0	e3.0	7.7	6.6	8.4	e6.9	.76	e1.7	e1.8
10	e7.0	11	e6.5	e4.5	e3.0	9.9	5.4	9.0	e6.2	.45	e1.5	e1.8
11	e7.0	9.9	e7.0	e4.5	e2.5	9.6	5.4	9.0	e6.4	.36	e1.5	e2.4
12	e7.2	9.7	e6.5	e4.5	e2.5	9.1	5.0	8.4	e6.8	.36	e1.1	e1.5
13	e7.2	10	e6.0	e4.5	e3.0	7.6	4.9	9.7	e5.9	.35	e1.1	e3.0
14	e7.2	10	e6.0	e4.5	e3.0	7.5	4.5	9.0	e6.1	.38	e.82	e2.4
15	e7.4	10	e5.5	e4.5	e4.0	8.5	5.1	8.4	e6.4	.37	e.62	e2.4
16	e7.4	10	e5.5	e5.0	e4.0	10	7.1	8.4	e6.4	.35	e.62	e2.6
17	e7.6	10	e5.5	e5.0	e4.5	11	8.6	10	e6.1	.87	e.75	e2.4
18	e7.8	10	e5.5	e5.0	e4.5	11	8.9	10	e5.2	.39	e.60	e7.8
19	e7.8	11	e5.0	e5.0	e4.0	11	11	7.6	e4.8	.32	e.52	e4.1
20	e7.8	10	e5.5	e5.5	e4.0	12	14	7.0	e4.8	.60	e.52	e2.6
21	e7.2	9.6	e5.0	e5.0	e5.0	11	15	6.5	e5.2	.78	e.52	e2.9
22	e7.2	9.8	e5.0	e5.0	e5.0	12	14	7.6	e5.4	.62	e.60	e2.7
23	e7.4	9.3	e4.5	e5.0	e5.5	12	14	6.5	e5.5	1.6	e.60	e3.1
24	e7.6	9.3	e5.0	e4.5	e5.5	11	14	6.5	e5.5	1.7	e.70	e3.3
25	e7.8	9.5	e5.0	e4.5	e6.0	11	15	5.8	e6.4	1.6	e.70	e3.3
26	e7.6	e9.0	e5.0	e4.5	7.0	7.8	15	5.8	e5.2	2.2	e.72	e3.9
27	e7.6	9.4	e4.5	e5.0	6.8	5.8	13	5.8	e3.9	2.8	e.84	e3.9
28	e8.6	7.5	e4.5	e5.0	7.6	7.3	8.7	5.8	.82	2.7	e1.0	e3.5
29	e9.2	7.7	e5.0	e4.5	---	7.0	8.4	6.5	.97	2.8	e1.1	e3.5
30	9.7	e9.0	e5.5	e4.0	---	5.7	8.1	6.5	.89	10	e1.3	e3.9
31	11	---	e5.0	e3.0	---	6.3	---	6.9	---	e2.1	e1.6	---
TOTAL	254.6	290.3	191.8	145.0	107.9	265.5	259.9	239.6	164.88	40.60	39.83	97.1
MEAN	8.21	9.68	6.19	4.68	3.85	8.56	8.66	7.73	5.50	1.31	1.28	3.24
MAX	24	11	8.8	5.5	7.6	12	15	10	7.3	10	2.7	15
MIN	6.4	7.5	4.5	3.0	1.5	4.5	4.5	5.8	.82	.32	.52	1.6
ACFT	505	576	380	288	214	527	516	475	327	81	79	193
CAL YR 1984	TOTAL	2547.00	MEAN	6.96	MAX	100	MIN	.60	ACFT	5050		
WTR YR 1985	TOTAL	2097.01	MEAN	5.75	MAX	24	MIN	.32	ACFT	4160		

e Estimated.

COLORADO RIVER MAIN STEM

33

09163675 COTTONWOOD WASH AT I-70, NEAR CISCO, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1983 to current year.

SEDIMENT DATA: April 1983 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
OCT 29...	1200	8.1	1110	8.6	18.5	7.5	410	8.1	56	65	150	44
DEC 19...	1310	5.0	1430	8.6	5.0	0.0	460	9.2	56	78	180	46
FEB 25...	1430	6.0	1390	8.5	12.5	7.5	410	8.2	51	69	160	46
MAR 29...	1200	6.6	1280	8.5	0.0	3.5	450	8.9	67	68	160	44
APR 29...	1330	8.9	1140	8.6	25.5	19.0	400	7.9	57	62	130	41
MAY 29...	1300	6.1	1240	8.6	28.5	19.5	390	7.8	50	65	130	42
JUN 27...	1315	4.4	1190	8.6	27.0	22.0	400	7.9	45	69	130	42
JUL 26...	1200	1.8	1290	8.5	31.5	25.0	410	8.1	37	76	160	46
AUG 26...	1230	0.68	1570	8.7	30.0	20.5	460	9.3	34	92	200	48
SEP 05...	0830	0.71	1410	8.6	16.0	13.5	460	9.1	43	85	170	45
DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 29...	3.3	2.0	380	280	11	0.2	20	813	1.1	17.8	<0.1	0.01
DEC 19...	3.7	2.1	480	370	12	0.2	19	1000	1.4	13.5	<0.1	0.01
FEB 25...	3.5	2.3	460	340	14	0.2	18	930	1.3	15.2	<0.1	<0.01
MAR 29...	3.4	2.5	360	330	11	0.2	19	874	1.2	15.6	<0.1	0.03
APR 29...	2.9	2.6	340	280	11	0.2	20	764	1.0	18.3	<0.1	0.07
MAY 29...	2.9	1.5	300	310	11	0.2	19	768	1.0	12.7	<0.1	0.02
JUN 27...	2.9	1.9	330	300	11	0.0	18	773	1.1	9.2	<0.1	0.08
JUL 26...	3.5	2.4	330	390	14	0.2	13	889	1.2	4.4	<0.1	0.00
AUG 26...	4.1	2.7	370	490	19	0.2	13	1070	1.5	2.0	<0.1	0.08
SEP 05...	3.5	2.3	390	400	13	0.2	16	961	1.3	1.8	<0.1	0.04

COLORADO RIVER MAIN STEM

09163675 COTTONWOOD WASH AT I-70, NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 29...	1200	40
DEC 19...	1310	40
FEB 25...	1430	40
MAR 29...	1200	40
APR 29...	1330	30
MAY 29...	1300	40
JUN 27...	1315	50
JUL 26...	1200	30
AUG 26...	1230	60
SEP 05...	0830	50

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .125 MM
OCT 29...	1200	8.1	7.5	194	4.2	--	--	--	--	--
DEC 19...	1310	5.0	0.0	212	2.9	--	--	--	--	--
FEB 25...	1430	6.0	7.5	277	4.5	--	--	--	--	--
MAR 29...	1200	6.6	3.5	352	6.3	--	--	--	--	--
APR 29...	1330	8.9	19.0	341	8.2	--	--	--	--	--
MAY 29...	1300	6.1	19.5	144	2.4	34	61	87	99	100
JUN 27...	1315	4.4	22.0	98	1.2	--	--	--	--	--
JUL 26...	1200	1.8	25.0	62	.30	--	--	--	--	--
SEP 05...	0830	.71	13.5	127	.24	--	--	--	--	--

DOLORES RIVER BASIN

35

09180000 DOLORES RIVER NEAR CISCO, UT

LOCATION.--Lat 38°47'50", long 109°11'40", in SW1/4SE1/4 sec.18, T.23 S., R.25 E., Grand County, Hydrologic Unit 14030004, on left bank 0.2 mi downstream from Line Canyon, 9.1 mi upstream from mouth, 13.5 mi downstream from Colorado-Utah State line, and 13.9 mi southeast of Cisco.

DRAINAGE AREA.--4,580 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733.

REVISED RECORDS.--WDR UT-75-1: 1974.

GAGE.--Water-stage recorder. Altitude of gage is 4,165 ft from river-profile map. Dec. 6, 1950 to Apr. 18, 1965, at site 200 ft downstream at different datum; Apr. 19, 1965 to Sept. 3, 1975 at site 10 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Many diversions for irrigation above station.

AVERAGE DISCHARGE.--35 years, 835 ft³/s, 605,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,400 ft³/s Apr. 21, 1958, gage height, 9.84 ft at different datum; minimum, 3.4 ft³/s Sept. 23, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 11	1400	*11,200	*12.43	May 30	2130	5,070	10.71
Apr. 30	1000	5,660	10.88	Jun. 9	2100	7,510	11.51
May 6	unknown	unknown	unknown				

Minimum discharge, 76 ft³/s Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	299	406	280	350	184	284	1480	4660	4030	e1200	582	190
2	515	406	281	266	132	273	1510	4220	3670	e1000	517	187
3	593	395	272	192	179	275	1720	4940	3290	e900	499	209
4	648	390	262	212	253	297	2400	e5660	3030	e850	499	215
5	672	370	273	210	239	274	3930	e7240	3390	e900	457	206
6	608	365	241	204	264	259	e5540	e8950	3250	e900	426	189
7	541	353	244	251	296	272	e5760	e8500	3320	e850	393	183
8	473	356	248	285	298	280	e6920	e8900	4050	e800	363	179
9	e440	346	285	310	302	284	e8270	e7800	e5780	e800	351	192
10	e400	349	348	307	348	297	e9570	e7700	6280	e750	350	196
11	e370	338	333	273	362	407	10000	e6400	5290	e700	317	186
12	379	323	351	239	310	639	9370	5630	5750	e650	301	225
13	462	342	341	212	267	1320	e9790	5290	4800	e600	304	233
14	467	326	324	192	267	1080	e9420	4750	3910	e650	275	252
15	562	330	312	170	246	1210	e9010	3740	3840	e700	242	274
16	551	311	310	183	244	1770	8950	3430	3930	e650	219	580
17	496	295	293	197	285	1800	e9200	3280	3840	e600	215	707
18	479	306	299	228	282	e1850	9080	3200	3680	591	219	526
19	476	313	283	e261	289	e1880	7370	3240	3300	656	214	418
20	490	304	299	e297	318	e1970	6220	3390	2890	897	219	485
21	488	323	299	e328	478	e2050	5630	3370	2740	1070	221	518
22	455	307	286	e344	457	e2200	5400	3330	2530	1160	211	978
23	436	310	241	e368	403	2050	4910	3200	2360	1130	232	773
24	429	319	210	e490	334	1870	4520	3250	2230	1040	214	563
25	426	336	213	630	300	2000	4490	3340	2140	787	205	444
26	415	343	253	615	282	2500	4670	3500	2100	681	199	395
27	404	327	293	639	295	e2300	4150	3950	1720	631	190	363
28	405	292	391	615	268	1940	4370	4060	1510	601	185	339
29	412	286	440	602	---	2140	5010	4540	e1400	573	173	399
30	396	305	534	587	---	2000	5280	4850	e1300	693	167	442
31	398	---	417	316	---	e1600	---	4250	---	794	192	---
TOTAL	14585	10072	9456	10373	8182	39371	183940	152560	101350	24804	9151	11046
MEAN	470	336	305	335	292	1270	6131	4921	3378	800	295	368
MAX	672	406	534	639	478	2500	10000	8950	6280	1200	582	978
MIN	299	286	210	170	132	259	1480	3200	1300	573	167	179
ACFT	28930	19980	18760	20570	16230	78090	364800	302600	201000	49200	18150	21910
CAL YR 1984	TOTAL 639068											
WTR YR 1985	TOTAL 574890											
	MEAN 1746											
	MAX 13300											
	MIN 183											
	ACFT 1268000											
	MIN 132											
	ACFT 1140000											

e Estimated.

DOLORES RIVER BASIN

09180000 DOLORES RIVER NEAR CISCO, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1951 to current year.

SPECIFIC CONDUCTANCE: March 1951 to September 1959, October 1964 to September 1981, March 1982 to current year.

WATER TEMPERATURES: March 1951 to September 1959, October 1964 to September 1981, March 1982 to current year.

SUSPENDED-SEDIMENT DISCHARGE: March 1951 to December 1953, October 1957 to September 1964, October 1978 to September 1979, quarterly, October 1979 to current year, periodically.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 21,600 microsiemens July 9, 1977; minimum, 240 microsiemens June 22, 1983.

WATER TEMPERATURES: Maximum, 29.0°C Aug. 14, 1958, July 18, 1977; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 4,720 microsiemens Dec. 7; minimum, 330 microsiemens June 12.

WATER TEMPERATURES: Maximum, 26.0°C several days during July and August; minimum, 0.0°C several days during January and February.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NIU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 11...	1130	353	2460	8.4	20.0	13.5	--	8.6	652	--	--
NOV 21...	1200	332	2910	8.4	10.0	4.0	5.3	11.1	657	<1	<1
DEC 20...	1200	301	2850	8.2	3.5	2.5	--	11.7	659	--	--
FEB 25...	1040	305	1850	8.2	6.0	3.5	--	11.4	657	--	--
MAR 22...	1030	2130	670	8.4	6.0	6.0	530	10.5	655	<1	<1
APR 26...	1045	5150	485	8.3	11.5	9.0	210	9.4	649	<1	<1
MAY 24...	1030	3020	550	8.2	18.5	15.5	70	9.0	659	<1	<1
JUN 21...	1300	2820	460	8.1	30.0	18.0	--	8.5	659	--	--
JUL 22...	1100	1180	1560	8.3	23.5	21.0	1500	8.0	657	<1	<1
AUG 22...	1020	202	3300	8.3	28.0	22.5	--	--	--	--	--
SEP 03...	1030	188	3570	8.5	27.0	20.5	3.2	8.1	655	90	380

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	CAR- BONATE IT-FLD (MG/L AS CO3)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3)
OCT 11...	370	7.4	88	36	340	66	8.0	17	--	--	--
NOV 21...	450	9.1	100	49	420	66	8.9	21	190	39	185
DEC 20...	500	9.9	110	54	410	63	8.2	19	--	--	--
FEB 25...	430	8.5	100	43	210	51	4.6	9.8	--	--	--
MAR 22...	240	4.8	63	20	53	32	1.5	3.6	230	6.1	192
APR 26...	200	4.1	47	21	37	28	1.2	2.9	160	--	133
MAY 24...	190	3.7	50	15	40	31	1.3	2.3	150	--	121
JUN 21...	140	2.7	39	9.5	38	37	1.5	1.7	--	--	--
JUL 22...	270	5.4	67	25	190	59	5.2	10	410	--	333
AUG 22...	470	9.4	110	47	520	69	11	27	--	--	--
SEP 03...	510	10	120	51	580	70	12	27	180	10	147

DOLORES RIVER BASIN

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT 11...	260	550	0.3	7.8	--	1380	1.9	1320	0.44	--
NOV 21...	320	660	0.3	8.1	1740	1750	2.4	1560	0.31	0.72
DEC 20...	340	630	0.3	7.6	--	1660	2.3	1350	0.3	--
FEB 25...	320	270	0.3	7.3	--	1100	1.5	906	0.29	--
MAR 22...	140	59	0.3	7.2	405	472	0.55	2330	0.13	0.09
APR 26...	130	11	0.2	10	360	338	0.49	5010	0.11	0.07
MAY 24...	99	49	0.1	7.7	350	336	0.48	2850	0.1	0.06
JUN 21...	62	47	0.2	6.7	--	251	0.34	1910	0.14	--
JUL 22...	200	280	0.3	6.8	842	982	1.1	2680	0.35	0.05
AUG 22...	300	830	0.4	4.4	--	1920	2.6	1050	0.49	--
SEP 03...	350	910	0.4	5.4	2070	2150	2.8	1050	0.55	0.19

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT 11...	--	--	--	--	--	--	--	--	<0.01	0.03
NOV 21...	0.93	1.1	1.10	1.1	4.9	0.02	--	<0.01	<0.01	0.03
DEC 20...	--	--	--	--	--	--	--	--	<0.01	0.03
FEB 25...	--	--	--	--	--	--	--	--	0.01	0.03
MAR 22...	0.12	2.5	2.50	2.5	11	0.95	--	<0.01	<0.01	0.03
APR 26...	0.09	1.2	1.20	1.2	5.3	0.33	--	0.01	<0.01	0.03
MAY 24...	0.08	0.6	0.6	0.6	2.7	0.15	0.46	0.05	<0.01	0.03
JUN 21...	--	--	--	--	--	--	--	--	<0.01	0.03
JUL 22...	0.06	4.2	4.20	4.2	19	0.39	1.2	0.01	0.02	0.06
AUG 22...	--	--	--	--	--	--	--	--	<0.01	0.03
SEP 03...	0.24	1.0	1.00	1.0	4.4	<0.01	--	<0.01	0.01	0.03

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV 21...	1200	20	<1	<100	<10	2	<1	1.00	1	30	4
MAR 22...	1030	50	<1	170	<0.50	<1	<1	<3.00	<1	40	<1
APR 26...	1045	10	1	57.00	<0.50	<1	<1	<3.00	4	10	9
JUL 22...	1100	<10	2	150	<0.50	<1	<1	<3.00	2	5.00	<1

DOLORES RIVER BASIN

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 21...	30	40	<0.1	5	2	2	1	1300	15	10
MAR 22...	30	11	<0.1	<10	4	2	<1	640	<6.0	120
APR 26...	20	<1	<0.1	<10	2	2	<1	450	<6.0	<3.00
JUL 22...	30	1	<0.1	<10	<1	6	<1	960	<6.0	10

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 11...	1130	90
DEC 20...	1200	100
FEB 25...	1040	80
JUN 21...	1300	30
AUG 22...	1020	120

SPECIFIC CONDUCTANCE (US/CM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2830	---	2890	1540	---	2490	840	490	450	800	1400	3630
2	3110	2600	2980	1750	1370	2420	860	540	470	970	1330	3840
3	2100	2600	3130	---	---	2460	900	500	490	1100	1610	3790
4	2450	2390	3080	2410	---	2500	920	480	485	1100	1750	3560
5	---	2560	3070	2660	3070	2710	880	450	480	---	---	3190
6	2050	---	3690	2710	3070	2610	800	400	455	1100	1830	3220
7	1690	2560	4720	4170	2970	2400	600	370	440	1150	1960	3230
8	---	2580	3680	---	2880	2450	510	---	415	---	2160	3300
9	2140	2640	3550	---	2680	---	465	360	380	1260	2230	3330
10	2280	2760	3370	---	2670	---	430	390	340	1260	2370	---
11	2600	2800	3100	---	2660	---	400	400	340	1230	2350	---
12	2600	2770	2490	2300	2270	2150	390	---	330	1290	2340	3480
13	2570	2810	2580	2130	2480	1980	390	430	365	1290	2510	3130
14	2800	2940	2450	3040	---	1720	390	500	380	1890	2650	3220
15	2570	2750	2510	2830	2060	1190	410	530	380	1090	---	---
16	---	2800	2770	2210	2300	1210	---	570	---	1240	2640	---
17	2310	2700	2700	2630	2430	840	---	580	---	1440	2740	---
18	1890	2910	2830	3610	2710	810	380	---	---	---	3200	---
19	2380	3300	2810	3660	2440	780	390	---	380	1630	---	---
20	2330	3210	2870	3160	1980	740	410	540	425	1600	---	---
21	---	2940	3010	1400	1750	---	---	---	455	1590	---	---
22	---	3080	2890	---	1810	710	---	540	455	1220	3300	---
23	2500	3050	---	1000	1760	710	530	560	475	1300	---	---
24	2530	2940	2740	980	1670	720	530	580	495	1250	3310	---
25	2530	2880	3090	1000	1780	690	---	550	510	1330	3450	---
26	2560	2750	---	1030	1760	660	530	550	510	1510	---	---
27	2570	---	---	---	2080	600	550	530	600	1540	---	---
28	2590	2920	---	1040	2340	---	550	470	660	1550	3160	---
29	2570	2700	2880	1080	---	---	550	---	700	---	3200	---
30	2550	2760	2650	1070	---	670	520	430	770	2030	3370	---
31	---	---	2390	1110	---	700	---	400	---	1530	3490	---
MEAN	2440	2800	3000	---	2290	1480	560	485	470	1340	---	---

DOLORES RIVER BASIN

39

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.0	---	4.0	2.0	---	7.0	10.0	10.0	18.0	23.0	24.0	25.0
2	22.0	9.0	4.0	1.0	.0	7.0	10.0	10.0	18.0	23.0	24.0	25.0
3	20.0	10.0	3.0	---	---	7.0	10.0	10.0	18.0	23.0	24.0	24.0
4	20.0	9.0	3.0	1.0	---	7.0	10.0	10.0	18.0	24.0	24.0	24.0
5	---	9.0	3.0	1.0	.0	7.0	10.0	10.0	18.0	---	---	24.0
6	18.0	---	2.0	1.0	.0	7.0	11.0	10.0	18.0	24.0	25.0	23.0
7	18.0	9.0	2.0	1.0	.0	7.0	11.0	10.0	18.0	24.0	25.0	23.0
8	---	9.0	2.0	---	.0	8.0	11.0	---	18.0	---	24.0	23.0
9	16.0	9.0	2.0	---	.0	---	11.0	12.0	18.0	24.0	24.0	20.0
10	17.0	7.0	2.0	---	.0	---	11.0	12.0	18.0	24.0	24.0	---
11	16.0	7.0	2.0	---	.0	---	12.0	12.0	18.0	24.0	24.0	---
12	16.0	7.0	2.0	.0	.0	8.0	12.0	---	18.0	24.0	24.0	19.0
13	16.0	7.0	2.0	.0	2.0	8.0	12.0	12.0	18.0	26.0	25.0	19.0
14	15.0	7.0	2.0	.0	---	10.0	12.0	12.0	19.0	26.0	25.0	19.0
15	15.0	7.0	2.0	.0	3.0	10.0	12.0	12.0	20.0	26.0	---	---
16	---	7.0	2.0	.0	3.0	10.0	---	15.0	---	26.0	25.0	---
17	11.0	7.0	2.0	.0	3.0	10.0	---	15.0	---	26.0	26.0	---
18	10.0	7.0	2.0	.0	5.0	10.0	12.0	---	---	---	26.0	---
19	8.0	7.0	2.0	.0	5.0	10.0	12.0	---	19.0	26.0	---	---
20	8.0	6.0	2.0	1.0	5.0	10.0	12.0	16.0	20.0	26.0	---	---
21	---	6.0	2.0	2.0	5.0	---	---	---	20.0	26.0	---	---
22	---	6.0	2.0	---	6.0	10.0	---	17.0	21.0	25.0	22.5	---
23	8.0	6.0	---	2.0	6.0	10.0	10.0	17.0	21.0	25.0	---	---
24	8.0	6.0	1.0	2.0	6.0	10.0	10.0	17.0	21.0	25.0	26.0	---
25	8.0	5.0	1.0	2.0	6.0	10.0	---	18.0	21.0	25.0	26.0	---
26	8.0	5.0	---	3.0	7.0	10.0	10.0	18.0	21.0	25.0	---	---
27	8.0	---	---	---	7.0	10.0	10.0	18.0	21.0	25.0	---	---
28	8.0	5.0	---	3.0	7.0	---	10.0	18.0	22.0	25.0	25.0	---
29	8.0	4.0	2.0	3.0	---	---	10.0	---	22.0	---	25.0	---
30	9.0	4.0	2.0	3.0	---	10.0	10.0	18.0	22.0	23.0	25.0	---
31	---	---	2.0	3.0	---	10.0	---	18.0	---	24.0	25.0	---
MEAN	13.5	7.0	2.0	---	3.0	9.0	11.0	14.0	19.5	24.5	---	---

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT						
11...	1130	353	13.5	--	167	159
NOV						
21...	1200	332	4.0	67	48	43
MAR						
22...	1030	2130	6.0	97	1660	9550
APR						
26...	1045	5150	9.0	89	816	11300
MAY						
24...	1030	3020	15.5	93	206	1680
JUL						
22...	1100	1180	21.0	--	3660	11700
AUG						
22...	1020	202	22.5	--	46	25
SEP						
03...	1030	188	20.5	80	87	44

COLORADO RIVER MAIN STEM

09180500 COLORADO RIVER NEAR CISCO, UT

LOCATION.--Lat 38°48'38", long 109°17'34", in NW1/4NW1/4 sec.17, T.25 S., R.24 E., Grand County, Hydrologic Unit 14030005, on left bank 1 mi downstream from Dolores River, 11 mi south of Cisco, 36 mi downstream from Colorado-Utah State line, 97 mi upstream from Green River, and 235 mi upstream from San Juan River, at mile 1,022.3.

DRAINAGE AREA.--24,100 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1895 to current year (1895 to 1910, calendar-year estimates only). Monthly discharge only for some periods, published in WSP 1313. Published as Grand River near Moab, October 1913 to November 1914, and as Grand River near Cisco, November 1914 to September 1917.

REVISED RECORDS.--WSP 918: 1913, 1937. WSP 1313: 1918-22.

GAGE.--Water-stage recorder. Altitude of gage is 4,090 ft from river-profile map. Prior to Nov. 10, 1914, several staff and chain gages at bridge near Moab, 31 mi downstream at datum, 3,937.73 ft above mean sea level.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions above station for irrigation and power, including several transmountain diversions. Flow regulated by Blue Mesa Reservoir (see station 09124600) since Nov. 27, 1965.

AVERAGE DISCHARGE.--74 years (1911-85), 7,724 ft³/s, 5,596,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,800 ft³/s June 19, 1917, gage height, 19.7 ft; minimum recorded, 558 ft³/s July 21, 1934, gage height, 0.44 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood on July 4, 1884 reached a discharge of about 125,000 ft³/s, from flood record at Fruita, Colorado.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 26,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 19	2300	32,000	10.68	May 30	1500	34,100	12.37
May 6	1130	*43,900	*14.68	Jun. 10	1530	42,000	14.47

Minimum discharge, 3,430 ft³/s Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6550	7500	6570	6060	5850	6770	8530	26200	30800	14200	9990	3700
2	7290	e7350	6510	e5760	5530	6880	8510	28000	28000	13600	9050	3820
3	7830	7260	6480	5210	5330	7140	9000	30000	25900	13000	8780	3930
4	7370	7240	6330	5210	5830	7120	10400	34100	26100	13100	8640	4140
5	8540	e7160	6300	5320	5800	6820	12400	39500	26200	13000	8120	4320
6	8460	7040	6100	5640	6120	6640	13300	43200	27000	12800	7710	4280
7	8410	7020	5850	5970	5940	6850	13900	43000	27900	12400	6880	4280
8	7790	7090	5830	6280	5840	7040	15300	42300	30100	12100	6330	4360
9	7540	7040	5790	6750	6320	6960	16800	42100	35500	11800	6040	4500
10	7400	e7010	6350	6770	6530	6980	18900	42000	40800	11100	5760	4320
11	7130	e7120	6340	6590	6570	8010	20300	41100	40400	10600	5580	4570
12	7150	e6990	6440	6430	6130	9200	21000	40200	37300	10100	5500	5050
13	7730	7160	6240	6220	5920	9510	22200	36100	32700	9790	5560	5230
14	7830	7210	5930	5940	6180	8420	23700	32000	30400	10000	5500	5320
15	8120	e6950	5750	5700	6270	7860	24500	27100	30000	10400	5300	5250
16	8210	e6830	5640	5740	6340	8690	26100	25000	29400	9750	5080	6080
17	7940	e6790	6040	5850	6430	8800	28800	24100	28300	9350	4930	6790
18	8090	e6720	6040	6100	6540	8940	30300	24300	27900	9290	4810	6640
19	8130	e6530	5530	6360	6560	9010	31000	25100	26700	9890	4960	6710
20	8130	e6410	5580	6850	6590	9180	31400	26100	27000	10500	4660	6410
21	8530	e6430	5590	7080	6700	9160	30200	26100	25200	12400	4510	6510
22	8140	6350	e5360	7280	7300	9230	29300	25600	24900	13100	4450	7090
23	7860	6350	5040	e6800	7120	9390	26500	25400	24200	13400	4170	7210
24	e7880	6560	5220	e6730	6770	8710	23900	25600	22700	13900	3960	7120
25	e7790	6700	5280	6960	6670	8800	22500	27100	21900	13200	3950	6790
26	e7510	6770	5840	6830	6640	9390	23100	28400	22900	12500	3930	6540
27	7540	6710	5950	6900	6640	9850	22500	30400	21900	11600	3840	5530
28	e7610	6370	5400	7040	6670	9930	22100	31700	19900	10900	3630	5210
29	7670	6250	6310	7160	---	9990	23600	32900	17000	10700	3590	6280
30	7480	6590	6270	7130	---	10100	25300	33800	15800	11500	3580	7720
31	7580	---	6360	6850	---	9390	---	32700	---	11000	3520	---
TOTAL	241230	205500	184260	197510	177130	260760	635340	991200	824800	360970	172290	165700
MEAN	7782	6850	5944	6371	6326	8412	21180	31970	27490	11640	5558	5523
MAX	8540	7500	6570	7280	7300	10100	31400	45200	40800	14200	9990	7720
MIN	6550	6250	5040	5210	5330	6640	8510	24100	15800	9290	3520	3700
ACFT	478500	407600	365500	391800	351300	517200	1260000	1966000	1636000	716000	341700	328700
CAL YR 1984	TOTAL	5586470	MEAN	15260	MAX	69500	MIN	3700	ACFT	11081000		
WTR YR 1985	TOTAL	4416690	MEAN	12100	MAX	43200	MIN	3520	ACFT	8761000		

e Estimated.

COLORADO RIVER MAIN STEM

41

09180500 COLORADO RIVER NEAR CISCO, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1941 to September 1952, October 1954 to September 1981, March 1982 to current year.
WATER TEMPERATURES: May 1949 to September 1959, October 1964 to September 1981, March 1982 to current year.
SUSPENDED-SEDIMENT DISCHARGE: May 1930 to September 1984 (discontinued).

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 4,820 microsiemens Dec. 13, 1957; minimum daily, 291 microsiemens May 31, 1953.

WATER TEMPERATURES: Maximum, 29.0°C July 29, 1966; minimum, 0.0°C on many days during winter period most years.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 69,000 mg/L Oct. 27, 1951; minimum daily mean, 4 mg/L Aug. 22, 1960.
SEDIMENT LOADS: Maximum daily, 2,790,000 tons Oct. 14, 1941; minimum daily, 14 tons Aug. 22, 1960.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,430 microsiemens Sept. 12; minimum daily, 320 microsiemens June 10, 11.
WATER TEMPERATURES: Maximum, 26.0°C August 24; minimum, 0.0°C several days during January and February.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
09...	1100	7320	1100	8.1	18.0	14.0	--	8.5	659	--	--
NOV											
19...	1030	6330	980	8.3	3.5	4.0	6.7	11.2	660	<1	<1
DEC											
18...	1045	5850	960	8.3	1.5	1.0	--	12.8	660	--	--
JAN											
22...	1230	7660	790	8.1	2.0	1.0	--	12.4	657	--	--
FEB											
20...	1130	6380	850	8.2	7.0	5.0	--	12.5	660	--	--
MAR											
19...	1100	9180	780	8.3	12.5	9.0	380	10.0	650	30	70
APR											
22...	1100	30900	520	8.3	7.5	7.5	770	10.1	651	<1	<1
MAY											
20...	1100	26600	465	8.3	19.0	13.0	150	9.2	656	--	--
JUN											
19...	1200	25800	390	8.1	27.0	17.0	--	8.6	659	--	--
JUL											
23...	1100	14200	770	8.3	30.5	20.5	570	7.2	657	<1	<1
AUG											
21...	1105	4340	1320	8.3	33.0	22.0	--	--	--	--	--
SEP											
03...	1445	4080	1420	8.5	31.5	23.0	50	7.7	650	80	260

COLORADO RIVER MAIN STEM

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	CAR- BONATE IT-FLD (MG/L AS CO3)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3)
OCT 09...	350	7.1	92	30	93	36	2.2	4.1	--	--	--
NOV 19...	300	6.0	74	28	98	41	2.5	4.1	190	--	157
DEC 18...	300	6.0	78	26	94	40	2.4	3.8	--	--	--
JAN 22...	250	5.1	65	22	73	38	2.1	3.1	--	--	--
FEB 20...	260	5.2	67	23	83	40	2.3	3.7	--	--	--
MAR 19...	250	5.1	64	23	67	36	1.9	3.4	200	--	166
APR 22...	180	3.6	47	15	41	33	1.4	2.9	160	--	132
MAY 20...	180	3.5	47	14	30	27	1.0	1.9	150	--	116
JUN 19...	140	2.8	39	10	23	26	0.9	1.6	--	--	--
JUL 23...	290	5.8	79	22	58	30	1.5	3.6	220	--	177
AUG 21...	390	7.8	100	34	120	40	2.7	5.3	--	--	--
SEP 03...	460	9.2	120	39	140	39	2.9	6.2	190	10	154

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT 09...	270	90	0.3	13	--	681	0.93	13500	0.58	--
NOV 19...	230	110	0.3	10	653	651	0.89	11200	0.5	0.06
DEC 18...	220	100	0.3	10	--	614	0.83	9690	0.43	--
JAN 22...	170	70	0.2	11	--	495	0.67	10200	0.27	--
FEB 20...	200	80	0.3	11	--	550	0.75	9470	0.5	--
MAR 19...	200	61	0.3	10	485	529	0.66	12000	0.39	0.09
APR 22...	110	21	0.2	9.6	326	324	0.44	21200	0.4	0.06
MAY 20...	89	22	0.2	11	284	288	0.39	20400	0.3	0.06
JUN 19...	69	20	0.2	9.2	--	221	0.3	15400	0.24	--
JUL 23...	200	48	0.5	11	506	530	0.69	19400	--	--
AUG 21...	320	130	0.4	8.5	--	805	1.1	9430	0.66	--
SEP 03...	380	160	0.4	9.6	972	970	1.3	10700	0.8	0.03

COLORADO RIVER MAIN STEM

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

SPECIFIC CONDUCTANCE (US/CM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1100	1020	980	910	760	850	810	520	390	600	830	1340
2	1120	1010	950	910	810	850	840	490	415	600	830	1350
3	1120	1020	960	950	820	850	870	480	430	620	870	1370
4	1110	980	980	950	820	840	940	460	425	640	890	1350
5	1090	980	990	920	900	840	940	440	420	630	910	1350
6	---	990	1000	960	930	830	840	400	400	630	920	1370
7	1050	960	1060	1020	910	830	780	410	390	660	940	1360
8	1000	980	1020	940	880	850	730	390	375	---	970	1340
9	1010	1000	1050	960	840	840	700	390	350	660	1030	1330
10	1000	990	1050	910	850	840	660	370	320	670	1050	1370
11	1040	990	970	850	850	860	640	380	320	710	1090	1380
12	1060	980	940	860	830	870	600	390	340	740	1090	1430
13	1040	960	920	830	830	980	570	430	365	790	1110	1370
14	1060	1000	970	880	780	930	530	460	370	780	1120	---
15	1100	1010	980	910	800	920	520	480	375	790	1110	---
16	1020	1010	960	860	830	870	510	500	---	780	1100	---
17	1000	990	990	940	820	830	490	360	---	800	1140	---
18	1010	1010	980	940	860	820	470	480	380	830	1180	---
19	1030	1010	1020	940	860	810	460	---	380	850	---	---
20	1030	1000	1020	860	850	810	460	460	385	910	---	---
21	940	1000	980	810	880	810	530	460	405	810	1170	---
22	1000	1000	1020	---	890	800	590	460	400	820	1210	---
23	1030	1000	---	760	880	780	620	470	400	880	1240	---
24	1010	1010	1210	770	870	800	600	450	420	760	1250	---
25	1020	1000	1000	780	840	770	590	440	435	750	1260	---
26	1000	990	1020	770	850	780	590	420	445	730	1280	---
27	1020	970	1020	770	850	800	640	400	450	760	1260	---
28	1020	970	1070	770	---	770	610	390	475	800	1290	---
29	1030	960	1040	780	---	740	580	---	520	---	1300	---
30	---	---	1110	780	---	730	---	370	---	870	1320	---
31	---	---	---	---	---	---	---	---	---	840	---	---
MEAN	1090	990	1070	870	850	830	640	435	400	750	1100	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	8.0	4.0	2.0	1.0	7.0	10.0	10.0	18.0	21.0	22.0	23.0
2	19.0	8.0	4.0	1.0	.0	7.0	10.0	10.0	18.0	21.0	22.0	23.0
3	19.0	8.0	3.0	1.0	.0	7.0	10.0	10.0	18.0	21.0	22.0	23.0
4	19.0	8.0	3.0	1.0	.0	7.0	10.0	10.0	18.0	21.0	22.0	23.0
5	16.0	8.0	3.0	1.0	.0	7.0	10.0	10.0	18.0	22.0	22.0	23.0
6	16.0	8.0	2.0	1.0	.0	7.0	11.0	10.0	18.0	22.0	22.0	22.0
7	16.0	8.0	2.0	1.0	.0	7.0	11.0	10.0	18.0	22.0	23.0	22.0
8	16.0	8.0	2.0	1.0	.0	8.0	11.0	12.0	18.0	---	22.0	22.0
9	16.0	8.0	2.0	1.0	.0	8.0	17.0	12.0	18.0	22.0	22.0	21.0
10	16.0	8.0	2.0	1.0	1.0	8.0	17.0	12.0	18.0	22.0	22.0	20.0
11	16.0	7.0	2.0	1.0	1.0	8.0	12.0	12.0	18.0	22.0	22.0	20.0
12	16.0	7.0	2.0	1.0	.0	8.0	12.0	12.0	18.0	22.0	22.0	18.0
13	16.0	7.0	2.0	1.0	2.0	8.0	12.0	12.0	17.0	24.0	23.0	18.0
14	16.0	7.0	2.0	1.0	2.0	10.0	12.0	12.0	18.0	24.0	23.0	---
15	15.0	7.0	2.0	1.0	2.0	10.0	12.0	12.0	20.0	24.0	23.0	---
16	15.0	7.0	2.0	1.0	3.0	10.0	12.0	15.0	---	24.0	23.0	---
17	10.0	7.0	2.0	.0	3.0	10.0	12.0	15.0	---	24.0	23.0	---
18	9.0	7.0	2.0	.0	5.0	10.0	12.0	---	20.0	24.0	23.0	---
19	9.0	7.0	2.0	.0	5.0	10.0	12.0	---	20.0	24.0	---	---
20	9.0	7.0	2.0	1.0	5.0	10.0	12.0	16.0	20.0	24.0	---	---
21	8.0	6.0	2.0	2.0	5.0	10.0	12.0	16.0	20.0	24.0	24.0	---
22	8.0	6.0	2.0	---	6.0	10.0	12.0	17.0	21.0	24.0	24.0	---
23	8.0	6.0	1.0	1.0	6.0	10.0	10.0	17.0	21.0	24.0	24.0	---
24	8.0	6.0	1.0	2.0	6.0	10.0	10.0	17.0	21.0	24.0	26.0	---
25	8.0	6.0	1.0	2.0	6.0	10.0	10.0	18.0	21.0	24.0	25.0	---
26	8.0	5.0	2.0	3.0	7.0	10.0	10.0	18.0	21.0	24.0	25.0	---
27	8.0	5.0	2.0	3.0	7.0	10.0	10.0	18.0	21.0	23.0	25.0	---
28	8.0	5.0	2.0	3.0	7.0	10.0	10.0	18.0	21.0	23.0	24.0	---
29	8.0	4.0	2.0	3.0	---	10.0	10.0	---	21.0	---	24.0	---
30	8.0	4.0	2.0	3.0	---	10.0	10.0	18.0	---	22.0	24.0	---
31	---	---	2.0	3.0	---	10.0	---	---	---	22.0	24.0	---
MEAN	13.0	7.0	2.0	1.5	3.0	9.0	11.5	13.5	19.0	23.0	23.0	---

COLORADO RIVER MAIN STEM

45

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 09...	1100	7320	14.0	--	193	3810
NOV 19...	1030	6330	4.0	74	20	342
MAR 19...	1100	9180	9.0	93	972	24100
APR 22...	1100	30900	7.5	93	2340	195000
MAY 20...	1100	26600	13.0	95	379	27200
JUL 23...	1100	14200	20.5	--	1560	59800
AUG 21...	1105	4340	22.0	--	82	961
SEP 03...	1445	4080	23.0	72	50	551

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

09183000 COURTHOUSE WASH NEAR MOAB, UT

LOCATION.--Lat 38°36'46", long 109°34'45", in NE1/4NE1/4SE14 sec.22, T.25 S., R.21 E., Grand County, Hydrologic Unit 14030005, on left bank 0.6 mi upstream from bridge on U.S. Highway 160, 0.8 mi upstream from mouth and 3.0 mi northwest of Moab.

DRAINAGE AREA.--162 mi².

PERIOD OF RECORD.--October 1949 to September 1955, April to September 1957, July 1966 to current year. Records for station at site 5 mi upstream published as "at Arches Highway Crossing near Moab" September 1958 to July 1966, not equivalent at all times due to possibility that some summer storm runoff would be from intermediate area.

GAGE.--Water-stage recorder. Altitude of gage is 3,980 ft from river-profile map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversions above station.

AVERAGE DISCHARGE.--25 years (1949-55, 1967-85), 1.86 ft³/s, 1,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,300 ft³/s Aug. 5, 1957, gage height, 9.38 ft, from rating curve extended above 500 ft³/s on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep. 7	1500	808	2.44	Sep. 11	1630	*1,170	*2.88

No flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.16	.28	.54	.44	.63	.34	.88	.40	.40	.04	e.11	e.07
2	e65	.33	.53	.31	.54	.40	.78	.34	.18	.03	.09	e.06
3	e9.3	.26	.55	.20	.50	.35	.86	.21	.15	.05	.09	e.06
4	e17	.24	.60	.14	.38	.65	.73	.19	.12	.03	.08	e.06
5	e3.6	.34	.55	.13	.58	.56	.48	.20	.08	.03	.08	e.07
6	e1.2	.41	.53	.15	e.67	.60	.55	.20	.09	.03	.09	e.07
7	e.87	.43	.66	.21	e.74	.30	.62	.20	.09	.03	.09	e49
8	e.53	.33	.64	.46	e.86	.29	.68	.19	.09	.03	.07	e3.5
9	e.38	.57	.89	1.3	e.92	.37	.63	.19	.10	.01	.08	e.80
10	e.36	.58	.97	1.7	e1.0	4.5	.50	.22	.08	.03	.08	e.10
11	e.42	.42	.85	1.3	e.84	1.6	.46	.20	.09	.04	.07	e76
12	e.75	.46	.67	e.85	e.96	.94	.36	.28	.08	.04	.09	e6.0
13	e.47	.51	5.5	e.71	e.98	1.5	.30	.55	.08	.04	.09	e.75
14	e.53	.45	.92	e.65	2.4	.72	.40	.26	.08	.04	.08	e.20
15	e.62	.40	.60	.52	1.4	.76	.46	.27	.08	.04	.08	e1.5
16	e.40	.49	.93	e.47	.71	.86	.40	.28	.09	.06	.07	e.60
17	e.23	.56	.83	e.58	.45	.75	.35	.27	.08	.28	.07	e.18
18	e2.5	.46	.57	e.67	.32	.80	5.1	.23	.07	.12	.07	e6.8
19	e.85	.45	.36	.79	.37	.64	1.6	1.4	.07	28	.07	e2.3
20	e.36	.42	.34	e.84	.49	.54	2.5	2.0	.06	.51	.08	e.62
21	e7.0	.47	.28	e.90	.52	.53	46	2.3	.06	4.9	e.08	e.22
22	e8.0	.55	.23	e.68	.40	.42	7.5	1.6	.07	2.2	e.08	e.19
23	e1.2	.50	.23	e.71	.36	.49	2.3	e.84	.06	e.42	e.08	e.14
24	e.75	.62	.34	e.59	.34	.53	.97	e.51	.09	e.20	e.08	e.11
25	e.48	2.3	.49	e.46	.45	.48	.55	e.43	.09	e.16	e.08	e.10
26	e.45	.95	.40	.48	.38	.39	.61	e.26	.08	e.14	e.07	e.11
27	e.40	.42	.91	.61	.35	.53	.46	e.16	.07	e.12	e.08	e.12
28	e.42	.62	2.8	.55	.31	2.2	.34	e.13	.07	e.13	e.08	e.12
29	e.42	.53	1.8	.53	---	8.6	.34	e.12	.08	e.13	e.08	e.13
30	e.36	.63	1.1	e.96	---	2.5	.34	e.10	.06	e.11	e.08	e.12
31	.34	---	.64	.83	---	1.2	---	e.19	---	e.12	e.07	---
TOTAL	125.35	15.58	27.25	19.72	18.85	35.34	78.05	14.72	2.89	38.11	2.48	150.10
MEAN	4.04	.52	.88	.64	.67	1.14	2.60	.47	.10	1.23	.08	5.00
MAX	65	2.3	5.5	1.7	2.4	8.6	46	2.3	.40	28	.11	76
MIN	.16	.24	.23	.13	.31	.29	.30	.10	.06	.01	.07	.06
ACFT	249	31	54	39	37	70	155	29	5.7	76	4.9	298

CAL YR 1984	TOTAL	837.90	MEAN	2.29	MAX	210	MIN	.02	ACFT	1660
WTR YR 1985	TOTAL	528.44	MEAN	1.45	MAX	76	MIN	.01	ACFT	1050

e Estimated.

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

47

09184000 MILL CREEK NEAR MOAB, UT

LOCATION.--Lat 38°33'44", long 109°30'48", in NW1/4NW1/4NE1/4 sec.8, T.26 S., R.22 E., Grand County, Hydrologic Unit 14030005, on right bank 0.5 mi downstream from North Fork, 1.5 mi southeast of Moab, and 3.5 mi upstream from mouth.

DRAINAGE AREA.--74.9 mi².

PERIOD OF RECORD.--October, November 1914 (fragmentary), February to November 1915, February 1916 to June 1917, April to July 1918 (fragmentary), April to July 1919, July 1949 to September 1971. October 1972 to current year.

GAGE.--Water-stage recorder and sharp-crested weir. Altitude of gage is 4,240 ft from topographic map. Prior to Apr. 28, 1918, nonrecording gage and Apr. 28, 1918 to Aug. 2, 1919, July 1949 to Mar. 15, 1962, water-stage recorder, 0.4 mi upstream at various datums.

REMARKS.--Records fair. Diversion into Sheley Tunnel, for storage in K. E. McDougald Reservoir began in March 1981. Diversion approximately 6.0 mi above station. Records do not include approximately 4,190 acre-ft diverted during the 1985 water year.

AVERAGE DISCHARGE.--30 years (1950-71, 1973-80), 14.3 ft³/s, 10,360 acre-ft/yr, prior to diversion to Sheley Tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded discharge, about 5,110 ft³/s Aug. 21, 1953, gage height, 10.74 ft from floodmark, site and datum then in use from rating curve extended above 700 ft³/s on basis of slope-area measurements at gage heights 8.24 ft, 8.62 ft, 9.81 ft, and 11.1 ft; maximum gage height, 11.6 ft Aug. 26, 1961, site and datum then in use; minimum recorded, 0.2 ft³/s Feb. 15, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 25	0830	*1,270	*5.60	Sep. 18	1900	316	3.30
May 20	unknown	539	3.96				

Minimum, 2.0 ft³/s Dec. 23.

 DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e15	14	e19	4.0	e4.2	4.4	e9.2	e12	e26	12	11	11
2	e14	13	e19	3.5	e3.1	4.4	e8.7	e13	e25	13	10	8.3
3	e14	12	e19	4.4	e4.5	4.4	e9.1	12	e24	13	11	8.1
4	44	12	e18	4.9	5.1	4.5	e8.5	23	e22	12	13	8.4
5	22	12	e17	5.7	3.3	4.3	e7.0	29	20	9.7	12	8.0
6	18	11	e16	6.6	3.7	4.1	e7.3	31	26	11	11	7.8
7	17	11	e16	5.2	4.0	3.9	e7.5	30	30	11	12	8.5
8	16	11	15	5.7	5.8	3.9	e8.0	29	39	10	12	8.4
9	e15	11	17	5.2	5.0	6.6	9.3	29	49	13	12	7.7
10	e15	11	15	4.9	4.3	9.6	12	e30	56	15	14	6.2
11	e16	12	15	4.6	3.9	7.6	12	e24	50	9.3	14	13
12	e15	13	15	4.2	5.1	6.7	13	e27	42	7.6	14	11
13	e15	14	17	4.5	4.7	6.1	13	e33	36	15	12	10
14	e16	14	14	7.3	4.1	5.6	12	e22	31	15	9.9	8.7
15	e16	14	15	6.9	4.2	5.3	11	e23	31	14	9.6	29
16	e15	14	15	6.7	4.2	4.8	11	e24	29	13	9.3	12
17	e16	14	14	7.3	4.3	4.6	10	e23	27	13	9.2	6.0
18	20	13	15	6.1	4.2	4.7	10	e20	24	16	9.1	62
19	17	13	10	6.8	4.2	e4.2	10	e30	20	20	8.8	22
20	17	12	10	6.4	5.5	e4.0	10	e52	17	29	9.7	9.5
21	19	12	9.0	6.2	5.6	e4.0	12	e47	15	20	12	8.6
22	17	13	6.3	5.9	5.3	e3.8	15	e40	14	18	12	8.2
23	16	13	4.2	5.0	5.2	e3.9	14	e32	12	17	12	7.6
24	15	12	3.7	5.1	5.0	e4.0	13	e27	12	12	12	6.9
25	16	e35	3.3	5.3	4.8	e3.9	13	e25	17	12	12	6.7
26	16	e23	3.7	5.1	4.5	e3.8	13	e24	17	12	11	6.8
27	15	e19	4.2	4.8	4.4	e4.2	12	e25	15	14	12	6.9
28	e16	e21	4.6	4.7	4.5	e12	e12	e23	13	14	12	6.9
29	e16	e19	4.0	5.0	---	e20	e11	e22	14	16	12	7.1
30	15	e20	3.3	4.4	---	e11	e10	e22	13	9.2	12	6.9
31	15	---	3.1	4.8	---	e9.9	---	e29	---	12	11	---
TOTAL	529	438	360.4	167.2	126.7	184.2	323.6	832	766	427.8	353.6	338.2
MEAN	17.1	14.6	11.6	5.39	4.52	5.94	10.8	26.8	25.5	13.8	11.4	11.3
MAX	44	35	19	7.3	5.8	20	15	52	56	29	14	62
MIN	14	11	3.1	3.5	3.1	3.8	7.0	12	12	7.6	8.8	6.0
ACFT	1050	869	715	332	251	365	642	1650	1520	849	701	671
CAL YR 1984	TOTAL	8932.1	MEAN	24.4	MAX	192	MIN	3.1	ACFT	17720		
WTR YR 1985	TOTAL	4846.7	MEAN	13.3	MAX	62	MIN	3.1	ACFT	9610		

e Estimated.

COLORADO RIVER MAIN STEM

09187550 INDIAN CREEK BELOW BOGUS POCKET, NEAR MONTICELLO, UT

LOCATION.--Lat 38°09'06", long 109°37'30", In SE1/4NW1/4, sec.28, T.30 S., R.21 E., San Juan County, Hydrologic Unit 14030005, on left bank, 4 mi east of Canyonlands National Park, the Needles Section.

DRAINAGE AREA.--262 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,980 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of 600 acres above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,600 ft³/s Aug. 20, 1984, gage height, 11.95 ft; minimum daily, 0.02 ft³/s July 12, 1984, may be less during period of no gage height record.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,160 ft³/s July 22, gage height, 7.56 ft; minimum daily, 0.02 ft³/s Aug. 25-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e4.1	17	e7.3	e2.2	e5.8	e8.5	e20	46	66	10	1.8	.09
2	e3.9	19	e5.1	e2.3	e6.8	e8.9	e25	49	60	9.1	1.5	.03
3	e4.2	16	e5.0	e2.3	e7.6	e8.7	e30	55	58	8.3	1.5	.15
4	e5.6	17	e5.1	e2.5	e7.0	e7.8	e35	72	55	7.4	1.2	.30
5	e5.2	14	e5.0	e2.6	e5.0	e7.4	e33	75	51	6.8	1.1	.15
6	e4.3	16	e5.0	e2.6	e5.2	e7.0	e37	68	44	6.2	1.1	.03
7	e3.8	17	e5.0	e2.8	e5.2	e7.0	e40	63	40	5.9	.68	.03
8	e4.1	17	e4.8	e2.6	e4.8	e8.0	e45	59	40	5.8	.32	.97
9	e4.7	17	e4.5	e2.7	e4.8	e9.0	e50	60	40	5.7	.28	.98
10	5.7	17	e4.5	e2.5	e5.0	e14	e45	59	41	5.6	.28	.35
11	4.8	16	e5.0	e2.4	e5.2	e20	e40	58	39	e5.0	.24	.51
12	6.1	16	e5.0	e2.3	e5.2	e25	e35	56	36	e4.9	.19	e3.0
13	5.4	17	e4.7	e2.6	e5.3	e30	e35	54	34	e5.5	.18	2.3
14	7.2	17	e2.7	e3.3	e5.2	e15	e35	43	31	e6.0	.21	1.6
15	6.4	18	e2.5	e3.9	e5.2	e15	e40	40	28	e5.2	.21	e2.0
16	5.5	16	e2.7	e4.2	e5.3	e13	e45	39	25	e5.5	e.18	e2.3
17	6.9	16	e2.5	e3.9	e5.6	e15	e50	39	23	e14	e.10	e1.3
18	6.9	e15	e2.7	e4.3	e6.0	e17	e55	38	21	e12	e.08	e3.3
19	7.3	e12	e2.7	e6.2	e6.3	e21	e55	44	20	e7.0	e.07	e6.3
20	7.4	e8.6	e2.5	e6.8	e6.4	e17	e47	45	19	e15	e.06	e7.0
21	10	e8.0	e2.3	e6.6	e6.4	e15	e43	59	18	e55	e.03	e4.0
22	12	e8.4	e2.3	e7.6	e7.0	e12	e40	58	17	56	e.03	e2.0
23	15	e8.4	e2.3	e6.4	e7.2	e12	e36	51	16	4.3	e.03	e1.5
24	16	e8.2	e2.4	e7.4	e7.2	e13	e33	51	16	2.3	e.03	e1.3
25	19	e8.0	e2.3	e6.6	e7.1	e15	e32	53	14	1.7	e.02	e1.0
26	19	e7.6	e2.4	e6.2	8.1	e10	e30	57	14	1.3	e.02	e.95
27	18	e7.6	e2.3	e7.0	8.0	10	e28	66	14	1.1	e.02	e.90
28	20	e7.6	e2.5	e6.4	8.7	71	e37	69	13	e.95	e.09	e4.3
29	16	e8.3	e2.4	e6.8	---	29	e42	70	12	e1.0	1.3	e3.0
30	18	e8.3	e2.4	e5.8	---	e20	43	76	11	e1.0	.54	e2.5
31	18	---	e2.3	e4.7	---	e15	---	73	---	e2.0	.13	---
TOTAL	290.5	399.0	110.2	136.5	172.6	496.3	1161	1745	916	277.55	13.52	54.14
MEAN	9.37	13.3	3.55	4.40	6.16	16.0	38.7	56.3	30.5	8.95	.44	1.80
MAX	20	19	7.3	7.6	8.7	71	55	76	66	56	1.8	7.0
MIN	3.8	7.6	2.3	2.2	4.8	7.0	20	38	11	.95	.02	.03
ACFT	576	791	219	271	342	984	2300	3460	1820	551	27	107
CAL YR 1984	TOTAL	5900.21	MEAN	16.1	MAX	390	MIN	.02	ACFT	11700		
WTR YR 1985	TOTAL	5772.31	MEAN	15.8	MAX	76	MIN	.02	ACFT	11450		

e Estimated.

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

49

09187550 INDIAN CREEK BELOW BOGUS POCKET, NEAR MONTICELLO, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1983 to current year.

SEDIMENT DATA: March 1983 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
OCT 09...	1110	4.7	890	8.6	22.0	15.5	280	5.7	58	34	86	39
NOV 30...	0915	8.7	960	8.7	4.5	1.0	340	6.8	63	44	110	41
FEB 25...	1140	7.0	920	8.7	11.5	9.5	300	5.9	54	39	91	40
MAR 26...	0915	10	840	8.7	11.0	5.0	270	5.5	50	36	85	40
APR 29...	1000	45	460	8.6	22.0	13.0	200	4.0	50	18	30	24
MAY 29...	0915	75	260	8.3	25.5	13.0	120	2.5	35	9.1	12	17
JUN 18...	0945	21	400	8.5	28.5	18.5	180	3.5	43	17	26	24
JUL 31...	0950	2.5	730	8.3	26.5	21.0	180	3.7	36	23	72	45
AUG 28...	1045	0.02	1250	8.3	25.0	22.5	330	6.5	55	46	150	49

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 09...	2.3	3.9	280	110	59	0.3	13	529	0.72	6.7	<0.1	0.03
NOV 30...	2.7	3.0	330	120	71	0.3	14	623	0.85	14.6	<0.1	0.01
FEB 25...	2.4	3.7	350	110	64	0.3	11	373	0.51	7.1	0.11	0.05
MAR 26...	2.3	3.4	240	100	61	0.3	12	490	0.67	13.2	<0.1	0.04
APR 29...	1.0	2.4	180	48	16	0.2	12	282	0.38	34.0	<0.1	0.01
MAY 29...	0.5	1.3	110	23	7.0	0.1	11	166	0.23	33.4	0.8	0.02
JUN 18...	0.9	1.7	160	41	12	0.0	12	248	0.34	14.1	<0.1	0.03
JUL 31...	2.4	8.2	200	99	62	0.3	8.9	427	0.58	2.8	0.61	0.03
AUG 28...	3.7	6.0	330	170	120	0.5	17	765	1.0	0.04	<0.1	0.05

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 09...	1110	160
NOV 30...	0915	160
FEB 25...	1140	140
MAR 26...	0915	120
APR 29...	1000	50
MAY 29...	0915	20
JUN 18...	0945	50
JUL 31...	0950	90

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

09187550 INDIAN CREEK BELOW BOGUS POCKET, NEAR MONTICELLO, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .125 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .250 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .500 MM
OCT 09...	1110	4.7	15.5	212	2.7	--	--	--	--	--	--	--
NOV 30...	0915	8.7	1.0	716	17	14	18	27	46	81	94	100
FEB 25...	1140	7.0	9.5	1430	27	--	--	--	--	--	--	--
MAR 26...	0915	10	5.0	2330	63	16	23	39	55	83	96	100
APR 29...	1000	45	13.0	43400	5270	--	--	--	--	--	--	--
MAY 29...	0915	75	13.0	1950	395	5	6	11	30	79	99	100
JUN 18...	0945	21	18.5	541	31	--	--	--	--	--	--	--
JUL 31...	0950	2.5	21.0	13100	88	59	86	94	98	99	100	--
AUG 28...	1045	0.02	22.5	188	0.01	--	--	--	--	--	--	--

GREEN RIVER BASIN

51

09217000 GREEN RIVER NEAR GREEN RIVER, WY
(National stream-quality accounting network station)

LOCATION.--Lat 41°30'59", long 109°26'54", in NW1/4 NE1/4 NE1/4 sec.26, T.18 N., R.107 W., Sweetwater County, Hydrologic Unit 14040106, on right bank 0.1 mi downstream from Bitter Creek, 1.0 mi southeast of town of Green River, and 4.0 mi upstream from high-water line of Flaming Gorge Reservoir.

DRAINAGE AREA.--About 14,000 mi², of which 4,260 mi², including 3,959 mi² in Great Divide Basin in southern Wyoming, is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1951 to current year.

REVISED RECORDS.--WSP 1713: 1957. WDR-76-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,060 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 19 to Apr. 1, Apr. 12-15, June 18-19, Aug. 2-14, and Sept. 19-30. Records good except those for winter period, which are poor. Some regulation by Fontenelle Reservoir since August 1963. (See station 09211150.) Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, and diversions for irrigation of about 223,000 acres upstream from station.

AVERAGE DISCHARGE.--34 years, 1,759 ft³/s, 1,274,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft³/s, Sept. 7, 1965, gage height, 8.53 ft, caused by emergency release from Fontenelle Reservoir; minimum daily discharge, 170 ft³/s, Nov. 16, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed, 22,200 ft³/s, June 19, 1918, at site 1.5 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,200 ft³/s, May 5, gage height, 6.90 ft; minimum daily, 380 ft³/s, Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1740	1570	700	470	400	640	1500	2320	3300	3190	1280	488
2	1750	1580	700	460	380	640	1630	4840	3150	2680	1450	532
3	1740	1620	650	450	420	640	1850	10600	2920	1890	1500	525
4	1740	1580	600	450	450	640	2400	11900	2770	1630	1500	506
5	1720	1570	550	450	500	640	2560	12000	2630	1600	1500	519
6	1720	1550	500	450	520	640	2840	11700	2500	1420	1500	597
7	1710	1520	450	500	540	640	2720	10600	2400	1210	1400	626
8	1710	1550	450	520	540	660	2660	8590	2300	1200	1330	619
9	1710	1550	450	520	540	660	3050	7030	2300	1180	1180	626
10	1570	1530	450	520	500	680	3110	6800	2280	1200	1060	626
11	1480	1530	450	520	500	700	3820	6400	4440	1360	1000	663
12	1410	1540	450	520	540	720	3960	6080	5240	1480	900	779
13	1360	1540	470	500	580	720	3960	6320	4940	1480	790	723
14	1350	1470	470	480	600	720	3960	5030	3710	1470	690	670
15	1350	1410	470	470	600	750	3960	3820	3060	1470	693	655
16	1360	1410	460	500	600	750	3360	3030	2840	1500	678	640
17	1370	1350	450	520	600	750	3210	2880	2560	1540	693	685
18	1390	1310	450	520	600	750	3190	2750	2500	1540	685	731
19	1390	1300	450	520	600	780	3150	2660	2800	1570	685	700
20	1370	1200	450	500	600	850	3110	2750	2860	1670	604	670
21	1390	1100	450	500	610	1000	3150	2810	2900	1750	532	670
22	1400	1000	450	500	620	1200	3170	2830	2680	1580	544	670
23	1390	850	460	500	620	1200	3170	2900	2540	1530	544	730
24	1370	800	470	480	630	1100	3130	2980	2280	1400	464	800
25	1400	800	470	460	640	1000	2940	3070	2160	1480	458	800
26	1420	750	460	460	640	1000	2430	3470	2110	1480	464	800
27	1430	700	450	460	640	1200	2020	4150	2420	1460	470	750
28	1430	700	450	460	640	1300	1960	4930	2960	1500	488	720
29	1430	700	470	460	---	1200	1740	5400	3210	1480	482	720
30	1430	700	470	460	---	1200	1670	5350	3210	1400	482	720
31	1540	---	470	430	---	1350	---	4600	---	1340	476	---
TOTAL	46570	37780	15140	15010	15650	26720	85380	170590	87970	48680	26522	19960
MEAN	1502	1259	488	484	559	862	2846	5503	2932	1570	856	665
MAX	1750	1620	700	520	640	1350	3960	12000	5240	3190	1500	800
MIN	1350	700	450	430	380	640	1500	2320	2110	1180	458	488
AC-FT	92370	74940	30030	29770	31040	53000	169400	338400	174500	96560	52610	39590

CAL YR 1984 TOTAL 803443 MEAN 2195 MAX 7720 MIN 450 AC-FT 1594000
WTR YR 1985 TOTAL 595972 MEAN 1633 MAX 12000 MIN 380 AC-FT 1182000

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Wyoming, 1985."

GREEN RIVER BASIN

09217900 BLACKS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 40°57'53", long 110°34'38", in NW1/4 SW1/4 sec.27, T.3 N., R.12 E., Summit County, UT, Hydrologic Unit 14140107, on left bank 1 mi downstream from East Fork, 2.5 mi south of Utah-Wyoming State line, and 17 mi south of Robertson.

DRAINAGE AREA.--130 mi², approximately.

PERIOD OF RECORD.--October 1937 to July 1939 (published as "at Blacks Fork Ranger Station"), July 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8,804.8 ft above National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Datums published from October 1968 to September 1978 are incorrect. October 1937 to July 1939, water-stage recorder at site 85 ft upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 16-21, 24-26, 28-30, Nov. 1, 2, 5, 10-12, Nov. 14 to Mar. 17, Mar. 20 to Apr. 7, and July 18 to Aug. 27. Records poor. No diversion upstream from station.

AVERAGE DISCHARGE.--20 years (water years 1938, 1967-85), 163 ft³/s, 118,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,480 ft³/s, June 19, 1983; maximum gage height, 4.91 ft, June 6, 1968; minimum daily discharge, 5.5 ft³/s, Jan. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 7	2400	*1,330	*2.89	No other peak greater than base discharge.			

Minimum daily discharge, 28 ft³/s, Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	60	37	36	30	33	36	332	483	280	140	43
2	119	56	36	36	28	33	36	467	448	280	120	45
3	117	50	36	36	29	31	35	640	424	289	110	46
4	117	52	35	36	29	30	36	771	443	296	100	46
5	105	52	35	37	30	32	35	758	509	293	95	42
6	99	56	36	37	30	35	34	635	614	294	90	41
7	91	56	37	37	30	36	34	582	892	285	85	43
8	90	57	39	37	31	34	34	676	1190	265	80	44
9	87	53	40	37	32	35	35	739	1090	254	76	41
10	83	49	45	37	31	36	56	737	983	251	72	39
11	82	47	43	35	31	37	52	639	737	291	68	54
12	87	43	42	33	32	38	61	526	645	281	66	71
13	85	41	41	33	33	41	76	410	576	277	64	56
14	101	39	38	34	35	40	92	348	610	240	62	51
15	99	40	37	34	37	39	116	358	610	225	60	50
16	85	40	37	34	36	39	140	354	630	219	58	45
17	88	40	37	34	34	39	167	369	620	238	56	41
18	80	40	36	35	32	40	200	437	609	220	54	46
19	80	41	35	35	32	44	212	453	544	190	52	95
20	81	42	36	35	33	44	187	428	474	160	50	70
21	84	43	36	36	33	42	185	399	452	140	48	59
22	69	43	36	36	33	38	168	410	416	120	46	56
23	77	43	37	36	33	36	151	466	401	110	45	50
24	80	41	37	35	34	35	145	574	395	100	45	49
25	74	40	37	34	35	35	142	735	436	130	45	47
26	68	38	37	34	31	36	139	781	378	110	45	47
27	65	36	38	34	32	37	147	905	335	94	50	47
28	60	36	39	35	32	38	159	881	296	90	61	45
29	62	38	38	35	---	38	201	801	281	100	51	40
30	62	39	37	35	---	37	261	714	278	130	50	43
31	59	---	37	32	---	35	---	688	---	170	46	---
TOTAL	2644	1351	1167	1090	898	1143	3372	18013	16799	6422	2090	1492
MEAN	85.3	45.0	37.6	35.2	32.1	36.9	112	581	560	207	67.4	49.7
MAX	119	60	45	37	37	44	261	905	1190	296	140	95
MIN	59	36	35	32	28	30	34	332	278	90	45	39
AC-FT	5240	2680	2310	2160	1780	2270	6690	35730	33320	12740	4150	2960
CAL YR 1984	TOTAL	76900	MEAN	210	MAX	1760	MIN	19	AC-FT	152500		
WTR YR 1985	TOTAL	56481	MEAN	155	MAX	1190	MIN	28	AC-FT	112000		

GREEN RIVER BASIN

53

09218500 BLACKS FORK NEAR MILLBURNE, WY

LOCATION.--Lat 41°01'54", long 110°34'43", in NW1/4 NE1/4 SW1/4 sec.11, T.12 N., R.117 W., Uinta County, Hydrologic Unit 14040107, on left bank 0.4 mi downstream from Meeks Cabin Dam, 2.7 mi north of Utah-Wyoming State line, and 17 mi southwest of Millburne.

DRAINAGE AREA.--152 mi².

PERIOD OF RECORD.--July 1939 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 929: 1940.

GAGE.--Water-stage recorder. Datum of gage is 8,512.27 ft above National Geodetic Vertical Datum of 1929 (Bureau of Reclamation bench mark). Prior to Oct. 1, 1971, at several sites about 2.0 mi downstream at various datums.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Meeks Cabin Reservoir, capacity, 32,470 acre-ft, since June 1971. No diversion upstream from station.

AVERAGE DISCHARGE.--46 years, 163 ft³/s, 118,100 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,530 ft³/s, June 7, 1957, from rating curve extended above 1,500 ft³/s; maximum gage height, 6.46 ft in gage well, 6.76 ft from floodmarks, June 12, 1965, site and datum then in use; minimum daily discharge, 1.0 ft³/s, Sept. 15, 16, 1983, due to regulation by Meeks Cabin Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,070 ft³/s, June 9, gage height, 4.21 ft; minimum daily, 13 ft³/s, Apr. 17-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	230	44	43	42	36	35	35	530	419	204	259
2	210	230	44	44	42	36	35	52	468	357	204	259
3	208	230	44	44	42	36	35	143	421	305	205	206
4	207	227	44	44	42	36	35	198	497	303	207	165
5	207	158	44	44	42	36	35	374	508	300	200	165
6	207	77	44	44	42	36	35	671	537	300	158	165
7	204	97	44	44	42	36	35	609	613	300	121	163
8	204	115	44	44	42	36	35	616	887	299	122	163
9	205	117	44	44	42	36	35	661	1020	375	122	163
10	204	118	44	44	42	36	35	699	946	440	122	147
11	204	118	44	44	42	36	35	625	771	440	122	129
12	204	73	44	44	42	36	35	541	647	438	122	128
13	204	34	44	44	42	36	35	437	611	438	113	128
14	200	34	44	44	40	36	35	386	596	438	106	128
15	200	34	44	44	37	36	35	358	582	440	106	128
16	200	39	44	44	36	36	23	348	576	409	106	128
17	200	44	44	44	36	36	13	367	574	385	106	109
18	200	44	44	44	36	36	13	412	569	381	106	93
19	200	44	44	44	36	36	13	454	551	381	106	93
20	200	44	44	44	36	36	13	458	516	381	128	91
21	200	44	44	44	36	36	13	452	476	377	147	91
22	143	44	44	44	36	36	13	444	456	375	146	90
23	96	44	44	44	36	36	13	471	453	302	147	89
24	96	44	44	44	36	36	13	534	454	227	147	81
25	166	44	44	44	36	36	13	611	435	230	147	75
26	234	44	44	44	36	35	13	663	420	230	147	75
27	234	44	44	44	36	35	13	754	419	230	202	75
28	234	44	43	44	36	35	13	788	420	230	259	75
29	234	44	43	44	---	35	23	753	418	230	259	75
30	234	44	43	44	---	35	34	678	420	218	259	75
31	230	---	43	44	---	35	---	605	---	204	259	---
TOTAL	6179	2547	1360	1363	1091	1110	761	15197	16791	10382	4905	3811
MEAN	199	84.9	43.9	44.0	39.0	35.8	25.4	490	560	335	158	127
MAX	234	230	44	44	42	36	35	788	1020	440	259	259
MIN	96	34	43	43	36	35	13	35	418	204	106	75
AC-FT	12260	5050	2700	2700	2160	2200	1510	30140	33300	20590	9730	7560
CAL YR 1984	TOTAL	87947	MEAN	240	MAX	1490	MIN	34	AC-FT	174400		
WTR YR 1985	TOTAL	65497	MEAN	179	MAX	1020	MIN	13	AC-FT	129900		

GREEN RIVER BASIN

09220000 EAST FORK OF SMITHS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°03'15", long 110°23'52", in NE1/4 NW1/4 NE1/4 sec.5, T.12 N., R.115 W., Uinta County, Hydrologic Unit 14040107, Wasatch National Forest, on left bank 60 ft downstream from bridge, 1.0 mi upstream from Gilbert Creek, 6.1 mi downstream from State Line Reservoir, and 9.0 mi south of Robertson.

DRAINAGE AREA.--53.0 mi².

PERIOD OF RECORD.--July 1939 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313. Prior to Oct. 1, 1978, published as East Fork of Smith Fork near Robertson.

REVISED RECORDS.--WSP 979: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,470 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to July 12, 1957, at datum 3.96 ft higher.

REMARKS.--Estimated daily discharges: Apr. 1-17, Aug. 11-15, and Sept. 22-30. Records poor. Flow completely regulated by State Line Reservoir, 6.1 mi upstream, total capacity, 14,000 acre-ft, dead storage is about 2,000 acre-ft, since May 1979.

COOPERATION.--Records provided by Office of Wyoming State Engineer and reviewed by Geological Survey.

AVERAGE DISCHARGE.--32 years (water years 1940-71), 47.1 ft³/s, 34,120 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft³/s, June 10, 1965, gage height, 6.75 ft; no flow part of each day Apr. 17-22, 24, 25, 1950; minimum gage height, 3.26 ft, present datum, Apr. 22, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 521 ft³/s, June 9, gage height, 5.71 ft; minimum daily during period of operation, 13 ft³/s, Apr. 21, 22, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							18	15	116	91	69	51
2							18	16	110	69	61	51
3							18	16	108	69	61	51
4							18	16	108	96	60	51
5							18	16	110	130	59	45
6							18	16	110	130	59	37
7							18	16	130	130	59	37
8							18	15	291	130	57	37
9							18	23	339	128	56	37
10							18	23	255	128	56	37
11							18	18	201	150	56	37
12							18	17	158	162	55	33
13							18	21	153	162	55	29
14							18	48	158	162	55	29
15							18	49	160	160	51	29
16							18	48	181	160	47	29
17							18	47	181	158	46	29
18							18	46	148	137	45	29
19							17	45	120	116	45	28
20							14	44	143	116	45	25
21							13	44	176	116	45	25
22							13	43	176	118	47	25
23							14	62	176	116	51	24
24							14	86	176	116	51	24
25							13	88	176	108	51	24
26							14	122	173	93	51	23
27							16	201	134	78	51	20
28							14	214	103	78	51	20
29							15	181	105	78	51	20
30							15	150	107	78	51	20
31							---	137	---	78	51	---
TOTAL							496	1883	4782	3641	1648	956
MEAN							16.5	60.7	159	117	53.2	31.9
MAX							18	214	339	162	69	51
MIN							13	15	103	69	45	20

GREEN RIVER BASIN

55

09229500 HENRYS FORK NEAR MANILA, UT

LOCATION.--Lat 41°00'45", long 109°40'20", in NW1/4 NW1/4 sec.23, T.12 N., R.109 W., Sweetwater County, WY, Hydrologic Unit 14040106, on right bank 0.8 mi north of Wyoming-Utah State line, 1.3 mi upstream from normal high-water line of Flaming Gorge Reservoir at elevation 6,045 ft, and 3.0 mi northeast of Manila, UT.

DRAINAGE AREA.--520 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to current year. Prior to October 1971, published as "at Linwood, UT."

REVISED RECORDS.--WSP 1443: 1955. WDR WY-76-2: 1970.

GAGE.--Water-stage recorder. Elevation of gage is 6,060 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 1, 1957, nonrecording gages or water-stage recorder at several sites about 2.0 mi downstream at various datums. Oct. 1, 1957, to Dec. 2, 1965, water-stage recorders at sites about 1.0 mi upstream at different datums.

REMARKS.--Estimated daily discharges: Dec. 4 to Mar. 27, and Apr. 2-4, 6-8. Records fair except those for estimated daily discharges, which are poor. Peoples Irrigation Canal diverts 5.9 mi upstream. Natural flow of stream affected by transbasin diversions, small storage reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--57 years, 85.6 ft³/s, 62,020 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge determined, 6,750 ft³/s, Aug. 3, 1936, gage height, 7.19 ft, site and datum then in use, from floodmarks, from rating curve extended above 570 ft³/s on basis of slope-area measurement of peak flow; higher discharge occurred July 15, 1959, gage height, 9.42 ft, site and datum then in use, discharge not determined; no flow for several days in 1933-35, 1939-40.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 488 ft³/s, July 20, gage height, 5.08 ft; maximum gage height, 5.66 ft, Dec. 6 (backwater from ice); minimum daily discharge, 9.0 ft³/s, July 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	122	122	94	64	90	78	125	94	42	94	12
2	147	113	80	94	54	82	100	110	100	37	48	12
3	148	145	88	94	56	82	130	139	82	26	46	12
4	141	122	110	92	56	85	170	218	71	31	42	12
5	137	107	120	90	56	88	118	235	57	17	40	15
6	129	120	124	88	56	88	130	239	54	14	37	15
7	116	129	120	88	58	88	140	220	59	12	35	11
8	114	117	122	88	62	86	170	207	108	14	32	14
9	121	111	120	88	62	86	218	231	193	12	25	11
10	119	92	116	88	64	86	198	261	195	9.9	18	10
11	128	111	110	88	66	87	151	269	154	10	20	9.6
12	135	114	110	88	68	90	127	177	118	13	27	13
13	145	118	110	88	72	96	117	139	85	21	24	22
14	141	106	110	86	74	100	112	102	79	16	21	21
15	141	82	108	84	78	110	118	71	65	13	19	19
16	111	100	108	82	84	120	121	70	58	9.0	15	17
17	128	116	108	80	90	130	115	77	60	32	15	13
18	116	95	108	78	96	132	118	93	59	101	17	11
19	108	91	108	78	95	120	121	107	49	103	25	16
20	114	99	108	76	93	110	116	105	38	123	23	37
21	135	123	108	76	90	100	100	86	25	98	22	36
22	121	117	100	76	90	94	88	75	21	119	13	37
23	121	104	96	74	94	88	79	66	13	154	13	38
24	121	125	94	74	94	100	72	76	13	121	14	41
25	140	105	94	74	94	130	74	97	48	78	13	40
26	144	89	94	74	96	120	80	130	144	65	13	37
27	153	71	90	72	94	90	86	159	80	56	12	44
28	122	96	90	70	94	60	152	180	59	50	11	45
29	133	123	96	70	---	66	205	158	49	108	11	46
30	145	110	94	68	---	62	143	129	43	164	11	46
31	143	---	94	66	---	70	---	105	---	151	11	---
TOTAL	4058	3273	3260	2526	2150	2936	3747	4456	2273	1819.9	767	712.6
MEAN	131	109	105	81.5	76.8	94.7	125	144	75.8	58.7	24.7	23.8
MAX	153	145	124	94	96	132	218	269	195	164	94	46
MIN	108	71	80	66	54	60	72	66	13	9.0	11	9.6
AC-FT	8050	6490	6470	5010	4260	5820	7430	8840	4510	3610	1520	1410

CAL YR 1984 TOTAL 66213 MEAN 181 MAX 1330 MIN 58 AC-FT 131300
WTR YR 1985 TOTAL 31978.5 MEAN 87.6 MAX 269 MIN 9.0 AC-FT 63450

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Wyoming, 1985."

09234400 FLAMING GORGE RESERVOIR AT FLAMING GORGE DAM, UT

LOCATION.--Lat 40°54'23", long 109°25'15", in NW1/4NE1/4 sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, at Flaming Gorge Dam on Green River, 1.8 mi southwest of Dutch John, and 4.9 mi northeast of Greendale.

DRAINAGE AREA.--19,350 mi², of which about 4,260 mi², including 3,959 mi² in Great Divide Basin in southern Wyoming, is probably noncontributing.

PERIOD OF RECORD.--November 1962 to current year.

REVISED RECORDS.--WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to Jan. 1, 1964, on left bank 600 ft upstream from face of dam.

REMARKS.--Records excellent. Reservoir is formed by concrete arch-type dam; storage began Nov. 1, 1962; mass concrete of dam completed Nov. 15, 1962. Total capacity, 3,789,000 acre-ft, consisting of the following: Dead storage, 39,700 acre-ft below elevation 5,740 ft; inactive usable storage, 233,500 acre-ft between elevations 5,740 ft and 5,871 ft; active usable storage, 3,516,000 acre-ft between elevations 5,871 ft and 6,040 ft (top of conservation pool). Reservoir is used for flood control, storage replacement to meet downstream requirements under the Colorado River Compact of 1922, and power development. Figures given herein represent usable contents. Transbasin diversions and diversions for irrigation above station.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 3,911,000 acre-ft July 13, 1983, elevation, 6,043.80 ft; minimum, 582,900 acre-ft Apr. 26, 1965, elevation, 5908.90 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 3,685,000 acre-ft Oct. 2, 3, elevation, 6,038.47 ft; minimum observed, 2,976,000 acre-ft Mar. 17-19, elevation, 6,019.99 ft.

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

6,015	2,804,000	6,030	3,346,000
6,020	2,977,000	6,035	3,543,000
6,025	3,157,000	6,040	3,749,000

RESERVOIR STORAGE, IN THOUSANDS OF AC-FT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3683	3629	3544	3373	3184	3030	2989	3111	3360	3456	3419	3355
2	3685	3626	3539	3366	3178	3027	2992	3125	3359	3456	3420	3354
3	3685	3622	3533	3361	3172	3025	2994	3139	3361	3455	3419	3350
4	3684	3620	3528	3354	3166	3020	2998	3154	3365	3454	3420	3348
5	3683	3619	3522	3347	3159	3016	3001	3173	3368	3452	3421	3346
6	3683	3618	3516	3343	3153	3012	3006	3194	3370	3449	3420	3342
7	3682	3619	3510	3336	3146	3008	3009	3213	3371	3445	3418	3340
8	3682	3618	3506	3330	3141	3005	3012	3227	3375	3441	3416	3339
9	3680	3615	3500	3327	3135	3001	3018	3240	3377	3440	3415	3336
10	3680	3613	3495	3321	3128	2998	3022	3250	3380	3438	3413	3332
11	3678	3611	3489	3314	3120	2994	3030	3263	3385	3434	3412	3330
12	3676	3608	3488	3309	3114	2990	3036	3275	3394	3434	3409	3329
13	3674	3607	3487	3301	3109	2988	3044	3284	3401	3432	3407	3326
14	3670	3606	3480	3294	3101	2985	3050	3293	3407	3430	3405	3324
15	3668	3603	3474	3290	3098	2982	3056	3296	3412	3429	3401	3321
16	3666	3599	3467	3283	3096	2979	3061	3298	3415	3428	3398	3318
17	3665	3598	3462	3277	3096	2976	3068	3307	3418	3428	3396	3315
18	3662	3596	3456	3270	3095	2976	3071	3308	3420	3427	3395	3313
19	3661	3593	3451	3263	3090	2976	3078	3307	3424	3428	3392	3311
20	3659	3590	3444	3258	3085	2977	3082	3310	3426	3428	3390	3309
21	3655	3586	3437	3254	3078	2977	3086	3312	3429	3430	3388	3308
22	3653	3584	3430	3247	3074	2978	3090	3314	3431	3430	3335	3305
23	3652	3582	3424	3242	3067	2979	3094	3314	3432	3432	3381	3303
24	3650	3579	3418	3235	3061	2979	3098	3319	3436	3429	3378	3301
25	3648	3573	3414	3229	3054	2982	3102	3322	3439	3428	3376	3300
26	3648	3568	3407	3223	3049	2984	3105	3327	3441	3426	3373	3298
27	3643	3563	3402	3216	3042	2987	3105	3331	3442	3425	3371	3297
28	3639	3556	3396	3208	3036	2988	3107	3338	3444	3425	3368	3296
29	3636	3554	3391	3203	---	2989	3108	3345	3448	3424	3365	3296
30	3634	3549	3384	3197	---	2987	3109	3351	3453	3422	3361	3295
31	3631	---	3379	3190	---	2987	---	3356	---	3420	3359	---
MAX	3685	3629	3544	3373	3184	3030	3109	3356	3453	3456	3421	3355
MIN	3631	3549	3379	3190	3036	2976	2989	3111	3359	3420	3335	3295
(#)	6037.15	6035.15	6030.86	6025.90	6021.68	6020.30	6023.68	6030.27	6032.74	6031.89	6030.34	6028.67
(*)	-54	-82	-170	-189	-154	-49	+122	+247	+97	-33	-61	-64

CAL YR 1984 (*) -72

WTR YR 1985 (*) -390

(#) Elevation, in feet, at end of month.

(*) Change in contents, in thousands of acre-feet.

GREEN RIVER BASIN

57

09234500 GREEN RIVER NEAR GREENDALE, UT

LOCATION.--Lat 40°54'30", long 109°25'20", in NW1/4NW1/4SE1/4 sec.15. T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, Ashley National Forest on right bank 0.5 mi downstream from Flaming Gorge Dam, 2 mi south of Dutch John, 4 mi northeast of Greendale, and 407 mi from mouth.

DRAINAGE AREA.--19,350 mi², approximately, including about 4,260 mi² which is probably noncontributing. This noncontributing area includes 3,959 mi² in Great Divide Basin in southern Wyoming.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,594.48 ft NGVD of 1929. Prior to Sept. 2, 1959, water-stage recorder at site 2.2 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Flaming Gorge Reservoir 0.5 mi upstream, beginning Nov. 1, 1962 (see station 09234400).

AVERAGE DISCHARGE.--35 years, 2,145 ft³/s, 1,554,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,600 ft³/s June 12, 1957, gage height, 10.60 ft, site and datum then in use; maximum gage height, 12.58 ft July 8, 1983; minimum, 2.3 ft³/s Mar. 20, 22, 27, 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,390 ft³/s Feb. 12, gage height, 6.32 ft; minimum daily, 536 ft³/s Aug. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2270	3310	3770	4150	4240	3480	2720	2800	2680	1840	2140	2090
2	1880	3720	3250	3960	4250	2880	2820	2800	3800	2650	1400	1180
3	2420	3530	3840	4060	4170	3000	2820	2800	2290	2520	536	1870
4	2100	3090	3300	4020	4110	3270	2820	2790	2300	2710	536	1730
5	2500	3700	3750	4190	4260	3580	2820	2790	2030	2230	1920	1450
6	2290	2400	3780	4160	4250	2590	2820	2780	1400	2960	1950	1830
7	2470	1330	3570	4120	4170	2770	2820	2790	1750	3680	1770	1210
8	2320	2670	3620	4110	4290	3150	2820	2640	1330	3250	1880	1370
9	2440	2990	3610	3350	4260	2880	2830	2770	2080	2410	1880	1450
10	2880	3010	3860	3760	4270	3060	2820	2760	1630	2600	1590	1900
11	2600	3130	3060	4190	4280	2950	2560	2750	1770	2720	998	1900
12	2850	2660	2690	4210	4240	3340	2820	2740	1630	2340	1720	1170
13	2950	3170	2590	4210	4270	2780	2820	2730	1060	3060	1950	1790
14	2910	3030	3310	4210	4270	2930	2820	2750	973	2760	1640	1230
15	2870	3060	3690	4200	3690	2790	2820	2750	912	2250	1970	1660
16	2130	2930	3550	4210	1150	3150	2820	2640	1230	2000	1740	1720
17	2350	3160	3760	4210	1160	2890	2820	2230	1140	1410	1390	2070
18	3420	2660	3310	4190	1160	2260	2820	2650	1180	1470	1140	1690
19	2390	3440	3820	4200	3230	2270	2820	2670	1560	1880	1710	1870
20	2900	2300	3810	4250	4280	2440	2820	2030	1510	1550	1450	1540
21	3320	2880	3770	4190	4280	2110	2810	2430	1340	1620	2000	1460
22	3010	2580	4160	4230	4180	2660	2810	2740	1400	2410	1560	1600
23	2550	3250	3770	4230	4240	2190	2810	2420	2110	1750	2030	1390
24	2690	2150	3830	4230	4260	2320	2810	2640	1610	2220	1670	1540
25	2740	3410	4040	4210	4280	2290	2810	2380	1250	2380	1410	1140
26	3250	2850	3830	4240	4290	2420	2810	2040	1550	2040	1540	1060
27	3210	3260	3560	4250	4220	2240	2800	2150	1800	2010	2000	1760
28	3430	3380	3270	4240	4300	2030	2790	2390	2080	2230	1470	1040
29	3310	3040	3770	4240	---	2490	2560	2370	1200	2500	1680	1010
30	3130	3180	3870	4240	---	2720	2790	2450	1290	2440	1980	858
31	3920	---	3780	4250	---	2810	---	2900	---	2540	1410	---
TOTAL	85500	89270	111590	128510	108050	84740	83850	80570	49885	72430	50060	45578
MEAN	2758	2976	3600	4145	3859	2734	2795	2599	1663	2336	1615	1519
MAX	3920	3720	4160	4250	4300	3580	2830	2900	3800	3680	2140	2090
MIN	1880	1330	2590	3350	1150	2030	2560	2030	912	1410	536	858
ACFT	169600	177100	221300	254900	214300	168100	166300	159800	98950	143700	99290	90400
CAL YR 1984	TOTAL	1272710	MEAN	3477	MAX	8430	MIN	1280	ACFT	2524000		
WTR YR 1985	TOTAL	990033	MEAN	2712	MAX	4300	MIN	536	ACFT	1964000		

GREEN RIVER BASIN

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1956 to current year.

SPECIFIC CONDUCTANCE: October 1956 to September 1959, October 1963 to current year, once-daily.

WATER TEMPERATURES: October 1956 to September 1959, October 1963 to current year, once-daily.

SEDIMENT DATA: October 1956 to September 1959, once-daily, October 1976 to current year, periodically.

REMARKS.--Storage in Flaming Gorge Reservoir began on Nov. 1, 1962. Samples for daily records are taken inside Penstock. Extremes are given for two separate periods--water years 1957-62, and water years 1964 to current year. Extremes for the 1963 water year (October 1962 to September 1963) are not included. Unpublished daily records of specific conductance obtained before 1965 were included in the determination of extremes for period of daily record and are available in files of district office. Daily records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF DAILY RECORD (water years 1957-62, 1964 to current year).--

SPECIFIC CONDUCTANCE (water years 1957-58, 1960-62): Maximum daily, 1,340 microsiemens Aug. 30, 1961; minimum daily, 325 microsiemens June 2, 1961.

WATER TEMPERATURES (water years 1957-59): Maximum, 24.0°C July 24, 25, 1959; minimum, 0.0°C on many days during winter period each year.

SPECIFIC CONDUCTANCE (water years 1964 to current year): Maximum daily, 1,060 microsiemens Nov. 9, 1971; minimum daily, 560 microsiemens Mar. 1, 1977.

WATER TEMPERATURES: Maximum, 14.0°C Nov. 11, 14, 1963, July 17, Aug. 21, 28, 1978, Sept. 24, 1980; minimum 2.0°C on several days in 1964.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 790 microsiemens several days during July and August; minimum observed, 630 microsiemens June 17.

WATER TEMPERATURES: Maximum observed, 15.0°C Sept. 4; minimum observed, 3.5°C Jan. 23.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 31...	1245	4170	660	8.1	7.0	9.0	--	9.0	696	--	--
DEC 06...	1400	4070	670	8.2	-3.5	6.0	--	8.6	634	--	--
JAN 23...	1350	4420	700	8.4	-7.5	3.5	0.4	9.0	626	<1	<1
FEB 15...	1400	4270	680	8.4	6.5	4.0	--	9.9	622	--	--
MAR 25...	1315	2370	710	8.3	17.0	4.0	0.6	9.3	617	--	K2
APR 16...	1330	2860	760	8.2	22.0	4.0	--	9.6	623	--	--
MAY 16...	1045	2520	660	8.3	17.5	6.5	1.9	9.5	628	<1	K1300
31...	1045	2700	650	8.3	12.0	8.0	1.8	8.3	623	<1	<1
JUN 17...	1325	1910	630	8.5	29.0	12.5	--	9.0	632	--	--
JUL 08...	1430	3390	670	8.2	27.5	13.0	1.8	7.8	633	K2	K2
AUG 14...	1345	2460	680	8.4	30.5	14.5	0.7	7.7	621	<1	2

K Results based on colony count outside acceptable range (non-ideal colony count).

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	CAR- BONATE IT-FLD (MG/L AS CO3)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3)
OCT 31...	240	4.8	58	23	53	32	1.5	2.2	--	--	--
DEC 06...	250	5.0	62	23	50	30	1.4	2.5	--	--	--
JAN 23...	260	5.3	66	24	53	30	1.5	2.4	140	8.0	128
FEB 15...	270	5.4	68	24	53	30	1.5	2.4	--	--	--
MAR 25...	280	5.5	68	26	54	30	1.5	0.7	200	--	163
APR 16...	260	5.1	63	24	51	30	1.4	2.5	--	--	--
MAY 16...	250	5.1	63	23	51	30	1.4	2.5	170	6.0	148
31...	250	5.0	61	23	50	30	1.4	2.5	160	9.0	149
JUN 17...	240	4.8	60	22	48	30	1.4	2.3	--	--	--
JUL 08...	250	5.0	63	23	50	30	1.4	2.4	180	--	148
AUG 14...	240	4.8	59	23	52	32	1.5	2.4	160	6.1	143

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT 31...	180	16	0.2	4.6	412	337	0.46	3800	0.17	0.02
DEC 06...	180	17	0.2	5.3	426	340	0.46	3740	0.24	<0.01
JAN 23...	180	17	0.3	5.9	453	349	0.47	4160	0.33	0.02
FEB 15...	190	16	0.2	6.2	442	360	0.49	4150	0.28	0.03
MAR 25...	200	17	0.2	6.7	474	471	0.64	3020	0.33	0.04
APR 16...	190	16	0.2	6.0	463	353	0.48	2720	0.28	0.03
MAY 16...	170	16	0.2	6.3	464	422	0.57	2870	0.25	0.07
31...	170	15	0.2	6.0	427	329	0.45	2400	0.25	0.04
JUN 17...	170	14	0.2	4.5	401	321	0.44	1660	0.15	0.04
JUL 08...	170	13	0.2	4.1	430	415	0.56	3800	0.16	0.04
AUG 14...	170	18	0.2	3.8	426	416	0.57	2760	0.14	0.03

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04)
OCT 31...	0.03	--	--	--	--	--	--	--	<0.01	0.03
DEC 06...	0.01	--	--	--	--	--	--	--	<0.01	0.03
JAN 23...	0.03	0.5	0.5	0.5	2.2	0.01	--	0.01	<0.01	0.03
FEB 15...	0.04	--	--	--	--	--	--	--	<0.01	0.03
MAR 25...	0.05	0.7	0.7	0.7	3.1	0.01	--	<0.01	<0.01	0.03
APR 16...	0.04	--	--	--	--	--	--	--	0.01	0.03
MAY 16...	0.09	0.7	0.7	0.7	3.1	0.02	0.06	<0.01	<0.01	0.03
31...	0.05	0.4	0.4	0.4	1.8	0.01	0.03	<0.01	0.01	0.03
JUN 17...	0.05	--	--	--	--	--	--	--	<0.01	0.03
JUL 08...	0.05	0.4	0.4	0.4	1.8	0.01	0.03	<0.01	<0.01	0.03
AUG 14...	0.04	0.5	0.5	0.5	2.2	0.32	0.98	0.12	0.05	0.15

GREEN RIVER BASIN

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
MAR 25...	1315	10	1	79.00	<0.50	<1	<1	<3.00	4	9.00	5
MAY 16...	1045	20	1	79.00	<0.50	<1	<1	<3.00	<1	4.00	1
31...	1045	40	2	80.00	<0.50	<1	<1	<3.00	8	20	6
JUL 08...	1430	20	2	80.00	<0.50	<1	<1	<3.00	2	10	<1

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAR 25...	20	<1	0.1	<10	13	<1	<1	640	<6.0	20
MAY 16...	20	<1	<0.1	<10	3	1	<1	580	<6.0	30
31...	20	3	<0.1	<10	1	<1	<1	570	<6.0	60
JUL 08...	20	1	<0.1	<10	<1	4	<1	560	<6.0	30

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 31...	1245	80
DEC 06...	1400	90
FEB 15...	1400	80
APR 16...	1330	90
JUN 17...	1325	70

SPECIFIC CONDUCTANCE (US/CM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	710	720	---	---	730	710	700	710	---	790	700	---
2	710	720	---	740	---	---	700	710	---	660	790	---
3	710	---	730	740	---	---	700	710	690	660	---	700
4	710	---	730	750	720	710	700	---	680	---	---	690
5	710	720	730	---	720	710	700	---	680	670	730	690
6	---	720	730	---	730	710	---	670	680	---	720	700
7	---	730	730	750	730	710	---	670	680	---	780	---
8	---	720	---	740	730	720	690	660	---	670	700	---
9	710	720	---	740	---	---	690	670	---	670	790	710
10	710	---	730	740	---	---	690	670	670	670	---	710
11	710	---	730	740	730	740	690	---	670	660	---	710
12	710	---	730	---	730	740	690	---	660	680	780	710
13	---	720	730	---	730	740	---	680	670	---	760	710
14	---	720	730	740	740	750	---	680	---	---	700	---
15	680	730	---	750	740	750	710	710	---	680	720	---
16	680	730	---	750	---	---	710	690	---	680	---	710
17	680	---	720	760	---	---	710	690	630	790	---	710
18	680	---	720	760	---	720	710	---	650	790	---	720
19	680	720	720	---	740	720	710	---	660	790	780	720
20	---	720	730	---	740	720	---	710	650	---	770	710
21	---	730	730	730	750	720	---	710	660	---	790	---
22	730	---	---	730	750	720	710	680	---	700	780	---
23	740	---	---	730	---	---	700	690	---	710	790	720
24	730	---	710	740	---	---	700	690	650	690	---	720
25	740	---	---	730	750	730	700	---	660	690	---	720
26	730	720	700	---	750	730	700	---	660	700	700	720
27	---	720	710	---	750	740	---	---	670	---	710	720
28	---	730	710	720	750	740	---	680	680	---	710	---
29	710	730	---	720	---	710	700	680	---	690	700	---
30	720	730	---	730	---	---	700	690	---	750	710	720
31	720	---	---	730	---	---	---	690	---	690	---	---

GREEN RIVER BASIN

61

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.5	10.0	---	---	4.5	4.5	4.5	5.0	---	11.5	13.5	---
2	13.0	9.5	---	5.0	---	---	4.5	5.0	---	12.0	---	---
3	13.0	---	7.5	4.5	---	---	4.5	5.0	9.0	12.5	---	14.5
4	13.0	---	7.5	5.0	4.5	4.5	4.5	---	9.0	---	---	15.0
5	13.0	9.5	7.0	---	4.5	4.5	4.5	---	9.0	13.0	9.5	14.5
6	---	9.5	7.0	---	4.5	4.5	---	7.0	9.0	---	10.0	14.5
7	---	9.5	6.0	5.0	4.5	4.5	---	6.5	10.0	---	---	---
8	---	9.5	---	5.0	4.5	4.5	4.5	6.5	---	13.5	---	---
9	13.0	9.0	---	5.0	---	---	4.5	6.5	---	13.5	---	13.0
10	13.0	---	6.0	5.0	---	---	4.5	6.5	11.5	13.5	---	13.0
11	13.0	---	6.0	5.0	4.5	4.5	4.5	---	11.5	13.5	---	13.0
12	13.0	---	6.0	---	4.5	4.5	4.5	---	11.5	13.5	---	13.0
13	---	9.0	6.0	---	4.5	4.5	---	7.0	10.5	---	---	13.0
14	---	9.0	6.0	4.5	4.5	4.5	---	7.5	10.5	---	14.5	---
15	12.0	8.5	---	4.5	4.5	4.5	4.5	6.0	---	13.5	11.5	---
16	11.5	8.5	---	4.5	---	---	4.5	7.0	---	13.5	---	13.5
17	12.0	---	5.5	4.5	---	---	4.5	7.0	12.5	---	---	13.0
18	12.0	---	5.5	4.5	---	4.5	4.5	---	13.5	---	---	13.0
19	11.5	8.5	5.5	---	4.5	4.5	5.0	---	12.0	---	---	12.5
20	---	8.5	5.5	---	4.5	4.5	---	8.0	13.5	---	---	12.5
21	---	8.0	5.5	4.5	4.5	4.5	---	8.0	12.0	---	---	---
22	11.0	---	---	4.5	4.5	4.5	5.0	8.0	---	13.5	---	---
23	---	---	---	3.5	---	---	5.0	8.0	---	13.0	---	12.5
24	11.0	---	5.0	4.5	---	---	5.0	8.0	14.0	14.0	---	13.5
25	---	---	---	4.5	4.5	4.5	5.0	---	13.5	14.0	---	13.0
26	10.0	8.0	5.5	---	4.5	4.5	5.0	---	14.0	13.5	---	13.0
27	---	7.5	5.0	---	4.5	4.5	---	---	13.0	---	14.5	13.0
28	---	7.5	5.0	4.5	4.5	4.5	---	9.0	13.0	---	14.0	---
29	10.0	7.5	---	4.5	---	4.5	5.0	9.0	---	12.0	14.5	---
30	10.0	7.5	---	4.5	---	---	5.0	9.0	---	13.5	14.5	13.0
31	10.0	---	---	4.5	---	---	---	9.0	---	13.5	---	---

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
MAY						
31...	1045	2700	8.0	43	153	1120
JUN						
17...	1325	1910	12.5	--	384	1980
JUL						
08...	1430	3390	13.0	--	5	46
AUG						
14...	1345	2460	14.5	--	6	40

GREEN RIVER BASIN

09235600 POT CREEK ABOVE DIVERSIONS, NEAR VERNAL, UT

LOCATION.--Lat 40°46'05", long 109°19'06", in NE1/4 sec.3, T.1 S., R.23 E., Uintah County, Hydrologic Unit 14040106, on left bank 0.3 mi upstream from Matt Warner Reservoir, and 27 mi northeast of Vernal.

DRAINAGE AREA.--24.6 mi².

PERIOD OF RECORD.--September 1957 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,550 ft from topographic map. Prior to Aug. 26, 1965, at site 0.2 mi downstream at different datum. Prior to July 28, 1978 datum of gage 1.20 ft higher at same site.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion above station.

AVERAGE DISCHARGE.--28 years, 4.05 ft³/s, 2,930 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 286 ft³/s May 10, 1975, gage height, 3.55 ft; maximum gage height recorded, 5.29 ft Apr. 3, 1985 (backwater from ice); no flow at times, most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 3	1700	(a)	*5.29	Peaks above base not determined.			
Apr. 19		38	Maximum daily				

a backwater from ice.

Minimum daily discharge, 0.05 ft³/s Jan. 15, Feb. 2-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	5.0	e1.4	e.12	e.06	e.15	e1.0	21	5.5	.86	.73	.14
2	3.0	4.6	e1.3	e.10	e.05	e.19	e1.5	22	5.6	.75	.59	.25
3	2.3	2.9	e1.1	e.08	e.05	e.14	e2.5	25	4.5	.71	.51	.38
4	2.1	3.8	e.92	e.07	e.05	e.14	e2.3	27	3.8	.65	.53	.36
5	1.8	3.6	e.80	e.07	e.06	e.15	e2.1	27	3.7	.56	.50	.30
6	1.4	2.1	e.76	e.06	e.07	e.18	e2.0	25	3.6	.54	.45	.21
7	1.2	2.2	e.74	e.06	e.08	e.20	e1.9	24	3.1	.53	.42	.21
8	1.2	2.7	e.72	e.06	e.08	e.20	e2.1	21	2.5	.53	.40	.30
9	1.1	4.5	e.70	e.09	e.09	e.20	e2.5	20	2.3	.55	.41	.47
10	1.1	4.0	e.70	e.09	e.10	e.20	e3.3	24	2.0	.47	.40	.22
11	1.2	3.0	e.74	e.09	e.10	e.23	e4.5	31	1.6	.45	.41	.52
12	1.6	2.5	e.80	e.08	e.10	e.21	e6.0	30	1.6	1.2	.44	2.0
13	2.1	2.7	e.78	e.06	e.11	e.20	e8.0	22	1.5	2.4	.42	.87
14	2.5	2.5	e.72	e.06	e.11	e.21	e10	17	1.3	1.1	.40	.58
15	2.2	4.0	e.62	e.05	e.10	e.23	e13	14	1.2	.74	.40	.52
16	2.4	2.3	e.64	e.05	e.10	e.23	e20	13	1.3	.59	.34	.50
17	2.4	1.8	e.60	e.07	e.12	e.26	e28	13	1.3	.62	.32	.41
18	2.5	2.5	e.52	e.07	e.12	e.28	e35	15	1.1	1.1	.78	.59
19	2.7	1.8	e.46	e.10	e.13	e.33	38	14	.98	.93	.95	2.6
20	2.6	1.7	e.46	e.11	e.15	e.35	35	12	.96	1.8	.46	1.4
21	2.2	1.3	e.42	e.12	e.17	e.27	32	11	1.0	2.0	.32	.84
22	2.2	1.4	e.36	e.11	e.20	e.25	30	9.8	.87	2.5	.25	.79
23	2.3	1.5	e.31	e.10	e.18	e.40	24	8.6	.80	1.7	.45	1.2
24	2.6	1.5	e.27	e.09	e.15	e.62	22	8.1	.77	1.4	.35	.54
25	2.3	1.4	e.23	e.08	e.16	e1.0	20	9.0	5.3	.91	.18	.52
26	2.4	1.3	e.19	e.07	e.14	e.80	18	11	5.6	.70	.21	.46
27	2.2	e1.4	e.15	e.07	e.13	e.66	20	8.2	2.4	.65	.19	.43
28	3.2	e1.5	e.14	e.08	e.12	e.60	23	6.3	1.5	1.1	.22	.53
29	2.2	e1.5	e.14	e.08	---	e.62	20	5.4	1.1	1.2	.18	.59
30	3.1	e1.5	e.16	e.08	---	e.72	19	4.8	.95	3.0	.18	.60
31	3.4	---	e.14	e.07	---	e.94	---	4.8	---	1.2	.15	---
TOTAL	66.9	74.5	17.99	2.49	3.08	11.16	446.7	504.0	69.73	33.42	12.54	19.33
MEAN	2.16	2.48	.58	.08	.11	.36	14.9	16.3	2.32	1.08	.40	.64
MAX	3.4	5.0	1.4	.12	.20	1.0	38	31	5.6	3.0	.95	2.6
MIN	1.1	1.3	.14	.05	.05	.14	1.0	4.8	.77	.45	.15	.14
ACFT	133	148	36	4.9	6.1	22	886	1000	138	66	25	38

CAL YR 1984	TOTAL	3656.12	MEAN	9.99	MAX	185	MIN	.14	ACFT	7250
WTR YR 1985	TOTAL	1261.84	MEAN	3.46	MAX	38	MIN	.05	ACFT	2500

e Estimated.

GREEN RIVER BASIN

63

09261000 GREEN RIVER NEAR JENSEN, UT

LOCATION.--Lat 40°24'34", long 109°14'05", in NE1/4SW1/4SE1/4 sec.5, T.5 S., R.24 E., Uintah County, Hydrologic Unit 14060001, Dinosaur National Monument, on right bank 300 ft upstream from highway bridge, 1 mi downstream from Cub Creek and Chew Ranch, 4 mi southeast of Dinosaur National Monument headquarters, 6.5 mi northeast of Jensen, 12 mi upstream from Brush Creek, and 313.9 mi from mouth.

DRAINAGE AREA.--29,660 mi², approximately, including about 4,260 mi², which probably is noncontributing. This noncontributing area includes 3,959 mi² in Great Divide Basin in southern Wyoming.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1903 to December 1904, June to August 1905 (gage heights only), March to September 1906, July to October 1914, August to December 1915, October 1946 to current year. Prior to October 1946, published as "at Jensen," except October to December 1903, which was published as "near Vernal."

REVISED RECORDS.--WSP 1243: 1904(m). WRD UT-73: 1972. WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,758 ft from river-profile map. Prior to Oct. 1, 1946, nonrecording gages at site 15 mi downstream at different datums. Dec. 13, 1946 to Sept. 30, 1948, water-stage recorder at present site at datum 1.50 ft higher.

REMARKS.--No estimated daily discharges. Records good. Transbasin diversions and diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see station 09234400) 93.1 mi upstream beginning Nov. 1, 1962.

AVERAGE DISCHARGE.--40 years (1903-04, 1946-85), 4,517 ft³/s, 3,273,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,000 ft³/s May 18, 1984; gage height, 14.66 ft; minimum observed, 102 ft³/s Dec. 6, 1904.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,000 ft³/s May 7, gage height, 10.08 ft; minimum daily, 1,670 ft³/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3300	5000	4020	4730	4850	4920	4880	12600	14600	4490	4140	2020
2	3570	4650	4610	5010	4850	4430	4780	13500	12900	4370	3620	2070
3	3060	4970	4040	4730	4950	3720	4990	15000	12700	4870	3490	2130
4	3400	4890	4630	4840	5000	3780	5400	16500	11300	4720	2480	1920
5	3150	4370	4010	4790	4900	3780	6900	18300	11000	4640	2050	2090
6	3860	4930	4260	4860	4940	4330	7860	19800	11000	4410	2210	2150
7	3340	3710	4450	4770	4950	3540	6340	20800	10500	4400	3200	2000
8	3890	3190	3960	4800	4850	3670	5980	20400	10800	5180	2470	2080
9	3650	3920	4450	4930	4950	3760	7150	18900	11200	4770	2770	1860
10	3740	3900	4150	4170	4900	3850	8090	19200	13000	4080	2510	1810
11	3690	4240	4690	4580	4880	4290	10400	19500	13500	3700	2450	2100
12	3940	4410	4040	4910	4870	4180	10700	19400	12700	4070	2260	2380
13	3720	3830	3790	4870	4850	4950	11100	19500	10900	3540	2010	2260
14	4010	4290	3630	4820	4850	4460	11800	16300	9270	4060	2500	1760
15	3960	4300	4140	4870	4840	4630	11700	14300	8560	3930	2600	2020
16	4010	4150	4510	4920	4610	4720	11800	12700	8260	3630	2420	1710
17	3520	4250	4430	4910	2420	4960	12700	12000	8200	3170	2470	2120
18	3640	4430	4640	4860	2160	5120	13500	11900	8080	2700	2350	2220
19	4360	3720	4120	4860	2120	5300	14400	12600	7740	2810	1920	2330
20	3760	4440	4750	4910	3350	5530	16000	13300	7280	2780	1980	2260
21	3820	3580	4680	5000	4860	6420	17100	12800	6780	3260	2210	2100
22	4670	3700	4550	4970	4890	7030	15300	12700	6360	3710	2180	2060
23	4240	3950	4830	4940	4850	6970	14600	13200	6040	4620	2250	1870
24	3770	3760	4670	4900	4800	6010	12900	12800	6250	4020	2320	2110
25	3900	3540	4510	4880	4890	5520	12000	13000	5640	3920	2080	2000
26	3900	4030	4770	4830	4900	5120	11900	13600	5270	4400	2130	1980
27	4360	3900	4690	4890	4920	6740	11000	14100	5730	4000	1960	1680
28	4600	4090	4420	4870	4880	7030	10600	14900	6160	4090	2450	2120
29	4360	3830	4210	4900	---	5380	10400	15000	6240	3760	1960	2080
30	4860	3810	4580	4920	---	4930	11200	15200	5290	3910	1980	1670
31	4420	---	4780	4910	---	4860	---	14900	---	4070	2370	---
TOTAL	120470	123780	136010	150150	127080	153930	313470	478700	273250	124080	75790	60960
MEAN	3886	4126	4387	4844	4539	4965	10450	15440	9108	4003	2445	2032
MAX	4860	5000	4830	5010	5000	7030	17100	20800	14600	5180	4140	2380
MIN	3060	3190	3630	4170	2120	3540	4780	11900	5270	2700	1920	1670
ACFT	239000	245500	269800	297800	252100	305300	621800	949500	542000	246100	150300	120900
CAL YR 1984	TOTAL 2859300		MEAN 7812		MAX 38500		MIN 2460		ACFT 5671000			
WTR YR 1985	TOTAL 2137670		MEAN 5857		MAX 20800		MIN 1670		ACFT 4240000			

GREEN RIVER BASIN

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER-QUALITY RECORDS

LOCATION.--Daily specific conductance and temperature data collected at bridge on U.S. Highway 40, at town of Jensen, 8 mi downstream from gaging station.

PERIOD OF RECORD.--June 1947 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1947 to September 1952, October 1961 to current year.

WATER TEMPERATURES: March 1949 to September 1959, October 1961 to current year.

SUSPENDED-SEDIMENT DISCHARGE: May 1948 to September 1979.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,330 microsiemens Sept. 10, 1963; minimum daily, 176 microsiemens May 24, 1963.

WATER TEMPERATURES: Maximum, 30.0°C July 11, 1958; minimum, 0.0°C on many days during winter period each year.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 40,600 mg/L Aug. 23, 1960; minimum daily mean, 9 mg/L Oct. 7-11, 1953, Nov. 22, 1962, and Sept. 1, 1972.

SEDIMENT LOADS: Maximum daily, 2,500,000 tons Mar. 29, 1962; minimum daily, 10 tons on many days in 1962 and 1963.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 890 microsiemens Apr. 6; minimum observed, 275 microsiemens June 14.

WATER TEMPERATURES: Maximum, 24.5°C Aug. 23, 24, 29, 30; minimum, 0.0°C several days during January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)
OCT 25...	1500	3860	700	8.2	11.0	7.0	10.3	641	260	5.1
DEC 05...	1100	3740	690	8.1	-5.0	2.0	12.2	652	260	5.2
JAN 28...	1330	4960	720	8.4	-7.0	2.0	11.8	642	270	5.5
FEB 19...	1400	2220	790	8.4	-2.0	1.5	12.6	648	290	5.9
MAR 13...	1300	5020	760	8.4	6.0	4.0	11.2	651	270	5.4
APR 17...	1330	13000	480	8.3	26.0	12.0	9.1	643	200	3.9
MAY 17...	1200	12400	420	8.4	25.0	14.0	8.7	649	180	3.7
JUN 14...	1300	9050	275	8.2	34.5	19.0	7.7	648	110	2.2
JUL 10...	1130	3730	600	8.5	32.0	21.0	7.9	654	200	4.1
AUG 13...	1715	1850	695	8.6	33.5	19.5	8.4	640	250	5.0
SEP 11...	1730	2310	710	8.6	12.0	14.0	8.3	635	260	5.2

GREEN RIVER BASIN

65

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 25...	58	27	56	32	1.6	2.3	150	190	21	0.3
DEC 05...	61	26	55	31	1.5	2.6	160	200	21	0.2
JAN 28...	67	26	53	29	1.4	2.6	150	180	21	0.3
FEB 19...	70	29	60	31	1.6	2.6	170	200	25	0.2
MAR 13...	63	28	58	31	1.6	3.2	170	200	19	0.2
APR 17...	47	19	30	25	1	2.3	100	120	9.3	0.2
MAY 17...	44	18	25	23	0.8	2.1	100	100	9.1	0.2
JUN 14...	27	10	16	24	0.7	1.4	69	58	6.7	0.2
JUL 10...	49	20	42	31	1.3	2.5	120	150	14	0.2
AUG 13...	58	25	54	32	1.5	2.9	150	170	23	0.3
SEP 11...	61	26	57	32	1.6	2.8	150	190	24	0.3

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT 25...	5.4	434	453	0.59	4520	0.18	0.01	0.01	<0.01	0.03
DEC 05...	6.2	460	470	0.63	4650	0.26	<0.01	0.01	<0.01	0.03
JAN 28...	7.0	464	449	0.63	6210	0.37	0.02	0.03	<0.01	0.03
FEB 19...	8.8	496	497	0.67	2970	0.5	0.03	0.04	<0.01	0.03
MAR 13...	9.7	489	482	0.67	6630	0.54	0.05	0.06	<0.01	0.03
APR 17...	10	312	301	0.42	11000	0.5	0.04	0.05	0.03	0.09
MAY 17...	10	268	270	0.36	8970	0.39	0.05	0.06	0.02	0.06
JUN 14...	8.3	170	169	0.23	4150	0.12	0.04	0.05	0.01	0.03
JUL 10...	5.0	380	358	0.52	3830	<0.1	0.03	0.04	0.01	0.03
AUG 13...	5.1	428	426	0.58	2140	<0.1	0.03	0.04	<0.01	0.03
SEP 11...	4.0	453	455	0.62	2830	0.1	0.04	0.05	<0.01	0.03

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 25...	1500	70
DEC 05...	1100	80
JAN 28...	1330	80
FEB 19...	1400	80
MAR 13...	1300	80
APR 17...	1330	50
MAY 17...	1200	30
JUN 14...	1300	20
JUL 10...	1130	60
AUG 13...	1715	80
SEP 11...	1730	90

GREEN RIVER BASIN

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

SPECIFIC CONDUCTANCE (US/CM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	630	740	720	830	---	700	870	375	350	670	700	---
2	700	740	---	830	---	730	870	375	---	670	710	730
3	720	740	860	840	---	---	860	375	345	680	700	730
4	700	---	860	840	---	750	870	380	350	670	---	730
5	700	760	850	840	---	750	---	---	380	670	700	720
6	630	740	860	---	---	750	890	375	375	670	700	730
7	---	710	840	770	---	750	---	375	375	---	700	730
8	720	730	860	790	---	800	---	375	370	670	700	---
9	650	730	---	780	---	810	---	385	---	670	700	730
10	640	750	870	810	---	---	---	385	375	670	700	730
11	640	---	850	800	---	810	---	385	380	670	---	730
12	720	730	840	780	---	810	540	---	370	670	740	730
13	650	720	860	---	---	750	540	390	370	680	740	720
14	---	760	860	790	---	800	---	370	380	---	---	760
15	640	770	870	810	---	810	540	390	360	720	740	---
16	650	770	---	800	---	810	540	370	---	710	740	770
17	650	750	840	---	---	---	480	390	375	710	740	760
18	650	---	880	---	770	800	---	395	590	720	---	760
19	640	750	820	---	770	800	---	---	380	720	710	760
20	640	750	840	---	780	800	---	390	590	720	700	730
21	---	760	830	---	720	800	---	390	590	---	700	760
22	740	760	860	810	720	860	---	350	590	720	700	---
23	660	770	---	800	730	840	---	370	---	720	710	760
24	670	760	850	810	---	---	---	350	590	720	700	760
25	670	---	830	820	730	850	---	365	590	720	---	760
26	660	720	820	790	710	860	---	---	590	720	710	760
27	670	730	860	---	730	860	---	360	590	720	710	760
28	---	710	860	800	740	860	---	360	610	---	700	760
29	680	730	860	780	---	860	---	360	600	720	730	---
30	670	750	---	820	---	860	---	360	---	720	730	760
31	710	---	850	840	---	---	---	365	---	720	730	---
MEAN	670	740	850	---	---	800	---	375	460	700	710	740

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	8.0	4.0	1.5	---	2.5	6.0	14.5	15.0	20.0	23.0	---
2	16.0	8.5	---	1.5	---	3.0	7.0	14.0	---	21.0	23.5	23.0
3	15.5	8.0	4.5	2.0	---	---	8.0	13.5	16.5	21.5	23.0	22.5
4	15.0	---	4.0	1.5	---	3.5	8.5	14.0	17.0	21.5	---	22.5
5	15.0	7.5	4.0	1.0	---	3.0	---	---	17.5	22.0	23.5	22.0
6	15.0	7.5	3.0	---	---	3.5	9.0	14.5	17.5	22.0	23.5	21.5
7	---	7.0	3.0	1.0	---	3.5	---	14.0	18.0	---	24.0	21.5
8	14.5	7.0	3.5	.5	---	3.0	9.5	13.5	18.0	23.0	24.0	---
9	14.0	7.5	---	.5	---	3.5	9.5	13.0	---	23.5	24.0	21.0
10	13.5	7.5	3.0	.5	---	---	10.0	13.5	19.0	23.5	23.0	20.0
11	13.0	---	3.5	.0	---	4.0	10.5	13.0	19.0	24.0	---	20.0
12	12.0	6.0	4.0	.0	---	4.5	11.0	---	19.5	24.0	23.5	19.5
13	10.0	6.0	3.5	---	---	5.0	10.5	13.5	20.0	23.0	24.0	20.0
14	---	6.5	4.5	.0	---	4.5	---	14.0	20.0	---	---	19.5
15	10.5	6.0	4.0	.0	---	5.0	11.0	14.5	19.5	23.5	24.0	---
16	10.0	6.5	---	.0	---	5.0	11.5	14.5	---	23.0	23.5	19.0
17	10.0	6.0	3.5	---	---	---	11.0	15.0	20.0	23.5	23.0	18.5
18	9.5	---	4.0	---	1.5	5.5	11.0	15.0	20.5	23.5	---	18.0
19	10.0	5.5	4.0	---	1.5	5.5	11.5	---	20.0	24.0	23.5	17.0
20	9.5	5.5	3.5	---	2.0	5.0	11.5	14.5	19.5	23.0	24.0	17.0
21	---	5.0	3.0	---	1.5	5.0	---	15.0	19.0	---	23.0	16.5
22	9.5	5.0	2.5	.0	2.0	5.5	12.0	15.5	19.0	23.0	24.0	---
23	10.0	5.5	---	.0	2.0	5.5	12.5	15.0	---	22.5	24.5	16.0
24	9.5	5.5	2.5	.0	---	---	12.5	14.5	19.0	23.0	24.5	15.0
25	9.5	---	2.5	.0	2.5	5.5	13.0	14.0	18.5	23.5	---	15.0
26	9.0	5.0	2.0	.0	2.5	5.5	13.0	---	19.0	23.0	24.0	14.5
27	9.5	4.5	2.0	---	3.0	5.5	13.5	15.0	19.0	22.0	23.5	14.5
28	---	4.5	2.5	.0	2.0	5.0	---	15.5	20.0	---	24.0	15.0
29	9.0	4.0	2.0	.0	---	5.0	14.0	15.0	19.5	23.5	24.5	---
30	9.5	4.5	---	.0	---	5.0	14.0	15.0	---	23.0	24.5	15.0
31	9.0	---	2.0	.0	---	---	---	14.5	---	23.0	23.0	---
MEAN	11.5	6.0	3.0	---	---	4.5	11.0	14.0	19.0	23.0	23.5	18.5

GREEN RIVER BASIN

67

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
JUN 14...	1300	9050	19.0	--	543	13300
JUL 10...	1130	3730	21.0	--	28	282
AUG 13...	1715	1850	19.5	63	43	215
SEP 11...	1730	2310	14.0	58	75	468

GREEN RIVER BASIN

09261700 BIG BRUSH CREEK ABOVE RED FLEET RESERVOIR, NEAR VERNAL, UT

LOCATION.--Lat 40°35'20", long 109°27'53", in NW1/4SE1/4NE1/4 sec.5, T.3 S., R.22 E., Uintah County, Hydrologic Unit 14060002, on right bank 950 ft below State Highway 44, 5.5 mi upstream from Little Brush Creek, and 10.5 mi northeast of Vernal.

DRAINAGE AREA.--77.2 mi².

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,625 ft from topographic map. Prior to September 1980, water-stage recorder at site 250 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Water from Oaks Park Reservoir (capacity 6,250 acre-ft) is diverted through Oaks Park Canal to Ashley Creek basin.

AVERAGE DISCHARGE.--6 years, 46.5 ft³/s, 33,690 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 375 ft³/s June 2, 1983, gage height, 2.40 ft; maximum gage height, 3.06 ft May 23, 1980 at different datum; minimum daily, 9.5 ft³/s Feb. 5, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 235 ft³/s May 10, gage height, 1.94 ft; minimum daily, 16 ft³/s Jan. 31 - Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	27	e26	e21	e16	18	18	160	137	37	53	31
2	39	27	e26	e20	e16	18	19	181	138	37	50	32
3	38	28	e26	e20	e17	18	20	208	123	35	48	31
4	35	27	e25	e20	e17	18	22	223	110	38	47	30
5	33	26	e23	e19	e17	18	22	225	97	42	45	30
6	32	27	e22	e20	e17	18	22	227	95	42	43	30
7	34	27	e21	e20	e17	18	23	224	89	42	42	30
8	35	27	e21	e21	e18	18	25	225	78	43	41	30
9	34	26	e21	e20	e18	18	28	221	75	41	41	29
10	34	26	e22	e19	18	18	33	225	73	39	40	28
11	34	27	e23	e19	18	18	44	225	68	39	38	29
12	33	27	e23	e18	18	18	59	230	63	41	38	39
13	33	27	e23	e18	18	18	77	230	59	46	38	33
14	33	26	e22	e18	18	18	104	229	56	47	36	30
15	32	25	e21	e18	18	18	145	226	53	42	35	29
16	31	25	e21	e19	18	18	178	220	50	41	35	28
17	31	25	e21	e19	18	18	194	219	49	42	35	27
18	32	25	e21	e19	18	19	202	223	47	51	35	28
19	31	24	e22	e19	18	19	204	222	46	48	34	42
20	31	24	e22	e19	18	18	187	216	43	61	34	42
21	30	25	e21	e19	18	18	159	212	44	57	35	35
22	30	24	e21	e19	17	18	127	215	42	64	39	33
23	29	24	e20	e19	17	18	102	218	39	80	39	33
24	28	24	e20	e18	17	18	96	213	37	76	39	32
25	28	26	e20	e19	17	18	86	206	42	64	40	31
26	29	25	e20	18	18	18	77	202	52	57	41	30
27	29	e24	e20	18	18	19	71	196	48	54	34	30
28	28	e24	e21	18	18	19	79	188	43	57	32	29
29	28	e24	e21	18	---	19	99	175	41	55	32	29
30	28	e25	e20	e17	---	18	145	159	38	65	32	29
31	28	---	e21	e16	---	18	---	144	---	58	32	---
TOTAL	979	768	677	585	491	563	2667	6487	1975	1541	1203	939
MEAN	31.6	25.6	21.8	18.9	17.5	18.2	88.9	209	65.8	49.7	38.8	31.3
MAX	39	28	26	21	18	19	204	230	138	80	53	42
MIN	28	24	20	16	16	18	18	144	37	35	32	27
ACFT	1940	1520	1340	1160	974	1120	5290	12870	3920	3060	2390	1860
CAL YR 1984	TOTAL	20675	MEAN	56.5	MAX	280	MIN	18	ACFT	41010		
WTR YR 1985	TOTAL	18875	MEAN	51.7	MAX	230	MIN	16	ACFT	37440		

e Estimated.

GREEN RIVER BASIN

69

09266500 ASHLEY CREEK NEAR VERNAL, UT

LOCATION.--Lat 40°34'39", long 109°37'17", in NE1/4NW1/4NE1/4 sec.12, T.3 S., R.20 E., Uintah County, Hydrologic Unit 14060002, on right bank 0.8 mi upstream from head of Utah Power & Light Co.'s canal, 4.5 mi upstream from Dry Fork, and 10 mi northwest of Vernal.

DRAINAGE AREA.--101 mi².

PERIOD OF RECORD.--October 1911 to April 1912, August to December 1912, October 1913 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 6,230.61 ft NGVD of 1929. Prior to Nov. 14, 1917, nonrecording and water-stage recorder at several sites within 1.5 mi of present site at various datums. Nov. 14, 1917 to July 30, 1968, water-stage recorder at site 75 ft downstream at various datums.

REMARKS.--No estimated daily discharges. Records good. Flow increased since July 1940 by water released from Oaks Park Reservoir, capacity, 6,250 acre-ft on Big Brush Creek and diverted to Ashley Creek basin for irrigation. City of Vernal pipeline, capacity, approximately 11 ft³/s, diverts water from tributary spring about 1,000 ft above station (diversion began Aug. 1, 1941); at times, part of this flow is returned to Ashley Creek 2.5 mi below station. Prior to September 1961, pipeline capacity was approximately 5 ft³/s and the return flow entered Ashley Creek 0.5 mi below station.

AVERAGE DISCHARGE.--72 years (1913-85), 100 ft³/s, 72,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,500 ft³/s June 11, 1965, gage height, 4.42 ft, datum then in use from rating table extended above 1,060 ft³/s; maximum gage height, 6.09 ft June 16, 1929, datum then in use; minimum, 3.2 ft³/s Mar. 16, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 3	2100	*1,130	*3.94	May 10	0300	1,040	3.84

Minimum, 20 ft³/s on Mar. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	63	48	38	32	29	27	394	256	92	145	97
2	103	64	45	37	32	29	28	596	250	87	138	99
3	101	61	45	37	32	29	29	755	206	83	132	96
4	95	59	45	36	32	28	30	749	200	104	129	100
5	88	59	43	36	32	28	29	625	212	105	124	93
6	81	60	42	36	32	28	28	543	201	104	116	88
7	78	58	43	37	32	28	29	563	213	102	110	92
8	76	59	43	37	32	28	29	638	265	100	106	93
9	74	58	43	36	30	28	31	665	238	100	126	91
10	72	55	44	36	29	28	35	841	205	123	128	86
11	70	54	43	36	29	28	40	469	176	123	126	99
12	69	54	42	35	29	28	47	372	161	125	121	143
13	70	55	42	36	29	28	62	328	152	143	117	119
14	79	54	41	36	29	28	113	312	147	142	115	116
15	69	51	41	36	29	27	162	321	143	130	114	111
16	67	49	42	35	29	24	229	333	140	135	117	109
17	66	49	41	35	29	26	311	337	136	122	113	100
18	65	49	42	34	28	27	341	356	129	200	110	99
19	68	47	41	34	28	28	336	343	124	159	107	178
20	70	41	41	34	29	27	308	323	119	261	107	124
21	71	40	41	34	29	29	254	319	117	200	113	99
22	70	41	41	34	29	27	193	322	113	324	112	86
23	70	43	38	33	28	28	172	335	109	316	111	84
24	68	41	38	33	28	26	167	330	104	302	110	81
25	69	42	40	34	29	27	156	339	130	192	111	76
26	69	44	40	32	28	28	145	332	130	161	110	74
27	69	43	39	33	29	28	138	330	122	155	103	71
28	67	46	40	33	28	29	147	323	108	176	105	69
29	69	43	38	32	---	28	199	305	109	181	102	66
30	65	43	39	32	---	28	323	274	99	238	99	66
31	66	---	38	32	---	28	---	248	---	170	98	---
TOTAL	2287	1525	1289	1079	831	860	4136	13320	4814	4955	3575	2905
MEAN	73.8	50.8	41.6	34.8	29.7	27.7	138	430	160	160	115	96.8
MAX	103	64	48	38	32	29	341	841	265	324	145	178
MIN	65	40	38	32	28	24	27	248	99	83	98	66
ACFT	4540	3020	2560	2140	1650	1710	8200	26420	9550	9830	7090	5760
CAL YR 1984	TOTAL	46522	MEAN	127	MAX	1420	MIN	25	ACFT	92280		
WTR YR 1985	TOTAL	41576	MEAN	114	MAX	841	MIN	24	ACFT	82470		

GREEN RIVER BASIN

09267500 MOSBY CANAL NEAR LAPOINT, UI

LOCATION.--Lat 40°36'30", long 109°53'00", in sec.27, T.2 S., R.18 E. (unsurveyed), Uintah County, Hydrologic Unit 14060002, on left bank 4.5 mi southeast of Paradise Park Reservoir, 8 mi downstream from diversion from Dry Fork, and 16 mi northwest of Lapoint.

PERIOD OF RECORD.--July 1954 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 9,500 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No flow is assumed November to April. Canal began diverting in 1942 or 1943 from Dry Fork for irrigation in Deep Creek basin. Since 1975 flow regulated by Julius Park Reservoir, capacity 200 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 37 ft³/s June 16, 17, 1969; no flow for extended periods each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e12							---	16	19	25	11
2	e12							---	15	19	24	9.9
3	e12							---	15	18	24	9.4
4	e12							---	15	17	23	8.7
5	e12							---	15	16	22	8.2
6	e11							---	15	15	21	7.9
7	e11							---	15	16	19	7.7
8	e11							---	15	18	19	8.5
9	e11							---	24	19	19	8.1
10	e11							---	26	16	18	7.4
11	11							e3.5	25	16	17	8.3
12	12							e4.0	23	20	16	11
13	14							e4.5	23	23	15	13
14	14							e5.0	22	24	15	13
15	11							e5.5	25	22	14	e13
16	9.2							e6.0	27	24	13	e12
17	7.9							e6.5	27	22	13	e12
18	4.3							e7.0	26	26	13	e11
19	e.18							e7.5	26	25	14	e10
20	e.14							e8.0	25	29	17	e10
21	e.13							e8.5	25	31	20	e10
22	e.12							e9.0	24	34	20	e10
23	e.11							e9.5	22	32	19	e10
24	e.11							e10	22	31	19	e10
25	e.10							e11	28	29	20	e10
26	---							e12	26	28	19	e10
27	---							e13	25	28	18	e10
28	---							e14	23	27	17	e10
29	---							e15	22	26	15	e10
30	---							e17	19	29	14	e10
31	---							e16	---	26	12	---
TOTAL	---							---	656	725	554	300.1
MEAN	---							---	21.9	23.4	17.9	10.0
MAX	---							---	28	34	25	13
MIN	---							---	15	15	12	7.4
ACFT	---							---	1300	1440	1100	595

e Estimated.

GREEN RIVER BASIN

71

09268500 NORTH FORK OF DRY FORK NEAR DRY FORK, UT

LOCATION.--Lat 40°38'34", long 109°48'37", in NE1/4NW1/4SE1/4 sec.17, T.2 S., R.19 E., Uintah County, Hydrologic Unit 14060002, Ashley National Forest, on left bank 2 mi upstream from mouth, and 9.5 mi northwest of town of Dry Fork.

DRAINAGE AREA.--8.62 mi².

PERIOD OF RECORD.--April 1946 to current year.

REVISED RECORDS.--WSP 2125: Drainage area. WDR UT-77-1: 1976.

GAGE.--Water-stage recorder. Datum of gage is 8,284.28 ft NGVD of 1929 (levels by Utah Water and Power Board).

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

AVERAGE DISCHARGE.--39 years, 6.85 ft³/s, 4,960 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 249 ft³/s June 19, 1983, gage height, 3.68 ft; no flow for part of Apr. 21, 1961, May 1, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 22	1600	*77	*3.02	No other peak greater than base discharge.			

Minimum daily, 0.90 ft³/s Jan. 10, 31, Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	2.6	2.0	e1.2	e.90	e1.1	e1.3	18	15	5.6	12	3.3
2	3.6	2.6	e1.9	e1.2	e1.0	e1.1	e1.4	26	15	5.4	11	3.3
3	3.5	2.6	2.0	1.3	e1.1	e1.1	e1.4	32	13	5.2	11	3.3
4	3.5	2.6	2.0	e1.1	e1.1	e1.1	e1.5	31	13	4.9	11	3.3
5	3.3	2.6	1.9	e1.1	e1.0	e1.1	e1.6	29	12	4.8	11	3.1
6	3.1	2.6	1.9	e1.2	e1.1	e1.1	e1.7	27	11	4.6	9.9	3.1
7	3.0	2.4	1.9	e1.2	e1.1	e1.1	e2.0	27	12	4.6	9.4	3.0
8	3.0	2.4	1.9	e1.1	1.2	e1.1	e2.5	28	12	4.4	8.8	3.0
9	3.0	2.4	1.9	e1.0	1.2	e1.1	e3.0	28	11	4.4	8.5	3.0
10	3.0	e2.2	1.9	e.90	e1.1	e1.1	e4.0	32	11	4.2	8.1	2.8
11	2.9	e2.3	1.9	e1.0	e1.0	e1.2	e5.0	27	11	4.0	7.6	5.8
12	3.3	e2.3	1.8	e1.0	e1.1	e1.3	6.6	24	11	3.9	7.4	4.3
13	3.1	e2.3	1.8	e1.0	e1.1	e1.3	8.1	22	10	4.1	7.1	3.5
14	3.3	e2.3	e1.7	e1.1	e1.1	e1.2	10	21	10	4.4	6.8	3.1
15	2.6	e2.1	1.8	e1.1	e1.1	e1.2	15	20	9.8	4.5	6.3	3.0
16	2.5	2.2	1.8	e1.1	e1.1	e1.4	21	20	9.5	4.0	6.1	3.0
17	2.8	2.2	1.8	e1.1	e1.1	e1.5	23	19	9.1	4.0	5.8	2.9
18	3.2	2.2	1.8	e1.1	e1.1	e1.5	17	19	8.7	5.8	5.6	4.2
19	2.9	e2.0	1.7	1.2	e1.1	e1.5	16	18	8.3	5.7	5.4	8.7
20	2.9	e2.0	e1.6	1.2	e1.1	e1.5	13	17	7.9	22	5.1	6.7
21	2.9	e2.0	e1.5	1.2	e1.1	e1.3	11	17	7.6	20	4.7	5.9
22	2.8	2.1	e1.5	1.2	e1.1	e1.3	10	18	7.5	39	4.5	5.1
23	2.8	2.1	1.6	e1.1	e1.1	e1.3	9.7	18	7.4	27	4.4	4.5
24	2.8	2.1	1.6	e1.1	e1.1	e1.3	8.0	18	7.2	20	4.2	4.3
25	2.8	2.1	1.5	e1.2	e1.1	e1.5	8.1	18	8.5	17	4.0	4.2
26	2.8	e2.0	1.5	e1.1	e1.1	e1.3	8.4	18	7.5	16	3.9	4.0
27	2.7	e2.0	1.5	e1.1	e1.1	e1.3	8.5	17	7.1	15	3.8	3.9
28	2.8	2.1	1.5	e1.1	e1.1	e1.3	9.3	16	6.7	15	3.7	3.7
29	2.7	2.1	1.4	e1.1	---	e1.3	13	16	6.3	14	3.6	3.6
30	2.6	2.0	1.4	e1.0	---	e1.3	17	15	6.0	13	3.4	3.6
31	2.6	---	1.4	e.90	---	e1.3	---	14	---	13	3.4	---
TOTAL	91.7	67.5	53.4	34.30	30.50	39.1	258.1	670	292.1	319.5	207.5	119.2
MEAN	2.96	2.25	1.72	1.11	1.09	1.26	8.60	21.6	9.74	10.3	6.69	3.97
MAX	3.6	2.6	2.0	1.3	1.2	1.5	23	32	15	39	12	8.7
MIN	2.5	2.0	1.4	.90	.90	1.1	1.3	14	6.0	3.9	3.4	2.8
ACFT	182	134	106	68	60	78	512	1330	579	634	412	236

CAL YR 1984	TOTAL	2732.6	MEAN	7.47	MAX	67	MIN	1.0	ACFT	5420
WTR YR 1985	TOTAL	2182.90	MEAN	5.98	MAX	39	MIN	.90	ACFT	4330

e Estimated.

GREEN RIVER BASIN

09268900 BROWNIE CANYON CREEK ABOVE SINKS, NEAR DRY FORK, UT

LOCATION.--Lat 40°39'34", long 109°45'01", in NE1/4NE1/4SE1/4 sec.11, T.2 S., R.19 E. (unsurveyed), Uintah County, Hydrologic Unit 14060002, Ashley National Forest, on right bank 4.5 mi upstream from mouth and 8.5 mi northwest of town of Dry Fork.

DRAINAGE AREA.--8.24 mi².

PERIOD OF RECORD.--October 1960 to current year. Published as East Fork of Dry Fork above sinks, near Dry Fork prior to October 1967.

GAGE.--Water-stage recorder. Altitude of gage is 8,300 ft from topographic map. Prior to July 28, 1978 at 0.53 ft higher datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion above station.

AVERAGE DISCHARGE.--25 years, 13.2 ft³/s, 9,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 592 ft³/s June 18, 1983, gage height, 3.52 ft, from rating curve extended above 200 ft³/s; no flow for part of Apr. 23, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 3	2000	*197	2.31	July 20	1500	174	2.23

Minimum daily, 1.50 ft³/s Jan. 30, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e8.0	e6.0	e2.1	e2.0	e1.7	e1.7	e1.9	49	36	14	21	6.6
2	13	e6.0	e2.2	e2.0	e1.7	e1.7	e1.9	92	34	14	19	6.6
3	11	e6.0	e2.2	e2.0	e1.7	e1.7	e1.9	124	31	13	18	6.4
4	9.8	e6.0	e2.1	e2.0	e1.7	e1.7	e1.9	126	28	13	16	6.8
5	8.5	e5.0	e2.0	e2.0	e1.7	e1.7	e1.9	108	27	12	15	6.1
6	7.7	e4.5	e2.0	e2.1	e1.7	e1.7	e1.9	93	27	12	14	6.1
7	7.3	e4.5	e2.0	e2.1	e1.7	e1.7	e2.0	103	28	12	14	6.1
8	6.9	e4.5	e2.0	e2.1	e1.9	e1.7	2.1	107	29	12	14	5.8
9	6.7	e4.5	e2.2	e1.9	e1.9	e1.7	2.8	99	32	11	14	5.1
10	6.7	e4.0	e2.2	e1.9	e1.7	e1.7	3.6	104	33	11	13	5.0
11	6.4	e4.4	e2.2	e1.9	e1.6	e2.0	4.7	61	33	11	13	9.6
12	7.3	e4.8	e2.0	e1.7	e1.6	e2.0	6.2	43	33	11	12	8.5
13	7.4	e3.5	e2.0	e1.7	e1.7	e2.0	7.9	36	32	16	12	6.8
14	7.8	e3.2	e2.0	e1.7	e1.7	e2.0	11	33	30	13	11	6.1
15	6.4	e3.0	e2.0	e1.8	e1.7	e2.0	19	36	29	14	11	5.5
16	e5.6	e3.0	e2.0	e2.0	e1.7	e1.9	31	38	28	12	11	5.2
17	e5.0	e3.0	e2.0	e2.1	e1.7	e1.9	34	40	26	19	9.9	5.1
18	e5.0	e3.0	e2.0	e2.1	e1.7	e1.9	34	45	24	30	9.7	8.4
19	e5.0	e3.0	e2.0	e2.1	e1.7	e1.9	34	41	23	19	9.6	22
20	e5.0	e3.0	e2.0	e2.1	e1.7	e1.9	27	35	21	73	9.1	13
21	e5.0	e3.5	e2.3	e2.1	e1.7	e1.9	19	34	20	50	8.8	11
22	e5.0	e3.5	e2.3	e2.1	e1.7	e1.9	15	37	19	78	8.7	10
23	e5.0	e3.5	e2.3	e1.9	e1.7	e2.0	14	41	18	61	8.5	9.0
24	e5.4	e3.5	e2.3	e1.7	e1.7	e2.0	12	40	18	47	8.2	8.3
25	e6.0	e3.0	e2.2	e1.7	e1.7	e2.0	11	42	23	34	8.0	7.9
26	e6.0	e2.5	e2.2	e1.9	e1.7	e2.0	10	41	20	32	7.8	7.6
27	e6.0	e2.5	e2.5	e1.9	e1.7	e2.0	9.6	40	17	31	7.6	7.5
28	e6.0	e2.5	e2.5	e1.9	e1.7	e2.0	11	39	16	30	7.4	7.4
29	e6.0	e2.5	e2.2	e1.9	---	e2.0	19	37	15	29	7.0	7.1
30	e6.0	e2.1	e2.2	e1.5	---	e2.0	34	35	15	27	6.8	6.9
31	e6.0	---	e2.2	e1.5	---	e2.0	---	34	---	24	6.7	---
TOTAL	208.9	114.0	66.4	59.4	47.8	58.3	385.3	1833	765	785	351.8	233.5
MEAN	6.74	3.80	2.14	1.92	1.71	1.88	12.8	59.1	25.5	25.3	11.3	7.78
MAX	13	6.0	2.5	2.1	1.9	2.0	34	126	36	78	21	22
MIN	5.0	2.1	2.0	1.5	1.6	1.7	1.9	33	15	11	6.7	5.0
ACFT	414	226	132	118	95	116	764	3640	1520	1560	698	463

CAL YR 1984	TOTAL	5138.00	MEAN	14.0	MAX	185	MIN	.80	ACFT	10190
WTR YR 1985	TOTAL	4908.4	MEAN	13.4	MAX	126	MIN	1.5	ACFT	9740

e Estimated.

GREEN RIVER BASIN

73

09270500 DRY FORK AT MOUTH, NEAR DRY FORK, UT

LOCATION.--Lat 40°31'35", long 109°36'18", in SE1/4NE1/4SW1/4 sec.30, T.3 S., R.21 E., Uintah County, Hydrologic Unit 14060002, on left bank 900 ft upstream from mouth and 4 mi southeast of town of Dry Fork.

DRAINAGE AREA.--115 mi².

PERIOD OF RECORD.--July 1954 to current year.

REVISED RECORD.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,842.9 ft NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Several diversions above station for irrigation, including Mosby Canal (see station 09267500) which began diverting water for irrigation in Deep Creek basin during 1942 or 1943.

AVERAGE DISCHARGE.--31 years, 27.8 ft³/s, 20,140 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,920 ft³/s June 21, 1983, gage height, 6.98 ft; no flow for several periods in 1956-61, 1963, 1966, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 23	0100	*222	*3.80				

Minimum daily discharge, 1.1 ft³/s, Apr. 13-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	4.1	e3.5	3.5	e2.5	3.6	2.1	21	115	39	59	2.8
2	4.5	4.1	e3.0	3.4	e2.5	2.8	2.1	25	109	35	56	2.4
3	3.1	4.0	e3.2	3.5	e3.0	3.1	2.1	29	109	31	54	1.9
4	2.8	3.9	e3.2	3.6	e3.5	3.9	1.7	37	110	26	52	2.1
5	2.7	3.9	e3.0	3.6	e3.3	4.1	1.6	83	104	23	48	2.2
6	2.7	4.1	e3.0	3.6	e3.4	3.1	1.7	118	108	18	44	2.2
7	2.6	4.3	e3.2	3.6	e3.5	3.1	1.7	114	106	17	42	2.4
8	2.8	4.5	e3.5	3.3	e4.5	3.1	1.5	148	106	15	40	2.6
9	2.7	4.7	e4.0	3.5	e4.0	3.1	1.4	169	110	13	35	2.4
10	2.6	4.2	e3.8	3.3	e2.8	3.3	1.2	187	107	9.9	33	2.3
11	2.6	4.4	e4.0	3.2	e2.8	3.7	1.2	150	103	8.0	31	5.0
12	3.1	4.7	e4.1	e3.0	e3.1	4.2	1.2	127	105	8.1	28	7.3
13	3.0	4.6	e3.9	e3.0	e3.5	4.1	1.1	98	103	8.5	24	4.0
14	3.0	4.6	e4.0	e3.0	e2.7	4.1	1.1	87	98	6.5	22	3.7
15	3.0	4.4	e3.9	e3.0	e2.9	4.1	1.1	86	93	6.8	14	3.5
16	3.0	4.5	e3.5	e3.0	3.0	4.9	1.1	89	88	6.6	11	3.5
17	3.6	4.6	e3.0	e3.0	2.8	5.7	1.4	93	86	7.2	9.6	4.1
18	3.6	4.5	e2.7	e3.0	2.6	6.6	17	94	84	7.5	9.5	6.8
19	3.6	4.3	e2.7	e3.2	2.5	8.3	25	95	80	11	9.1	11
20	3.2	4.3	e3.5	e3.5	2.7	8.7	31	96	75	27	8.0	6.5
21	3.5	4.3	e3.9	3.9	2.8	7.7	34	98	66	36	7.8	5.8
22	4.2	4.2	e3.5	4.0	2.9	6.3	35	96	55	75	6.2	6.4
23	4.2	4.2	e3.4	3.4	2.9	5.2	32	97	44	139	5.3	6.9
24	4.1	4.5	e3.3	3.1	3.7	5.5	31	101	38	95	5.3	6.4
25	4.1	4.0	e3.2	3.4	3.1	5.7	30	115	50	74	5.0	5.6
26	4.1	4.2	e3.0	4.1	4.3	5.0	27	128	45	67	4.9	5.2
27	4.9	3.8	e3.0	4.2	3.5	4.9	22	139	40	63	5.0	5.0
28	4.2	4.0	e3.1	4.1	4.0	4.2	18	135	39	63	5.0	4.9
29	4.1	e4.0	e3.2	3.9	---	3.7	14	129	41	59	4.4	4.8
30	4.1	e3.8	e3.3	e3.5	---	3.7	16	113	42	60	3.8	4.8
31	4.2	---	3.5	e3.0	---	2.9	---	118	---	61	3.4	---
TOTAL	107.2	127.7	105.1	106.4	88.8	142.4	357.3	3215	2459	1116.1	685.3	134.5
MEAN	3.46	4.26	3.39	3.43	3.17	4.59	11.9	104	82.0	36.0	22.1	4.48
MAX	4.9	4.7	4.1	4.2	4.5	8.7	35	187	115	139	59	11
MIN	2.6	3.8	2.7	3.0	2.5	2.8	1.1	21	38	6.5	3.4	1.9
ACFT	213	253	208	211	176	282	709	6380	4880	2210	1360	267
CAL YR 1984	TOTAL	10951.4	MEAN	29.9	MAX	590	MIN	1.0	ACFT	21720		
WTR YR 1985	TOTAL	8644.8	MEAN	23.7	MAX	187	MIN	1.1	ACFT	17150		

e Estimated.

GREEN RIVER BASIN

09275500 WEST FORK DUCHESNE RIVER NEAR HANNA, UT

LOCATION.--Lat 40°27'01", long 110°53'01", in SE1/4NE1/4SE1/4 sec.27, T.1 N., R.9 W., Uinta Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 1,500 ft upstream from Wolf Creek, and 7.1 mi northwest of Hanna.

DRAINAGE AREA.--61.6 mi².

PERIOD OF RECORD.--May to October 1904 (gage heights only, fragmentary), August 1921 to March 1922, October 1922 to September 1923, October 1945 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,218 ft from topographic map. Prior to Oct. 1, 1923, non-recording gages at approximately same site at different datums.

REMARKS.--Records fair except for estimated daily discharges, which are poor. One small diversion for irrigation of about 100 acres above station.

AVERAGE DISCHARGE.--41 years (1922-23, 1945-85), 49.9 ft³/s, 36,150 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 758 ft³/s June 5, 1967, maximum gage height, 4.40 ft June 4, 1952, datum then in use; minimum discharge recorded, 0.19 ft³/s Mar. 29, 1975, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 8	0100	392	2.89	May 26	2300	*461	*3.07

Minimum discharge, 10 ft³/s Mar. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	20	17	e16	e15	15	23	167	232	62	36	26
2	29	21	e16	e16	e16	15	e23	220	220	75	33	27
3	27	22	e17	e17	e16	15	e28	259	213	61	32	28
4	23	20	e16	e18	e17	e15	e29	296	215	55	31	27
5	21	21	e16	e19	e17	e15	e27	299	219	55	31	26
6	19	21	e16	e20	e17	15	e30	289	216	53	29	26
7	18	20	e17	e22	e16	19	e35	295	225	52	27	26
8	18	20	17	19	e16	16	e40	342	221	51	26	26
9	19	21	17	18	e17	19	e45	345	203	49	27	26
10	19	e19	17	19	e17	16	e52	363	191	46	26	25
11	19	21	17	21	e17	16	e54	275	172	46	25	29
12	23	20	17	e19	e16	16	e60	240	160	56	25	33
13	22	19	e19	e18	e15	16	e68	214	150	55	25	28
14	23	e19	e18	e17	e15	18	e74	203	142	49	25	27
15	22	e18	e17	e16	e16	16	e78	205	135	44	25	26
16	20	e19	e19	e16	e16	16	e82	205	126	43	24	25
17	18	19	e18	15	e15	17	e94	215	122	43	23	24
18	20	e18	e19	15	e16	18	e105	244	114	43	23	26
19	22	e17	e20	15	e16	18	e100	272	88	56	26	44
20	22	e18	e19	15	e16	18	e93	276	112	50	24	31
21	22	e18	e18	15	e16	18	e88	256	93	51	24	29
22	19	e18	e20	17	15	20	e85	253	88	51	26	28
23	20	e17	e20	e16	16	23	e83	280	83	52	25	26
24	21	e18	e18	e16	21	20	e82	286	80	36	25	27
25	21	e18	e16	e17	16	21	82	326	84	39	25	26
26	21	e17	e17	e18	e17	20	82	353	77	36	25	25
27	22	e16	e19	e18	e16	18	79	363	82	38	25	26
28	23	e17	e18	e17	e16	22	83	350	68	43	25	25
29	24	18	e17	e16	---	22	103	328	64	50	24	24
30	22	17	e16	e17	---	27	138	293	65	40	24	24
31	22	---	e16	e16	---	22	---	252	---	40	24	---
TOTAL	662	567	544	534	455	562	2045	8564	4260	1520	815	816
MEAN	21.4	18.9	17.5	17.2	16.3	18.1	68.2	276	142	49.0	26.3	27.2
MAX	29	22	20	22	21	27	138	363	232	75	36	44
MIN	18	16	16	15	15	15	23	167	64	36	23	24
ACFT	1310	1120	1080	1060	902	1110	4060	16990	8450	3010	1620	1620
CAL YR 1984	TOTAL	26440	MEAN	72.2	MAX	535	MIN	14	ACFT	52440		
WTR YR 1985	TOTAL	21344	MEAN	58.5	MAX	363	MIN	15	ACFT	42340		

e Estimated.

GREEN RIVER BASIN

75

09277500 DUCHESNE RIVER NEAR TABLONA, UT

LOCATION.--Lat 40°08'01", long 110°36'06", in SE1/4SW1/4SE1/4 sec.18, T.2 S., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank on upstream site of bridge on State Highway 35, 6 mi upstream from Rock Creek, and 7 mi southeast of Tablona.

DRAINAGE AREA.--356 mi².

PERIOD OF RECORD.--October 1918 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,190 ft from topographic map. Prior to Oct. 15, 1934, non-recording gage, and Oct. 16, 1934 to Nov. 6, 1953, water-stage recorder at site 0.5 mi upstream at various datums. Nov. 7, 1953 to Nov. 7, 1972, at site 1 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Several diversions above station for irrigation, including a transmountain diversion through Duchesne Tunnel 20 mi upstream.

AVERAGE DISCHARGE.--67 years, 203 ft³/s, 147,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,260 ft³/s June 16, 1963, gage height, 7.97 ft from floodmarks, caused by failure of Little Deer Creek Dam 20 mi upstream. Rating curve extended above 400 ft³/s on basis of slope-area measurement and area-velocity study of peak flow; minimum recorded, 27 ft³/s Oct. 17, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 10	1700	1,150	3.79	June 9	0800	1,150	3.86
May 28	0400	*1,240	*3.95				

Minimum discharge, 76 ft³/s Feb. 18, 19, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	192	185	159	132	113	104	125	555	808	238	202	e110
2	245	190	147	129	e110	102	153	710	735	223	191	e107
3	215	197	159	e129	e108	101	174	859	690	204	188	e108
4	206	189	148	e128	e111	97	176	993	686	195	174	e118
5	197	178	152	e126	e107	102	147	1040	738	194	163	e120
6	190	190	149	e128	e103	105	160	988	767	190	147	e110
7	184	183	155	e127	e105	96	177	952	886	191	151	e112
8	183	185	141	124	e110	102	198	1030	1050	189	171	e118
9	182	183	141	123	e113	100	235	1030	1060	182	165	e118
10	182	171	141	120	e111	107	267	1070	992	185	167	e109
11	177	194	141	126	e109	120	294	911	844	e203	143	e130
12	191	182	121	108	e120	310	753	741	230	e151	160	e160
13	201	183	143	e120	e106	111	330	633	701	e213	183	e146
14	200	183	138	e115	100	118	370	561	638	e200	152	e128
15	197	164	144	e111	100	127	441	541	596	e196	145	e115
16	191	177	149	e112	100	136	503	505	558	e193	138	e109
17	206	180	143	e113	100	143	525	516	527	e205	146	e107
18	204	161	e140	e114	95	148	543	638	484	e210	152	e120
19	208	164	146	115	96	136	564	710	443	e233	138	162
20	215	161	145	117	105	135	487	707	409	e249	130	150
21	210	164	143	117	102	132	423	676	385	e258	e141	146
22	200	166	e141	117	101	118	389	679	367	e256	e141	147
23	196	159	e135	107	98	121	347	792	334	e225	e130	146
24	199	167	138	e104	e100	131	334	839	310	e202	e118	153
25	198	170	136	e101	e105	140	324	898	327	e189	e112	149
26	199	149	e133	e107	93	133	306	985	292	e181	e109	144
27	202	147	e131	e111	101	126	294	1090	267	e177	e117	148
28	183	158	139	e116	96	118	295	1100	244	e192	e127	154
29	208	158	137	119	---	125	329	1070	240	e270	e125	164
30	197	156	133	123	---	112	425	1010	238	e240	e115	160
31	196	---	136	122	---	124	---	884	---	218	e110	---
TOTAL	6154	5194	4427	3674	2906	3690	9645	25725	17357	6531	4542	3968
MEAN	199	173	143	119	104	119	322	830	579	211	147	132
MAX	245	197	159	132	113	148	564	1100	1060	270	202	164
MIN	177	147	131	101	93	96	125	505	238	177	109	107
ACFT	12210	10300	8780	7290	5760	7320	19130	51030	34430	12950	9010	7870
CAL YR 1984	TOTAL	109076	MEAN	298	MAX	1790	MIN	92	ACFT	216400		
WTR YR 1985	TOTAL	93813	MEAN	257	MAX	1100	MIN	93	ACFT	186100		

e Estimated.

GREEN RIVER BASIN

09278000 SOUTH FORK ROCK CREEK NEAR HANNA, UT

LOCATION.--Lat 40°32'54", long 110°41'37", in SW1/4SW1/4SW1/4 sec.21, T.2, N., R.7 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 175 ft upstream from road bridge, 0.5 mi upstream from mouth, and 10.6 mi northeast of Hanna.

DRAINAGE AREA.--15.7 mi².

PERIOD OF RECORD.--August 1953 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,860 ft from river-profile map. Prior to July 23, 1974, at site 75 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Pipeline capacity approximately 1.5 ft³/s that provides water for small hydroelectric plant and irrigation for dude ranch lying below station, diverts water from creek a short distance above station at times in summer months.

AVERAGE DISCHARGE.--32 years, 13.4 ft³/s, 9,710 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 189 ft³/s June 16, 1975, gage height, 2.43 ft; minimum not determined, occurred during winter period of no gage height record.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 28	2000	63	2.09	June 9	2200	*81	2.24

Minimum daily, 2.3 ft³/s Feb. 23, 24, Mar. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	e6.2	4.0	e3.0	e2.5	2.5	2.7	30	47	29	17	9.8
2	16	8.6	4.6	e3.0	e2.5	2.4	3.2	36	43	27	17	9.8
3	14	8.5	4.2	e3.0	e2.7	2.4	3.7	42	42	26	16	9.9
4	12	8.1	3.9	e3.0	e3.0	2.6	3.7	42	41	26	15	9.7
5	12	e5.9	3.8	3.5	e3.4	2.6	3.5	41	42	25	15	9.4
6	12	8.4	3.8	3.9	e3.4	2.4	4.1	41	49	21	15	9.2
7	11	8.4	3.9	3.1	3.2	2.4	4.8	43	56	20	15	9.4
8	11	8.3	4.0	e3.0	2.7	2.5	5.9	46	61	19	14	9.4
9	11	e7.0	3.8	e2.9	2.5	2.6	7.4	46	71	19	14	9.3
10	11	e5.0	3.8	e2.8	2.4	2.6	8.8	46	75	19	14	9.0
11	10	e7.0	4.1	e2.9	2.4	2.6	9.9	42	66	19	13	12
12	13	8.4	4.0	3.2	2.5	2.6	11	38	60	21	13	9.9
13	11	8.5	3.9	3.4	2.4	2.8	12	36	59	20	12	9.3
14	11	e8.0	4.2	3.3	2.4	3.0	17	36	57	19	12	9.3
15	7.5	e6.0	3.9	3.2	2.4	2.4	20	36	56	18	12	9.4
16	e7.0	e5.0	3.8	2.9	2.4	2.4	22	36	56	17	12	9.2
17	e6.0	e5.0	4.1	3.0	2.4	2.4	22	37	53	19	11	8.4
18	e6.0	e5.0	3.8	3.0	2.4	2.4	23	39	51	19	12	8.8
19	e6.0	e5.0	3.8	3.1	2.4	2.3	22	39	59	20	12	18
20	e6.0	e5.8	3.8	3.1	2.4	2.3	18	38	56	19	12	11
21	e5.7	e5.7	3.8	3.1	2.4	2.4	16	38	54	19	11	9.6
22	e5.4	4.7	4.3	e3.0	2.4	3.1	14	40	50	19	11	9.5
23	e5.4	4.4	3.6	e3.0	2.3	2.7	11	42	49	21	11	9.7
24	e5.4	4.3	3.5	e3.0	2.3	2.5	12	42	47	20	11	9.8
25	e6.0	4.4	3.6	3.1	2.4	2.5	12	45	48	18	11	9.4
26	e6.4	4.2	3.5	3.2	2.7	2.4	11	49	42	17	11	9.4
27	e6.8	4.3	3.5	3.1	2.6	3.6	10	54	38	16	11	9.3
28	e7.0	4.3	3.5	2.8	2.5	3.2	13	58	36	20	11	8.9
29	8.6	4.3	3.4	2.7	---	2.6	18	57	34	24	10	8.5
30	8.3	4.1	3.4	2.7	---	2.5	25	56	32	20	9.9	7.5
31	8.6	---	3.3	e2.6	---	2.4	---	51	---	18	9.9	---
TOTAL	279.1	182.8	118.6	94.6	72.0	80.1	366.7	1322	1530	634	390.8	291.8
MEAN	9.00	6.09	3.83	3.05	2.57	2.58	12.2	42.6	51.0	20.5	12.6	9.73
MAX	16	8.6	4.6	3.9	3.4	3.6	25	58	75	29	17	18
MIN	5.4	4.1	3.3	2.6	2.3	2.3	2.7	30	32	16	9.9	7.5
ACFT	554	363	235	188	143	159	727	2620	3030	1260	775	579

CAL YR 1984	TOTAL	5444.7	MEAN	14.9	MAX	81	MIN	2.4	ACFT	10800
WTR YR 1985	TOTAL	5362.5	MEAN	14.7	MAX	75	MIN	2.3	ACFT	10640

e Estimated.

GREEN RIVER BASIN

77

09278500 ROCK CREEK NEAR HANNA, UT

LOCATION.--Lat 40°32'44", long 110°39'20", in NE1/4NE1/4NE1/4 sec.26, T.2 N., R.7 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 1.2 mi downstream from South Fork and 11.5 mi northeast of Hanna.

DRAINAGE AREA.--122 mi².

PERIOD OF RECORD.--July 1949 to September 1969, August 1974 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,620 ft from river-profile map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--31 years (1950-69, 1975-85), 154 ft³/s, 111,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,570 ft³/s June 18, 1983, gage height, 7.98 ft, maximum gage height, 8.60 ft June 13, 1953; minimum recorded, 4.4 ft³/s Feb. 7, 1977, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 26	2400	1,240	5.99	June 8	2300	*1,550	6.65

Minimum daily discharge, 22 ft³/s Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	e76	e48	e43	e24	e25	e36	265	593	212	e155	e64
2	118	e70	e47	e43	e22	e26	e44	313	499	204	e140	e64
3	113	e68	e52	e44	e23	e26	e48	414	490	197	e130	e66
4	104	e66	e49	e46	e24	e26	e46	508	504	193	e122	e65
5	95	e65	e48	e45	e24	e26	e43	553	645	185	e115	e64
6	90	e64	e50	e48	e24	e27	e44	533	749	179	e111	e62
7	85	e63	e52	e48	e25	e27	e50	534	1000	173	e107	e62
8	82	e63	e53	e42	e25	e27	e56	597	1270	170	e102	e63
9	e82	e62	e54	e42	e26	e28	e62	620	1180	165	e101	e63
10	e85	e60	e52	e40	e27	e28	e72	609	1030	162	e98	e62
11	e87	e68	e53	e39	e27	e28	e82	500	792	166	e96	e66
12	e91	e67	e54	e38	e26	e29	e96	429	699	198	e94	e100
13	e88	e64	e52	e36	e26	e26	e110	370	676	199	e93	e81
14	e93	e60	e51	e38	e26	e26	e143	340	643	166	e92	e79
15	e80	e61	e51	e37	e27	e27	e162	343	609	156	e98	e77
16	e73	e68	e51	e37	e26	e26	185	342	584	157	e94	e72
17	e86	e64	e49	e36	e26	e27	194	389	532	155	e86	56
18	e92	e59	e52	e37	e26	e28	200	477	470	160	e84	65
19	e84	e65	e53	e38	e26	e29	197	496	431	210	e83	123
20	e81	e63	e53	e35	e26	e29	163	461	388	187	e82	93
21	e79	e61	e50	e36	e28	e28	148	438	366	201	e80	82
22	e76	e59	e50	e35	e27	e30	140	471	329	204	e76	75
23	e78	e58	e50	e35	e26	e35	129	604	309	203	e74	68
24	e80	e57	e48	e33	e25	e32	127	679	305	e162	e72	65
25	e74	e55	e47	e32	e25	e31	125	806	381	e149	e70	62
26	e73	e52	e49	e33	e25	e30	118	819	321	e142	e70	60
27	e72	e48	e49	e35	e25	e30	115	967	276	e136	e72	58
28	e71	e50	e50	e37	e26	e32	124	1060	245	e144	e71	57
29	e70	e51	e51	e35	---	e33	149	1030	232	e215	e68	55
30	e69	e50	e50	e30	---	e34	201	886	219	e195	e68	54
31	e68	---	e46	e29	---	e35	---	725	---	e167	e66	---
TOTAL	2610	1837	1564	1182	713	891	3409	17578	16767	5512	2870	2083
MEAN	84.2	61.2	50.5	38.1	25.5	28.7	114	567	559	178	92.6	69.4
MAX	118	76	54	48	28	35	201	1060	1270	215	155	123
MIN	68	48	46	29	22	25	36	265	219	136	66	54
ACFT	5180	3640	3100	2340	1410	1770	6760	34870	33260	10930	5690	4130
CAL YR 1984	TOTAL	65253	MEAN	178	MAX	1440	MIN	21	ACFT	129400		
WTR YR 1985	TOTAL	57016	MEAN	156	MAX	1270	MIN	22	ACFT	113100		

e Estimated.

GREEN RIVER BASIN

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°29'36", long 110°34'39", in SE1/4NW1/4SW1/4 sec.9, T.1 N., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank at Lower Stillwater damsite "B", 0.1 mi upstream from Corral Creek, 6.8 mi downstream from South Fork, and 11.9 mi northwest of Mountain Home.

DRAINAGE AREA.--147 mi².

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,250 ft from river-profile map. Prior to Apr. 12, 1939, non-recording gage at site 300 ft upstream at different datum.

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

AVERAGE DISCHARGE.--48 years, 173 ft³/s, 125,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft³/s June 18, 1971, gage height, 5.98 ft; maximum gage height, 6.02 ft June 14, 1953; minimum recorded, 7 ft³/s Mar. 13, 1940, Mar. 20, 1942 (probably caused by ice jams above station).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,250 ft³/s June 8; peak discharges greater than base discharge of 1,200 ft³/s not determined; minimum daily discharge, 46 ft³/s, Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	88	66	59	46	51	57	278	e700	242	178	77
2	155	95	65	59	54	49	66	349	530	233	164	78
3	154	89	72	62	55	49	72	440	525	224	155	81
4	140	90	67	64	56	53	68	535	535	218	146	80
5	129	86	66	64	53	52	64	580	632	211	141	76
6	123	88	67	67	54	50	68	580	e780	203	134	73
7	123	86	72	66	54	51	75	550	e1080	198	129	75
8	114	85	74	65	54	50	85	611	e1250	193	124	77
9	111	84	75	63	54	50	103	637	e1200	189	119	76
10	112	e82	72	59	55	50	115	632	e1100	183	116	73
11	110	e90	74	61	54	52	127	550	e950	189	114	91
12	132	91	74	60	54	53	137	448	e800	218	115	117
13	122	88	72	e58	54	52	145	398	682	223	111	96
14	140	e82	69	e58	54	54	169	366	670	193	111	94
15	99	e83	70	e57	53	52	204	372	637	177	116	91
16	96	94	71	e58	53	53	234	360	616	175	107	85
17	115	87	67	e60	52	53	243	407	580	186	102	79
18	e130	e78	72	e60	52	53	251	479	525	183	102	83
19	110	e90	74	e62	52	53	250	511	479	228	100	157
20	108	86	74	e63	51	55	212	484	440	215	95	122
21	106	78	69	e64	52	54	190	461	415	230	94	104
22	101	78	70	e67	53	55	179	493	375	228	92	97
23	104	81	70	e67	54	55	162	616	357	228	88	90
24	107	79	67	e63	52	56	158	e760	342	204	87	84
25	100	75	65	e58	50	58	154	e830	411	179	85	83
26	97	70	69	e59	55	e55	146	e910	368	168	85	81
27	96	67	70	e62	51	e55	138	e980	328	160	87	80
28	96	69	71	e65	58	55	146	e1080	291	172	85	79
29	95	70	71	56	---	54	167	e1020	270	262	82	74
30	91	68	70	53	---	56	227	e950	252	235	80	72
31	92	---	65	49	---	e55	---	e800	---	200	78	---
TOTAL	3527	2477	2170	1888	1489	1643	4412	18467	18120	6347	3422	2625
MEAN	114	82.6	70.0	60.9	53.2	53.0	147	596	604	205	110	87.5
MAX	155	95	75	67	58	58	251	1080	1250	262	178	157
MIN	91	67	65	49	46	49	57	278	252	160	78	72
ACFT	7000	4910	4300	3740	2950	3260	8750	36630	35940	12590	6790	5210
CAL YR 1984	TOTAL	83305	MEAN	228	MAX	1610	MIN	46	ACFT	165200		
WTR YR 1985	TOTAL	66587	MEAN	182	MAX	1250	MIN	46	ACFT	132100		

e Estimated.

GREEN RIVER BASIN

79

09279100 ROCK CREEK NEAR TALMAGE, UT

LOCATION.--Lat 40°18'40", long 110°29'36", in SE1/4NE1/4NW1/4 sec.18, T.2 S., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 1.5 mi upstream from mouth, 4.1 mi southwest of Talmage and 11.1 mi northwest of Duchesne.

DRAINAGE AREA.--238 mi².

PERIOD OF RECORD.--October 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,119.3 ft NGVD of 1929.

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

AVERAGE DISCHARGE.--22 years, 185 ft³/s, 134,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,320 ft³/s July 29, 1968, gage height, 4.37 ft; minimum recorded, 6.0 ft³/s Nov. 28, 1976, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 9	0600	*1,230	*3.27	No other peak greater than base discharge.			

Minimum daily, 53 ft³/s, Jan. 31-Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	90	e70	e68	e53	e62	60	246	594	247	188	75
2	175	106	e70	e67	e57	e64	73	291	509	238	174	77
3	175	105	e75	e66	e60	e63	81	375	484	232	164	81
4	157	96	e73	e68	e63	e59	79	448	491	226	157	83
5	145	88	e70	e71	e59	e55	66	505	589	219	150	78
6	138	102	e72	e73	e58	e57	73	503	652	212	144	75
7	136	93	e76	e74	e61	e59	78	475	808	209	135	76
8	129	95	e78	e75	e63	e62	88	544	1010	203	130	80
9	124	97	e79	e76	e64	e66	105	578	1040	202	127	77
10	124	89	e77	e72	e65	e69	116	600	968	195	122	74
11	122	110	e76	e68	e64	e71	129	514	789	219	119	95
12	137	100	e75	e66	e58	e67	140	432	677	216	117	134
13	136	97	e73	e64	e57	e63	147	380	657	222	121	104
14	148	97	e72	e62	e59	e60	165	354	625	202	109	100
15	115	80	e73	e61	e60	e63	192	359	591	189	120	97
16	101	98	e77	e64	e59	e68	219	356	570	186	110	90
17	120	98	e79	e66	e59	e66	226	385	545	196	104	84
18	134	85	e79	e67	e58	e70	235	473	486	194	105	86
19	120	82	e79	e69	e56	e68	244	505	445	224	102	166
20	121	83	e78	e71	e58	e65	207	475	412	231	98	142
21	115	86	e77	e74	e59	e62	186	453	388	236	96	118
22	111	87	e73	e75	e60	55	174	451	357	235	92	107
23	107	84	e73	e72	e62	60	156	576	336	228	88	101
24	118	88	e73	e69	e60	65	155	622	325	210	84	94
25	109	90	e72	e65	e58	66	155	679	391	187	83	92
26	109	72	e74	e63	e61	62	143	743	366	177	84	90
27	109	73	e75	e67	e62	62	138	838	326	167	89	87
28	92	e72	e76	e70	e60	57	145	893	291	165	87	84
29	113	e72	e77	e65	---	60	158	882	273	256	80	83
30	102	e72	e76	e59	---	55	207	801	258	243	77	82
31	103	---	e72	e53	---	60	---	684	---	212	76	---
TOTAL	3884	2687	2319	2100	1673	1941	4340	16420	16253	6578	3532	2812
MEAN	125	89.6	74.8	67.7	59.8	62.6	145	530	542	212	114	93.7
MAX	175	110	79	76	65	71	244	893	1040	256	188	166
MIN	92	72	70	53	53	55	60	246	258	165	76	74
ACFT	7700	5330	4600	4170	3320	3850	8610	32570	32240	13050	7010	5580
CAL YR 1984	TOTAL	84548	MEAN	231	MAX	1420	MIN	57	ACFT	167700		
WTR YR 1985	TOTAL	64539	MEAN	177	MAX	1040	MIN	53	ACFT	128000		

e Estimated.

GREEN RIVER BASIN

09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UT

LOCATION.--Lat 40°16'14", long 110°26'31", in NE1/4NW1/4 sec.34, T.2 S., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 50 ft downstream from bridge on State Highway 35, 1.7 mi upstream from Knight diversion dam, 3.9 mi downstream from Rock Creek, and 7.7 mi north-northwest of Duchesne.

DRAINAGE AREA.--623 mi².

PERIOD OF RECORD.--April 1970 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,840 ft from topographic map. Prior to Apr. 25, 1973, at site 150 ft upstream at different gage datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Several diversions above station for irrigation, including a transmountain diversion to the Great Basin through Duchesne Tunnel.

AVERAGE DISCHARGE.--15 years, 377 ft³/s, 273,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,360 ft³/s June 21, 1983, gage height, 7.44 ft; minimum, 37 ft³/s Jan. 31, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 10	1900	1,800	5.55	July 11	2300	*3,730	*6.78
May 28	0630	2,320	5.99	July 22	1700	1,420	5.35
June 9	0730	2,600	6.23				

Minimum discharge, 106 ft³/s Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	331	275	220	e155	137	165	200	755	1430	417	436	e158
2	432	298	181	145	171	170	249	947	1290	386	439	e157
3	385	298	192	148	175	163	288	1150	1160	371	416	e165
4	353	275	192	163	171	139	296	1350	1160	360	403	e176
5	317	249	187	173	168	162	241	1500	1290	354	398	e171
6	298	270	170	201	168	177	257	1460	1390	336	362	e153
7	288	262	180	218	185	149	277	1470	1660	330	332	e156
8	284	262	201	214	190	165	299	1590	2170	322	297	e166
9	275	266	219	206	160	168	348	1640	2200	311	284	e163
10	274	257	214	185	175	184	401	1690	1980	309	260	e151
11	261	288	221	176	181	203	426	1540	1610	591	270	e193
12	284	279	208	178	178	223	457	1280	1370	549	272	e288
13	302	284	200	157	171	188	466	1090	1300	438	256	e244
14	317	270	185	168	166	195	517	967	1220	392	241	e222
15	275	224	180	189	161	218	602	936	1150	420	235	e206
16	262	244	e183	193	145	228	694	895	1100	381	e218	e193
17	307	259	e183	185	150	237	736	893	1040	403	e221	e185
18	302	221	e182	201	179	251	766	1070	939	397	e228	e200
19	298	226	e190	185	e170	235	803	1180	871	437	e214	e322
20	298	219	e192	167	e187	229	701	1160	793	555	e204	e286
21	298	225	e183	168	e185	228	607	1110	753	577	e211	e258
22	302	230	e179	169	e180	200	558	1080	680	678	e207	e248
23	284	215	e183	148	155	202	493	1300	623	575	e193	e241
24	298	231	e182	143	153	227	474	1410	563	533	e175	e241
25	288	244	e175	157	171	240	449	1510	655	475	e169	e236
26	307	191	e181	162	138	224	438	1680	630	418	e166	e228
27	307	180	e179	174	156	216	415	1950	556	396	e179	e229
28	262	215	e181	169	150	192	418	2100	494	386	e186	e232
29	312	218	e188	169	---	209	457	2060	456	578	e176	e241
30	298	209	e174	156	---	178	593	1860	435	554	e168	e236
31	302	---	e162	141	---	213	---	1610	---	494	e166	---
TOTAL	9401	7384	5847	5363	4676	6178	13926	42233	32968	13721	7982	6345
MEAN	303	246	189	173	167	199	464	1362	1099	443	257	212
MAX	432	298	221	218	190	251	803	2100	2200	678	439	322
MIN	261	180	162	141	137	139	200	755	435	309	166	151
ACFT	18650	14650	11600	10640	9270	12250	27620	83770	65390	27220	15830	12590
CAL YR 1984	TOTAL	195907	MEAN	535	MAX	3230	MIN	160	ACFT	388600		
WTR YR 1985	TOTAL	156024	MEAN	427	MAX	2200	MIN	137	ACFT	309500		

e Estimated.

GREEN RIVER BASIN

81

09285000 STRAWBERRY RIVER NEAR SOLDIER SPRINGS, UT

LOCATION.--Lat 40°08'00", long 111°01'27", in SE1/4SW1/4NW1/4 sec.16, T.2 S., R.10 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 300 ft below Soldier Creek Dam, 1.5 mi upstream from Willow Creek, and 3.4 mi south of Soldier Springs.

DRAINAGE AREA.--213 mi², Includes approximately 170 mi² tributary to Strawberry Reservoir, which includes area above diversion dams on Indian and Trail Hollow Creeks.

PERIOD OF RECORD.--October 1942 to September 1956, October 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,360 ft from topographic map. Prior to June 1, 1971, water-stage recorder at site about 0.2 mi upstream at different datum. From June 1, 1971 to Aug. 8, 1974, at site about 0.8 mi downstream at different datum. From Aug. 25, 1983 to Sept. 10, 1985 at site about 300 ft downstream at different datum. From Sept. 10, 1985 to present at site 300 ft below Soldier Creek Dam at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Strawberry Reservoir since July 14, 1912. Capacity, 1,106,500 acre-ft since June 30, 1973; 283,000 acre-ft prior to June 30, 1973. New earthfilled dam located 7 mi below old dam was completed in September 1972 and storage began June 30, 1973. The elevation of the new reservoir reached the elevation of the old reservoir on March 15 and the old dam was breached on June 6, 1985. Water Hollow Tunnel will divert 600 ft³/s to the reservoir during spring runoff when series of tunnels and small reservoirs are completed on Rock Creek, West Fork Duchesne River, and Currant Creek. Several old transmountain diversions upstream to the reservoir. Transmountain diversions from the reservoir and upstream tributaries to the Great Basin.

AVERAGE DISCHARGE.--23 years (1943-56, 1964-72), 31.0 ft³/s, 22,500 acre-ft/yr prior to completion of Soldier Creek Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,020 ft³/s May 4, 1952, gage height, 3.84 ft, site and datum then in use, from rating curve extended above 550 ft³/s; minimum daily, 0.23 ft³/s July and August 1973.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 234 ft³/s Oct. 1; minimum daily, 7.3 ft³/s Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	234	e13	12	27	21	13	15	25	23	23	30	30
2	232	e13	12	27	27	13	20	26	23	24	31	30
3	220	e13	12	27	27	13	25	26	23	24	31	18
4	227	e13	13	26	27	13	25	25	23	25	31	7.3
5	223	e13	13	28	27	14	24	25	23	24	32	8.0
6	206	e13	13	28	18	14	24	25	23	23	30	8.7
7	206	e13	13	28	13	14	26	24	23	23	29	11
8	207	e13	18	28	14	14	25	24	23	24	29	25
9	205	13	27	27	14	14	24	23	23	24	30	26
10	e205	13	27	26	14	14	24	23	23	24	30	25
11	e205	13	27	26	14	14	24	23	24	25	27	26
12	e160	13	18	25	14	14	23	23	23	25	12	26
13	e49	13	12	26	13	13	23	23	23	25	13	26
14	e70	13	12	26	14	13	24	23	22	26	13	26
15	e70	12	12	26	14	13	24	24	23	27	14	26
16	e70	12	12	26	14	14	25	24	24	27	15	25
17	e70	12	13	26	14	14	25	24	23	27	26	25
18	e70	12	13	26	13	14	25	24	23	27	26	25
19	e42	13	19	26	13	14	24	24	23	27	27	25
20	e13	13	27	26	14	13	24	23	23	24	27	25
21	e13	12	27	26	14	13	24	23	23	24	28	26
22	e13	11	27	26	14	12	24	22	23	26	27	26
23	e13	11	28	26	14	15	23	22	23	28	26	25
24	e13	11	28	27	14	15	23	22	23	29	27	24
25	e13	11	28	27	14	16	20	23	23	29	27	23
26	e13	11	28	28	14	16	23	23	22	30	28	24
27	e13	11	27	28	13	16	23	23	23	30	30	24
28	e13	12	28	28	13	16	23	23	22	30	29	23
29	e13	12	28	27	---	15	23	23	22	30	29	23
30	e13	12	28	26	---	15	24	22	23	29	30	23
31	e13	---	27	26	---	15	---	23	---	30	30	---
TOTAL	3127	370	629	826	449	436	703	730	688	813	814	685.0
MEAN	101	12.3	20.3	26.6	16.0	14.1	23.4	23.5	22.9	26.2	26.3	22.8
MAX	234	13	28	28	27	16	26	26	24	30	32	30
MIN	13	11	12	25	13	12	15	22	22	23	12	7.3
ACFT	6200	734	1250	1640	891	865	1390	1450	1360	1610	1610	1360
CAL YR 1984	TOTAL	50816	MEAN	139	MAX	268	MIN	11	ACFT	100800		
WTR YR 1985	TOTAL	10270.0	MEAN	28.1	MAX	234	MIN	7.3	ACFT	20370		

e Estimated.

GREEN RIVER BASIN

09286700 CURRANT CREEK BELOW CURRANT CREEK DAM, NEAR FRUITLAND, UT

LOCATION.--Lat 40°19'51", long 111°02'56", in NE1/4SE1/4SE1/4 sec.6, T.2 S., R.10 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 700 ft below Currant Creek Dam, 1.0 mi above Red Ledge Hollow, and 14 mi northwest of Fruitland.

DRAINAGE AREA.--48.0 mi².

PERIOD OF RECORD.--October 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,550 ft from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Currant Creek Reservoir, total capacity, 15,670 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 558 ft³/s May 14, 1984, gage height, 5.58 ft; minimum daily, 0.63 ft³/s April 10, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 269 ft³/s Apr. 16, gage height, 3.82 ft; minimum daily, 0.63 ft³/s Apr. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	3.7	21	22	15	13	3.8	29	23	22	11	7.4
2	7.5	3.6	22	22	15	13	4.4	30	25	22	11	7.4
3	7.4	3.8	21	22	15	14	4.8	28	25	22	11	5.7
4	6.9	3.7	18	21	15	13	4.7	28	25	22	11	4.7
5	6.9	3.6	16	20	15	13	6.7	24	25	22	8.1	4.7
6	5.3	3.5	16	19	15	14	26	22	25	22	7.5	6.2
7	3.5	3.5	16	18	15	14	.86	22	25	22	9.4	13
8	3.4	3.6	15	18	15	14	.86	22	23	22	9.5	12
9	3.5	3.6	16	18	15	15	.79	22	22	23	11	5.8
10	3.5	3.5	16	18	15	15	.63	23	22	22	11	3.1
11	3.5	3.5	16	18	15	15	27	22	22	22	11	3.4
12	3.5	3.4	16	18	15	15	92	22	22	22	6.4	3.3
13	3.4	3.3	16	18	15	15	100	22	21	22	5.2	3.3
14	3.5	3.3	18	18	15	15	132	22	21	23	5.3	13
15	3.3	3.3	19	18	15	11	146	22	21	23	4.4	19
16	3.3	3.7	19	18	15	4.5	208	22	21	23	6.7	13
17	3.3	3.8	21	18	15	3.2	166	22	22	22	9.9	4.5
18	3.3	3.6	22	16	15	3.4	236	22	22	22	9.9	5.5
19	3.3	3.6	22	15	15	3.6	156	22	22	23	6.2	12
20	3.4	3.6	22	15	15	3.4	88	22	22	23	3.8	12
21	3.4	3.6	22	15	15	3.4	100	22	22	22	3.8	12
22	3.6	3.6	22	15	14	3.5	67	22	22	22	3.8	12
23	3.8	3.6	22	15	14	3.5	24	22	22	22	3.8	7.0
24	3.8	3.5	22	15	14	3.6	48	22	22	22	6.6	4.9
25	3.8	3.5	22	15	14	3.7	15	23	22	20	8.0	4.9
26	3.9	10	22	15	13	3.6	6.2	23	22	11	4.4	5.1
27	3.9	17	22	15	13	3.6	29	23	22	11	2.7	5.7
28	3.8	17	22	15	13	3.5	29	23	22	11	3.1	9.9
29	3.7	17	22	15	---	3.5	30	22	22	11	3.7	8.9
30	3.6	19	22	15	---	3.4	30	22	22	11	5.4	5.4
31	3.7	---	22	15	---	3.4	---	22	---	11	7.4	---
TOTAL	130.1	169.0	610	535	410	265.8	1782.74	716	676	620	222.0	234.8
MEAN	4.20	5.63	19.7	17.3	14.6	8.57	59.4	23.1	22.5	20.0	7.16	7.83
MAX	7.5	19	22	22	15	15	236	30	25	23	11	19
MIN	3.3	3.3	15	15	13	3.2	.63	22	21	11	2.7	3.1
ACFT	258	335	1210	1060	813	527	3540	1420	1340	1230	440	466
CAL YR 1984	TOTAL	19701.1	MEAN	53.8	MAX	549	MIN	3.3	ACFT	39080		
WTR YR 1985	TOTAL	6371.44	MEAN	17.5	MAX	236	MIN	.63	ACFT	12640		

GREEN RIVER BASIN

83

09288000 CURRANT CREEK NEAR FRUITLAND, UT

LOCATION.--Lat 40°12'01", long 110°54'25", in NE1/4SE1/4SW1/4 sec.21, T.3 S., R.9 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 150 ft downstream from Deep Creek, 150 ft upstream from bridge on U.S. Highway 40 and 3.5 mi southwest of Fruitland.

DRAINAGE AREA.--140 mi².

PERIOD OF RECORD.--October 1934 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 6,670 ft from topographic map. Aug. 6, 1952 to Nov. 8, 1966, water-stage recorder at site 150 ft downstream at datum 1.30 ft lower. See WSP 1733 for history of changes prior to Aug. 6, 1952.

REMARKS.--Records good except for estimated daily discharges, which are fair. Currant Creek feeder canal, constructed by the Bureau of Reclamation in 1936, diverts water from headwaters of Currant Creek to Strawberry Reservoir, from which it is diverted through Strawberry Tunnel to the Great Basin for irrigation in Strawberry Valley project. Beginning in 1962, Deep Creek was diverted intermittently into private fish ponds and entered Currant Creek 400 ft below gage. However, since approximately 1976 when the upstream pond washed out Deep Creek has been entering Currant Creek 30 ft above gage. Flow partially regulated by Currant Creek Reservoir 15 miles upstream, beginning Oct. 4, 1982. Total capacity, 15,670 acre-ft.

AVERAGE DISCHARGE.--48 years (water years 1935-82), 46.0 ft³/s, 33,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,260 ft³/s May 4, 1952, gage height, 2.72 ft, site and datum then in use; maximum gage height, 5.92 ft, Jan. 27, 1974, backwater from ice; minimum recorded, 3.6 ft³/s Aug. 9, 10, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 345 ft³/s Apr. 18, gage height, 2.80 ft; minimum, 27 ft³/s Aug. 30, 31. Due to development of upstream regulation, peak discharge above base will not be determined.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	41	55	49	36	48	48	80	71	64	45	30
2	58	41	44	42	42	48	55	84	72	64	45	31
3	53	42	53	42	50	48	60	86	72	61	45	31
4	48	42	48	44	53	44	62	85	72	61	44	32
5	44	40	45	46	46	45	56	81	69	62	44	32
6	42	40	45	56	50	45	75	77	65	61	41	33
7	40	40	52	56	48	44	60	77	64	62	41	36
8	39	41	55	53	49	44	60	75	64	62	42	39
9	39	42	56	54	49	44	63	73	63	59	41	38
10	39	39	55	48	43	47	63	86	65	60	42	33
11	39	42	55	45	43	52	65	83	62	60	43	37
12	39	41	55	44	53	50	125	79	62	61	43	39
13	39	41	51	38	51	48	134	75	62	65	39	34
14	39	41	46	42	50	49	162	73	64	62	38	34
15	39	38	50	51	51	49	168	72	64	63	38	41
16	39	40	57	50	52	45	233	71	64	71	37	e40
17	41	41	43	55	51	41	197	69	64	72	37	e35
18	43	39	53	55	48	41	268	72	62	70	39	e38
19	40	40	59	54	49	45	238	73	63	68	40	48
20	40	39	59	51	50	46	142	74	64	67	34	43
21	40	40	55	50	48	44	152	78	59	71	33	42
22	39	40	52	50	49	41	132	73	58	70	31	42
23	39	40	55	44	48	41	77	72	59	70	31	41
24	39	41	55	39	48	45	89	72	58	67	30	37
25	39	41	44	45	48	47	73	72	70	62	31	36
26	39	31	46	50	46	46	59	70	72	55	32	35
27	41	40	59	54	47	46	67	69	68	50	30	34
28	40	53	62	50	46	44	71	69	65	45	29	35
29	40	55	55	51	---	44	73	68	65	45	29	37
30	40	55	52	43	---	42	77	68	65	45	28	37
31	41	---	54	42	---	44	---	68	---	45	28	---
TOTAL	1284	1246	1625	1493	1344	1407	3204	2324	1947	1900	1150	1100
MEAN	41.4	41.5	52.4	48.2	48.0	45.4	107	75.0	64.9	61.3	37.1	36.7
MAX	58	55	62	56	53	52	268	86	72	72	45	48
MIN	39	31	43	38	36	41	48	68	58	45	28	30
ACFT	2550	2470	3220	2960	2670	2790	6360	4610	3860	3770	2280	2180
CAL YR 1984	TOTAL 39130		MEAN 107	MAX 676		MIN 31	ACFT 77610					
WTR YR 1985	TOTAL 20024		MEAN 54.9	MAX 268		MIN 28	ACFT 39720					

e Estimated.

GREEN RIVER BASIN

09288150 WEST FORK AVINTAQUIN CREEK NEAR FRUITLAND, UT

LOCATION.--Lat 39°59'35", long 110°48'51", in SE1/4NW1/4NW1/4 sec.5, T.6 S., R.8 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060004, 0.2 mi upstream from mouth, and 15.2 mi south of Fruitland.

DRAINAGE AREA.--56.1 mi².

PERIOD OF RECORD.--June 1964 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,790 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. One small diversion above station, constructed in 1976 for irrigation, may divert small quantities of water intermittently during the summer months.

AVERAGE DISCHARGE.--21 years, 15.9 ft³/s, 11,520 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,830 ft³/s Aug. 22, 1971, gage height, 5.40 ft, from rating curve extended above 320 ft³/s; minimum recorded, 0.2 ft³/s Jan. 24, 1965, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 80 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 5	1430	*92	*2.20	No other peak greater than base discharge.			

Minimum daily discharge, 0.34 ft³/s Sept. 17-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	3.7	2.5	e2.5	e1.9	e3.2	10	42	38	8.9	7.4	1.3
2	5.9	3.6	2.8	e2.5	e2.0	3.3	15	53	35	8.3	6.6	1.3
3	5.9	3.6	2.5	e2.6	e2.2	3.4	20	75	33	7.7	6.2	1.3
4	5.4	3.6	2.5	e2.6	e2.4	e3.3	21	78	33	7.3	5.8	1.4
5	5.0	3.6	2.5	e2.7	e2.5	3.3	20	82	34	7.5	5.3	1.4
6	4.6	3.7	2.6	e2.8	2.6	3.7	20	73	33	7.5	4.8	1.2
7	4.2	3.7	2.6	e2.9	2.7	3.6	21	64	32	8.3	4.5	1.2
8	4.2	3.7	2.7	e2.9	2.7	3.6	23	64	30	8.0	4.6	1.2
9	4.2	3.7	2.8	e2.8	2.7	3.6	25	61	29	8.1	3.5	1.2
10	4.2	3.5	e2.8	e2.7	e2.7	3.8	28	64	27	9.7	3.5	1.2
11	4.0	3.4	e2.7	e2.4	e2.8	4.3	26	55	26	9.1	3.5	1.1
12	4.5	3.3	e2.6	e2.2	2.9	4.2	29	47	23	8.0	3.4	.70
13	4.4	3.2	e2.7	e2.2	3.1	4.0	34	40	22	7.9	3.5	3.0
14	4.5	2.9	e2.5	e2.1	3.2	4.3	35	38	18	7.0	3.3	2.0
15	4.2	2.8	e2.4	e2.2	3.2	4.7	37	36	17	6.2	3.1	.69
16	3.8	3.0	e2.6	e2.3	3.2	5.3	39	35	17	4.8	3.0	.42
17	4.0	2.7	e2.4	e2.5	3.1	6.2	52	35	16	5.7	2.4	.41
18	4.1	2.7	e2.6	e2.5	3.1	7.1	70	40	15	11	2.1	.36
19	4.3	2.7	e2.4	e2.6	3.1	8.4	54	41	14	8.7	2.1	.34
20	4.4	2.7	e2.7	e2.5	3.2	9.5	47	41	13	11	2.1	.37
21	4.5	2.7	e2.5	e2.5	3.2	6.7	44	50	13	12	2.0	1.1
22	4.1	2.6	e2.4	e2.4	3.0	6.4	41	60	12	11	1.8	1.8
23	3.7	2.5	e2.4	e2.3	3.1	8.0	38	57	11	10	1.8	1.7
24	3.5	2.5	e2.5	e2.1	3.2	8.7	38	57	13	10	1.8	1.7
25	3.5	2.5	e2.7	e2.0	3.2	7.5	38	56	15	9.9	1.7	1.7
26	3.6	2.6	e2.9	e1.9	e3.2	9.4	37	56	13	9.1	1.5	1.9
27	3.7	2.5	e2.9	e2.0	3.2	8.8	34	53	11	8.4	1.5	1.9
28	3.6	2.5	e2.9	e2.1	e3.2	8.6	33	49	10	8.6	1.6	1.9
29	3.6	2.5	e3.0	e2.3	---	8.8	33	46	9.1	8.9	1.5	1.8
30	3.7	2.5	e2.7	e2.3	---	9.3	35	41	9.1	8.4	1.5	1.6
31	3.8	---	e2.6	e2.2	---	9.4	---	40	---	7.9	1.4	---
TOTAL	131.5	91.2	81.4	74.6	80.6	184.4	997	1629	621.2	264.9	98.8	39.19
MEAN	4.24	3.04	2.63	2.41	2.88	5.95	33.2	52.5	20.7	8.55	3.19	1.31
MAX	5.9	3.7	3.0	2.9	3.2	9.5	70	82	38	12	7.4	3.0
MIN	3.5	2.5	2.4	1.9	1.9	3.2	10	35	9.1	4.8	1.4	.34
ACFT	261	181	161	148	160	366	1980	3230	1230	525	196	78

CAL YR 1984	TOTAL	10387.4	MEAN	28.4	MAX	514	MIN	2.4	ACFT	20600
WTR YR 1985	TOTAL	4293.79	MEAN	11.8	MAX	82	MIN	.34	ACFT	8520

e Estimated.

GREEN RIVER BASIN

85

09288180 STRAWBERRY RIVER NEAR DUCHESNE, UT

LOCATION.--Lat 40°09'17", long 110°33'15", in SE1/4SW1/4SW1/4 sec.3, T.4 S., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060004, on right bank 150 ft downstream from County Road bridge, 2,000 ft upstream from maximum high-water line of Starvation Reservoir, and 7.9 mi west of Duchesne.

DRAINAGE AREA.--917 mi² (includes approximately 170 mi² tributary to Strawberry Reservoir).

PERIOD OF RECORD.--May 1968 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,722 ft (Rabbit Gulch Quadrangle which gives bridge elevation).

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Strawberry Reservoir since July 14, 1912. Capacity, 1,106,500 acre-ft since June 30, 1973; 283,000 acre-ft prior to June 30, 1973. New earthfilled dam located 7 mi below old dam was completed in September 1972 and storage began June 30, 1973. The elevation of new reservoir reached the elevation of the old reservoir on March 15 and the old dam was breached on June 6, 1985. Water Hollow Tunnel will divert 600 ft³/s to the reservoir during spring runoff when series of tunnels and small reservoirs are completed on Rock Creek, West Fork Duchesne River, and Currant Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,090 ft³/s May 31, 1983, gage height, 8.29 ft; maximum gage height, 10.16 ft Jan. 2, 1983, result of an ice jam; minimum recorded, 17 ft³/s June 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 656 ft³/s May 10, gage height, 6.43 ft; minimum daily, 84 ft³/s Aug. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e360	117	e97	e115	e91	e142	125	330	325	160	151	98
2	e365	115	e96	e102	e85	e143	138	375	316	154	147	100
3	e370	115	e94	e96	e88	e138	160	449	302	154	139	102
4	369	116	e92	e92	e105	e139	175	555	293	152	136	96
5	364	112	e92	e88	e94	e190	164	616	281	147	134	92
6	349	111	e92	e93	e102	e178	172	614	268	141	129	90
7	335	115	e95	e99	e110	e170	185	593	257	144	120	91
8	332	114	e103	e105	e120	e160	180	566	244	147	108	107
9	328	118	e108	e117	e118	e163	186	559	235	142	107	111
10	320	109	e115	e114	e112	e160	198	589	234	134	109	108
11	320	115	e123	e105	e108	e155	203	594	232	138	112	122
12	273	113	e129	e93	e115	e151	249	540	218	134	108	174
13	197	112	e120	e86	e125	148	294	489	208	137	94	136
14	205	112	e110	e93	e133	147	341	449	197	133	87	128
15	200	105	e103	e102	e132	160	395	418	194	129	84	132
16	194	e102	e98	e109	e128	179	488	396	186	129	85	137
17	197	e100	e91	e115	e126	169	490	388	176	199	87	134
18	197	e98	e100	e120	e125	159	557	384	170	221	97	129
19	199	e97	e110	e128	e125	159	573	395	170	184	94	149
20	167	e95	e128	e130	e128	174	548	407	167	183	92	144
21	149	e96	e130	e124	e131	153	456	413	164	230	93	141
22	142	e97	e125	e117	e140	129	436	409	159	226	93	143
23	137	e98	e112	e112	e137	122	380	394	163	223	93	140
24	133	e99	e105	e107	e132	131	330	390	163	180	93	135
25	128	e100	e105	e103	e132	143	330	386	193	165	92	131
26	128	e96	e108	e109	e130	139	315	386	198	160	95	127
27	131	e88	e115	e115	e132	130	297	366	182	149	97	122
28	122	e85	e119	e121	e137	123	303	350	171	147	98	120
29	124	e88	e126	e125	---	123	301	339	168	185	98	121
30	122	e97	e128	e118	---	112	296	327	166	160	93	121
31	121	---	e122	e102	---	123	---	324	---	155	95	---
TOTAL	7078	3135	3391	3355	3341	4612	9265	13790	6400	5042	3260	3681
MEAN	228	105	109	108	119	149	309	445	213	163	105	123
MAX	370	118	130	130	140	190	573	616	325	230	151	174
MIN	121	85	91	86	85	112	125	324	159	129	84	90
ACFT	14040	6220	6730	6650	6630	9150	18380	27350	12690	10000	6470	7300
CAL YR 1984	TOTAL	145175	MEAN	397	MAX	1640	MIN	85	ACFT	288000		
WTR YR 1985	TOTAL	66350	MEAN	182	MAX	616	MIN	84	ACFT	131600		

e Estimated.

GREEN RIVER BASIN

09288900 SOWERS CREEK NEAR DUCHESNE, UT

LOCATION.--Lat 39°59'22", long 110°27'33", in SW1/4SW1/4NW1/4 sec.4, T.6 S., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on left bank 0.5 mi upstream from Ashley National Forest boundary, 5.7 mi upstream from mouth of Tabby Canyon, and 12.4 mi south of Duchesne.

DRAINAGE AREA.--40.6 mi².

PERIOD OF RECORD.--May 1964 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No diversion above station.

AVERAGE DISCHARGE.--21 years, 4.19 ft³/s, 3,020 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 451 ft³/s Aug. 12, 1983, gage height, 7.45 ft, from rating curve extended above 42 ft³/s on basis of slope-area measurement of 1974 peak flow; no flow for part of winter period 1964, 1965, Feb. 18-21, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 35 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 30	1400	*32	*2.86	No other peak greater than base discharge.			

Minimum discharge, 0.67 ft³/s Jan. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	3.2	1.5	1.5	e1.9	2.4	2.4	3.6	5.7	3.6	3.5	2.4
2	5.5	2.9	e1.3	1.2	e1.8	2.4	3.0	3.6	5.3	3.5	3.4	2.4
3	4.0	2.9	e1.2	1.6	e2.0	2.1	2.8	3.8	5.0	3.4	3.4	2.5
4	3.7	2.8	e1.3	1.7	e2.1	2.0	2.4	3.9	4.8	3.4	3.4	2.4
5	3.6	3.0	e1.3	1.9	e2.1	2.8	2.5	4.2	4.8	3.3	3.3	2.4
6	3.5	2.8	e1.2	3.0	e2.1	2.7	2.5	4.5	4.7	3.3	3.2	2.4
7	3.5	2.8	e1.2	2.5	2.0	2.5	2.5	4.5	4.5	3.3	3.1	2.5
8	3.4	3.0	e1.4	2.5	2.0	2.8	2.7	4.6	4.4	3.4	3.1	2.4
9	3.4	2.9	1.6	2.5	1.9	3.8	2.7	4.6	4.5	3.3	3.1	2.4
10	3.3	e2.7	1.8	2.6	1.8	4.3	2.8	5.4	4.4	3.3	3.0	2.3
11	3.3	3.1	2.1	2.7	1.8	4.1	3.0	5.4	4.4	3.3	3.0	4.5
12	3.4	3.0	2.3	2.0	1.8	3.4	3.0	5.1	4.4	3.6	3.0	3.3
13	3.3	3.0	2.2	e1.9	1.8	3.0	3.1	5.0	4.3	3.6	3.0	2.6
14	3.3	2.9	1.8	e1.8	1.8	3.0	3.3	5.0	4.2	3.3	2.9	2.6
15	3.4	e2.9	2.0	e2.1	1.9	4.7	3.3	4.9	4.2	3.5	2.8	2.5
16	3.4	3.3	2.0	e2.4	1.9	4.8	3.6	5.0	4.1	3.3	2.8	2.4
17	3.5	2.8	1.7	e2.7	1.9	5.7	3.6	5.0	4.1	3.4	2.8	2.4
18	4.5	e2.5	2.3	2.8	1.9	5.3	3.6	5.0	4.0	4.3	2.8	2.8
19	3.8	e2.3	2.4	2.8	1.9	6.8	4.0	5.0	4.0	3.8	2.8	3.3
20	3.1	e2.0	2.3	2.7	2.0	4.8	4.1	5.3	3.9	3.7	2.6	2.7
21	3.1	e1.9	2.0	2.7	2.0	2.5	4.3	5.5	3.7	4.5	2.5	2.6
22	3.0	e2.1	1.6	2.7	2.0	2.1	4.7	5.3	3.7	6.0	2.5	2.6
23	3.2	e2.3	2.4	2.6	2.0	2.5	4.7	5.0	3.6	4.8	2.5	2.5
24	3.1	e2.3	2.2	2.2	2.0	3.1	4.7	5.0	3.8	4.0	2.4	2.5
25	3.7	e2.3	1.9	2.7	2.0	2.8	4.7	4.8	5.1	3.8	2.4	2.5
26	3.0	e2.0	2.4	2.8	1.8	2.0	4.5	4.8	4.3	3.7	2.6	2.4
27	2.9	e1.7	2.4	2.4	1.9	1.8	4.3	4.8	3.9	3.8	2.6	2.4
28	3.7	e1.6	2.1	2.4	1.9	1.7	3.9	4.7	3.8	4.2	2.4	2.3
29	3.0	e1.8	2.0	2.2	---	1.6	3.6	4.7	3.7	4.5	2.4	2.3
30	3.0	e1.6	2.0	e2.1	---	3.6	3.6	4.7	3.6	4.2	2.3	2.4
31	3.0	---	1.9	e2.2	---	2.0	---	5.5	---	3.7	2.3	---
TOTAL	109.2	76.4	57.8	71.9	54.0	99.1	103.9	148.2	128.9	116.8	87.9	77.7
MEAN	3.52	2.55	1.86	2.32	1.93	3.20	3.46	4.78	4.30	3.77	2.84	2.59
MAX	5.6	3.3	2.4	3.0	2.1	6.8	4.7	5.5	5.7	6.0	3.5	4.5
MIN	2.9	1.6	1.2	1.2	1.8	1.6	2.4	3.6	3.6	3.3	2.3	2.3
ACFT	217	152	115	143	107	197	206	294	256	232	174	154

CAL YR 1984	TOTAL	1531.8	MEAN	4.19	MAX	12	MIN	1.2	ACFT	3040
WTR YR 1985	TOTAL	1131.8	MEAN	3.10	MAX	6.8	MIN	1.2	ACFT	2240

e Estimated.

GREEN RIVER BASIN

87

09289500 LAKE FORK RIVER ABOVE MOON LAKE, NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°36'24", long 110°31'35", in SW1/4SE1/4SE1/4 sec.35, T.3 N., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 2,000 ft upstream from head of Moon Lake at maximum stage, 2 mi upstream from Brown Duck Creek, 16 mi northeast of Mountain Home.

DRAINAGE AREA.--77.9 mi².

PERIOD OF RECORD.--April 1933 to September 1934 (published as West Fork of Lake Fork above Moon Lake, near Mountain Home); July 1942 to September 1955, October 1963 to September 1965 (published as Lake Fork above Moon Lake, near Mountain Home); October 1965 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 8,180 ft from topographic map. April 1933 to September 1934, at site 2.5 mi upstream at different datum. July 13, 1942 to July 26, 1949, at datum 1.00 ft higher.

REMARKS.--Records fair including estimated daily discharges.

AVERAGE DISCHARGE.--35 years (water years 1943-55, 1964-85), 114 ft³/s, 82,590 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft³/s June 26, 1944, gage height, 5.27 ft, datum then in use, from rating curve extended above 700 ft³/s; minimum daily recorded, 13 ft³/s Apr. 14, 1933.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 7		*1,090	*4.54	No other peak greater than base discharge.			

Minimum daily, 20 ft³/s, Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	65	e40	e28	e20	e26	e33	153	324	133	106	52
2	105	63	e40	e28	e23	e28	e34	194	283	130	98	54
3	102	63	e40	e28	e24	e25	e34	252	274	130	92	56
4	96	62	e35	e29	e25	e23	e32	308	290	129	87	56
5	90	62	e33	e30	e25	e22	e32	325	396	e125	83	54
6	85	60	e33	e31	e25	e24	e33	311	484	e121	80	53
7	82	59	e33	e31	e25	e25	e35	293	700	e120	78	53
8	80	60	e35	e31	e26	e25	e38	353	816	e120	75	53
9	79	61	e37	e31	e27	e25	e45	363	724	e120	72	53
10	78	e48	e38	e30	e25	e25	e50	340	622	e128	71	51
11	77	60	e38	e28	e22	e27	e56	273	506	e145	69	66
12	86	58	e35	e26	e24	e26	e66	231	484	e142	68	66
13	85	57	e33	e24	e25	e25	e72	199	490	e139	67	62
14	84	57	e32	e23	e25	e22	e90	190	472	e136	65	65
15	70	e45	e32	e26	e25	e23	e104	186	446	e130	64	69
16	71	e44	e32	e27	e25	e24	e116	192	442	e132	62	65
17	74	55	e32	e27	e25	e25	e120	221	385	e140	62	59
18	75	e43	e33	e29	e27	e25	118	281	341	e136	62	67
19	75	e42	e34	e30	e26	e25	111	300	315	e132	61	109
20	74	e43	e35	e30	e26	e25	89	259	290	e136	59	83
21	72	55	e32	e30	e28	e22	74	226	264	e138	58	78
22	71	e52	e29	e28	e30	e23	67	246	231	e139	57	72
23	71	e48	e25	e26	e28	e24	59	328	220	e137	56	68
24	71	e47	e25	e25	e26	e25	60	380	226	e126	55	66
25	69	e46	e26	e25	e23	e26	66	443	263	e120	55	65
26	67	e40	e27	e28	e22	e26	64	484	205	e116	55	64
27	66	e35	e30	e30	e22	e25	62	543	169	e123	55	64
28	71	e37	e33	e32	e23	e25	67	585	149	e150	54	63
29	65	e37	e35	e33	---	e25	81	564	142	e142	53	60
30	64	e40	e31	e29	---	e25	114	479	137	e130	52	59
31	64	---	e29	e22	---	e27	---	384	---	e118	52	---
TOTAL	2410	1544	1022	875	697	768	2022	9886	11090	4063	2083	1905
MEAN	77.7	51.5	33.0	28.2	24.9	24.8	67.4	319	370	131	67.2	63.5
MAX	105	65	40	33	30	28	120	585	816	150	106	109
MIN	64	35	25	22	20	22	32	153	137	116	52	51
ACFT	4780	3060	2030	1740	1380	1520	4010	19610	22000	8060	4130	3780

CAL YR 1984	TOTAL	52991	MEAN	145	MAX	945	MIN	23	ACFT	105100
WTR YR 1985	TOTAL	38365	MEAN	105	MAX	816	MIN	20	ACFT	76100

e Estimated.

GREEN RIVER BASIN

09290500 MOON LAKE RESERVOIR NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°33'43", long 110°29'21", in NW1/4NE1/4NE1/4 sec.19, T.2 N., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, at dam on Lake Fork River, 1.4 mi downstream from Brown Duck Creek, 10.5 mi upstream from Yellowstone River, and 12.5 mi northwest of Mountain Home.

DRAINAGE AREA.--108 mi².

PERIOD OF RECORD.--December 1937 to current year.

REVISED RECORDS.--WDR UT-77-1: 1975.

GAGE.--Nonrecording gage read once daily on days shown. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir formed by earthfill, rock-faced dam with concrete core. Storage began Dec. 9, 1937. Capacity, 35,760 acre-ft between elevations 8,072.00 ft, crest of original outlet of lake, about 2,000 ft upstream from dam, and 8,137.00 ft, top of spillway gates. Elevation of spillway crest is 8,121.00 ft and elevation of sill of outlet works is 8,064.16 ft. Dead storage between sill of outlet and crest of original outlet of lake, 2,050 acre-ft. Total dead storage, 13,740 acre-ft. Figures given herein represent usable contents. Water is used for irrigation on lands under Moon Lake Water Users Association and Uintah Indian Irrigation projects.

COOPERATION.--Capacity table provided by Bureau of Reclamation. Gage heights furnished by Moon Lake Water Users Association.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 37,560 acre-ft July 10, 11, 1950; elevation, 8,139.30 ft; minimum observed, 226 acre-ft Sept. 30, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 34,840 acre-ft June 30, elevation, 8,135.8 ft; minimum contents observed, 9,390 acre-ft Sept. 30, elevation, 8,096.0 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	8,115.6	20,600	-
Oct. 31	-	*21,180	+580
Nov. 30	-	*24,620	+3,440
Dec. 31	-	*26,620	+2,000
CAL YR 1984	-	-	-360
Jan. 31	-	*28,030	+1,410
Feb. 28	-	*29,180	+1,150
Mar. 31	-	*30,050	+870
Apr. 30	-	*31,820	+1,770
May 31	8,134.0	33,470	+1,650
June 30	8,135.8	34,840	+1,370
July 31	8,124.5	26,550	-8,290
Aug. 31	-	*11,900	-14,650
Sept. 30	8,096.0	9,390	-2,510
WTR YR 1985	-	-	-11,210

(*) No gage reading, contents interpolated.

GREEN RIVER BASIN

89

09291000 LAKE FORK RIVER BELOW MOON LAKE, NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°33'23", long 110°29'02", in SW1/4SW1/4NW1/4 sec.20, T.2 N., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 2,000 ft downstream from Moon Lake Dam, 2 mi downstream from Brown Duck Creek, and 12 mi northwest of Mountain Home.

DRAINAGE AREA.--112 mi².

PERIOD OF RECORD.--September 1921 to September 1934 (fragmentary), April 1942 to current year. Published as West Fork of Lake Fork near Mountain Home 1921-34, and as Lake Fork below Moon Lake, near Mountain Home 1942-65.

REVISED RECORDS.--WSP 1313: 1930 (M). WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,970 ft by barometer. Prior to April 1942, at damsite 2,000 ft upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Moon Lake Reservoir (see station 09290500). No diversion above station.

AVERAGE DISCHARGE.--43 years (1942-1985), 129 ft³/s, 93,460 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 2,180 ft³/s June 19, 1949 (gage height, 4.83 ft), from rating curve extended above 860 ft³/s; maximum gage height, 5.46 ft June 26, 1944; no flow at times when reservoir gates are closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,560 ft³/s June 7, gage height, 4.59 ft; minimum daily, 0.82 ft³/s, Sept. 23-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226	3.9	6.9	e10	e12	e14	6.9	337	228	386	301	287
2	147	3.9	7.1	e10	e12	e14	7.6	394	286	376	285	285
3	128	3.9	7.6	e10	e12	e14	8.4	425	283	369	292	284
4	128	3.9	7.6	e10	e12	e15	8.4	429	279	361	303	282
5	128	3.9	8.3	e10	e12	e15	9.1	425	284	365	288	280
6	129	3.9	8.3	e10	e12	e15	9.9	412	290	366	288	279
7	128	3.9	8.3	e10	e12	e15	11	407	525	359	300	278
8	128	3.9	8.3	e10	e12	e15	12	412	1030	349	296	276
9	128	3.9	8.3	e10	e13	e15	12	377	861	341	293	274
10	107	3.9	8.9	e11	e13	e15	12	341	718	332	292	272
11	90	e4.1	9.1	e11	e13	e15	23	341	548	316	291	235
12	89	3.4	9.1	e11	e13	e15	31	337	493	311	290	131
13	90	e3.7	9.1	e11	e13	e15	24	337	472	306	291	94
14	91	e3.6	9.1	e11	e13	e15	14	329	490	302	303	94
15	91	e3.8	9.1	e11	e13	e15	37	321	470	315	415	94
16	90	3.4	9.1	e11	e13	e15	56	375	486	341	442	39
17	91	3.4	e9.4	e11	e13	e16	67	398	417	333	440	1.3
18	91	3.4	e9.4	e11	e13	e16	81	392	401	326	436	1.1
19	74	3.4	e9.4	e11	e13	e16	92	390	371	321	438	1.1
20	61	3.4	e9.4	e11	e13	e16	92	389	340	313	438	1.1
21	61	3.4	e9.4	e11	e14	e16	92	382	315	307	435	1.1
22	39	3.4	e9.5	e11	e14	e16	92	377	307	299	360	1.0
23	4.3	3.4	e9.5	e11	e14	28	101	377	299	225	338	.82
24	3.9	3.4	e9.6	e11	e14	29	105	379	294	239	338	.82
25	3.9	e3.8	e9.6	e11	e14	6.3	108	388	291	309	336	.82
26	3.9	5.6	e9.7	e11	e14	5.6	108	369	287	318	259	.82
27	3.9	6.1	e9.7	e11	e14	6.3	108	239	282	326	268	.82
28	3.9	6.3	e9.8	e11	e14	7.6	160	193	274	345	292	.82
29	3.9	6.3	e9.9	e11	---	7.6	306	201	326	329	292	24
30	3.9	6.9	e10	e12	---	58	337	209	403	323	291	77
31	3.9	---	e10	e12	---	7.6	---	215	---	313	290	---
TOTAL	2370.5	123.2	278.5	334	364	489.0	2131.3	10897	12350	10121	10221	3596.62
MEAN	76.5	4.11	8.98	10.8	13.0	15.8	71.0	352	412	326	330	120
MAX	226	6.9	10	12	14	58	337	429	1030	386	442	287
MIN	3.9	3.4	6.9	10	12	5.6	6.9	193	228	225	259	.82
ACFT	4700	244	552	662	722	970	4230	21610	24500	20080	20270	7130
CAL YR 1984	TOTAL	61259.2	MEAN	167	MAX	1190	MIN	3.4	ACFT	121500		
WTR YR 1985	TOTAL	53276.12	MEAN	146	MAX	1030	MIN	.82	ACFT	105700		

e Estimated.

GREEN RIVER BASIN

09292500 YELLOWSTONE RIVER NEAR ALTONAH, UT

LOCATION.--Lat 40°30'43", long 110°20'27", in SW1/4SW1/4NE1/4 sec.4, T.1 N., R.4 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 1.5 mi downstream from powerplant of Moon Lake Electric Association, Inc., 2 mi downstream from Hell Canyon, 8.2 mi northwest of Altonah.

DRAINAGE AREA.--132 mi².

PERIOD OF RECORD.--October 1944 to current year. Prior to October 1965, published as Yellowstone Creek near Altonah.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,430 ft from river-profile map.

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

AVERAGE DISCHARGE.--41 years, 140 ft³/s, 101,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,240 ft³/s June 19, 1983, gage height, 4.24 ft; minimum daily, 25 ft³/s Nov. 28, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 9	2400	*979	*3.41	No other peak greater than base discharge.			

Minimum daily discharge, 50 ft³/s Mar. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	103	e84	e74	e51	59	53	150	352	228	186	e91
2	161	103	e86	e72	e53	51	59	185	319	224	174	e94
3	156	102	e88	e72	e55	52	63	235	305	220	174	e97
4	150	99	e90	e74	e57	57	60	278	292	218	171	e96
5	141	99	e88	e73	e56	68	58	304	361	214	165	e91
6	136	98	e86	e72	e58	53	61	296	406	209	157	e88
7	131	97	e84	e70	e59	57	65	269	495	208	e147	e90
8	129	98	82	68	e59	59	71	310	674	196	e141	e92
9	126	97	80	71	e59	51	77	343	686	190	e136	e91
10	124	106	78	74	e60	52	83	332	674	183	e132	e88
11	123	100	84	e72	e59	52	89	268	455	185	e130	e109
12	138	96	80	e70	e59	53	93	243	410	225	e131	e140
13	134	94	e78	e69	e59	56	96	221	415	203	e126	e115
14	136	92	e77	e68	e59	53	106	207	410	206	e127	e113
15	120	94	e75	e66	e58	53	118	214	394	192	e132	e109
16	115	93	e75	e64	e58	51	124	236	390	189	e122	e102
17	124	86	e77	e64	e57	52	132	253	382	202	e116	e95
18	123	88	e80	65	e56	51	135	284	354	230	e115	e100
19	118	85	e80	60	e54	51	136	327	342	218	e114	e188
20	120	88	e82	59	53	52	124	286	334	210	e108	e146
21	117	86	e82	63	53	52	111	261	323	208	e107	e125
22	116	83	e80	73	54	54	104	257	310	228	e105	e116
23	115	85	e80	e70	57	53	94	323	300	208	e100	e108
24	114	86	e78	e69	60	53	93	334	294	195	e99	e101
25	112	86	e76	e64	54	54	92	384	326	185	e97	e100
26	110	87	e76	e65	60	52	88	415	295	191	e98	e97
27	107	e84	e76	e68	64	52	85	451	271	183	e99	e96
28	112	e80	e78	e65	63	52	90	453	252	179	e97	e95
29	107	e82	e80	e62	---	50	96	433	242	209	e94	e89
30	106	e82	e78	e58	---	60	122	399	234	202	e91	e86
31	106	---	e75	e54	---	51	---	372	---	196	e89	---
TOTAL	3869	2759	2493	2088	1604	1666	2778	9323	11297	6334	3880	3148
MEAN	125	92.0	80.4	67.4	57.3	53.7	92.6	301	377	204	125	105
MAX	161	106	90	74	64	68	136	453	686	230	186	188
MIN	106	80	75	54	51	50	53	150	234	179	89	86
ACFT	7670	5470	4940	4140	3180	3300	5510	18490	22410	12560	7700	6240

CAL YR 1984	TOTAL	60837	MEAN	166	MAX	899	MIN	53	ACFT	120700
WTR YR 1985	TOTAL	51239	MEAN	140	MAX	686	MIN	50	ACFT	101600

e Estimated.

GREEN RIVER BASIN

91

09295000 DUCHESNE RIVER AT MYTON, UT

LOCATION.--Lat 40°12'01", long 110°03'47", in NE1/4NW1/4NW1/4 sec.25, T.3 S., R.2 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank at Myton, 3 mi downstream from Lake Fork.

DRAINAGE AREA.--2,643 mi².

PERIOD OF RECORD.--October 1899 to December 1902, April to December 1903, March to December 1904, March to July and September to November 1905, April to July 1906, April to December 1907, March to December 1908, April to December 1909, March to November 1910, July 1911 to current year. Published as "at Price road bridge" 1899-1902.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,061.40 ft NGVD of 1929. Prior to Oct. 14, 1933, nonrecording gages at several sites within 0.5 mi of present site at various datums.

AVERAGE DISCHARGE.--77 years (1899-1902, 1911-1985), 518 ft³/s, 375,300 acre-ft/yr.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by several reservoirs. Large diversions above station for irrigation, including transmountain diversions to the Great Basin through Duchesne and Strawberry Tunnels, Hobbie Creek ditch, and Strawberry River and Willow Creek ditch.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 12,800 ft³/s June 10, 1922, gage height, 7.94 ft site and datum then in use, from rating curve extended above 8,000 ft³/s; maximum gage height, 8.35 ft June 22, 24, 1983; minimum, less than 1 ft³/s July 16, 1931, and for several days in August and September 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,100 ft³/s June 9, gage height, 6.20 ft; minimum daily, 71 ft³/s July 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	702	925	500	542	e380	e365	240	361	1340	223	244	155
2	977	903	461	462	e390	e395	174	474	1230	201	204	160
3	1040	921	446	445	e400	e380	169	345	1090	116	180	161
4	1010	922	469	461	e430	e350	155	538	1050	99	157	167
5	942	909	464	480	e420	e370	129	732	1100	105	115	164
6	917	912	458	509	e410	e400	447	743	1160	97	149	181
7	901	930	455	550	e390	e390	534	745	1310	102	111	165
8	895	927	472	569	e385	e370	535	1160	2170	92	134	158
9	879	944	515	558	e385	e360	511	1320	2590	80	95	160
10	882	912	521	e558	e410	e390	547	1400	2220	71	92	169
11	882	940	511	e550	e400	e415	290	1390	1590	101	92	207
12	888	942	514	522	e390	e445	292	1100	1200	502	97	420
13	932	926	513	457	e375	e440	354	910	1040	342	147	303
14	923	929	491	e405	e365	e410	624	757	953	227	157	246
15	949	905	467	e410	e360	e365	519	659	877	202	190	207
16	904	888	499	e430	e385	e320	164	646	791	231	191	201
17	932	925	511	e470	e395	281	149	650	733	214	177	123
18	936	901	469	e490	e395	321	175	703	799	349	197	106
19	929	887	580	e520	e415	340	193	875	714	350	203	162
20	956	924	580	e500	e430	327	190	935	458	381	191	198
21	955	922	566	e460	e425	314	120	940	407	529	163	175
22	945	934	534	e440	e385	247	93	948	358	528	150	159
23	946	926	472	e420	e350	463	83	1030	287	740	106	149
24	935	543	500	e395	e355	524	186	1230	261	463	115	140
25	968	511	514	e370	e380	636	247	1360	294	349	121	137
26	975	473	459	e390	e350	631	365	1530	372	276	122	133
27	489	420	512	e430	e330	590	345	1700	305	254	139	134
28	402	477	585	e480	e340	237	327	1860	275	238	164	131
29	494	545	604	e460	---	165	313	1830	236	285	150	132
30	959	545	598	e430	---	289	251	1650	231	375	144	130
31	933	---	590	e400	---	359	---	1480	---	315	162	---
TOTAL	27377	24668	15830	14563	10825	11889	8721	32001	27441	8437	4659	5233
MEAN	883	822	511	470	387	384	291	1032	915	272	150	174
MAX	1040	944	604	569	430	636	624	1860	2590	740	244	420
MIN	402	420	446	370	330	165	83	345	231	71	92	106
ACFT	54300	48930	31400	28890	21470	23580	17300	63470	54430	16730	9240	10380
CAL YR 1984	TOTAL	318094	MEAN	869	MAX	3780	MIN	168	ACFT	630900		
WTR YR 1985	TOTAL	191644	MEAN	525	MAX	2590	MIN	71	ACFT	380100		

e Estimated.

GREEN RIVER BASIN

09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UT

LOCATION (REVISED).--Lat 40°35'13", long 109°55'37", in SE1/4NE1/4NW1/4 sec.7, T.2 N., R.1 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, on left bank, 3.2 mi upstream from U.S. Forest Boundary, and 9.6 mi northeast of Whiterocks.

DRAINAGE AREA (REVISED).--110 mi².

PERIOD OF RECORD.--September 1899 to December 1903, April to December 1907, March 1908 to November 1910, October 1913 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as Whiterocks River in Canyon, 1899, and as Whiterocks Creek near Whiterocks, 1918-25. November 1917 to June 1921 United States Whiterocks Canal diverted above station (records equivalent if flow of Whiterocks Canal is included).

GAGE.--Water-stage recorder. Altitude of gage is (revised) 7,160 ft from topographic map. Prior to Oct. 16, 1930, nonrecording gages at several sites within 2 mi of present site at various datums. Oct. 16, 1930 to Nov. 26, 1984, water-stage recorder at various sites and datums about 3 mi downstream.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow slightly regulated by small mountain lakes.

AVERAGE DISCHARGE.--78 years (water years 1900-03, 1909-10, 1913-85), 124 ft³/s, 89,840 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,640 ft³/s, June 22, 1983, gage height, 5.28 ft, from rating curve extended above 2,000 ft³/s, site and datum then in use; minimum recorded, 9.2 ft³/s Apr. 3, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 8	2230	*632	*4.34	No other peak greater than base discharge.			

Minimum daily discharge, 21 ft³/s, Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	61	e32	e25	e21	e28	44	225	231	114	203	102
2	133	63	e30	e25	e23	e26	52	344	233	111	178	103
3	121	61	e28	e25	e25	e27	58	458	209	113	166	111
4	109	59	e26	e26	e27	e27	59	532	200	140	155	174
5	103	59	e25	e27	e26	e28	59	502	208	136	144	173
6	99	62	e26	e28	e25	e28	64	462	206	134	136	167
7	96	60	e28	e30	e27	e26	70	422	242	138	130	167
8	91	e57	e29	e31	e26	e28	78	504	309	155	139	170
9	90	e55	e29	e33	e28	e28	84	548	305	162	141	164
10	90	e46	e30	e32	e31	e30	90	501	272	149	136	158
11	90	e43	e29	e29	e29	e39	96	358	231	146	135	205
12	97	e46	e28	e26	e27	e33	98	295	204	160	134	223
13	97	e44	e27	e25	e28	e34	107	239	197	199	144	166
14	109	e40	e27	e24	e28	e32	119	223	190	196	141	157
15	89	e38	e26	e25	e29	e31	124	244	186	168	140	146
16	82	e37	e26	e26	e29	e32	345	286	182	161	135	141
17	85	e36	e27	e28	e29	e31	146	306	210	161	131	128
18	84	e35	e28	e30	e29	e34	149	344	196	202	131	146
19	82	e37	e30	e32	e31	e33	157	334	187	167	129	282
20	79	e39	e31	e33	e33	e33	138	273	182	192	127	214
21	79	e41	e29	e33	e31	e33	118	251	175	224	122	203
22	79	e43	e27	e30	e33	e30	103	257	166	295	118	167
23	77	e44	e25	e28	e31	e31	91	317	160	270	117	149
24	75	e46	e24	e26	e29	e33	88	340	172	212	115	139
25	75	e46	e25	e25	e28	e33	85	355	263	179	113	136
26	71	e45	e28	e26	e28	e33	79	329	228	164	110	121
27	69	e39	e29	e28	e28	e33	77	355	145	163	108	114
28	69	e41	e29	e30	e28	34	88	335	116	166	108	92
29	67	e38	e29	e29	---	33	115	302	126	204	106	85
30	65	e34	e28	e26	---	39	174	268	120	282	103	82
31	65	---	e27	e25	---	41	---	232	---	252	103	---
TOTAL	2731	1395	862	866	787	981	3155	10741	6051	5515	4098	4585
MEAN	88.1	46.5	27.8	27.9	28.1	31.6	105	346	202	178	132	153
MAX	133	63	32	33	33	41	345	548	309	295	203	282
MIN	65	34	24	24	21	26	44	223	116	111	103	82
ACFT	5420	2770	1710	1720	1560	1950	6260	21300	12000	10940	8130	9090
CAL YR 1984	TOTAL	49064	MEAN	134	MAX	899	MIN	23	ACFT	97320		
WTR YR 1985	TOTAL	41767	MEAN	114	MAX	548	MIN	21	ACFT	82840		

e Estimated.

GREEN RIVER BASIN

93

09302000 DUCHESNE RIVER NEAR RANDLETT, UT

LOCATION.--Lat 40°12'56", long 109°46'58", in SW1/4SW1/4SW1/4 sec.16, T.3 S., R.2 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 0.25 mi downstream from Uintah River, 1.2 mi southeast of Randlett, and 6.5 mi southeast of Fort Duchesne.

DRAINAGE AREA.--4,247 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,756.1 ft NGVD of 1929. Prior to Aug. 23, 1944 at site 300 ft downstream at different datum. Aug. 23, 1944 to Sept. 4, 1964 at site 200 ft upstream at datum 1.87 ft higher. Sept. 5, 1964 to June 6, 1968 at site 700 ft upstream at datum 1.68 ft higher. June 7, 1968 to Aug. 31, 1970 at site 200 ft upstream at datum 1.87 ft higher. Sept. 1, 1970 to June 7, 1975 at site 300 ft upstream at datum 2.23 ft higher. June 7, 1975 to May 5, 1977 at site 200 ft upstream at datum 1.87 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by several reservoirs. Large diversions above station for irrigation, including transmountain diversions to the Great Basin through Duchesne and Strawberry Tunnels, Hobbie Creek ditch, Strawberry River, and Willow Creek Ditch.

AVERAGE DISCHARGE.--43 years, 601 ft³/s, 435,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 11,500 ft³/s June 20, 1983; maximum gage height, 9.03 ft Feb. 13, 1962 (backwater from ice); minimum, 2.2 ft³/s Aug. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,050 ft³/s June 8, gage height, 6.05 ft; minimum daily, 99 ft³/s Aug. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	819	1060	757	e750	e440	e570	559	442	1430	411	341	242
2	845	1080	709	e650	e450	e600	453	601	1400	363	278	238
3	953	1110	655	e600	460	e540	450	456	1250	283	212	256
4	1510	1110	630	540	460	e500	426	654	1170	212	190	275
5	1490	1100	560	e580	e480	e550	394	903	1130	213	174	292
6	1300	1100	570	e640	e470	e610	514	949	1190	196	152	281
7	1200	1120	614	e680	e450	e600	705	827	1320	201	151	295
8	1180	1120	600	e700	e430	e570	725	1090	1920	194	150	295
9	1150	1140	692	e680	e440	e560	670	1350	2630	140	131	306
10	1120	1100	739	e670	e520	e640	702	1520	2330	110	99	308
11	1110	1090	719	e660	490	e710	555	1720	1720	114	102	328
12	1070	1120	728	e640	e480	e780	473	1340	1330	352	103	641
13	1070	1100	679	e560	e470	e780	456	1150	1140	425	137	568
14	1070	1090	655	e520	e460	e740	692	980	1050	291	171	446
15	1120	1070	603	e520	e450	e700	715	844	971	253	198	400
16	1130	1030	676	e560	e470	e700	391	847	940	260	220	378
17	1150	1100	666	e600	e480	e850	277	860	921	248	221	344
18	1100	1100	639	e640	e480	1060	308	858	946	338	241	301
19	1140	1040	733	e660	e500	1020	307	1070	896	420	250	429
20	1190	1070	776	e610	e500	933	343	1190	680	426	227	464
21	1170	1070	741	e580	e500	833	297	1180	616	532	203	406
22	1190	1110	734	e560	e480	689	264	1220	542	638	192	366
23	1190	1100	679	e540	e430	767	228	1260	458	872	164	339
24	1200	857	e720	e520	e430	837	270	1440	414	611	153	330
25	1190	780	e760	e500	e470	950	359	1530	460	479	175	318
26	1160	756	e720	e520	e460	947	519	1680	683	391	187	313
27	1190	613	e780	e560	e480	879	544	1790	583	341	179	318
28	1210	696	e840	e610	e550	655	506	1910	498	299	227	301
29	830	781	e850	e560	---	474	504	1890	443	312	226	279
30	710	806	e840	e500	---	494	396	1640	441	429	206	281
31	1080	---	e830	e480	---	609	---	1520	---	417	235	---
TOTAL	34837	30419	21894	18390	13180	22147	14002	36711	31502	10771	5895	10338
MEAN	1124	1014	706	593	471	714	467	1184	1050	347	190	345
MAX	1510	1140	850	750	550	1060	725	1910	2630	872	341	641
MIN	710	613	560	480	430	474	228	442	414	110	99	238
ACFT	69100	60340	43430	36480	26140	43930	27770	72820	62480	21360	11690	20510
CAL YR 1984	TOTAL	428718	MEAN	1171	MAX	5900	MIN	465	ACFT	850400		
WTR YR 1985	TOTAL	250086	MEAN	685	MAX	2630	MIN	99	ACFT	496000		

e Estimated.

GREEN RIVER BASIN

09302000 DUCHESNE RIVER NEAR RANDETT, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1950 to September 1951, November 1956 to current year.

SPECIFIC CONDUCTANCE: December 1950 to September 1951, November 1956 to September 1980, June 1981 to current year, once daily.

WATER TEMPERATURES: December 1950 to September 1951, November 1956 to September 1978, October 1979 to September 1980, June 1981 to current year, once daily.

SEDIMENT DATA: October 1976 to current year, periodically.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 4,490 microsiemens Aug. 24, 1960; minimum observed, 225 microsiemens June 22, 1983.

WATER TEMPERATURES: Maximum, 29.0°C July 22, 1982; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,740 microsiemens July 9; minimum daily, 510 microsiemens June 8.

WATER TEMPERATURES: Maximum daily, 27.0°C July 10; minimum daily, 0.0°C many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)
OCT 29...	1345	754	870	8.4	16.0	7.0	11.7	638	310	6.2
NOV 20...	1600	1170	960	8.3	6.5	4.0	12.0	650	270	5.4
DEC 12...	1600	789	730	--	5.0	0.5	12.7	630	270	5.4
JAN 21...	1230	e700	690	8.3	-1.0	0.0	12.8	644	270	5.4
FEB 08...	1300	e580	780	8.2	-4.5	0.0	12.0	641	310	6.2
MAR 12...	1100	e1000	1500	8.4	9.5	0.0	11.8	640	440	8.8
APR 15...	1115	709	720	8.2	21.5	14.5	9.6	647	250	5.0
MAY 20...	1300	1110	690	8.4	22.5	16.0	8.5	645	220	4.5
JUN 18...	1045	898	550	8.5	26.5	20.5	8.4	652	210	4.1
JUL 09...	0750	150	1530	8.4	21.5	20.5	7.9	653	510	10
AUG 15...	1130	203	1450	8.5	24.5	18.5	8.1	640	450	9.0
SEP 11...	1130	276	1290	8.5	13.0	14.0	8.8	640	420	8.4

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 29...	62	38	74	34	1.9	1.8	200	240	27	0.4
NOV 20...	58	31	51	29	1.4	1.8	220	150	19	0.3
DEC 12...	58	30	56	31	1.5	1.6	180	190	27	0.3
JAN 21...	59	30	49	28	1.3	1.6	190	150	19	0.3
FEB 08...	68	34	61	30	1.6	1.5	180	200	33	0.3
MAR 12...	76	61	150	42	3.2	2.6	340	430	69	0.5
APR 15...	55	28	55	32	1.5	1.8	170	170	24	0.3
MAY 20...	50	24	48	32	1.4	2.2	150	160	20	0.3
JUN 18...	48	21	45	32	1.4	1.7	130	140	15	0.2
JUL 09...	110	56	160	41	3.2	3.8	260	480	67	0.6
AUG 15...	93	53	150	42	3.2	3.2	250	420	60	0.6
SEP 11...	89	48	130	40	2.8	3.1	260	350	49	0.5

e Estimated.

GREEN RIVER BASIN

95

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT 29...	9.6	574	576	0.78	1170	<0.1	0.02	0.03	<0.01	0.03
NOV 20...	9.0	429	449	0.58	1350	<0.1	<0.01	0.01	<0.01	0.03
DEC 12...	9.0	470	481	0.64	1000	0.17	<0.01	0.01	<0.01	0.03
JAN 21...	9.6	433	319	0.43	603	0.23	0.03	0.04	<0.01	0.03
FEB 08...	11	523	409	0.56	641	0.41	0.05	0.06	0.01	0.03
MAR 12...	15	1030	805	1.1	2170	0.3	0.24	0.31	0.04	0.12
APR 15...	8.1	463	447	0.63	886	<0.1	0.04	0.05	<0.01	0.03
MAY 20...	8.1	428	403	0.58	1280	<0.1	0.05	0.06	0.02	0.06
JUN 18...	6.7	363	356	0.49	880	<0.1	0.05	0.06	0.01	0.03
JUL 09...	12	1140	1040	1.6	462	<0.1	0.06	0.08	0.02	0.06
AUG 15...	10	959	938	1.3	526	<0.1	0.04	0.05	0.01	0.03
SEP 11...	11	870	837	1.2	648	<0.1	0.04	0.05	0.01	0.03

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 29...	1345	400
NOV 20...	1600	310
DEC 12...	1600	270
JAN 21...	1230	280
FEB 08...	1300	190
MAR 12...	1100	270
APR 15...	1115	280
MAY 20...	1300	260
JUN 18...	1045	230
JUL 09...	0750	740
AUG 15...	1130	740
SEP 11...	1130	660

GREEN RIVER BASIN

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

SPECIFIC CONDUCTANCE (US/CM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	760	---	1030	840	1040	1300	920	1390	1110	---
2	910	790	750	---	1040	---	1080	1160	920	---	1250	1400
3	1040	---	840	---	---	850	1120	1160	930	1620	1430	1500
4	930	780	830	---	980	---	1170	660	860	---	1410	1460
5	880	790	840	830	900	---	1210	650	880	1640	---	1380
6	830	800	860	880	---	860	1250	560	720	1700	---	1380
7	790	790	---	770	930	---	910	820	740	1700	1420	1370
8	790	770	860	760	790	---	890	850	510	1720	1480	1360
9	---	770	---	750	800	---	920	560	520	1740	1630	1290
10	830	780	870	800	810	1060	---	---	520	1640	1560	1420
11	830	780	760	800	---	1160	1000	880	530	---	---	1420
12	830	770	730	---	770	1440	1010	870	780	---	---	1270
13	800	770	780	1170	810	1450	---	880	790	1170	---	---
14	---	780	790	---	810	1370	---	960	970	1360	1470	---
15	760	770	810	1000	---	1260	900	1160	970	1360	1440	---
16	780	750	820	1010	---	1330	1060	1160	---	1530	1350	1260
17	---	750	---	850	770	1120	1340	---	---	1400	1350	---
18	860	---	840	790	790	1140	1290	1150	820	1150	1280	1420
19	850	750	820	770	790	1060	---	1150	790	1140	1360	1240
20	800	750	740	920	800	1060	1290	870	910	1150	1360	1440
21	810	750	930	810	800	1030	1290	1000	980	1200	1360	1410
22	---	760	950	830	780	1060	1560	900	1010	1200	1590	1400
23	---	770	970	840	800	1100	1660	830	1080	1200	1570	1380
24	800	790	950	850	840	940	1350	750	1230	1100	1520	---
25	810	---	---	740	850	900	1360	750	1220	1120	1430	1390
26	800	860	1010	890	870	890	1090	---	1260	1100	1510	1370
27	---	880	1010	890	---	970	1050	650	1300	1200	1550	1540
28	920	870	970	880	850	990	1050	600	1320	1230	1460	1490
29	920	770	---	910	---	1160	1110	---	1270	1190	1530	1560
30	860	750	---	950	---	1240	1230	700	1330	1050	1520	1560
31	900	---	---	980	---	1060	---	740	---	1110	1410	---
MEAN	---	780	---	870	---	1090	1160	880	930	1340	1440	1400

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	.5	---	.5	.0	---	---	16.0	24.0	23.0	---
2	---	7.0	.0	---	.5	---	---	---	16.0	---	23.5	21.0
3	---	---	.0	---	---	.0	---	15.5	18.0	21.5	24.0	21.5
4	---	---	.0	---	.5	---	---	16.5	18.0	---	24.0	20.5
5	---	6.5	.0	.5	1.0	---	---	16.0	18.5	23.5	---	17.0
6	---	6.5	.5	.5	---	.0	---	18.0	19.0	24.0	---	---
7	---	6.5	---	1.0	.5	---	---	18.0	19.5	22.0	23.0	---
8	---	---	.5	.5	.0	---	13.5	16.5	19.5	24.0	---	---
9	---	4.5	---	.5	.0	.5	14.0	13.0	19.5	24.0	---	16.0
10	---	4.5	.5	.5	.0	.5	---	---	20.0	27.0	---	17.0
11	---	3.5	1.0	.5	---	.5	14.0	13.0	18.5	---	---	14.0
12	---	5.0	.5	---	.0	1.0	15.0	13.0	22.0	---	---	---
13	---	7.5	.5	.0	.0	1.5	---	12.5	21.5	25.5	---	---
14	---	5.5	.0	---	.5	1.5	---	15.0	---	24.5	21.5	---
15	---	4.5	---	.5	---	2.5	16.0	15.0	---	24.0	22.0	---
16	8.0	5.0	---	.5	---	3.5	15.0	14.5	---	25.5	23.0	---
17	7.0	4.5	---	.5	.0	3.0	15.5	---	---	25.5	---	---
18	6.0	---	.0	.5	.5	4.0	14.5	16.5	20.5	25.5	24.0	---
19	7.5	3.5	.5	.5	.0	5.0	---	---	23.0	25.5	24.0	---
20	---	3.0	.5	.5	.5	4.5	11.5	16.0	22.5	21.5	24.0	---
21	---	3.5	.0	1.0	.5	3.0	11.5	16.5	22.5	21.0	24.5	---
22	---	3.5	.0	.5	.0	4.0	10.5	18.0	21.0	21.5	24.0	---
23	---	4.5	.5	.5	.0	---	10.0	16.5	23.0	21.0	25.5	---
24	6.5	---	.5	.5	.0	---	11.0	18.0	20.0	23.0	18.0	---
25	7.0	---	---	.5	.0	---	10.0	14.5	15.0	22.0	---	---
26	7.0	2.0	1.0	.5	.0	---	---	---	18.0	23.0	---	---
27	---	.0	1.0	.5	---	---	15.0	---	20.5	---	---	---
28	7.5	1.0	1.0	1.0	.0	---	---	16.5	23.0	---	---	---
29	7.0	1.0	---	1.0	---	---	---	---	23.5	22.5	21.5	---
30	8.5	.5	---	1.0	---	---	---	15.0	23.5	23.0	24.5	---
31	7.0	---	---	.5	---	---	---	---	---	22.0	21.0	---
MEAN	---	---	---	.5	---	---	---	---	---	23.5	---	---

GREEN RIVER BASIN

97

09302000 DUCHESNE RIVER NEAR RANDETT, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
JUN 18...	1045	898	20.5	--	3	7.3
JUL 09...	0750	150	20.5	--	192	78
AUG 15...	1130	203	18.5	55	110	60
SEP 11...	1130	276	14.0	70	134	100

GREEN RIVER BASIN

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 40°00'50", long 109°04'48", in NW1/4NE1/4NE1/4 sec.27, T.9 S., R.25 E., Uintah County, Hydrologic Unit 14050007, on right bank 900 ft upstream from small right bank tributary, 2.7 mi downstream from Colorado-Utah State line, and 7.5 mi upstream from Evacuation Creek.

DRAINAGE AREA.--3,680 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to September 1985 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,030 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 31,900 acres above station. Flow may be affected by storage in Kenny Reservoir, capacity 13,500 acre-ft, since December 1984.

AVERAGE DISCHARGE.--9 years, 824 ft³/s, 597,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,620 ft³/s June 8, 1984, gage height, 8.88 ft; minimum, 10 ft³/s July 2, 3, 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,590 ft³/s May 7, gage height, 7.09 ft; minimum daily, 272 ft³/s Nov. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	790	697	397	e550	e510	e495	e580	2260	3370	1510	1110	426
2	824	890	442	e525	e475	e520	567	2510	3080	1430	1040	457
3	845	561	738	e500	e475	e550	576	2740	2810	1360	997	660
4	753	468	902	e490	e500	e620	701	3160	2780	1320	983	619
5	806	477	698	e510	e530	e590	910	3550	2770	1270	977	543
6	874	589	568	e625	e530	e560	891	3820	2790	1240	1020	498
7	910	441	511	e700	e519	e560	883	4120	2850	1190	997	438
8	916	543	742	e660	e495	e575	889	3790	2860	1110	1040	443
9	903	733	885	e580	e480	e585	898	3870	3220	1010	1040	442
10	883	733	724	e525	e496	e575	901	4080	3740	1030	1000	449
11	851	740	631	e495	e500	e550	908	4120	3810	966	897	453
12	879	727	701	e470	e480	e550	766	4170	3780	988	895	562
13	870	522	663	e500	e500	e560	1130	3720	3340	970	895	555
14	874	531	651	e550	e480	e590	1340	3390	3120	831	913	525
15	838	422	670	e580	e485	e610	1470	2950	3040	843	894	497
16	833	761	630	e620	e500	e630	1450	2790	3030	844	685	562
17	839	742	665	e635	e521	e630	1630	2720	2990	853	617	572
18	831	689	414	e630	e542	e640	1820	2850	2820	830	531	533
19	873	684	514	e615	e520	668	2000	2990	2660	941	524	550
20	893	523	732	e580	e480	e670	2430	3100	2670	1180	380	577
21	883	484	e600	e560	e475	e640	2870	2930	2440	1270	368	585
22	868	276	e500	e530	e490	e650	2650	2970	2350	1370	351	600
23	863	272	e450	e510	e520	e700	2280	3060	2250	1410	321	616
24	858	581	e410	e495	e560	e750	1970	2980	2140	1330	442	682
25	859	685	e470	e500	e550	e830	1900	3170	2010	1290	495	692
26	853	680	e600	e470	e520	e880	1910	3310	2190	1280	488	673
27	854	676	e710	e495	e498	e900	1850	3380	2240	1190	403	660
28	847	463	e690	e500	e485	e830	1780	3440	2030	1160	468	654
29	812	444	e710	e540	---	e730	1700	3570	1730	1260	446	617
30	321	420	e660	e582	---	e660	1980	3600	1600	1240	424	668
31	432	---	e600	e535	---	e620	---	3580	---	1200	422	---
TOTAL	25535	17454	19278	17057	14116	19918	43630	102690	82510	35716	22063	16808
MEAN	824	582	622	550	504	643	1454	3313	2750	1152	712	560
MAX	916	890	902	700	560	900	2870	4170	3810	1510	1110	692
MIN	321	272	397	470	475	495	567	2260	1600	830	321	426
ACFT	50650	34620	38240	33830	28000	39510	86540	203700	163700	70840	43760	33340
CAL YR 1984	TOTAL	501562	MEAN	1370	MAX	6150	MIN	270	ACFT	994800		
WTR YR 1985	TOTAL	416775	MEAN	1142	MAX	4170	MIN	272	ACFT	826700		

e Estimated.

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1976 to current year.

WATER TEMPERATURES: October 1976 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1976 to current year.

INSTRUMENTATION.--Specific conductance and temperature recorder since October 1976.

REMARKS.--Sediment loads computed based on U.S.P.S. 69 pumping sediment sampler concentrations for days where concentrations are given.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded (more than 20 percent missing record), 1,570 microsiemens July 22, 1977; minimum recorded, 120 microsiemens April 29, 1981.

WATER TEMPERATURES: Maximum recorded (more than 20 percent missing record), 31.0°C Aug. 9, 1978; minimum, 0.0°C on many days during winter period.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 61,000 mg/L Sept. 8, 1978; minimum daily mean, 40 mg/L Sept. 21, 1983.

SEDIMENT LOADS: Maximum daily, 412,000 tons Sept. 8, 1978; minimum daily, 1.0 ton July 2, 3, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,410 microsiemens Apr. 4, but may have been higher during instrument malfunction Apr. 7 - Sept. 30; minimum recorded, 427 microsiemens, Mar. 17, but may have been lower during instrument malfunction Apr. 7 - Sept. 30.

WATER TEMPERATURES: Maximum recorded, 25.0°C Aug. 22, 29; minimum, 0.0°C several days during winter period.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 20,400 mg/L Sept. 12; minimum daily mean, 180 mg/L Sept. 10.

SEDIMENT LOADS: Maximum daily, 141,000 tons June 8; minimum daily, 292 tons Jan. 19.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)
FEB 13...	1545	673	1030	8.2	0.0	0.0	11.6	641	380	375
APR 02...	1130	563	1100	8.4	19.5	8.5	9.5	646	410	413
MAY 28...	1345	3560	500	8.4	29.5	14.5	8.4	638	220	215
JUN 27...	1250	2340	460	8.3	21.5	16.0	8.2	649	200	201

DATE	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)
FEB 13...	140	86	39	70	29	2	2.0	233	260
APR 02...	170	88	47	93	33	2	2.5	242	330
MAY 28...	75	50	22	28	22	0.9	1.5	140	120
JUN 27...	65	49	19	26	22	0.8	1.5	136	100

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04)
FEB 13...	18	0.3	17	500	0.67	902	0.62	0.02	0.06
APR 02...	28	0.3	13	750	1.0	1140	0.66	0.01	0.03
MAY 28...	6.6	0.2	12	320	0.44	3120	0.67	0.01	0.03
JUN 27...	6.9	0.2	13	300	0.4	1880	0.31	0.02	0.06

GREEN RIVER BASIN

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
FEB		
13...	1545	70
APR		
02...	1130	80
MAY		
28...	1345	30
JUN		
27...	1250	40

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	689	669	678	---	---	---	896	886	888	661	640	649
2	941	681	751	781	741	762	922	893	900	677	637	654
3	794	684	762	862	752	796	909	819	859	673	643	661
4	887	777	836	843	823	837	825	805	814	669	649	657
5	850	790	811	824	804	818	841	801	825	666	656	661
6	---	---	---	855	755	796	858	828	843	662	642	651
7	---	---	---	889	799	845	884	864	875	648	628	636
8	758	719	738	893	823	858	900	780	872	654	624	632
9	751	691	710	827	797	810	836	786	807	681	641	664
10	704	684	689	831	801	821	783	763	774	687	677	678
11	697	677	688	845	825	835	769	749	759	683	640	671
12	800	680	698	879	839	858	755	735	748	649	619	634
13	---	---	---	---	---	---	791	731	756	646	616	634
14	---	---	---	987	847	887	828	738	749	992	642	838
15	803	763	788	881	841	860	884	770	798	998	948	976
16	784	764	778	875	705	764	770	750	756	974	925	954
17	775	745	762	738	709	722	766	747	754	951	901	927
18	756	746	751	762	702	735	793	753	765	927	877	901
19	787	727	737	736	686	717	819	760	797	903	883	896
20	738	718	732	750	690	716	765	715	743	920	900	908
21	749	719	731	794	724	759	712	692	694	1030	916	938
22	760	730	748	888	758	801	718	688	703	1050	1010	1030
23	771	741	759	942	852	893	724	704	713	1060	1030	1040
24	772	752	758	956	766	861	720	710	714	1050	1010	1030
25	763	733	746	830	760	789	747	707	723	1030	991	1010
26	764	724	743	814	794	806	743	713	729	1020	977	999
27	785	745	760	818	778	800	719	699	709	1000	964	984
28	766	726	746	832	792	812	715	675	703	980	920	970
29	767	687	753	856	830	851	672	632	659	966	896	923
30	968	758	851	890	850	873	658	628	645	982	952	964
31	969	839	918	---	---	---	664	634	649	1050	979	993

101

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

[illegible]

GREEN RIVER BASIN

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	12.0	10.0	11.5	6.0	4.0	5.0	1.0	.0	.0	.0	.0	.0
2	13.5	11.0	12.0	6.0	4.0	5.0	.0	.0	.0	.0	.0	.0
3	13.5	11.0	12.5	7.0	5.0	5.5	.0	.0	.0	.0	.0	.0
4	13.5	13.0	13.0	6.5	3.5	5.0	.0	.0	.0	.0	.0	.0
5	15.0	12.5	13.5	6.0	3.5	4.5	.0	.0	.0	.0	.0	.0
6	14.0	12.0	13.0	6.5	4.5	5.0	.0	.0	.0	.0	.0	.0
7	13.5	11.0	12.5	6.0	4.5	5.5	.0	.0	.0	.0	.0	.0
8	13.5	11.0	12.5	5.0	4.0	4.5	.0	.0	.0	.0	.0	.0
9	13.0	10.5	12.0	4.5	3.5	4.0	.0	.0	.0	.0	.0	.0
10	12.5	10.0	12.0	4.0	2.0	3.0	.0	.0	.0	.0	.0	.0
11	13.5	10.0	12.0	4.5	3.5	4.0	.0	.0	.0	.0	.0	.0
12	13.0	11.0	12.0	4.5	3.0	3.5	.5	.0	.0	.0	.0	.0
13	11.0	9.0	10.5	5.0	3.5	4.5	.5	.0	.0	.0	.0	.0
14	10.5	9.0	9.5	5.0	3.5	4.0	.0	.0	.0	.0	.0	.0
15	9.0	6.0	7.0	4.0	1.5	2.5	.0	.0	.0	.0	.0	.0
16	6.5	5.0	5.5	2.5	1.5	2.0	.5	.0	.0	.0	.0	.0
17	4.5	2.5	4.0	3.5	2.0	2.5	.0	.0	.0	.0	.0	.0
18	3.5	1.5	2.5	3.0	1.5	2.5	.0	.0	.0	.0	.0	.0
19	3.0	2.0	2.5	2.5	1.0	2.0	.0	.0	.0	.0	.0	.0
20	3.0	2.5	2.5	2.5	.5	1.5	.0	.0	.0	.0	.0	.0
21	4.0	2.5	3.0	3.0	.5	1.5	.0	.0	.0	.0	.0	.0
22	3.0	1.5	2.5	3.0	.5	1.5	.0	.0	.0	.0	.0	.0
23	3.5	2.0	2.5	2.0	.5	1.0	.0	.0	.0	.0	.0	.0
24	3.5	1.5	2.5	1.5	.0	.5	.0	.0	.0	.0	.0	.0
25	3.5	1.5	2.5	2.0	.5	1.0	.0	.0	.0	.0	.0	.0
26	6.5	1.5	3.5	1.5	.0	.5	.0	.0	.0	.0	.0	.0
27	6.5	5.5	6.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
28	5.5	4.0	5.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0
29	6.0	4.0	5.5	1.0	.0	.5	.0	.0	.0	.0	.0	.0
30	7.5	4.5	6.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
31	7.0	5.5	6.0	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	15.0	1.5	7.5	7.0	.0	3.0	1.0	.0	.0	.0	.0	.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.0	.0	.0	.0	.0	.0	7.0	4.0	5.5	14.5	11.0	13.0
2	.0	.0	.0	.0	.0	.0	11.0	6.0	7.5	14.5	11.0	13.0
3	.0	.0	.0	.0	.0	.0	9.0	6.5	7.5	13.5	11.0	12.5
4	.0	.0	.0	.0	.0	.0	7.5	5.5	6.5	14.0	11.0	12.5
5	.0	.0	.0	.0	.0	.0	7.5	4.5	6.0	13.0	9.5	11.5
6	.0	.0	.0	.0	.0	.0	9.0	6.0	7.5	13.5	10.5	12.0
7	.0	.0	.0	.0	.0	.0	10.0	7.5	9.0	15.0	11.5	13.0
8	.0	.0	.0	.0	.0	.0	11.0	8.5	9.5	14.0	11.0	12.5
9	.0	.0	.0	.0	.0	.0	12.0	10.0	11.0	12.5	9.0	11.5
10	.0	.0	.0	.0	.0	.0	12.0	9.5	11.0	13.0	11.0	12.0
11	.0	.0	.0	.0	.0	.0	12.0	10.0	11.5	12.5	10.5	11.5
12	.0	.0	.0	.0	.0	.0	13.5	11.5	12.5	12.5	10.0	11.5
13	.0	.0	.0	.0	.0	.0	14.5	11.0	12.5	11.5	9.5	10.5
14	.0	.0	.0	.0	.0	.0	13.5	9.5	12.0	12.0	9.0	10.5
15	.0	.0	.0	.0	.0	.0	13.0	9.0	11.5	12.5	8.5	10.5
16	.0	.0	.0	.0	.0	.0	14.5	9.5	11.5	12.5	9.0	11.0
17	.0	.0	.0	.0	.0	.0	13.5	9.5	12.0	14.0	10.0	12.0
18	.0	.0	.0	.0	.0	.0	13.0	9.0	11.5	14.5	11.0	13.0
19	.0	.0	.0	.0	.0	.0	13.0	11.0	11.5	15.5	11.5	13.5
20	.0	.0	.0	3.0	.0	1.0	11.5	10.0	10.5	15.5	12.5	14.0
21	.0	.0	.0	2.5	.0	1.5	10.5	9.0	10.0	14.5	12.5	13.5
22	.0	.0	.0	3.0	.0	1.5	9.5	7.0	8.5	15.5	11.5	13.5
23	.0	.0	.0	4.0	1.0	2.5	10.5	7.0	9.0	16.0	12.5	14.5
24	.0	.0	.0	4.5	2.0	3.5	11.0	8.0	10.0	16.0	13.0	14.5
25	.0	.0	.0	5.5	2.5	4.0	10.5	7.0	8.0	15.5	12.5	14.5
26	.0	.0	.0	5.0	3.0	4.5	9.0	7.0	8.0	16.5	13.0	15.0
27	.0	.0	.0	4.0	2.0	3.0	10.5	6.5	9.0	16.5	13.0	15.0
28	.0	.0	.0	3.0	1.5	2.0	11.5	7.5	10.0	16.0	12.5	14.5
29	---	---	---	2.5	.5	1.0	11.0	8.0	10.0	16.0	12.5	14.5
30	---	---	---	4.5	1.0	2.5	14.0	10.5	12.5	15.5	12.0	14.0
31	---	---	---	6.5	4.0	5.0	---	---	---	14.5	12.5	13.5
MONTH	.0	.0	.0	6.5	.0	1.0	14.5	4.0	10.0	16.5	8.5	13.0

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	14.5	12.5	13.5	19.5	16.0	18.0	22.0	20.0	21.0	21.0	21.0	21.0
2	15.0	11.5	13.5	20.0	17.0	18.5	22.0	20.0	21.0	---	---	---
3	15.5	11.5	13.5	21.0	17.5	19.5	22.5	19.5	21.0	---	---	---
4	16.5	11.5	14.5	21.0	17.5	19.5	22.5	20.0	21.0	---	---	---
5	17.0	13.5	15.5	21.5	18.0	20.0	23.0	20.5	21.5	---	---	---
6	18.0	13.5	16.0	21.5	18.5	20.5	23.5	20.5	22.0	---	---	---
7	18.5	14.0	16.5	22.0	19.5	21.0	23.0	21.0	22.0	---	---	---
8	19.0	14.5	17.0	22.5	20.0	21.5	22.0	19.5	21.0	---	---	---
9	19.0	15.5	17.5	23.5	20.5	22.0	22.5	20.5	21.5	---	---	---
10	19.0	15.5	17.5	23.5	20.5	22.5	21.5	19.0	20.5	---	---	---
11	18.5	15.5	17.0	23.0	21.5	22.0	20.5	18.5	20.0	---	---	---
12	18.0	14.0	16.5	23.5	21.0	22.5	21.0	17.0	19.0	---	---	---
13	18.0	14.0	16.0	24.0	21.0	22.5	21.5	19.0	20.0	---	---	---
14	18.5	14.0	16.5	24.0	22.0	23.0	21.5	19.0	20.0	---	---	---
15	19.0	14.5	17.0	24.0	22.0	23.0	21.0	18.5	20.0	---	---	---
16	19.0	15.0	17.0	23.5	21.0	22.5	21.5	18.0	19.5	---	---	---
17	19.5	15.0	17.5	24.0	21.5	22.5	22.0	17.5	20.0	---	---	---
18	19.0	16.0	17.5	24.0	22.5	23.0	24.0	19.0	21.5	---	---	---
19	19.5	15.5	17.5	23.5	22.0	22.5	23.0	19.5	21.0	---	---	---
20	19.0	15.0	17.5	23.0	22.0	22.5	23.5	18.0	21.0	---	---	---
21	20.0	16.0	18.0	22.5	20.5	21.5	24.5	20.0	22.0	---	---	---
22	20.0	16.0	18.0	22.0	20.5	21.5	25.0	20.0	22.5	---	---	---
23	20.0	16.0	18.5	22.5	20.0	21.5	24.0	19.0	21.5	---	---	---
24	19.5	16.5	18.0	23.0	20.0	21.5	23.5	18.0	20.5	---	---	---
25	18.0	16.0	16.5	23.0	20.0	21.5	23.0	18.0	20.5	---	---	---
26	18.5	14.5	16.5	23.0	20.5	22.0	23.0	18.5	21.0	---	---	---
27	18.5	15.0	17.0	22.5	20.0	21.5	23.5	19.5	21.5	---	---	---
28	18.5	14.5	17.0	22.0	20.5	21.0	24.5	19.5	22.0	---	---	---
29	18.0	14.5	16.5	20.5	18.0	20.0	25.0	20.0	22.5	---	---	---
30	19.0	15.0	17.0	21.5	18.5	20.0	24.0	19.5	22.0	---	---	---
31	---	---	---	22.5	20.0	21.5	24.0	20.0	22.0	---	---	---
MONTH	20.0	11.5	16.5	24.0	16.0	21.5	25.0	17.0	21.0	21.0	21.0	21.0
YEAR	25.0	.0	8.5									

SEDIMENT, SUSPENDED CONCENTRATION (MG/L), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	500	1070	465	875	130	139	125	186	85	117	109	146
2	590	1310	540	1300	130	155	125	177	85	109	113	159
3	450	1030	255	386	160	319	120	162	85	109	108	160
4	405	823	140	177	160	390	120	159	85	115	108	181
5	445	968	130	167	150	283	120	165	85	122	106	169
6	465	1100	150	239	145	222	115	194	85	122	105	159
7	440	1080	110	131	140	193	110	208	85	119	107	162
8	430	1060	170	249	155	311	100	178	85	114	107	166
9	430	1050	305	604	150	358	90	141	85	110	107	169
10	440	1050	185	366	150	293	90	128	85	114	103	160
11	505	1160	160	320	145	247	100	134	85	115	250	371
12	515	1220	140	275	140	265	100	127	85	110	810	1200
13	450	1060	160	226	135	242	100	135	85	115	945	1430
14	380	897	110	158	135	237	100	148	105	136	835	1330
15	280	634	120	137	135	244	100	157	130	170	750	1240
16	220	495	285	586	135	230	100	167	120	162	960	1630
17	180	408	265	531	135	242	90	154	122	172	1350	2300
18	180	404	245	456	135	151	95	162	120	176	2330	4030
19	220	519	190	351	150	208	90	149	118	166	2600	4690
20	195	470	165	233	250	494	90	141	120	156	2000	3620
21	199	474	160	209	200	324	90	136	109	140	1330	2300
22	165	387	150	112	160	216	90	129	105	139	770	1350
23	150	350	135	99	150	182	90	124	106	149	800	1510
24	153	354	165	259	145	161	90	120	102	154	815	1650
25	190	441	155	287	140	178	90	121	107	159	830	1860
26	200	461	145	266	135	219	95	121	110	154	820	1950
27	340	784	150	274	130	249	95	127	104	140	840	2040
28	260	595	145	181	150	279	95	128	107	140	780	1750
29	255	559	132	158	135	259	95	139	---	---	665	1310
30	230	199	128	145	130	232	95	149	---	---	560	998
31	265	309	---	---	130	211	90	130	---	---	555	929
TOTAL	---	22721	---	9757	---	7733	---	4596	---	3804	---	41119

GREEN RIVER BASIN

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

SEDIMENT, SUSPENDED CONCENTRATION (MG/L), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	715	1120	1780	10900	1390	12600	214	872	770	2310	90	104
2	640	980	1890	12800	1290	10700	263	1020	590	1660	95	117
3	740	1150	2010	14900	1260	9560	262	962	520	1400	152	271
4	1350	2560	2460	21000	1130	8480	255	909	460	1220	107	179
5	1560	3830	3230	31000	1000	7480	251	861	415	1090	114	167
6	885	2130	3960	40800	930	7010	239	800	415	1140	95	128
7	880	2100	5000	55600	940	7230	204	655	390	1050	62	73
8	790	1900	4640	47500	910	7030	178	533	400	1120	62	74
9	830	2010	5570	58200	1210	10500	152	415	370	1040	60	72
10	810	1970	5720	63000	1500	15100	156	434	355	958	43	52
11	1100	2700	5830	64900	1380	14200	148	386	295	714	47	57
12	1500	3100	5900	66400	1260	12900	132	352	270	652	100	152
13	2430	7410	5370	53900	1020	9200	128	335	240	580	107	160
14	2850	10300	5280	48300	920	7750	120	269	220	542	115	163
15	2450	9720	4320	34400	865	7100	132	300	191	461	108	145
16	2080	8140	3740	28200	850	6950	140	319	159	294	133	202
17	2800	12300	2970	21800	725	5850	175	403	156	260	122	188
18	3280	16100	2580	19900	715	5440	195	437	138	198	116	167
19	3780	20400	2180	17600	730	5240	980	2490	132	187	113	168
20	5050	33100	2120	17700	745	5370	2880	9180	110	113	110	171
21	4830	37400	1900	15000	665	4380	4730	16200	105	104	105	166
22	3640	26000	2280	18300	680	4310	3020	11200	103	98	105	170
23	2390	14700	1950	16100	680	4130	2030	7730	100	87	100	166
24	1990	10600	1680	13500	670	3870	960	3450	107	128	102	188
25	1840	9440	1720	14700	665	3610	555	1930	106	142	100	187
26	1550	7990	1730	15500	715	4230	470	1620	100	132	105	191
27	1200	5990	1690	15400	900	5440	460	1480	95	103	107	191
28	1280	6150	1740	16200	990	5430	500	1570	90	114	105	185
29	1220	5600	1770	17100	340	1590	3300	11200	97	117	103	172
30	1830	9780	1540	15000	310	1340	2610	8740	94	108	113	204
31	---	---	1510	14600	---	---	970	3140	88	100	---	---
TOTAL	---	276670	---	900200	---	214020	---	90192	---	18222	---	4630

TOTAL LOAD FOR YEAR: 1593664 TONS.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

		STEAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	
MAR 28...	1500	840	3.0	761	1730	23	25	
MAY 09...	1530	3820	12.0	4640	47900	21	26	
DATE		SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .125 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .250 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .500 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN 1.00 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN 2.00 MM
MAR 28...	38	60	84	100	--	--	--	--
MAY 09...	39	67	85	95	98	99	100	100

GREEN RIVER BASIN

105

09306800 BITTER CREEK NEAR BONANZA, UT

LOCATION.--Lat 39°45'12", long 109°21'15", in SE1/4SW1/4SW1/4 sec.21, T.12 S., R.23 E., Uintah County, Hydrologic Unit 14050007, on left bank 150 ft upstream from road culvert, 3 mi downstream from Sweetwater Canyon Creek, 17 mi upstream from mouth, and 18 mi south-southwest of Bonanza.

DRAINAGE AREA.--324 mi².

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,570 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Small reservoirs on tributaries above station.

AVERAGE DISCHARGE.--15 years, 4.03 ft³/s, 2,920 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,790 ft³/s Sept. 5, 1982, gage height, 13.82 ft from floodmarks, datum then in use; rating curve extended above 6 ft³/s on basis of slope-area measurement of peak flow; no flow for many days most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 25 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 11	1645	30	6.96	July 29	1830	*268	*13.71

Minimum daily, 5.5 ft³/s Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	14	e15	e13	e8.0	e17	e19	24	24	14	e14	5.7
2	20	14	e15	e13	e9.0	e16	e18	24	23	15	e14	5.7
3	16	14	e15	e11	e10	e16	18	24	22	15	e14	5.9
4	16	14	e15	e11	e11	e16	17	24	22	15	e14	6.0
5	16	14	e14	e12	e12	e16	15	24	22	15	14	5.8
6	15	14	e13	e13	e12	e16	14	25	20	14	14	5.6
7	14	15	e13	e14	e13	e17	14	26	20	14	14	5.6
8	14	14	e13	e15	e13	e18	15	26	19	15	13	5.9
9	14	15	e13	e16	e14	e19	16	26	18	14	13	5.9
10	14	15	e14	e15	e18	e20	16	28	18	14	13	5.7
11	14	14	e15	e14	e16	e20	16	30	18	14	13	6.0
12	14	15	e15	e13	e17	e19	15	29	17	14	13	6.9
13	15	15	e14	e11	e18	e19	16	29	17	15	13	6.7
14	15	15	e14	e12	e16	e18	16	28	17	15	13	6.3
15	15	14	e13	e13	e16	e18	18	28	17	14	9.2	6.0
16	15	15	e14	e14	e16	e18	19	26	16	15	8.1	6.3
17	15	15	e14	e15	e16	e19	19	26	16	15	7.4	5.9
18	15	16	e15	e15	e16	e19	20	26	16	17	6.9	5.8
19	15	16	e17	e15	e17	e20	22	26	16	16	6.7	7.0
20	16	16	e15	e15	e17	e19	23	26	15	16	6.3	6.9
21	16	16	e14	e15	e17	e18	24	26	15	18	6.9	6.5
22	15	15	e12	e13	e16	e18	24	26	14	18	8.3	6.2
23	15	16	e12	e13	e15	e18	23	25	14	18	6.8	6.1
24	15	16	e12	e13	e15	e18	23	25	14	17	6.2	6.0
25	15	15	e13	e14	e16	e19	24	25	15	16	6.1	5.8
26	15	15	e14	e14	e16	e19	24	25	16	16	6.0	5.8
27	15	e13	e15	e15	e16	e19	24	24	16	16	6.0	5.7
28	15	e13	e16	e15	e17	e19	24	24	15	16	6.2	5.7
29	15	e15	e16	e16	---	e19	24	23	15	e71	6.1	5.5
30	15	e15	e15	e15	---	e19	24	23	14	e16	5.9	5.7
31	15	---	e15	e14	---	e19	---	23	---	e15	5.8	---
TOTAL	468	443	440	427	413.0	565	584	794	521	533	303.9	180.6
MEAN	15.1	14.8	14.2	13.8	14.7	18.2	19.5	25.6	17.4	17.2	9.80	6.02
MAX	20	16	17	16	18	20	24	30	24	71	14	7.0
MIN	14	13	12	11	8.0	16	14	23	14	14	5.8	5.5
ACFT	928	879	873	847	819	1120	1160	1570	1030	1060	603	358
CAL YR 1984	TOTAL	5590.5	MEAN	15.3	MAX	39	MIN	6.2	ACFT	11090		
WTR YR 1985	TOTAL	5672.5	MEAN	15.5	MAX	71	MIN	5.5	ACFT	11250		

e Estimated.

GREEN RIVER BASIN

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT

LOCATION.--Lat 40°03'54", long 109°38'06", in SE1/4SE1/4NW1/4 sec.2, T.9 S., R.20 E., Uintah County, Hydrologic Unit 14050007, Uintah and Ouray Indian Reservation, on left bank 2.8 mi southeast of Ouray and 3.9 mi upstream from mouth.

DRAINAGE AREA.--5,120 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,655 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 33,200 acres above station.

AVERAGE DISCHARGE.--11 years, 816 ft³/s, 591,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,660 ft³/s June 10, 1984, gage height, 10.23 ft; minimum, 1.6 ft³/s July 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,560 ft³/s May 12, gage height, 9.08 ft; minimum daily, 362 ft³/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	812	534	e440	e600	e540	e480	868	2120	3600	1720	1110	422
2	1110	743	e410	e560	e500	e500	858	2330	3430	1710	1050	436
3	834	862	e440	e530	e470	e520	751	2520	3140	1660	1010	437
4	859	614	e700	e500	e470	e560	774	2730	3000	1620	979	607
5	827	557	e900	e500	e500	e600	911	3220	3020	1550	964	598
6	836	553	e700	e520	e540	e640	1060	3450	2990	1430	944	529
7	875	621	e600	e600	e520	e550	1070	3750	3080	1360	921	511
8	908	535	e520	e700	e500	e560	1080	3930	3170	1270	916	469
9	909	579	e700	e700	e500	e580	1110	3910	3290	1160	979	459
10	914	709	e900	e600	e500	e580	1110	3910	3680	1060	964	453
11	898	713	e740	e520	e500	e560	1140	4190	4150	1060	930	466
12	881	715	e604	e500	e470	e540	1120	4350	4140	1030	847	676
13	887	702	e701	e470	e490	e540	1130	4060	3800	1020	842	576
14	893	574	e680	e500	e460	e560	1480	3540	3310	1030	816	580
15	881	560	e670	e540	e470	e580	1640	3080	3110	925	816	571
16	864	509	e680	e580	e500	e600	1650	2840	3050	916	803	622
17	858	688	e640	e590	e500	e620	1700	2720	3060	930	654	581
18	864	679	e680	e640	e520	e640	1800	2730	3000	935	631	615
19	845	647	e420	e640	e540	e650	1820	2940	2830	1010	560	792
20	890	646	e500	e620	e520	e660	2060	3060	2720	1020	523	597
21	886	545	e660	e600	e480	e680	2390	3130	2540	1280	438	611
22	872	515	e600	e560	e480	e620	2720	3070	2410	1670	401	628
23	874	496	e500	e530	e500	e700	2390	3150	2440	1560	383	643
24	855	496	e450	e500	e520	e720	2110	3190	2440	1370	362	672
25	842	560	e400	e500	e560	e760	1820	3220	2410	1220	407	738
26	880	637	e450	e500	e580	e840	1740	3390	2190	1220	471	751
27	871	616	e580	e470	e520	831	1800	3530	2440	1180	485	742
28	858	585	e700	e500	e500	819	1760	3570	2250	1120	410	738
29	848	e500	e690	e500	---	791	1790	3640	2030	1150	441	733
30	798	e450	e700	e540	---	781	1850	3560	1790	1260	436	711
31	519	---	e660	e580	---	814	---	3610	---	1130	410	---
TOTAL	26748	18140	19015	17190	14150	19876	45502	102440	88510	38576	21903	17964
MEAN	863	605	613	555	505	641	1517	3305	2950	1244	707	599
MAX	1110	862	900	700	580	840	2720	4350	4150	1720	1110	792
MIN	519	450	400	470	460	480	751	2120	1790	916	362	422
ACFT	53050	35980	37720	34100	28070	39420	90250	203200	175600	76520	43440	35630
CAL YR 1984	TOTAL	522688	MEAN	1428	MAX	5550	MIN	280	ACFT	1037000		
WTR YR 1985	TOTAL	430014	MEAN	1178	MAX	4350	MIN	362	ACFT	852900		

e Estimated.

GREEN RIVER BASIN

107

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Daily sediment samples collected at bridge 3.4 mi downstream from gaging station and by U.S.P.S. pumping sediment sampler at gaging station since March 1977.

PERIOD OF RECORD.--February 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1976 to current year.

WATER TEMPERATURES: April 1977 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to September 1983.

REMARKS.--Specific-conductance and water-temperature recorders were not operated during the winter period. Prior to 1979 water year, specific conductance and water temperature values, published in "Hydrologic and Climatologic Data" reports for Utah.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded (more than 20 percent missing record), 1,900 microsiemens July 6, 1977; minimum recorded, 250 microsiemens Aug. 1, 3, 1982.

WATER TEMPERATURES: Maximum recorded (more than 20 percent missing record), 34.5°C June 26, 1981; minimum 0.0°C on many days during winter periods.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 48,400 mg/L Sept. 13, 1982; minimum daily mean, 20 mg/L Jan. 8, 1976.

SEDIMENT LOADS: Maximum daily, 268,000 tons Mar. 29, 1979; minimum daily, 0.69 ton July 2, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily mean recorded, 1,520 microsiemens Nov. 17; minimum daily mean recorded, 430 microsiemens Oct. 2.

WATER TEMPERATURES: Maximum recorded, 26.0°C several days during July and August; minimum, 0.0°C many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV 20...	1100	663	930	8.4	-2.0	1.0	43	12.2	653	K28
JAN 22...	1130	470	980	8.2	-5.0	0.0	16	11.6	654	K3
MAR 26...	1030	880	1080	8.4	11.5	8.0	520	9.8	642	--
MAY 15...	0900	3140	640	8.4	15.5	11.5	380	9.0	650	220
JUL 09...	1315	1180	670	8.5	32.5	24.5	110	7.0	654	24
SEP 12...	0930	750	740	8.6	9.5	12.0	0.2	3.8	652	--
DATE	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HCO3)
NOV 20...	K10	350	347	74	39	76	32	2	1.7	--
JAN 22...	48	360	362	79	40	79	32	2	1.9	266
MAR 26...	K8200	370	367	74	44	110	39	3	3.6	285
MAY 15...	K140000	250	251	54	28	43	27	1	2.1	256
JUL 09...	--	280	278	63	29	51	28	1	2.6	202
SEP 12...	K130000	97	97	24	9.1	130	74	6	3.6	1390

K Results based on colony count outside acceptable range (non-ideal colony count).

GREEN RIVER BASIN

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	CARBONATE IT-FLD (MG/L AS CO3)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLORIDE, DIS- SOLVED (MG/L AS CL)	FLUORIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
NOV 20...	--	--	270	18	0.2	12	629	610	0.86	1130
JAN 22...	0	218	270	18	0.3	15	648	630	0.88	822
MAR 26...	6.0	244	340	25	0.3	11	771	760	1.0	1830
MAY 15...	4.0	217	160	8.6	0.2	12	414	440	0.56	3510
JUL 09...	10	183	180	11	0.2	12	440	470	0.6	1400
SEP 12...	82	1280	190	17	0.4	10	472	1200	0.64	956

DATE	NITROGEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, DIS- SOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
NOV 20...	0.41	0.01	0.01	0.7	0.10	--	0.02	<0.01	--
JAN 22...	0.62	0.06	0.08	0.6	0.04	--	0.01	<0.01	--
MAR 26...	0.75	0.10	0.13	0.5	1.30	--	0.06	0.01	0.03
MAY 15...	0.95	0.05	0.06	1.0	1.10	3.4	0.01	0.01	0.03
JUL 09...	<0.10	0.02	0.03	0.6	0.35	1.1	<0.01	<0.01	--
SEP 12...	0.74	0.07	0.09	15	E24.0	--	E0.50	0.05	0.15

DATE	TIME	ALUMINUM, DIS- SOLVED (UG/L AS AL)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYLLIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM, DIS- SOLVED (UG/L AS CD)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV 20...	1100	<10	<1	59	<0.5	1	<1	<3	1	<3	<1
MAR 26...	1030	180	2	110	4	<1	<1	<3	2	160	5
MAY 15...	0900	90	<1	52	<0.5	<1	<1	<3	4	100	3
JUL 09...	1315	20	2	64	<0.5	<1	<1	<3	2	9	1

DATE	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY, DIS- SOLVED (UG/L AS HG)	MOLYBDENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELENIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRONTIUM, DIS- SOLVED (UG/L AS SR)	VANADIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 20...	24	4	<0.1	<10	3	3	<1	990	<6	7
MAR 26...	32	12	<0.1	<10	4	3	<1	1000	<6	54
MAY 15...	19	8	<0.1	<10	2	4	<1	620	<6	38
JUL 09...	18	2	<0.1	<10	<1	2	<1	680	<6	28

GREEN RIVER BASIN

109

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	490	460	475	---	---	---						
2	870	430	713	---	---	---						
3	1070	540	912	---	---	---						
4	1130	1060	1080	---	---	---						
5	1240	1070	1110	---	---	---						
6	1150	1090	1120	---	---	---						
7	1130	1070	1090	---	---	---						
8	1130	1040	1070	---	---	---						
9	1090	1020	1040	---	---	---						
10	1030	1010	1020	---	---	---						
11	1020	990	1000	---	---	---						
12	1020	990	1000	---	---	---						
13	1020	980	997	---	---	---						
14	1160	1000	1070	---	---	---						
15	1080	1040	1060	---	---	---						
16	1090	1080	1090	1510	1470	1490						
17	1090	1070	1080	1520	1410	1470						
18	1090	1070	1080	1450	1430	1440						
19	1080	1070	1070	1480	1450	1470						
20	1080	1050	1060	1470	940	1170						
21	1060	1040	1050	---	---	---						
22	1060	1030	1050	---	---	---						
23	1060	1050	1050	---	---	---						
24	1070	1060	1060	---	---	---						
25	1080	1060	1070	---	---	---						
26	1080	670	968	---	---	---						
27	---	---	---	---	---	---						
28	---	---	---	---	---	---						
29	---	---	---	---	---	---						
30	---	---	---	---	---	---						
31	1180	1050	1120	---	---	---						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1							1160	1140	1150	1010	958	974
2							1180	1150	1170	953	903	933
3							1250	1180	1220	907	857	885
4							1280	1240	1250	861	821	840
5							1280	1210	1240	836	786	811
6							1210	1140	1160	820	770	796
7							1140	1120	1130	---	---	---
8							1150	1130	1140	---	---	---
9							1160	1140	1150	---	---	---
10							1160	1140	1150	---	---	---
11							1150	1110	1130	---	---	---
12							1140	1110	1130	---	---	---
13							1180	1120	1150	---	---	---
14							1120	1040	1070	---	---	---
15							1040	1010	1030	---	---	---
16							1020	996	1010	---	---	---
17							1010	946	981	---	---	---
18							977	907	946	---	---	---
19							938	868	898	---	---	---
20							878	839	856	---	---	---
21							909	779	831	---	---	---
22							800	760	776	---	---	---
23							811	771	794	---	---	---
24							851	821	831	---	---	---
25							912	842	881	---	---	---
26							913	873	894	---	---	---
27							944	914	924	---	---	---
28							944	934	937	---	---	---
29							970	945	956	---	---	---
30							994	954	970	---	---	---
31							---	---	---	---	---	---

GREEN RIVER BASIN

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1				---	---	---	---	---	---	---	---	---
2				---	---	---	1120	1110	1110	---	---	---
3				---	---	---	1120	1110	1120	---	---	---
4				---	---	---	1120	1110	1120	---	---	---
5				---	---	---	1130	1110	1120	---	---	---
6				---	---	---	1130	1110	1120	---	---	---
7				---	---	---	1130	1120	1120	---	---	---
8				---	---	---	1130	1120	1120	---	---	---
9				---	---	---	1140	1120	1130	---	---	---
10				---	---	---	1140	1120	1130	---	---	---
11				---	---	---	1140	1120	1130	---	---	---
12				---	---	---	1140	1120	1130	---	---	---
13				---	---	---	1140	1120	1130	---	---	---
14				---	---	---	1140	1130	1130	---	---	---
15				---	---	---	1140	1120	1130	---	---	---
16				---	---	---	1130	1120	1130	---	---	---
17				---	---	---	1140	1120	1130	---	---	---
18				---	---	---	1140	1120	1130	---	---	---
19				---	---	---	1140	1120	1130	---	---	---
20				---	---	---	1140	1130	1130	---	---	---
21				---	---	---	1150	1130	1140	---	---	---
22				---	---	---	1150	1130	1140	---	---	---
23				---	---	---	1160	1140	1150	---	---	---
24				---	---	---	1160	1140	1150	---	---	---
25				---	---	---	1160	1150	1160	---	---	---
26				---	---	---	1160	1150	1150	---	---	---
27				---	---	---	1160	1150	1150	---	---	---
28				1110	1060	1090	---	---	---	---	---	---
29				1110	1080	1100	---	---	---	---	---	---
30				1130	1100	1110	---	---	---	1160	1090	1130
31				1130	1100	1110	---	---	---	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	13.5	11.5	12.5	7.0	4.0	5.5						
2	14.0	11.5	12.5	6.0	4.0	5.0						
3	15.0	12.5	13.5	6.5	4.5	5.5						
4	15.5	13.0	14.0	7.0	4.0	5.5						
5	16.0	13.5	14.5	6.0	4.0	5.0						
6	16.0	13.5	15.0	6.0	4.5	5.0						
7	15.5	13.5	14.5	6.0	5.0	5.5						
8	14.5	12.5	13.5	6.0	5.0	5.5						
9	15.0	12.5	13.5	5.5	3.5	4.5						
10	15.0	12.5	14.0	4.0	2.0	3.0						
11	14.0	12.0	13.0	4.0	2.0	3.0						
12	13.5	11.5	12.5	4.0	2.0	3.5						
13	12.5	10.5	11.5	5.5	3.5	4.5						
14	11.5	10.0	11.0	5.5	4.0	4.5						
15	9.5	7.5	9.0	4.5	2.5	3.5						
16	8.5	6.0	7.0	3.0	2.0	2.5						
17	7.0	6.0	6.5	3.5	1.5	2.5						
18	7.0	5.0	5.5	3.0	1.0	2.0						
19	6.5	4.0	5.0	2.5	.5	1.5						
20	6.5	5.0	5.5	1.5	.5	1.0						
21	6.5	5.0	5.5	---	---	---						
22	6.5	4.5	5.5	---	---	---						
23	6.5	4.0	5.0	---	---	---						
24	5.5	4.0	4.5	---	---	---						
25	6.0	3.5	5.0	---	---	---						
26	6.5	4.0	5.5	---	---	---						
27	7.0	5.5	6.0	---	---	---						
28	6.5	4.5	5.5	---	---	---						
29	7.0	4.5	5.5	---	---	---						
30	7.5	5.0	6.5	---	---	---						
31	7.0	5.5	6.0	---	---	---						

GREEN RIVER BASIN

111

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1							9.0	7.5	9.0	16.5	14.0	15.0
2							11.0	7.0	9.0	17.0	14.5	16.0
3							12.0	8.5	10.5	16.5	14.5	15.5
4							10.5	8.0	9.0	16.0	13.0	14.5
5							9.5	6.0	8.0	16.5	14.0	15.0
6							10.5	7.0	9.0	15.5	13.5	14.5
7							11.5	8.0	10.0	15.5	13.0	14.0
8							12.5	9.0	11.0	15.5	13.5	14.0
9							14.5	11.0	12.5	13.5	12.5	13.0
10							14.5	11.5	13.0	13.0	12.0	12.5
11							14.0	11.5	12.5	13.5	12.0	12.5
12							14.5	11.5	13.0	13.0	12.0	12.5
13							15.0	11.5	13.5	13.0	11.0	12.0
14							14.0	11.5	13.0	13.0	11.0	12.0
15							14.5	12.5	13.5	14.5	11.5	13.0
16							14.0	12.5	13.5	14.5	11.5	13.0
17							13.5	12.5	13.0	14.5	11.5	13.0
18							13.5	12.0	13.0	15.0	13.0	14.0
19							12.5	11.5	12.0	16.0	13.0	14.5
20							11.5	9.5	10.5	16.0	14.0	15.0
21							11.5	9.5	10.5	16.0	14.0	15.0
22							10.5	9.5	10.0	16.5	14.0	15.0
23							10.5	7.5	9.0	17.5	14.5	16.0
24							11.5	9.0	10.0	17.5	15.0	16.5
25							11.0	8.0	9.0	17.0	15.0	16.0
26							8.0	7.0	7.5	17.0	14.5	16.0
27							11.0	7.0	9.0	17.5	15.0	16.5
28							13.5	10.0	12.0	17.0	15.0	16.0
29							14.5	11.5	13.0	16.5	14.5	15.5
30							15.0	12.5	14.0	16.0	13.5	14.5
31							---	---	---	15.0	14.0	14.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	15.5	13.5	14.5	21.0	18.5	20.0	24.0	21.5	22.5	25.0	21.0	23.0
2	16.5	13.5	15.0	22.0	19.5	21.0	23.5	21.0	22.0	23.0	21.0	22.0
3	16.0	14.5	15.0	23.5	20.5	22.0	24.0	20.5	22.0	24.0	19.0	21.5
4	17.5	13.5	15.5	23.5	21.0	22.0	24.5	21.0	22.5	21.5	19.5	20.5
5	18.0	15.0	16.5	23.5	21.0	22.5	24.5	21.5	23.0	20.5	17.0	19.0
6	19.0	16.0	17.5	24.0	21.0	22.5	25.0	21.5	23.0	20.0	16.5	18.5
7	20.0	16.5	18.5	23.5	21.0	22.0	25.0	22.0	23.5	18.0	16.5	17.0
8	20.5	17.5	19.0	24.5	21.0	22.5	24.5	21.5	23.0	20.0	14.5	17.5
9	20.0	17.5	19.0	25.5	22.0	23.5	23.5	21.0	22.0	21.0	16.5	18.5
10	20.5	18.0	19.0	26.0	22.5	24.0	23.5	19.5	21.5	18.5	16.0	17.0
11	19.5	17.5	18.5	26.0	23.0	24.5	21.0	18.5	20.0	15.5	13.5	15.0
12	19.5	17.5	18.5	24.5	22.5	23.5	21.0	16.5	19.0	15.0	11.0	13.5
13	19.5	17.0	18.5	25.5	22.0	23.5	22.0	18.0	20.0	16.5	13.5	15.0
14	19.5	17.0	18.0	26.0	22.5	24.5	23.0	19.0	20.5	17.5	14.0	15.5
15	20.0	16.5	18.5	26.0	23.0	24.5	23.0	19.0	21.0	19.0	15.5	17.0
16	19.5	17.5	18.5	25.5	22.5	24.0	22.0	19.0	20.5	20.0	15.5	17.5
17	20.5	17.0	18.5	25.5	22.0	23.5	23.0	18.5	20.5	18.0	16.0	17.0
18	20.5	18.0	19.5	25.5	22.5	24.0	23.5	20.0	22.0	16.0	14.5	15.5
19	20.5	18.5	19.5	24.5	22.5	23.5	24.5	21.0	22.5	16.0	13.0	14.5
20	20.0	18.5	19.5	24.5	23.0	23.5	25.0	20.0	22.5	16.5	14.0	15.5
21	20.5	17.5	19.0	23.5	22.0	22.5	25.0	20.5	22.5	15.5	13.5	14.5
22	21.0	18.0	19.5	22.5	21.0	21.5	26.0	20.5	23.0	15.5	13.5	14.5
23	21.0	18.5	20.0	23.0	20.0	21.5	25.5	19.5	22.5	15.0	12.0	13.5
24	21.0	19.0	19.5	24.0	21.0	22.5	25.0	19.5	22.5	15.0	12.5	13.5
25	19.0	16.0	17.5	24.5	22.0	23.5	24.5	19.0	22.0	15.0	12.0	13.5
26	18.0	14.5	16.0	25.0	22.0	23.5	23.5	20.0	22.0	15.0	12.0	13.5
27	19.5	16.5	18.0	24.5	22.5	23.5	21.5	20.5	21.0	14.5	12.5	13.5
28	20.0	17.5	19.0	24.0	21.5	22.5	26.0	20.5	23.0	15.0	13.0	14.0
29	20.0	18.0	19.0	22.5	20.5	21.5	25.5	21.0	23.0	13.0	10.5	12.0
30	20.0	17.5	19.0	21.0	19.0	20.0	24.5	21.0	23.0	12.0	9.0	11.0
31	---	---	---	23.0	19.0	21.0	25.0	20.5	22.5	---	---	---

GREEN RIVER BASIN

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
JUL 09...	1315	1180	24.5	--	81	258
SEP 12...	0930	750	12.0	95	28200	57100

GREEN RIVER BASIN

113

09308500 MINNIE MAUD CREEK NEAR MYTON, UT

LOCATION.--Lat 39°47'55", long 110°33'55", in SE1/4SE1/4SW1/4 sec.3, T.12 S., R.12 E., Carbon County, Hydrologic Unit 14060005, on left bank 38.4 mi southwest of Myton.

DRAINAGE AREA.--32.0 mi².

PERIOD OF RECORD.--August 1950 to September 1955, September 1957 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,190 ft by barometer.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversion above station.

AVERAGE DISCHARGE.--33 years, 5.85 ft³/s, 4,240 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge unknown, occurred Oct. 13, 1975, gage height, 11.67 ft; maximum known discharge, 1,370 ft³/s Aug. 25, 1961, gage height, 9.40 ft, from rating curve extended above 110 ft³/s on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 11	daily	*49	--				

Minimum observed, 0.59 ft³/s, Nov. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	7.9	e2.4	3.4	e4.0	e4.0	e24	38	21	8.9	2.8	1.8
2	7.7	7.5	e2.2	3.5	e3.9	e3.6	e27	40	20	9.0	3.3	1.8
3	6.1	6.8	e2.6	3.4	e3.9	e3.5	e31	42	19	8.9	3.3	1.8
4	6.1	7.0	e2.9	3.4	e4.7	e4.7	e34	44	17	8.9	3.4	1.8
5	5.9	7.3	e2.8	3.6	e3.8	e3.5	e32	45	16	9.0	3.7	1.5
6	5.7	6.2	e2.7	3.7	e3.9	e3.9	e32	45	15	9.0	3.7	1.5
7	5.1	6.5	e2.6	3.7	e3.8	e3.8	e33	43	15	8.4	3.8	1.6
8	5.7	6.0	e2.5	3.7	e3.8	e3.8	e34	42	15	7.4	4.3	1.6
9	5.3	7.5	e2.0	3.8	e4.7	e3.8	e35	42	13	8.0	3.8	1.5
10	5.9	e6.0	e2.4	3.6	e3.6	e4.2	e39	e40	13	7.1	3.7	1.3
11	5.7	e5.0	e3.1	3.8	e4.1	e4.7	e37	e49	12	6.6	3.7	e3.6
12	6.0	e4.0	e3.2	3.4	e4.2	e4.4	e40	e37	11	6.0	3.4	e4.6
13	5.5	e3.0	3.7	3.4	e4.2	e4.1	41	e37	11	5.2	3.3	2.1
14	5.6	e2.0	3.5	3.6	e4.2	e4.9	42	e36	11	4.9	3.6	2.0
15	5.4	e1.0	3.6	3.5	e4.0	e5.2	42	e38	11	4.5	2.9	2.4
16	7.3	e1.4	3.2	3.6	e4.0	e5.3	45	e36	10	4.1	2.8	2.7
17	6.7	e1.7	3.5	3.8	e4.0	e5.4	46	e36	9.3	3.8	2.8	3.4
18	13	e1.5	4.0	3.6	e4.0	e5.5	44	36	9.7	e5.9	2.8	3.7
19	14	e1.7	3.7	3.6	e4.1	e5.7	45	35	10	e4.9	2.5	2.8
20	11	e1.6	3.0	3.6	e4.1	e6.8	41	34	9.3	5.8	2.3	2.4
21	6.5	e2.3	3.2	3.6	e4.2	e5.4	40	33	9.5	6.0	2.2	2.5
22	7.0	e2.1	3.1	3.6	e4.2	e5.1	39	31	9.6	5.3	2.1	2.5
23	7.2	e2.4	3.1	3.5	e4.2	e20	37	30	9.3	3.4	2.1	2.3
24	8.4	e2.7	3.0	3.5	e3.8	e28	36	29	9.6	3.6	2.0	2.6
25	9.3	e2.5	3.5	3.7	e3.9	e24	36	28	9.6	4.0	2.0	2.8
26	8.4	e2.3	3.3	3.9	e4.0	e29	35	26	8.4	4.1	2.0	2.6
27	7.2	e2.0	3.1	3.8	e4.0	e25	35	25	8.6	4.1	2.0	2.5
28	8.2	e2.3	3.4	3.3	e4.3	e26	35	24	8.9	3.7	1.9	2.5
29	7.5	e2.1	3.9	e4.4	---	e27	35	23	9.0	3.7	1.9	2.6
30	7.1	e2.5	3.9	e11	---	e29	37	21	8.9	2.6	1.8	3.1
31	6.8	---	3.4	e16	---	e28	---	22	---	2.8	1.7	---
TOTAL	222.5	114.8	96.5	132.0	113.6	337.1	1109	1087	359.7	179.6	87.6	71.9
MEAN	7.18	3.83	3.11	4.26	4.06	10.9	37.0	35.1	12.0	5.79	2.83	2.40
MAX	14	7.9	4.0	16	4.7	29	46	49	21	9.0	4.3	4.6
MIN	5.1	1.0	2.0	3.3	3.6	3.3	24	21	8.4	2.6	1.7	1.3
ACFT	441	228	191	262	225	669	2200	2160	713	356	174	143
CAL YR 1984	TOTAL	4121.4	MEAN	11.3	MAX	89	MIN	1.0	ACFT	8170		
WTR YR 1985	TOTAL	3911.3	MEAN	10.7	MAX	49	MIN	1.0	ACFT	7760		

e Estimated.

GREEN RIVER BASIN

09309600 FAIRVIEW TUNNEL NEAR FAIRVIEW, UT
(Transmountain diversion)

LOCATION.--Lat 39°40'03", long 111°18'41", in NW1/4NW1/4NE1/4 sec.25, T.13 S., R.5 E., Sanpete County, Hydrologic Unit 14060007, on right bank 1,000 ft upstream from tunnel portal, 7.3 mi east-northeast of Fairview.

PERIOD OF RECORD.--July 1967 to current year. Seasonal records only. (July to September 1967, gage height only.)

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 8,660 ft from topographic map.

REMARKS.--Records fair, including estimated daily discharges. Fairview Tunnel diverts from San Rafael River and Price River drainages in the Colorado River Basin to San Pitch River in the Great Basin. Due to the location of the gage, reported flow may not be actual flow through tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52 ft³/s June 6, 1984, gage height, 1.55 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22 ft³/s June 9, gage height, 0.79 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									e3.0	e14	15	14
2									e5.0	e14	16	13
3									e5.0	e14	16	14
4									e5.0	15	16	14
5									5.3	15	16	13
6									e5.3	15	16	13
7									9.1	16	16	13
8									16	16	16	12
9									21	16	17	11
10									20	16	16	11
11									18	16	16	9.6
12									15	16	16	7.3
13									14	16	16	e4.0
14									9.2	16	17	e1.0
15									e5.0	16	17	.00
16									e5.0	16	17	.00
17									6.3	17	17	.00
18									10	17	16	.00
19									e8.0	17	16	.00
20									e6.0	17	16	.00
21									e8.0	16	16	.00
22									e10	11	16	.00
23									e10	7.6	16	.00
24									e11	11	16	.00
25									e11	14	15	.00
26									e12	14	15	.00
27									e12	12	14	.00
28									e13	11	15	.00
29									e13	11	15	.00
30									e13	11	14	.00
31									---	14	15	---
TOTAL									304.2	447.6	491	149.90
MEAN									10.1	14.4	15.8	5.00
MAX									21	17	17	14
MIN									3.0	7.6	14	.00
ACFT									603	888	974	297

e Estimated.

GREEN RIVER BASIN

115

09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UT

LOCATION.--Lat 39°42'57", long 111°17'58", in NW1/4SE1/4SW1/4 sec.6, T.13 S., R.6 E., Sanpete County, Hydrologic Unit 14060007, on left bank 300 ft downstream from old Mammoth Dam, 5.5 mi upstream from mouth, and 7 mi west of Scofield.

DRAINAGE AREA.--16.8 mi².

PERIOD OF RECORD.--October 1930 to September 1931, May 1940 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 8,400 ft from topographic map. October 1930 to September 1931, at different datum, May 1940 to September 1954, at datum 0.50 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversion above station for irrigation in Sevier River basin, part of which is water diverted into Gooseberry Creek from Boulger Creek. A small reservoir on Gooseberry Creek 5 mi above station, capacity about 1,900 acre-ft is used to regulate these diversions. Flow also affected by small reservoir 1 mi above station.

AVERAGE DISCHARGE.--46 years, 19.4 ft³/s, 14,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 419 ft³/s May 2, 1984; maximum gage height, 2.98 ft June 6, 1957, datum then in use; no flow Nov. 11, 1964, Sept. 23-26, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 279 ft³/s May 5, gage height, 3.07 ft; minimum daily discharge, 4.4 ft³/s Sept. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	7.9	7.3	e7.3	e5.7	e5.6	5.4	90	110	16	9.8	4.9
2	14	7.8	7.3	e7.6	e5.9	6.1	6.1	140	97	16	9.3	5.9
3	16	8.0	7.6	e7.8	e6.2	e5.8	7.3	203	89	16	9.1	5.6
4	14	7.4	e8.0	e8.4	e6.2	e5.8	8.1	248	84	15	9.5	5.5
5	10	7.3	e8.3	e8.4	e6.2	e6.2	8.9	254	75	14	9.9	5.1
6	8.4	7.5	e7.6	7.5	e6.0	6.3	9.8	241	66	14	9.1	4.8
7	7.6	7.4	7.0	7.1	e5.9	6.2	12	250	51	14	8.6	4.7
8	7.1	8.1	7.3	7.5	e5.8	6.5	16	239	44	14	8.4	5.0
9	6.9	8.3	7.5	7.4	e5.3	5.5	24	233	42	12	7.9	4.8
10	6.8	e8.0	7.3	6.9	e6.1	6.4	33	241	39	12	8.1	4.4
11	6.8	8.3	e7.3	6.9	e6.3	6.7	41	202	37	12	7.8	5.5
12	12	7.9	e7.2	e6.7	e6.6	e6.5	50	166	34	12	7.7	7.3
13	11	7.5	7.2	e7.0	e6.8	e6.0	58	133	32	12	7.6	6.2
14	9.9	8.2	e7.3	e7.6	e6.6	e5.8	66	124	30	12	7.2	5.3
15	8.7	7.9	e7.4	e8.2	e6.6	5.6	79	131	31	12	6.9	4.8
16	8.5	8.0	e7.4	e7.8	e7.0	e5.7	99	140	30	11	6.7	4.5
17	9.8	7.7	e7.8	7.3	e7.0	e5.7	119	141	29	11	6.4	4.5
18	9.6	e7.6	8.5	7.0	e6.2	5.7	138	152	28	12	6.5	4.7
19	9.1	e7.4	7.5	6.8	e6.2	5.7	110	149	24	12	6.3	7.9
20	8.9	e7.2	8.7	6.5	6.3	5.4	84	147	23	17	6.1	7.4
21	9.1	6.6	8.2	7.5	6.0	5.4	70	159	22	28	6.0	6.3
22	e9.1	6.8	7.2	e7.5	5.7	5.4	59	158	21	26	5.9	5.9
23	7.5	6.9	7.3	e7.2	e5.7	5.6	52	149	20	30	5.6	5.4
24	7.7	7.1	e7.4	e7.0	e5.7	6.0	49	141	20	25	5.7	5.0
25	7.7	8.3	e7.5	e6.8	e5.7	6.5	49	134	31	17	5.6	4.6
26	7.8	8.0	e7.6	6.5	e5.6	6.5	45	131	27	14	5.6	4.6
27	8.6	e8.0	7.7	6.3	e5.6	6.5	41	142	22	12	5.6	4.6
28	8.2	8.0	e7.7	6.5	e5.6	6.5	45	154	20	11	5.1	4.4
29	8.1	8.0	7.4	6.8	---	5.7	56	152	18	11	4.9	4.4
30	7.9	7.6	7.3	e6.5	---	5.7	75	142	17	11	4.8	4.5
31	8.3	---	7.3	e5.7	---	5.7	---	129	---	10	5.0	---
TOTAL	282.9	230.7	234.1	222.0	170.5	184.7	1515.6	5217	1213	461	218.7	158.5
MEAN	9.13	7.69	7.55	7.16	6.09	5.96	50.5	168	40.4	14.9	7.05	5.28
MAX	16	8.3	8.7	8.4	7.0	6.7	138	254	110	30	9.9	7.9
MIN	6.8	6.6	7.0	5.7	5.3	5.4	5.4	90	17	10	4.8	4.4
ACFT	561	458	464	440	338	366	3010	10350	2410	914	434	314
CAL YR 1984	TOTAL	14067.0	MEAN	38.4	MAX	419	MIN	5.7	ACFT	27900		
WTR YR 1985	TOTAL	10108.7	MEAN	27.7	MAX	254	MIN	4.4	ACFT	20050		

e Estimated.

GREEN RIVER BASIN

09310500 FISH CREEK ABOVE RESERVOIR, NEAR SCOFIELD, UT

LOCATION.--Lat 39°46'28", long 111°11'25", in NW1/4NE1/4SW1/4 sec.18, T.12 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on right bank 0.8 mi upstream from bridge, 1.2 mi downstream from French Creek, and 4.5 mi north of Scofield.

DRAINAGE AREA.--60.1 mi².

PERIOD OF RECORD.--June to October 1931, April to September 1932, October 1938 to current year. Published as Price River above Scofield Reservoir, near Scofield, October 1938 to September 1967.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,670 ft from topographic map. June 1931 to September 1932, and October 1938 to July 27, 1967, at various sites about 0.5 mi downstream at different datums.

REMARKS.--Records good, except for estimated daily discharges, which are poor. Small transmountain diversions in headwaters for irrigation in Sevier Lake basin.

AVERAGE DISCHARGE.--47 years (1938-85), 50.3 ft³/s, 36,440 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft³/s May 21, 1984, gage height, 6.20 ft; minimum recorded, 0.6 ft³/s Oct. 31, 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 270 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 17	2400	351	2.89	May 4	2200	*709	*4.14

Minimum daily discharge, 10 ft³/s, Feb. 1-3, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	20	e18	e19	e10	e14	24	249	196	45	22	13
2	36	24	e17	e15	e10	e16	27	355	178	42	21	14
3	36	21	e17	e14	e10	e14	35	483	165	40	20	15
4	30	19	e17	e16	e12	e12	36	583	154	39	20	14
5	25	23	e19	e16	e11	e14	36	651	142	37	20	14
6	23	20	e21	e20	e10	e16	40	611	130	35	20	13
7	21	20	e22	e21	e11	e16	52	620	115	35	19	14
8	20	20	e24	e22	e12	e18	64	610	104	34	18	14
9	20	27	e24	e21	e14	e20	92	585	100	31	17	13
10	20	31	e25	e17	e12	e25	116	588	95	30	17	13
11	19	25	e27	e19	e11	e24	131	486	90	30	17	16
12	29	22	e24	e20	e12	e22	154	410	86	29	17	19
13	26	21	e22	e14	e13	e21	172	341	82	29	17	16
14	25	30	e20	e15	e13	e19	196	309	77	28	17	15
15	23	25	e18	e15	e14	e24	233	309	76	27	17	14
16	22	22	e20	e16	e13	e23	280	315	74	26	16	13
17	23	29	e16	e15	e13	e22	311	320	71	27	15	13
18	27	27	e19	e14	e13	e21	316	332	68	28	16	13
19	27	25	e18	e14	e12	e23	283	339	64	28	16	18
20	23	21	e20	e17	e13	e27	231	333	61	32	15	17
21	23	19	e17	e17	e15	e25	196	345	60	50	15	15
22	20	20	e15	e14	e14	e22	170	351	56	44	15	15
23	26	20	e17	e14	e14	e22	147	319	55	49	14	15
24	28	20	e18	e15	e13	e25	139	296	55	44	14	14
25	22	e19	e15	e16	e13	e30	134	280	74	33	15	13
26	26	e18	e14	e15	e12	30	125	270	61	28	14	13
27	23	e16	e17	e17	e13	26	116	270	52	26	15	13
28	28	e18	e20	e16	e14	e24	126	271	48	25	14	13
29	22	e17	e19	e17	---	e25	147	263	46	24	13	13
30	20	e20	e18	e14	---	e21	195	244	45	24	13	13
31	21	---	e19	e11	---	e23	---	223	---	25	13	---
TOTAL	756	659	597	506	347	664	4324	11921	2680	1020	512	428
MEAN	24.4	22.0	19.3	16.3	12.4	21.4	144	385	89.3	32.9	16.5	14.3
MAX	36	31	27	22	15	30	316	651	196	50	22	19
MIN	19	16	14	11	10	12	24	223	45	23	13	13
ACFT	1500	1310	1180	1000	688	1320	8580	23650	5320	2020	1020	849
CAL YR 1984	TOTAL	39589	MEAN	108	MAX	1310	MIN	13	ACFT	78520		
WTR YR 1985	TOTAL	24414	MEAN	66.9	MAX	631	MIN	10	ACFT	48430		

e Estimated.

GREEN RIVER BASIN

117

09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UT

LOCATION.--Lat 39°43'18", long 111°09'38", in SW1/4NE1/4 sec.5, T.13 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on left bank 1.3 mi upstream from mouth, 0.1 mi below Winter Quarters Canyon, 0.2 mi upstream from Scofield.

DRAINAGE AREA.--29.1 mi².

PERIOD OF RECORD.--August 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,720 ft from topographic map.

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

AVERAGE DISCHARGE.--7 years, 18.8 ft³/s, 13,620 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 389 ft³/s May 21, 1984, gage height, 3.30 ft; minimum, 1.4 ft³/s Sept. 8, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 126 ft³/s May 10, gage height 1.58 ft; minimum daily, 5.6 ft³/s Jan. 31, Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	e9.3	e12	e5.6	e7.8	16	47	75	21	13	e12
2	19	11	e8.9	e10	e6.1	e7.7	20	58	72	19	12	e14
3	16	10	e8.6	e8.1	e6.4	e7.8	22	72	71	17	12	e11
4	12	9.9	e9.0	e8.2	e7.2	e8.0	23	80	65	16	10	e10
5	10	11	e9.4	e8.4	e7.4	e8.3	26	93	64	17	11	e9.7
6	9.5	10	e9.9	e8.3	e7.5	e8.5	30	101	62	16	11	e11
7	9.1	9.9	e11	e8.4	e7.6	e8.6	32	92	69	14	11	e12
8	9.4	9.7	e11	e9.9	e7.6	e8.7	33	98	66	14	11	e10
9	8.6	e9.5	e12	e10	e7.7	e8.8	43	105	63	13	11	e9.5
10	8.5	e9.4	e11	e8.6	e7.7	e8.9	44	109	60	14	11	e8.6
11	9.4	e9.4	e9.9	e7.3	e7.7	e8.7	48	100	53	14	11	16
12	11	e9.7	e8.7	e7.2	e7.7	e8.7	50	89	49	14	11	24
13	9.2	9.2	e8.6	e7.0	e7.7	e9.1	51	77	47	14	9.7	11
14	11	9.3	e8.3	e7.2	e7.8	e9.3	55	73	44	13	9.5	10
15	8.9	e9.1	e8.5	e8.4	e7.9	e9.6	59	74	42	14	9.3	e9.7
16	9.2	e8.9	e9.1	e9.7	e8.0	e10	61	72	41	13	9.8	e10
17	10	e9.2	e9.2	e11	e8.0	e11	63	75	42	14	9.8	e12
18	17	e9.4	e9.2	e11	e8.0	e11	60	87	35	20	10	e15
19	17	e9.0	e9.6	e10	e7.9	e10	57	96	33	24	9.9	e21
20	9.8	e8.9	e10	e10	e7.4	e10	50	93	31	29	10	e17
21	9.6	e9.3	e9.9	e9.1	e7.2	e9.9	45	100	30	36	9.6	e12
22	13	e9.5	e9.2	e7.7	e7.7	e9.8	42	102	30	24	12	e11
23	22	e9.8	e8.7	e6.9	e8.3	e9.8	39	97	29	21	11	e11
24	22	e10	e8.3	e6.6	e8.7	e10	37	95	33	16	9.0	e11
25	10	e11	e7.9	e7.1	e8.2	e11	36	97	44	14	8.6	e11
26	13	e11	e8.7	e8.2	e7.9	e11	33	100	27	14	9.5	e11
27	12	e10	e10	e7.9	e8.0	e11	36	97	24	14	9.7	e11
28	17	e10	e11	e7.3	e8.3	e11	35	93	22	14	e9.4	e11
29	12	e10	e11	e6.7	---	e11	36	89	22	13	e9.0	e10
30	11	e10	e11	e5.9	---	e12	40	86	21	13	e9.0	e10
31	11	---	e11	e5.6	---	e13	---	80	---	13	e9.2	---
TOTAL	379.2	295.1	297.9	259.7	213.2	300.0	1222	2727	1366	522	319.0	362.5
MEAN	12.2	9.84	9.61	8.38	7.61	9.68	40.7	88.0	45.5	16.8	10.3	12.1
MAX	22	12	12	12	8.7	13	63	109	75	36	13	24
MIN	8.5	8.9	7.9	5.6	5.6	7.7	16	47	21	13	8.6	8.6
ACFT	752	585	591	515	423	595	2420	5410	2710	1040	633	719
CAL YR 1984	TOTAL	11362.7	MEAN	31.0	MAX	300	MIN	6.3	ACFT	22540		
WTR YR 1985	TOTAL	8263.6	MEAN	22.6	MAX	109	MIN	5.6	ACFT	16390		

e Estimated.

GREEN RIVER BASIN

09311000 SCOFIELD RESERVOIR NEAR SCOFIELD, UT

LOCATION.--Lat 39°47'15"N, long 111°07'30"W, in NW1/4SE1/4 sec.10, T.12 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on right bank 200 ft upstream from face of dam on Price River and 4.7 mi northeast of Scofield.

DRAINAGE AREA.--154 mi².

PERIOD OF RECORD.--October 1941, April 1942 to current year. Fragmentary records 1926-41 in files of Office of State Engineer.

REVISED RECORDS.--WSP 1089: 1946. WDR UT-77-1: Drainage area.

GAGE.--Staff gage read twice daily. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to Nov. 8, 1945, at site 800 ft upstream 200 ft from old dam at datum 4.51 ft higher.

REMARKS.--Reservoir is formed by earth and rockfill; rock-faced dam 800 ft downstream from old dam in use prior to Nov. 8, 1945. Storage began in May 1926. Usable capacity of reservoir formed by new dam is 65,780 acre-ft between elevations 7,586.0 ft (bottom of outlet works) and 7,617.5 ft (crest of spillway). Dead storage, 8,000 acre-ft below elevation 7,586.0 ft. Figures given herein represent usable contents. Water used for irrigation in vicinity of Price.

COOPERATION.--Capacity table provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 77,280 acre-ft June 12, 13, 1983; elevation, 7,621.85 ft; minimum observed, 280 acre-ft Oct. 3, 1945; elevation, 7,586.25 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 70,620 acre-ft May 23-30, elevation, 7,619.2 ft; minimum observed, 40,250 acre-ft Sept. 25-30, elevation, 7,607.8 ft.

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

7,607	38,310	7,615	58,870
7,608	40,740	7,619	70,040
7,610	45,720	7,620	72,930

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51390	47760	43960	47000	49310	51390	53230	56970	70330	64660	56430	44210
2	51390	47510	43960	47250	49310	51390	53500	57510	70330	64100	56160	43710
3	51130	47510	43710	47250	49310	51390	53500	58320	70040	63820	55900	43210
4	51130	47250	43710	47250	49310	51390	53500	59410	70040	63550	55630	42960
5	51130	47250	43460	47510	49570	51650	53230	60780	70040	62990	55360	42460
6	50870	47000	43460	47510	49570	51650	53230	62160	70040	62710	55360	42220
7	50870	47000	43460	47510	49570	51650	53230	63550	69760	62440	55090	41970
8	50870	46740	43710	47510	49830	51650	53500	64660	69760	61880	54830	41720
9	50610	46740	43710	47760	49830	51920	53500	66060	69470	61610	54300	41480
10	50610	46740	43960	a47760	49830	51920	53500	67190	69470	61330	54030	41230
11	50350	46480	43960	47760	50090	52180	52970	68330	69190	60780	53500	40980
12	50350	46480	44210	48020	50090	52440	52970	68900	69190	60510	53230	40740
13	50090	46230	44210	48020	50090	52440	53230	69190	68900	59960	52710	40740
14	50090	46230	44460	48020	50350	52440	53230	69470	68900	59690	52440	40490
15	49830	45980	44460	48020	50350	52440	53500	69470	68620	59410	51920	40490
16	48280	45980	44710	48280	50350	52710	54030	69760	68330	58870	51390	40490
17	49570	45720	44710	48280	50610	52710	54300	70040	68330	58600	50870	40490
18	49310	45720	44960	48280	50610	52710	54830	70040	68040	58320	50610	40490
19	a49310	45470	45220	48280	50610	52970	55360	70040	67760	58050	50090	40490
20	a49050	45470	45470	48540	50610	52970	55900	70040	67480	57780	49830	40490
21	a48790	45220	45470	48540	50870	53230	56160	70330	67190	57780	49050	40490
22	48790	45220	45980	48540	50870	53230	56430	70330	66910	57780	48540	40490
23	48790	44960	46230	48540	50870	53230	56430	70620	66630	57510	48280	40490
24	48540	44960	46480	48790	51130	53230	56430	70620	66350	57510	47760	40490
25	48540	44710	46480	48790	51130	53230	56430	70620	66060	57510	47250	40250
26	a48540	44710	46480	48790	51130	53230	56700	70620	65780	57240	46740	40250
27	48280	44460	46740	48790	51130	53230	56700	70620	65500	57240	46230	40250
28	48020	44460	46740	49050	51130	53230	56970	70620	65220	56970	45980	40250
29	48020	44210	46740	49050	---	53230	56970	70620	64940	56970	45470	40250
30	48020	44210	47000	49050	---	53230	56970	70620	64940	56700	44960	40250
31	47760	---	47000	49050	---	53230	---	70330	---	56430	44460	---
MAX	51390	47760	47000	49050	51130	53230	56970	70620	70330	64660	56430	44210
MIN	47760	44210	43460	47000	49310	51390	52970	56970	64940	56430	44460	40250
(#)	7610.8	7609.4	7610.5	7611.3	7612.1	7612.9	7614.3	7619.1	7617.2	7614.1	7609.5	7607.8
(*)	-3890	-3550	+2790	+2050	+2080	+2100	+3740	+13360	-5390	-8510	-11970	-4210

CAL YR 1984 (*) +770
WTR YR 1985 (*) -11400

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.
(a) No gage reading, contents interpolated.

GREEN RIVER BASIN

119

09312600 WHITE RIVER BELOW TABBYUNE CREEK, NEAR SOLDIER SUMMIT, UT

LOCATION.--Lat 39°52'33", long 111°02'12", in NE1/4SE1/4SW1/4 sec.9, T.11 S., R.8 E., Utah County, Hydrologic Unit 14060007, 50 ft downstream from bridge on U.S. Highways 6-50, 1.5 mi downstream from Tabbyune Creek, 2.5 mi northwest of the Colton railroad siding, and 4.5 mi southeast of Soldier Summit.

DRAINAGE AREA.--75.6 mi².

PERIOD OF RECORD.--May 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,230 ft from topographic map.

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

AVERAGE DISCHARGE.--18 years, 32.9 ft³/s, 23,840 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 962 ft³/s May 27, 1983, gage height, 5.82 ft; no flow many days August and September 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 18	0100	261	2.81	May 4	0700	*302	*2.86

Minimum daily, 4.5 ft³/s Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	9.6	e6.8	e6.6	e5.4	e7.8	26	215	77	23	11	6.1
2	17	9.5	e6.2	e5.8	e5.8	e8.2	39	246	71	22	10	6.7
3	18	11	e6.4	e5.6	e6.2	e7.6	57	284	67	20	9.7	8.0
4	14	9.8	e6.2	e6.0	e6.4	e7.6	80	298	63	20	9.4	7.4
5	13	8.8	e6.2	e6.0	e5.6	e9.0	83	293	59	19	9.1	7.3
6	12	9.8	e6.4	e7.0	e6.0	e11	95	279	56	19	8.5	7.9
7	11	9.7	e6.6	e7.4	e6.4	e11	109	263	53	19	7.9	8.9
8	11	9.9	e6.8	e7.6	e6.7	e12	125	255	51	19	7.9	6.6
9	11	8.9	e7.0	e7.2	e6.0	e14	143	240	49	17	7.6	5.4
10	11	e8.5	e7.0	e6.2	e5.4	16	160	242	48	17	7.7	5.0
11	11	e8.7	e6.8	e6.4	e5.6	17	172	231	45	17	7.2	7.8
12	13	e8.8	e6.6	e6.6	e5.6	17	188	207	44	17	7.3	9.7
13	11	e8.4	e6.4	e5.8	e5.8	15	194	187	42	17	7.3	6.4
14	12	9.5	e6.2	e6.0	e6.0	13	203	174	40	15	7.1	5.9
15	11	e9.0	e6.0	e6.0	e5.8	14	219	166	39	14	6.7	5.5
16	11	e9.4	e6.4	e6.2	e5.6	15	234	160	37	13	6.4	5.5
17	12	e9.6	e5.8	e6.2	e6.0	15	247	157	36	14	6.2	5.1
18	12	e9.0	e6.4	e6.2	e6.0	17	257	154	34	15	6.5	5.9
19	13	e9.6	e6.4	e6.2	e6.4	26	257	152	34	15	6.3	12
20	12	e8.8	e7.1	e7.6	e7.0	33	237	148	32	15	6.1	6.9
21	12	e8.8	e6.4	e7.4	e7.5	29	215	143	31	19	5.8	6.0
22	10	e8.8	e5.8	e7.0	e7.4	30	194	132	30	20	5.8	5.9
23	11	e9.4	e6.0	e7.0	e7.1	30	176	124	29	22	5.8	5.3
24	11	e8.4	e6.6	e7.6	e6.8	29	167	118	30	16	6.1	5.0
25	12	6.7	e5.8	e8.5	e6.8	35	167	112	36	14	6.3	4.9
26	11	e6.4	e5.8	e10	e6.6	32	163	106	33	12	6.5	4.9
27	12	e6.0	e6.8	e11	e6.9	29	156	99	29	12	6.7	5.0
28	12	e6.4	e7.0	e10	e7.8	29	154	93	26	14	6.7	4.8
29	11	e6.4	e6.8	e10	---	26	163	87	24	14	6.1	4.5
30	9.9	e7.0	e6.2	e7.5	---	29	189	82	24	13	5.8	4.8
31	11	---	e6.6	e5.5	---	24	---	79	---	12	5.4	---
TOTAL	368.9	260.6	199.5	220.1	176.6	608.2	4869	5526	1269	515	222.9	191.1
MEAN	11.9	8.69	6.44	7.10	6.31	19.6	162	178	42.3	16.6	7.19	6.37
MAX	18	11	7.1	11	7.8	35	257	298	77	23	11	12
MIN	9.9	6.0	5.8	5.5	5.4	7.6	26	79	24	12	5.4	4.5
ACFT	732	517	396	437	350	1210	9660	10960	2520	1020	442	379
CAL YR 1984	TOTAL	22273.8	MEAN	60.9	MAX	824	MIN	5.8	ACFT	44180		
WTR YR 1985	TOTAL	14426.9	MEAN	39.5	MAX	298	MIN	4.5	ACFT	28620		

e Estimated.

GREEN RIVER BASIN

09312700 BEAVER CREEK NEAR SOLDIER SUMMIT, UT

LOCATION.--Lat 39°49'50", long 110°58'07", in NW1/4SW1/4SW1/4 sec.30, T.11 S., R.9 E., Utah County, Hydrologic Unit 14060007, on left bank 0.5 mi upstream from mouth, 2.5 mi southeast of Colton, and 9.1 mi southeast of Soldier Summit.

DRAINAGE AREA.--26.1 mi².

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,200 ft from topographic map. Prior to July 15, 1983 at different datum.

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

AVERAGE DISCHARGE.--25 years, 4.61 ft³/s, 3,340 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 204 ft³/s May 27, 1983, maximum gage height, 2.81 ft May 16, 1984, datum then in use; no flow for many days some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 23 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 3	0300	*46	*2.03	No other peak greater than base discharge.			

Minimum daily discharge, 0.57 ft³/s Aug. 31, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	e2.9	e2.1	e2.3	e1.8	e2.4	e4.0	9.1	15	3.3	2.2	.57
2	5.3	e2.8	e2.0	e2.3	e1.3	e2.6	4.1	12	16	2.9	2.1	.61
3	6.5	2.9	e2.1	e2.2	e1.3	e2.5	5.8	36	16	2.9	2.0	.62
4	4.3	e2.9	e2.0	e2.3	e1.4	e2.4	6.7	40	16	2.8	1.9	.71
5	3.1	e2.8	e2.0	e2.4	e1.3	e2.5	8.3	38	14	2.7	1.7	.78
6	2.8	2.8	e2.0	e2.4	e1.3	e2.7	13	39	13	2.3	1.5	.72
7	2.7	2.7	e2.1	2.5	e1.4	e2.6	9.7	39	12	2.3	1.5	.77
8	2.6	2.8	e2.1	e2.4	e1.4	e2.9	7.3	38	11	2.5	1.4	1.0
9	2.6	2.9	e2.2	e2.4	e1.4	e3.2	5.5	37	10	2.4	1.3	.92
10	2.5	e2.6	e2.2	e2.3	e1.4	e3.6	2.4	41	9.9	2.3	1.2	.79
11	2.5	e3.1	e2.2	e2.3	e1.4	e3.5	2.6	39	9.4	2.5	1.1	1.7
12	2.5	e3.0	e2.2	e2.3	e1.4	e3.4	2.7	35	9.2	2.4	1.1	4.2
13	2.4	3.0	e2.1	e2.3	e1.5	e3.4	2.5	31	8.6	2.5	1.1	1.7
14	2.5	3.0	e2.1	e2.4	e1.6	e3.5	2.8	29	8.0	2.4	1.1	1.3
15	2.5	e2.9	e2.1	e2.5	e1.7	e4.0	3.1	28	7.5	2.4	1.1	1.2
16	2.5	e3.1	e2.1	e2.5	e1.6	e3.9	4.2	26	7.0	2.3	1.0	1.1
17	e2.9	3.4	e2.2	e2.5	e1.7	e3.7	5.9	25	6.6	2.1	.98	1.0
18	3.1	e3.0	e2.0	e2.6	e1.9	e3.5	5.2	24	6.1	2.4	1.0	1.1
19	e3.2	e3.2	e2.1	e2.7	e1.9	e3.7	6.0	24	5.7	3.5	1.1	8.7
20	3.0	e3.0	e2.1	e2.8	e1.9	e3.6	4.2	24	5.2	3.4	.97	2.9
21	3.1	e3.1	e2.1	2.7	e2.0	e3.7	3.2	24	4.9	4.9	.94	1.9
22	3.2	e3.1	e2.0	2.7	e2.1	e3.2	3.2	24	4.8	5.0	.88	1.6
23	4.0	e3.1	e2.1	e2.6	e2.1	e3.4	3.1	23	4.6	6.9	.72	1.4
24	5.3	3.0	e2.1	e2.6	e2.0	3.5	3.6	22	4.4	3.8	.72	1.3
25	5.6	2.4	e2.2	2.7	e2.1	e4.2	4.2	20	5.0	2.9	.89	1.2
26	4.9	e2.3	e2.2	2.7	e2.0	e3.9	3.9	19	5.6	2.4	.77	1.2
27	3.1	e2.0	e2.2	e2.6	e2.2	3.5	3.9	18	4.5	2.3	.72	1.2
28	e3.2	e2.1	e2.3	e2.5	e2.3	3.4	4.9	17	3.9	2.9	.71	1.1
29	3.1	e2.3	e2.3	e2.4	---	3.4	5.5	15	3.7	2.7	.63	1.1
30	3.0	e2.2	e2.3	e2.4	---	e3.6	6.5	14	3.5	2.7	.59	1.1
31	3.0	---	e2.3	e2.1	---	e3.8	---	13	---	2.5	.57	---
TOTAL	103.5	84.4	66.1	76.4	47.4	103.2	148.0	823.1	251.1	91.3	35.49	45.49
MEAN	3.34	2.81	2.13	2.46	1.69	3.33	4.93	26.6	8.37	2.95	1.14	1.52
MAX	6.5	3.4	2.3	2.8	2.3	4.2	13	41	16	6.9	2.2	8.7
MIN	2.4	2.0	2.0	2.1	1.3	2.4	2.4	9.1	3.5	2.1	.57	.57
ACFT	205	167	131	152	94	205	294	1630	498	181	70	90

CAL YR 1984	TOTAL	4008.7	MEAN	11.0	MAX	113	MIN	1.2	ACFT	7950
WTR YR 1985	TOTAL	1875.48	MEAN	5.14	MAX	41	MIN	.57	ACFT	3720

e Estimated.

GREEN RIVER BASIN

121

09312800 WILLOW CREEK NEAR CASTLE GATE, UT

LOCATION.--Lat 39°46'37", long 110°47'30", in SW1/4SE1/4SW1/4 sec.15, T.12 S., R.10 E., Carbon County, Hydrologic Unit 14060007, on right bank 130 ft upstream from Deep Canyon, 170 ft east of State Highway 33, 1.5 mi downstream from junction with two major tributaries, 5.1 mi northeast of Castle Gate, 5.4 mi upstream from mouth, and 12.3 mi north of Price.

DRAINAGE AREA.--62.8 mi².

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,000 ft from topographic map.

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

AVERAGE DISCHARGE.--23 years, 9.67 ft³/s, 7,010 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 836 ft³/s Aug. 6, 1973, gage height, 6.47 ft from floodmarks; no flow on many days.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 25	1900	103	2.86	July 22	2000	*611	*4.88
Apr. 2	2000	323	3.63				

Minimum daily discharge, 1.2 ft³/s Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	e3.1	e2.1	e1.6	e1.2	e4.1	64	26	20	e6.3	4.0	1.6
2	28	e3.0	e2.0	e1.4	e1.3	e4.0	138	27	20	e5.8	3.8	1.7
3	21	e2.9	e1.9	e1.6	e1.5	e3.8	113	27	19	e5.2	3.8	1.7
4	14	e2.7	e1.9	e1.9	e2.1	e4.0	87	30	18	e5.0	3.7	1.8
5	9.1	e2.5	e1.9	e2.3	e2.0	e4.7	61	42	17	e4.7	3.5	1.7
6	6.6	e2.7	e1.9	e2.7	e1.9	e5.2	65	47	16	e4.4	3.3	1.6
7	5.2	e2.7	e1.9	e2.9	e1.9	e5.8	62	46	16	e4.5	3.1	2.1
8	4.3	e2.8	e1.9	e2.6	e2.2	e6.7	63	44	15	e4.7	3.0	2.0
9	3.8	e2.7	e2.0	e2.1	e2.4	e7.6	59	44	15	4.9	2.7	1.8
10	3.4	e2.5	e2.1	e1.9	e2.2	e8.5	57	44	15	4.9	2.8	1.7
11	3.3	e2.6	e2.2	e2.0	e2.1	e10	49	44	14	5.0	2.7	12
12	3.2	e2.7	e2.1	e2.2	e2.3	e11	46	41	14	4.9	2.7	6.6
13	3.2	e2.9	e2.0	e2.2	e2.4	e12	41	37	14	5.2	2.9	2.9
14	3.2	e2.8	e1.9	e1.9	e2.5	e13	38	34	14	4.4	2.8	2.5
15	2.9	e2.6	e1.8	e2.1	e2.7	e15	36	32	13	4.3	2.7	2.3
16	2.5	e2.5	e2.0	e2.2	e2.6	e17	36	31	12	4.2	2.6	2.3
17	2.3	e2.5	e1.9	e2.4	e2.5	e19	38	29	12	4.1	2.5	2.2
18	2.3	e2.4	e1.7	e2.3	e2.4	e22	39	28	11	4.2	2.6	3.0
19	2.6	e2.4	e2.0	e2.4	e2.5	e25	39	27	11	4.7	2.6	6.6
20	3.4	e2.3	e2.2	e2.6	e2.6	e28	39	27	10	5.2	2.4	2.9
21	3.5	e2.3	e1.8	e2.5	e2.8	e29	36	29	e9.4	14	2.3	2.6
22	3.2	e2.2	e1.5	e2.2	e3.1	23	34	29	e9.0	61	2.2	2.5
23	2.8	e2.1	e1.5	e2.1	e3.3	26	31	27	e8.4	14	2.1	2.3
24	e3.1	e2.0	e1.7	e2.3	e3.4	38	28	26	e8.4	6.1	2.1	2.3
25	e3.3	e2.0	e1.7	e2.4	e3.1	63	27	26	e9.2	5.2	2.0	2.2
26	e3.8	e1.9	e1.5	e2.1	e3.0	68	27	24	e10	4.7	2.0	2.2
27	e3.7	e1.9	e1.6	e2.0	e3.3	40	27	23	e9.2	5.1	1.9	2.2
28	e3.4	e2.0	e1.9	e2.1	e3.7	27	26	22	e7.8	5.3	1.8	2.1
29	e3.3	e2.1	e2.1	e2.2	---	25	26	22	e7.1	9.9	1.7	2.0
30	e3.4	e2.1	e2.4	e2.2	---	26	25	20	e6.6	6.5	1.6	2.0
31	e3.2	---	e2.1	e1.6	---	29	---	20	---	4.8	1.6	---
TOTAL	178.0	73.9	59.2	67.0	69.0	620.4	1457	975	381.1	233.2	81.5	83.4
MEAN	5.74	2.46	1.91	2.16	2.46	20.0	48.6	31.5	12.7	7.52	2.63	2.78
MAX	28	3.1	2.4	2.9	3.7	68	138	47	20	61	4.0	12
MIN	2.3	1.9	1.5	1.4	1.2	3.8	25	20	6.6	4.1	1.6	1.6
ACFT	353	147	117	133	137	1230	2890	1930	756	463	162	165

CAL YR 1984	TOTAL	5222.3	MEAN	14.3	MAX	145	MIN	1.5	ACFT	10360
WTR YR 1985	TOTAL	4278.7	MEAN	11.7	MAX	138	MIN	1.2	ACFT	8490

e Estimated.

GREEN RIVER BASIN

09314250 PRICE RIVER BELOW MILLER CREEK, NEAR WELLINGTON, UT

LOCATION.--Lat 39°26'59", long 110°37'38", in NE1/4SE1/4NE1/4 sec.12, T.16 S., R.11 E., Emery County, Hydrologic Unit 14060007, on left bank 100 ft downstream from highway bridge, and 8.5 mi southeast of Wellington.

DRAINAGE AREA.--956 mi².

PERIOD OF RECORD.--April 1972 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,150 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation above station. Flow affected by storage in Scofield Reservoir.

AVERAGE DISCHARGE.--13 years, 139 ft³/s, 100,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,880 ft³/s Sept. 11, 1975, gage height, 9.97 ft from floodmark; minimum, 0.68 ft³/s June 30, July 1, 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 3	0430	*1,780	*8.52	July 22	0100	1,570	7.99
Apr. 19	1300	893	5.54	Sept. 12	unknown	1,600	8.14
May 21	2230	905	5.58	Sept. 15	2030	976	6.28

Minimum daily, 30 ft³/s Dec. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	250	186	e140	e40	e45	e74	209	600	443	e98	e120	70
2	767	186	e135	e38	e47	e75	216	625	379	e94	e110	80
3	649	186	e143	e39	e50	e72	337	680	334	e90	e100	78
4	227	186	e150	e42	e53	e75	339	741	315	e92	e90	72
5	190	184	e145	e43	e51	e75	350	742	291	e94	e90	59
6	184	187	e135	e46	e53	e76	364	725	273	e90	e80	48
7	179	188	e135	e45	e55	e74	373	685	252	e90	e74	49
8	154	187	e109	e47	e57	e75	400	638	231	e98	e70	67
9	150	193	e90	e48	e60	e96	431	591	210	e94	e68	66
10	152	179	e90	e46	e55	111	e490	646	191	e92	e70	56
11	149	185	e93	e47	e52	109	e570	e760	171	e90	e74	116
12	159	208	e96	e46	e54	136	617	e800	e170	80	e72	e648
13	166	206	e75	e43	e55	102	652	e790	162	114	e78	147
14	169	213	e77	e44	e56	90	627	e750	142	89	67	e110
15	168	202	e65	e51	e60	86	666	e730	129	82	63	e130
16	166	199	e50	e50	e67	89	709	e670	e120	76	67	e480
17	179	191	e32	e50	e75	93	754	612	e110	73	67	e139
18	181	184	e37	e53	e74	97	808	612	e105	84	78	e121
19	186	183	e36	e58	e73	102	865	622	e106	101	79	297
20	198	181	e35	e57	e72	126	854	645	e96	159	66	134
21	201	179	e38	e56	e73	133	797	787	e90	230	65	e96
22	191	187	e31	e55	e72	121	720	726	e86	e490	67	e90
23	189	183	e32	e55	e72	115	645	670	e84	e340	65	e72
24	190	192	e30	e55	e71	129	614	644	e90	e190	66	e63
25	189	208	e35	e55	e71	162	604	637	e100	e140	68	e63
26	193	187	e33	e56	e69	241	630	582	e110	e105	69	e56
27	194	e160	e32	e55	e71	230	617	526	e100	e87	66	e56
28	191	e161	e40	e54	e72	195	582	493	e100	e100	65	e58
29	187	e163	e38	e52	---	190	569	456	e98	e130	63	e58
30	188	e163	e40	e50	---	169	572	436	e100	e400	63	e52
31	187	---	e39	e47	---	209	---	426	---	e200	66	---
TOTAL	6723	5597	2256	1523	1735	3727	16981	20047	5188	4292	2306	3631
MEAN	217	187	72.8	49.1	62.0	120	566	647	173	138	74.4	121
MAX	767	213	150	58	75	241	865	800	443	490	120	648
MIN	149	160	30	38	45	72	209	426	84	73	63	48
ACFT	13340	11100	4470	3020	3440	7390	33680	39760	10290	8510	4570	7200

CAL YR 1984	TOTAL	116875	MEAN	319	MAX	1870	MIN	30	ACFT	231800
WTR YR 1985	TOTAL	74006	MEAN	203	MAX	865	MIN	30	ACFT	146800

e Estimated.

GREEN RIVER BASIN

123

09314280 DESERT SEEP WASH NEAR WELLINGTON, UT

LOCATION.--Lat 39°25'16", long 110°38'44", in NW1/4SW1/4NW1/4 sec.24, T.16 S., R.11 E., Emery County, Hydrologic Unit 14060007, on left bank 2,000 ft above mouth, and 9.5 mi southeast of Wellington.

DRAINAGE AREA.--191 mi².

PERIOD OF RECORD.--May 1972 to current year.

REVISED RECORDS.--WDR UT-77-1: 1972-76. WDR UT-80-1: 1979, 1978-79(M).

GAGE.--Water-stage recorder. Altitude of gage is 5,235 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions above station for irrigation and storage in Desert Lake.

AVERAGE DISCHARGE.--13 years, 29.2 ft³/s, 21,160 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,060 ft³/s July 24, 1977, gage height, 10.00 ft from floodmarks from rating curve extended above 70 ft³/s on basis of slope-area measurements; no flow July 15-17, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 02	0530	*502	*5.48	Sept. 11	2130	404	5.10
Apr. 26	2200	272	4.30	Sept. 16	0430	382	5.00
July 21	0730	408	5.29				

Minimum daily, 9.0 ft³/s Feb. 1, 5, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	53	36	e23	e9.0	e23	36	105	77	40	35	44
2	291	43	28	e21	e10	e25	34	96	80	38	40	39
3	236	40	22	e22	e11	e23	37	88	75	38	37	36
4	129	37	19	e23	e12	e25	37	91	78	39	31	39
5	105	37	18	e24	e9.0	e25	34	75	78	35	32	40
6	97	36	21	e26	e10	39	55	69	82	34	33	36
7	94	35	28	e24	e11	31	77	68	73	35	24	36
8	100	32	35	e26	e12	32	77	60	68	25	22	44
9	108	37	32	e27	e13	36	76	57	62	31	25	41
10	106	38	44	e24	e10	70	74	68	70	27	30	31
11	95	34	39	e26	e9.0	52	70	85	77	24	28	92
12	83	27	30	e25	e9.5	96	64	98	75	26	28	145
13	71	22	28	e22	e10	61	61	101	69	21	23	68
14	59	19	25	e23	e13	63	69	90	68	22	17	78
15	65	14	26	e24	e15	84	77	91	61	24	21	82
16	63	15	22	e23	e18	84	83	83	55	26	24	125
17	61	15	e21	e22	e24	81	87	86	46	25	27	51
18	64	23	e27	e25	e23	79	84	85	40	24	28	69
19	60	28	e26	e34	e22	56	92	84	36	22	28	79
20	56	28	e19	e33	e21	47	87	88	32	91	31	85
21	56	38	e23	e32	e23	37	99	91	33	172	27	72
22	53	49	e24	e31	e22	34	106	85	33	91	25	52
23	49	44	e25	e31	e22	28	110	83	29	98	26	64
24	53	39	e23	e31	e21	27	89	79	24	73	20	64
25	49	39	e25	e31	e21	26	83	80	25	78	23	53
26	49	34	e23	e33	e19	26	168	72	37	79	29	47
27	49	34	e22	e31	e21	28	135	73	36	72	33	48
28	54	43	e23	e30	e22	34	118	70	38	70	30	51
29	53	35	e22	e30	---	38	113	63	40	71	31	52
30	56	48	e23	e20	---	31	102	63	41	59	35	47
31	57	---	e22	e15	---	37	---	65	---	38	38	---
TOTAL	2671	1016	801	812	442.5	1378	2434	2492	1638	1548	881	1810
MEAN	86.2	33.9	25.8	26.2	15.8	44.5	81.1	80.4	54.6	49.9	28.4	60.3
MAX	291	53	44	34	24	96	168	105	82	172	40	145
MIN	49	14	18	15	9.0	23	34	57	24	21	17	31
ACFT	5300	2020	1590	1610	878	2730	4830	4940	3250	3070	1750	3590
CAL YR 1984	TOTAL	17579.0	MEAN	48.0	MAX	291	MIN	8.0	ACFT	34870		
WTR YR 1985	TOTAL	17923.5	MEAN	49.1	MAX	291	MIN	9.0	ACFT	35550		

e Estimated.

09314500 PRICE RIVER AT WOODSIDE, UT

LOCATION.--Lat 39°15'50", long 110°20'45", in SW1/4SE1/4SE1/4 sec.9, T.18 S., R.14 E., Emery County, Hydrologic Unit 14060007, on left downstream wingwall of old highway bridge, 200 ft downstream from railroad bridge at Woodside, and 16.3 mi upstream from mouth.

DRAINAGE AREA.--1,540 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1909 to December 1910, January to August 1911 (gage heights only), November 1945 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft by barometer. September 1909 to August 1911, reference point at site about 100 ft upstream at different datum. Nov. 27, 1945 to Oct. 16, 1954, water-stage recorder at site 15 ft downstream at datum 1.85 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 18,000 acres. Flow affected by storage in Scofield Reservoir, usable capacity, 65,780 acre-ft, since 1926 (see station 09311000).

AVERAGE DISCHARGE.--39 years, 126 ft³/s, 91,290 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,720 ft³/s Sept. 11, 1980, gage height, 11.16 ft, from rating curve extended above 1,200 ft³/s; no flow for several days in 1960, 1961, and part of July 8, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	1600	4,520	9.71	Sept. 19	0330	*5,090	*10.20
Sept. 11	1830	2,480	8.06				

Minimum daily, 52 ft³/s Dec. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	204	224	e173	e63	e54	e97	e230	669	528	116	195	95
2	2430	216	e163	e59	e57	e100	e250	697	528	110	129	102
3	1810	208	e165	e61	e62	e95	e360	728	445	102	119	107
4	613	207	e166	e65	e64	e100	e370	818	413	103	110	109
5	330	206	e165	e67	e60	e100	e380	827	394	105	99	102
6	286	201	e155	e72	e63	e115	e390	811	372	101	96	96
7	272	204	e155	e69	e66	e105	e410	776	356	103	91	87
8	257	202	e147	e73	e69	e107	e430	717	328	114	80	87
9	242	205	e133	e75	e73	e132	494	671	305	106	76	100
10	245	210	e134	e70	e64	e153	e560	685	278	103	77	99
11	239	e220	e133	e73	e63	e161	599	884	268	98	88	520
12	226	e233	e134	e71	e64	230	662	923	250	113	82	1420
13	228	e226	e100	e65	e65	e190	e700	906	229	99	83	285
14	221	e232	e105	e67	e69	e152	e720	859	202	114	77	163
15	218	e215	e90	e75	e75	153	e740	819	176	96	76	137
16	220	e213	e70	e73	e85	e160	794	781	152	94	78	607
17	218	e207	e52	e72	e99	e158	898	777	145	93	83	190
18	236	e208	e60	e78	e97	166	904	777	139	96	87	190
19	227	e210	e57	e92	e95	166	984	799	122	134	94	1180
20	236	e208	e56	e90	e93	e165	e960	819	114	162	94	336
21	243	e217	e61	e88	e96	e171	e880	923	108	683	90	191
22	239	e238	e55	e86	e94	e160	e820	962	107	726	89	156
23	227	e228	e57	e86	e94	e140	e760	900	98	540	84	136
24	225	e231	e53	e86	e92	e160	e720	859	100	335	83	127
25	225	e248	e60	e86	e92	e200	e670	837	136	220	79	116
26	220	e220	e56	e87	e88	e260	786	822	138	188	83	104
27	227	e190	e54	e86	e92	e250	995	703	151	160	88	97
28	224	e191	e63	e84	e95	e230	741	668	121	137	91	93
29	218	e193	e60	e82	---	e220	676	624	118	312	88	93
30	223	e193	e63	e70	---	e190	638	587	124	664	88	94
31	226	---	e61	e62	---	e220	---	604	---	349	91	---
TOTAL	11455	6404	3056	2333	2180	5006	19521	24232	6945	6476	2868	7219
MEAN	370	213	98.6	75.3	77.9	161	651	782	232	209	92.5	241
MAX	2430	248	173	92	99	260	995	962	528	726	195	1420
MIN	204	190	52	59	54	95	230	587	98	93	76	87
ACFT	22720	12700	6060	4630	4320	9930	38720	48060	13780	12850	5690	14320
CAL YR 1984	TOTAL	144358	MEAN	394	MAX	2430	MIN	45	ACFT	286300		
WTR YR 1985	TOTAL	97695	MEAN	268	MAX	2430	MIN	52	ACFT	193800		

e Estimated.

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1946 to September 1949, February 1951 to current year.

SPECIFIC CONDUCTANCE: February 1951 to September 30, 1978, once daily.

WATER TEMPERATURES: February 1951 to September 1959, November 1961 to September 1963, October 1964 to Sept. 30, 1978, once daily.

SEDIMENT DATA: October 1975 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)
OCT 12...	1100	234	2180	8.4	13.5	13.0	8.6	643	760	15
NOV 26...	1100	233	1780	8.5	1.5	1.5	11.6	641	640	13
MAR 20...	1115	169	2870	8.4	16.0	8.5	10.0	644	1100	21
APR 25...	1000	674	1030	8.5	4.5	9.0	9.3	635	420	8.4
MAY 23...	1100	897	1040	8.4	23.0	14.5	9.0	648	400	8.1
JUN 25...	1000	102	2180	8.4	18.5	18.0	7.5	642	780	16
JUL 24...	1030	310	2360	8.2	27.5	20.0	7.2	645	1100	21
AUG 30...	1050	86	2430	8.4	30.0	21.5	7.8	649	840	17
SEP 04...	1000	106	2180	8.3	23.5	19.5	8.0	644	800	16

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HC03)	CAR- BONATE IT-FLD (MG/L AS C03)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L - CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)
OCT 12...	140	100	240	40	3.9	5.1	--	--	--	980
NOV 26...	120	83	190	39	3.3	3.9	310	30	274	820
MAR 20...	180	150	370	43	5.0	6.0	400	10	329	1400
APR 25...	86	50	97	33	2.1	3.5	350	6.1	281	340
MAY 23...	86	46	89	32	2.0	2.7	350	6.2	285	330
JUN 25...	130	110	280	44	4.5	5.3	240	6.1	196	980
JUL 24...	290	84	210	30	2.9	12	170	--	142	1300
AUG 30...	140	120	290	43	4.4	6.7	250	8.2	201	1300
SEP 04...	160	98	230	38	3.6	6.8	320	--	261	990

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 12...	36	0.3	5.3	1830	1650	2.5	1160	0.4	0.36	0.03
NOV 26...	31	0.2	3.6	1460	1250	1.7	788	0.5	0.49	0.08
MAR 20...	59	0.3	6.4	2460	2390	3.3	1120	0.7	0.73	0.20
APR 25...	17	0.2	8.8	779	777	1.1	1410	0.5	0.44	0.06
MAY 23...	15	0.2	6.7	725	761	0.99	1760	0.4	0.4	0.02
JUN 25...	37	0.3	<1.0	1720	1670	2.3	474	<0.1	<0.1	0.06
JUL 24...	19	0.4	--	2120	2000	2.9	1770	0.5	0.63	0.44
AUG 30...	44	0.3	<1.0	2010	2040	2.7	469	<0.1	<0.1	0.05
SEP 04...	40	0.3	3.1	1800	1690	2.4	515	0.4	0.43	0.06

GREEN RIVER BASIN

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04)
OCT 12...	--	--	1.1	1.10	1.5	6.6	0.85	--	0.02	0.06
NOV 26...	0.07	0.09	0.72	0.8	1.3	5.8	0.51	--	0.03	0.09
MAR 20...	0.21	0.27	2.3	2.50	3.2	14	1.50	--	0.06	0.18
APR 25...	0.06	0.08	1.8	1.90	2.4	11	2.50	--	0.01	0.03
MAY 23...	0.04	0.05	0.38	0.4	0.8	3.5	0.26	0.8	0.02	0.06
JUN 25...	0.06	0.08	0.54	0.6	0.7	3.1	0.09	0.28	<0.01	0.03
JUL 24...	0.11	0.14	27	27.0	28	120	0.09	0.28	<0.01	0.03
AUG 30...	0.04	0.05	0.65	0.7	0.8	3.5	0.02	0.06	0.01	0.03
SEP 04...	0.02	0.03	0.74	0.8	1.2	5.3	0.39	1.2	0.36	1.1

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
NOV 26...	1100	4.1	1.2
MAR 20...	1115	5.4	2.8
MAY 23...	1100	4.7	>4.0
SEP 04...	1000	6.4	0.1

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
MAR 20...	1115	26000	5	<10.00	<1	20	24000	20
MAY 23...	1100	63000	5	<10.00	40	50	46000	40

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
MAR 20...	23	220	450	3	40	6	110
MAY 23...	44	110	1400	1	--	2	200

GREEN RIVER BASIN

127

09314500 PRICE RIVER AT WOODSIDE, UT--Continued
 WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT		
12...	1100	210
NOV		
26...	1100	150
MAR		
20...	1115	240
APR		
25...	1000	80
MAY		
23...	1100	90
JUN		
25...	1000	230
JUL		
24...	1030	120
AUG		
30...	1050	280
SEP		
04...	1000	240

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT					
12...	1100	234	13.0	1080	682
NOV					
26...	1100	233	1.5	255	160
MAR					
20...	1115	169	8.5	1650	753
APR					
25...	1000	674	9.0	4200	7640
MAY					
23...	1100	897	14.5	4010	9710
JUN					
25...	1000	102	18.0	87	24
AUG					
30...	1050	86	21.5	151	35
SEP					
04...	1000	106	19.5	635	182

GREEN RIVER BASIN

09315000 GREEN RIVER AT GREEN RIVER, UT

LOCATION.--Lat 38°59'10", long 110°09'02", in NW1/4NW1/4SW1/4 sec.15, T.21 S., R.16 E., Emery County, Hydrologic Unit 14060008, on right bank 100 ft upstream from site of old highway bridge, 500 ft upstream from railroad bridge, 1.1 mi southeast of town of Green River, 22.5 mi upstream from San Rafael River, at mile 117.4 upstream from mouth.

DRAINAGE AREA.--44,850 mi² approximately, of which about 4,260 mi² (including 3,959 mi² in Great Divide Basin in southern Wyoming) is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1894 to October 1899, October 1904 to current year. Published as "at Blake" 1894-99, as "near Elgin" 1911, and as "at Little Valley, near Green River" 1910-23.

REVISED RECORDS.--WSP 918: 1895-1900. WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,040.18 ft NGVD of 1929. Prior to Nov. 6, 1914, staff, wire-weight, or chain gages at several sites within 7 mi of present site at various datums. Nov. 6, 1914 to June 20, 1924, water-stage recorder at site 7 mi downstream at different datum. June 21 to Sept. 18, 1924, chain gage, and Sept. 19, 1924 to May 7, 1947, water-stage recorder, at site 100 ft downstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation above station. Flow regulated by Fleming Gorge Reservoir (see station 09234400) since Nov. 1, 1962.

AVERAGE DISCHARGE.--86 years, 6,391 ft³/s, 4,630,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,100 ft³/s June 27, 1917, gage height, 14.53 ft, site and datum then in use; minimum, 255 ft³/s Nov. 26, 1931; minimum gage height, 4.08 ft Aug. 1, Dec. 5, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 17,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 23	0300	20,900	11.01	June 1	2400	20,700	10.96
May 12	1730	*27,100	*12.24	June 12	1800	18,600	10.53

Minimum daily, 2,640 ft³/s Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5840	7060	5490	e5600	e5000	7040	7550	13200	20300	8710	6020	2940
2	7170	7150	5250	e5400	e5200	7060	7280	13900	19900	8270	5860	2670
3	7860	7000	e5200	e5200	e5400	7080	7130	15600	19200	7260	5650	2810
4	8100	7560	e5200	e4900	e5400	7080	6950	17100	17500	6730	5520	2940
5	7360	7510	e5200	e4700	e5100	6630	6840	18700	16800	6580	5080	2880
6	6660	7420	e5100	e4500	e5100	5960	7110	21100	15800	6880	4750	3030
7	6550	7160	e5100	e4600	e5100	5880	7830	23100	15200	6640	3920	2880
8	6490	6940	e5200	e5200	e5300	5930	9850	24800	15200	6510	3450	2990
9	6850	7120	e5300	e5900	e5300	6370	9870	25900	15200	6220	3400	2940
10	6570	6250	e5300	e6500	e5100	6040	8860	26200	16300	6300	4120	2900
11	6810	5850	e5200	e6750	e5100	6090	8930	26200	17000	6740	3750	4340
12	6740	6220	e5200	e6600	e5000	6230	10000	26800	18300	6240	3750	4220
13	6630	6370	e5100	e6200	e5100	6980	11600	26700	18400	5680	3570	4070
14	6680	6670	e5100	e5800	e5100	8050	13100	26100	17200	5640	3490	4480
15	6910	6540	e5100	e5500	e5100	9600	e13800	25000	15300	5890	3310	4390
16	6790	6120	e4800	e5300	e5200	10100	e14400	21400	13700	5390	3030	4300
17	7040	6280	e4700	e5200	e5400	9040	e14500	18900	12800	5550	3390	3800
18	6960	6210	e5100	e5000	e4800	9140	e14700	17300	12300	5510	3530	3900
19	7050	6340	e5500	e5200	e4700	9070	15600	16500	12100	5330	3330	4400
20	6690	6370	e5800	e5400	e4800	9040	17000	16500	11900	5360	3350	4160
21	6700	6320	e5700	e5800	e4200	9500	18200	17400	11400	5370	3210	4370
22	7290	5940	e5500	e6200	e4100	9450	19900	18200	10700	5640	2930	4410
23	6960	6170	e5400	e6400	4640	9600	20500	17700	10100	6320	2640	4200
24	6980	5680	e5200	e6600	6490	9930	18700	17600	9560	7790	2760	4040
25	7480	5630	e5100	e6800	7080	10300	17400	17900	9120	7720	2700	3820
26	7250	5360	e5200	e6300	6970	9570	16100	17900	9100	7480	2800	3710
27	6900	5630	e4300	e6400	6840	8820	15500	18300	9000	6680	2790	3780
28	6930	5350	e4000	e6150	6920	8400	15100	19000	8670	6280	2950	3720
29	6570	5560	e4200	e6000	---	8380	14200	19500	8540	7050	2800	3750
30	6750	5470	e4900	e6100	---	9440	13500	20100	8890	6410	2680	3510
31	6940	---	e5100	e5700	---	8640	---	20400	---	6290	2770	---
TOTAL	214500	191250	158540	177900	149540	250440	382000	625000	415480	200460	113300	110350
MEAN	6919	6375	5114	5739	5341	8079	12730	20160	13850	6466	3655	3678
MAX	8100	7560	5800	6800	7080	10300	20500	26800	20300	8710	6020	4480
MIN	5840	5350	4000	4500	4100	5880	6840	13200	8540	5330	2640	2670
ACFT	425500	379300	314500	352900	296600	496700	757700	1240000	824100	397600	224700	218900
CAL YR 1984	TOTAL	3970230	MEAN	10850	MAX	47200	MIN	2460	ACFT	7875000		
WTR YR 1985	TOTAL	2988760	MEAN	8188	MAX	26800	MIN	2640	ACFT	5928000		

e Estimated.

GREEN RIVER BASIN

129

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Daily samples collected at bridge on U.S. Highways 50 and 6, in town of Green River, 0.7 mi from gaging station.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1941 to September 1981, March 1982 to current year.

WATER TEMPERATURES: May 1949 to September 1959, October 1964 to September 1981, March 1982 to current year.

SUSPENDED-SEDIMENT DISCHARGE: May 1930 to September 1984 (discontinued).

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 3,250 microsiemens Dec. 1, 1967; minimum daily, 255 microsiemens June 30, 1978.

WATER TEMPERATURES: Maximum, 30.0°C Aug. 13, 1958; minimum, 0.0°C on many days during winter period each year.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 66,000 mg/L July 11, 1936; minimum daily, 19 mg/L Sept. 30, 1974.

SEDIMENT LOADS: Maximum daily, 2,230,000 tons July 11, 1936; minimum daily, 54 tons Sept. 27, 1956.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum observed, 1,850 microsiemens July 29; minimum recorded, 200 microsiemens June 24.

WATER TEMPERATURES: Maximum recorded, 27.0°C July 12, 14; minimum, 0.0°C many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
10...	1135	6200	870	8.2	24.5	15.5	--	8.3	657	--	--
NOV											
20...	1100	6410	750	8.5	5.0	3.5	36	11.4	660	<1	K31
FEB											
20...	1200	4910	870	8.1	8.5	1.0	--	12.3	651	--	--
MAR											
21...	1130	9610	940	8.4	14.0	6.5	770	10.3	652	<1	<1
APR											
23...	1100	20500	510	8.3	15.0	10.0	700	9.4	660	<1	<1
MAY											
21...	1050	18200	520	8.3	19.0	15.0	240	9.2	660	<1	<1
JUN											
20...	1200	12300	410	8.1	36.5	22.0	--	7.9	650	--	--
JUL											
25...	1030	7640	830	8.1	30.0	23.0	3500	7.0	660	<1	<1
AUG											
20...	1035	3500	840	8.3	28.5	22.0	--	--	--	--	--
SEP											
04...	1430	3080	900	8.5	23.0	--	100	7.7	657	K10	K150

K Results based on colony count outside acceptable range (non-ideal colony count).

GREEN RIVER BASIN

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	CAR- BONATE IT-FLD (MG/L AS CO3)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L - CACO3)
OCT 10...	300	6.0	66	33	72	34	1.9	2.5	--	--	--
NOV 20...	300	5.9	66	32	65	32	1.7	2.2	230	16	197
FEB 20...	300	6.0	70	31	63	31	1.6	2.5	--	--	--
MAR 21...	310	6.3	68	35	91	38	2.3	3.0	270	20	222
APR 23...	190	3.7	50	15	35	28	1.2	4.0	270	--	218
MAY 21...	210	4.2	48	22	35	26	1.1	1.8	160	--	131
JUN 20...	150	3.0	35	15	27	28	1	1.4	--	--	--
JUL 25...	250	5.0	61	24	89	43	2.5	3.8	250	--	201
AUG 20...	300	6.0	66	33	75	35	1.9	3.1	--	--	--
SEP 04...	320	6.4	71	35	82	35	2.0	3.4	220	8.2	183

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT 10...	230	22	0.3	8.0	--	541	0.74	9050	0.14	--
NOV 20...	220	22	0.3	6.9	537	561	0.73	9290	0.25	0.01
FEB 20...	230	22	0.3	7.9	--	427	0.58	5660	0.41	--
MAR 21...	280	30	0.4	9.2	627	690	0.85	16300	0.6	0.04
APR 23...	100	33	0.1	8.6	317	377	0.43	17500	0.61	0.05
MAY 21...	140	11	0.2	10	350	347	0.48	17200	0.47	0.03
JUN 20...	96	8.5	0.2	9.4	--	251	0.34	8330	0.18	--
JUL 25...	230	24	0.4	10	552	565	0.77	11700	0.46	0.02
AUG 20...	240	26	0.3	7.0	--	548	0.74	5180	<0.1	--
SEP 04...	270	28	0.3	5.6	609	623	0.83	5060	<0.1	<0.01

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT 10...	--	--	--	--	--	--	--	--	<0.01	0.03
NOV 20...	0.01	0.5	0.5	0.5	2.2	0.10	--	<0.01	<0.01	0.03
FEB 20...	--	--	--	--	--	--	--	--	<0.01	0.03
MAR 21...	0.05	1.5	1.50	1.5	6.6	1.20	--	0.02	0.02	0.06
APR 23...	0.06	2.5	2.50	2.5	11	0.86	--	0.07	<0.01	0.03
MAY 21...	0.04	0.7	0.7	0.7	3.1	0.16	0.49	0.02	<0.01	0.03
JUN 20...	--	--	--	--	--	--	--	--	0.08	0.25
JUL 25...	0.03	7.3	7.30	7.3	32	7.50	23	0.13	<0.01	0.03
AUG 20...	--	--	--	--	--	--	--	--	0.02	0.06
SEP 04...	0.01	0.8	0.8	0.8	3.5	0.03	0.09	<0.01	0.01	0.03

GREEN RIVER BASIN

131

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
MAR 21...	1130	--	<15	48	<8.3	41	<7.1	35	0.14	6.1
MAY 21...	1050	22	<10	33	<4.8	26	<4.1	23	0.09	2.8

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV 20...	1100	20	1	99.00	<0.50	1	2	<3.00	1	5.00	2
APR 23...	1100	<10	1	6.00	<0.50	<1	<1	<3.00	2	20	2
JUL 25...	1030	<10	3	86.00	<0.50	<1	<1	<3.00	9	<3.00	<1
SEP 04...	1430	<10	2	120	<0.50	<1	<1	<3.00	6	<3.00	<1

DATE	TIME	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 20...	40	3	<0.1	<10	<1	2	<1	710	<6.0	40	
APR 23...	20	12	0.2	<10	2	1	4	430	<6.0	6.00	
JUL 25...	30	3	<0.1	<10	<1	2	<1	720	<6.0	6.00	
SEP 04...	40	6	<0.1	<10	2	2	<1	810	<6.0	8.00	

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 10...	1135	160
FEB 20...	1200	120
JUN 20...	1200	60
AUG 20...	1035	150

GREEN RIVER BASIN

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

SPECIFIC CONDUCTANCE (US/CM) WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	840	810	650	---	710	880	1020	740	410	---	820	920
2	950	810	660	650	680	920	990	750	410	---	840	910
3	850	---	---	670	710	930	---	750	400	580	810	930
4	840	800	660	690	700	890	990	---	---	610	790	910
5	---	810	660	680	730	840	1000	630	---	610	---	930
6	890	810	680	---	---	---	1000	570	460	600	---	---
7	860	810	660	---	720	900	1000	570	480	620	---	930
8	860	810	690	720	770	900	1000	550	470	660	880	950
9	840	820	---	720	700	910	1060	530	460	660	880	990
10	830	820	680	730	760	---	---	---	450	670	850	980
11	840	830	690	700	720	910	890	500	410	670	850	970
12	830	860	660	670	750	880	870	500	390	670	830	1190
13	840	850	660	690	760	920	900	490	370	700	830	1160
14	820	830	640	700	810	880	---	---	360	700	820	980
15	---	820	660	700	800	870	770	490	360	720	820	---
16	820	820	---	740	810	930	730	480	380	---	820	---
17	820	830	700	740	---	960	700	500	---	720	840	1000
18	810	830	690	730	800	---	640	530	400	720	870	1020
19	810	830	700	730	800	950	640	550	410	740	870	1310
20	---	---	690	710	830	950	630	570	410	---	870	1010
21	840	810	660	690	840	950	600	560	420	940	860	---
22	840	830	650	690	---	960	580	550	410	850	880	950
23	840	830	670	660	870	960	570	530	420	950	880	970
24	840	820	680	640	860	930	630	---	435	870	870	---
25	830	820	790	650	860	930	630	520	455	850	890	1010
26	840	860	---	660	890	960	660	510	470	---	890	1000
27	840	860	790	680	---	960	710	500	500	---	890	1010
28	---	---	730	710	890	---	710	480	500	1830	---	1010
29	840	860	600	630	---	970	720	480	550	1850	900	1000
30	840	850	680	---	---	970	---	---	---	940	900	1000
31	840	---	790	710	---	990	---	---	---	860	---	---
MEAN	840	830	680	690	780	930	790	550	430	820	860	1000

TEMPERATURE, WATER (DEG C) WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	8.0	1.0	---	.0	4.0	7.0	16.0	17.0	---	24.0	24.0
2	14.0	8.0	.0	.0	.0	4.0	8.0	16.0	17.0	---	24.0	23.0
3	15.0	---	---	1.0	.0	2.0	---	17.0	18.0	24.0	25.0	23.0
4	15.0	8.0	1.0	1.0	.0	2.0	11.0	---	---	25.0	24.0	23.0
5	---	8.0	1.0	1.0	.0	3.0	12.0	17.0	---	25.0	---	22.0
6	15.0	8.0	1.0	---	---	---	12.0	16.0	19.5	26.5	---	---
7	15.0	8.0	1.0	---	1.0	3.5	13.0	16.0	21.0	26.0	---	20.0
8	15.0	8.0	.0	.5	1.0	3.5	14.0	16.0	22.0	26.0	24.0	20.0
9	16.0	7.0	---	.5	1.0	3.5	14.0	15.0	22.0	26.5	24.0	20.0
10	16.0	5.0	.0	.0	2.0	---	---	---	22.0	26.0	24.0	19.0
11	16.0	6.0	1.0	.0	2.0	3.5	15.0	13.0	22.0	26.0	24.0	17.0
12	15.0	5.0	2.0	.0	2.0	4.0	15.0	13.0	22.0	27.0	22.0	17.0
13	15.0	6.0	1.0	.0	2.0	4.0	15.0	14.0	22.0	26.0	22.0	18.0
14	15.0	7.0	1.0	.0	2.0	4.0	---	---	22.0	27.0	23.0	18.0
15	---	6.0	1.0	.0	2.0	4.0	15.0	15.0	21.0	26.0	23.5	---
16	11.0	6.0	---	.0	3.0	3.5	15.0	15.0	22.0	---	23.0	---
17	9.0	6.0	.0	1.0	---	7.0	15.0	15.0	---	26.0	24.0	17.0
18	8.5	6.0	.0	1.0	3.0	---	13.0	15.0	23.0	26.0	24.0	17.0
19	8.0	4.0	.0	1.0	3.0	8.0	13.0	16.0	23.0	24.5	23.0	17.0
20	---	---	.0	1.0	4.0	9.0	13.0	16.0	24.0	---	24.0	17.0
21	8.0	5.0	.0	1.0	4.0	8.0	12.0	16.0	24.0	24.0	24.0	---
22	8.0	4.0	.0	.0	---	6.0	12.0	17.5	24.0	24.0	24.0	17.0
23	8.0	4.5	.0	1.0	4.0	6.0	11.0	18.0	23.0	24.0	25.0	16.0
24	8.0	4.0	.0	1.0	3.0	7.0	10.0	---	23.0	23.0	25.0	---
25	8.0	4.0	.0	1.0	3.0	7.5	10.0	18.0	21.0	23.0	25.0	16.0
26	8.0	4.0	---	2.0	3.0	7.5	10.0	18.0	20.0	---	---	16.0
27	8.0	3.0	.0	1.0	---	7.5	11.0	18.0	21.0	---	25.0	16.0
28	---	---	.0	1.0	3.0	---	12.0	18.0	21.0	23.0	---	16.0
29	8.5	3.0	.0	2.0	---	6.0	13.0	18.0	22.0	22.0	25.0	15.0
30	8.5	3.0	.0	---	---	6.0	---	---	---	23.0	25.0	15.0
31	9.0	---	1.0	2.0	---	7.0	---	---	---	23.0	---	---
MEAN	11.5	5.5	.5	.5	2.0	5.0	12.5	16.0	21.5	25.0	24.0	18.5

GREEN RIVER BASIN

133

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 10...	1135	6200	15.5	--	388	6500
NOV 20...	1100	6410	3.5	89	166	2870
MAR 21...	1130	9610	6.5	93	1770	45900
APR 23...	1100	20500	10.0	80	3210	178000
MAY 21...	1050	18200	15.0	80	1310	64400
JUL 25...	1030	7640	23.0	--	9460	195000
AUG 20...	1035	3500	22.0	--	121	1140
SEP 04...	1430	3080	32.5	89	274	2280

GREEN RIVER BASIN

09316100 FLOY WASH NEAR GREEN RIVER, UT

LOCATION.--Lat 38°55'24", long 109°56'30", in SE1/4SW1/4 sec.4, T.22 S., R.18 E., Grand County, Hydrologic Unit 14060008, on left bank, 200 ft below Amtrak Railroad and 7.3 mi west of Crescent Junction.

DRAINAGE AREA.--56.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,590 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of approximately 200 acres above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,170 ft³/s July 29, 1985, gage height, 11.09 ft, from rating curve extended above 1,400 ft³/s; no flow several days in January 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,170 ft³/s July 29, gage height, 11.09 ft, from rating curve extended above 1,400 ft³/s; minimum daily discharge, 0.14 ft³/s, Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	1.2	e.20	e.53	e.14	.38	.92	.57	.91	.69	e1.7	1.4
2	4.4	1.2	e.34	e.42	e.18	.46	.85	.53	.92	.73	e1.7	1.6
3	.40	1.1	e.36	e.40	e.22	.57	.88	.53	.76	.74	e1.7	1.5
4	3.5	1.1	e.33	e.41	e.20	.53	.86	.52	.70	.62	e1.6	1.5
5	.43	1.2	e.32	e.39	e.15	.66	.92	.52	.70	.57	e1.6	1.5
6	.43	1.3	e.31	e.43	e.17	.40	.85	.53	.54	.51	e1.6	1.5
7	.46	1.2	e.32	e.69	e.19	.51	.76	.54	.52	.48	e1.4	1.8
8	.68	1.2	e.43	e.70	e.39	.37	.78	.52	.52	.48	1.4	1.5
9	.84	1.4	e.62	e.73	e.46	.43	.75	.60	.54	.48	1.4	1.4
10	e.80	.97	e.78	e.75	e.34	1.3	.76	.71	.59	.48	1.5	1.4
11	e.80	1.1	e.90	e.68	e.21	.79	.83	.65	.53	.51	1.6	10
12	e.90	1.2	e.94	e.61	e.23	1.1	.87	.58	.59	.53	1.5	2.3
13	e.90	1.3	e.78	e.52	e.25	.97	1.0	.59	.63	.64	1.5	1.5
14	e.90	1.3	e.94	e.18	e.34	.92	1.1	.57	.58	.70	1.5	1.5
15	e.90	1.2	e.83	e.16	e.36	.98	1.1	.53	.62	.64	1.5	1.5
16	e.90	1.4	e.79	e.18	e.38	2.1	1.1	.51	.64	.63	1.4	1.5
17	e1.0	1.4	e.52	e.18	e.41	e2.7	1.1	.50	.64	.69	1.4	1.5
18	e1.2	.79	e.57	e.22	e.33	e1.4	1.8	.54	.63	.69	1.4	4.6
19	e2.0	e.70	e.61	e.28	e.29	e1.2	e1.0	.64	.56	.73	1.4	2.6
20	e2.2	e.40	e.63	e.31	e.31	e1.1	e.90	.55	.53	4.4	1.4	1.0
21	e1.8	e.20	e.59	e.47	e.33	e1.0	e.85	.62	.58	2.7	1.4	1.2
22	e1.8	.17	e.56	e.66	e.35	e.90	e.78	.53	.63	1.9	1.4	1.1
23	e1.9	.16	e.54	e.62	.43	e.90	e.81	.54	.58	.95	1.3	1.1
24	e2.0	.18	e.50	e.64	.43	e1.1	e.78	.49	.63	1.0	1.3	1.2
25	e2.2	.43	e.52	e.61	.37	e2.7	e.76	.49	.97	.90	1.3	1.2
26	e1.8	e.24	e.54	e.73	.47	e3.1	e.63	.56	.93	.74	1.3	1.2
27	e1.6	e.20	e.61	e.76	1.5	1.1	e.69	.51	.83	.64	1.4	1.2
28	e1.4	.29	e.59	e.49	.36	2.6	e.79	.52	.73	.63	1.4	1.2
29	e1.4	.46	e.54	e.54	---	3.0	e.80	.59	.74	e37	1.4	1.2
30	1.2	.26	e.57	e.62	---	1.0	.63	.64	.71	e4.3	1.4	1.3
31	1.2	---	e.56	e.37	---	.95	---	.88	---	e1.9	1.4	---
TOTAL	54.94	25.25	17.64	15.28	9.79	37.22	26.65	17.60	19.98	68.60	45.2	55.0
MEAN	1.77	.84	.57	.49	.35	1.20	.89	.57	.67	2.21	1.46	1.83
MAX	13	1.4	.94	.76	1.5	3.1	1.8	.88	.97	.37	1.7	10
MIN	.40	.16	.20	.16	.14	.37	.63	.49	.52	.48	1.3	1.0
ACFT	109	50	35	30	19	74	53	35	40	136	90	109
CAL YR 1984	TOTAL	347.05	MEAN	.95	MAX	42	MIN	.00	ACFT	688		
WTR YR 1985	TOTAL	393.15	MEAN	1.08	MAX	37	MIN	.14	ACFT	780		

e Estimated.

GREEN RIVER BASIN

135

09316100 FLOY WASH NEAR GREEN RIVER, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1983 to current year.

SEDIMENT DATA: April 1983 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	
OCT 29...	1000	1.4	2460	8.6	15.0	8.0	680	14	74	120	340	52	
DEC 12...	1545	0.89	2430	8.7	11.0	5.0	750	15	86	130	350	50	
JAN 24...	1315	0.7	2780	8.6	2.0	2.0	780	16	100	130	410	53	
MAR 29...	1430	1.1	2440	8.5	0.0	7.5	690	14	80	120	340	51	
APR 29...	1120	0.94	2520	8.5	25.0	14.5	670	13	70	120	360	54	
MAY 29...	0945	0.68	2890	8.5	27.5	15.0	680	14	74	120	380	55	
JUN 27...	1100	0.83	2580	8.5	20.5	19.0	710	14	71	130	400	55	
JUL 26...	0900	0.73	2520	8.6	25.5	18.0	640	13	60	120	400	57	
AUG 26...	1500	1.1	2400	8.6	32.0	29.5	620	12	50	120	360	56	
SEP 05...	1030	1.4	2190	8.5	24.0	15.5	620	12	65	110	310	52	
DATE		SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 29...	5.8	3.4	450	990	31	0.2	17	1840	2.5	7.2	<0.1	0.01	
DEC 12...	5.6	3.4	620	940	30	0.2	17	1560	2.1	3.7	<0.1	0.01	
JAN 24...	6.5	3.5	450	1200	34	0.2	17	2160	2.9	4.1	<0.1	0.20	
MAR 29...	5.7	3.7	380	930	26	0.2	16	1740	2.4	5.3	<0.1	0.01	
APR 29...	6.1	3.9	370	1100	27	0.2	17	1920	2.6	4.9	<0.1	0.02	
MAY 29...	6.4	3.2	350	1200	41	0.2	16	2040	2.8	3.7	<0.1	<0.01	
JUN 27...	6.6	3.4	380	990	15	0.0	17	1840	2.5	4.1	<0.1	<0.01	
JUL 26...	6.9	10	410	1000	40	0.3	17	1650	2.2	3.2	<0.1	0.00	
AUG 26...	6.4	4.3	410	870	30	0.2	18	1700	2.3	5.0	<0.1	0.14	
SEP 05...	5.5	3.8	430	760	26	0.2	16	1550	2.1	6.0	<0.1	0.05	

GREEN RIVER BASIN

09316100 FLOY WASH NEAR GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 29...	1000	120
DEC 12...	1545	110
JAN 24...	1315	120
MAR 29...	1430	90
APR 29...	1120	110
MAY 29...	0945	120
JUN 27...	1100	120
JUL 26...	0900	80
AUG 26...	1500	120
SEP 05...	1030	90

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM
OCT 29...	1000	1.4	8.0	1500	5.7	--	--
DEC 12...	1545	0.89	5.0	1260	3.0	30	55
JAN 24...	1315	0.7	.0	260	0.49	--	--
MAR 29...	1430	1.1	7.5	2270	6.7	--	--
APR 29...	1120	0.94	14.5	1280	3.2	--	--
MAY 29...	0945	0.68	15.0	1580	2.9	14	22
JUN 27...	1100	0.83	19.0	343	0.77	--	--
JUL 26...	0900	0.73	18.0	2220	4.4	--	--
AUG 26...	1500	1.1	29.5	594	1.8	50	78
SEP 05...	1030	1.4	15.5	703	2.7	--	--

DATE	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .125 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .250 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .500 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN 1.00 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN 2.00 MM
OCT 29...	--	--	--	--	--	--	--
DEC 12...	76	85	86	92	98	99	100
JAN 24...	--	--	--	--	--	--	--
MAR 29...	--	--	--	--	--	--	--
APR 29...	--	--	--	--	--	--	--
MAY 29...	31	60	78	95	100	--	--
JUN 27...	--	--	--	--	--	--	--
JUL 26...	--	--	--	--	--	--	--
AUG 26...	95	100	--	--	--	--	--
SEP 05...	--	--	--	--	--	--	--

GREEN RIVER BASIN

137

09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UT
(Transmountain diversion)

LOCATION.--Lat 39°19'47", long 111°25'51", in SE1/4SE1/4SE1/4 sec.14, T.17 S., R.4 E., Sanpete County, Hydrologic Unit 14060009, at east tunnel portal, 9.0 mi east of Ephraim.

PERIOD OF RECORD.--September 1949 to current year. Monthly discharge only for September 1949 to September 1960; figures of daily discharge available in Salt Lake City District Office, Geological Survey. Seasonal records only since October 1971.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 9,694.9 ft NGVD of 1929. (Levels by U.S. Geological Survey, Topographic Division.)

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow is seasonal. Tunnel diverts from Cottonwood Creek drainage in Colorado River Basin to San Pitch River in the Great Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft³/s June 6, 1964, gage height, 5.43 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15 ft³/s June 9, gage height, 1.98 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									e8.5	3.9	1.4	.00
2									e8.0	3.6	1.3	.00
3									e8.0	3.5	1.1	.00
4									e8.0	3.4	1.2	.01
5									e8.5	4.0	1.0	.01
6									e9.0	4.8	.93	.00
7									e9.5	4.4	.85	.01
8									e9.8	4.5	.77	.01
9									7.0	4.5	.66	.00
10									6.2	4.3	.59	.00
11									1.5	4.0	.56	.11
12									.17	4.1	.50	.12
13									.13	4.1	.44	.04
14									.13	3.7	.39	.01
15									.13	3.6	.36	.01
16									.06	3.4	.32	.00
17									.06	3.5	.30	.00
18									4.4	3.5	.32	.00
19									10	3.2	.27	.01
20									9.0	3.8	.20	.00
21									8.5	4.7	.18	.00
22									7.0	3.1	.13	.00
23									6.1	3.2	.12	.00
24									6.5	2.7	.10	.00
25									4.8	2.3	.07	.00
26									6.6	2.1	.04	.00
27									4.6	1.8	.03	.00
28									4.5	1.8	.04	.00
29									4.1	1.7	.01	.00
30									4.1	1.6	.01	.00
31									---	1.5	.00	---
TOTAL									164.88	104.3	14.19	.34
MEAN									5.50	3.36	.46	.01
MAX									10	4.8	1.4	.12
MIN									.06	1.5	.00	.00
ACFT									327	207	28	.7

e Estimated.

GREEN RIVER BASIN

09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UT
(Transmountain diversion)

LOCATION.--Lat 39°25'34", long 111°21'51", in NW1/4SW1/4SE1/4 sec.16, T.16 S., R.5 E., Sanpete County, Hydrologic Unit 14060009, at west portal of tunnel, 11 mi east of Spring City.

PERIOD OF RECORD.--October 1949 to current year. Monthly discharges only for October 1949 to September 1960. Figures of daily discharge available from Salt Lake City District Office, Geological Survey. Seasonal records only since October 1971.

GAGE.--Water-stage recorder. Datum of gage is 9,838 ft NGVD of 1929. Prior to Aug. 24, 1960, at datum about 0.3 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Tunnel diverts from Cottonwood Creek drainage in Colorado River Basin to San Pitch River in the Great Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 111 ft³/s July 23, 1965; possibly no flow at times in some years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								e8.0	e19	e6.5	2.4	1.4
2								e9.0	e18	e6.0	2.3	1.4
3								e10	e18	e6.0	2.3	1.3
4								e11	e19	e5.7	2.2	1.3
5								e12	e20	e5.4	2.1	1.2
6								e13	e21	e5.4	2.1	1.2
7								e13	e23	e5.4	2.0	1.3
8								e13	e23	e5.4	2.0	1.2
9								e12	e24	e5.0	1.9	1.1
10								e12	e23	e4.7	1.9	1.1
11								e12	e22	e4.4	1.9	2.2
12								e12	e20	4.5	1.8	1.6
13								e12	e19	4.5	1.7	1.4
14								e12	e19	4.3	1.8	e1.0
15								e12	e19	4.0	1.7	e1.0
16								e12	e18	4.0	1.7	e.96
17								e12	e17	3.7	1.7	e.96
18								e12	e17	3.8	1.7	e1.0
19								e13	e16	3.6	1.6	e1.2
20								e14	e15	4.8	1.6	e1.0
21								e15	e14	5.6	1.5	e1.0
22								e15	e13	4.0	1.5	e1.0
23								e16	e12	5.1	1.5	e1.0
24								e16	e11	3.6	1.4	e1.0
25								e16	e10	3.3	1.4	e1.0
26								e18	e9.5	3.2	1.4	e1.0
27								e20	e8.5	3.0	1.4	e1.0
28								e19	e8.0	2.9	1.4	e1.0
29								e18	e7.4	2.8	1.3	e1.0
30								e20	e7.2	2.7	1.3	e1.0
31								e20	---	2.5	1.3	---
TOTAL								429.0	490.6	135.8	53.8	34.82
MEAN								13.8	16.4	4.38	1.74	1.16
MAX								20	24	6.5	2.4	2.2
MIN								8.0	7.2	2.5	1.3	.96
ACFT								851	973	269	107	69

e Estimated.

GREEN RIVER BASIN

139

09323900 JOES VALLEY RESERVOIR NEAR ORANGEVILLE, UT

LOCATION.--Lat 39°17'20", long 111°16'10", in NW1/4NE1/4 sec.5, T.18 S., R.6 E., Emery County, Hydrologic Unit 14060009, on Seeley Creek 5.2 mi upstream from Cottonwood Creek, and 12.6 mi west of Orangeville.

DRAINAGE AREA.--146 mi².

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

GAGE.--Mercury gage in control house at downstream end of outlet tunnel. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill rock-faced dam. Storage began Nov. 3, 1965. Usable capacity, 54,610 acre-ft between elevations 6,910.0 and 6,989.7 ft above mean sea level. Dead storage, 870 acre-ft between elevations 6,817.0 and 6,866.5 ft. Inactive storage, 6,980 acre-ft between elevations 6,866.5 and 6,910.0 ft. Figures given herein represent total contents. Water is used for irrigation. Huntington North Reservoir, a small off-channel reservoir near Huntington, is operated in conjunction with Joes Valley Reservoir; records not included.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 66,030 acre-ft June 20, 21, 1983; minimum observed since reservoir was first filled, 7,710 acre-ft Oct. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 65,190 acre-ft June 10, elevation, 6,992.0 ft; minimum observed, 45,890 acre-ft, Sept. 30, elevation, 6,974.2 ft.

MONTHEND ELEVATION, IN FEET, AND CONTENTS AT 2400, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	6,977.6	49,230	-
Oct. 31	6,977.5	49,130	-100
Nov. 30	6,978.5	50,150	+1,020
Dec. 31	6,978.4	50,040	-110
CAL YR 1984	-	-	+1,410
Jan. 31	6,977.9	49,540	-500
Feb. 28	6,977.7	49,330	-210
Mar. 31	6,976.5	48,130	-1,200
Apr. 30	-	*54,570	+6,440
May 31	6,991.3	64,350	+9,780
June 30	6,989.8	62,580	-1,770
July 31	-	*55,660	-6,920
Aug. 31	-	*48,230	-7,430
Sept. 30	6,974.2	45,890	-2,340
WTR YR 1985	-	-	-3,340

* No gage reading, contents interpolated.

GREEN RIVER BASIN

09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UT

LOCATION.--Lat 39°06'15", long 111°12'47", in NE1/4SE1/4SW1/4 sec.2, T.20 S., R.6 E., Emery County, Hydrologic Unit 14060009, on right bank 1.8 mi upstream from Dry Wash and 4.5 mi west of Ferron.

DRAINAGE AREA.--138 mi².

PERIOD OF RECORD.--May 1911 to September 1923, October 1947 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for station at site 2 mi downstream published as Ferron Creek near Ferron, Apr. 1909 to Oct. 1911, not equivalent because of diversions 1.5 mi downstream from present site.

REVISED RECORDS.--WSP 1243: 1951(P). WSP 1313: 1920(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,210 ft from topographic map. May 6, 1911 to Sept. 30, 1923, nonrecording gages in vicinity of present site at different datums. Dec. 19, 1947 to Sept. 30, 1966, at site 1.5 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Slight regulation by small reservoir above station (capacity not known). Small diversions above station for irrigation, including a transmountain diversion to tributary of San Pitch River (Sevier Lake basin). Greater part of flow diverted during irrigation season by Upper North and Upper South Canals, 1.5 mi below station.

AVERAGE DISCHARGE.--50 years, 69.5 ft³/s, 50,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,180 ft³/s Aug. 21, 1952, gage height, 9.71 ft, site and datum then in use, from rating table extended above 400 ft³/s on basis of slope-area measurements at gage heights 8.70 ft and 9.71 ft; site and datum then in use; no flow Oct. 19-21, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	unknown	*750	*6.52	No other peak greater than base discharge.			

Minimum daily, 6.0 ft³/s Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e42	e44	e28	e19	e6.0	e18	e35	187	311	120	e35	24
2	e110	e42	e27	e15	e6.5	e19	e68	229	311	116	e35	24
3	e100	e41	e26	e12	e8.0	e14	e150	273	302	110	e33	23
4	e60	e41	e27	e13	e7.5	e12	e98	316	310	105	e35	22
5	e56	e39	e28	e13	e7.0	e13	e105	342	331	100	e35	19
6	e52	e41	e26	e14	e8.0	e15	e110	323	348	95	e34	19
7	e50	e42	e27	e16	e8.5	e15	e105	327	357	91	e33	23
8	e52	e40	e22	e17	e9.5	e17	e100	331	347	e80	e33	22
9	e52	e34	e21	e16	e11	e19	e110	352	349	e79	e32	20
10	e48	e32	e22	e13	e11	e20	e115	341	334	e76	e32	19
11	e49	e30	e23	e14	e10	e18	e120	299	297	e72	e31	47
12	e52	e30	e24	e15	e12	e18	140	273	275	e70	e31	31
13	e50	e29	e23	e12	e13	e19	141	239	263	e72	e30	23
14	e52	e29	e22	e14	e14	e19	160	225	260	e66	28	21
15	e53	e28	e21	e15	e14	e19	183	221	250	e64	28	20
16	e54	e29	e22	e14	e15	e19	195	221	255	e80	27	20
17	e95	e27	e17	e13	e17	e21	188	222	220	e62	27	19
18	e80	e25	e19	e13	e16	e19	183	239	206	e60	28	24
19	e54	e30	e20	e16	e15	e21	162	266	189	63	27	51
20	e50	e29	e22	e17	e16	e23	145	285	179	65	26	19
21	e48	e30	e19	e16	e18	e23	128	288	170	124	25	18
22	e46	e30	e16	e12	e17	e21	117	286	160	95	25	17
23	e48	e29	e18	e11	e17	e21	111	296	150	e66	24	16
24	e48	e27	e20	e12	e16	e32	111	307	153	e45	24	15
25	e46	e25	e17	e13	e17	e40	107	315	178	e44	24	15
26	e45	e24	e16	e12	e15	e35	107	363	162	e44	25	15
27	e47	e27	e19	e13	e16	e28	109	400	146	e45	30	16
28	e46	e29	e21	e12	e17	e25	123	404	135	e44	26	16
29	e44	e32	e19	e13	---	e25	141	383	130	e50	23	14
30	e43	e30	e17	e9.0	---	e30	166	353	122	e43	24	14
31	e42	---	e18	e8.0	---	e27	---	332	---	e37	24	---
TOTAL	1714	965	667	422.0	358.0	665	3833	9248	7180	2283	894	646
MEAN	55.3	32.2	21.5	13.6	12.8	21.5	128	298	239	73.6	28.8	21.5
MAX	110	44	28	19	18	40	195	404	357	124	35	51
MIN	42	24	16	8.0	6.0	12	35	187	122	37	23	14
ACFT	3400	1910	1320	837	710	1320	7600	18340	14240	4530	1770	1280

CAL YR 1984	TOTAL	52403.0	MEAN	143	MAX	1240	MIN	8.0	ACFT	103900
WTR YR 1985	TOTAL	28875.0	MEAN	79.1	MAX	404	MIN	6.0	ACFT	57270

e Estimated.

GREEN RIVER BASIN

141

09327550 FERRON CREEK BELOW PARADISE RANCH, NEAR CLAWSON, UT

LOCATION.--Lat 39°07'09", long 110°59'20", in SW1/4SW1/4SE1/4 sec.35, T.19 S., R.8 E., Emery County, Hydrologic Unit 14060009, on left bank 5.5 mi southeast of Clawson.

DRAINAGE AREA.--221 mi².

PERIOD OF RECORD.--October 1975 to current year.

REVISED RECORDS.--WDR UT-77-1: 1976(M); WDR UT-84-1: 1980-83 (average discharge).

GAGE.--Water-stage recorder. Altitude of gage is 5,600 ft from topographic map.

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

AVERAGE DISCHARGE.--10 years, 60.6 ft³/s, 43,830 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,440 ft³/s July 23, 1984, gage height, 7.16 ft from rating curve extended above 1,840 ft³/s on basis of slope-area measurement of peak flow; no flow on many days.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 140 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	2030	2,280	7.25	May 28	1230	377	4.57
May 11	0230	300	4.65	July 22	2100	*2,670	*6.99

Minimum daily, 2.5 ft³/s Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	18	e14	e8.5	e2.5	e7.0	6.0	140	232	45	24	15
2	472	18	e14	e8.0	e3.0	e7.5	6.0	169	204	47	23	15
3	240	19	e14	e6.5	e3.5	e6.0	6.0	211	204	46	23	13
4	35	18	e13	e7.0	e3.2	e6.5	6.0	214	184	45	24	14
5	25	18	e14	e6.5	e3.0	e8.0	5.6	250	203	44	25	14
6	28	18	e13	e7.5	e3.2	e9.5	5.6	227	214	43	26	14
7	26	19	e12	e8.0	e3.3	e9.0	5.6	205	236	41	26	13
8	25	19	e13	e8.5	e3.4	e10	5.6	193	255	42	23	16
9	26	20	e12	e9.0	e3.5	e11	5.6	179	253	42	22	16
10	25	19	e13	e7.5	e4.0	e10	5.2	214	237	42	22	13
11	25	20	e13	e8.0	e4.5	e12	5.7	258	194	40	22	21
12	25	20	e13	e8.5	e5.0	9.1	5.4	156	163	51	21	25
13	25	20	e12	e8.0	e5.0	6.0	5.5	116	156	33	20	15
14	26	20	e11	e7.5	e6.0	6.0	5.5	85	145	30	20	15
15	25	19	e11	e8.5	e5.5	6.0	5.4	73	130	30	20	16
16	25	19	e10	e8.0	e6.0	6.6	5.4	68	113	29	18	18
17	28	19	e9.5	e7.5	e6.5	6.6	5.4	68	105	30	18	17
18	28	19	e9.0	e8.0	e6.5	6.0	5.8	71	89	31	20	19
19	27	18	e9.5	e10	e6.0	6.6	6.1	90	64	29	21	22
20	28	17	e10	e9.0	e6.5	6.6	5.9	130	64	27	22	19
21	27	18	e9.0	e8.5	e7.0	6.6	6.6	160	66	70	21	18
22	25	18	e8.0	e7.0	e6.5	6.0	6.3	165	61	336	21	16
23	23	17	e7.5	e6.5	e6.0	6.6	8.6	173	53	122	19	16
24	22	17	e7.0	e7.0	e6.5	6.6	29	185	44	38	17	16
25	21	17	e7.5	e7.5	e6.0	6.6	68	200	52	23	14	16
26	21	15	e8.0	e6.5	e5.6	6.0	132	228	57	21	13	16
27	22	e13	e8.5	e7.0	e6.0	6.0	122	283	50	21	13	16
28	21	e12	e8.5	e6.0	e6.5	6.6	111	325	47	21	12	16
29	21	e13	e9.0	e6.5	---	7.2	111	310	44	24	11	15
30	20	e14	e8.0	e5.0	---	6.6	131	275	44	25	14	16
31	20	---	e8.0	e3.0	---	6.6	---	251	---	25	16	---
TOTAL	1482	531	329.0	230.5	140.2	227.4	838.8	5672	3963	1493	611	491
MEAN	47.8	17.7	10.6	7.44	5.01	7.34	28.0	183	132	48.2	19.7	16.4
MAX	472	20	14	10	7.0	12	132	325	255	336	26	25
MIN	20	12	7.0	3.0	2.5	6.0	5.2	68	44	21	11	13
ACFT	2940	1050	653	457	278	451	1660	11250	7860	2960	1210	974

CAL YR 1984	TOTAL	55062.2	MEAN	150	MAX	1670	MIN	2.0	ACFT	109200
WTR YR 1985	TOTAL	16008.9	MEAN	43.9	MAX	472	MIN	2.5	ACFT	31750

e Estimated.

GREEN RIVER BASIN

09328000 SAN RAFAEL RIVER NEAR CASTLE DALE, UT

LOCATION.--Lat 39°08'37", long 110°53'50", In SE1/4SE1/4NW1/4 sec.27, T.19 S., R.9 E., Emery County, Hydrologic Unit 14060009, on left bank 1.7 mi downstream from Ferron Creek and 8.3 mi southeast of Castle Dale.

DRAINAGE AREA.--930 mi².

PERIOD OF RECORD.--October 1947 to September 1964, August 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,320 ft from topographic map. Prior to July 11, 1956, at site 0.7 mi upstream at different datum. July 11, 1956 to Sept. 30, 1964, at site 0.6 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation above station, including transmountain diversions to Sevier Lake basin.

AVERAGE DISCHARGE.--30 years (1947-64, 1972-85), 129 ft³/s, 93,460 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,510 ft³/s June 3, 1952, gage height, 7.56 ft, site and datum then in use; no flow several days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	2330	1,470	6.80	June 10	1030	1,300	6.46
May 28	1230	1,160	6.23	July 21	2300	*1,690	*7.04

Minimum daily, 30 ft³/s Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	368	110	e95	e54	e30	e170	118	281	984	104	137	49
2	598	118	e92	e47	e45	e180	128	302	839	107	117	53
3	622	126	e95	e41	e60	e130	153	367	742	107	115	55
4	330	130	e94	e48	e54	e150	163	387	693	105	105	55
5	216	129	e96	e46	e50	e190	146	430	691	112	105	55
6	194	132	e95	e56	e62	e230	136	406	743	111	91	55
7	183	e135	e98	e60	e78	e210	140	415	846	112	84	50
8	174	e130	e98	e68	e86	e240	146	421	959	118	66	65
9	165	e130	e97	e74	e99	e270	153	449	1020	111	66	68
10	161	e126	e98	e60	e102	e260	170	633	1080	107	57	61
11	142	e127	e105	e64	e108	e300	169	712	999	104	67	113
12	146	e130	e100	e70	e105	e320	176	625	763	146	e65	194
13	133	e130	e95	e66	e110	204	151	566	644	144	59	97
14	142	e135	e90	e60	e130	145	146	469	597	130	58	86
15	139	132	e92	e79	e120	142	149	431	503	136	58	83
16	132	125	e88	e70	e122	141	169	367	465	116	55	198
17	142	127	e82	e66	e130	134	199	336	436	148	57	96
18	156	114	e80	e76	e124	129	216	316	371	147	69	80
19	141	110	e84	e90	e120	128	231	350	313	130	77	136
20	146	114	e85	e80	e122	125	209	426	265	118	71	103
21	136	102	e72	e78	e130	123	179	444	225	530	71	82
22	125	105	e60	e64	e125	118	150	527	203	679	71	75
23	119	99	e55	e60	e120	122	158	589	178	555	69	73
24	115	101	e45	e62	e120	121	206	697	150	257	66	70
25	112	111	e46	e66	e115	124	246	801	152	169	62	66
26	112	96	e45	e58	e110	126	346	887	156	143	64	71
27	116	80	e50	e70	e130	120	294	1010	132	119	63	72
28	110	e83	e52	e60	e150	131	275	1080	116	167	58	67
29	111	e85	e58	e66	---	132	260	1080	120	153	44	65
30	115	e93	e52	e54	---	115	277	1060	116	207	47	70
31	115	---	e50	e32	---	122	---	1030	---	153	57	---
TOTAL	5716	3465	2444	1945	2857	5152	5659	17894	15501	5545	2251	2463
MEAN	184	116	78.8	62.7	102	166	189	577	517	179	72.6	82.1
MAX	622	135	105	90	150	320	346	1080	1080	679	137	198
MIN	110	80	45	32	30	115	118	281	116	104	44	49
ACFT	11340	6870	4850	3860	5670	10220	11220	35490	30750	11000	4460	4890

CAL YR 1984	TOTAL	159038	MEAN	435	MAX	3170	MIN	38	ACFT	315500
WTR YR 1985	TOTAL	70892	MEAN	194	MAX	1080	MIN	30	ACFT	140600

e Estimated.

GREEN RIVER BASIN

143

09328100 SAN RAFAEL RIVER AT SAN RAFAEL BRIDGE CAMPGROUND, NEAR CASTLE DALE, UT

LOCATION.--Lat 39°04'51", long 110°39'56", in NE1/4NE1/4SE1/4 sec.15, T.20 S., R.11 E., Emery County, Hydrologic Unit 14060009, on left bank 80 ft downstream from San Rafael River Bridge, 21 mi southeast of Castle Dale, 52 mi northwest of Green River.

DRAINAGE AREA.--1,284 mi².

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,100 ft from topographic map.

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

AVERAGE DISCHARGE.--10 years, 166 ft³/s, 120,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,630 ft³/s Sept. 10, 1980, gage height, 11.08 ft, from slope-area measurement of peak; no flow several days in 1977-78.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 29	1830	1,180	6.12	July 12	unknown	1,380	6.50
June 9	1630	1,170	6.09	July 22	unknown	*1,700	*7.14

Minimum daily, 26 ft³/s Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e377	e120	e100	e56	e26	e175	134	287	1010	e115	152	58
2	e607	e128	e97	e49	e41	e185	130	313	891	e119	125	52
3	e632	e136	e100	e43	e56	e135	154	352	800	e119	115	58
4	e340	e140	e100	e50	e50	e155	158	384	758	e117	112	58
5	e226	e139	e104	e48	e46	e195	148	419	739	e125	101	56
6	e204	e142	e100	e58	e58	e235	143	414	789	e122	94	59
7	e193	e145	e104	e62	e74	e215	139	426	889	e121	86	56
8	e184	e140	e105	e70	e82	e245	145	423	1020	e128	68	59
9	e175	e140	e104	e76	e95	e275	151	439	1090	e124	59	72
10	e171	e136	e107	e62	e98	e265	167	596	1100	e118	56	72
11	e152	e137	e110	e66	e104	e315	162	747	1040	e114	60	133
12	e156	e140	e109	e72	e100	e325	171	676	864	e250	68	415
13	e143	e140	e96	e68	e106	230	159	635	759	170	68	132
14	e152	e140	e91	e62	e135	172	152	519	661	117	66	96
15	e149	139	e94	e81	e125	150	149	460	612	109	61	89
16	e142	135	e90	e72	e127	148	161	404	559	100	61	192
17	e152	135	e84	e68	e135	144	183	366	521	95	58	126
18	e166	125	e82	e78	e129	143	208	337	464	139	71	92
19	e151	121	e86	e92	e125	139	222	357	386	120	84	155
20	e156	117	e87	e82	e127	137	217	444	336	184	82	129
21	e146	112	e74	e80	e135	134	187	456	276	377	81	95
22	e135	108	e62	e66	e130	128	163	552	242	e1170	75	79
23	e129	102	e57	e62	e125	129	163	593	218	e1110	79	73
24	e125	99	e47	e64	e125	129	186	700	184	405	75	70
25	e122	110	e48	e68	e120	132	226	815	174	221	69	67
26	e122	103	e47	e60	e115	135	385	900	179	179	71	66
27	e126	e85	e52	e72	e135	133	358	996	164	139	69	68
28	e120	e88	e54	e62	e155	133	287	1090	140	139	70	67
29	e121	e89	e60	e68	---	152	277	1120	128	249	56	61
30	e125	e98	e54	e56	---	130	281	1100	134	242	47	63
31	e125	---	e52	e50	---	139	---	1050	---	173	55	---
TOTAL	6024	3689	2557	2003	2879	5457	5766	18370	17127	7010	2394	2868
MEAN	194	123	82.5	64.6	103	176	192	593	571	226	77.2	95.6
MAX	632	145	110	92	155	325	385	1120	1100	1170	152	415
MIN	120	85	47	30	26	128	130	287	128	95	47	52
ACFT	11950	7320	5070	3970	5710	10820	11440	36440	33970	13900	4750	5690
CAL YR 1984	TOTAL	160785	MEAN	439	MAX	3200	MIN	40	ACFT	318900		
WTR YR 1985	TOTAL	76144	MEAN	209	MAX	1170	MIN	26	ACFT	151000		

e Estimated.

GREEN RIVER BASIN

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT

LOCATION.--Lat 38°51'30", long 110°22'10", in SE1/4SE1/4NW1/4 sec.34, T.22 S., R.14 E., Emery County, Hydrologic Unit 14060009, on left bank 300 ft upstream from bridge on State Highway 24, 14.0 mi southwest of Green River, and 34.3 mi upstream from mouth.

DRAINAGE AREA.--1,628 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1909 to September 1918, September 1919 to July 1920 (gage heights only), October 1945 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,190 ft from topographic map. May 5, 1909 to Sept. 10, 1918, staff gage, and Sept. 10, 1919 to July 10, 1920, tape-weight gage. Nov. 29, 1945 to July 7, 1976, water-stage recorder at various sites and datums about 1 mi upstream.

REMARKS.--Records poor. Diversions above station for irrigation of about 42,000 acres. Several small transmountain diversions from tributaries for irrigation in Sevier Lake basin, and some storage since Nov. 3, 1965, in Joes Valley Reservoir (see station 09323900).

AVERAGE DISCHARGE.--49 years (1909-18, 1945-85), 160 ft³/s, 115,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,000 ft³/s Sept. 2, 1909, gage height, 12.7 ft, site and datum then in use, from rating curve extended above 3,100 ft³/s; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 2,210 ft³/s July 23, gage height, 10.40 ft, peaks above base of 1,300 ft³/s not determined; minimum daily, 26 ft³/s Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e300	e137	e110	e60	e33	e160	e151	e298	1120	146	211	51
2	e500	e130	e115	e66	e26	e169	e148	e325	1050	133	179	61
3	e720	e144	e110	e54	e40	e185	e140	e365	e940	127	143	56
4	e950	e149	e112	e50	e57	e137	e160	e410	e850	128	129	60
5	e400	e148	e112	e55	e53	e165	e170	e445	e800	127	122	62
6	e240	e148	e118	e58	e48	e200	e160	e470	e770	127	113	61
7	e200	e147	e113	e64	e57	e245	e153	e440	852	132	106	61
8	e180	e150	e117	e72	e70	e200	e168	e450	994	131	99	62
9	e170	e145	e119	e77	e90	e235	e174	e460	1100	136	87	61
10	e155	e144	e118	e83	e95	e250	e181	e570	1130	139	77	71
11	e140	e147	e122	e70	e98	e270	e188	e660	1110	123	76	166
12	e145	e145	e128	e72	e100	e310	e180	e800	957	124	74	443
13	e147	e148	e115	e77	e103	e375	e183	e700	e820	345	79	295
14	e140	e149	e108	e72	e120	e250	e170	e650	e740	206	78	171
15	e150	e150	e102	e69	e139	e190	e168	e560	e680	155	76	136
16	e145	e145	e107	e85	e135	e160	e160	e510	e620	150	75	127
17	e140	e140	e102	e76	e137	e157	e188	e450	e580	146	74	201
18	e170	e145	e98	e82	e140	e151	e221	e415	e500	139	71	173
19	e190	e135	e98	e90	e132	e149	e235	e400	e420	176	75	192
20	e160	e129	e99	e93	e137	e144	e250	e465	e370	190	91	185
21	e155	e122	e102	e87	e140	e141	e228	e600	e320	168	86	140
22	e148	e119	e84	e82	e137	e139	e202	e720	e280	832	83	97
23	e138	e114	e73	e79	e133	e135	e175	e850	e250	e1520	81	79
24	e135	e115	e60	e68	e132	e137	e208	e880	e210	e1180	76	68
25	e130	e116	e54	e70	e130	e138	e225	e920	e175	381	74	67
26	e130	e125	e57	e73	e129	e145	e320	e1000	166	268	72	65
27	e129	e105	e60	e70	e115	e148	e445	e1050	164	227	70	63
28	e135	e94	e64	e72	e140	e147	e375	e1130	154	197	72	64
29	e128	e99	e66	e67	---	e145	e310	e1130	139	261	67	64
30	e133	e105	e69	e69	---	e160	e295	e1200	129	276	53	62
31	e135	---	e62	e53	---	e142	---	e1140	---	274	49	---
TOTAL	6838	3989	2974	2215	2866	5679	6331	20463	18390	8664	2818	3464
MEAN	221	133	95.9	71.5	102	183	211	660	613	279	90.9	115
MAX	950	150	128	93	140	375	445	1200	1130	1520	211	443
MIN	128	94	54	50	26	135	140	298	129	123	49	51
ACFT	13560	7910	5900	4390	5680	11260	12560	40590	36480	17190	5590	6870
CAL YR 1984	TOTAL	177388	MEAN	485	MAX	3290	MIN	41	ACFT	351800		
WTR YR 1985	TOTAL	84691	MEAN	232	MAX	1520	MIN	26	ACFT	168000		

e Estimated.

GREEN RIVER BASIN

145

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1946 to September 1949, October 1950 to current year.

SPECIFIC CONDUCTANCE: July to September 1949, November 1950 to September 1962, October 1964 to September 1979, daily, October 1979 to September 1980, March 1982 to current year, bi-weekly.

WATER TEMPERATURES: July to September 1949, October 1950 to September 1962, October 1964 to September 1978, daily.

SUSPENDED-SEDIMENT DISCHARGE: March 1948 to September 1949, October 1950 to September 1959, daily, October 1975 to current year, periodically.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily (water years 1949, 1951-70, 1974-76), 7,230 microsiemens July 15, 1954, and June 29, 1977; minimum daily (water years 1949, 1951-76), 689 microsiemens June 29, 1957.

WATER TEMPERATURES: Maximum (water years 1949, 1951-61, 1966-76), 35.0°C July 11, 1954; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 3,150 microsiemens Sept. 27; minimum, 760 microsiemens June 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)
OCT										
12...	1330	138	2440	8.3	17.0	15.0	8.5	654	940	19
NOV										
26...	1345	128	2350	8.3	6.0	3.0	11.4	652	900	18
MAR										
20...	1430	138	2180	8.3	18.5	12.5	9.3	653	770	15
APR										
25...	1345	219	1560	8.3	8.5	11.5	8.9	645	580	12
MAY										
23...	1430	904	1250	8.3	30.5	18.5	8.4	658	460	9.1
JUN										
25...	1400	164	1570	8.4	10.0	19.5	7.5	655	580	11
JUL										
24...	1330	635	2260	8.0	30.5	21.5	7.0	655	900	18
AUG										
30...	1330	51	2550	8.2	37.0	26.0	7.4	658	960	19
SEP										
04...	1230	48	3010	8.3	27.0	23.0	7.6	658	1100	21

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	CAR- BONATE IT-FLD (MG/L AS CO3)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L - CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT										
12...	180	120	260	37	3.8	6.1	--	--	--	1200
NOV										
26...	180	110	260	38	3.9	5.0	350	--	285	1100
MAR										
20...	150	97	250	41	4.0	4.8	390	--	317	950
APR										
25...	120	69	160	37	3.0	3.6	310	--	247	670
MAY										
23...	97	52	120	36	2.5	2.8	470	--	375	470
JUN										
25...	110	73	160	38	3.0	3.8	280	2.0	232	640
JUL										
24...	260	62	240	36	3.6	10	200	--	160	1100
AUG										
30...	170	130	260	37	3.7	7.8	270	--	215	1300
SEP										
04...	190	140	350	42	4.8	8.9	280	--	225	1500

GREEN RIVER BASIN

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	CHLORIDE, DIS- SOLVED (MG/L AS CL)	FLUORIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 12...	35	0.3	8.1	2070	1810	2.5	674	0.4	0.42	0.03
NOV 26...	34	0.3	6.4	1970	1700	2.3	586	0.6	0.64	0.04
MAR 20...	37	<0.1	11	1780	1690	2.3	631	0.3	0.34	0.10
APR 25...	26	0.2	5.4	1260	1200	1.6	712	0.5	0.44	0.07
MAY 23...	17	0.3	6.2	909	995	1.4	2430	0.3	0.28	0.07
JUN 25...	20	0.2	6.2	1230	1150	1.6	510	<0.1	<0.1	0.05
JUL 24...	14	0.4	--	1930	1780	2.4	3060	1.0	0.82	0.35
AUG 30...	39	0.3	5.8	2170	2040	2.8	278	<0.1	<0.1	0.06
SEP 04...	46	0.3	5.5	2570	2380	3.2	308	<0.1	<0.1	0.08

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT 12...	0.04	0.05	0.77	0.8	1.2	5.3	0.40	--	<0.01	0.03
NOV 26...	0.06	0.08	0.36	0.4	1.0	4.4	0.12	--	<0.01	0.03
MAR 20...	0.05	0.06	1.4	1.50	1.8	8.0	0.59	--	<0.01	0.03
APR 25...	0.05	0.06	0.73	0.8	1.3	5.8	0.29	--	<0.01	0.03
MAY 23...	0.04	0.05	1.0	1.10	1.4	6.2	0.77	2.4	<0.01	0.03
JUN 25...	0.04	0.05	0.55	0.6	0.7	3.1	0.15	0.46	<0.01	0.03
JUL 24...	0.12	0.15	12	12.0	13	58	<0.01	--	<0.01	0.03
AUG 30...	0.07	0.09	0.64	0.7	0.8	3.5	<0.01	--	0.01	0.03
SEP 04...	<0.01	0.01	0.72	0.8	0.9	4.0	<0.01	--	0.01	0.03

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
NOV 26...	1345	3.8	0.5
MAR 20...	1430	3.4	1.7
MAY 23...	1430	5.2	>4.0
SEP 04...	1230	6.1	0.3

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
MAR 20...	1430	15000	3	<10.00	2	20	10	10000
MAY 23...	1430	41000	<1	<10.00	<1	40	40	40000

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	LEAD, TOTAL RECOVER- ABLE (UG/L AS PB)	LITHIUM TOTAL RECOVER- ABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOVER- ABLE (UG/L AS MN)	MOLYB- DENUM, TOTAL RECOVER- ABLE (UG/L AS MO)	NICKEL, TOTAL RECOVER- ABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOVER- ABLE (UG/L AS ZN)
MAR 20...	2.00	150	180	2	20	3	50
MAY 23...	20	120	2000	<1	100	1	170

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 12...	1330	250
NOV 26...	1345	180
MAR 20...	1430	170
APR 25...	1345	110
MAY 23...	1430	100
JUN 25...	1400	140
JUL 24...	1330	100
AUG 30...	1330	270
SEP 04...	1230	330

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---		---	---	---	---	---	---	---	---
2	---	---	---		---	---	---	---	---	---	---	2800
3	---	---	---		---	---	---	---	910	---	---	---
4	---	---	---		---	---	---	---	---	---	---	---
5	---	2850	---		---	2100	---	1140	---	---	---	---
6	---	---	2130		---	---	1350	---	---	2340	---	---
7	---	---	---		---	---	---	---	---	---	---	3040
8	2370	---	---		---	---	---	990	---	---	---	---
9	---	---	---		---	---	---	---	760	2250	---	---
10	---	---	---		---	---	---	---	---	---	---	---
11	---	---	---		2160	2800	---	---	---	---	---	---
12	---	2360	2440		---	---	---	---	---	---	---	---
13	---	---	---		---	---	1350	---	---	---	---	---
14	---	---	---		---	---	---	1190	---	---	---	---
15	---	---	---		---	---	---	---	---	---	---	---
16	---	---	---		---	---	---	---	940	---	2770	---
17	2730	2520	---		---	---	---	---	---	---	---	---
18	---	---	---		---	---	---	---	---	---	---	---
19	---	---	2410		---	---	---	1350	---	2250	---	---
20	---	---	---		2160	---	1380	---	---	---	2810	2500
21	---	---	---		---	---	---	---	---	---	---	---
22	---	---	---		---	1750	---	---	---	---	---	---
23	2760	2050	---		---	---	---	1420	---	---	---	---
24	---	---	---		---	---	---	---	---	---	---	---
25	---	---	---		---	---	---	---	---	---	---	---
26	---	---	---		---	---	---	---	---	---	---	---
27	---	---	---		2750	---	---	---	---	---	2580	3150
28	---	---	---		---	---	---	860	2050	---	---	---
29	---	---	---		---	1720	---	---	---	---	---	---
30	---	1850	---		---	---	---	---	---	---	---	---
31	2940	---	---		---	---	---	---	---	---	---	---

GREEN RIVER BASIN

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDEd (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEd (T/DAY)
OCT					
12...	1330	138	15.0	609	227
NOV					
26...	1345	128	3.0	118	41
MAR					
20...	1430	138	12.5	774	288
APR					
25...	1345	219	11.5	962	569
MAY					
23...	1430	904	18.5	3520	8590
JUN					
25...	1400	164	19.5	459	203
JUL					
24...	1330	635	21.5	18900	32400
AUG					
30...	1330	51	26.0	32	4.4
SEP					
04...	1230	48	23.0	111	14

DIRTY DEVIL RIVER BASIN

149

09329050 SEVEN MILE CREEK NEAR FISH LAKE, UT

LOCATION.--Lat 38°37'40", long 111°38'50", in SE1/4SW1/4SW1/4 sec.13, T.25 S., R.2 E., Sevier County, Hydrologic Unit 14070003, on left bank 0.4 mi upstream from bridge on State Highway 25, about 0.7 mi upstream from Johnson Valley Reservoir, and 3.5 mi northeast of north end of Fish Lake.

DRAINAGE AREA.--24.0 mi².

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 9,200 ft from topographic map.

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

AVERAGE DISCHARGE.--21 years, 15.9 ft³/s, 11,520 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 369 ft³/s June 1, 1984, gage height, 4.03 ft; minimum, 1.9 ft³/s Nov. 16, 17, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 86 ft³/s May 4, peaks above base of 80 ft³/s not determined; minimum daily, 9.1 ft³/s Mar. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	e13	e13	12	e9.4	9.6	e10	52	44	19	15	13
2	22	e13	e12	13	e9.8	9.5	e11	62	42	19	15	12
3	24	e13	e12	13	e9.9	9.1	e12	72	42	18	14	12
4	20	e13	e12	13	e9.8	9.8	e13	86	40	17	14	14
5	17	e13	13	12	10	10	e12	80	39	17	16	13
6	17	e13	14	12	9.9	10	e13	73	39	17	15	12
7	16	e13	14	12	9.9	9.9	e15	81	38	19	13	12
8	16	e13	14	13	9.9	9.9	e16	82	38	18	13	12
9	16	e13	14	12	9.9	9.9	e17	82	37	19	13	12
10	16	e13	14	e11	9.7	9.8	e19	72	36	20	14	12
11	15	e13	14	e10	9.6	9.8	e22	51	34	21	13	14
12	e17	e13	14	e10	9.9	e9.4	e26	43	32	20	13	13
13	e16	e13	13	e11	9.9	e9.2	27	40	31	19	14	13
14	e17	e12	e13	e11	9.9	e9.5	32	40	30	17	14	12
15	e18	e12	e13	e11	9.9	e10	40	49	28	17	13	12
16	e16	e12	e13	e11	9.9	e10	40	57	27	18	13	12
17	e15	e12	e13	e11	9.8	e10	38	56	26	21	14	12
18	e15	e12	e13	e11	9.7	e10	35	59	25	24	14	14
19	e14	e12	e13	e11	10	e10	31	65	23	30	13	16
20	e14	e12	e12	e11	9.9	e10	29	65	23	24	13	13
21	e14	e12	e12	e11	10	e10	25	56	23	26	13	13
22	e13	e12	e12	e11	9.4	e11	22	55	22	23	13	13
23	e13	e12	13	11	9.2	e11	22	56	21	28	13	13
24	e13	e12	13	11	10	e11	23	57	25	25	13	13
25	e13	e12	13	11	9.9	e12	23	61	30	18	13	13
26	e13	e12	13	11	9.5	e12	23	67	21	17	13	13
27	e13	e12	13	11	9.8	e11	23	64	22	17	13	13
28	e13	e12	15	11	9.6	e11	25	56	20	18	13	13
29	e13	e13	13	11	---	e11	32	51	20	18	13	13
30	e13	e13	13	9.9	---	e10	38	48	19	17	13	13
31	e13	---	13	10	---	e10	---	47	---	16	13	---
TOTAL	486	375	406	349.9	274.1	315.4	714	1885	903	617	419	385
MEAN	15.7	12.5	13.1	11.3	9.79	10.2	23.8	60.8	30.1	19.9	13.5	12.8
MAX	24	13	15	13	10	12	40	86	44	30	16	16
MIN	13	12	12	9.9	9.2	9.1	10	40	19	16	13	12
ACFT	964	744	805	694	544	626	1420	3740	1790	1220	831	764
CAL YR 1984	TOTAL	12051.7	MEAN	32.9	MAX	227	MIN	8.2	ACFT	23900		
WTR YR 1985	TOTAL	7129.4	MEAN	19.5	MAX	86	MIN	9.1	ACFT	14140		

e Estimated.

DIRTY DEVIL RIVER BASIN

09330000 FREMONT RIVER NEAR BICKNELL, UT

LOCATION.--Lat 38°18'25", long 111°31'03", in SW1/4NE1/4NW1/4 sec.7, T.29 S., R.4 E., Wayne County, Hydrologic Unit 14070003, on left bank at upstream side of county road bridge, 2.9 mi southeast of Bicknell along Highway U-24.

DRAINAGE AREA.--751 mi².

PERIOD OF RECORD.--May 1909 to December 1912, published as "near Thurber", October 1937 to September 1958 (1944-46, fragmentary), October 1976 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,920 ft from topographic map. May 1909 to December 1912, staff gage near present site at different datum. October 1937 to June 28, 1949, staff gages on two canals and river station about 0.25 mi downstream at different datums. June 28, 1949 to Apr. 29, 1958, water-stage recorders replaced staff gages on river and canal site using same datum. Apr. 29 to Sept. 30, 1958, staff gage on river at site 600 ft farther downstream from water-stage recorder at datum 1.67 ft lower.

REMARKS.--Records fair. Diversions for irrigation of about 10,600 acres above station. Flow regulated by Fish Lake and Johnson, Forsythe, and Mill Meadow Reservoirs.

AVERAGE DISCHARGE.--30 years (1909-12, 1937-43, 1946-58, 1976-85), 89.2 ft³/s, 64,630 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,200 ft³/s Apr. 5, 1942, gage height, 5.8 ft, site and datum in use (from floodmarks), from rating curve extended above 700 ft³/s; minimum observed, 18 ft³/s June 2, 4, 13-15, 17, 18, 1912.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 844 ft³/s Apr. 10, gage height, 3.54 ft; minimum daily, 43 ft³/s June 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	146	124	e115	e88	163	86	238	75	82	83	78
2	133	144	e117	e110	e117	172	111	257	76	82	85	77
3	138	153	e122	e118	102	153	101	275	78	82	82	85
4	134	147	e126	e121	e97	e151	81	270	68	87	78	78
5	128	151	120	e125	e85	e149	85	264	59	89	75	72
6	137	157	e120	135	93	e155	232	242	55	92	76	76
7	151	152	127	142	e94	160	438	226	48	96	77	79
8	141	157	131	145	100	165	604	231	43	88	75	81
9	137	155	137	138	e109	172	691	200	54	70	76	80
10	147	142	141	146	e105	190	761	213	71	63	85	e80
11	154	165	142	130	e109	249	661	227	63	78	79	e78
12	140	163	144	e120	119	226	e643	200	63	85	75	e78
13	92	157	139	e119	134	173	e622	192	68	86	84	e77
14	85	141	132	e125	139	171	e520	189	67	90	92	e76
15	116	136	e130	e130	152	194	e445	189	66	87	91	e76
16	143	139	139	e133	172	195	e448	171	66	83	85	76
17	158	142	e137	e129	173	197	e365	147	67	97	77	78
18	159	135	e140	139	173	193	e380	139	69	e135	75	81
19	164	132	153	143	164	197	e370	123	70	e191	70	82
20	174	126	152	137	163	185	e270	107	68	e216	68	78
21	174	125	e130	e132	157	182	e255	113	71	e103	73	78
22	164	131	e122	e127	153	160	e257	113	78	e87	71	73
23	162	135	e130	e127	150	173	e258	103	78	e85	71	70
24	161	133	e135	139	146	167	e240	92	85	e83	65	73
25	160	131	e135	134	154	165	e192	93	102	e79	67	67
26	161	e104	e135	143	156	172	e195	82	110	66	72	65
27	158	e110	137	139	163	171	e197	79	104	63	77	68
28	153	121	141	159	167	107	e185	73	85	72	88	65
29	151	128	139	138	---	85	e179	67	75	80	82	57
30	151	128	129	e125	---	69	185	56	80	83	86	56
31	152	---	e127	e98	---	76	---	67	---	79	72	---
TOTAL	4496	4186	4133	4061	3734	5137	10057	5038	2162	2859	2412	2238
MEAN	145	140	133	131	133	166	335	163	72.1	92.2	77.8	74.6
MAX	174	165	153	159	173	249	761	275	110	216	92	85
MIN	85	104	117	98	85	69	81	56	43	63	65	56
ACFT	8920	8300	8200	8050	7410	10190	19950	9990	4290	5670	4780	4440

CAL YR 1984 TOTAL 49391 MEAN 135 MAX 307 MIN 75 ACFT 97970
WTR YR 1985 TOTAL 50513 MEAN 138 MAX 761 MIN 43 ACFT 100200

e Estimated.

DIRTY DEVIL RIVER BASIN

151

09330230 FREMONT RIVER NEAR CAINEVILLE, UT

LOCATION.--Lat 38°16'40", long 111°04'00", in NE1/4NE1/4NE1/4 sec.20, T.29 S., R.8 E., Wayne County, Hydrologic Unit 14070003, on right bank 2.0 mi downstream from Pleasant Creek, 4.5 mi southwest of Caineville, and 9.8 mi east of Fruita, Utah.

DRAINAGE AREA.--1,208 mi².

PERIOD OF RECORD.--March 1967 to current year.

GAGE.--Water-stage recorder and bubble gage. Altitude of gage is 4,750 ft from topographic map.

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

AVERAGE DISCHARGE.--18 years, 75.0 ft³/s, 54,340 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,800 ft³/s July 24, 1984, gage height, 10.20 ft, from rating curve extended above 4,000 ft³/s on basis of slope-conveyance study; minimum observed, 10 ft³/s June 9, 1981.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 11	0230	755	3.17	July 22	1930	854	3.37
July 19	2100	*4,700	*7.20				

Minimum daily discharge, 33 ft³/s June 11, 12, 14, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	137	e128	e123	143	147	179	174	68	52	56	70
2	123	133	e120	109	147	155	201	191	67	60	57	65
3	182	144	e123	122	153	148	216	196	68	55	54	54
4	114	143	e127	125	147	83	210	205	63	e50	53	58
5	99	143	e130	127	108	193	202	202	56	e39	52	51
6	98	147	e123	141	122	173	239	193	51	e37	45	46
7	103	145	e128	147	124	160	374	161	51	e37	44	49
8	103	144	e141	140	144	161	506	162	47	e37	42	54
9	96	148	e142	141	134	160	628	141	42	e38	41	51
10	100	140	e140	137	127	166	674	132	38	e37	40	49
11	105	140	e138	132	119	181	665	152	33	e38	44	58
12	109	150	e136	130	129	227	537	141	33	e43	40	79
13	90	149	133	104	136	174	537	134	34	e50	38	65
14	74	143	133	113	146	158	429	124	33	e39	40	61
15	74	133	134	125	149	164	353	124	34	e47	43	61
16	99	130	134	126	159	176	312	120	33	e41	43	58
17	119	134	e125	149	167	176	221	118	34	e1000	40	54
18	123	132	e120	172	166	180	249	114	34	e300	42	57
19	130	129	e152	156	156	184	274	109	35	e1200	41	78
20	153	127	e150	157	162	178	228	99	35	e500	37	64
21	163	126	e113	158	153	169	230	94	36	e615	36	68
22	148	128	e103	153	145	160	228	94	36	187	36	65
23	147	131	e119	145	139	167	234	87	36	167	34	65
24	142	132	e128	146	138	172	206	83	38	131	42	67
25	148	132	e133	150	144	179	141	86	48	105	40	67
26	146	88	e130	152	142	190	189	92	55	74	41	67
27	150	e87	e137	147	146	204	199	96	60	60	47	67
28	143	e120	e143	133	151	204	183	91	60	58	165	70
29	143	e130	e141	146	---	166	172	78	51	68	88	70
30	135	e131	e135	131	---	159	163	65	42	83	77	73
31	138	---	e132	79	---	168	---	70	---	68	74	---
TOTAL	3789	3996	4071	4216	3996	5282	9179	3928	1351	5316	1572	1861
MEAN	122	133	131	136	143	170	306	127	45.0	171	50.7	62.0
MAX	182	150	152	172	167	227	674	205	68	1200	165	79
MIN	74	87	103	79	108	83	141	65	33	37	34	46
ACFT	7520	7930	8070	8360	7930	10480	18210	7790	2680	10540	3120	3690

CAL YR 1984	TOTAL	45295	MEAN	124	MAX	591	MIN	44	ACFT	89840
WTR YR 1985	TOTAL	48557	MEAN	133	MAX	1200	MIN	33	ACFT	96310

e Estimated.

DIRTY DEVIL RIVER BASIN

09330410 BULL CREEK NEAR HANKSVILLE, UT

LOCATION.--Lat 38°07'19", long 110°45'32", in SE1/4NE1/4SW1/4 sec.12, T.31 S., R.10 E., Garfield County, Hydrologic Unit 14070003, on left bank 1 mi downstream from BLM recreation area "Lonesome Beaver Campground" and 21 mi south of Hanksville.

DRAINAGE AREA.--7.53 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,600 ft from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 97 ft³/s, revised, July 25, 1984, gage height, 2.08 ft; minimum daily, 0.03 ft³/s March 28, 1985.

REVISIONS.--The maximum discharge for the water year 1984 has been revised to about 97 ft³/s, July 25, 1984, gage height, 2.08 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 60 ft³/s July 19, gage height, 1.08 ft; minimum daily discharge, 0.03 ft³/s Mar. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	.61	.47	.37	.31	e.22	.69	5.3	11	6.8	1.8	.90
2	.97	.58	.48	.36	.30	.30	.83	5.8	10	6.5	1.7	1.0
3	.91	.61	.50	.37	.33	e.19	1.1	13	10	6.2	1.8	1.0
4	.97	.63	.45	.40	.35	e.13	1.2	21	10	5.9	1.7	1.2
5	.77	.61	.42	.39	.33	.34	1.4	23	10	5.7	1.5	1.2
6	.77	.64	.43	.36	.32	.37	1.6	15	12	5.6	1.4	1.1
7	.77	.64	.47	.35	.32	.39	1.8	13	12	5.4	1.3	1.2
8	.77	.61	.43	.33	.29	.37	1.9	19	13	5.2	1.2	1.0
9	.77	.56	.38	.31	.30	.36	2.3	14	14	5.1	1.3	.87
10	.77	.37	.39	.28	.25	.74	2.4	12	14	4.8	1.4	.88
11	.77	.58	.39	.28	.25	.58	2.8	11	13	4.9	1.5	1.7
12	.94	.64	.40	.28	.26	.53	3.2	9.8	12	4.9	1.5	1.3
13	.70	.64	.42	.29	.26	.52	3.7	9.0	12	e4.3	1.4	1.2
14	.72	.60	.39	.30	.29	.50	5.4	8.8	12	e4.1	1.5	.94
15	.63	.55	.42	.30	.29	.58	8.7	8.2	12	e3.9	1.5	.80
16	.55	.59	.44	.28	.29	.50	6.1	11	12	e3.7	1.4	.72
17	.62	.58	.43	.33	.27	.45	2.5	11	11	e3.3	1.4	.80
18	.59	.47	.46	.36	.28	.47	2.3	11	11	e3.2	1.5	1.5
19	.65	.39	.44	.37	.28	.55	2.0	10	11	e7.0	1.3	1.1
20	.64	.35	.43	.35	.29	.54	1.7	12	9.9	3.0	1.3	.67
21	.64	.39	.41	.35	.28	.52	1.2	12	9.4	3.1	1.2	.92
22	.60	.48	.42	.36	.25	e.31	1.0	12	9.1	2.8	1.2	1.0
23	.57	.48	.45	.34	.24	.48	.97	13	8.8	2.8	1.1	1.2
24	.51	.45	.44	.37	e.17	.61	1.4	14	8.4	2.5	1.0	1.1
25	.60	.43	.45	.38	.29	.74	1.6	14	8.1	2.4	.98	.85
26	.63	.35	.44	.39	e.22	.67	1.6	15	7.7	2.6	1.0	.56
27	.64	.36	.48	.40	e.19	e.39	1.0	15	7.4	2.8	1.1	.84
28	.61	.54	.45	.38	.25	e.03	1.3	14	7.3	2.6	1.1	.84
29	.64	.53	.43	.41	---	e.05	2.0	11	7.0	2.4	.95	.90
30	.64	.49	.39	.38	---	e.07	3.6	11	6.9	2.2	.93	.78
31	.64	---	.39	.31	---	.53	---	11	---	2.1	.92	---
TOTAL	22.30	15.75	13.39	10.73	7.75	13.03	69.29	384.9	312.0	127.8	40.88	30.07
MEAN	.72	.52	.43	.35	.28	.42	2.31	12.4	10.4	4.12	1.32	1.00
MAX	1.3	.64	.50	.41	.35	.74	8.7	23	14	7.0	1.8	1.7
MIN	.51	.35	.38	.28	.17	.03	.69	5.3	6.9	2.1	.92	.56
ACFT	44	31	27	21	15	26	137	763	619	253	81	60

CAL YR 1984 TOTAL 998.39 MEAN 2.73 MAX 22 MIN .19 ACFT 1980
WTR YR 1985 TOTAL 1047.89 MEAN 2.87 MAX 23 MIN .03 ACFT 2080

e Estimated.

DIRTY DEVIL RIVER BASIN

153

09330410 BULL CREEK NEAR HANKSVILLE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1983 to current year.

SEDIMENT DATA: June 1983 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CACO3)
OCT									
09...	1600	0.78	350	7.8	12.0	8.0	8.7	567	220
NOV									
27...	1615	0.53	340	8.0	-4.0	1.0	8.4	569	240
DEC									
13...	1130	0.43	500	7.9	-5.0	1.5	11.0	605	250
JAN									
15...	1300	0.28	700	7.7	2.0	5.0	9.9	615	360
FEB									
15...	0845	0.31	690	8.2	5.5	2.0	10.7	621	330
MAR									
21...	1015	0.48	490	8.0	9.0	2.5	10.6	611	260
APR									
11...	0800	2.2	470	8.0	10.0	2.5	10.0	570	260
MAY									
21...	1530	13	320	8.0	10.0	7.0	9.3	600	160
JUN									
11...	1715	13	275	8.0	23.0	9.0	8.8	570	140
JUL									
23...	0915	2.8	450	8.3	10.5	7.0	9.0	570	230
AUG									
20...	1730	0.98	435	8.2	26.0	13.5	7.6	570	220
SEP									
18...	1900	1.5	590	8.3	9.0	7.5	8.6	570	290

DATE	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)
OCT									
09...	219	56	68	12	7.5	7	0.2	0.7	163
NOV									
27...	245	63	75	14	9.2	8	0.3	0.6	182
DEC									
13...	247	67	76	14	9.3	8	0.3	0.6	180
JAN									
15...	361	180	110	21	34	17	0.8	0.7	185
FEB									
15...	328	140	100	19	27	15	0.7	0.8	189
MAR									
21...	259	110	79	15	9.0	7	0.3	0.5	152
APR									
11...	257	63	80	14	8.0	6	0.2	0.9	194
MAY									
21...	157	47	50	7.9	5.6	7	0.2	0.7	110
JUN									
11...	139	41	45	6.4	4.9	7	0.2	0.6	98
JUL									
23...	226	79	69	13	7.8	7	0.2	0.7	147
AUG									
20...	224	68	70	12	8.1	7	0.2	0.7	156
SEP									
18...	287	150	82	20	17	11	0.5	1.2	140

DIRTY DEVIL RIVER BASIN

09330410 BULL CREEK NEAR HANKSVILLE, UT--Continued

DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 09...	71	2.7	0.2	12	270	0.37	0.57	<0.10	0.01
NOV 27...	79	3.5	0.2	13	300	0.41	0.43	<0.10	<0.01
DEC 13...	81	3.6	0.2	13	310	0.42	0.35	<0.10	0.01
JAN 15...	180	6.2	0.2	15	480	0.65	0.36	<0.10	<0.01
FEB 15...	160	5.7	0.2	14	440	0.6	0.37	<0.10	<0.01
MAR 21...	94	3.7	0.1	13	310	0.42	0.4	<0.10	<0.01
APR 11...	96	2.8	0.2	11	330	0.45	2.0	<0.16	<0.04
MAY 21...	50	2.0	0.1	11	190	0.26	6.9	0.10	<0.01
JUN 11...	32	1.6	0.2	11	160	0.22	5.7	0.10	<0.01
JUL 23...	84	2.8	0.2	12	280	0.38	2.1	<0.10	0.01
AUG 20...	66	3.3	0.2	13	270	0.36	0.71	<0.10	0.01
SEP 18...	160	3.8	0.2	14	380	0.52	1.6	<0.10	<0.01

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 09...	1600	30
NOV 27...	1615	40
DEC 13...	1130	50
JAN 15...	1300	50
FEB 15...	0845	40
MAR 21...	1015	30
APR 11...	0800	40
MAY 21...	1530	20
JUN 11...	1715	10
JUL 23...	0915	20
AUG 20...	1730	40
SEP 18...	1900	40

DIRTY DEVIL RIVER BASIN

155

09330410 BULL CREEK NEAR HANKSVILLE, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .125 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .250 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .500 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN 1.00 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN 2.00 MM
OCT 09...	1600	0.78	8.0	74	0.16	--	--	--	--	--	--
NOV 27...	1615	0.53	1.0	67	0.1	--	--	--	--	--	--
DEC 13...	1130	0.43	1.5	12	0.01	--	--	--	--	--	--
JAN 15...	1300	0.28	5.0	4	0.00	--	--	--	--	--	--
FEB 15...	0845	0.31	2.0	18	0.02	--	--	--	--	--	--
MAR 21...	1015	0.48	2.5	14	0.02	--	--	--	--	--	--
APR 11...	0800	2.2	2.5	392	2.3	--	--	--	--	--	--
MAY 21...	1530	13	7.0	146	5.2	--	--	--	--	--	--
JUN 11...	1715	13	9.0	104	3.7	35	46	52	56	60	62
JUL 23...	0915	2.8	7.0	119	0.89	--	--	--	--	--	--
AUG 20...	1730	0.98	13.5	23	0.06	86	96	100	--	--	--

DIRTY DEVIL RIVER BASIN

09330500 MUDDY CREEK NEAR EMERY, UT

LOCATION.--Lat 38°58'55", long 111°14'55", in NE1/4NW1/4NE1/4 sec.21, T.21 S., R.6 E., Emery County, Hydrologic Unit 14070002, on left bank 100 ft upstream from Emery Canal and 4.1 mi north of Emery.

DRAINAGE AREA.--105 mi².

PERIOD OF RECORD.--April to July 1909, July 1910 to July 1914, June 1949 to current year.

REVISED RECORDS.--WSP 1633: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft from topographic map. Apr. 29 to July 31, 1909, reference point. July 23, 1910 to July 16, 1914, staff gages, at sites about 1 mi upstream at different datums. June 29, 1949 to May 1, 1957, water-stage recorder at site 100 ft upstream at datum 2.89 ft higher prior to Mar. 20, 1953, and at datum 1.89 ft higher thereafter.

REMARKS.--Records fair except for estimated daily discharges, which are poor. One small diversion for irrigation and two storage reservoirs (total capacity 700 acre-ft) above station.

AVERAGE DISCHARGE.--39 years (1910-13, 1949-85), 40.7 ft³/s, 29,490 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,340 ft³/s May 10, 1952, gage height, 11.14 ft, present datum from rating curve extended above 400 ft³/s on basis of slope-area measurement of peak flow; no flow Apr. 13-16, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	0130	*315	*3.70				

Minimum daily, 7.0 ft³/s Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	e48	e29	e20	e7.0	e19	27	137	216	100	38	51
2	125	e46	e28	e16	e7.5	e20	52	150	212	97	37	52
3	e105	e45	e27	e13	e9.0	e16	98	156	211	94	37	51
4	e72	e44	e28	e14	e8.5	e14	e90	159	212	92	39	53
5	e62	e43	e30	e14	e8.0	e15	e100	162	213	89	38	51
6	e56	e45	e27	e15	e9.0	e17	e105	161	215	87	38	52
7	e54	e46	e28	e17	e9.5	e17	e100	159	218	84	37	54
8	e56	e44	e23	e18	e10	e19	e96	158	221	82	36	54
9	e56	e38	e22	e17	e12	e21	e100	161	222	82	36	53
10	e52	e36	e23	e14	e11	e21	e115	167	224	81	36	54
11	e54	e34	e25	e15	e11	e22	119	157	223	80	35	63
12	e56	e34	e25	e16	e12	20	122	159	209	78	34	57
13	e54	e32	e24	e13	e15	20	123	144	187	78	34	54
14	e56	e32	e23	e15	e15	21	133	138	165	75	34	53
15	e56	e31	e22	e16	e15	21	e140	136	144	73	33	53
16	e58	e30	e23	e15	e16	21	e161	139	133	72	34	51
17	e105	28	e18	e14	e18	23	e150	144	130	75	34	51
18	e84	27	e20	e14	e17	21	140	152	128	76	35	58
19	e58	e32	e21	e17	e16	23	131	163	124	74	36	53
20	e54	e31	e23	e18	e17	25	123	175	121	76	40	39
21	e50	e32	e20	e17	e19	25	114	190	117	90	41	38
22	e50	e32	e17	e13	e18	23	110	196	114	90	41	38
23	e52	e30	e19	e12	e18	22	107	202	111	72	41	36
24	e52	e29	e21	e13	e17	30	106	213	113	65	41	36
25	e50	e26	e18	e14	e18	35	104	214	115	62	41	36
26	e49	e26	e17	e13	e16	30	104	215	110	60	42	33
27	e50	e29	e20	e14	e17	25	112	216	105	60	33	33
28	e50	e31	e22	e13	e18	22	116	219	101	61	52	32
29	e48	e32	e20	e14	---	22	124	220	104	62	52	31
30	e47	e31	e18	e10	---	26	130	217	101	50	51	30
31	e46	---	e19	e9.0	---	21	---	218	---	40	51	---
TOTAL	1889	1044	700	453.0	384.5	677	3352	5397	4819	2357	1219	1400
MEAN	60.9	34.8	22.6	14.6	13.7	21.8	112	174	161	76.0	39.3	46.7
MAX	125	48	30	20	19	35	161	220	224	100	52	63
MIN	46	26	17	9.0	7.0	14	27	136	101	40	33	30
ACFT	3750	2070	1390	899	763	1340	6650	10700	9560	4680	2420	2780
CAL YR 1984	TOTAL	31298.0		MEAN	85.5	MAX	394	MIN	6.0	ACFT	62080	
WTR YR 1985	TOTAL	23691.5		MEAN	64.9	MAX	224	MIN	7.0	ACFT	46990	

e Estimated.

DIRTY DEVIL RIVER BASIN

157

09332100 MUDDY CREEK BELOW INTERSTATE HIGHWAY I-70, NEAR EMERY, UT

LOCATION.--Lat 38°48'44", long 111°11'53", in SW1/4NE1/4SW1/4 sec.13, T.23 S., R.6 E., Emery County, Hydrologic Unit 14070002, on left bank 0.1 mi downstream from bridge on Interstate Highway I-70, 0.2 mi downstream from Ivie Creek, and 12.2 mi southeast of Emery.

DRAINAGE AREA.--418 mi².

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORDS.--WDR UT-76-1: 1974(M), 1975.

GAGE.--Water-stage recorder. Altitude of gage is 5,630 ft from topographic map.

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

AVERAGE DISCHARGE.--23 years, 24.0 ft³/s, 17,400 acre-ft/yr, includes record for station 09332500, 1950-61, 11 years, 15.4 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,400 ft³/s Sept. 5, 1981, gage height, 11.25 ft from floodmark, from slope-area measurement of peak flow, datum then in use; no flow several days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 290 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	0300	*1,870	*7.12	Sept. 19	0430	369	4.23

Minimum daily discharge, 0.90 ft³/s Aug. 21, 30, Sept. 2, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	e73	e31	e22	e14	e27	48	e150	86	37	e10	e1.0
2	516	e72	e29	e21	e15	e27	61	e183	77	35	e9.0	e9.0
3	e240	e73	e25	e20	e16	e29	94	e179	77	32	e6.2	e1.3
4	126	e70	e28	e21	e14	e30	134	e167	78	30	e8.0	e4.0
5	71	e68	e24	e21	e16	e36	84	e160	72	29	e6.4	e1.0
6	65	e71	e27	e22	e16	e37	109	e157	70	23	e5.4	e2.3
7	61	e70	e29	e24	e17	e37	116	e144	71	e19	e6.0	e1.1
8	60	e67	e30	e25	e18	e39	118	e141	72	e15	e4.7	e9.0
9	60	e65	e34	e24	e16	e42	113	e145	72	e13	e4.0	e1.4
10	58	e49	38	e21	e22	e47	150	e173	73	e11	e5.2	e1.0
11	62	e60	37	e22	e25	e50	163	e153	74	e9.0	e4.2	e33
12	70	e56	38	e23	e26	51	161	e124	80	28	e3.8	17
13	71	e48	e30	e20	e27	38	155	e122	74	24	e2.9	9.2
14	71	e41	e28	e22	e27	40	158	e96	71	e10	2.1	8.3
15	75	e37	e28	e23	e28	44	183	e81	69	e9.5	e3.2	9.2
16	e73	e32	e27	e22	e27	36	201	70	69	e8.5	e4.8	8.7
17	e71	33	e19	e21	e29	40	195	66	64	e13	e2.2	9.9
18	e76	28	e27	e21	e25	37	181	70	62	e8.0	e2.6	8.8
19	e74	27	e30	e24	e24	38	158	75	56	12	e5.7	69
20	e87	25	e28	e25	e23	37	136	82	46	19	e1.2	e20
21	e87	29	e23	e24	e26	40	130	85	56	9.9	e9.0	e18
22	e76	31	e19	e20	e23	31	122	97	50	11	e1.4	17
23	e75	32	e26	e19	e23	33	109	85	57	22	e5.8	16
24	e76	30	e28	e20	e24	38	112	78	54	15	e1.0	15
25	e75	31	e25	e22	e25	46	105	84	56	13	e4.4	15
26	e73	16	e24	e21	e22	51	110	82	58	12	e1.4	14
27	e77	e12	e27	e22	e22	47	116	83	44	10	e1.6	14
28	e75	e17	e29	e21	e23	40	126	85	38	13	e2.7	15
29	e77	e34	e27	e22	---	41	129	84	37	28	e1.1	13
30	e75	e33	e26	e19	---	37	161	83	36	e14	e9.0	14
31	e73	---	e24	e17	---	49	---	87	---	e11	e2.5	---
TOTAL	2862	1330	865	671	613	1215	3938	3471	1899	543.9	121.30	359.00
MEAN	92.3	44.3	27.9	21.6	21.9	39.2	131	112	63.3	17.5	3.91	12.0
MAX	516	73	38	25	29	51	201	183	86	37	10	69
MIN	36	12	19	17	14	27	48	66	36	8.0	.90	.90
ACFT	5680	2640	1720	1330	1220	2410	7810	6880	3770	1080	241	712

CAL YR 1984	TOTAL	32333	MEAN	88.3	MAX	516	MIN	12	ACFT	64130
WTR YR 1985	TOTAL	17888.20	MEAN	49.0	MAX	516	MIN	.90	ACFT	35480

e Estimated.

DIRTY DEVIL RIVER BASIN

09332100 MUDDY CREEK BELOW INTERSTATE HIGHWAY I-70, NEAR EMERY, UT--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--November 1984 to September 1985.

SEDIMENT DATA: November 1984 to September 1985.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	NONCAR- BONATE (MG/L AS CACO3)	HARD- NESS CALCIUM DIS- SOLVED (MG/L AS CA)	SILUM, DIS- SOLVED (MG/L AS MG)	MAGNE- SODIUM, DIS- SOLVED (MG/L AS NA)
NOV 16...	1150	29	1600	8.4	10.0	2.0	560	11	100	76	160
MAR 11...	1230	49	2160	8.4	12.5	5.5	620	12	110	83	260
APR 10...	1510	131	810	8.2	16.5	10.0	300	6.0	64	34	66
MAY 15...	1300	85	1340	8.4	20.0	15.5	460	9.2	88	59	130
JUN 11...	1030	69	1030	8.5	25.0	16.5	390	7.8	73	51	86
JUL 18...	1100	7.1	2800	8.2	28.0	22.0	860	17	130	130	310
AUG 12...	1200	3.8	3100	8.2	21.5	18.0	1100	22	170	170	380

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
NOV 16...	38	3.0	2.8	580	37	0.4	8.8	1180	1.6	91.6	1.1	0.01
MAR 11...	48	4.7	4.4	890	50	0.4	10	1540	2.1	204	0.87	0.96
APR 10...	32	1.7	3.3	180	18	0.3	8.9	508	0.69	180	0.46	0.06
MAY 15...	38	2.7	3.0	440	28	0.3	9.0	897	1.2	205	0.74	0.03
JUN 11...	32	1.9	2.4	300	15	0.3	7.1	670	0.91	124	0.66	0.01
JUL 18...	44	4.7	8.7	1200	91	0.5	11	1880	2.6	36.3	1.5	0.00
AUG 12...	42	5.0	6.6	1500	70	0.5	10	2460	3.3	25.2	3.4	0.03

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
NOV 16...	1150	150
MAR 11...	1230	170
APR 10...	1510	70
MAY 15...	1300	130
JUN 11...	1030	110
JUL 18...	1100	240
AUG 12...	1200	420

DIRTY DEVIL RIVER BASIN

159

09332100 MUDDY CREEK BELOW INTERSTATE HIGHWAY I-70, NEAR EMERY, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM
NOV 16...	1150	29	2.0	1730	135	15	19	27
MAR 11...	1230	49	5.5	2690	356	17	25	36
APR 10...	1510	131	10.0	7690	2720	--	--	--
MAY 15...	1300	85	15.5	1660	381	--	--	--
JUN 11...	1030	69	16.5	621	116	32	42	62
JUL 18...	1100	7.1	22.0	5200	100	--	--	--
AUG 12...	1200	3.8	18.0	118	1.2	--	--	--

DATE	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .125 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .250 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .500 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN 1.00 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN 2.00 MM
NOV 16...	53	83	95	100	--	--
MAR 11...	64	91	98	100	--	--
APR 10...	--	--	--	--	--	--
MAY 15...	--	--	--	--	--	--
JUN 11...	77	92	99	100	--	--
JUL 18...	--	--	--	--	--	--
AUG 12...	87	95	97	98	99	100

DIRTY DEVIL RIVER BASIN

09332700 MUDDY CREEK AT DELTA MINE, NEAR HANKSVILLE, UT

LOCATION.--Lat 38°33'47", long 110°57'13", in SW1/4SE1/4NE1/4 sec.8, T.26 S., R.9 E., Emery County, Hydrologic Unit 14070002, on left bank 19 mi northwest of Hanksville and 70 mi southwest of Green River.

DRAINAGE AREA.--841 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft from topographic map.

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

AVERAGE DISCHARGE.--10 years, 33.2 ft³/s, 24,050 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,840 ft³/s Sept. 10, 1980, gage height, 9.60 ft from rating curve extended on basis of slope-area measurement of peak flow; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 3	unknown	*2,050	*6.02	No other peak greater than base discharge.			

No flow several days during August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	41	32	e21	e14	e20	68	117	72	27	e9.0	e1.4
2	e380	41	28	e19	e11	e24	45	116	66	27	e7.4	e.40
3	e200	40	24	e18	e12	e25	64	136	61	26	e6.0	e.00
4	e110	41	22	e17	e13	e26	97	136	63	22	e5.2	e1.0
5	76	38	25	e18	e11	27	87	128	60	20	e7.4	e3.2
6	54	37	21	e18	e13	33	79	123	57	19	e5.0	e.40
7	46	39	24	e19	e13	34	92	117	55	15	e4.5	e1.8
8	42	38	26	e21	e14	34	91	108	55	12	e5.8	e.40
9	38	34	27	e22	e15	36	87	105	56	8.5	e4.5	e.20
10	37	33	31	e21	e13	38	104	108	56	7.2	e3.0	e.80
11	34	26	35	e18	e19	43	107	128	57	7.2	e4.5	e.40
12	34	35	36	e19	e22	44	109	103	59	7.1	e3.5	e23
13	41	32	34	e20	e24	42	106	100	63	e24	e1.0	e13
14	42	31	23	e17	e24	33	107	85	58	e11	e.00	8.8
15	41	29	25	e19	e24	34	117	73	55	e8.0	e.00	5.7
16	43	26	e25	e20	e24	37	127	64	54	e7.6	e.00	4.3
17	42	29	e23	e19	e25	31	134	57	52	e7.2	e2.0	4.4
18	44	31	e16	e18	e26	34	130	54	46	e18	e4.5	5.0
19	42	27	e24	e18	e22	31	124	57	43	e8.4	e3.5	46
20	43	25	e27	e21	e21	31	108	79	38	e11	e5.0	41
21	55	23	e25	e22	e20	31	103	67	47	e17	e1.4	20
22	55	29	e20	e21	e23	33	96	78	39	e8.4	e.00	14
23	44	31	e16	e17	e22	26	90	76	35	e10	e.00	13
24	43	31	e23	e16	e22	27	83	68	40	e20	e4.5	11
25	44	29	e25	e17	e21	31	82	66	41	e12	e1.4	9.7
26	43	26	e22	e19	e22	38	91	67	43	e11	e3.6	11
27	41	11	e21	e18	e19	43	108	66	42	e10	e1.0	9.8
28	45	12	e24	e19	e19	44	94	68	33	e8.2	e1.2	8.6
29	43	15	e26	e18	---	39	96	68	28	e11	e2.2	7.8
30	45	30	e24	e19	---	36	105	67	27	e24	e2.0	8.4
31	43	---	e23	e16	---	46	---	70	---	e14	e.00	---
TOTAL	1907	910	777	585	528	1051	2931	2755	1501	438.8	99.10	274.50
MEAN	61.5	30.3	25.1	18.9	18.9	33.9	97.7	88.9	50.0	14.2	3.20	9.15
MAX	380	41	36	22	26	46	134	136	72	27	9.0	46
MIN	17	11	16	16	11	20	45	54	27	7.1	.00	.00
ACFT	3780	1800	1540	1160	1050	2080	5810	5460	2980	870	197	544

CAL YR 1984	TOTAL	24088	MEAN	65.8	MAX	380	MIN	10	ACFT	47780
WTR YR 1985	TOTAL	13757.40	MEAN	37.7	MAX	380	MIN	.00	ACFT	27290

e Estimated.

DIRTY DEVIL RIVER BASIN

161

09332700 MUDDY CREEK AT DELTA MINE, NEAR HANKSVILLE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

SEDIMENT DATA.--October 1975 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
OCT 04...	1310	138	2730	8.4	20.5	12.5	1000	21	310	65	270	36
NOV 16...	1300	23	2060	8.3	9.5	4.5	660	13	130	81	210	41
DEC 12...	1225	38	2140	8.3	13.5	1.5	700	14	140	85	230	42
MAR 13...	1230	38	2330	8.3	12.5	5.5	670	13	130	83	290	48
APR 12...	1220	92	990	8.2	23.5	13.5	360	7.1	78	39	90	35
MAY 17...	1130	59	1600	8.4	26.5	15.0	500	10	96	63	170	42
JUN 13...	1205	63	1290	8.4	36.5	21.0	420	8.5	76	57	130	40
JUL 19...	1245	9.4	2010	8.4	28.5	21.5	590	12	170	41	260	48

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 04...	3.8	9.1	120	1300	110	0.4	7.5	2070	2.8	772	0.92	0.01
NOV 16...	3.7	3.8	290	710	130	0.3	8.8	1270	1.7	78.8	0.95	<0.01
DEC 12...	3.9	3.6	320	680	160	0.3	9.3	1310	1.8	133	0.88	0.01
MAR 13...	5.0	4.2	110	830	150	0.4	9.0	1500	2.0	155	0.81	0.01
APR 12...	2.1	3.2	160	260	43	0.3	7.8	521	0.71	129	0.4	0.14
MAY 17...	3.4	3.2	160	520	100	0.3	9.8	962	1.3	153	0.54	0.03
JUN 13...	2.8	3.1	190	390	59	0.3	7.1	723	0.98	122	0.49	<0.01
JUL 19...	4.8	8.1	130	830	100	0.7	12	1420	1.9	36.0	1.3	0.01

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 04...	1310	180
NOV 16...	1300	170
DEC 12...	1225	170
MAR 13...	1230	180
APR 12...	1220	80
MAY 17...	1130	140
JUN 13...	1205	120
JUL 19...	1245	50

DIRTY DEVIL RIVER BASIN

09332700 MUDDY CREEK AT DELTA MINE, NEAR HANKSVILLE, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .125 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .250 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .500 MM
OCT 04...	1310	138	12.5	13500	5030	--	--	--	--	--	--	--
NOV 16...	1300	23	4.5	445	28	61	80	94	100	--	--	--
DEC 12...	1225	38	1.5	616	63	--	--	--	--	--	--	--
MAR 13...	1230	38	5.5	1540	158	57	70	90	98	99	100	--
APR 12...	1220	92	13.5	7550	1880	--	--	--	--	--	--	--
MAY 17...	1130	59	15.0	864	138	--	--	--	--	--	--	--
JUN 13...	1205	63	21.0	1320	225	18	25	34	62	91	99	100
JUL 19...	1245	9.4	21.5	11900	302	--	--	--	--	--	--	--

DIRTY DEVIL RIVER BASIN

163

09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UT

LOCATION.--Lat 38°05'50", long 110°24'27", in NE1/4SW1/4SE1/4 sec.20, T.31 S., R.14 E., Garfield County, Hydrologic Unit 14070004, on right bank 0.25 mi upstream from Poison Spring Wash and 25.5 mi southeast of Hanksville.

DRAINAGE AREA.--4,159 mi².

PERIOD OF RECORD.--June 1948 to current year. Prior to October 1968 published as "near Hite."

REVISED RECORDS.--WDR UT-77-1: Drainage area. WDR UT-80-1: 1979, 1977-79(P).

GAGE.--Water-stage recorder. Altitude of gage is 3,850 ft from topographic map. Prior to July 15, 1964, at site 28 mi downstream at different datum. July 15, 1964 to Dec. 14, 1976, approximately 1,200 ft upstream at datum 4.83 ft higher. Dec. 15, 1976 to Sept. 30, 1980 at site 400 ft upstream at datum 4.28 ft higher.

REMARKS.--Records poor. Many diversions for irrigation above station.

AVERAGE DISCHARGE.--37 years, 103 ft³/s, 74,620 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 35,000 ft³/s Nov. 4, 1957, gage height, 28.1 ft from floodmarks, site and datum then in use, from rating curve extended above 9,000 ft³/s on basis of slope-area measurement at gage height 20.65 ft; no flow at times many years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 19	0300	*2,240	*8.17				

Minimum discharge, no flow, several days during August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e75	e147	e152	e171	e145	248	368	e275	131	21	e72	e57
2	e425	e155	e150	e156	e150	243	307	279	127	12	e4.5	e54
3	e600	e157	e155	e77	e152	253	278	313	119	e10	e3.5	e53
4	e300	e152	e158	e128	e153	253	256	337	102	15	e3.1	e60
5	e233	e154	e155	e114	e141	214	279	363	90	e12	e3.3	e65
6	e147	e156	e160	e133	e140	227	259	359	91	e11	e2.3	e72
7	e119	e156	e165	e188	e150	243	241	340	83	e8.2	e2.1	e76
8	e104	e156	e180	e219	e170	237	382	287	86	e7.0	e1.9	e86
9	e100	e161	e187	e230	e210	235	526	257	84	e5.3	e1.7	e83
10	e100	e172	e192	e216	e205	235	670	247	87	e5.1	e1.6	e79
11	e92	e176	e195	e186	e210	253	846	248	86	e5.0	e1.7	e89
12	e86	e177	e202	e177	e215	276	895	278	77	e4.9	e1.0	e105
13	e87	e171	e202	e168	e235	311	772	256	59	e5.3	e.60	e102
14	e86	e181	e199	e135	e265	288	e625	231	57	e5.6	e.40	e99
15	e73	e189	e181	e109	291	251	e520	210	58	e9.0	e.20	e98
16	e66	e182	e180	e101	285	250	e430	170	47	29	e.00	e96
17	e83	e179	e186	112	270	249	e360	154	35	17	e.00	e89
18	e127	e171	e158	161	269	250	e275	134	34	141	e.00	e100
19	e129	e184	e105	177	267	252	e290	131	30	1450	e.00	e110
20	e142	e191	e190	198	277	255	e305	142	19	1120	e.00	e96
21	e211	e188	e221	183	272	249	e260	164	12	e700	e.00	e100
22	e272	e187	e194	181	278	218	e260	188	8.0	e440	e.00	e96
23	e162	e185	e136	164	261	207	e265	174	9.0	e470	e.00	e98
24	e150	e186	e93	143	259	199	e260	163	12	e360	e.00	e99
25	e145	e191	e102	153	246	200	e235	150	12	e250	e.00	e99
26	e145	e186	e140	152	241	189	e260	143	24	e130	e.00	e100
27	e146	e182	e178	153	252	204	e270	144	46	e100	e.00	e100
28	e143	e90	e202	150	248	276	e272	136	53	e88	e80	e101
29	e154	e124	e267	144	---	334	e265	127	54	e96	e74	e102
30	e153	e158	e203	138	---	290	e275	123	38	e98	e60	e103
31	e146	---	e204	e140	---	283	---	119	---	e84	e59	---
TOTAL	5001	5044	5392	4857	6257	7672	11506	6642	1770.0	5689.4	372.90	2667
MEAN	161	168	174	157	223	247	384	214	59.0	184	12.0	88.9
MAX	600	191	267	230	291	334	895	363	131	1430	80	110
MIN	66	90	93	77	140	189	235	119	8.0	4.9	.00	53
ACFT	9920	10000	10700	9630	12410	15220	22820	13170	3510	11280	740	5290
CAL YR 1984	TOTAL	65315		MEAN	178	MAX	820	MIN	42	ACFT	129600	
WTR YR 1985	TOTAL	62870.30		MEAN	172	MAX	1450	MIN	.00	ACFT	124700	

e Estimated.

ESCALANTE RIVER BASIN

09337000 PINE CREEK NEAR ESCALANTE, UT

LOCATION.--Lat 37°51'45", long 111°38'07", in SW1/4NE1/4SW1/4 sec.12, T.34 S., R.2 E., Garfield County, Hydrologic Unit 14070005, on right bank 0.2 mi upstream from unnamed right bank tributary and 7 mi north of Escalante.

DRAINAGE AREA.--68.1 mi².

PERIOD OF RECORD.--July 1950 to September 1955, July 1957 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversion above station.

AVERAGE DISCHARGE.--33 years, 5.02 ft³/s, 3,640 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,010 ft³/s Aug. 2, 1967, gage height, 7.72 ft, from rating curve extended above 35 ft³/s on basis of slope-area measurement at gage height 7.70 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 4	2000	111	3.31	No other peak greater than base discharge.			

Minimum daily discharge, 2.3 ft³/s Nov. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	4.9	4.2	4.6	4.7	e4.7	5.5	21	16	7.5	6.7	7.4
2	5.8	5.0	3.4	3.9	5.0	e4.4	6.8	40	14	7.2	6.3	7.5
3	7.2	5.1	3.0	5.9	4.7	e3.9	7.9	51	13	7.1	6.1	7.5
4	5.1	5.0	5.5	5.2	4.6	e3.6	7.9	58	12	6.9	5.8	8.0
5	4.2	5.0	e4.9	5.0	4.3	e4.5	7.8	49	11	6.7	5.7	7.4
6	4.0	5.1	e4.7	5.2	4.5	e4.6	8.9	43	10	6.7	7.3	7.2
7	3.9	4.9	4.5	5.4	4.5	e4.1	9.7	55	9.4	6.6	7.7	7.3
8	3.9	5.1	e4.4	5.2	4.8	e4.6	10	49	8.8	6.8	7.7	7.3
9	3.8	4.8	e4.7	4.8	4.9	e5.0	10	47	8.5	7.0	7.8	7.0
10	3.8	e3.7	e4.6	4.7	4.7	e5.5	12	42	7.9	7.6	7.9	7.2
11	4.0	e5.2	e4.5	4.5	4.6	e4.8	11	31	7.5	7.7	7.8	10
12	4.7	e5.1	e4.5	4.5	4.8	e4.5	14	24	7.4	8.3	7.8	8.6
13	4.3	5.1	4.5	3.5	4.8	e3.9	22	20	7.2	9.0	7.9	7.9
14	4.2	4.8	4.9	5.6	4.6	e4.8	29	20	7.9	8.3	8.1	7.8
15	4.3	4.6	5.2	5.2	5.4	e4.9	36	24	9.0	7.6	8.1	7.5
16	4.0	4.8	e4.7	5.1	5.3	e5.1	35	32	8.8	7.7	7.6	7.2
17	4.9	4.7	3.2	5.2	8.5	e5.0	29	32	8.5	11	7.4	7.1
18	4.4	4.4	e4.7	5.0	9.1	e5.0	25	30	8.1	11	7.3	12
19	5.2	4.4	e4.6	4.9	7.3	e5.3	19	25	7.0	9.1	6.9	12
20	5.5	3.3	e5.0	4.8	e5.2	e5.1	21	22	8.6	13	6.5	9.5
21	5.4	4.6	5.3	4.8	e4.8	5.4	20	26	9.0	11	6.7	9.5
22	4.9	4.8	3.1	4.7	e4.5	4.5	20	25	8.3	e8.0	6.6	9.2
23	4.7	5.7	e3.0	4.7	e4.4	5.2	20	23	8.3	e7.7	6.5	6.3
24	4.8	5.1	e3.3	5.0	e4.5	5.8	20	20	8.7	e7.6	6.5	4.7
25	5.2	3.8	5.9	4.7	e4.2	6.3	20	18	9.6	e7.3	6.7	4.7
26	5.1	e3.0	6.1	4.7	e4.0	6.0	19	18	9.5	6.9	6.8	4.7
27	5.2	2.3	6.0	4.7	e4.6	5.6	19	17	8.8	7.0	11	4.9
28	4.9	e4.5	5.5	4.8	e4.7	5.5	19	16	8.3	7.3	7.3	4.7
29	5.1	e4.7	5.0	5.2	---	3.6	19	15	8.1	7.9	6.9	4.7
30	5.2	e4.6	4.8	4.1	---	3.7	17	14	7.9	7.4	6.8	4.7
31	5.1	---	4.8	3.0	---	5.4	---	15	---	7.0	6.8	---
TOTAL	146.6	138.1	142.5	148.6	142.0	150.3	520.5	922	277.1	247.9	223.0	221.5
MEAN	4.73	4.60	4.60	4.79	5.07	4.85	17.3	29.7	9.24	8.00	7.19	7.38
MAX	7.2	5.7	6.1	5.9	9.1	6.3	36	58	16	13	11	12
MIN	3.8	2.3	3.0	3.0	4.0	3.6	5.5	14	7.0	6.6	5.7	4.7
ACFT	291	274	283	295	282	298	1030	1830	550	492	442	439

CAL YR 1984	TOTAL	2627.5	MEAN	7.18	MAX	47	MIN	2.3	ACFT	5210
WTR YR 1985	TOTAL	3280.1	MEAN	8.99	MAX	58	MIN	2.3	ACFT	6510

e Estimated.

ESCALANTE RIVER BASIN

165

09337500 ESCALANTE RIVER NEAR ESCALANTE, UT

LOCATION.--Lat 37°46'41", long 111°34'26", In NE1/4NW1/4SE1/4 sec.9, T.35 S., R.3 E., Garfield County, Hydrologic Unit 14070005, on left bank 150 ft downstream from Pine Creek and 2 mi northeast of Escalante.

DRAINAGE AREA.--320 mi².

PERIOD OF RECORD.--August 1909 to April 1913, October 1942 to September 1955, December 1971 to current year.
Published as Escalante Creek near Escalante 1909-13.

REVISED RECORDS.--WSP 1149: 1943(M), 1944, 1945(M). WRD UT-73-1: 1972.

GAGE.--Water-stage recorder. Altitude of gage, 5,670 ft from topographic map. Prior to Apr. 30, 1913, staff gage at approximately same site at different datum.

REMARKS.--Records poor. Diversions above station for irrigation of about 2,300 acres of crop and pastureland.

AVERAGE DISCHARGE.--29 years (1909-12, 1942-55, 1972-85), 15.4 ft³/s, 11,160 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,450 ft³/s August 1953, day unknown, gage height, 9.9 ft from outside high-water mark, from rating curve extended above 540 ft³/s on basis of slope-area measurements at gage heights, 5.50 ft and 7.34 ft from inside gage and 7.59 ft from outside high-water mark; minimum, 0.0/ ft³/s Dec. 24, 1978, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,350 ft³/s July 20, from slope-area measurement at gage height 6.15 ft; minimum daily, 1.2 ft³/s Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.9	e6.1	e4.3	e5.0	e10	17	18	19	55	2.2	e6.6	1.3
2	e9.0	e6.1	e4.4	e4.8	e11	17	19	39	50	1.9	e5.9	2.8
3	e29	e6.1	e4.8	e5.1	e11	9.2	24	63	44	1.7	e5.0	2.6
4	8.3	e6.0	e4.7	e5.4	e11	13	22	67	40	2.0	e4.2	4.4
5	4.7	e6.0	e5.3	e5.7	e10	18	17	64	37	1.7	e3.4	2.6
6	e4.5	e5.9	e5.8	e6.0	e10	18	13	46	34	1.7	e3.1	2.8
7	e3.9	e5.9	e5.2	10	e11	16	14	65	24	2.0	e2.8	4.1
8	e3.5	e5.9	e5.1	16	e11	14	14	58	18	2.0	e2.7	6.8
9	e3.4	e5.7	e5.0	9.1	e12	21	15	69	17	2.0	e2.5	5.5
10	e3.3	e5.3	e5.3	9.3	e11	26	17	85	15	1.9	e2.4	5.0
11	e3.5	e5.6	e4.7	6.4	e11	24	22	62	11	1.6	e2.3	12
12	e7.8	e5.9	e4.3	4.3	e12	24	32	52	11	1.4	e2.2	12
13	e6.2	e5.9	e5.0	e4.6	e12	15	28	38	11	e30	e2.1	8.9
14	5.0	e5.9	e5.6	e5.2	e14	13	32	40	12	e8.6	e2.0	10
15	3.3	e6.0	e6.2	e7.8	e16	22	48	42	12	e7.0	e1.8	8.1
16	2.4	5.5	e5.3	e10	13	21	43	52	9.9	e6.9	1.5	7.2
17	e3.6	6.7	e4.8	e12	17	24	37	57	9.4	e20	1.4	8.8
18	e4.7	4.8	e5.8	e15	15	21	52	62	8.6	e8.9	1.5	10
19	e5.2	4.3	e6.1	e13	15	32	53	66	7.4	e50	1.6	18
20	e6.3	3.2	e7.6	e16	16	22	39	61	5.9	e80	1.7	14
21	e6.1	4.3	e6.3	e13	19	15	29	64	5.6	e15	1.9	13
22	e6.0	5.9	e5.7	e8.9	16	15	29	63	5.3	e35	1.7	13
23	e5.7	9.8	e5.5	e6.8	16	13	21	63	4.1	e10	1.8	10
24	e6.0	6.0	e5.9	e8.4	14	17	21	61	2.8	e9.0	1.9	7.8
25	e6.1	7.2	e6.4	e11	16	20	16	62	2.6	8.5	1.5	5.7
26	e6.1	e5.0	e7.0	e10	13	22	15	64	2.6	8.5	1.6	4.8
27	e6.1	e3.9	e8.8	e9.4	16	24	19	59	2.4	7.7	31	4.7
28	e6.0	e3.3	e8.9	e9.0	15	19	17	52	2.2	7.2	7.9	5.2
29	e6.1	e4.2	e6.3	e12	---	22	21	47	4.2	9.9	1.6	5.4
30	e6.0	e5.2	e5.6	e11	---	16	15	48	4.7	8.7	1.4	5.6
31	e6.2	---	e5.3	e7.2	---	19	---	54	---	7.4	1.2	---
TOTAL	187.9	167.6	177.0	277.4	374	589.2	762	1744	468.7	360.4	110.2	222.1
MEAN	6.06	5.59	5.71	8.95	13.4	19.0	25.4	56.3	15.6	11.6	3.55	7.40
MAX	29	9.8	8.9	16	19	32	53	85	55	80	31	18
MIN	2.4	3.2	4.3	4.3	10	9.2	13	19	2.2	1.4	1.2	1.3
ACFT	373	332	351	550	742	1170	1510	3460	930	715	219	441
CAL YR 1984	TOTAL	4211.6	MEAN	11.5	MAX	100	MIN	1.4	ACFT	8350		
WTR YR 1985	TOTAL	5440.5	MEAN	14.9	MAX	85	MIN	1.2	ACFT	10/90		

e Estimated.

SAN JUAN RIVER BASIN

09368000 SAN JUAN RIVER AT SHIPROCK, NM
(National stream-quality accounting network, surveillance network, and radiochemical network station)

LOCATION.--Lat 36°47'32", long 108°43'54", in NW¼ sec.27, T.30 N., R.18 W., San Juan County, Hydrologic Unit 14080105, on left bank 3 mi west of Shiprock, 6 mi downstream from Chaco River, and at mile 215.0.

DRAINAGE AREA.--12,900 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January to October 1911, February 1927 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1931, 1934-38, 1951. WSP 1313: 1911, 1933. WDR NM-78-1: 1977.

GAGE.--Water-stage recorder. Datum of gage is 4,848.68 ft above National Geodetic Vertical Datum of 1929 (river-profile survey). Prior to Apr. 6, 1922, nonrecording gage and Apr. 7, 1922, to Oct. 25, 1933, water-stage recorder, at site 3 mi upstream at different datum. Oct. 26, 1933, to Sept. 30, 1936, water-stage recorder at present site at datum 3.31 ft higher and Oct. 1, 1936, to Sept. 30, 1952, at datum 1.77 ft higher. Supplementary water-stage recorders at nearby sites, same datum, used at times.

REMARKS.--Estimated daily discharges: Feb. 3, 4 and Aug. 9-20. Water-discharge records good except for estimated daily discharges, which are fair. Since 1962 flow partly regulated by Navajo Reservoir (station 09355100). Diversions for irrigation of about 118,000 acres upstream from station. Ungaged canals bypass station on both right and left bank, though some of bypass flow is returned to river downstream from gage.

AVERAGE DISCHARGE.--59 years (water years 1927-85), 2,208 ft³/s, 1,600,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD (SINCE 1927).--Maximum discharge, about 80,000 ft³/s Aug. 11, 1929, gage height, 5.7 ft, site and datum then in use; minimum daily, 8 ft³/s Aug. 25, 26, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood occurred Oct. 6, 1911, and reached a stage of 22 ft, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peaks discharges greater than base discharge of 6,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 16	2215	7620	7.21	June 10	0915	*13100	*8.87
May 6	0215	10800	8.32				

Minimum daily discharge, 920 ft³/s Aug. 9, 10, 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1240	1410	2200	2090	2290	1500	3580	6150	8440	4950	2310	1180
2	1180	1920	2190	2000	2240	1630	3670	6410	7430	4310	2200	1180
3	1470	2010	2230	1870	2250	1770	3710	6840	7630	3660	2440	1170
4	1960	2000	2260	1940	2300	1790	3930	7940	8050	3590	2730	1200
5	2360	2030	2230	1930	2360	2190	4460	9490	7970	3630	2090	1230
6	2130	2050	2210	1950	2620	2560	4700	10300	8160	3320	1570	1250
7	2090	2030	2180	1980	2660	2640	5140	10100	9310	3120	1130	1330
8	1890	1980	2170	1540	2720	2650	5550	9730	11100	2940	1050	1390
9	1650	1990	2210	1370	2710	2760	5770	10000	12000	2710	920	1450
10	1810	1930	2200	1310	2670	2930	5970	9860	12600	2640	920	1460
11	1990	1920	2190	1280	2670	3660	6010	9550	11600	2650	930	1440
12	2220	1920	2270	1210	2730	4340	6060	8480	10900	2710	940	3370
13	2340	1890	2320	1140	2730	4790	6270	7440	10300	2690	950	2620
14	2340	2040	2370	1120	2730	3490	6610	6990	9770	2880	950	2310
15	2340	2220	2240	1850	2740	3120	6880	6410	9660	2780	940	2020
16	2370	2320	2180	2370	2780	3240	7280	6190	9520	2620	930	2040
17	2470	2320	2130	2400	3070	3300	7210	6450	9960	2470	925	2370
18	2730	2330	2110	2400	3780	3170	6890	6640	9070	2380	920	2430
19	2540	2300	2120	2370	4090	3780	6620	6650	8590	2650	920	3820
20	2430	2330	2130	2390	3740	4380	6210	6790	8280	3150	1080	4700
21	2320	2270	2150	2410	4030	4240	5710	6620	8060	3070	1380	3970
22	2400	2240	2120	2390	3250	3930	5460	6370	8150	3000	1300	3410
23	2310	2250	2090	2430	2050	3750	5140	6190	8070	3390	1220	3230
24	2400	2310	2080	2460	1590	3560	5010	6080	7660	2740	1180	2910
25	2260	2370	2120	2460	1510	3640	4750	6380	7440	2270	1170	2630
26	2180	2380	2090	2450	1490	3630	4740	7060	7720	2040	1250	2500
27	2200	2310	2100	2440	1420	3730	4860	7910	6970	1970	1200	2360
28	2140	2210	2390	2410	1450	3790	5250	9020	6300	1900	1300	2250
29	2130	2200	2600	2440	---	3810	8630	9560	5710	1950	1510	2200
30	1560	2200	2340	2430	---	3760	7520	9880	5200	2690	1200	2160
31	979	---	2170	2380	---	3660	---	9550	---	2520	1160	---
TOTAL	64429	63680	68390	63210	72670	101190	169590	243030	261620	89390	40715	67580
MEAN	2078	2123	2206	2039	2595	3264	5653	7840	8721	2884	1313	2253
MAX	2730	2380	2600	2460	4090	4790	8630	10300	12600	4950	2730	4700
MIN	979	1410	2080	1120	1420	1500	3580	6080	5200	1900	920	1170
AC-FT	127800	126300	135700	125400	144100	200700	336400	482100	518900	177300	80760	134000
CAL YR 1984	TOTAL	924636	MEAN	2526	MAX	9880	MIN	844	AC-FT	1834000		
WTR YR 1985	TOTAL	1305494	MEAN	3577	MAX	12600	MIN	920	AC-FT	2589000		

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for New Mexico, 1985."

SAN JUAN RIVER BASIN

167

09378100 NORTH CREEK ABOVE RANGER STATION, NEAR MONTICELLO, UT

LOCATION.--Lat 37°52'23", long 109°21'57", in SE1/4SW1/4 sec.26, T.33 S., R.23 E., San Juan County, Hydrologic Unit 14080203, on left bank 0.5 mi northwest of Baker Ranger Station, 1.3 mi west of Monticello.

DRAINAGE AREA.--8.68 mi².

PERIOD OF RECORD.--October 1979 to September 1985 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 7,180 ft from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--6 years, 1.92 ft³/s, 1,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 91 ft³/s June 2, 1983, gage height, 5.64 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 9	1000	*40	*5.20	No other peak greater than base discharge.			

No flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.52	2.8	1.6	e.10	.00	.00
2	.00	.00	.00	.00	.00	.00	1.1	3.0	2.1	e.05	.00	.00
3	.00	.00	.00	.00	.00	.00	2.6	4.4	2.3	e.06	.00	.00
4	.00	.00	.00	.00	.00	.00	3.3	9.5	2.0	e.05	.00	.00
5	.00	.00	.00	.00	.00	.00	3.6	12	1.9	e.02	.00	.00
6	.00	.00	.00	.00	.00	.00	4.8	8.8	1.4	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	5.5	7.2	2.1	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	5.0	7.3	13	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	6.1	6.1	33	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	6.7	4.8	32	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	7.7	3.6	27	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	7.7	2.3	19	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	6.6	1.4	16	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	5.7	.73	16	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	4.7	.40	17	.00	.00	.00
16	.00	.00	.00	.00	.00	e.01	4.2	.36	16	.00	.00	.00
17	.00	.00	.00	.00	.00	.07	4.1	.28	15	.00	.00	.00
18	.00	.00	.00	.00	.00	.08	6.9	.33	14	.00	.00	.00
19	.00	.00	.00	.00	.00	.10	4.9	.63	12	.00	.00	.00
20	.00	.00	.00	.00	.00	.12	4.2	.51	7.5	.00	.00	.00
21	.00	.00	.00	.00	.00	.12	5.6	.72	6.3	.00	.00	.00
22	.00	.00	.00	.00	.00	.12	3.8	.96	5.5	.00	.00	.00
23	.00	.00	.00	.00	.00	.10	2.7	.98	5.0	.00	.00	.00
24	.00	.00	.00	.00	.00	.10	2.5	1.5	4.7	.00	.00	.00
25	.00	.00	.00	.00	.00	.15	2.4	2.2	4.4	.00	.00	.00
26	.00	.00	.00	.00	.00	.52	2.0	4.7	3.9	.00	.00	.00
27	.00	.00	.00	.00	.00	.58	1.9	7.6	2.7	.00	.00	.00
28	.00	.00	.00	.00	.00	.45	3.1	3.5	1.4	.00	.00	.00
29	.00	.00	.00	.00	---	.62	2.3	2.3	e.70	.00	.00	.00
30	.00	.00	.00	.00	---	.67	2.5	2.0	e.30	.00	.00	.00
31	.00	---	.00	.00	---	.57	---	1.2	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	4.38	124.72	104.10	285.80	.28	.00	.00
MEAN	.00	.00	.00	.00	.00	.14	4.16	3.36	9.53	.01	.00	.00
MAX	.00	.00	.00	.00	.00	.67	7.7	12	33	.10	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.52	.28	.30	.00	.00	.00
ACFT	.00	.00	.00	.00	.00	8.7	247	206	567	.6	.00	.00
CAL YR 1984	TOTAL	302.80	MEAN	.83	MAX	17	MIN	.00	ACFT	601		
WTR YR 1985	TOTAL	519.28	MEAN	1.42	MAX	33	MIN	.00	ACFT	1030		

e Estimated.

SAN JUAN RIVER BASIN

09378200 MONTEZUMA CREEK AT GOLF COURSE, AT MONTICELLO, UT

LOCATION.--Lat 37°51'38", long 109°20'30", in SW1/4SE1/4 sec.36, T.33 S., R.23 E., San Juan County, Hydrologic Unit 14080203, on left bank 1,000 ft west of State Highway 163 and 0.8 mi south of Monticello.

DRAINAGE AREA.--17.6 mi².

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,900 ft from topographic map.

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

AVERAGE DISCHARGE.--6 years, 6.77 ft³/s. 4,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 537 ft³/s Apr. 24, 1983, gage height, 5.77 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 5	0900	*51	*4.55	Maximum discharge the same as maximum daily discharge on May 5.			

Minimum daily discharge, 0.02 ft³/s on many days during January, February, August, and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.20	.08	e.07	e.03	e.02	.85	12	30	e30	e.50	.13	.03
2	e.20	.09	e.06	e.03	e.03	1.1	21	31	e25	e.24	.13	e.03
3	e.15	.10	e.07	e.04	e.05	.80	18	31	e21	e.21	.11	e.02
4	e.10	.10	e.07	e.05	e.03	1.3	18	46	e15	e.20	.17	e.02
5	e.10	e.10	e.07	e.05	e.03	1.6	20	51	e12	e.20	.09	e.02
6	e.10	.10	e.08	e.06	e.05	.74	e20	42	e11	e.20	.09	e.02
7	e.10	.10	e.08	e.06	e.07	.84	e23	36	e12	e.20	e.11	e.02
8	e.10	.10	e.07	e.05	e.10	.85	e29	37	e20	e.20	e.12	e.02
9	e.10	.11	e.06	e.05	e.12	.97	e33	37	e24	e.20	e.10	e.02
10	.09	e.10	e.07	e.04	e.15	7.8	e29	35	e22	e.20	e.08	e.02
11	.08	e.09	e.06	e.04	e.20	13	e25	32	e18	e.20	e.06	e.02
12	.09	e.09	e.05	e.03	e.25	21	e20	28	e16	e.20	e.06	e.02
13	.08	e.09	e.04	e.02	e.30	17	e20	21	e14	e.20	e.06	e.02
14	.08	e.08	e.03	e.03	e.35	15	e20	17	e12	e.20	e.06	e.02
15	.10	e.07	e.03	e.02	e.40	15	e22	16	e10	e.20	e.06	e.02
16	.08	e.06	e.03	e.02	e.45	13	e25	15	e9.0	e.20	e.06	e.02
17	.11	e.06	e.04	e.03	e.55	14	e26	14	e8.0	e.20	e.06	e.02
18	.09	e.06	e.04	e.05	e.60	19	e33	15	e7.0	e.20	e.06	e.02
19	.09	e.05	e.04	e.07	e.70	26	e29	16	6.8	e.20	e.06	e.02
20	.09	e.05	e.04	e.06	e.65	24	e23	16	5.3	e.20	e.06	e.02
21	.10	e.05	e.04	e.04	e.80	22	e21	15	3.4	e.21	e.06	e.02
22	.10	e.07	e.03	e.04	e.90	11	e19	14	2.4	e.50	e.04	e.02
23	.09	e.07	e.03	e.04	e.90	11	e15	12	1.7	e.23	e.04	e.02
24	e.09	e.07	e.04	e.03	e.80	14	e13	12	.96	e.22	e.04	e.02
25	.09	e.06	e.05	e.03	e1.0	20	e12	15	1.0	e.20	e.02	e.02
26	.09	e.05	e.06	e.04	.72	19	e11	22	1.0	e.20	e.02	e.02
27	.09	e.05	e.06	e.04	e.75	14	e10	34	1.3	e.21	e.02	e.02
28	.09	e.05	e.06	e.03	.87	9.5	e16	38	1.1	e.19	e.02	e.02
29	.08	e.07	e.06	e.04	---	9.2	e22	37	1.0	e.22	e.15	e.02
30	.09	e.07	e.05	e.03	---	9.3	27	35	e.70	e.22	.07	e.02
31	.08	---	e.04	e.02	---	9.1	---	34	---	.11	.03	---
TOTAL	3.12	2.29	1.62	1.21	11.84	341.95	632	834	312.66	6.86	2.24	.62
MEAN	.10	.08	.05	.04	.42	11.0	21.1	26.9	10.4	.22	.07	.02
MAX	.20	.11	.08	.07	1.0	26	33	51	30	.50	.17	.03
MIN	.08	.05	.03	.02	.02	.74	10	12	.70	.11	.02	.02
ACFT	6.2	4.5	3.2	2.4	23	678	1250	1650	620	14	4.4	1.2
CAL YR 1984	TOTAL	622.64	MEAN	1.70	MAX	23	MIN	.02	ACFT	1240		
WTR YR 1985	TOTAL	2150.41	MEAN	5.89	MAX	51	MIN	.02	ACFT	4270		

e Estimated.

SAN JUAN RIVER BASIN

169

09378630 RECAPTURE CREEK NEAR BLANDING, UT

LOCATION.--Lat 37°45'20", long 109°28'33", in NW1/4NE1/4NW1/4 sec.11, T.35 S., R.22 E., San Juan County, Hydrologic Unit 14080201, on right bank 100 ft below road fork, 1.9 mi north of Manti-LaSal National Forest boundary, and 9.4 mi north of Blanding.

DRAINAGE AREA.--3.77 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 7,200 ft from topographic map.

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

AVERAGE DISCHARGE.--20 years, 1.50 ft³/s, 1,090 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft³/s Oct. 20, 1972, gage height, 2.14 ft; no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8.0 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 11	2230	20	1.26	May 4	1200	28	*1.44
Mar. 25	1830	12	1.14	May 27	2030	10	1.21
Apr. 9	1900	*32	1.39				

Minimum daily discharge, .01 ft³/s on many days during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.02	e.02	e.01	e.01	e.10	4.2	19	5.7	.01	.06	e.01
2	.06	.02	e.01	e.01	e.01	e.08	7.0	18	5.1	.01	.06	.01
3	.02	.02	e.01	e.02	e.02	e.08	12	24	4.4	.01	.07	.01
4	.02	.02	e.01	e.03	e.01	e.06	15	27	3.4	.01	.12	.01
5	.02	.02	e.01	e.03	e.01	e.04	15	27	2.8	.01	.08	e.01
6	.02	.02	e.02	e.03	e.02	e.20	17	20	2.4	.01	.06	e.01
7	.02	.02	e.02	e.03	e.02	e.40	20	20	2.6	.01	.05	.01
8	.02	.03	e.02	e.02	e.03	e.50	22	21	4.1	.01	.06	.01
9	.02	e.02	e.01	e.03	e.03	e1.0	24	19	5.2	.01	.05	e.01
10	.01	e.02	e.02	e.02	e.04	e10	20	16	4.5	.01	.05	e.01
11	.01	e.02	e.01	e.02	e.04	13	18	13	3.5	.01	.04	.01
12	.02	e.02	e.01	e.02	e.04	13	14	10	2.5	.01	.03	.01
13	.02	e.02	e.01	e.01	e.05	4.7	14	6.9	1.9	.01	.03	.01
14	.02	e.02	e.01	e.03	e.06	3.0	14	5.1	1.5	e.01	.03	.01
15	.02	e.02	e.01	e.02	e.06	2.4	15	4.6	1.2	e.01	.03	.05
16	.02	e.01	e.02	e.02	e.07	2.0	17	6.4	1.2	e.01	.03	.02
17	.02	e.01	e.02	e.03	e.07	1.8	18	7.9	1.0	e.01	.02	.01
18	.02	e.01	e.02	e.04	e.08	1.8	22	8.5	.74	e.01	.02	.23
19	.02	e.01	e.02	e.06	e.10	3.1	18	8.2	.52	.01	.02	.04
20	.02	e.01	e.02	e.04	e.04	3.3	13	7.1	.40	.01	.02	.04
21	.02	e.01	e.02	e.03	e.06	4.1	12	5.8	.28	.03	.02	.02
22	.03	e.02	e.01	e.03	e.08	3.7	11	4.8	.21	.36	.01	.02
23	.02	e.02	e.01	e.01	e.08	3.1	8.4	4.8	.14	.05	.01	.02
24	.02	e.02	e.02	e.01	e.06	4.8	7.8	5.3	.12	.03	.01	.02
25	.02	e.01	e.03	e.01	e.10	8.0	7.5	6.3	.13	.02	.01	.02
26	.02	e.01	e.03	e.02	e.04	8.0	6.9	8.0	.09	.02	.01	.02
27	.02	e.01	e.03	e.02	e.08	5.6	6.0	9.5	.06	.03	.01	.02
28	.02	e.01	e.03	e.01	e.10	4.2	6.8	9.6	.04	.02	.01	.02
29	.02	e.02	e.03	e.02	---	3.1	8.1	9.0	.02	.04	.01	.02
30	.02	e.02	e.02	e.01	---	2.5	13	8.5	.01	.04	.01	.02
31	.02	---	e.01	e.01	---	3.0	---	6.6	---	.06	e.01	---
TOTAL	.69	.51	.54	.70	1.41	110.66	406.7	366.9	55.76	.90	1.05	.73
MEAN	.02	.02	.02	.02	.05	3.57	13.6	11.8	1.86	.03	.03	.02
MAX	.06	.03	.03	.06	.10	13	24	27	5.7	.36	.12	.23
MIN	.01	.01	.01	.01	.01	.04	4.2	4.6	.01	.01	.01	.01
ACFT	1.4	.0	1.1	1.4	2.8	219	807	728	111	1.8	2.1	1.4
CAL YR 1984	TOTAL	290.44	MEAN	.79	MAX	12	MIN	.01	ACFT	576		
WTR YR 1985	TOTAL	946.55	MEAN	2.59	MAX	27	MIN	.01	ACFT	1880		

e Estimated.

SAN JUAN RIVER BASIN

09378650 RECAPTURE CREEK BELOW JOHNSON CREEK, NEAR BLANDING, UT

LOCATION.--Lat 37°40'51", long 109°27'43", in SW1/4SW1/4SE1/4 sec.2, T.36 S., R.22 E., San Juan County, Hydrologic Unit 14080201, on left bank 0.2 mi downstream from Johnson Creek, 1.5 mi upstream from U.S. Highway 163 and 4.3 mi northwest of Blanding.

DRAINAGE AREA.--50.2 mi².

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,120 ft from topographic map.

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

AVERAGE DISCHARGE.--10 years, 10.1 ft³/s, 7,320 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 695 ft³/s Mar. 14, 1981, gage height, 5.67 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 230 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 18	1600	*164	*3.49				

No flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.15	.00	.00	e.01	e.02	e.64	18	84	47	.50	.01	.00
2	e.15	.00	.00	e.01	e.02	e.60	23	78	40	.45	.01	.00
3	e.10	.00	.00	e.02	e.03	e.60	27	112	39	.46	.01	.00
4	e.05	.00	.00	e.03	e.02	e.54	30	136	41	.46	.01	.00
5	e.00	.00	.00	e.04	e.02	e.52	31	130	55	.45	.01	.00
6	e.00	.00	.00	e.04	e.03	e.60	34	87	58	.42	e.01	.00
7	e.00	.00	.00	e.04	e.04	e.68	40	87	67	.40	e.01	.00
8	e.00	.00	.00	e.04	e.05	e.68	47	94	67	.39	e.01	.00
9	e.00	.00	.00	e.04	e.06	e3.0	58	82	51	.35	e.01	.00
10	e.00	.00	.00	e.03	e.08	e10	e54	71	42	.33	e.01	.00
11	.00	.00	e.02	e.02	e.12	e23	e40	61	36	.30	e.01	.00
12	e.02	.00	e.01	e.02	e.14	e27	e39	55	30	.25	.00	.00
13	e.01	.00	.00	e.02	e.18	e23	e37	45	26	.42	.00	.00
14	e.01	.00	.00	e.02	e.22	e19	e37	37	23	.65	.00	.00
15	e.02	.00	.00	e.02	e.25	e19	e50	31	20	.47	.00	e.01
16	e.01	.00	.00	e.02	e.28	e17	e100	34	17	.16	.00	e.02
17	e.03	.00	.00	e.02	e.31	e18	113	41	e15	.14	.00	e.01
18	.00	.00	.00	e.04	e.33	e25	126	43	e14	.71	.00	e.50
19	.00	.00	.00	e.05	e.42	e30	93	43	e13	5.8	.00	1.3
20	.00	.00	.00	e.04	e.38	e29	80	41	e12	.41	.00	1.8
21	.00	.00	.00	e.03	e.46	e26	73	37	10	.13	.00	.58
22	.00	.00	.00	e.03	e.54	e16	69	e33	7.9	.15	.00	.04
23	.00	.00	.00	e.03	e.54	e16	63	e33	6.4	.09	.00	e.01
24	.00	.00	.00	e.02	e.50	e20	61	e33	5.3	.21	.00	e.01
25	.00	e.01	.00	e.02	e.68	e25	62	e42	6.2	.26	.00	e.01
26	.00	.00	.00	e.03	e.62	e23	61	e50	7.5	e.17	.00	.00
27	.00	.00	e.04	e.03	e.68	e19	59	e60	3.1	e.15	.00	.00
28	.00	.00	e.04	e.02	e.72	e14	66	e62	.76	e.10	e.00	e.01
29	.00	.00	e.04	e.04	---	e12	71	e59	.57	e.08	e.00	e.01
30	.00	.00	e.02	e.02	---	12	92	e54	.56	e.02	.00	e.01
31	.00	---	e.01	e.02	---	13	---	51	---	.01	.00	---
TOTAL	.55	.01	.18	.86	7.74	443.86	1754	1906	761.29	14.89	.11	4.32
MEAN	.02	.00	.01	.03	.28	14.3	58.5	61.5	25.4	.48	.00	.14
MAX	.15	.01	.04	.05	.72	30	126	136	67	5.8	.01	1.8
MIN	.00	.00	.00	.01	.02	.52	18	31	.56	.01	.00	.00
ACFT	1.1	.02	.4	1.7	15	880	3480	3780	1510	30	.2	8.6
CAL YR 1984	TOTAL	1342.71	MEAN	3.67	MAX	31	MIN	.00	ACFT	2660		
WTR YR 1985	TOTAL	4893.81	MEAN	13.4	MAX	136	MIN	.00	ACFT	9710		

e Estimated.

SAN JUAN RIVER BASIN

171

09378700 COTTONWOOD WASH NEAR BLANDING, UT

LOCATION.--Lat 37°33'38", long 109°34'41", in SW1/4NE1/4NW1/4 sec.23, T.37 S., R.21 E., San Juan County, Hydrologic Unit 14080201, on downstream end of center pier of highway bridge on State Highway 95, about 2.1 mi downstream from Brushy Basin Canyon, and 7.0 mi southwest of Blanding.

DRAINAGE AREA.--205 mi².

PERIOD OF RECORD.--October 1964 to current year. Annual maximum only December 1958 to September 1964 at crest-stage site.

GAGE.--Water-stage recorder. Datum of gage is 5,137.73 ft NGVD of 1929. Prior to October 1964, crest-stage gage only at site 300 ft upstream at different datum; October 1964 to July 13, 1966, at site 50 ft upstream at different datum. July 14, 1966 to Aug. 15, 1968, at same site at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversions above station.

AVERAGE DISCHARGE.--21 years, 8.81 ft³/s, 6,380 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,500 ft³/s Aug. 1, 1968, gage height, 20.68 ft; no flow during some periods each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 21	2230	*1,040	6.52	No other peak greater than base discharge.			

No flow many days during October, August, and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	2.8	e2.0	e1.8	5.3	6.9	14	20	e41	e.16	.19	.00
2	35	2.8	e1.8	e1.9	e6.0	7.4	15	21	e28	e.14	e.02	.00
3	7.6	2.9	e1.8	e1.9	e7.0	7.3	17	21	16	e.14	e.02	.00
4	15	2.7	e2.0	e2.2	e5.0	5.9	19	24	13	e.12	e.02	.00
5	e1.0	2.9	e2.0	e2.3	e4.0	5.7	18	24	e16	e.12	e.01	.00
6	e.50	3.2	e1.8	e2.3	e4.3	6.6	20	21	8.3	e.12	e.01	.00
7	e.40	3.3	e2.0	e2.5	e4.3	5.7	24	19	5.3	e.12	e.01	.00
8	e.40	3.1	e1.9	e2.3	e4.2	5.8	33	18	e5.0	e.10	e.01	5.5
9	e.40	3.6	e1.9	e2.5	e4.8	6.0	e35	18	e4.7	e.10	.00	.14
10	e.52	2.7	e2.0	e2.4	e5.0	16	e30	18	e4.4	e.10	.00	e.12
11	.47	e2.5	e2.2	e2.0	e5.0	32	e25	17	e4.0	e.10	.00	e9.8
12	1.6	e2.4	e2.2	e1.8	e5.3	46	e18	17	e3.6	e.10	.00	12
13	6.5	e2.4	e1.9	e1.4	e4.8	e50	e18	17	e3.3	e.10	.00	1.2
14	2.1	e2.3	e1.4	2.4	e4.8	e20	e18	e12	e3.0	e.10	.00	.05
15	2.2	e2.0	e1.3	3.8	e5.0	e20	e20	e11	e2.8	e.10	.00	21
16	3.4	e2.0	e1.4	3.9	e5.0	e17	e22	e10	e2.5	e.10	.00	6.9
17	2.7	e2.0	e2.0	3.5	e5.5	e19	e24	e9.0	e2.3	e.10	.00	.83
18	3.8	e2.0	e2.0	3.6	e5.8	e20	e25	e9.0	e2.0	e.10	.00	12
19	2.8	e1.8	e2.1	4.3	e6.1	e35	e21	e10	e1.7	e.10	.00	20
20	2.2	e1.8	e1.7	6.5	e6.0	e25	e17	e10	e1.5	e18	.00	24
21	5.2	e1.8	e1.3	5.7	e6.5	e19	e14	e9.0	.73	47	.00	14
22	9.2	e1.7	e1.3	7.0	e7.0	e15	e13	e8.0	.47	50	.00	4.0
23	4.5	e2.0	e1.3	5.0	e7.0	e15	e11	e8.0	e.40	20	.00	1.7
24	3.8	e1.9	e1.7	6.9	e6.5	e17	e9.0	e8.0	e.35	4.7	.00	1.1
25	3.3	e1.9	e1.5	5.6	e6.6	e20	e8.0	e8.4	e.30	1.2	.00	.85
26	3.2	e1.9	e1.7	5.2	e6.8	e13	e7.6	e8.8	e.24	.61	.00	.68
27	3.2	e2.0	e1.5	6.5	6.5	e13	e7.0	e9.8	e.20	1.1	.00	.55
28	3.1	e2.0	e2.0	5.4	7.0	13	e12	e8.3	e.18	.63	.00	2.8
29	3.0	e2.9	e1.9	6.2	---	17	e17	e7.0	e.18	.55	.00	1.8
30	2.8	e2.9	e2.0	4.3	---	14	e21	e6.0	e.16	1.7	.00	1.2
31	3.0	---	e1.9	3.8	---	13	---	19	---	.75	.00	---
TOTAL	132.89	72.2	55.5	116.9	157.1	526.3	552.6	426.3	171.61	148.36	.29	142.22
MEAN	4.29	2.41	1.79	3.77	5.61	17.0	18.4	13.8	5.72	4.79	.01	4.74
MAX	35	3.6	2.2	7.0	7.0	50	35	24	41	50	.19	24
MIN	.00	1.7	1.3	1.4	4.0	5.7	7.0	6.0	.16	.10	.00	.00
ACFT	264	143	110	232	312	1040	1100	846	340	294	.6	282

CAL YR 1984	TOTAL	1640.83	MEAN	4.48	MAX	110	MIN	.00	ACFT	3250
WTR YR 1985	TOTAL	2502.27	MEAN	6.86	MAX	50	MIN	.00	ACFT	4960

e Estimated.

SAN JUAN RIVER BASIN

09379500 SAN JUAN RIVER NEAR BLUFF, UT

LOCATION.--Lat 37°08'49", long 109°51'51", in SE1/4NE1/4NW1/4 sec.7, T.42 S., R.19 E., San Juan County, Hydrologic Unit 14080205, on left bank 1,600 ft downstream from Gypsum Creek, 1,800 ft upstream from highway bridge, 20 mi southwest of Bluff, at mile 113.5.

DRAINAGE AREA.--23,000 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1914 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1213: 1940. WSP 1313: 1917, 1929. WSP 1343: 1945.

GAGE.--Water-stage recorder. Datum of gage is 4,048 ft from levels of Topographic Division, U.S. Geological Survey. Prior to Mar. 16, 1927, chain gages at sites about 1,700 ft downstream at different datums.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for Irrigation of approximately 200,000 acres above station. No diversion between station and mouth of river. Flow regulated by Navajo Reservoir since June 28, 1962 (see station 09355100 in New Mexico report).

AVERAGE DISCHARGE.--71 years, 2,561 ft³/s, 1,855,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--1914-17, 1927-84; maximum discharge, 70,000 ft³/s Sept. 10, 1927, gage height, 32.0 ft from rating curve extended above 31,000 ft³/s and slope-area measurement at gage height 26.62 ft; no flow July 3-13, 1934, Aug. 24-27, 29, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 6, 1911, which is greatest known at Shiprock, NM, probably exceeded that of Sept. 10, 1927 at this station but stage was not accurately determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 18	1630	8,110	9.39	Jun. 11	2100	12,600	11.76
Apr. 30	1830	*13,300	*12.12				

Minimum, 827 ft³/s Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1500	1390	2200	2780	2560	1820	3870	9090	8840	5330	2650	1240
2	1690	1500	2190	2610	2450	1900	3900	7390	7870	5020	2480	1240
3	1790	2050	2170	e2340	2470	e2080	3980	8040	7290	4200	2410	1250
4	2060	2070	2210	e2210	2580	e2210	4150	8240	7570	3510	2630	1270
5	2650	2050	2240	e2300	2640	e2220	4520	8990	7740	3450	2990	1380
6	2720	2080	2220	e2290	2600	e2620	5030	10100	7590	3430	2350	1330
7	2220	2060	2200	e2320	2860	e2990	5290	10500	7920	3260	1970	1320
8	2180	2050	2200	e2360	2890	e3080	5710	10300	8860	3010	1380	1450
9	2010	2020	2210	e1920	2940	e3090	6280	10100	10200	2930	1320	1520
10	1870	2000	2280	e1730	3240	e3200	6650	10200	11300	2800	1200	1500
11	1950	1980	2300	e1640	3150	e3380	6900	9950	12200	2740	1110	1630
12	2080	1970	2320	e1620	3040	e4170	7160	9620	12000	2740	1100	1990
13	2280	1950	2530	e1560	3100	e4900	7140	8600	11100	2770	1110	3140
14	2380	1940	2560	e1490	3130	e5400	7250	7810	10300	2710	1100	2500
15	2400	2020	2500	e1480	3190	e4070	7370	7180	9890	2850	1090	2420
16	2440	2170	2460	e2160	3330	e3700	7540	6790	9580	2770	1020	3040
17	2430	2250	2410	e2610	3260	e3550	7810	6680	9500	2680	980	2630
18	2590	2280	2340	e2640	3720	e4350	7820	6960	9680	2680	944	3030
19	2710	2280	2300	e2650	4410	4110	7650	6970	8860	2580	906	3640
20	2510	2280	2300	e2620	4610	5100	7680	7060	8520	2840	904	4980
21	2450	2300	2330	e2690	4390	5160	7010	7060	8250	3720	871	5760
22	2380	2240	2300	2750	4660	4720	6610	6880	8310	5760	1330	4060
23	2470	2220	2240	2770	3610	4280	6750	6770	8420	4240	1380	3180
24	2410	2210	2180	2830	2540	e4010	6440	6620	8040	3970	1370	2930
25	2420	2290	2160	2850	2030	e3900	6100	6730	7540	3150	1300	2680
26	2310	2360	2190	2810	1870	e3980	6030	7160	7380	2840	1290	2540
27	2240	2380	2270	2800	1830	e3920	6110	7580	7460	2700	1290	2450
28	2240	2270	2850	2800	1770	e4000	6190	8160	6690	2640	1340	2350
29	2150	2170	3450	2800	---	4060	7740	8650	6320	2320	1280	2300
30	2150	2180	3610	2800	---	4130	11800	9030	5780	2450	1470	2270
31	1930	---	3050	2750	---	3970	---	9330	---	3020	1340	---
TOTAL	69610	63010	74770	73980	84870	114070	194480	254540	261000	101090	45905	73020
MEAN	2245	2100	2412	2386	3031	3680	6483	8211	8700	3261	1481	2434
MAX	2720	2380	3610	2850	4660	5400	11800	10500	12200	5760	2990	5760
MIN	1500	1390	2160	1480	1770	1820	3870	6620	5780	2320	871	1240
ACFT	138100	125000	148300	146700	168300	226300	385800	504900	517700	200500	91050	144800
CAL YR 1984	TOTAL	1000110	MEAN	2733	MAX	9030	MIN	1240	ACFT	1984000		
WTR YR 1985	TOTAL	1410345	MEAN	3864	MAX	12200	MIN	871	ACFT	2797000		

e Estimated.

SAN JUAN RIVER BASIN

173

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1929 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1941 to September 1977, October 1980 to current year.

WATER TEMPERATURES: May 1944 to September 1961, October 1964 to current year.

SUSPENDED-SEDIMENT DISCHARGE: July 1929 to September 1980.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,790 microsiemens Sept. 19, 1959; minimum daily, 208 microsiemens June 17, 1952.

WATER TEMPERATURES: Maximum, 33.0°C July 31, 1959; minimum, 0.0°C on many days during winter period of most years.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 383,000 mg/L Sept. 21, 1929; minimum daily mean, no flow on several days in 1934 and 1939.

SEDIMENT LOADS: Maximum daily, 15,700,000 tons Oct. 20, 1972; minimum daily, 0 tons on several days in 1934 and 1939.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,270 microsiemens July 22; minimum daily, 140 microsiemens several days during June.

WATER TEMPERATURES: Maximum, 25.5°C several days during July; minimum, 0.0°C several days during January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 10...	1000	1790	650	8.3	21.5	15.5	--	8.4	650	--	--
NOV 27...	1200	2370	560	8.0	5.0	3.0	78	11.5	662	<1	<1
DEC 19...	1115	2340	560	8.2	7.5	3.5	--	11.0	660	--	--
JAN 21...	1220	2980	520	8.0	5.5	3.5	--	11.4	661	--	--
FEB 26...	0900	1960	800	8.2	10.0	5.0	--	11.8	660	--	--
MAR 18...	1230	4280	660	8.1	15.5	10.0	470	9.9	656	<1	K20
APR 24...	1300	6070	510	8.2	25.0	12.0	--	--	660	--	--
MAY 22...	1145	6610	370	8.2	25.0	13.0	340	9.4	660	<1	<1
JUN 19...	0815	8270	280	8.1	31.5	16.5	--	8.2	660	--	--
JUL 29...	1100	2440	540	8.3	23.5	22.0	--	7.2	660	--	--
AUG 27...	1150	1320	590	8.3	35.5	22.5	50	7.6	663	170	410
SEP 03...	1145	1200	560	8.2	24.0	22.0	--	--	--	--	--

K Results based on colony count outside acceptable range (non-ideal colony count).

SAN JUAN RIVER BASIN

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HC03)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L - CAC03)
OCT 10...	230	4.6	65	16	39	27	1.2	2.6	--	--
NOV 27...	220	4.4	59	17	38	27	1.2	2.0	150	125
DEC 19...	230	4.7	61	20	45	29	1.3	2.6	--	--
JAN 21...	210	4.2	57	16	34	26	1.1	2.1	--	--
FEB 26...	280	5.6	77	21	64	33	1.7	2.9	--	--
MAR 18...	270	5.3	70	22	48	28	1.3	2.6	160	132
APR 24...	200	4.0	54	16	39	29	1.2	2.5	--	--
MAY 22...	150	2.9	43	9.5	23	25	0.9	1.7	130	102
JUN 19...	120	2.4	35	7.4	14	20	0.6	1.6	--	--
JUL 29...	200	3.9	55	14	31	25	1.0	2.5	--	--
AUG 27...	230	4.6	65	16	37	26	1.1	2.6	170	140
SEP 03...	200	3.9	54	15	37	29	1.2	2.6	--	--
DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT 10...	190	10	0.3	9.7	--	333	0.45	1610	0.35	--
NOV 27...	180	10	0.2	9.5	386	317	0.43	2030	0.29	0.04
DEC 19...	180	10	0.2	11	--	330	0.45	2090	0.27	--
JAN 21...	140	8.6	0.2	11	--	269	0.37	2160	0.31	--
FEB 26...	260	16	0.3	9.8	--	451	0.61	2390	0.36	--
MAR 18...	210	16	0.3	10	440	459	0.62	5310	0.41	0.02
APR 24...	150	12	0.2	10	--	284	0.39	4650	0.33	--
MAY 22...	87	5.3	0.2	9.4	218	242	0.33	4520	0.14	0.05
JUN 19...	61	3.5	0.2	11	--	134	0.18	2990	0.14	--
JUL 29...	150	9.7	0.3	11	--	274	0.37	1800	0.25	--
AUG 27...	170	9.8	0.3	8.8	378	396	0.54	1410	<0.1	0.01
SEP 03...	150	9.8	0.3	8.8	--	278	0.38	899	<0.1	--

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	NITRO- GEN, AM- MONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04)
OCT 10...	--	--	--	--	--	--	--	--	0.02	0.06
NOV 27...	0.05	0.4	0.4	0.4	1.8	0.21	--	0.02	0.02	0.06
DEC 19...	--	--	--	--	--	--	--	--	0.07	0.21
JAN 21...	--	--	--	--	--	--	--	--	0.03	0.09
FEB 26...	--	--	--	--	--	--	--	--	<0.01	0.03
MAR 18...	0.03	2.0	2.00	2.0	8.9	0.90	--	0.03	0.01	0.03
APR 24...	--	--	--	--	--	--	--	0.01	--	--
MAY 22...	0.06	0.4	0.4	0.4	1.8	0.08	0.25	0.01	<0.01	0.03
JUN 19...	--	--	--	--	--	--	--	--	0.01	0.03
JUL 29...	--	--	--	--	--	--	--	0.01	--	--
AUG 27...	0.01	0.4	0.4	0.4	1.8	0.02	0.06	<0.01	0.01	0.03
SEP 03...	--	--	--	--	--	--	--	--	0.01	0.03

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV 27...	1200	20	<1	100	<0.50	<1	<1	<3.00	2	10	4
MAR 18...	1230	<10	<1	160	<0.50	<1	<1	<3.00	2	10	<1
MAY 22...	1145	<10	<1	140	<0.50	<1	<1	<3.00	3	7.00	<1
AUG 27...	1150	<10	1	93.00	<0.50	<1	<1	<3.00	2	<3.00	<1

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 27...	30	4	<0.1	<10	2	1	1	730	<6.0	30
MAR 18...	30	3	<0.1	<10	2	6	<1	890	<6.0	70
MAY 22...	20	2	<0.1	<10	<1	1	<1	450	<6.0	80
AUG 27...	30	4	<0.1	<10	1	1	<1	760	<6.0	20

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 10...	1000	60
DEC 19...	1115	40
JAN 21...	1220	40
FEB 26...	0900	60
APR 24...	1300	40
JUN 19...	0815	20
JUL 29...	1100	30
SEP 03...	1145	50

SAN JUAN RIVER BASIN

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	690	650	669	720	630	665	530	510	523	690	600	658
2	740	630	665	850	720	793	530	500	515	620	580	599
3	730	610	641	840	640	748	530	510	520	570	470	548
4	650	230	506	630	600	610	530	490	515	540	500	524
5	770	240	470	610	600	606	530	510	519	540	510	523
6	730	330	582	610	600	606	530	510	522	550	510	528
7	830	740	780	610	600	603	530	500	516	560	520	538
8	730	690	705	610	590	600	530	500	510	560	530	545
9	680	640	660	600	590	597	540	500	518	600	530	566
10	650	510	630	610	590	599	580	530	553	690	570	637
11	640	620	629	620	600	613	600	560	578	770	670	721
12	630	590	611	620	600	611	590	550	563	740	720	736
13	600	580	588	610	600	603	600	570	587	750	720	731
14	620	570	604	610	600	605	620	590	603	750	700	730
15	620	600	608	620	600	611	630	590	616	720	690	709
16	600	580	593	610	590	603	640	620	627	720	660	700
17	610	600	604	600	570	578	630	610	618	650	510	562
18	640	600	618	580	560	568	620	580	593	510	470	495
19	680	610	651	580	550	564	580	550	569	510	470	494
20	700	650	680	580	570	573	580	550	559	510	480	496
21	670	630	642	580	560	570	590	560	570	570	490	526
22	640	630	634	570	560	565	580	550	567	580	520	551
23	640	610	622	570	550	558	580	540	561	570	540	554
24	670	610	643	580	550	560	550	510	522	550	530	542
25	670	640	652	570	560	568	520	470	497	550	520	537
26	710	640	684	600	570	580	530	480	503	550	540	542
27	700	660	681	620	560	585	540	510	524	550	530	538
28	670	640	652	560	520	543	590	520	549	550	530	540
29	640	630	632	530	490	508	740	550	660	560	540	546
30	630	610	623	530	510	519	770	710	739	560	540	552
31	630	610	624	---	---	---	800	700	756	560	540	550
MONTH	830	230	632	850	490	597	800	470	567	770	470	581
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	560	390	444	790	760	770	600	560	580	350	300	328
2	420	380	403	820	770	788	620	570	604	300	260	280
3	500	400	425	850	770	804	660	610	642	260	230	245
4	510	450	485	830	780	800	690	640	668	240	220	230
5	510	430	465	770	690	731	650	550	597	230	210	220
6	510	480	494	700	620	672	550	480	517	220	210	219
7	510	490	498	620	550	573	500	460	474	300	210	243
8	500	450	474	560	530	544	480	440	454	300	280	291
9	500	470	487	610	560	582	450	420	433	290	280	284
10	590	470	519	610	550	578	430	400	417	280	270	278
11	540	490	513	900	580	665	420	400	408	290	280	283
12	510	490	497	910	790	838	420	400	409	280	200	256
13	510	470	491	850	770	800	410	380	396	220	210	213
14	510	460	487	780	700	728	400	370	383	230	220	223
15	520	490	507	750	670	725	380	360	372	220	200	215
16	530	500	516	690	650	670	370	360	367	200	180	193
17	550	530	541	680	640	650	360	340	355	190	180	183
18	600	540	570	680	650	668	360	340	348	200	180	189
19	670	540	599	690	640	662	370	350	358	200	160	181
20	700	550	635	710	590	645	390	350	373	180	170	172
21	700	570	637	790	710	751	400	380	386	180	170	175
22	630	570	599	740	650	692	430	390	406	180	170	177
23	720	570	660	670	600	639	530	430	483	180	170	177
24	700	660	679	600	570	589	530	490	514	180	170	175
25	770	670	727	580	560	566	490	390	457	180	170	177
26	790	760	771	570	550	559	400	380	385	180	170	179
27	780	750	755	570	530	553	380	360	373	180	170	175
28	790	740	764	540	510	526	400	370	388	170	160	169
29	---	---	---	540	510	518	470	380	412	170	160	165
30	---	---	---	580	540	555	650	350	560	170	160	161
31	---	---	---	600	560	582	---	---	---	170	150	160
MONTH	790	380	559	910	510	659	690	340	451	350	150	213

SAN JUAN RIVER BASIN

177

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	160	150	156	230	160	200	690	520	603	580	550	564
2	170	150	161	240	220	228	650	550	592	570	560	564
3	170	160	164	240	220	233	570	550	557	580	550	564
4	160	150	160	250	230	242	590	560	571	610	560	578
5	160	150	155	270	240	253	700	570	622	680	580	613
6	160	150	155	260	250	257	710	570	627	630	570	593
7	160	150	154	270	250	258	570	540	551	620	580	597
8	160	140	150	260	250	254	920	550	600	590	560	576
9	170	150	160	410	250	342	740	640	667	640	570	610
10	180	160	174	420	400	409	840	690	749	650	620	638
11	180	170	175	430	420	426	910	710	758	930	600	712
12	180	160	163	450	420	436	730	700	715	930	620	763
13	160	150	153	440	430	434	770	710	738	600	370	424
14	160	150	153	440	420	429	740	710	729	430	360	393
15	160	150	150	440	420	430	720	700	712	420	380	407
16	160	140	150	440	420	428	720	700	705	390	340	360
17	160	150	151	430	410	423	750	700	730	610	340	401
18	160	150	151	930	420	506	770	660	730	750	350	467
19	160	140	150	620	460	504	750	360	552	720	370	612
20	150	140	149	570	460	492	710	380	548	950	740	840
21	150	140	145	720	480	619	770	350	442	800	570	676
22	160	150	150	1270	510	750	780	710	750	870	570	674
23	160	150	151	680	340	485	710	570	622	590	540	560
24	150	140	148	790	360	389	670	590	630	550	510	525
25	150	140	149	470	360	413	650	590	614	510	480	495
26	160	140	151	490	420	455	610	580	596	500	370	477
27	160	150	153	430	400	410	600	580	586	500	490	495
28	160	150	152	400	350	373	590	570	577	510	480	498
29	160	150	156	810	330	456	590	560	572	490	480	482
30	180	160	167	700	520	570	590	560	576	510	490	495
31	---	---	---	750	530	571	600	570	579	---	---	---
MONTH	180	140	155	1270	160	409	920	350	632	950	340	555

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	16.5	15.0	16.0	11.5	9.5	10.5	3.0	2.5	2.5	3.0	2.0	2.5
2	16.5	14.5	15.5	11.0	9.5	10.0	3.0	2.5	3.0	2.0	.5	1.0
3	16.5	15.0	15.5	10.5	9.5	10.0	3.0	2.5	2.5	.0	.0	.0
4	15.5	14.5	15.0	10.5	9.0	9.5	3.0	2.5	2.5	.0	.0	.0
5	16.0	15.0	15.5	9.5	8.5	9.0	3.0	2.5	3.0	.0	.0	.0
6	16.0	15.0	15.5	9.0	8.0	8.5	3.0	2.5	2.5	.5	.0	.0
7	16.0	15.0	15.5	8.0	7.0	7.5	2.5	2.0	2.5	1.5	.5	1.0
8	16.0	15.0	15.5	8.0	7.0	7.5	2.5	2.5	2.5	2.0	1.5	2.0
9	16.0	15.0	15.5	8.0	7.0	7.5	3.0	2.5	2.5	2.5	1.5	2.0
10	16.5	15.0	16.0	7.0	6.0	6.5	3.5	3.0	3.0	2.5	2.5	2.5
11	16.5	15.5	16.0	6.5	5.5	6.0	4.5	3.5	4.0	2.5	2.0	2.5
12	16.0	15.0	15.5	6.5	5.5	6.0	4.5	4.5	4.5	2.5	1.5	2.0
13	15.0	13.5	14.0	8.0	6.5	7.0	4.5	4.5	4.5	2.0	.5	1.0
14	14.5	13.5	14.0	8.0	7.5	8.0	4.5	3.5	4.0	1.0	.0	.5
15	13.5	11.0	12.0	8.5	7.5	8.0	3.5	3.5	3.5	.5	.0	.0
16	11.0	9.5	10.0	8.0	7.0	7.5	3.5	3.0	3.5	.5	.0	.0
17	10.0	9.5	9.5	8.0	7.5	8.0	3.0	3.0	3.0	.5	.0	.5
18	9.5	9.0	9.5	8.0	7.0	7.5	3.5	3.0	3.0	1.0	.0	.5
19	9.0	8.0	9.0	7.5	6.5	7.0	4.0	3.5	3.5	2.0	1.0	1.5
20	9.5	9.0	9.0	7.0	6.0	6.5	4.0	3.5	4.0	2.5	1.5	2.0
21	9.5	9.0	9.5	6.5	5.5	6.0	4.0	3.0	3.0	4.0	2.0	3.0
22	9.5	8.5	9.0	6.5	6.0	6.0	3.0	2.5	2.5	4.0	4.0	4.0
23	10.0	9.0	9.5	7.5	6.5	6.5	2.5	1.5	2.0	4.0	4.0	4.0
24	10.0	9.5	9.5	8.0	7.0	7.5	1.5	1.0	1.0	4.5	4.0	4.5
25	9.5	9.0	9.0	8.0	7.0	7.5	1.0	1.0	1.0	4.5	3.5	4.0
26	9.5	8.5	9.0	7.0	5.5	6.0	1.5	1.0	1.0	4.5	4.0	4.0
27	10.0	9.0	9.5	5.5	2.5	4.0	2.5	1.5	2.0	5.0	4.0	4.5
28	10.0	9.0	9.5	2.5	2.0	2.0	4.0	2.5	3.0	5.0	4.0	4.5
29	10.5	9.0	9.5	2.0	1.5	2.0	4.5	4.0	4.5	4.5	4.0	4.5
30	10.5	9.5	10.5	3.0	2.0	2.5	4.0	3.0	3.5	4.5	4.0	4.0
31	11.0	9.5	10.5	---	---	---	3.5	3.0	3.0	3.5	1.5	2.5
MONTH	16.5	8.0	12.0	11.5	1.5	7.0	4.5	1.0	3.0	5.0	.0	2.0

SAN JUAN RIVER BASIN

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1.5	1.0	1.0	7.5	6.0	7.0	9.5	6.0	8.0	14.0	12.0	13.0
2	1.0	.5	.5	8.0	7.0	7.5	11.5	8.0	9.5	15.0	13.0	14.0
3	.5	.5	.5	7.5	6.0	6.5	12.5	9.5	11.0	14.5	13.5	14.0
4	.5	.5	.5	5.5	4.5	5.0	12.0	10.5	11.0	15.0	14.0	14.5
5	.5	.5	.5	5.5	4.0	5.0	11.5	9.0	10.5	15.0	13.5	14.5
6	1.0	.5	.5	6.5	5.0	6.0	12.5	9.5	11.0	15.0	14.0	14.5
7	1.5	.5	1.0	7.5	6.0	6.5	13.0	10.5	11.5	15.0	13.5	14.5
8	3.0	1.5	2.0	8.0	6.5	7.0	13.0	11.0	12.0	15.0	13.0	13.5
9	4.5	3.0	3.5	9.0	8.0	8.0	13.0	11.5	12.0	14.0	12.5	13.0
10	4.5	4.0	4.5	9.5	8.5	9.0	14.0	11.5	12.5	12.5	12.0	12.5
11	4.0	3.0	3.5	9.5	9.0	9.5	14.0	12.0	13.0	13.0	11.0	12.0
12	3.5	2.5	3.0	9.0	8.5	9.0	13.5	12.0	13.0	13.0	11.0	12.0
13	4.0	3.0	3.5	9.0	7.5	8.0	13.5	11.5	12.5	11.5	10.0	11.0
14	5.0	3.5	4.0	8.5	7.0	8.0	13.5	11.5	12.5	12.5	9.5	11.0
15	5.5	4.0	4.5	8.5	7.5	8.0	13.5	11.5	12.5	13.5	11.0	12.5
16	6.0	4.5	5.0	8.5	7.5	8.0	13.5	12.0	13.0	14.5	12.5	13.5
17	6.0	5.0	5.5	10.0	8.0	9.0	13.0	12.0	12.5	15.5	12.5	14.0
18	7.0	5.5	6.0	11.0	9.0	10.0	12.5	11.0	12.0	15.5	13.5	14.5
19	7.0	5.0	6.0	11.0	9.5	10.0	11.0	10.0	10.5	15.5	13.5	14.5
20	6.0	5.0	5.5	10.0	8.0	9.0	11.0	10.0	10.5	15.0	13.0	14.0
21	6.5	5.0	5.5	9.5	8.0	9.0	11.0	10.0	10.5	14.5	13.0	14.0
22	6.5	5.0	6.0	9.0	7.5	8.5	10.5	9.5	10.0	14.0	12.0	13.0
23	6.5	5.0	5.5	8.5	6.0	7.5	10.5	9.0	9.5	16.0	13.0	14.5
24	5.5	4.0	5.0	9.5	7.0	8.5	11.5	9.5	10.5	16.5	14.0	15.0
25	5.5	4.0	5.0	10.5	8.0	9.5	12.0	11.0	11.5	16.0	14.5	15.5
26	5.5	5.0	5.0	10.0	8.5	9.5	11.5	9.5	10.5	16.5	14.5	15.5
27	6.5	5.0	5.5	9.5	8.0	8.5	11.5	8.5	9.5	16.0	14.0	15.0
28	7.0	5.5	6.5	8.5	7.5	8.0	11.5	11.0	11.5	16.0	14.0	15.0
29	---	---	---	8.0	7.0	7.0	12.0	10.0	11.0	15.5	14.5	15.0
30	---	---	---	7.5	6.0	7.0	12.5	11.0	12.0	15.0	13.5	14.0
31	---	---	---	8.0	5.5	7.0	---	---	---	15.0	13.0	14.0
MONTH	7.0	.5	4.0	11.0	4.0	8.0	14.0	6.0	11.5	16.5	9.5	14.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	15.0	13.0	14.0	19.5	16.5	18.0	22.0	21.0	21.5	24.0	23.0	23.5
2	15.5	13.5	14.5	20.0	17.0	18.5	23.0	21.0	22.0	23.5	22.5	23.0
3	15.5	13.5	14.5	21.5	18.5	20.0	24.0	21.5	23.0	22.5	21.0	21.5
4	16.0	14.0	15.0	22.5	19.5	21.0	24.0	22.0	23.0	21.5	20.5	21.0
5	16.0	14.0	15.0	23.5	20.5	22.0	23.5	21.5	22.5	21.0	19.5	20.0
6	17.5	14.5	16.0	23.5	21.0	22.5	23.0	21.5	22.5	20.0	18.5	19.0
7	18.5	16.0	17.0	24.0	21.5	23.0	23.5	21.0	22.5	19.5	18.5	19.0
8	18.5	17.0	17.5	24.5	22.5	23.5	23.5	22.0	22.5	19.5	18.0	19.0
9	18.5	16.5	17.5	24.5	22.5	23.5	24.0	21.5	23.0	19.5	18.0	19.0
10	18.0	16.0	17.5	24.5	22.0	23.5	24.0	21.5	23.0	18.5	17.0	17.5
11	18.0	16.0	17.0	25.5	23.0	24.5	23.5	22.0	22.5	17.0	16.0	16.5
12	18.0	15.5	17.0	25.0	23.5	24.5	22.5	19.5	21.5	16.5	15.5	16.0
13	17.5	15.5	17.0	25.5	23.5	24.5	22.5	20.0	21.5	16.5	15.5	16.0
14	18.0	16.0	17.0	25.5	23.5	24.5	22.5	20.0	21.5	17.0	15.5	16.5
15	18.0	16.5	17.0	25.0	23.0	24.0	23.5	20.5	22.0	18.0	17.0	17.5
16	18.0	16.5	17.5	25.5	23.0	24.5	23.0	20.5	22.0	19.0	17.5	18.0
17	18.0	16.5	17.5	25.5	23.5	24.5	22.5	20.5	21.5	18.5	17.5	18.0
18	18.0	15.5	17.0	25.5	23.5	24.5	22.5	20.0	21.5	18.0	16.5	17.0
19	18.0	16.0	17.5	24.5	23.0	24.0	23.5	21.5	22.5	17.0	15.0	16.0
20	19.0	17.0	18.0	24.5	22.5	24.0	23.0	21.5	22.0	16.5	15.0	15.5
21	19.0	17.0	18.0	24.5	22.5	23.5	23.5	21.0	22.5	16.0	14.0	15.0
22	19.0	17.0	18.0	23.0	21.0	21.5	24.0	22.0	23.5	16.5	15.0	16.0
23	18.5	17.0	18.0	23.5	22.0	23.0	24.0	22.5	23.5	15.5	13.5	14.5
24	18.0	17.0	17.5	23.0	21.5	22.5	23.5	21.0	22.5	15.0	13.5	14.5
25	17.5	16.0	17.0	23.0	21.0	22.0	22.5	21.0	22.0	15.0	14.0	15.0
26	17.5	15.5	16.0	22.5	20.5	21.5	23.0	21.5	22.5	15.0	14.5	15.0
27	17.0	14.5	16.0	24.0	21.5	22.5	24.0	22.0	23.0	15.5	14.5	15.0
28	18.0	15.0	16.5	24.0	21.5	22.5	24.5	22.5	23.5	15.5	14.5	15.0
29	17.5	15.5	16.5	22.0	20.5	21.5	25.0	23.0	24.5	14.5	13.5	14.0
30	19.0	15.5	17.0	22.5	20.5	21.5	25.0	23.5	24.5	14.0	13.0	13.5
31	---	---	---	22.5	20.5	21.5	25.0	23.5	24.0	---	---	---
MONTH	19.0	13.0	16.5	25.5	16.5	22.5	25.0	19.5	22.5	24.0	13.0	17.0

SAN JUAN RIVER BASIN

179

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 10...	1000	1790	15.5	--	2080	10100
NOV 27...	1200	2370	3.0	49	650	4160
MAR 18...	1230	4280	10.0	58	4860	56200
MAY 22...	1145	6610	13.0	66	1150	20500
JUN 19...	0815	8270	16.5	--	502	11200
JUL 29...	1100	2440	22.0	--	853	5620
AUG 27...	1150	1320	22.5	--	120	428
SEP 03...	1145	1200	22.0	--	4	13

COLORADO RIVER MAIN STEM

09379900 LAKE POWELL AT GLEN CANYON DAM, AZ

LOCATION.--Lat 36°56'12", long 111°29'00", in sec.24, T.41 N., R.8 E., Coconino County, Hydrologic Unit 14070006 at Glen Canyon Dam on Colorado River, 900 ft upstream from bridge on U.S. Highway 89, 1.4 mi downstream from Wahweap Creek, 2 mi northwest of Page, and 12 mi downstream from Utah-Arizona State line.

DRAINAGE AREA.--111,700 mi², approximately, including 3,959 mi² in Great Divide Basin in southern Wyoming, which noncontributing.

PERIOD OF RECORD.--March 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Sept. 1, 1964, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete-arch gravity dam; storage began Mar. 13, 1963; dam completed September 1963. Total capacity, 27,000,000 acre-ft, consisting of the following: Dead storage, 1,998,000 acre-ft below elevation 3,370 ft--sill of outlet gates usable contents, 25,002,000 acre-ft between elevations 3,370 ft and 3,700 ft--top of conservation pool. Reservoir is used for power development, to provide storage replacement for upstream irrigation development, and to meet downstream requirements under the Colorado River Compact of 1922. Figures given herein represent usable contents; prior to Oct. 1, 1968, figures of total contents were published (prior to sealing of diversion tunnel July 7, 1965, all storage was usable).

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES (at 2400) FOR PERIOD OF RECORD.--Maximum contents, 26,373,000 acre-ft July 14, 1983, elevation, 3,708.34 ft; minimum since power pool level was reached (Aug. 16, 1964), 4,166,000 acre-ft Mar. 18, 1965, elevation, 3,490.76 ft.

EXTREMES (at 2400) FOR CURRENT YEAR.--Maximum contents, 25,020,000 acre-ft July 1, elevation, 3,700.12 ft; minimum, 21,160,000 acre-ft Mar. 12, elevation, 3,674.82 ft.

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

3,674	21,043,000	3,695	24,204,000
3,680	21,916,000	3,700	25,002,000
3,685	22,662,000	3,701	25,164,000
3,690	23,424,000		

RESERVOIR STORAGE, IN THOUSANDS OF ACRE-FEET, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24328	23920	23280	22605	21958	21326	21413	22667	24326	25020	24520	23491
2	24311	23884	23263	22585	21927	21304	21420	22718	24356	25014	24496	23446
3	24285	23869	23245	22561	21888	21274	21428	22779	24369	25007	24477	23409
4	24266	23855	23225	22540	21858	21258	21425	22829	24404	24986	24460	23363
5	24261	23833	23205	22515	21834	21234	21425	22900	24418	24977	24429	23322
6	24247	23808	23187	22486	21810	21210	21435	22991	24448	24943	24409	23282
7	24228	23789	23170	22468	21784	21193	21445	23090	24491	24941	24379	23257
8	24214	23770	23138	22438	21758	21180	21455	23191	24534	24922	24350	23220
9	24200	23750	23118	22423	21744	21174	21471	23299	24589	24899	24330	23185
10	24181	23727	23093	22404	21722	21167	21500	23391	24657	24886	24285	23150
11	24157	23705	23072	22387	21700	21164	21534	23505	24740	24859	24254	23142
12	24140	23688	23043	22363	21681	21160	21575	23607	24816	24832	24217	23099
13	24116	23658	23035	22344	21661	21167	21611	23711	24880	24827	24183	23072
14	24099	23643	23011	22322	21640	21169	21655	23803	24919	24805	24149	23063
15	24074	23624	22990	22296	21623	21170	21702	23887	24948	24774	24105	23026
16	24061	23604	22965	22272	21602	21182	21761	23956	24972	24740	24068	23000
17	24030	23582	22945	22256	21583	21197	21828	23989	24996	24728	24041	22977
18	24030	23565	22924	22228	21563	21208	21900	24008	25002	24704	23999	22961
19	24049	23542	22901	22202	21538	21236	21958	24025	25009	24680	23958	22962
20	24068	23524	22880	22179	21519	21244	22033	24030	25017	24659	23933	22944
21	24090	23505	22854	22162	21509	21267	22092	24050	25015	24649	23897	22932
22	24099	23482	22833	22149	21487	21271	22165	24065	25009	24657	23864	22918
23	24077	23454	22809	22130	21462	21288	22231	24083	25012	24649	23834	22903
24	24063	23425	22786	22113	21438	21303	22298	24099	25007	24641	23803	22883
25	24038	23409	22760	22098	21416	21307	22348	24118	24991	24648	23760	22863
26	24014	23391	22736	22081	21397	21304	22405	24131	25007	24630	23722	22848
27	24003	23365	22717	22060	21375	21345	22447	24154	25004	24614	23697	22822
28	23981	23338	22691	22044	21348	21361	22464	24184	25012	24597	23657	22810
29	23967	23322	22667	22024	---	21372	22542	24213	25017	24582	23621	22788
30	23947	23300	22649	22007	---	21383	22599	24249	25019	24553	23575	22760
31	23934	---	22625	21989	---	21399	---	24295	---	24539	23538	---
MAX	24328	23920	23280	22605	21958	21399	22599	24295	25019	25020	24520	23491
MIN	23934	23300	22625	21989	21348	21160	21413	22667	24326	24539	23538	22760
(#)	3693.29	3689.20	3684.76	3680.50	3676.12	3676.47	3684.59	3695.58	3700.11	3697.12	3690.74	3685.66
(*)	-413	-634	-675	-636	-641	+51	+1200	+1696	+724	-480	-1001	-778

CAL YR 1984 (*) -72

WTR YR 1985 (*) -1587

(#) Elevation, in feet, at end of month.

(*) Change in contents, in thousands of acre-feet.

KANAB CREEK BASIN

181

09403600 KANAB CREEK NEAR KANAB, UT

LOCATION.--Lat 37°06'02", long 112°32'50", in NE1/4NE1/4SW1/4 sec.5, T.43 S., R.6 W., Kane County, Hydrologic Unit 15010003, at upstream edge of left bridge pier on U.S. Highway 89, 300 ft upstream from Tiny Canyon and 3.5 mi north of Kanab.

DRAINAGE AREA.--198 mi².

PERIOD OF RECORD.--July 1959 to September 1968 (peaks only). January 1979 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,060 ft from topographic map. A crest-stage gage was in operation at this site from July 22, 1959 to Sept. 30, 1968 at different datum.

REMARKS.--Records poor. Estimated daily discharges Oct. 1-3, Nov. 27-Dec. 10, Dec. 16-Jan. 7, Jan. 13-Feb. 11, Mar. 12, 13, 19, 20, 27-Apr. 3, June 28-July 3, July 5, Aug. 20. No diversion above station for irrigation.

AVERAGE DISCHARGE.--6 years, 17.4 ft³/s, 12,610 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,130 ft³/s Aug. 20, 1984, maximum gage height, 8.50 ft Aug. 20, 1984; minimum recorded, 0.90 ft³/s June 23, 26, 29, 1983.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge recorded by crest-stage gage, 3,030 ft³/s Sept. 8, 1961, gage height, 19.80 ft at different datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 19	2130	*376	*5.80	No other peak greater than base discharge.			

Minimum discharge, 3.0 ft³/s Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e9.0	8.7	e11	e11	e12	14	e65	12	9.4	e7.8	8.0	10
2	e9.0	7.6	e14	e11	e12	13	e43	12	9.2	e7.8	7.7	8.5
3	e8.9	8.8	e13	e11	e13	14	e38	11	8.9	e7.6	6.6	8.5
4	8.8	7.5	e13	e12	e13	16	37	11	7.7	e7.3	6.9	9.7
5	8.8	7.8	e12	e13	e14	16	34	10	7.7	e6.6	6.8	8.4
6	8.4	8.7	e12	e14	e14	17	34	9.1	7.6	6.5	7.4	8.5
7	6.5	8.9	e12	e16	e14	18	34	8.1	7.2	6.3	8.1	8.1
8	9.1	9.0	e12	19	e15	40	33	8.2	6.6	6.6	9.3	9.1
9	6.4	12	e12	21	e16	41	34	8.2	6.2	6.3	9.3	8.6
10	8.0	16	e12	19	e15	35	35	7.9	6.1	7.0	9.2	9.5
11	7.5	14	13	19	e16	29	33	7.1	6.1	7.3	9.5	9.5
12	9.5	13	13	15	17	e29	30	7.2	5.6	7.7	10	10
13	8.8	14	12	e15	16	e29	30	7.5	6.0	7.7	9.1	8.6
14	8.7	12	13	e15	14	30	28	8.4	6.0	7.3	9.6	8.6
15	9.0	13	13	e15	14	33	28	9.1	6.0	7.7	9.1	7.9
16	8.8	12	e11	e16	14	33	26	7.9	5.8	8.0	8.5	9.2
17	9.9	13	e9.0	e16	14	33	27	9.0	6.0	7.7	8.7	8.3
18	9.6	15	e12	e16	14	33	26	9.5	6.3	8.4	9.7	9.8
19	11	13	e12	e16	14	e50	27	9.3	5.9	14	9.9	10
20	10	18	e12	e16	14	e30	27	7.6	5.8	8.4	e10	10
21	7.5	12	e12	e17	12	29	29	7.4	7.0	8.0	9.8	11
22	10	14	e11	e17	13	31	24	8.0	6.9	8.0	9.7	10
23	9.2	14	e10	e17	12	31	24	7.7	6.3	7.7	10	9.9
24	9.3	14	e11	e17	13	31	20	8.1	6.0	8.0	9.8	9.0
25	7.7	14	e12	e17	12	31	17	8.5	5.4	8.0	8.9	8.5
26	7.0	14	e14	e17	12	33	15	8.6	5.5	8.0	9.4	9.6
27	6.5	e14	e12	e17	16	e35	14	8.2	7.1	8.0	9.3	9.6
28	9.0	e13	e12	e17	16	e50	15	8.3	e7.2	8.0	9.2	8.0
29	9.0	e12	e11	e16	---	e46	13	8.5	e7.4	8.0	9.8	7.8
30	7.1	e11	e11	e15	---	e45	12	8.8	e7.6	7.7	9.1	8.0
31	10	---	e11	e14	---	e60	---	8.7	---	7.7	9.7	---
TOTAL	268.0	364.0	370.0	487	391	975	852	270.9	202.5	241.1	278.1	272.2
MEAN	8.65	12.1	11.9	15.7	14.0	31.5	28.4	8.74	6.75	7.78	8.97	9.07
MAX	11	18	14	21	17	60	65	12	9.4	14	10	11
MIN	6.4	7.5	9.0	11	12	13	12	7.1	5.4	6.3	6.6	7.8
ACFT	532	722	734	966	776	1930	1690	537	402	478	552	540

CAL YR 1984	TOTAL	4554.6	MEAN	12.4	MAX	100	MIN	3.6	ACFT	9030
WTR YR 1985	TOTAL	4971.8	MEAN	13.6	MAX	65	MIN	5.4	ACFT	9860

e Estimated.

VIRGIN RIVER BASIN

09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UT

LOCATION.--Lat 37°20'19", long 112°36'13", in SE1/4NE1/4NW1/4 sec.14, T.40 S., R.7 W., Kane County, Hydrologic Unit 15010008, on right bank 50 ft downstream from Lydia's Creek, and 1.0 mi north of the town of Glendale on U.S. Highway 89.

DRAINAGE AREA.--69.2 mi².

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder and artificial concrete control. Altitude of gage is 5,900 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. A few small diversions above station.

AVERAGE DISCHARGE.--19 years, 21.6 ft³/s, 15,650 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 640 ft³/s July 27, 1976, gage height, 4.14 ft; minimum, 3.2 ft³/s Aug. 12, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 1, 3	2200	*48	*1.68				
Minimum, 3.2 ft ³ /s Aug. 12.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	18	20	18	21	34	27	20	e10	10	8.1
2	15	16	20	20	19	21	37	27	18	e9.9	9.7	7.6
3	15	16	20	20	20	20	41	27	18	e9.7	9.3	8.7
4	15	16	20	20	19	21	41	27	19	e9.3	8.6	9.9
5	15	16	20	20	e19	21	39	27	18	e8.8	7.1	9.8
6	15	16	20	20	e19	21	39	27	17	8.5	6.4	9.6
7	15	16	19	21	e19	20	38	26	15	e8.2	7.5	9.7
8	14	17	20	22	19	20	38	26	15	e8.1	6.6	9.3
9	12	18	20	21	20	21	38	25	15	e8.2	6.0	8.8
10	12	18	21	21	19	32	38	26	e14	e8.3	5.8	8.7
11	12	18	21	21	19	31	38	27	e14	8.4	5.6	8.6
12	23	18	21	20	20	30	37	27	e14	8.4	4.9	9.0
13	16	19	18	20	21	25	36	27	e13	8.4	4.3	8.6
14	17	19	17	21	21	26	35	26	e13	e8.3	5.8	6.9
15	16	18	21	21	22	29	34	25	e13	e8.2	5.8	6.9
16	16	18	20	20	22	27	32	24	e12	e8.1	5.8	7.0
17	18	17	20	20	23	28	31	23	e12	e8.0	5.9	7.5
18	19	16	20	21	23	28	31	22	e12	e19	6.0	11
19	18	16	21	21	23	33	32	23	e12	e24	5.7	12
20	18	17	22	22	23	32	32	22	e12	e21	5.8	9.3
21	18	17	21	22	22	30	38	22	e13	19	6.1	9.1
22	17	18	20	22	21	28	35	23	e14	18	5.8	9.5
23	16	18	21	21	21	26	32	23	e13	16	6.9	11
24	16	19	20	21	20	26	31	22	e11	15	6.6	8.7
25	16	19	20	20	21	26	31	20	e10	12	6.5	8.3
26	16	18	20	20	22	26	31	19	e10	12	7.0	8.2
27	16	18	22	20	21	32	29	18	e10	11	6.5	8.5
28	16	18	22	18	22	35	29	18	e10	11	6.1	8.6
29	16	18	22	19	---	31	29	18	e11	13	6.1	8.5
30	16	18	21	e17	---	28	28	18	e11	13	7.0	9.1
31	16	---	21	e17	---	31	---	22	---	11	7.7	---
TOTAL	494	522	629	629	578	826	1034	734	409	361.8	204.9	266.5
MEAN	15.9	17.4	20.3	20.3	20.6	26.6	34.5	23.7	13.6	11.7	6.61	8.88
MAX	23	19	22	22	23	35	41	27	20	24	10	12
MIN	12	16	17	17	18	20	28	18	10	8.0	4.3	6.9
ACFT	980	1040	1250	1250	1150	1640	2050	1460	811	718	406	529
CAL YR 1984	TOTAL	6604.5	MEAN	18.0	MAX	28	MIN	9.7	ACFT	13100		
WTR YR 1985	TOTAL	6688.2	MEAN	18.3	MAX	41	MIN	4.3	ACFT	13270		

e Estimated.

VIRGIN RIVER BASIN

183

09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UT

LOCATION.--Lat 37°12'35", long 112°58'40", in NW1/4SW1/4NW1/4 sec.22, T.41 S., R.10 W., Washington County, Hydrologic Unit 15010008, on right bank in Zion National Park, 0.2 mi downstream from point of diversion of Springdale Canal, 0.5 mi downstream from Pine Creek, and 1.9 mi northeast of Springdale.

DRAINAGE AREA.--344 mi².

PERIOD OF RECORD.--May 1913 to June 1914, June to November 1923, April to June, August and September 1925 (fragmentary), October 1925 to current year. Published as Zion Creek near Springdale 1913-14 (flow of Springdale Canal not included) and as Mukuntuweap River near Springdale 1923, 1925-32.

GAGE.--Water-stage recorder. Altitude of gage is 3,970 ft from topographic map. May 13, 1913 to June 30, 1914, nonrecording gage at site 3.2 mi downstream at different datum. June 6, 1923 to Dec. 14, 1949, nonrecording gages at several sites within 0.8 mi of present site at various datums.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Figures given herein include Springdale Canal, which diverts water in NW1/4NW1/4 sec.22, T.41 S., R.10 W., for irrigation in vicinity of Springdale. Diversion for irrigation of about 1,400 acres above station.

AVERAGE DISCHARGE.--60 years, 105 ft³/s, 76,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,150 ft³/s Dec. 6, 1966, gage height, 12.98 ft, from rating curve extended above 2,000 ft³/s on basis of drift measurement at gage height 6.7 ft, and a slope-area measurement at gage height 10.25 ft; minimum observed, 20 ft³/s July 31, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,050 ft³/s Apr. 12; minimum daily, 42 ft³/ Oct. 9-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	51	e54	e47	e44	77	200	505	153	e115	53	67
2	49	48	e55	e47	47	79	275	565	129	e113	52	71
3	47	50	e58	e48	63	73	340	589	123	e110	50	68
4	47	48	e55	e52	62	60	369	558	122	e104	49	70
5	44	48	e53	e58	58	68	417	493	117	e100	49	70
6	44	49	e55	e66	53	74	515	447	112	e100	49	69
7	43	49	e53	e73	57	64	581	412	107	e98	49	72
8	43	53	e58	e75	61	70	615	368	103	e90	49	69
9	42	58	e60	e71	65	79	682	360	98	e87	51	68
10	42	48	e59	e68	63	150	728	394	97	e102	51	67
11	42	53	e66	e62	58	124	709	344	94	109	65	67
12	171	55	e67	e64	60	117	710	304	91	106	76	67
13	60	54	55	e66	66	86	758	274	89	104	77	65
14	52	54	50	e65	68	88	744	253	89	99	78	66
15	49	52	60	e59	69	98	752	247	83	98	78	65
16	46	52	59	57	74	92	746	241	79	99	75	66
17	54	52	e51	55	77	91	695	230	79	100	75	65
18	54	50	e56	62	79	128	684	225	74	99	74	89
19	55	52	e58	63	78	167	583	215	71	e337	73	111
20	55	49	e58	64	90	126	541	204	e65	e214	71	76
21	58	47	e55	64	75	115	464	200	e62	e115	71	72
22	53	54	e49	67	72	109	440	195	e60	e105	70	70
23	51	57	e48	63	70	99	382	208	e61	e66	69	67
24	50	58	e48	64	64	114	394	182	e113	e63	70	65
25	52	78	e52	64	72	136	409	173	e111	e60	67	63
26	52	55	e59	64	72	144	356	164	e74	e57	108	44
27	53	44	e66	67	71	193	356	151	e117	e58	76	43
28	52	55	e63	60	76	238	390	153	e116	e83	69	44
29	52	e59	e59	64	---	135	435	166	e116	e169	67	43
30	51	e58	e52	56	---	124	473	133	e115	e91	65	44
31	51	---	e47	48	---	147	---	183	---	e57	65	---
TOTAL	1658	1590	1738	1903	1864	3465	15743	9134	2920	3308	2041	1983
MEAN	53.5	53.0	56.1	61.4	66.6	112	525	295	97.3	107	65.8	66.1
MAX	171	78	67	75	90	238	758	589	153	337	108	111
MIN	42	44	47	47	44	60	200	133	60	57	49	43
ACFT	3290	3150	3450	3770	3700	6870	31230	18120	5790	6560	4050	3930
CAL YR 1984	TOTAL	33548	MEAN	91.7	MAX	349	MIN	41	ACFT	66540		
WTR YR 1985	TOTAL	47347	MEAN	130	MAX	758	MIN	42	ACFT	93910		

e Estimated.

VIRGIN RIVER BASIN

09405900 NORTH CREEK NEAR VIRGIN, UT

LOCATION.--Lat 37°14'14", long 113°09'01", in SE1/4SW1/4NE1/4, sec. 12, T.41 S., R.13 W., Washington County, Hydrologic Unit 15010008, on left bank 30 ft upstream from Bonnie Reeder Memorial Bridge, 3.2 mi north of town of Virgin and State Highway 9.

DRAINAGE AREA.--110 mi².

PERIOD OF RECORD.--December 1984 to September 30, 1985.

GAGE.--Water-stage recorder. Altitude of gage is 3,680 ft from topographic map.

REMARKS.--Record good except for estimated daily discharges, which are poor. One diversion for irrigation above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 304 ft³/s, July 28, from rating curve extended above 100 ft³/s on basis of slope conveyance study, gage height, 6.52 ft; minimum daily, 0.27 ft³/s, July 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			3.7	6.1	e5.4	9.5	18	7.5	4.2	e.36	.68	2.2
2			3.0	5.0	5.7	8.8	24	6.4	2.6	e.35	1.0	1.0
3			2.9	4.7	5.6	8.5	30	5.2	1.7	e.33	1.2	.66
4			3.5	4.5	5.5	e7.8	31	5.0	1.3	e.30	1.1	.99
5			5.1	4.8	e5.4	6.2	29	4.8	1.2	e.30	1.2	1.1
6			4.8	4.9	e5.4	2.2	38	3.9	.91	e.33	1.0	.38
7			4.3	18	5.7	2.3	48	3.4	.48	e.40	.83	1.0
8			6.9	43	4.6	4.3	61	3.2	.67	e.32	.92	.89
9			11	18	5.2	7.3	103	2.7	.78	e.32	.95	.53
10			4.7	12	5.3	49	84	7.0	.50	e.31	.73	.78
11			16	12	4.9	24	74	3.5	e.96	e.30	.76	.90
12			15	8.9	5.1	18	66	2.7	e1.2	e.30	.68	.62
13			9.3	6.8	7.3	14	62	1.5	.34	e.28	.65	.92
14			4.2	6.6	9.3	9.7	54	2.3	e.40	e.30	.61	1.1
15			4.4	6.4	11	15	46	2.4	e.43	e.30	.61	.87
16			e4.4	6.3	15	8.5	39	2.1	e.48	3.4	.61	.84
17			5.0	5.9	15	8.1	29	3.0	e.44	.66	1.3	.89
18			5.9	7.7	16	20	37	3.8	e.42	1.7	1.1	6.0
19			13	9.7	14	53	46	3.4	e.38	22	.78	16
20			20	9.9	22	18	20	2.7	e.27	11	.60	1.9
21			8.5	8.3	16	13	18	2.9	e.33	1.5	.69	1.8
22			5.0	7.7	13	12	16	3.4	e.42	.71	.61	1.4
23			4.2	5.9	8.9	7.9	12	5.4	e.50	.53	.60	1.6
24			4.4	5.8	7.1	6.8	11	1.3	9.8	.52	.65	1.1
25			5.1	5.3	7.3	8.2	8.8	2.2	5.4	.57	.69	1.4
26			5.4	5.7	8.1	10	7.2	2.4	1.3	.32	.76	.98
27			58	7.2	7.5	22	6.6	2.2	.70	.33	.73	.78
28			62	7.3	8.9	27	6.1	2.0	e.30	4.5	.71	1.0
29			24	7.2	---	20	6.8	2.2	e.32	33	.59	1.2
30			13	6.5	---	17	7.6	1.8	e.40	3.3	.50	3.2
31			11	5.6	---	18	---	21	---	1.6	.63	---
TOTAL			347.7	273.7	250.2	456.1	1039.1	123.3	39.13	90.44	24.47	54.03
MEAN			11.2	8.83	8.94	14.7	34.6	3.98	1.30	2.92	.79	1.80
MAX			62	43	22	53	103	21	9.8	33	1.3	16
MIN			2.9	4.5	4.6	2.2	6.1	1.3	.27	.28	.50	.38
ACFT			690	543	496	905	2060	245	78	179	49	107

e Estimated.

VIRGIN RIVER BASIN

185

09406000 VIRGIN RIVER AT VIRGIN, UT

LOCATION (REVISED).--Lat 37°10'22", long 113°10'48", in SW1/4NW1/4 sec.23, T.41 S., R.12 W., Washington County, Hydrologic Unit 15010008, on right bank 1.0 mi east of Virgin and .25 mi downstream from North Creek.

DRAINAGE AREA.--934 mi².

PERIOD OF RECORD.--April 1909 to September 1971, October 1978 to current year. Fragmentary prior to 1926, monthly discharge published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1942-43(M), 1947-48(M). WSP 1633: 1921(M), 1950-51.

GAGE.--Water-stage recorder. Altitude of gage is 3,500 ft from topographic map. At present location July 18, 1985, from Oct. 1, 1978 to July 5, 1985 2 mi downstream on left bank and from Dec. 19, 1949 to September 1971, directly across on right bank at different datum. Prior to Dec. 19, 1949, nonrecording gages at several sites within 3 mi of present site at various datums.

REMARKS.--Records fair. Diversions for irrigation of about 2,800 acres above station.

AVERAGE DISCHARGE.--69 years, 208 ft³/s, 150,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,800 ft³/s Dec. 6, 1966, gage height, 18.00 ft from rating curve extended above 5,000 ft³/s on basis of one slope-area measurement and one float measurement; minimum observed, 22 ft³/s July 10, 1920 and June 11, 1921.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 19	unknown	*2,920	*11.89	No other peak greater than base discharge.			

Minimum daily discharge, 52 ft³/s July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	112	132	118	93	244	626	554	243	105	79	88
2	97	114	137	119	113	257	659	620	152	104	77	93
3	93	115	148	121	141	253	686	653	140	103	79	90
4	96	115	139	125	141	233	704	625	148	101	77	87
5	97	119	131	133	117	232	712	544	145	96	78	89
6	98	114	134	148	111	248	733	476	137	95	74	89
7	93	117	129	175	120	239	751	449	129	93	69	94
8	93	127	139	192	131	244	769	400	104	86	77	93
9	94	131	153	180	148	260	787	383	104	84	76	91
10	97	122	143	170	146	405	817	450	120	89	76	88
11	100	123	185	156	124	445	772	399	110	100	82	87
12	217	117	172	147	130	432	793	345	112	100	97	89
13	120	145	154	142	149	371	835	316	98	98	98	88
14	100	126	115	143	162	351	867	288	64	95	96	89
15	98	121	137	145	168	405	869	286	67	94	96	88
16	104	121	137	147	185	398	873	280	71	93	96	85
17	106	132	119	143	198	388	845	270	67	92	100	88
18	119	147	139	151	208	410	840	265	66	140	101	109
19	115	130	148	160	206	468	880	259	64	493	95	203
20	125	127	144	160	244	430	780	244	62	408	91	115
21	129	134	138	154	227	427	670	239	58	199	90	105
22	126	132	123	161	218	423	586	240	56	110	92	102
23	117	149	123	150	202	423	476	272	72	61	91	98
24	120	134	123	150	193	457	481	252	118	56	88	92
25	120	181	116	149	203	505	506	240	102	54	87	89
26	121	148	136	150	219	537	433	230	78	52	102	86
27	122	127	175	162	218	551	439	208	105	55	120	81
28	120	133	173	153	231	549	463	193	107	130	90	85
29	119	150	165	154	---	529	498	247	107	250	88	81
30	118	139	145	139	---	517	543	202	106	78	89	82
31	116	---	128	110	---	574	---	318	---	79	87	---
TOTAL	3463	3902	4380	4607	4746	12205	20693	10747	3112	3793	2738	2844
MEAN	112	130	141	149	170	394	690	347	104	122	88.3	94.8
MAX	217	181	185	192	244	574	880	653	243	493	120	203
MIN	73	112	115	110	93	232	433	193	56	52	69	81
ACFT	6870	7740	8690	9140	9410	24210	41040	21320	6170	7520	5430	5640
CAL YR 1984	TOTAL	56093	MEAN	153	MAX	620	MIN	62	ACFT	111300		
WTR YR 1985	TOTAL	77230	MEAN	212	MAX	880	MIN	52	ACFT	153200		

VIRGIN RIVER BASIN

09406150 LAVERKIN CREEK NEAR LAVERKIN, UT

LOCATION.--Lat 37°12'17", long 113°17'03", in NE1/4NE1/4SW1/4 sec. 23, T.41 S, R.13 W., Washington County, Hydrologic Unit 15010008, on left bank 1 mi west of LaVerkin, 0.25 mi upstream from confluence of LaVerkin Creek and Virgin River.

DRAINAGE AREA.--90 mi².

PERIOD OF RECORD.--December 1984 to September 1985.

GAGE.--Water-stage recorder. Altitude of gage is 3,040 ft from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 116 ft³/s Sept. 19, gage height 5.42 ft from rating curve extended above 60 ft³/s on basis of slope conveyance study; minimum daily discharge, 0.61 ft³/s Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	8.7	7.1	12	25	31	15	3.3	5.5	1.1
2			---	7.0	6.8	12	37	31	11	2.8	5.4	1.7
3			---	8.0	8.5	10	57	31	11	2.1	3.0	2.0
4			8.1	8.0	9.4	8.6	48	28	10	1.3	1.0	1.9
5			7.3	9.2	14	11	45	27	8.5	1.7	1.3	4.1
6			7.3	9.3	13	10	52	26	7.5	3.1	1.5	3.3
7			7.7	13	15	10	53	24	5.5	3.4	1.5	2.9
8			8.1	27	8.0	10	49	22	5.8	3.3	1.5	2.6
9			15	17	8.9	9.8	53	22	7.2	6.1	1.4	1.8
10			11	9.5	8.3	34	50	29	8.4	4.1	.92	1.7
11			8.3	9.3	8.4	27	52	24	7.1	27	1.2	1.6
12			8.1	9.6	11	21	46	22	7.1	5.3	2.2	1.3
13			8.2	8.2	11	15	43	21	6.3	3.2	2.8	1.3
14			4.5	9.3	12	12	43	18	5.5	3.7	3.2	1.0
15			6.5	9.9	11	e11	43	18	5.4	4.0	3.0	.61
16			7.0	8.8	e13	e11	41	17	5.2	4.1	3.0	1.3
17			6.4	9.3	e12	e13	35	15	5.2	3.9	2.8	2.4
18			9.3	11	e12	e20	46	15	5.3	13	2.4	3.5
19			9.0	11	e13	e34	55	14	4.6	e65	2.2	34
20			13	11	e15	20	38	18	4.2	e50	1.8	7.9
21			10	11	e14	15	34	18	3.0	e14	1.1	6.3
22			8.2	11	e13	13	33	17	2.3	6.3	1.2	5.0
23			8.2	9.6	e12	12	30	14	2.1	5.9	1.1	3.2
24			8.4	9.4	e12	14	26	13	9.4	4.8	1.2	2.0
25			8.5	9.4	e13	15	26	10	e72	4.9	1.2	2.2
26			8.9	9.4	12	13	29	11	e40	2.2	1.3	2.3
27			28	9.8	12	22	32	11	26	1.1	1.4	2.4
28			32	9.9	13	30	38	11	5.4	1.8	1.2	2.7
29			20	9.9	---	18	36	11	4.4	5.8	1.2	2.5
30			12	8.4	---	12	32	11	3.9	8.2	1.2	2.6
31			11	5.6	---	22	---	29	---	6.4	1.6	---
TOTAL			---	317.5	318.4	497.4	1227	609	314.3	271.8	61.32	109.21
MEAN			---	10.2	11.4	16.0	40.9	19.6	10.5	8.77	1.98	3.64
MAX			---	27	15	34	57	31	72	65	5.5	34
MIN			---	5.6	6.8	8.6	25	10	2.1	1.1	.92	.61
ACFT			---	630	632	987	2430	1210	623	539	122	217

e Estimated.

VIRGIN RIVER BASIN

187

09407000 ASH CREEK ABOVE TOQUERVILLE, UT

LOCATION.--Lat 37°16'00", long 113°16'43", in SE1/4SW1/4NE1/4 sec.35, T.40 S., R.15W., Washington County, Hydrologic Unit 15010008, on left bank approximately 1 mi upstream from Toquerville.

DRAINAGE AREA.--190 mi².

PERIOD OF RECORD.--October 1941 to September 1942, December 1984 to September 1985.

GAGE.--Water-stage recorder. Altitude of gage is 3,450 ft from topographic map. October 1941 to September 1942 at approximately the same site at different datum.

REMARKS.--Records poor.

COOPERATION.--Gage-height readings and discharge measurements for 1942 water year provided by Bureau of Reclamation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 54 ft³/s, Jan. 8, gage height, 5.75 ft; no flow for extended periods during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	.00	.00	e3.7	e8.0	e3.8	.00	.00	.00	.00
2			---	.00	.00	e5.1	e9.5	e3.4	.00	.00	.00	.00
3			---	.00	.00	e3.4	e9.9	e3.2	.00	.00	.00	.00
4			---	.00	.00	1.6	e8.4	e3.0	.00	.00	.00	.00
5			---	.00	.09	1.5	e7.0	e2.7	.00	.00	.00	.00
6			---	.00	.24	e1.2	e7.6	e2.5	.00	.00	.00	.00
7			---	.32	.88	e.71	e7.7	e2.4	.00	.00	.00	.00
8			---	13	.36	e1.2	e7.5	1.9	.00	.00	.00	.00
9			---	2.7	.40	e2.0	e7.7	1.9	.00	.00	.00	.00
10			4.3	.68	.33	e7.5	e7.6	2.0	.00	.00	.00	.00
11			.62	.02	.10	e7.0	e7.0	2.2	.00	.00	.00	.00
12			.02	.00	.09	e4.9	e5.5	1.8	.00	.00	.00	.00
13			.00	.00	.01	3.8	e5.2	1.5	.00	.00	.00	.00
14			.00	.00	.00	4.7	e5.1	e1.4	.00	.00	.00	.00
15			.00	.00	.00	5.1	e5.0	e1.3	.00	.00	.00	.00
16			.00	.00	.15	e5.2	e4.8	e1.2	.00	.00	.00	.00
17			.00	.00	2.5	e5.8	e4.2	e1.1	.00	.00	.00	.00
18			.00	.00	3.1	e7.2	e5.8	e1.0	.00	.00	.00	.00
19			.00	.00	2.3	e8.7	e5.3	e1.0	.00	.00	.00	.00
20			.21	.00	4.3	6.5	e4.5	e1.1	.00	.00	.00	.00
21			.02	.00	1.6	5.7	e3.9	e.90	.00	.00	.00	.00
22			.00	.00	1.0	6.2	e3.7	e.50	.00	.00	.00	.00
23			.00	.00	.85	6.9	e3.6	e.26	.00	.00	.00	.00
24			.00	.00	.40	6.5	e3.4	e.14	.00	.00	.00	.00
25			.00	.00	.91	5.8	e3.2	e.07	.00	.00	.00	.00
26			.00	.00	1.7	6.0	e3.5	e.04	.00	.00	.00	.00
27			1.9	.00	2.0	8.2	e4.0	e.02	.00	.00	.00	.00
28			2.7	.00	2.8	11	e4.6	e.00	.00	.00	.00	.00
29			1.5	.00	---	e7.0	e4.2	.00	.00	.00	.00	.00
30			.04	.00	---	e4.8	e3.9	.00	.00	.00	.00	.00
31			.00	.00	---	e6.0	---	.00	---	.00	.00	---
TOTAL			---	16.72	26.11	160.91	171.3	42.33	.00	.00	.00	.00
MEAN			---	.54	.93	5.19	5.71	1.37	.00	.00	.00	.00
MAX			---	13	4.3	11	9.9	3.8	.00	.00	.00	.00
MIN			---	.00	.00	.71	3.2	.00	.00	.00	.00	.00
ACFT			---	33	52	319	340	84	.00	.00	.00	.00

NOTE.--No record Mar. 29 to May 7.

e Estimated.

VIRGIN RIVER BASIN

09408000 LEEDS CREEK NEAR LEEDS, UT

LOCATION.--Lat 37°16'03", long 113°22'12", in SW1/4SE1/4NE1/4 sec.36, T.4U S., R.14 W., Washington County, Hydrologic Unit 15010008, on left bank 1,150 ft upstream from Leeds Ditch diversion, 2.1 mi north of Leeds, and 4.4 mi upstream from mouth.

DRAINAGE AREA.--15.5 mi².

PERIOD OF RECORD.--October 1915 to June 1920 (fragmentary) in reports of Geological Survey; October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,000 ft from topographic map. Prior to June 1920, at various sites and datums about 600 ft downstream; Oct. 28, 1964 to Aug. 20, 1967, water-stage recorder at site 1,000 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. One diversion above station for domestic use.

AVERAGE DISCHARGE.--21 years, 7.73 ft³/s, 5,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,710 ft³/s Aug. 6, 1967, gage height, 5.78 ft, site and datum then in use; minimum recorded, 0.23 ft³/s Jan. 3, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 12, 1964, reached a stage of 6.00 ft former site and datum, discharge 2,980 ft³/s from slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 31	1000	*12	*1.74				

Minimum daily, 3.0 ft³/s Sept. 15-17, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.5	3.5	3.9	e3.9	5.4	5.4	7.5	10	8.2	4.9	3.3
2	3.3	3.5	3.5	4.2	e3.9	5.5	5.4	7.5	10	8.2	4.7	3.3
3	3.3	3.5	3.5	4.8	e4.7	5.4	5.5	7.6	11	8.0	4.7	3.3
4	3.4	3.5	3.5	3.9	e5.5	5.3	5.6	7.7	11	7.8	4.6	3.4
5	3.2	3.5	3.5	3.8	e4.8	5.2	5.7	7.8	10	7.6	4.5	3.5
6	3.2	3.5	3.5	3.8	e3.9	5.1	5.9	8.0	10	7.6	4.5	3.4
7	3.2	3.5	3.5	4.8	e4.3	5.1	6.3	8.0	10	7.5	4.4	3.5
8	3.2	3.6	3.9	5.8	4.8	5.1	6.6	8.2	10	7.3	4.4	3.4
9	3.1	3.5	3.6	4.4	4.4	5.1	6.9	8.2	10	7.3	4.3	3.4
10	3.1	3.5	3.6	4.2	4.2	6.2	7.0	8.4	10	7.2	4.2	3.2
11	3.3	3.5	4.0	4.2	4.1	5.9	7.1	8.4	11	7.2	4.1	3.2
12	4.2	3.5	3.8	4.1	4.2	5.5	7.2	8.4	11	7.0	4.0	3.2
13	3.4	3.5	3.6	4.2	4.2	5.3	7.2	8.6	10	6.8	4.0	3.2
14	3.4	3.5	3.6	4.4	4.3	5.3	7.2	8.6	10	6.6	4.0	3.1
15	3.4	3.5	3.6	4.1	4.6	5.3	7.2	8.6	10	6.4	4.0	3.0
16	3.5	3.5	3.8	4.1	5.1	5.3	7.3	8.6	10	6.4	3.9	3.0
17	3.6	3.5	4.1	4.2	5.7	5.3	7.3	8.6	10	6.4	3.9	3.0
18	3.6	3.5	3.7	4.3	5.8	5.3	8.2	8.5	10	6.5	3.9	3.4
19	3.6	3.5	4.0	4.4	5.7	5.6	8.2	8.5	9.8	6.5	3.8	3.6
20	3.7	3.5	4.1	4.6	6.0	5.4	8.2	8.5	9.8	6.5	3.8	3.3
21	3.6	3.5	3.6	4.6	5.4	5.4	8.1	8.7	9.7	6.4	3.8	3.2
22	3.6	3.5	3.7	4.7	5.3	5.4	8.0	8.7	9.6	6.2	3.7	3.1
23	3.6	3.7	3.7	4.5	5.3	5.4	7.8	8.6	9.5	6.0	3.5	3.1
24	3.6	3.7	3.7	4.5	5.3	5.4	7.7	8.7	10	5.7	3.5	3.1
25	3.6	4.1	3.6	4.5	5.3	5.4	7.9	8.8	9.6	5.6	3.4	3.1
26	3.6	3.6	3.7	4.5	5.3	5.4	7.8	8.8	9.3	5.5	3.5	3.0
27	3.5	3.6	5.3	4.6	5.3	5.5	7.7	8.9	8.7	5.3	3.4	3.1
28	3.5	3.5	5.2	4.5	5.4	5.7	7.7	9.1	8.5	5.3	3.5	3.1
29	3.5	3.5	4.3	4.5	---	5.4	7.6	9.3	8.4	5.4	3.4	3.1
30	3.5	3.5	4.1	4.4	---	5.4	7.5	9.5	8.3	5.2	3.3	3.1
31	3.5	---	3.9	e4.2	---	5.4	---	10	---	5.0	3.3	---
TOTAL	106.8	106.3	118.7	135.7	136.7	167.4	213.2	263.3	295.2	204.6	122.9	96.7
MEAN	3.45	3.54	3.83	4.38	4.88	5.40	7.11	8.49	9.84	6.60	3.96	3.22
MAX	4.2	4.1	5.3	5.8	6.0	6.2	8.2	10	11	8.2	4.9	3.6
MIN	3.0	3.5	3.5	3.8	3.9	5.1	5.4	7.5	8.3	5.0	3.3	3.0
ACFT	212	211	235	269	271	332	423	522	586	406	244	192

CAL YR 1984	TOTAL	1644.8	MEAN	4.49	MAX	7.8	MIN	2.8	ACFT	3260
WTR YR 1985	TOTAL	1967.5	MEAN	5.39	MAX	11	MIN	3.0	ACFT	3900

e Estimated.

VIRGIN RIVER BASIN

189

09408150 VIRGIN RIVER NEAR HURRICANE, UT

LOCATION.--Lat 37°09'45", long 113°23'42", in NE1/4NE1/4SW1/4 sec.2, T.42 S., R.14 W., Washington County, Hydrologic Unit 15010008, on left bank at downstream side of bridge on State Highway 17, 1.8 mi downstream from Quail Creek and 6.2 mi west of Hurricane.

DRAINAGE AREA.--1,499 mi².

PERIOD OF RECORD.--March 1967 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 2,760 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Beginning in June 1985 flow is diverted from the river into a pipeline, at a point approximately 20 miles upstream, into Quail Creek Reservoir, an offstream site, located about 1.0 mile above the gage, capacity 40,000 acre-feet.

AVERAGE DISCHARGE.--18 years, 246 ft³/s, 178,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft³/s Mar. 5, 1978, gage height, 16.28 ft; minimum, 23 ft³/s Aug. 22, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1909, 17.34 ft Dec. 6, 1966, from floodmarks; discharge, 20,100 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 20	0030	*2,700	*5.38	No other peak greater than base discharge.			
Minimum daily discharge, 68 ft ³ /s June 20.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	e155	146	e160	145	190	330	405	174	e83	90	81
2	93	e150	145	e150	168	197	395	441	88	e89	91	81
3	104	e140	148	e154	201	197	511	462	96	e92	89	81
4	128	e145	151	e158	238	190	583	431	103	e86	91	79
5	116	e147	155	e162	215	173	559	367	98	e87	91	79
6	122	e147	157	177	e180	167	668	421	93	86	91	79
7	121	e145	157	214	e185	160	759	392	94	85	91	79
8	114	e143	157	361	e195	153	830	313	88	86	91	79
9	139	e141	193	264	e198	160	895	287	87	86	91	78
10	122	144	170	226	e190	284	982	343	91	85	90	78
11	127	142	282	224	e159	316	979	242	179	109	89	77
12	e250	135	295	201	173	281	892	158	114	94	88	77
13	e255	127	296	167	187	300	932	117	90	90	87	75
14	e185	161	181	155	194	253	901	148	95	85	87	75
15	e145	152	207	162	187	284	872	153	97	85	87	76
16	e131	140	214	164	200	258	876	236	95	85	87	74
17	e140	144	188	180	218	242	820	222	92	85	87	73
18	e142	177	204	177	230	243	793	212	e87	85	88	74
19	e138	269	226	180	214	515	821	195	e72	144	87	125
20	e148	231	358	178	234	379	652	177	e68	565	87	76
21	e160	171	223	236	266	326	574	150	e72	249	86	78
22	e163	161	188	276	241	324	509	111	e73	92	85	78
23	e160	223	171	225	245	242	424	128	e93	78	85	82
24	e159	179	173	207	194	226	372	132	e140	87	84	82
25	e158	245	172	204	184	250	370	103	e150	93	84	83
26	e158	162	156	200	190	293	345	127	e72	91	81	76
27	e156	128	283	187	201	320	341	106	e75	91	78	75
28	e153	234	326	185	194	477	360	105	e78	91	79	76
29	e151	145	253	191	---	372	376	117	e74	272	81	74
30	e152	144	e212	198	---	289	395	122	e78	92	82	73
31	e158	---	e185	171	---	311	---	176	---	83	82	---
TOTAL	4535	4927	6372	6094	5626	8372	19116	7099	2906	3611	2687	2373
MEAN	146	164	206	197	201	270	637	229	96.9	116	86.7	79.1
MAX	255	269	358	361	266	515	982	462	179	565	91	125
MIN	87	127	145	150	145	153	330	103	68	78	78	73
ACFT	9000	9770	12640	12090	11160	16610	37920	14080	5760	7160	5330	4710

CAL YR 1984	TOTAL	70544	MEAN	193	MAX	1300	MIN	66	ACFT	139900
WTR YR 1985	TOTAL	73718	MEAN	202	MAX	982	MIN	68	ACFT	146200

e Estimated.

VIRGIN RIVER BASIN

09408195 FORT PIERCE WASH NEAR ST. GEORGE, UT

LOCATION.--Lat 37°00'03", long 113°28'05", in SE1/4NE1/2SW1/4 sec.31, T.43S, R.14W.,, Washington County, Hydrologic Unit 15010009, on left bank upstream of road crossing, and approximately 10 mi southeast of St. George, Ut.

DRAINAGE AREA.--700 mi².

PERIOD OF RECORD.--September 1984 to September 1985.

GAGE.--Water-stage recorder. Altitude of gage is 2,800 ft from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 394 ft³/s Oct. 12, gage height 6.29 ft; no flow for extended periods during year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.00	.11	.12	e.05	.05	.08	.05	.00	.00	e.00	.00
2	.06	.00	.11	.11	.11	.06	.09	.03	.00	.00	e.00	.00
3	.06	.00	.11	.11	.11	.08	.09	.03	.00	.00	e.00	.00
4	.05	.00	.11	.11	.09	.08	.08	.05	.00	.00	e.00	.00
5	.04	.00	.09	.12	e.01	.08	.08	.04	.00	.00	.00	.00
6	.03	.00	.08	.11	e.01	.08	.08	.01	.00	.00	.00	.00
7	.02	.00	.10	.41	e.03	.08	.07	.00	.00	.00	.00	.00
8	.03	.00	.11	.69	.07	.07	.07	.00	.00	.00	.00	.00
9	.03	.00	.06	.20	.07	.04	.08	.00	.00	.00	.00	.00
10	.02	.00	.10	.11	.05	.07	.08	.03	.00	.00	.00	.00
11	.06	.00	.21	.11	.07	.06	.08	.02	.00	.00	.00	.00
12	24	.00	.11	.13	.06	.05	.06	.00	.00	.00	.00	.00
13	.08	.00	.36	.13	.06	.04	.07	.00	.00	.00	.00	e.00
14	.06	.00	.11	.12	.05	.08	.07	.00	.00	.00	.00	e.00
15	.06	.00	.11	.12	.06	.08	.07	.00	.00	.00	.00	e.00
16	.06	.00	.28	.14	.06	.06	.08	.00	.00	.00	.00	.00
17	.04	.00	.11	.13	.06	.07	.08	.00	.00	.00	.00	.00
18	.06	.00	.11	.14	.05	.10	.11	.00	.00	e.10	.00	.00
19	.06	.00	.11	.11	.06	.39	.09	.00	.00	e.03	.00	.00
20	.06	.00	.62	.11	.08	.07	.11	.00	.00	e.10	.00	.00
21	.04	.00	.13	.11	.05	.08	.08	.00	.00	e.00	.00	.00
22	.03	.00	.13	.11	.05	.10	.07	.00	.00	e.00	.00	.00
23	.04	.00	.13	.11	.04	.09	.07	.00	.00	e.00	.00	.00
24	.07	.04	.14	.10	.06	.09	.08	.00	.09	e.00	.00	.00
25	.06	.34	.12	.06	.06	.08	.11	.00	.11	e.00	.00	.00
26	.00	.03	.13	.07	.05	.10	.09	.00	.00	e.00	.00	.00
27	.00	.00	.54	.10	.05	.11	.07	.00	.00	e.00	.00	.00
28	.00	.00	.26	.12	.04	.11	.06	.00	.00	e.00	.00	.00
29	.00	.00	.11	.17	---	.11	.06	.00	.00	e.10	.00	.00
30	.00	.06	.11	.12	---	.10	.06	.00	.00	e.05	.00	.00
31	.00	---	.11	.11	---	.09	---	.00	---	e.00	.00	---
TOTAL	25.18	.47	5.02	4.51	1.61	2.75	2.37	.24	.20	.38	.00	.00
MEAN	.81	.02	.16	.15	.06	.09	.08	.01	.01	.01	.00	.00
MAX	24	.34	.62	.69	.11	.39	.11	.05	.11	.10	.00	.00
MIN	.00	.00	.06	.06	.01	.04	.06	.00	.00	.00	.00	.00
ACFT	50	.9	10.0	8.9	3.2	5.5	4.7	.5	.4	.7	.00	.00

WTR YR 1985 TOTAL 42.73 MEAN .12 MAX 24 MIN .00 ACFT 85

e Estimated.

VIRGIN RIVER BASIN

191

09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UT

LOCATION.--Lat 37°23'00" long 113°28'57", in NW1/4SE1/4NE1/4 sec.24, T.39 S., R.15 W., Washington County, Hydrologic Unit 15010008, in Dixie National Forest, on right bank 150 ft upstream from highway bridge, 0.6 mi downstream from Pine Valley Reservoir, 1.6 mi southeast of town of Pine Valley, and 2.5 mi upstream from Grass Valley Creek.

DRAINAGE AREA.--18.7 mi².

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,640 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow slightly regulated by Pine Valley Reservoir. No diversion above station.

AVERAGE DISCHARGE.--26 years, 10.5 ft³/s, 7,610 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 776 ft³/s Dec. 6, 1966, gage height, 6.85 ft; minimum, 0.31 ft³/s Mar. 30, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 15	2100	*48	*2.27	May 3	2200	48	2.27

Minimum discharge 1.3 ft³/s Jan. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.2	2.1	2.1	e1.6	2.7	6.1	27	13	6.3	4.3	3.0
2	2.5	2.1	2.1	2.1	e1.7	2.9	11	34	12	6.2	4.2	2.9
3	2.4	2.1	2.0	2.1	e1.8	2.8	16	40	12	6.2	4.2	2.8
4	2.3	2.1	2.0	2.2	e1.8	e2.6	18	45	11	6.0	4.1	3.1
5	2.1	2.1	2.0	2.6	e1.6	e2.7	17	38	11	5.9	4.0	3.1
6	2.1	2.1	1.9	2.9	e1.7	e3.5	21	34	11	5.9	3.9	3.0
7	2.1	2.1	1.9	2.9	e1.8	e3.0	24	32	10	5.8	3.9	3.0
8	2.1	2.4	2.2	2.7	e1.9	e2.8	24	29	9.8	5.6	3.9	2.9
9	2.1	2.1	2.0	2.1	e1.9	2.6	26	28	9.7	5.6	3.8	2.9
10	2.1	2.1	1.9	2.0	e1.8	4.5	29	28	9.4	5.8	3.7	2.9
11	2.3	2.1	2.1	2.0	e2.0	5.3	30	24	9.2	6.1	3.6	2.8
12	3.2	2.1	2.0	2.0	e2.1	4.4	32	22	8.9	5.6	3.6	2.7
13	2.5	2.1	1.9	2.1	e2.6	3.7	35	20	8.6	5.3	3.5	2.7
14	2.4	2.1	e1.8	2.0	e2.6	3.5	37	18	8.6	5.2	3.4	2.6
15	2.2	2.1	e1.8	2.0	e2.6	3.4	39	17	8.5	5.0	3.4	2.5
16	2.2	2.1	e1.8	2.0	2.5	3.2	37	17	8.3	5.0	3.3	2.5
17	2.5	2.1	e1.8	2.0	2.7	3.3	33	17	8.1	5.1	3.3	2.5
18	2.4	2.1	e1.8	2.1	2.8	3.6	30	18	8.0	6.4	3.3	3.4
19	2.4	2.1	e2.1	2.5	2.8	3.8	24	19	7.8	5.4	3.3	3.5
20	2.4	2.1	2.2	2.6	3.0	3.8	21	18	7.6	5.3	3.2	2.6
21	2.4	2.1	e2.0	2.7	2.7	3.9	18	19	7.4	5.7	3.3	2.5
22	2.4	2.1	2.0	2.6	3.2	3.9	16	18	7.3	5.6	3.2	2.4
23	2.3	e2.2	2.1	2.5	2.6	3.9	14	17	7.2	5.0	3.1	2.4
24	2.2	2.3	2.1	2.3	e2.5	4.1	16	17	7.9	4.7	3.0	2.4
25	2.3	e2.3	2.2	2.2	e2.5	4.9	16	17	8.1	4.6	3.0	2.4
26	2.2	e2.3	2.2	2.1	e2.5	4.9	13	16	7.4	4.5	3.4	2.4
27	2.2	e2.3	2.5	2.2	2.6	5.1	13	16	7.1	4.5	3.4	2.4
28	2.2	2.2	2.1	2.1	2.8	5.1	13	15	6.8	4.5	3.1	2.5
29	2.2	2.1	2.1	2.0	---	4.8	16	14	6.6	6.0	3.0	2.4
30	2.2	2.1	2.1	2.2	---	4.6	22	13	6.4	4.8	3.0	2.4
31	2.2	---	2.2	2.1	---	4.4	---	14	---	4.4	3.0	---
TOTAL	71.4	64.4	63.0	70.0	64.7	117.7	667.1	699	264.7	168.0	108.4	81.6
MEAN	2.30	2.15	2.03	2.26	2.31	3.80	22.2	22.5	8.82	5.42	3.50	2.72
MAX	3.2	2.4	2.5	2.9	3.2	5.3	39	45	15	6.4	4.3	3.5
MIN	2.1	2.1	1.8	2.0	1.6	2.6	6.1	13	6.4	4.4	3.0	2.4
ACFT	142	128	125	139	128	233	1320	1390	525	333	215	162

CAL YR 1984	TOTAL	1850.8	MEAN	5.06	MAX	23	MIN	1.8	ACFT	3670
WTR YR 1985	TOTAL	2440.0	MEAN	6.68	MAX	43	MIN	1.6	ACFT	4840

e Estimated.

VIRGIN RIVER BASIN

09408500 SANTA CLARA-PINTO DIVERSION NEAR PINTO, UT
(Transmountain diversion)

LOCATION.--Lat 37°28'04", long 113°28'21", in SW1/4SE1/4NW1/4 sec.19, T.38 S., R.14 W., Washington County, Hydrologic Unit 15010008, on right bank 0.2 mi downstream from outlet of diversion tunnel and 6 mi southeast of Pinto.

PERIOD OF RECORD.--October 1953 to September 1962 (monthly discharge only, October 1953 to September 1960), October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,820 ft from topographic map. Prior to September 1962, at site 600 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow at this station is seasonal occurring during the snowmelt period and heavy storm periods. This is a transmountain diversion from a tributary of Santa Clara River in Colorado River Basin to Pinto Creek in Escalante Valley in the Great Basin.

AVERAGE DISCHARGE.--25 years (1953-62, 1969-85), 3.72 ft³/s, 2,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 229 ft³/s May 24, 1983, gage height, 2.58 ft; no flow for part of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53 ft³/s Apr. 10, gage height, 1.84 ft; no flow for extended periods during year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	e.13	.00	.00	.00	13	11	1.8	.00	.00	.00
2	.00	.00	e.13	.00	.00	.00	17	16	1.6	.00	.00	.00
3	.00	.00	e.14	.00	.00	.00	27	21	1.7	.00	.00	.00
4	.00	.00	e.14	.00	.00	.00	32	20	1.5	.00	.00	.00
5	.00	.00	e.15	.00	.00	.00	35	17	1.5	.00	.00	.00
6	.00	.00	e.16	.00	.00	.00	36	15	1.6	.00	.00	.00
7	.00	.00	e.18	.00	.00	.00	38	14	.75	.00	.00	.00
8	.00	e.01	e.23	.00	.00	.00	37	13	.59	.00	.00	.00
9	.00	e.02	e.27	.00	.00	.00	41	11	.46	.00	.00	.00
10	.00	e.02	e.15	.00	.00	.65	45	13	.34	.00	.00	.00
11	.00	e.03	e.15	.00	.00	3.4	44	13	.20	.00	.00	.00
12	.00	e.04	e.14	.00	.00	1.7	39	11	.03	.00	.00	.00
13	.00	e.04	e.15	.00	.00	1.4	31	9.5	.00	.00	.00	.00
14	.00	e.05	e.03	.00	.00	1.3	28	8.6	.00	.00	.00	.00
15	.00	e.05	.00	.00	.00	1.4	27	7.9	.00	.00	.00	.00
16	.00	e.05	.00	.00	.00	1.9	27	6.8	.00	.00	.00	.00
17	.00	e.06	.00	.00	.00	2.1	25	6.6	.00	.00	.00	.00
18	.00	e.06	.00	.00	.00	1.8	25	7.3	.00	.00	.00	.00
19	.00	e.06	.00	.00	.00	2.4	20	7.1	.00	.00	.00	.00
20	.00	e.07	.00	.00	.00	1.6	17	3.7	.00	.00	.00	.00
21	.00	e.07	.00	.00	.00	1.5	14	2.1	.00	.00	.00	.00
22	.00	e.08	.00	.00	.00	1.4	11	3.4	.00	.65	.00	.00
23	.00	e.08	.00	.00	.00	1.2	9.3	3.4	.00	.81	.00	.00
24	.00	e.09	.00	.00	.00	2.0	9.0	4.8	.00	.35	.00	.00
25	.00	e.10	.00	.00	.00	5.6	10	5.4	.00	.03	.00	.00
26	.00	e.10	.00	.00	.00	6.6	11	3.5	.00	.00	.00	.00
27	.00	e.11	.00	.00	.00	7.5	9.2	2.1	.00	.00	.00	.00
28	.00	e.11	.00	.00	.00	3.7	8.4	1.9	.00	.00	.00	.00
29	.00	e.12	.00	.00	---	3.2	8.3	1.7	.00	.39	.00	.00
30	.00	e.12	.00	.00	---	4.9	9.5	1.4	.00	.60	.00	.00
31	.00	---	.00	.00	---	7.0	---	1.7	---	.01	.00	---
TOTAL	.00	1.54	2.15	.00	.00	64.25	703.7	263.9	12.07	2.84	.00	.00
MEAN	.00	.05	.07	.00	.00	2.07	23.5	8.51	.40	.09	.00	.00
MAX	.00	.12	.27	.00	.00	7.5	45	21	1.8	.81	.00	.00
MIN	.00	.00	.00	.00	.00	.00	8.3	1.4	.00	.00	.00	.00
ACFT	.00	3.1	4.3	.00	.00	127	1400	523	24	5.6	.00	.00
CAL YR 1984	TOTAL	1194.03	MEAN	3.26	MAX	32	MIN	.00	ACFT	2370		
WTR YR 1985	TOTAL	1050.45	MEAN	2.88	MAX	45	MIN	.00	ACFT	2080		

e Estimated.

VIRGIN RIVER BASIN

193

09409880 SANTA CLARA RIVER AT GUNLOCK, UT

LOCATION.--Lat 37°16'55", long 113°46'00", in SW1/4SW1/4NW1/4 sec.28, T.40 S., R.1/ W., Washington County, Hydrologic Unit 15010008, on right bank at downstream side of bridge on county road at Gunlock, 0.5 mi below tailrace of powerhouse.

DRAINAGE AREA.--271 mi².

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,628 ft from topographic map.

REMARKS.--Records good to May 1, except for estimated daily discharges, which are fair, and poor for the period May 1 - Sept. 30 due to channel work. Many diversions for irrigation above station. Flow regulated by several reservoirs and powerplant above station.

AVERAGE DISCHARGE.--16 years, 27.6 ft³/s, 20,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,810 ft³/s Feb. 14, 1980, gage height, 5.74 ft from rating curve extended above 1,580 ft³/s; no flow several days during 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 47 ft³/s Apr. 11, gage height, 3.21 ft; minimum daily, 1.3 ft³/s July 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	e11	14	e13	9.7	15	19	17	6.0	6.6	6.9	4.5
2	9.3	e11	15	e12	11	16	20	17	5.6	7.0	9.2	3.4
3	9.2	e11	14	e12	10	16	19	18	5.4	6.2	11	2.8
4	9.2	e11	13	e13	10	15	17	20	5.4	8.5	8.9	4.1
5	8.4	e11	14	e13	8.9	16	15	19	5.0	8.4	9.3	5.0
6	8.6	e11	14	e13	9.4	15	15	17	8.0	7.2	10	5.9
7	9.2	e15	14	e12	9.8	15	14	16	12	6.9	7.9	8.1
8	9.3	19	14	e12	9.7	16	13	17	13	7.0	5.9	7.5
9	8.9	20	13	e13	9.6	14	20	18	11	5.3	2.9	6.6
10	8.7	22	14	15	9.0	15	20	17	9.9	5.7	1.8	6.5
11	8.8	20	14	13	8.5	18	20	19	9.7	5.7	2.0	5.0
12	8.7	19	15	14	8.3	19	21	17	8.7	6.9	3.2	3.3
13	9.4	17	16	11	8.8	18	20	18	8.1	6.1	3.1	3.6
14	8.2	19	14	12	8.9	19	21	16	7.4	5.6	3.4	4.9
15	9.7	17	14	12	9.1	19	21	16	4.8	5.8	4.3	5.6
16	e12	18	14	11	9.5	18	19	15	3.1	7.3	4.8	5.1
17	e12	16	14	11	11	20	19	15	6.6	8.3	5.8	3.8
18	e12	18	13	12	13	21	19	14	2.1	8.3	5.6	4.7
19	e12	16	14	11	13	21	20	16	2.9	8.5	5.5	7.4
20	e12	18	14	11	17	21	19	16	5.4	7.6	3.0	7.7
21	e12	19	13	11	15	21	19	12	4.1	7.0	3.4	7.4
22	e12	16	14	12	19	20	19	11	2.3	7.7	4.1	5.9
23	e12	16	12	12	20	20	18	11	3.4	9.2	6.1	5.2
24	e12	17	12	11	17	17	17	11	4.7	8.6	4.5	5.1
25	e12	19	11	11	17	17	17	13	5.3	6.7	4.9	5.3
26	e12	21	12	11	15	17	18	13	5.9	1.4	5.7	5.4
27	e12	18	14	11	15	16	16	12	6.3	1.3	6.2	5.5
28	e12	16	13	12	15	18	17	8.3	5.8	4.7	7.4	5.1
29	e12	15	13	11	---	21	16	7.6	6.3	7.1	7.2	3.6
30	e12	15	14	11	---	21	17	6.5	6.5	5.9	5.0	3.0
31	e12	---	14	9.4	---	21	---	5.0	---	6.7	4.2	---
TOTAL	325.4	492	423	368.4	337.2	556	545	448.4	190.7	205.2	173.2	157.0
MEAN	10.5	16.4	13.6	11.9	12.0	17.9	18.2	14.5	6.36	6.62	5.59	5.23
MAX	12	22	16	15	20	21	21	20	13	9.2	11	8.1
MIN	7.8	11	11	9.4	8.3	14	13	5.0	2.1	1.3	1.8	2.8
ACFT	645	976	839	731	669	1100	1080	889	378	407	344	311
CAL YR 1984	TOTAL	5180.5	MEAN	14.2	MAX	86	MIN	3.1	ACFT	10280		
WTR YR 1985	TOTAL	4221.5	MEAN	11.6	MAX	22	MIN	1.3	ACFT	8370		

e Estimated.

VIRGIN RIVER BASIN

09410100 SANTA CLARA RIVER BELOW WINSOR DAM, NEAR SANTA CLARA, UT

LOCATION.--Lat 37°11'24", long 113°46'03", in SW1/4SW1/4NW1/4 sec.28, T.41 S., R.17 W., Washington County, Hydrologic Unit 15010008, on left bank 900 ft downstream from Winsor Dam, 0.6 mi northwest of Shivwits Indian Village, and 78.5 mi northwest of Santa Clara.

DRAINAGE AREA.--378 mi².

PERIOD OF RECORD.--December 1971 to current year.

REVISED RECORDS.--WRD UT-73-1: 1972(M).

GAGE.--Water-stage recorder. Altitude of gage is 3,210 ft from topographic map, prior to July 11, 1979 at several sites downstream at different datums.

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

AVERAGE DISCHARGE.--13 years, 30.1 ft³/s, 21,810 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,770 ft³/s Mar. 3, 1983, gage height, 6.07 ft from rating curve extended above 980 ft³/s on basis of slope-area measurement; no flow several days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29 ft³/s July 8, gage height, 1.49 ft; minimum daily, 0.1 ft³/s several days in October and November.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.7	e.10	e.30	e.27	e.20	20	18	e17	8.6	18	e20	9.8
2	e.94	e.10	e.30	e.27	e.20	20	18	e14	8.4	19	e20	9.8
3	e.94	e.10	e.30	e.27	e.20	20	18	e14	8.5	17	e20	9.6
4	e.94	e.10	e.30	e.27	e.20	20	18	e14	8.3	15	e20	10
5	e.94	e.10	e.30	e.27	e.20	20	17	e14	8.5	14	e20	10
6	e1.0	e.10	e.30	e.26	e.20	20	16	e16	8.4	14	e20	10
7	e1.2	e1.0	e.30	e.26	e.20	20	17	e16	7.8	18	e20	5.4
8	e1.3	e19	e.30	e3.2	e.20	20	20	e16	7.8	19	e19	4.4
9	e1.4	e17	e.30	e3.2	e.20	20	20	e16	8.0	18	e18	4.3
10	e1.6	e7.1	e.30	e3.2	e.20	20	20	e16	15	19	17	4.6
11	e2.4	e5.8	e.30	e1.0	e.20	19	19	e16	25	18	14	4.6
12	e2.4	e3.0	e.30	e.50	e.20	18	19	e16	24	17	12	4.5
13	e2.4	e2.1	e.30	e.43	e.20	18	19	e16	20	16	12	4.7
14	e2.1	e2.0	e.30	e.39	e.20	18	19	e15	17	17	12	6.3
15	e1.7	e2.0	e.29	e.35	e.20	18	19	e13	14	19	12	5.4
16	e1.4	e2.0	e.29	e.33	e.20	18	19	e10	12	19	12	4.5
17	e1.9	e1.8	e.29	e.33	e.20	18	e19	e10	10	19	12	4.5
18	e1.9	e1.4	e.29	e.29	e.20	18	e19	e10	14	20	12	6.1
19	e1.9	e.94	e.29	e.27	e.20	19	e19	e10	19	20	11	18
20	e1.4	e.65	e.29	e.26	e.20	18	e19	e9.3	18	19	11	26
21	e.60	e.40	e.29	e.25	e10	18	e19	8.9	18	19	11	26
22	e.17	e.31	e.29	e.23	e18	18	e19	8.9	18	19	11	26
23	e.10	e.30	e.28	e.22	e18	18	e19	8.5	18	20	10	26
24	e.10	e.30	e.28	e.22	e18	18	e19	8.8	19	20	10	20
25	e.10	e.30	e.28	e.21	e18	18	e19	8.6	20	20	10	4.8
26	e.10	e.30	e.28	e.21	e18	18	e19	8.8	19	21	10	5.6
27	e.10	e.30	e.27	e.20	20	19	e19	8.5	19	19	10	5.9
28	e.10	e.30	e.27	e.20	20	18	e19	8.1	19	20	9.8	5.8
29	e.10	e.30	e.27	e.20	---	18	e19	8.4	19	20	10	5.6
30	e.10	e.30	e.27	e.20	---	18	e19	8.3	19	20	9.8	5.6
31	e.10	---	e.27	e.20	---	18	---	8.6	---	20	9.9	---
TOTAL	33.13	69.50	8.99	17.96	144.00	581	562	372.7	450.3	573	425.5	293.8
MEAN	1.07	2.32	.29	.58	5.14	18.7	18.7	12.0	15.0	18.5	13.7	9.79
MAX	2.4	19	.30	3.2	20	20	20	17	25	21	20	26
MIN	.10	.10	.27	.20	.20	18	16	8.1	7.8	14	9.8	4.3
ACFT	66	138	18	36	286	1150	1110	739	893	1140	844	583
CAL YR 1984	TOTAL	6046.62	MEAN	16.5	MAX	88	MIN	.10	ACFT	11990		
WTR YR 1985	TOTAL	3531.88	MEAN	9.68	MAX	26	MIN	.10	ACFT	7010		

e Estimated.

VIRGIN RIVER BASIN

195

09413000 SANTA CLARA RIVER AT ST. GEORGE, UT

LOCATION.--Lat 37°04'26", long 113°34'56", in NE1/4NW1/4SW1/4 sec.6, T.43 S., R.15 W., on right bank 0.25 mi upstream from mouth and 2 mi south of St. George.

DRAINAGE AREA.--540 mi², approximately.

PERIOD OF RECORD.--October 1950 to September 1956. Re-established November 1984 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,560 ft from topographic map. October 1950 to September 1956, gage located 0.25 mi upstream from present site at different datum.

REMARKS.--Records fair. Flow regulated by reservoirs and many diversions for irrigation above station.

AVERAGE DISCHARGE.--6 years (1950-56), 8.82 ft³/s, 6,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,200 ft³/s Aug. 24, 1955, gage height, 10.02 ft from rating curve extended above 400 ft³/s on basis of indirect measurements at gage heights 7.31 and 9.48 ft, site and datum then in use; no flow at times in 1951, 1953, 1955-56.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 160 ft³/s Sept. 19, gage height, 3.04 ft from rating curve extended above 20 ft³/s on basis of slope conveyance study; minimum daily, 0.37 ft³/s June 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	7.1	6.8	3.8	9.5	25	7.5	6.9	9.0	13	6.0
2		---	6.2	6.7	3.9	9.6	18	5.3	10	9.2	6.0	4.2
3		---	6.0	6.9	3.9	14	15	5.5	9.0	8.8	5.3	4.5
4		---	5.8	8.0	4.0	13	13	10	11	9.2	4.2	8.3
5		---	5.5	7.2	4.0	12	14	6.7	13	7.9	7.4	9.3
6		---	5.5	6.4	3.9	11	11	3.8	8.4	3.9	8.5	8.0
7		---	5.2	9.0	3.6	6.6	7.0	4.7	6.8	6.7	5.6	7.8
8		---	5.2	13	3.7	11	7.0	6.4	1.8	9.1	4.6	7.4
9		---	4.8	8.3	5.0	11	7.1	7.4	6.1	8.1	5.0	5.5
10		---	3.9	5.4	5.1	10	5.3	12	5.1	9.0	4.3	5.8
11		---	4.6	5.2	4.8	5.5	4.2	6.6	4.7	8.2	5.6	6.2
12		---	3.5	5.0	5.3	4.4	5.8	5.2	6.0	8.5	6.7	7.3
13		---	2.8	4.9	5.3	5.4	6.0	5.0	7.5	6.9	5.7	11
14		---	3.5	4.9	5.1	8.4	4.8	4.2	4.9	7.5	4.5	7.6
15		---	4.8	4.9	5.0	10	5.1	4.2	1.1	10	4.3	6.0
16		---	6.3	5.2	5.1	13	7.3	5.4	4.2	9.0	7.5	5.6
17		---	4.9	5.2	5.4	18	10	7.4	7.1	9.2	6.1	6.7
18		---	4.9	4.5	5.4	16	15	6.8	6.5	12	5.8	10
19		3.5	6.1	3.2	5.1	19	12	4.4	4.9	12	4.6	31
20		2.1	10	3.2	4.3	20	18	5.0	5.0	13	4.6	5.8
21		1.4	5.6	4.2	5.6	19	17	5.7	3.5	12	4.3	4.7
22		2.5	5.0	5.2	9.4	21	13	5.0	.37	13	4.8	1.9
23		4.1	4.9	5.0	9.8	12	6.4	4.4	4.9	3.6	5.5	2.6
24		4.6	5.2	4.3	10	16	6.6	4.5	7.8	4.6	6.1	4.2
25		6.0	5.0	3.9	11	15	7.3	5.8	8.0	3.9	5.6	4.4
26		6.9	4.8	4.0	8.4	12	9.9	5.9	8.4	2.6	4.9	5.5
27		6.5	8.9	4.3	3.7	15	6.4	6.6	9.1	3.2	4.5	6.4
28		6.9	7.6	3.9	6.8	22	7.0	6.5	6.4	3.2	3.5	6.7
29		8.3	7.2	4.4	---	23	10	8.4	3.5	15	3.8	6.0
30		8.1	8.6	3.8	---	25	7.2	12	8.1	14	4.5	6.7
31		---	7.9	3.7	---	23	---	11	---	11	6.7	---
TOTAL		---	177.3	170.6	156.4	430.4	301.4	199.3	190.07	263.3	173.5	213.1
MEAN		---	5.72	5.50	5.59	13.9	10.0	6.43	6.34	8.49	5.60	7.10
MAX		---	10	13	11	25	25	12	13	15	13	31
MIN		---	2.8	3.2	3.6	4.4	4.2	3.8	.37	2.6	3.5	1.9
ACFT		---	352	338	310	854	598	395	377	522	344	423

VIRGIN RIVER BASIN

09413200 VIRGIN RIVER NEAR BLOOMINGTON, UT

LOCATION.--Lat 37°04'14", long 113°34'55", in SE1/4NW1/4 sec.6, T.4S S., R.15 W., Washington County, Hydrologic Unit 15010010, on left bank 2.5 mi south of St. George.

DRAINAGE AREA.--3,831 mi².

PERIOD OF RECORD.--September 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,530 ft from topographic map, prior to Sept. 19, 1978 at site 1.5 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 19,600 acres above station.

AVERAGE DISCHARGE.--8 years, 331 ft³/s, 239,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 10,000 ft³/s Feb. 15, 1980; minimum, 5.8 ft³/s Sept. 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,530 ft³/s Apr. 10, gage height, 5.17 ft; minimum discharge, 19 ft³/s June 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	163	163	240	e178	230	285	398	150	34	45	39
2	81	148	163	e207	e189	243	350	435	42	35	40	38
3	121	135	165	e209	e194	246	460	471	44	41	34	32
4	149	142	165	e211	e207	228	548	457	47	43	38	36
5	149	139	165	e212	e192	205	525	374	47	37	37	47
6	127	138	160	e252	e169	195	641	413	53	38	47	40
7	116	137	162	433	e176	182	760	395	44	38	49	49
8	120	119	163	327	e210	171	830	260	32	41	40	57
9	140	118	200	268	e228	172	923	374	35	32	37	47
10	69	124	190	259	e236	270	1020	313	30	33	32	49
11	83	121	230	246	e221	391	1050	250	76	52	35	53
12	448	127	265	e231	e210	314	987	158	93	35	33	56
13	275	122	253	e223	e208	262	1040	127	25	37	37	47
14	176	138	212	e232	e218	201	1020	112	28	31	39	49
15	145	127	207	e232	e222	225	981	129	31	34	35	44
16	142	122	231	e232	e236	236	969	196	30	34	38	53
17	152	131	219	e234	241	272	923	171	38	32	35	51
18	168	138	217	e225	245	288	937	157	36	64	28	59
19	150	138	219	e233	251	564	958	132	34	55	31	132
20	163	140	309	e232	263	435	834	128	34	481	36	78
21	174	122	255	e233	301	333	611	90	27	292	42	56
22	184	120	226	e237	244	302	543	80	34	79	38	53
23	182	153	214	e230	229	260	467	64	32	47	41	57
24	179	167	212	e223	215	246	385	83	35	39	40	51
25	165	212	214	e225	217	244	356	71	74	49	41	87
26	160	201	218	e220	224	242	334	69	46	47	33	53
27	160	160	314	e227	212	227	331	69	31	41	38	39
28	163	160	483	e227	224	468	355	63	32	39	30	59
29	155	165	399	e216	---	404	372	67	34	224	34	51
30	158	165	290	e214	---	249	387	71	32	81	39	58
31	160	---	261	e198	---	263	---	81	---	42	36	---
TOTAL	4887	4292	7144	7388	6160	8568	20180	6264	1326	2207	1158	1620
MEAN	158	143	230	238	220	276	673	202	44.2	71.2	37.4	54.0
MAX	448	212	483	433	301	564	1050	471	150	481	49	132
MIN	69	118	160	198	169	171	285	63	25	31	28	32
ACFT	9690	8510	14170	14650	12220	16990	40030	12420	2630	4380	2300	3210
CAL YR 1984	TOTAL	67158	MEAN	183	MAX	1530	MIN	26	ACFT	133200		
WTR YR 1985	TOTAL	71194	MEAN	195	MAX	1050	MIN	25	ACFT	141200		

e Estimated.

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ

LOCATION.--Lat 36°53'30", long 113°55'25", in SW1/4SW1/4 sec.4, T.40 N., R.15 W., Mohave County, Hydrologic Unit 15010010, on right bank 0.5 mi downstream from Beaver Dam Wash, 0.4 mi upstream from Littlefield, and 36 mi upstream from waterline of Lake Mead at elevation 1,221 ft NGVD of 1929.

DRAINAGE AREA.--5,090 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to current year.

REVISED RECORDS.--WSP 959: 1932. WSP 979: 1930-31, 1933-37. WSP 1313: 1940 (M).

GAGE.--Water-stage recorder. Datum of gage is 1,763.68 ft NGVD of 1929. Prior to May 28, 1933, nonrecording gage at site 300 ft upstream and May 28, 1933, to Nov. 7, 1939, at same site, both at datum 2.53 ft higher. Nov. 8, 1939, to Mar. 31, 1942, nonrecording gage at same site at datum 2.00 ft higher. Apr. 1, 1942 to Sept. 30, 1970, water-stage recorder at same site at same datum. Oct. 1, 1970, to Aug. 7, 1979 at site 300 ft upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--56 years, 243 ft³/s, 176,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,200 ft³/s Dec. 6, 1966, gage height, 15.66 ft, site then in use, from rating curve extended above 1,500 ft³/s on basis of slope-area measurement of peak flow; minimum, 38 ft³/s May 1, 10, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 11	2000	*1,260	6.54				

Minimum daily discharge, 66 ft³/s, July 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	216	233	302	252	272	362	388	150	e70	e91	68
2	116	205	237	288	265	275	396	411	129	e72	e92	70
3	129	199	233	278	272	278	467	442	96	e78	e82	70
4	129	205	226	288	275	272	547	454	89	e82	e74	70
5	134	209	230	288	272	292	551	521	94	e78	e73	74
6	134	205	226	288	272	326	604	500	87	e73	e72	78
7	134	209	230	288	265	337	686	564	89	e74	e80	76
8	124	205	237	388	275	333	748	487	83	e76	e83	83
9	121	209	260	369	288	337	777	502	74	e70	76	85
10	114	216	264	309	292	337	828	402	74	e72	74	79
11	121	216	267	292	288	472	936	438	74	e92	70	83
12	316	219	292	288	285	388	835	377	122	e78	74	83
13	321	223	279	285	288	358	835	340	94	e72	72	85
14	216	219	271	272	288	309	858	309	81	e66	72	83
15	199	219	241	272	288	309	820	333	81	e70	74	83
16	202	223	271	272	288	322	813	344	81	e68	70	85
17	202	226	264	272	288	337	770	380	76	e72	78	87
18	209	230	252	272	288	358	734	377	71	e96	85	96
19	202	230	264	272	292	499	791	358	67	e90	78	131
20	209	226	321	278	292	500	755	347	67	e100	78	144
21	219	212	308	275	326	392	557	340	67	e250	81	100
22	212	212	267	275	305	362	521	333	67	e140	85	98
23	212	230	260	275	295	344	467	304	67	e74	85	96
24	205	260	252	278	278	344	399	308	68	e70	e80	102
25	205	275	260	278	272	358	380	288	81	e82	e75	107
26	209	271	264	278	272	358	369	186	100	e76	e70	121
27	212	233	292	282	265	362	355	196	e90	e72	e67	91
28	209	230	470	282	265	467	358	139	e80	e74	76	91
29	205	241	411	282	---	564	380	98	e75	e151	67	100
30	212	237	333	278	---	380	369	104	e72	186	67	98
31	212	---	305	272	---	347	---	107	---	114	68	---
TOTAL	5746	6710	8520	8916	7891	11189	18268	10677	2546	2838	2369	2717
MEAN	185	224	275	288	282	361	609	344	84.9	91.5	76.4	90.6
MAX	321	275	470	388	326	564	936	564	150	250	92	144
MIN	102	199	226	272	252	272	355	98	67	66	67	68
AC-FT	11400	13310	16900	17680	15650	22190	36230	21180	5050	5630	4700	5390

CAL YR 1984	TOTAL	85989	MEAN	235	MAX	2150	MIN	66	AC-FT	170600
WTR YR 1985	TOTAL	88387	MEAN	242	MAX	936	MIN	66	AC-FT	175300

NOTE.--Water-quality records for the current year are published the report "Water Resources Data for Nevada."

GREAT BASIN

GREAT SALT LAKE BASIN

10010000 GREAT SALT LAKE AT STATE PARK SALT AIR BEACH BOAT HARBOR, UT

LOCATION.--Lat 40°44'05", long 112°12'45", in NE1/4SW1/4NW1/4 sec.17, T.1 S., R.3 W., Salt Lake County, Hydrologic Unit 16020310, at State Park Salt Air Beach Boat Harbor on southeast shore of lake, 17.1 mi west of Salt Lake City. (Gage temporarily located 0.4 mi to the southeast, from Apr. 13, 1984 to May 30, 1985, because of problems associated with highwater, then relocated 0.1 mi to the northeast from May 30, 1985 to present because of highway construction.)

PERIOD OF RECORD.--September 1875 to December 1899, October 1902 to current year. Records for October 1902 to September 1912 and diagram showing fluctuations of lake from 1851-1950, published in WSP 1314.

REVISED RECORDS.--WSP 1314: 1877. WRD-UT-74-1: 1967-73. WDR-UT-83-1: 1981-82.

GAGE.--Water-stage recorder at Boat Harbor since October 1938. Datum at gage since September 15, 1970 is 4,186.80 ft NGVD of 1929. October 1938 to April 15, 1967, at datum 4,186.9 ft and April 15, 1967 to September 15, 1970, at datum 4,186.85 ft. Prior to October 1938, staff gages at sites and datums as follows: September 1875 to October 1877 at Black Rock at 4,208.4 ft NGVD of 1929, November 1877 to November 1879 at Farmington Bay at 4,206.9 ft NGVD of 1929, November 1879 to April 1881 near Black Rock at 4,203.1 ft NGVD of 1929, April 1881 to December 1899 at Garfield Landing at 4,198.5 ft NGVD of 1929, October 1902 to July 1903, at Midlake on Lucin cutoff of Southern Pacific Railroad, 30 mi west of Ogden, at 4,197.9 ft NGVD of 1929, and July 1903 to October 1938 at Saltair at 4,196.9 ft NGVD of 1929.

REMARKS.--To compensate for wind effect and seiches, elevations given for the gage are taken from a mean-slope line defined by several days' gage-height graph, preceding and following 0001 hours, for the 1st and 15th of each month. Wind effects may cause substantial changes in elevations, which are not shown in the published elevations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 4,210.9 ft June 30, 1876; minimum, 4,191.35 ft Oct. 15, Nov. 1, 1963. Maximum elevation since 1847, 4,211.6 ft in 1873, computed from traditional data by G. K. Gilbert and E. C. LaRue.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4209.95 ft May 21-27; minimum, 4207.85 ft Oct. 1.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Day	Gage height	Elevation
Oct. 1	21.05	4,207.85
15	21.10	4,207.90
Nov. 1	21.25	4,208.05
15	21.40	4,208.20
Dec. 1	21.50	4,208.30
15	21.65	4,208.45
Jan. 1	21.85	4,208.65
15	22.00	4,208.80
Feb. 1	22.10	4,208.90
15	22.20	4,209.00
Mar. 1	22.35	4,209.15
15	22.55	4,209.35
Apr. 1	22.75	4,209.55
15	22.95	4,209.75
May 1	23.10	4,209.90
15	23.10	4,209.90
June 1	23.10	4,209.90
15	23.00	4,209.80
July 1	22.75	4,209.55
15	22.60	4,209.40
Aug. 1	22.35	4,209.15
15	22.05	4,208.85
Sept. 1	21.85	4,208.65
15	21.70	4,208.50

GREAT SALT LAKE BASIN

10010000 GREAT SALT LAKE AT STATE PARK SALT AIR BEACH BOAT HARBOR, UT

WATER TEMPERATURES (DEG. C)

DATE	TEMPERATURE	DATE	TEMPERATURE	DATE	TEMPERATURE
Jan. 15, 1972 . .	-1.0	Mar. 01, 1977 . .	2.5	May 15, 1981 . .	15.5
Feb. 01	-1.5	15	4.0	June 15	18.0
15	3.0	Apr. 01	3.0	July 01	25.0
Mar. 01	7.0	15	10.0	Aug. 01	25.5
15	12.0	May 01	16.0	Sept 01	25.0
Apr. 01	8.5	15	8.0	15	22.5
15	8.5	June 01	27.0	Oct. 01	18.5
May 01	12.0	15	24.0	Dec. 01	5.0
15	17.0	Aug. 01	26.0	Jan. 01, 1982 . .	3.0
June 01	21.0	15	27.0	15	-1.5
15	22.5	Sept. 01	23.0	Feb. 01	3.0
July 01	22.5	Oct. 01	20.0	15	2.5
Aug. 01	24.0	15	15.5	Mar. 01	5.0
15	24.0	Nov. 01	14.0	15	6.0
Sept. 01	23.5	15	10.0	Apr. 01	5.5
15	22.0	Dec. 01	5.5	15	10.5
Oct. 01	14.0	15	1.5	May 01	14.0
15	16.0	15	3.0	15	13.0
Nov. 01	9.0	Mar. 01	6.5	June 15	21.5
15	7.5	15	5.5	July 01	24.0
Dec. 01	4.5	Apr. 01	13.0	15	25.0
15	-4.5	15	9.5	Oct. 01	14.5
Jan. 01, 1973 . .	-3.0	May 01	11.5	15	14.0
15	-2.5	15	19.0	Nov. 15	5.5
Feb. 01	-2.5	June 01	18.5	Jan. 01, 1983 . .	.0
Mar. 01	3.0	15	22.0	Feb. 01	2.0
15	4.5	July 01	24.0	15	2.5
Apr. 01	7.0	15	25.5	Mar. 01	5.0
15	11.5	Aug. 01	27.0	15	7.5
May 01	13.5	15	22.0	Apr. 01	9.5
June 01	17.5	Oct. 01	21.0	May 01	11.5
15	16.0	15	18.0	15	12.0
July 01	21.5	Nov. 15	4.0	June 01	17.0
15	23.5	Dec. 01	4.5	15	19.0
Aug. 01	24.5	15 . . . . .	.5	Aug. 01	24.0
Sept. 01	21.5	Jan. 01, 1979 . .	-3.5	15	25.0
15	19.0	15 . . . . .	.0	Sept 01	24.5
Oct. 01	17.0	Feb. 01	-3.5	15	22.0
Nov. 01	10.0	15	4.0	Oct. 01	18.5
15	6.0	Mar. 01	3.0	15	15.0
Dec. 01	4.5	15	9.5	Nov. 01	14.0
15	2.0	Apr. 01	10.0	15	5.0
July 01, 1974 . .	23.5	15	15.0	Jan. 01, 1984 . .	-1.5
Apr. 01, 1975 . .	4.5	May 01	16.0	15	-2.0
15	8.5	15	20.0	Feb. 01	-3.0
July 15	16.0	June 01	21.0	15	-1.5
Sept. 15	22.0	15	23.0	Mar. 01 . . . . .	.0
Oct. 01	20.0	July 01	26.0	15	5.0
Nov. 01	12.0	15	29.0	Apr. 01	6.0
15	6.0	Aug. 01	27.5	15	7.5
Dec. 01	2.5	15	24.0	May 01	8.0
15	1.0	Sept 01	24.0	June 01	18.0
Jan. 01, 1976 . .	.0	15	20.0	15	20.0
15 . . . . .	.0	Oct. 01	17.5	July 01	24.0
Feb. 01 . . . . .	.0	15	18.5	15	26.0
15	1.0	Nov. 01	9.5	Aug. 15	24.5
Mar. 01	1.0	15	12.5	Sept 01	23.0
Apr. 01	7.0	Dec. 01	-4.0	15	21.5
15	11.0	15	1.5	Oct. 01	16.5
May 01	10.0	Jan. 01, 1980 . .	.5	15	10.5
15	20.0	15	4.5	Nov. 01	8.0
June 01	19.0	Feb. 01	-2.0	15	7.0
15	23.5	15	3.0	Dec. 15	2.0
July 01	23.5	Mar. 01	8.0	Jan. 01, 1985 . .	.0
15	25.0	15	5.5	15 . . . . .	.0
Aug. 01	26.0	Apr. 01	6.0	Feb. 01	-2.0
15	20.0	15	12.0	15	-1.5
Sept. 01	23.0	May 01	17.0	Mar. 01 . . . . .	.0
15	20.5	June 01	17.0	15	3.0
Oct. 01	20.0	15	20.0	Apr. 01	5.0
15	16.0	Sept 01	23.5	15	13.5
Nov. 01	11.0	Nov. 01	10.5	May 01	13.0
15	8.0	15	8.0	15	15.0
Dec. 01	4.5	Dec. 15 . . . . .	.0	June 01	17.0
15	2.0	Jan. 01, 1981 . .	3.0	15	20.5
Jan. 01, 1977 . .	.0	15	-3.0	July 15	24.0
15	-1.0	Feb. 01	2.0	Aug. 15	21.5
Feb. 01	-2.0	15	5.0	Sept 01	22.5
15	2.0	Apr. 15	13.0	15	19.0

GREAT SALT LAKE BASIN

10010100 GREAT SALT LAKE NEAR SALINE, UT

LOCATION.--Lat 41°15'09", long 112°29'40", in SE1/4NE1/4NW1/4 sec.14, T.6 N., R.6 W., Box Elder County, Hydrologic Unit 16020310, 3.4 mi northwest of Saline at the Little Valley boat harbor, 30 mi west of Ogden and 27 mi south of Promontory.

PERIOD OF RECORD.--April 1966 to current year.

REVISED RECORDS.--WDR UT-75-1: 1966-75. WDR UT-83-1: 1966-82, gage datum.

GAGE.--Water-stage recorder on pier of boat harbor. Datum of gage, 4,189.80 ft NGVD of 1929.

REMARKS.--To compensate for wind effect and seiches, elevations given for the gage are taken from a mean-slope line defined by several days' gage-height graph, preceding and following 0001 hours, for the 1st and 15th of each month. Wind effects may cause substantial changes in elevations, which are not shown in the published elevations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 4,209.10 ft May 20, 21, 1985; minimum, 4,192.65 ft Oct. 15, Nov. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4,209.10 ft May 20, 21; minimum, 4,206.90 ft Oct. 1.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Day	Gage height	Elevation
Oct. 1	17.10	4,206.90
15	17.20	4,207.00
Nov. 1	17.25	4,207.05
15	17.40	4,207.20
Dec. 1	17.55	4,207.35
15	17.65	4,207.45
Jan. 1	17.90	4,207.70
15	18.10	4,207.90
Feb. 1	18.20	4,208.00
15	18.30	4,208.10
Mar. 1	18.50	4,208.30
15	18.70	4,208.50
Apr. 1	18.85	4,208.65
15	19.05	4,208.85
May 1	19.20	4,209.00
15	19.25	4,209.05
June 1	19.25	4,209.05
15	19.20	4,209.00
July 1	19.05	4,208.85
15	18.85	4,208.65
Aug. 1	18.50	4,208.30
15	18.30	4,208.10
Sept. 1	18.10	4,207.90
15	17.90	4,207.70

GREAT SALT LAKE BASIN
10010100 GREAT SALT LAKE NEAR SALINE, UT
WATER TEMPERATURES (DEG. C)

201

DATE	TEMPERATURE	DATE	TEMPERATURE	DATE	TEMPERATURE
Jan. 15, 1972 . .	.0	May 15, 1975 . .	20.0	July 15, 1981 . .	25.0
Mar. 15	14.0	June 15	22.5	Nov. 15	11.5
Apr. 15	15.0	July 15	27.0	Dec. 15	6.5
May 15	22.5	Aug. 15	26.0	Feb. 15, 1982 . .	9.0
June 15	24.0	Sept 15	24.5	Mar. 15	7.0
Aug. 15	26.5	Oct. 15	12.5	Apr. 15	10.5
Sept 15	23.0	Nov. 15	8.0	May 15	16.0
Nov. 15	6.0	Dec. 15 . . . . .	.0	June 15	22.5
Dec. 15	-4.0	Jan. 15, 1976 . .	3.0	July 15	24.0
Jan. 15, 1973 . .	2.0	Feb. 15	4.5	Aug. 15	26.0
Mar. 15	7.5	Mar. 15	9.0	Sept 15	21.5
Apr. 15	9.0	May 01	16.5	Oct. 15	16.0
May 15	18.0	June 15	21.0	Nov. 15	5.0
June 01	18.0	Aug. 15	22.5	Dec. 15	4.0
15	20.5	Sept 15	21.0	Jan. 15, 1983 . .	1.5
July 15	26.5	Nov. 15	12.0	Feb. 15	4.0
Aug. 15	27.0	Dec. 15 . . . . .	.0	May 15	12.5
Sept 15	20.5	Oct. 15, 1979 . .	21.0	June 15	18.0
Nov. 15	8.5	Nov. 15	5.5	July 15	23.0
Dec. 15	1.0	Dec. 15	-2.0	Aug. 15	27.5
Jan. 15, 1974 . .	3.0	Jan. 15, 1980 . .	2.5	Sept 15	17.0
Feb. 15	4.0	Feb. 15	5.0	Oct. 15	10.0
Mar. 15	12.0	Apr. 15	14.0	Nov. 15	10.0
Apr. 15	13.0	May 15	14.5	Dec. 15	3.0
May 15	18.5	June 15	23.0	Jan. 15, 1984 . .	-5.0
June 15	25.0	July 15	25.0	Feb. 15 . . . . .	.0
July 15	27.0	Aug. 15	25.5	Mar. 15	5.0
Aug. 15	25.0	Sept 15	20.5	June 15	19.5
Sept 15	19.0	Oct. 15	13.0	July 15	24.0
Oct. 15	16.0	Nov. 15	6.0	Aug. 15	25.5
Dec. 15	4.0	Jan. 15, 1981 . .	.0	Apr. 15, 1985 . .	16.0
Jan. 15, 1975 . .	-3.0	Feb. 15	6.5	July 15	27.0
Feb. 15	-1.0	Apr. 15	13.5	Aug. 15	22.5
Mar. 15	7.0	May 15	19.5	Sept 15	18.0
Apr. 15	10.0	June 15	20.0		

BEAR RIVER BASIN

10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WY

LOCATION.--Lat 40°52'25", long 110°47'00", in SE1/4SE1/4SW1/4 sec.26, T.2 N., R.10 E., Summit County, Utah, Hydrologic Unit 16010101, Wasatch National Forest, on right bank 4.1 mi upstream from mouth, 11.5 mi upstream from Utah-Wyoming State line, and 28.7 mi south of Evanston.

DRAINAGE AREA.--34.6 mi².

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,760 ft from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--12 years, 57.1 ft³/s, 41,370 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 857 ft³/s June 18, 1983, gage height, 4.33 ft; minimum, 4.5 ft³/s Apr. 17, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 550 ft³/s June 8, gage height, 3.61 ft; minimum daily, 12.0 ft³/s Jan. 30-Feb 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	33	e14	e15	e12	e15	e14	194	179	83	45	17
2	50	30	e13	e15	e14	e15	e15	208	157	82	43	18
3	48	34	e13	e15	e15	e15	e17	240	161	82	41	19
4	47	33	e13	e16	e14	e15	e18	227	185	83	40	19
5	44	32	e13	e16	e15	e15	e18	230	195	81	37	18
6	42	33	e13	e16	e15	e16	e18	198	228	80	36	17
7	41	32	e13	e17	e16	e15	e22	190	335	76	34	18
8	39	31	e13	e17	e17	e15	e26	208	446	73	32	18
9	38	30	e13	e17	e15	e15	e28	210	422	72	31	18
10	38	31	e13	e17	e14	e16	33	207	371	72	29	16
11	36	31	e14	e17	e13	e16	38	164	302	73	29	25
12	42	29	e14	e16	e15	e16	54	137	275	71	28	24
13	40	28	e14	e16	e16	e15	61	124	272	75	27	20
14	40	e27	e13	e16	e16	e15	67	114	267	64	26	20
15	35	e25	e13	e16	e17	e15	78	112	257	59	25	19
16	40	e23	e13	e16	e17	e14	92	110	257	55	24	17
17	40	e22	e13	e16	e18	e14	e98	119	246	62	24	16
18	42	e21	e13	e17	e17	e14	e118	141	221	63	23	20
19	e39	e21	e14	e17	e17	e14	e124	146	203	73	23	34
20	e39	e21	e14	e16	e16	e13	e102	134	188	61	22	23
21	39	e20	e14	e16	e17	e13	e79	132	175	66	21	21
22	39	e19	e15	e15	e17	e13	e61	143	158	85	20	20
23	36	e18	e15	e14	e18	e14	e55	179	147	75	20	19
24	35	e18	e15	e13	e18	e14	e51	205	148	65	20	19
25	38	e18	e14	e13	e17	e13	e53	232	162	59	19	18
26	34	e18	e14	e14	e16	e13	e48	257	131	54	19	18
27	34	e17	e15	e16	e16	e13	e50	283	111	51	19	18
28	34	e16	e15	e14	e16	e13	e76	289	97	54	18	17
29	32	e15	e15	e13	---	e14	e115	271	89	64	18	16
30	30	e14	e14	e12	---	e15	e145	242	87	56	17	17
31	32	---	e14	e12	---	e14	---	203	---	51	17	---
TOTAL	1213	740	426	476	444	447	1774	5849	6472	2120	827	579
MEAN	39.1	24.7	13.7	15.4	15.9	14.4	59.1	189	216	68.4	26.7	19.3
MAX	50	34	15	17	18	16	145	289	446	85	45	34
MIN	30	14	13	12	12	13	14	110	87	51	17	16
ACFT	2410	1470	845	944	881	887	3520	11600	12840	4210	1640	1150
CAL YR 1984	TOTAL	29732.5	MEAN	81.2	MAX	560	MIN	9.0	ACFT	58970		
WTR YR 1985	TOTAL	21367	MEAN	58.5	MAX	446	MIN	12	ACFT	42380		

e Estimated.

BEAR RIVER BASIN

203

10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UT

LOCATION (REVISED).--Lat 40°50'30", long 110°55'35", in SW1/4NE1/4NE1/4 sec.9, T.1 N., R.9 E., Summit County, Hydrologic Unit 16010101, Wasatch National Forest, on left bank 1,380 ft downstream from Whitney Dam, 7 mi upstream from Deer Creek, and 21.5 mi northeast of Oakley.

DRAINAGE AREA.--6.79 mi².

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1965 published as, "at Whitney Dam Site."

REVISED RECORD.--WRD UT-73-1: Drainage area.

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir since Aug. 4, 1966. Altitude of gage is 9,120 ft from topographic map.

REMARKS.--Records poor. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft since July 1966.

AVERAGE DISCHARGE.--19 years (water years 1967-85), 8.35 ft³/s, 6,050 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145 ft³/s June 13, 1965; maximum gage height, 3.08 ft June 26, 1967; no flow July 24 to Sept. 30, Nov. 16-29, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 101 ft³/s Aug. 27, gage height, 2.88 ft; minimum daily, 0.30 ft³/s many days during May.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	e.50	e.50	e.45	e.45	e.40	e.40	e.34	60	11	2.9	77
2	66	e.50	e.50	e.45	e.45	e.40	e.40	e.34	51	9.9	2.9	61
3	66	e.50	e.50	e.45	e.45	e.40	e.40	e.30	46	9.3	2.9	58
4	67	e.50	e.50	e.45	e.45	e.40	e.40	e.30	54	8.6	2.9	55
5	66	e.50	e.50	e.45	e.45	e.40	e.40	e.30	54	8.0	2.9	38
6	65	e.50	e.50	e.45	e.42	e.40	e.40	e.30	57	7.3	2.9	24
7	64	e.50	e.50	e.45	e.40	e.40	e.40	e.30	64	6.9	2.8	23
8	63	e.50	e.50	e.45	e.40	e.40	e.40	e.30	72	6.4	2.7	23
9	62	e.50	e.50	e.45	e.40	e.40	e.40	e.30	70	6.0	2.6	22
10	61	e.50	e.50	e.45	e.40	e.40	e.40	e.30	66	6.0	2.5	22
11	60	e.50	e.50	e.45	e.40	e.40	e.40	e.30	57	5.9	2.5	21
12	69	e.50	e.50	e.45	e.40	e.40	e.40	e.30	50	5.8	2.5	21
13	71	e.50	e.50	e.45	e.40	e.40	e.44	e.30	46	5.8	2.5	20
14	67	e.50	e.50	e.45	e.40	e.40	e.47	e.30	42	5.8	2.5	20
15	33	e.50	e.50	e.45	e.40	e.40	e.50	e.30	38	5.6	2.4	19
16	8.0	e.50	e.50	e.45	e.40	e.40	e.50	e.30	35	5.5	2.4	18
17	e.50	e.50	e.50	e.45	e.40	e.40	e.50	e.30	28	52	2.5	11
18	e.50	e.50	e.50	e.45	e.40	e.40	e.50	e.30	19	78	2.5	1.1
19	e.50	e.50	e.50	e.45	e.40	e.40	e.50	e.30	22	77	2.5	1.3
20	e.50	e.50	e.50	e.45	e.40	e.40	e.48	e.30	22	77	2.5	1.4
21	e.50	e.50	e.47	e.45	e.40	e.40	e.47	e.30	20	76	2.4	1.3
22	e.50	e.50	e.47	e.45	e.40	e.40	e.46	e.30	19	76	2.4	1.3
23	e.50	e.50	e.47	e.45	e.40	e.40	e.46	e.32	17	29	2.4	1.4
24	e.50	e.50	e.47	e.45	e.40	e.40	e.46	e.64	16	2.8	2.4	1.5
25	e.50	e.50	e.47	e.45	e.40	e.40	e.46	e1.7	19	2.8	2.4	1.5
26	e.50	e.50	e.47	e.45	e.40	e.40	e.46	5.2	18	2.8	35	1.4
27	e.50	e.50	e.47	e.45	e.40	e.40	e.46	7.5	16	2.8	96	1.4
28	e.50	e.50	e.45	e.45	e.40	e.40	e.40	59	14	2.8	91	1.4
29	e.50	e.50	e.45	e.45	---	e.40	e.37	67	12	2.8	92	1.5
30	e.50	e.50	e.45	e.45	---	e.40	e.35	72	11	2.8	90	1.4
31	e.50	---	e.45	e.45	---	e.40	---	64	---	2.9	88	---
TOTAL	961.50	15.00	15.09	13.95	11.47	12.40	13.04	284.04	1115	601.3	556.8	550.9
MEAN	31.0	.50	.49	.45	.41	.40	.43	9.16	37.2	19.4	18.0	18.4
MAX	71	.50	.50	.45	.45	.40	.50	72	72	78	96	77
MIN	.50	.50	.45	.45	.40	.40	.35	.30	11	2.8	2.4	1.1
ACFT	1910	30	30	28	23	25	26	563	2210	1190	1100	1090
CAL YR 1984	TOTAL	4359.62	MEAN	11.9	MAX	91	MIN	.16	ACFT	8650		
WTR YR 1985	TOTAL	4150.49	MEAN	11.4	MAX	96	MIN	.30	ACFT	8230		

e Estimated.

BEAR RIVER BASIN

10011400 WEST FORK BEAR RIVER BELOW DEER CREEK, NEAR EVANSTON, WY

LOCATION.--Lat 40°56'26", long 110°51'30", in NE1/4SE1/4NW1/4 sec.6, T.2 N., R.10 E., Summit County, Utah, Hydrologic Unit 16010101, on left bank 0.8 mi downstream from Deer Creek, 2.1 mi upstream from mouth, and 22.9 mi south of Evanston.

DRAINAGE AREA.--52.2 mi².

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,190 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft since July 1966.

AVERAGE DISCHARGE.--12 years, 48.3 ft³/s, 34,990 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,020 ft³/s May 15, 1984, gage height, 4.20 ft; minimum, 2.0 ft³/s Aug. 11, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 490 ft³/s May 3, gage height, 3.46 ft; minimum daily discharge, 13 ft³/s, several days during February and August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	27	23	21	14	14	18	191	178	51	22	118
2	85	26	23	20	15	15	18	241	166	48	20	93
3	83	26	22	19	16	15	19	313	168	46	20	90
4	82	26	22	18	16	16	18	361	212	43	19	88
5	81	25	21	18	15	17	19	285	190	41	18	71
6	80	25	21	19	15	16	19	246	197	40	17	43
7	79	25	21	19	16	16	23	254	225	39	18	43
8	78	25	22	19	16	17	28	270	246	36	17	43
9	76	25	22	19	16	18	35	264	228	34	16	44
10	75	25	23	18	15	19	41	299	204	33	16	42
11	74	25	23	17	15	19	48	216	176	32	16	44
12	87	26	23	17	15	19	56	171	159	32	17	46
13	87	26	22	16	14	24	61	150	146	33	16	43
14	84	26	21	16	14	24	72	145	135	31	16	41
15	61	26	20	16	14	23	94	146	126	28	15	40
16	30	27	20	17	14	22	122	133	118	27	15	39
17	28	27	20	17	14	20	162	136	108	67	15	35
18	34	26	20	16	e13	19	161	148	89	117	14	21
19	36	25	21	15	e13	19	124	151	88	119	14	31
20	35	25	22	15	e13	19	90	137	84	117	14	23
21	30	25	22	15	e13	19	78	136	79	119	14	21
22	29	26	22	15	14	20	69	143	73	123	e13	20
23	29	26	22	15	e13	20	64	162	68	84	e13	19
24	28	24	22	15	e13	18	62	163	69	29	14	19
25	28	24	25	15	14	18	57	180	96	25	e13	19
26	28	23	23	16	14	18	53	195	80	23	33	18
27	27	23	23	16	14	18	54	209	69	22	132	18
28	27	22	21	16	14	18	79	243	61	25	132	18
29	27	22	22	15	---	18	121	242	57	35	131	18
30	27	22	22	14	---	21	153	225	54	36	129	19
31	27	---	22	14	---	18	---	189	---	27	127	---
TOTAL	1668	751	678	518	402	577	2018	6344	3949	1562	1086	1227
MEAN	53.8	25.0	21.9	16.7	14.4	18.6	67.3	205	132	50.4	35.0	40.9
MAX	87	27	25	21	16	24	162	361	246	123	132	118
MIN	27	22	20	14	13	14	18	133	54	22	13	18
ACFT	3310	1490	1340	1030	797	1140	4000	12580	7830	3100	2150	2430
CAL YR 1984	TOTAL	26923.5	MEAN	73.6	MAX	630	MIN	9.5	ACFT	53400		
WTR YR 1985	TOTAL	20780	MEAN	56.9	MAX	361	MIN	13	ACFT	41220		

e Estimated.

BEAR RIVER BASIN

205

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

LOCATION.--Lat 40°57'55", long 110°51'10", in SE1/4NW1/4SE1/4 sec.30, T.3 N., R.10 E., Summit County, Utah Hydrologic Unit 16010101, on left bank 400 ft downstream from West Fork and 2.8 mi upstream from Utah-Wyoming State line.

DRAINAGE AREA.--172 mi².

PERIOD OF RECORD.--July 1942 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,965 ft from river-profile map.

REMARKS.--Records fair. Flow regulated slightly by Whitney Reservoir, total capacity, 4,700 acre-ft since 1966. Three diversions above station for irrigation of about 265 acres above and 2,600 acres below station.

AVERAGE DISCHARGE.--43 years, 195 ft³/s, 141,280 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,980 ft³/s June 6, 1968, gage height, 3.79 ft; maximum gage height, 4.28 ft June 19, 1983; minimum, 6.8 ft³/s Apr. 12, 1984, result of upstream ice jam.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 8, 9	0200	*1,590	*3.15	No other peak greater than base discharge.			

Minimum daily discharge, 34 ft³/s, Mar. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213	97	e84	e64	e45	e48	51	682	759	245	150	150
2	212	115	e83	e58	e49	e45	58	876	699	225	136	123
3	201	104	e77	e56	e49	43	66	1080	707	221	130	119
4	195	106	e74	e56	e50	54	66	1170	870	220	121	116
5	183	102	e78	e56	e50	54	56	1060	846	213	112	103
6	179	107	e81	e59	e54	42	62	957	920	206	103	86
7	176	101	e82	e65	e57	56	75	956	1160	196	96	86
8	173	97	e86	71	e59	47	96	1040	1400	184	89	88
9	166	97	92	66	e60	49	120	1030	1330	178	86	89
10	162	102	93	e62	e62	45	147	1100	1220	169	83	84
11	157	114	93	e59	e64	46	184	833	1030	169	82	91
12	199	105	92	e58	e70	44	214	704	919	167	81	124
13	193	100	e80	e59	e71	49	230	586	896	193	79	98
14	193	95	e75	e64	e72	57	272	532	866	152	77	93
15	140	90	e73	e67	e71	56	349	542	827	133	75	90
16	109	111	e74	e68	e67	50	443	516	807	123	75	86
17	106	99	e74	e67	e66	47	557	539	787	188	75	81
18	113	89	e75	e66	e66	46	591	661	693	249	73	68
19	112	94	e77	e69	e63	44	505	682	633	289	74	142
20	113	88	e82	e65	e63	44	395	617	583	260	72	106
21	110	99	e87	e61	e62	42	335	592	535	283	68	89
22	101	93	93	e58	e60	43	307	608	474	373	65	86
23	101	91	94	e54	e55	47	279	757	428	321	62	81
24	102	93	81	e54	e49	45	280	812	429	189	61	78
25	107	90	e78	e57	e49	47	262	923	601	152	58	75
26	109	83	e77	e60	e49	47	242	1010	449	133	66	73
27	100	76	74	e60	e47	34	242	1100	361	125	161	71
28	103	e81	73	e58	e46	52	307	1140	296	142	164	67
29	112	e82	75	e54	---	46	405	1100	272	229	162	61
30	105	e80	77	e49	---	53	544	1000	261	257	161	59
31	103	---	70	e46	---	48	---	832	---	188	159	---
TOTAL	4448	2881	2504	1866	1625	1470	7740	26037	22058	6372	3056	2763
MEAN	143	96.0	80.8	60.2	58.0	47.4	258	840	735	206	98.6	92.1
MAX	213	115	94	71	72	57	591	1170	1400	373	164	150
MIN	100	76	70	46	45	34	51	516	261	123	58	59
ACFT	8820	5710	4970	3700	3220	2920	15350	51640	43750	12640	6060	5480
CAL YR 1984	TOTAL	111224	MEAN	304	MAX	2040	MIN	44	ACFT	220600		
WTR YR 1985	TOTAL	82820	MEAN	227	MAX	1400	MIN	34	ACFT	164300		

e Estimated.

BEAR RIVER BASIN

10015700 SULPHUR CREEK ABOVE RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°08'38", long 110°48'19", in NE1/4SE1/4SW1/4 sec.35, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on right bank 1.2 mi downstream from La Chapelle Creek, 2 mi upstream from Sulphur Creek Dam, and 11.5 mi southeast of Evanston.

DRAINAGE AREA.--64.2 mi².

PERIOD OF RECORD.--October 1957 to current year. Monthly discharge only for October and November 1957, published in WSP 1734.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,180 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Several diversions for irrigation above station.

AVERAGE DISCHARGE.--28 years, 18.3 ft³/s, 13,260 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,400 ft³/s June 1, 1983, gage height, 9.10 ft, from rating curve extended above 1,200 ft³/s on basis of slope-area measurement of peak flow. Flood was result of released water from temporary blockage of upstream road culverts; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 207 ft³/s Apr. 15; minimum daily, 0.38 ft³/s, Aug. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	21	e12	e12	e12	e10	e20	e89	e22	9.3	7.5	.38
2	12	26	e12	e11	e12	e10	e25	e100	e21	6.8	4.9	.73
3	11	33	e12	e11	e11	e9.8	e30	e107	e21	5.5	4.6	.97
4	10	26	e12	e11	e11	e9.6	e42	e112	e22	4.9	4.6	.89
5	10	23	e11	e11	e11	e9.6	e39	e104	e23	5.2	4.0	.81
6	10	23	e11	e10	e10	e10	e40	e93	e22	5.2	3.7	.73
7	9.3	22	e11	e10	e10	e11	e54	e81	e23	4.3	3.5	.65
8	9.3	21	e12	e9.6	e10	e9.6	e73	e77	e23	2.4	3.2	.73
9	9.3	20	e13	e9.6	e10	e10	e107	e73	e22	2.8	3.2	.97
10	8.9	26	e13	e9.6	e10	e11	e148	e89	e22	2.1	3.0	.89
11	8.9	24	e13	e9.8	e10	e11	e157	e83	25	1.8	2.2	.89
12	11	29	e13	e9.3	e10	e11	e159	e73	20	3.0	2.2	1.2
13	14	30	e13	e9.1	e11	e12	e154	e62	20	2.8	2.1	1.2
14	16	28	e13	e8.9	e11	e12	e168	e61	20	2.4	2.0	1.2
15	13	28	e12	e8.9	e11	e13	e207	e77	18	2.1	2.1	.81
16	13	30	e12	e9.1	e10	e13	e202	e78	16	.89	2.0	.73
17	14	24	e11	e9.2	e10	e13	e183	e60	13	1.4	2.0	.73
18	12	25	e11	e9.4	e10	e13	e174	e49	12	4.6	1.8	.73
19	12	20	e11	e9.7	e11	e14	e143	e47	12	12	1.7	2.1
20	14	20	e12	e9.9	e11	e15	e121	e41	10	14	1.8	1.6
21	13	18	e12	e11	e12	e17	e97	e39	13	33	1.7	1.2
22	14	16	e13	e10	e13	e19	e83	e30	12	24	1.2	1.2
23	14	16	e13	e9.8	e13	e22	e79	e27	13	20	12	1.2
24	13	16	e14	e9.6	e12	e26	e75	e25	15	19	3.0	1.0
25	15	15	e13	e9.6	e11	e29	e68	e25	58	11	.97	.97
26	15	e14	e12	e9.8	e11	e29	e62	e25	60	6.8	.42	1.0
27	12	e13	e12	e10	e10	e29	e59	e27	39	4.9	.38	1.0
28	14	e13	e11	e11	e10	e27	e61	e28	28	6.4	1.7	.97
29	18	e12	e11	e11	---	e23	e66	e28	18	8.9	.97	.97
30	24	e13	e12	e11	---	e20	e77	e25	13	24	.65	.97
31	25	---	e12	e11	---	e20	---	e23	---	13	.38	---
TOTAL	405.7	645	375	311.9	304	488.6	2973	1858	656	264.49	85.47	29.42
MEAN	13.1	21.5	12.1	10.1	10.9	15.8	99.1	59.9	21.9	8.53	2.76	.98
MAX	25	33	14	12	13	29	207	112	60	33	12	2.1
MIN	8.9	12	11	8.9	10	9.6	20	23	10	.89	.38	.38
ACFT	805	1280	744	619	603	969	5900	3690	1300	525	170	58
CAL YR 1984	TOTAL	17178.8	MEAN	46.9	MAX	806	MIN	3.4	ACFT	34070		
WTR YR 1985	TOTAL	8396.58	MEAN	23.0	MAX	207	MIN	.38	ACFT	16650		

e Estimated.

BEAR RIVER BASIN

207

10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°09'21", long 110°50'05", in SE1/4SE1/4SE1/4 sec.28, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on left bank 400 ft downstream from Sulphur Creek Dam, 6.3 mi upstream from mouth, and 10.5 mi southeast of Evanston.

DRAINAGE AREA.--69.2 mi².

PERIOD OF RECORD.--April 1958 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete V-notch control. Altitude of gage is 7,120 ft from topographic map.

REMARKS.--Records poor. Flow regulated by Sulphur Creek Reservoir, capacity, 7,100 acre-ft. Records prior to 1965 do not include flow over spillway of the dam.

AVERAGE DISCHARGE.--21 years (water years 1965-85), 26.9 ft³/s, 19,490 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (SINCE 1966).--Maximum daily discharge, 740 ft³/s May 15, 1984; no flow at times each year, except 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 232 ft³/s Apr. 15; no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	1.1	44	e39	e36	e35	e35	.18	6.7	25	.23	27
2	77	.98	44	e39	e36	e35	e35	.18	3.8	24	.23	27
3	77	.89	44	e39	e36	e35	e35	.16	3.8	31	.21	27
4	76	.65	43	e39	e36	e35	e35	.13	3.9	22	.21	28
5	69	.45	43	e38	e36	e35	e35	.09	4.1	17	.18	28
6	51	.42	43	e38	e36	e35	e35	.05	4.3	15	3.7	28
7	51	.40	e42	e38	e36	e35	e35	.00	4.3	13	9.5	26
8	50	.40	e42	e38	e36	e35	e35	.00	4.4	15	9.7	14
9	50	.40	e42	e38	e36	e35	36	.00	4.6	31	13	15
10	50	.40	e41	e38	e36	e35	54	.00	4.7	37	18	15
11	50	.40	e41	e38	e36	e35	148	.00	4.9	49	18	14
12	50	.40	e41	e37	e36	e35	189	.00	4.8	49	21	14
13	50	.40	e41	e37	e36	e35	186	.00	4.8	48	28	14
14	50	.40	e40	e37	e36	e35	191	.00	4.7	48	28	14
15	49	.42	e40	e37	e36	e35	232	.00	4.6	48	29	9.7
16	49	.42	e40	e37	e36	e35	225	.00	4.7	45	29	1.2
17	49	.40	e40	e37	e36	e35	203	.00	4.6	41	30	.91
18	49	.42	e40	e37	e36	e35	182	.00	4.5	34	31	.78
19	49	.42	e40	e37	e36	e35	175	.00	4.4	34	31	.70
20	48	.42	e40	e37	e36	e35	171	.00	3.2	34	36	.42
21	48	.45	e39	e37	e36	e35	167	.00	.91	33	42	.32
22	20	.45	e39	e37	e36	e35	163	.00	.86	21	43	.11
23	.42	11	e39	e37	e35	e35	158	2.1	.78	10	44	.00
24	.40	43	e39	e37	e35	e35	153	6.9	.65	10	44	.00
25	3.4	44	e39	e36	e35	e35	145	7.2	3.3	10	45	.00
26	27	44	e39	e36	e35	e35	126	7.5	36	10	45	.00
27	27	44	e39	e36	e35	e35	71	7.7	56	5.5	44	.00
28	19	44	e39	e36	e35	e35	9.1	8.0	54	.29	42	.00
29	1.2	44	e39	e36	---	e35	.16	8.3	42	.29	45	.00
30	1.1	44	e39	e36	---	e35	.18	8.5	32	.29	35	.00
31	1.1	---	e39	e36	---	e35	---	8.8	---	.25	26	---
TOTAL	1269.62	329.09	1260	1155	1002	1085	3264.44	65.79	316.30	760.60	788.96	305.14
MEAN	41.0	11.0	40.6	37.3	35.8	35.0	109	2.12	10.5	24.5	25.5	10.2
MAX	77	44	44	39	36	35	232	8.8	56	49	45	28
MIN	.40	.40	39	36	35	35	.16	.00	.65	.25	.18	.00
ACFT	2520	653	2500	2290	1990	2150	6480	130	627	1510	1560	605
CAL YR 1984	TOTAL 23484.72		MEAN 64.2		MAX 740		MIN .25		ACFT 46580			
WTR YR 1985	TOTAL 11601.94		MEAN 31.8		MAX 232		MIN .00		ACFT 25010			

e Estimated.

BEAR RIVER BASIN

10016900 BEAR RIVER AT EVANSTON, WY

LOCATION.--Lat 41°16'13", long 110°57'47", in NE1/4 NW1/4 sec.21, T.15 N., R.120 W., Uinta County, Hydrologic Unit 16010101, on left bank 100 ft downstream from bridge on State Highway 89, in the City of Evanston.

DRAINAGE AREA.--433 mi².

PERIOD OF RECORD.--April 1984 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 6,730 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Apr. 2-4, June 21 to July 5, Sept. 13-30. Records good except those for April and September, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation, and return flow from irrigated areas. Results for discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Nov. 9 . . . 149
Dec. 18 . . . 56.4
Mar. 22 . . . 142

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,680 ft³/s, May 16, 1984, gage height, 7.35 ft; minimum daily during periods of operation, 42 ft³/s, Aug. 20, 24, 26, 27, Sept. 11, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,490 ft³/s, May 4, gage height, 4.65 ft; minimum daily during period of operation, 42 ft³/s, Aug. 20, 24, 26, 27, Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							242	762	715	120	118	46
2							300	921	681	100	88	53
3							350	1120	630	90	76	57
4							290	1300	791	84	70	55
5							377	1180	781	76	64	55
6							512	1040	765	69	56	48
7							612	997	904	64	62	46
8							635	1050	1180	63	53	45
9							735	1090	1210	66	47	48
10							770	1020	1070	72	52	44
11							715	866	933	85	49	42
12							671	756	802	78	49	59
13							662	701	745	73	55	70
14							681	720	686	77	56	60
15							740	717	626	67	49	55
16							848	679	599	58	43	50
17							882	686	573	50	44	45
18							1000	741	491	49	46	50
19							866	764	395	86	44	80
20							637	713	337	124	42	70
21							606	704	300	138	44	60
22							551	699	270	206	44	58
23							566	760	240	248	44	55
24							598	818	210	179	42	52
25							557	904	250	120	43	50
26							528	954	300	90	42	50
27							470	1010	270	69	42	50
28							490	1030	220	61	47	48
29							513	1020	180	86	53	46
30							649	923	140	205	57	45
31							---	818	---	184	48	---
TOTAL							18053	27463	17294	3137	1669	1592
MEAN							602	886	576	101	53.8	53.1
MAX							1000	1300	1210	248	118	80
MIN							242	679	140	49	42	42

BEAR RIVER BASIN

209

10019500 CHAPMAN CANAL AT STATE LINE, NEAR EVANSTON, WY

LOCATION.--Lat 41°24'24", long 111°02'26", in SE1/4 sec.36, T.17 N., R.121 W., Uinta County, Hydrologic Unit 16010101, on left bank at highway bridge, 6.5 mi downstream from headgates, and 10 mi of Evanston.

PERIOD OF RECORD.--April 1942 to current year (prior to October 1944, Irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder and flashboard control. Altitude of gage is 6,570 ft from river-profile map. Prior to Oct. 11, 1946, nonrecording gage, and Oct. 11, 1946 to Aug. 2, 1961, water-stage recorder at site 20 ft downstream at same datum.

REMARKS.--Records fair. Canal diverts water from Bear River in NW1/4 sec.36, T.16 N., R.121 W. Many diversions above station for irrigation in Wyoming. Flow at station is for storage in Neponset Reservoir, Utah, and irrigation in Saleratus basin, Utah.

AVERAGE DISCHARGE.--41 years (water years 1945-85), 19.5 ft³/s, 14,130 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 143 ft³/s June 24, 1970; no flow at times each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	e32	e32	e.00	e.00	e.37	e13	e34	53	16	53	.00
2	14	e32	e32	e.00	e.00	e.68	e14	e36	52	14	42	.00
3	15	e32	e32	e.00	e.00	e1.5	e15	e38	51	12	29	11
4	15	e32	e32	e.00	e.00	e2.1	e16	e42	54	8.8	1.3	5.4
5	15	e32	e32	e.00	e.00	e2.6	e17	e49	62	7.7	.61	.21
6	15	e32	e32	e.00	e.00	e2.9	e18	e54	71	2.6	.00	.21
7	15	31	e32	e.00	e.00	e3.5	e18	e47	77	.00	.00	.00
8	15	31	e32	e.00	e.00	e4.0	e19	e45	84	.00	.00	.00
9	14	35	e32	e.00	e.00	e4.3	e19	e48	92	3.6	.00	.00
10	14	35	e32	e.00	e.00	e4.5	e20	e57	91	3.9	.00	.00
11	14	32	e32	e.00	e.00	e4.7	e20	e65	90	2.8	.00	.00
12	15	30	e32	e.00	e.00	e4.1	e20	e60	79	6.7	.00	.00
13	15	32	e32	e.00	e.00	e4.5	e21	e56	71	4.5	8.8	.00
14	e14	32	e32	e.00	e.00	e4.6	e22	e55	63	4.2	22	.00
15	e14	e30	e32	e.00	e.00	e6.6	e23	e55	58	3.6	7.7	.00
16	e14	e30	e32	e.00	e.00	e7.8	e24	e56	53	3.1	3.4	.00
17	e14	e31	e32	e.00	e.00	e8.2	e26	e57	51	6.7	.00	.96
18	e14	e32	e32	e.00	e.00	e8.4	e29	e58	47	7.7	.00	19
19	e14	e32	e32	e.00	e.00	e8.2	e34	e61	41	11	.00	.00
20	e14	e32	e32	e.00	e.00	e8.0	e36	e63	37	30	.00	.00
21	e14	e30	e32	e.00	e.00	e7.8	e30	e67	31	30	.00	.00
22	e14	e33	e32	e.00	e.00	e7.8	e26	e70	29	45	.00	.00
23	e14	e32	e32	e.00	e.00	e8.0	e22	59	27	64	.00	.00
24	e14	e32	e32	e.00	e.00	e9.2	e20	62	25	61	.00	.00
25	e14	e32	e16	e.00	e.00	e10	e20	64	26	49	.00	.00
26	e31	e32	e.00	e.00	e.00	e11	e20	65	43	39	.00	.00
27	e31	e31	e.00	e.00	e.31	e12	e22	66	38	32	.00	.00
28	e31	e30	e.00	e.00	e.33	e12	e24	65	31	28	.00	.00
29	e31	e33	e.00	e.00	---	e12	e26	58	25	31	.53	.00
30	e31	e32	e.00	e.00	---	e12	e30	58	21	53	.00	.00
31	e31	---	e.00	e.00	---	e13	---	56	---	70	.00	---
TOTAL	544	954	784.00	.00	.64	206.35	664	1726	1573	650.90	168.34	36.78
MEAN	17.5	31.8	25.3	.00	.02	6.66	22.1	55.7	52.4	21.0	5.43	1.23
MAX	31	35	32	.00	.33	13	36	70	92	70	53	19
MIN	14	30	.00	.00	.00	.37	13	34	21	.00	.00	.00
ACFT	1080	1890	1560	.00	1.3	409	1320	3420	3120	1290	334	73
CAL YR 1984	TOTAL	4266.45	MEAN	11.7	MAX	55	MIN	.00	ACFT	8460		
WTR YR 1985	TOTAL	7308.01	MEAN	20.0	MAX	92	MIN	.00	ACFT	14500		

e Estimated.

BEAR RIVER BASIN

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°26'04", long 111°01'01", in NE1/4NW1/4NW1/4 sec.29, T.17 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 9.3 mi upstream from Woodruff Narrows Dam and 10 mi southeast of Woodruff.

DRAINAGE AREA.--752 mi².

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,455 ft from river-profile map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversion for irrigation of about 43,500 acres above station.

AVERAGE DISCHARGE.--24 years, 255 ft³/s, 184,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,150 ft³/s June 2, 1983, gage height, 6.17 ft; minimum, 0.1 ft³/s Aug. 24, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,850 ft³/s May 11, gage height, 4.95 ft; minimum daily, 10 ft³/s Aug. 27, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	301	191	e158	e145	e95	e129	e152	654	585	134	98	13
2	301	171	e161	e130	e98	e129	e173	739	541	112	66	14
3	301	216	e163	e125	e100	e125	e189	956	478	88	57	17
4	301	205	e157	e120	e100	e121	e192	1370	558	72	68	18
5	297	181	e142	e115	e102	e138	e192	1480	580	66	66	18
6	281	171	e143	e125	e105	e138	e206	1230	530	53	62	17
7	265	178	e144	e135	e108	e118	e228	1070	602	48	55	14
8	261	174	e153	e150	e115	e121	e234	1120	834	51	56	19
9	257	168	e163	e160	e118	e128	e239	1130	1010	53	41	23
10	249	155	e163	e165	e130	e134	e247	1330	928	51	32	24
11	245	165	e161	e155	e140	e128	e261	1780	770	51	34	25
12	257	178	e165	e135	e150	e128	e272	1240	585	57	32	37
13	297	184	e167	e145	e169	e125	e292	901	504	53	25	67
14	305	194	e158	e160	e171	e134	e325	720	463	53	25	64
15	301	168	e156	e153	e163	e140	e380	672	414	53	23	59
16	265	171	e156	e153	e163	e140	e448	636	385	46	14	50
17	249	227	e156	e155	e148	e139	e577	613	385	39	18	29
18	245	194	e158	e157	e152	e137	e723	602	362	34	21	33
19	242	181	e158	e151	e152	e131	e762	619	327	36	20	62
20	242	184	e163	e160	e148	e129	e600	591	305	74	20	98
21	253	171	e162	e150	e152	e129	e510	585	285	81	20	96
22	245	184	e162	e140	e158	e129	e447	580	261	122	20	80
23	205	181	e170	e130	e160	e129	e412	574	242	205	17	71
24	191	e180	e176	e120	e152	e129	e367	613	212	178	13	66
25	188	e180	e168	e120	e143	e129	e362	720	234	125	12	62
26	181	e178	e150	e123	e135	e127	e344	802	385	88	12	58
27	205	e167	e145	e125	e133	e129	e323	880	322	66	10	55
28	178	e150	e142	e123	e127	e121	e378	914	257	42	10	51
29	178	e158	e140	e112	---	e127	e456	928	191	46	11	51
30	194	e160	e145	e102	---	e138	e598	828	168	86	14	54
31	201	---	e150	e98	---	e133	---	708	---	146	14	---
TOTAL	7681	5365	4855	4237	3787	4032	10889	27585	13703	2409	986	1345
MEAN	248	179	157	137	135	130	363	890	457	77.7	31.8	44.8
MAX	305	227	176	165	171	140	762	1780	1010	205	98	98
MIN	178	150	140	98	95	118	152	574	168	34	10	13
ACFT	15240	10640	9630	8400	7510	8000	21600	54710	27180	4780	1960	2670
CAL YR 1984	TOTAL	178195	MEAN	487	MAX	3180	MIN	94	ACFT	353400		
WTR YR 1985	TOTAL	86874	MEAN	238	MAX	1780	MIN	10	ACFT	172300		

e Estimated.

10020200 WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'10", long 111°00'55", in SE1/4NW1/4NW1/4 sec.32, T.18 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, in gate house at Woodruff Narrows Dam on Bear River, 5.6 mi upstream from Wyoming-Utah State line, and 7.7 mi east of Woodruff.

DRAINAGE AREA.--784 mi².

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

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,405 ft from levels by Bureau of Reclamation.

REMARKS.--Records poor. Reservoir formed by earthfill, rock-faced dam. Storage began Jan. 5, 1962. Total capacity, 28,000 acre-ft below spillway crest. Total capacity increased to 57,300 in 1980. Gage height of spillway is 50.4 ft. Figures given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 64,310 acre-ft June 2, gage height, 53.5 ft; minimum observed, 880 acre-ft Sept. 15-25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum observed, 60,920 acre-ft May 6, gage height, 52.0 ft; minimum observed, 16,770 acre-ft Sept. 10, gage height, 27.0 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	49.5	55,260	-
Oct. 31	-	*57,750	+2,490
Nov. 30	-	*57,750	0
Dec. 31	-	*57,750	0
CAL YR 1984	-	-	+7,120
Jan. 31	-	*57,750	0
Feb. 28	-	*57,750	0
Mar. 31	-	*57,980	+230
Apr. 30	-	*60,470	+2,490
May 31	-	*55,040	-5,430
June 30	-	*30,010	-25,030
July 31	-	*18,590	-11,420
Aug. 31	-	*17,210	-1,380
Sept. 30	-	*18,230	+1,020
WTR YR 1985	-	-	-37,030

* No gage reading, contents interpolated.

BEAR RIVER BASIN

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'20", long 111°00'50", in NW1/4NW1/4 sec.32, T.18 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 1,100 ft downstream from Woodruff Narrows Dam, 1.6 mi upstream from Salt Creek, 5.4 mi upstream from Wyoming-Utah State line, and 7.7 mi east of Woodruff.

DRAINAGE AREA.--784 mi².

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6,398.96 ft NGVD of 1929 (levels by Utah Water Resources Division from Bureau of Reclamation bench mark). Prior to Sept. 26, 1962, at site 17½ ft upstream at same datum.

REMARKS.--Records good. Flow regulated by Woodruff Narrows Reservoir (station 10020200) beginning January 1962. Diversions for irrigation of about 43,500 acres above station.

AVERAGE DISCHARGE.--24 years, 253 ft³/s, 183,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft³/s June 2, 1983, gage height, 8.26 ft; no flow July 4, 5, 1962, Aug. 30, 31, Sept. 1, 2, 6, 7, 1979, Oct. 30, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,720 ft³/s May 11, gage height, 6.59 ft; minimum daily, 31 ft³/s many days during July, August, and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	213	180	146	159	155	359	582	e900	822	32	32
2	134	211	175	146	156	154	518	684	e890	811	32	33
3	135	211	171	146	154	159	852	843	930	806	31	33
4	135	212	167	144	153	162	1140	1060	971	795	31	32
5	136	208	159	142	151	160	1180	1300	968	782	32	32
6	144	203	150	142	150	159	1030	1360	964	768	31	32
7	165	198	145	142	148	158	989	1250	962	755	31	32
8	190	204	143	142	148	158	1040	e1150	965	743	31	32
9	213	207	143	143	150	158	1120	e1200	966	734	31	32
10	227	189	146	145	148	159	1200	1500	968	461	31	33
11	239	178	148	147	150	161	1200	1560	969	154	31	32
12	246	180	150	149	150	165	1140	1530	969	153	31	32
13	260	190	152	151	150	167	1050	1250	965	152	31	32
14	272	199	151	151	149	169	966	e1100	961	152	31	31
15	285	196	146	152	147	174	927	e1000	954	152	31	31
16	290	183	145	152	145	175	941	e900	947	150	32	32
17	281	182	147	154	146	177	974	e850	942	150	32	31
18	271	183	147	154	145	183	1040	e800	935	151	32	32
19	262	175	143	156	146	196	1120	e750	928	151	32	32
20	254	169	142	158	148	221	1090	e800	918	150	32	32
21	257	163	142	162	150	260	967	e800	911	149	32	31
22	259	161	143	164	150	275	870	e800	906	148	32	31
23	250	159	144	164	152	273	795	e800	894	148	32	31
24	237	157	143	164	154	300	729	e770	884	99	32	31
25	222	170	144	163	155	415	680	1080	870	31	32	31
26	215	173	143	161	155	537	640	e1200	861	31	32	32
27	218	169	142	160	155	582	599	e1150	856	31	31	32
28	218	168	142	161	154	483	545	e1100	849	31	31	32
29	203	172	144	162	---	412	513	e1000	840	31	31	31
30	199	176	144	161	---	365	520	e960	831	31	31	31
31	207	---	145	160	---	337	---	e930	---	31	32	---
TOTAL	6758	5559	4626	4744	4218	7609	26734	31859	27672	9755	976	953
MEAN	218	185	149	153	151	245	891	1028	922	315	31.5	31.8
MAX	290	213	180	164	159	582	1200	1560	971	822	32	33
MIN	134	157	142	142	145	154	359	582	831	31	31	31
ACFT	13400	11030	9180	9410	8370	15090	53030	63190	54890	19350	1940	1890
CAL YR 1984	TOTAL	180632	MEAN	494	MAX	3390	MIN	100	ACFT	358300		
WTR YR 1985	TOTAL	131461	MEAN	360	MAX	1560	MIN	31	ACFT	260800		

e Estimated.

BEAR RIVER BASIN

213

10020900 WOODRUFF CREEK BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°28'06", long 111°18'50", in NE1/4SE1/4SW1/4 sec.31, T.9 N., R.6 E., Rich County, Hydrologic Unit 16010101, on left bank 0.2 mi downstream from Woodruff Creek Dam, 4.8 mi upstream from Birch Creek, and 8.5 mi southwest of Woodruff.

DRAINAGE AREA.--50.0 mi².

PERIOD OF RECORD.--October 1970 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area. WRD UT-72-1: 1971. WDR UT-82-1: 1971 (M).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,770 ft from topographic map.

REMARKS.--Records poor. Flow regulated by Woodruff Creek reservoir, total capacity, 4,100 acre-ft since Nov. 2, 1970.

AVERAGE DISCHARGE.--15 years, 30.0 ft³/s, 21,740 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 783 ft³/s May 29, 1983, gage height, 4.09 ft; no flow during winter months each year except 1972, 1973, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum observed discharge, 340 ft³/s about May 10, gage height, 3.01 ft; minimum, no flow, Aug. 1-Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	14	.24	.43	6.1	9.4	17	e183	e117	70	.00	.00
2	9.7	14	.24	.43	7.7	9.8	24	e228	e115	69	.00	.00
3	9.7	14	.24	.43	8.5	11	34	e245	e103	69	.00	.00
4	9.3	14	.24	.43	8.8	13	38	e258	e99	68	.00	.00
5	9.0	14	.24	.43	8.6	10	32	e249	e99	66	.00	.00
6	9.3	14	.24	.43	8.7	10	34	e236	e97	64	.00	.00
7	9.3	14	.24	.43	8.3	9.1	40	e251	e94	63	.00	.00
8	9.3	14	.24	.43	8.3	9.6	47	e262	e92	51	.00	.00
9	11	14	.24	.43	7.9	9.7	59	e273	e89	40	.00	.00
10	13	14	.24	.43	7.7	11	65	e280	e87	39	.00	.00
11	13	14	.24	.48	7.6	12	e71	e247	e85	39	.00	.00
12	13	14	.24	.50	7.5	14	e76	e193	85	39	.00	.00
13	13	14	.24	.50	7.4	12	e80	e145	85	39	.00	.00
14	13	14	.24	.50	7.2	12	e83	e140	85	39	.00	.00
15	13	14	.28	.50	7.4	13	e85	e145	85	39	.00	.00
16	13	14	.30	.50	7.9	14	e88	e128	83	38	.00	.00
17	13	14	.30	.48	7.7	16	e91	e133	82	37	.00	.00
18	13	14	.30	.50	6.1	19	e93	e141	81	37	.00	.00
19	13	14	.30	.50	7.3	19	e95	e143	81	36	.00	.00
20	13	14	.30	.43	9.3	20	e92	e130	80	35	.00	.00
21	13	14	.30	1.2	8.5	20	e81	e130	79	34	.00	.00
22	14	14	.33	5.1	8.3	19	e69	e137	78	33	.00	.00
23	14	7.2	.36	3.9	7.6	18	e63	e152	77	32	.00	.00
24	14	.37	.36	12	8.4	18	e61	e157	77	31	.00	4.1
25	14	.31	.36	13	8.6	21	e58	e159	76	30	.00	8.9
26	14	.30	.36	12	11	20	e54	e162	74	28	.00	8.9
27	14	.26	.36	11	9.3	21	e53	e159	73	28	.00	9.1
28	14	.24	.36	10	8.2	19	e74	e149	73	26	.00	9.3
29	14	.24	.36	9.8	---	18	e102	e139	72	26	.00	11
30	14	.24	.36	9.1	---	16	e153	e129	71	12	.00	15
31	14	---	.43	5.6	---	17	---	e121	---	.14	.00	---
TOTAL	378.4	317.16	9.08	101.89	225.9	460.6	2012	5604	2574	1257.14	.00	66.30
MEAN	12.2	10.6	.29	3.29	8.07	14.9	67.1	181	85.8	40.6	.00	2.21
MAX	14	14	.43	13	11	21	153	280	117	70	.00	15
MIN	5.8	.24	.24	.43	6.1	9.1	17	121	71	.14	.00	.00
ACFT	751	629	18	202	448	914	3990	11120	5110	2490	.00	132
CAL YR 1984	TOTAL	16811.24	MEAN	45.9	MAX	543	MIN	.20	ACFT	33350		
WTR YR 1985	TOTAL	13006.47	MEAN	35.6	MAX	280	MIN	.00	ACFT	25800		

e Estimated.

BEAR RIVER BASIN

10026500 BEAR RIVER NEAR RANDOLPH, UT

LOCATION.--Lat 41°48'02", long 111°04'20", in SE1/4NE1/4 sec.7, T.12 N., R.8 E., Rich County, Hydrologic Unit 16010101, on left bank 3.7 mi upstream from Twin Creek, 5.0 mi upstream from Utah-Wyoming State line, and 11 mi northeast of Randolph.

DRAINAGE AREA.--1,616 mi².

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft from river-profile map. Prior to Aug. 17, 1971, 0.2 mi upstream at different datum.

REMARKS.--Records poor. Diversion for irrigation of about 94,500 acres above station. Flow regulated by upstream reservoirs.

AVERAGE DISCHARGE.--42 years, 216 ft³/s, 156,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,630 ft³/s June 4, 1983, gage height, 8.58 ft; minimum, 1.6 ft³/s Nov. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,470 ft³/s May 12; minimum daily, 37 ft³/s Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236	312	e281	e198	e198	e229	e520	e705	526	288	e107	37
2	237	315	e278	e198	e198	e230	e677	e810	496	314	e104	41
3	236	325	e272	e195	e197	e231	e1060	e990	465	357	e102	45
4	234	330	e259	e193	e196	e231	e1200	e1200	437	384	e102	41
5	231	326	e251	e193	e194	e233	e1220	e1370	453	361	e100	38
6	221	328	e240	e191	e194	e236	e1050	e1430	448	368	e99	37
7	223	326	e233	e189	e192	e236	e1050	e1220	442	371	e98	37
8	232	324	e231	e191	e190	e239	e1070	e1200	468	375	e96	40
9	245	321	e229	e191	e188	e243	e1100	e1160	428	337	94	40
10	265	314	e229	e189	e188	e249	e1120	e1250	437	362	93	41
11	284	307	e227	e187	e186	e258	e1130	e1380	430	387	93	46
12	302	304	e227	e184	e185	e273	e1140	e1470	294	332	93	53
13	312	297	e225	e182	e183	e270	e1160	e1410	303	292	87	68
14	316	302	e223	e186	e183	e268	e1150	e1250	311	286	84	83
15	326	308	e219	e188	e185	e270	e1120	e1080	291	269	70	71
16	335	307	e217	e188	e185	e283	e1110	e960	288	240	68	68
17	345	299	e210	e190	e187	e300	e1130	e910	283	220	78	69
18	358	299	e203	e194	e189	e318	e1150	e870	304	221	85	77
19	360	294	e200	e197	e189	e330	e1190	e763	317	218	82	87
20	358	280	e198	e200	e191	e339	e1210	e700	300	211	61	91
21	358	273	e195	e200	e197	e349	e1180	e635	297	210	59	85
22	354	267	e195	e200	e205	e352	e1030	e563	294	208	64	82
23	346	268	e198	e200	e210	e349	e940	495	313	203	60	81
24	344	255	e200	e202	e215	e405	e847	434	275	204	57	79
25	342	259	e200	e202	e220	e478	e817	404	181	166	55	79
26	333	261	e202	e202	e223	e558	e762	376	167	e134	47	80
27	325	265	e204	e202	e226	e600	e725	511	218	e114	43	81
28	314	e273	e204	e202	e229	e562	e700	605	305	e111	41	85
29	318	e279	e202	e202	---	e518	e670	590	310	e110	41	90
30	323	e281	e200	e200	---	e477	e645	520	287	e110	40	93
31	316	---	e198	e198	---	e499	---	533	---	e109	38	---
TOTAL	9329	8899	6850	6034	5523	10413	29873	27794	10368	7872	2341	1945
MEAN	301	297	221	195	197	336	996	897	346	254	75.5	64.8
MAX	360	330	281	202	229	600	1220	1470	526	387	107	93
MIN	221	255	195	182	183	229	520	376	167	109	38	37
ACFT	18500	17650	13590	11970	10950	20650	59250	55130	20560	15610	4640	3860
CAL YR 1984	TOTAL	203146	MEAN	555	MAX	2860	MIN	120	ACFT	402900		
WTR YR 1985	TOTAL	127241	MEAN	349	MAX	1470	MIN	37	ACFT	252400		

e Estimated.

BEAR RIVER BASIN

215

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY

LOCATION.--Lat 41°56'20", long 110°59'05", in SE1/4SE1/4 sec.25, T.23 N., R.120 W., Lincoln County, Hydrologic Unit 16010102, 800 ft downstream from Pixley Dam, 11 mi south of Cokeville, and 17.5 mi downstream from Twin Creek.

DRAINAGE AREA.--2,032 mi².

PERIOD OF RECORD.--October 1941 to November 1943 (published as Bear River near Cokeville), October 1952 to September 1956, May 1958 to current year (irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,185 ft from river-profile map. Oct. 31, 1941 to Nov. 30, 1943, at site 200 ft downstream at different datum.

REMARKS.--Records fair, including estimated daily discharges. Natural flow of stream affected by diversions for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,300 ft³/s Mar. 25, 1956; minimum recorded, 0.24 ft³/s Apr. 26, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,100 ft³/s May 16; minimum recorded, 61 ft³/s Aug. 31, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								605	492	542	e146	61
2								584	434	600	e146	65
3								600	423	562	e144	71
4								650	363	562	e139	75
5								706	355	562	e141	66
6								772	375	562	e140	65
7								827	382	567	e140	63
8								890	386	623	139	65
9								956	382	690	133	67
10								1010	365	620	125	70
11								1030	365	608	119	72
12								1030	365	557	117	84
13								1030	352	445	119	89
14								1050	316	386	112	112
15								1080	265	355	110	114
16								1100	273	330	96	105
17								1040	278	307	93	101
18								843	282	280	107	105
19								597	290	e269	112	116
20								520	293	e258	104	128
21								522	295	e251	85	132
22								520	301	e248	84	125
23								466	305	e242	91	120
24								432	309	e235	84	117
25								371	328	e228	83	116
26								295	346	e203	79	116
27								303	359	e179	70	116
28								336	380	e153	66	117
29								348	401	e149	68	120
30								410	405	e147	62	129
31								559	---	e144	61	---
TOTAL								21482	10465	11864	3315	2902
MEAN								693	349	383	107	96.7
MAX								1100	492	690	146	132
MIN								295	265	144	61	61
ACFT								42610	20760	23530	6580	5760

e Estimated.

BEAR RIVER BASIN

10032000 SMITHS FORK NEAR BORDER, WY

LOCATION.--Lat 42°17'16", long 110°52'14", in NW1/4 sec.33, T.27 N., R.118 W., Lincoln County, Hydrologic Unit 16010102, on left bank 4.5 mi upstream from Howland Creek, 6 mi downstream from Hobbie Creek, and 12 mi northeast of Border.

DRAINAGE AREA.--165 mi².

PERIOD OF RECORD.--May 1942 to current year.

REVISED RECORDS.--WSP 1734: 1952(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,680 ft from topographic map. Prior to Oct. 16, 1945, at site 0.8 mi downstream at different datum.

REMARKS.--Records poor. One diversion for irrigation of about 200 acres above station.

AVERAGE DISCHARGE.--43 years, 200 ft³/s, 144,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,870 ft³/s May 29, 1983, gage height, 5.45 ft; minimum, 21 ft³/s Mar. 29, 1975, Jan. 24, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 620 ft³/s May 11, gage height, 3.83 ft; minimum daily, 40 ft³/s Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e137	114	e98	e56	e40	e62	e111	430	479	249	159	120
2	e134	114	e86	e50	e43	e56	e114	486	460	242	148	125
3	e132	116	e80	e50	e50	e50	e119	538	444	233	150	142
4	131	116	e76	e50	e48	e48	e127	604	456	223	145	135
5	133	117	e76	e52	e46	e50	e138	592	424	216	140	128
6	130	107	e80	e54	e52	e54	e143	560	419	207	135	122
7	131	106	e86	e57	e60	e50	e157	551	420	201	131	117
8	131	e100	e90	e60	e62	e54	e166	569	451	198	130	108
9	130	e92	e98	e61	e62	e54	180	592	442	196	150	104
10	130	e85	e101	e58	e52	e56	201	607	429	192	144	105
11	129	e98	e94	e52	e45	e58	238	603	410	189	130	113
12	134	110	e92	e42	e50	e58	239	554	391	203	150	125
13	132	111	e92	e42	e52	e56	258	515	378	212	168	138
14	128	113	e90	e50	e53	e58	291	489	365	195	155	150
15	127	117	e90	e62	e55	e61	331	475	353	183	138	125
16	126	115	e82	e59	e57	e62	362	462	341	177	129	118
17	125	115	e68	e59	e57	e62	422	471	328	175	129	109
18	123	117	e70	e60	e57	e64	445	488	315	181	140	105
19	120	119	e72	e62	e60	e66	473	497	303	174	148	105
20	116	120	e75	e63	e58	e68	403	514	293	181	130	109
21	120	119	e74	e65	e60	e68	356	559	284	170	121	110
22	119	121	e74	e56	e60	e78	333	547	276	175	130	109
23	120	122	e73	e51	e58	e85	306	549	268	199	141	105
24	120	123	e72	e52	e58	e89	291	548	264	205	140	102
25	119	e110	e72	e56	e60	e89	276	564	301	179	139	102
26	116	e98	e72	e59	e58	e92	264	589	310	162	132	106
27	116	e90	e72	e61	e59	e97	260	583	294	157	135	106
28	113	e108	e72	e62	e61	e102	267	565	278	159	129	103
29	116	e110	e72	e56	---	e105	307	545	267	164	122	101
30	113	e110	e72	e48	---	e109	370	532	256	181	121	100
31	116	---	e64	e42	---	e109	---	506	---	177	120	---
TOTAL	3867	3313	2485	1707	1533	2170	7948	16664	10659	5955	4279	3427
MEAN	125	110	80.2	55.1	54.8	70.0	265	538	355	192	138	114
MAX	137	123	101	65	62	109	473	607	479	249	168	142
MIN	113	85	64	42	40	48	111	450	256	157	120	100
ACFT	7670	6570	4930	3390	3040	4300	15760	33050	21140	11810	8490	6800
CAL YR 1984	TOTAL	100610	MEAN	275	MAX	1600	MIN	64	ACFT	199600		
WTR YR 1985	TOTAL	64007	MEAN	175	MAX	607	MIN	40	ACFT	127000		

e Estimated.

BEAR RIVER BASIN

217

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY

LOCATION.--Lat 42°07'36", long 110°58'21", in NW1/4SE1/4NE1/4 sec.28, T.25 N., R.119 W., Lincoln County, Hydrologic Unit 16010102, on left bank 1.1 mi upstream from Wyman Dam, 2.8 mi northwest of Cokeville, and 3.8 mi downstream from Smiths Fork.

DRAINAGE AREA.--2,447 mi².

PERIOD OF RECORD.--April 1954 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,140 ft from river-profile map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversion for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

AVERAGE DISCHARGE.--31 years, 475 ft³/s, 344,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,620 ft³/s June 7, 1983, gage height, 8.75 ft; minimum, 31 ft³/s Oct. 4, 5, 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,340 ft³/s Apr. 10, gage height, 6.11 ft; minimum daily, 143 ft³/s Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	457	538	460	e370	e240	e311	1480	1360	1180	856	280	144
2	481	537	474	e340	e240	e314	2110	1370	1010	1030	262	151
3	506	581	468	e340	e270	e295	1960	1430	980	1030	255	168
4	485	576	415	e340	e280	e305	2020	1570	910	975	254	163
5	478	566	405	e340	e260	e322	2030	1640	843	942	244	163
6	470	562	397	e340	e280	e307	2130	1650	845	917	232	151
7	458	563	407	e350	e300	e309	2150	1700	850	902	226	145
8	460	565	404	e368	e333	e327	2160	1820	870	880	231	145
9	468	568	383	e380	e329	e340	2220	1920	890	998	244	147
10	478	544	380	e387	e324	e362	2300	2020	862	910	234	146
11	498	542	399	e350	e310	e362	2290	2090	824	869	225	154
12	542	544	443	e300	e307	e344	2240	2070	796	839	229	190
13	552	548	422	e270	e278	e332	2160	2020	772	723	243	193
14	563	553	408	e300	e270	e352	2140	1990	725	613	239	188
15	564	529	412	e340	e276	e380	2150	1980	656	546	228	216
16	578	522	393	e329	e287	e383	2140	1990	629	515	226	198
17	595	533	431	e329	e289	e391	2150	2020	626	474	215	189
18	608	518	426	e329	e287	e415	2110	1950	625	445	214	192
19	615	512	446	e341	e289	e440	2060	1680	626	432	226	224
20	605	500	447	e352	e300	e425	1960	1440	626	408	217	229
21	607	488	445	e360	e308	476	1870	1390	624	399	197	231
22	601	478	436	e363	e291	565	1830	1400	628	402	180	225
23	592	466	412	e335	e284	639	1810	1310	628	410	185	216
24	588	465	395	e324	e289	653	1790	1250	632	413	182	222
25	586	491	e386	e314	e304	659	1730	1180	671	397	176	218
26	576	398	e386	e324	e291	738	1650	1120	697	386	174	216
27	572	375	e383	e330	e289	808	1530	1070	709	340	175	214
28	539	376	e400	e330	e297	884	1440	1070	735	296	158	216
29	547	408	e450	e327	---	904	1370	1050	772	289	150	219
30	554	478	e450	e280	---	1010	1360	1050	793	291	145	221
31	561	---	e440	e240	---	1140	---	1180	---	293	143	---
TOTAL	16784	15324	13003	10322	8102	15492	58340	48780	23034	19220	6589	5694
MEAN	541	511	419	333	289	500	1945	1574	768	620	213	190
MAX	615	581	474	387	333	1140	2300	2090	1180	1030	280	231
MIN	457	375	380	240	240	295	1360	1050	624	289	143	144
ACFT	33290	30400	25790	20470	16070	30730	115700	96760	45690	38120	13070	11290
CAL YR 1984	TOTAL	377559	MEAN	1032	MAX	4570	MIN	300	ACFT	748900		
WTR YR 1985	TOTAL	240684	MEAN	659	MAX	2300	MIN	143	ACFT	477400		

e Estimated.

BEAR RIVER BASIN

10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42°12'40", long 111°03'11", in NE1/4NE1/4NE1/4 sec.15, T.14 S., R.46 E., Bear Lake County, Idaho, Hydrologic Unit 16010102, on left bank 0.2 mi west of Wyoming-Idaho State line, 0.5 mi west of Border, and 2.1 mi upstream from Thomas Fork.

DRAINAGE AREA.--2,486 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft NGVD of 1929, unadjusted.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by regulation of upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--48 years, 453 ft³/s, 328,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,880 ft³/s June 7, 1983, gage height, 9.69 ft; minimum, 24 ft³/s Apr. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,380 ft³/s Apr. 11, gage height, 7.62 ft; minimum daily, 127 ft³/s Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	466	539	e480	e430	e350	e340	e1500	1430	1110	705	302	130
2	478	530	e490	e420	e380	e340	e2130	1440	989	844	282	134
3	513	560	e490	e410	e370	e330	e1980	1480	934	885	270	141
4	486	572	e440	e390	e360	e340	e2040	1590	888	841	267	139
5	481	560	e420	e390	e370	e350	e2030	1660	829	819	258	140
6	472	554	e420	e390	e350	e330	2030	1680	825	809	245	133
7	466	551	e430	e390	e360	e340	2110	1680	819	802	238	128
8	464	560	e420	e400	e360	e350	2150	e1800	808	791	231	127
9	466	560	e400	e410	e360	e360	2200	e1900	812	863	233	129
10	478	542	e400	e410	e350	e390	2300	e1980	795	834	226	130
11	495	533	e420	e410	e340	e390	2350	e2050	760	799	218	136
12	533	536	e470	e410	e330	e370	2340	e2000	740	798	214	166
13	548	539	e440	e400	e310	e360	2220	1940	726	733	229	184
14	554	548	e430	e380	e290	e370	2160	1910	688	637	230	181
15	554	524	e440	e360	e310	e390	2150	1880	644	570	216	199
16	572	513	e430	e360	e310	e400	2160	1880	609	550	202	193
17	582	530	e450	e360	e310	e410	2150	1880	596	518	195	186
18	600	516	e450	e360	e310	e420	2160	1860	584	481	190	184
19	603	507	e460	e370	e310	e430	2130	1660	575	469	199	211
20	600	498	e460	e380	e320	e450	2070	1430	574	442	196	227
21	594	492	e460	e390	e330	e490	1970	1350	571	426	190	239
22	594	472	e450	e390	e320	e580	1910	1360	569	422	172	236
23	584	458	e430	e370	e310	e660	1870	1280	567	432	173	241
24	582	472	e410	e360	e310	e670	1830	1210	568	435	172	245
25	578	472	e400	e350	e330	e680	1770	1160	602	418	160	240
26	575	e430	e400	e360	e330	e760	1700	1090	628	404	154	237
27	572	e390	e400	e360	e320	e830	1600	1030	636	370	151	234
28	542	e400	e410	e360	e330	e900	1500	1020	646	328	140	226
29	542	e440	e410	e350	---	e920	1440	989	670	315	134	230
30	554	e490	e420	e350	---	e1030	1420	985	688	316	130	233
31	551	---	e420	e330	---	e1160	---	1070	---	312	128	---
TOTAL	16679	15288	13450	11800	9330	16140	59370	47674	21450	18368	6345	5559
MEAN	538	510	434	381	333	521	1979	1538	715	593	205	185
MAX	603	572	490	430	380	1160	2350	2050	1110	885	302	245
MIN	464	390	400	330	290	330	1420	985	567	312	128	127
ACFT	33080	30320	26680	23410	18510	32010	117800	94560	42550	36430	12590	11030
CAL YR 1984	TOTAL	379579	MEAN	1037	MAX	4390	MIN	310	ACFT	752900		
WTR YR 1985	TOTAL	241453	MEAN	662	MAX	2350	MIN	127	ACFT	478900		

e Estimated.

BEAR RIVER BASIN

219

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year. Prior to 1981 water year, published in "Water Resources Data for Wyoming."

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1965 to September 1976, January 1978 to September 1981.

WATER TEMPERATURES: October 1965 to September 1976, January 1978 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,580 microsiemens Dec. 27, 1975; minimum daily, 312 microsiemens Apr. 3, 1969.

WATER TEMPERATURES: Maximum, 23.5°C Aug. 14, 1980; minimum, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC 07...	1215	250	650	8.2	-14.5	0.0	4.7	10.4	609	K2	K6
JAN 24...	1000	366	590	8.0	-23.0	0.0	43	9.2	615	15	12
APR 05...	1400	2040	520	8.2	3.5	5.0	97	8.6	608	K14	1400
MAY 29...	1000	1010	505	8.5	12.0	13.0	45	10.8	605	97	94
JUL 26...	1115	398	640	8.4	27.5	18.0	35	7.3	615	K130	4800
SEP 25...	1500	237	600	8.4	13.5	10.5	14	10.0	610	K38	K48

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HC03)	CAR- BONATE IT-FLD (MG/L AS C03)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L - CAC03)
DEC 07...	300	6.1	74	29	28	17	0.7	2.1	290	--	239
JAN 24...	290	5.7	72	26	23	15	0.6	1.9	270	--	227
APR 05...	210	4.1	46	22	32	25	1.0	6.5	270	--	218
MAY 29...	240	4.8	56	24	21	16	0.6	2.4	240	2.0	203
JUL 26...	300	6.0	68	31	30	18	0.8	2.7	290	8.2	253
SEP 25...	280	5.5	67	26	24	16	0.7	1.7	260	4.1	220

DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
DEC 07...	64	32	0.2	6.0	382	380	0.52	258	0.15	0.02
JAN 24...	59	26	0.2	7.9	349	225	0.31	222	0.42	0.06
APR 05...	66	28	0.1	11	319	214	0.29	1180	0.17	0.25
MAY 29...	46	20	0.2	8.6	294	178	0.24	486	<0.1	0.04
JUL 26...	49	32	0.2	9.6	478	383	0.65	514	<0.1	0.08
SEP 25...	68	26	0.2	8.1	340	355	0.48	227	<0.1	0.03

K Results based on colony count outside acceptable range (non ideal colony count).

BEAR RIVER BASIN

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04)
DEC 07...	0.03	0.4	0.4	0.4	1.8	0.02	--	<0.01	<0.01	0.03
JAN 24...	0.08	0.8	0.8	0.8	3.5	0.26	--	0.13	0.13	0.4
APR 05...	0.32	2.0	2.00	2.0	8.9	0.15	--	0.10	0.08	0.25
MAY 29...	0.05	0.6	0.6	0.6	2.7	0.20	0.61	0.02	0.02	0.06
JUL 26...	0.1	0.9	0.9	0.9	4.0	0.10	0.31	<0.01	<0.01	0.03
SEP 25...	0.04	0.4	0.4	0.4	1.8	0.05	0.15	0.01	0.01	0.03

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
DEC 07...	1215	<10	<1	140	<0.50	<1	--	<3.00	1	5.00	6
APR 05...	1400	900	2	100	<0.50	<1	<1	<3.00	5	560	7
JUL 26...	1115	10	2	140	<0.50	<1	<1	<3.00	2	8.00	2
SEP 25...	1500	20	1	120	<0.50	<1	<1	<3.00	1	<3.00	<1

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC 07...	20	12	<0.1	<10	5	<1	<1	490	<6.0	10
APR 05...	20	<10	<0.1	40	6	<1	<1	380	<6.0	10
JUL 26...	20	4	<0.1	<10	<1	<1	<1	460	<6.0	30
SEP 25...	20	10	<0.1	<10	<1	0.00	<1	520	<6.0	7.00

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MEN, DIS- CHARGE, SUS- PENDE (T/DAY)
DEC 07...	1215	250	0.0	66	57	38
JAN 24...	1000	366	0.0	70	151	149
APR 05...	1400	2040	5.0	88	733	4040
MAY 29...	1000	1010	13.0	88	146	398
JUL 26...	1115	398	18.0	52	163	175
SEP 25...	1500	237	10.5	68	60	38

BEAR RIVER BASIN

221

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE

LOCATION.--Lat 42°24'10", long 111°01'30", in SE1/4NW1/4 sec.19, T.28 N., R.119 W., Lincoln County, Wyoming, Hydrologic Unit 16010102, on right bank 1.3 mi upstream from Wyoming-Idaho State line, 1.5 mi downstream from Giraffe Creek, and 3.5 mi northeast of Geneva, Idaho.

DRAINAGE AREA.--113 mi².

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,280 ft from topographic map. Prior to Aug. 23, 1957, at site 0.2 mi upstream at different datum.

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

AVERAGE DISCHARGE.--36 years, 55.1 ft³/s, 41,590 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft³/s May 15, 1984, gage height, 5.00 ft; minimum, 2.6 ft³/s Mar. 2, 1956, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 16, 18	2300	*413	*2.71	May 3	2300	387	2.64

Minimum daily, 18 ft³/s Jan. 2-3, 13, Feb. 2, 10, 24, 26-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	e27	e26	e19	e19	e19	28	276	103	51	29	20
2	32	26	e24	e18	e18	e20	35	301	99	49	28	25
3	32	e27	e23	e18	e19	e21	51	330	95	47	28	23
4	31	e27	e22	e19	e20	e20	62	323	93	46	27	21
5	30	26	e21	e19	e20	e20	50	276	90	45	26	21
6	29	27	e21	e19	e19	e21	68	252	85	44	26	21
7	29	27	e21	e20	e19	e19	82	229	82	43	25	20
8	28	26	e22	e20	e20	e20	101	226	78	42	24	20
9	28	27	e22	e20	e19	e20	131	222	77	41	24	21
10	28	e27	e23	e20	e18	e22	149	230	76	42	24	20
11	29	28	e23	e19	e20	e24	176	182	74	42	24	21
12	34	27	e22	e19	e19	e25	184	161	73	45	24	30
13	31	27	e22	e18	e19	e26	200	149	73	42	24	24
14	31	28	e22	e19	e19	e25	231	138	72	40	23	22
15	30	e27	e21	e20	e19	e27	255	142	71	39	23	21
16	29	e27	e22	e19	e20	e27	288	144	70	37	23	21
17	30	e28	e22	e19	e21	e28	328	148	68	37	23	21
18	29	e27	e21	e20	e20	e29	341	148	67	38	23	22
19	29	26	e22	e21	e19	e29	346	154	66	38	23	23
20	e28	26	e21	e21	e19	e28	278	148	65	36	22	23
21	e26	e27	e21	e21	e20	e27	248	146	63	35	22	23
22	e27	e25	e20	e20	e20	28	237	148	62	36	21	26
23	27	e24	e20	e20	e19	25	216	141	61	40	22	23
24	27	25	e20	e20	e18	27	202	150	60	36	21	23
25	27	23	e19	e19	e19	26	188	152	64	33	21	23
26	27	e22	e20	e19	e18	26	175	143	61	32	21	22
27	27	e22	e20	e20	e18	26	168	134	58	33	21	22
28	27	e23	e20	e20	e19	26	174	127	56	35	20	23
29	28	24	e20	e21	---	26	200	118	54	32	20	22
30	28	25	e20	e20	---	34	243	116	52	33	20	22
31	28	---	e19	e19	---	27	---	107	---	32	20	---
TOTAL	898	778	662	606	537	768	5435	5661	2168	1221	722	669
MEAN	29.0	25.9	21.4	19.5	19.2	24.8	181	183	72.3	39.4	23.3	22.3
MAX	34	28	26	21	21	34	346	330	103	51	29	30
MIN	26	22	19	18	18	19	28	107	52	32	20	20
ACFT	1780	1540	1310	1200	1070	1520	10780	11230	4300	2420	1450	1330
CAL YR 1984	TOTAL 36975		MEAN 101	MAX 1450	MIN 12	ACFT 73340						
WTR YR 1985	TOTAL 20125		MEAN 55.1	MAX 346	MIN 18	ACFT 39920						

e Estimated.

BEAR RIVER BASIN

10044000 BEAR RIVER AT HARER, ID

LOCATION.--Lat 42°11'50", long 111°10'05", in NW1/4NW1/4NW1/4 sec.23, T.14 S., R.45 E., Bear Lake County, Hydrologic Unit 16010102, on right bank 400 ft downstream from Sheep Creek, 0.8 mi north of Harer siding on Union Pacific (Oregon Short Line) Railroad, and 5 mi southeast of Dingle.

DRAINAGE AREA.--2,839 mi².

PERIOD OF RECORD.--June 1913 to current year. Monthly discharge only October 1916 to December 1918 published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft from topographic map. Prior to Aug. 24, 1914, staff gage at site 1,500 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--72 years, 542 ft³/s, 392,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,140 ft³/s June 9, 1983; minimum daily, 26 ft³/s Aug. 21-27, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,720 ft³/s Apr. 13, gage height, 9.24 ft; minimum daily discharge, 146 ft³/s Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	577	e599	484	375	e424	428	1320	1590	1280	732	328	148
2	560	e599	480	366	414	396	1610	1620	1220	831	311	163
3	593	e611	466	358	410	390	2220	1660	1110	936	292	168
4	587	e629	458	349	404	389	2020	1750	1080	918	285	172
5	568	e635	479	345	403	381	2050	1870	985	876	280	170
6	554	e618	496	347	411	394	2170	1940	937	851	266	168
7	549	e618	462	362	428	395	2330	1940	962	829	252	160
8	537	e618	452	391	447	398	2410	1940	977	815	248	157
9	539	e616	447	421	457	412	2500	1980	977	827	246	157
10	543	e600	436	438	447	417	2570	2070	971	902	246	158
11	558	e600	423	442	424	420	2630	2170	925	825	240	163
12	595	e596	428	e446	419	421	2680	2220	864	854	231	177
13	635	611	431	e430	399	423	2700	2210	852	833	231	192
14	644	610	431	e404	384	422	2570	2170	814	719	237	200
15	650	583	435	e380	387	418	2460	2120	752	628	236	200
16	655	542	e391	e373	391	421	2430	2100	686	583	222	217
17	e669	537	e421	e370	389	437	2420	2080	660	565	216	207
18	e648	535	e429	e371	373	446	2420	2070	635	520	212	204
19	e664	540	e389	e386	378	489	2440	1990	615	502	211	215
20	e661	531	e349	e401	401	605	2410	1700	615	487	214	234
21	e653	498	e359	e419	416	761	2360	1510	615	463	207	246
22	e655	522	368	e417	424	781	2280	1510	605	449	195	254
23	e651	498	364	e407	417	763	2200	1510	602	455	182	252
24	e648	511	356	e392	413	852	2140	1430	601	465	183	258
25	e648	476	335	e372	423	874	2070	1370	623	452	181	260
26	e644	477	310	e368	410	906	2000	1300	671	433	172	258
27	e640	445	301	e373	399	979	1890	1210	689	412	170	258
28	e638	425	335	e383	425	982	1760	1160	703	373	165	250
29	e630	437	345	e388	---	1010	1630	1140	736	346	155	248
30	e599	461	348	e399	---	1100	1590	1120	761	343	152	252
31	e599	---	367	e414	---	1200	---	1170	---	335	146	---
TOTAL	18991	16578	12575	12087	11517	18710	66280	53620	24523	19559	6912	6166
MEAN	613	553	406	390	411	604	2209	1730	817	631	223	206
MAX	669	635	496	446	457	1200	2700	2220	1280	936	328	260
MIN	537	425	301	345	373	381	1320	1120	601	335	146	148
ACFT	37670	32880	24940	23970	22840	37110	131500	106400	48640	38800	13710	12230

CAL YR 1984 TOTAL 439171 MEAN 1200 MAX 4820 MIN 301 ACFT 871100
WTR YR 1985 TOTAL 267518 MEAN 733 MAX 2700 MIN 146 ACFT 530600

e Estimated.

BEAR RIVER BASIN

223

10046000 RAINBOW INLET CANAL NEAR DINGLE, ID

LOCATION.--Lat 42°13'48", long 111°17'43", in NW1/4SW1/4SE1/4 sec.3, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 1.5 mi west of Dingle and 1.8 mi downstream from headworks at Stewart Dam.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only prior to October 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage datum is 5,922.0 ft NGVD of 1929 (by topographic survey). Prior to Oct. 1, 1923, at site 300 ft downstream at different datum; Oct. 1, 1923 to Oct. 27, 1944, at site 0.5 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Canal diverts from Bear River at Stewart Dam in NE1/4 sec.34, T.13 S., R.44 E., for storage in Bear Lake. At times flow in canal is augmented by surplus water from Black Otter Slough entering at the station and by seepage and surplus water from irrigation.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--63 years, 370 ft³/s, 268,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,950 ft³/s May 27 1984; no flow Apr. 28, 1977 and Oct. 1, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,520 ft³/s Apr. 13; minimum daily, 50 ft³/s Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	565	575	373	361	385	352	1190	1570	815	486	244	78
2	533	564	359	364	368	359	1410	1610	833	507	226	74
3	532	575	314	351	350	374	2090	1640	749	602	215	72
4	554	596	314	342	342	371	2080	1660	704	631	202	62
5	529	596	308	335	334	360	2030	1740	619	659	185	66
6	518	586	338	336	338	366	2070	1800	552	713	174	60
7	506	585	366	345	345	369	2200	1770	531	703	168	57
8	489	593	403	370	355	364	2280	1760	501	699	166	55
9	489	589	400	389	370	373	2350	1760	497	675	147	53
10	485	581	368	406	348	380	2390	1760	514	709	153	50
11	487	571	351	408	340	381	2440	1810	501	644	154	57
12	503	572	353	411	342	396	2480	1850	472	604	156	76
13	530	571	358	394	338	386	2520	1880	457	598	159	101
14	546	567	385	378	335	390	2470	1840	443	541	165	111
15	551	539	383	349	338	401	2410	1790	417	509	165	126
16	560	524	369	342	348	410	2360	1780	379	465	161	141
17	574	506	381	340	351	407	2360	1770	340	442	156	160
18	587	524	367	338	345	419	2360	1790	303	408	158	158
19	634	509	334	350	341	412	2380	1800	287	372	156	171
20	631	497	316	364	348	422	2360	1620	250	358	154	185
21	623	485	312	381	339	430	2320	1380	219	334	148	201
22	625	482	308	383	341	455	2260	1170	214	312	142	210
23	621	464	301	377	331	500	2170	1120	213	332	134	214
24	614	459	298	360	327	641	2110	1090	207	348	130	222
25	608	477	293	342	339	639	2040	1050	215	343	128	220
26	592	453	276	332	340	646	1970	1010	230	335	122	223
27	591	346	273	338	337	714	1870	933	252	326	113	219
28	587	308	296	344	345	866	1760	819	277	310	105	214
29	567	348	315	353	---	934	1620	774	315	273	92	212
30	574	354	327	363	---	964	1570	768	383	267	86	211
31	575	---	347	374	---	1020	---	770	---	261	83	---
TOTAL	17380	15396	10486	11220	9660	15501	63920	45884	12689	14766	4747	4059
MEAN	561	513	338	362	345	500	2131	1480	423	476	153	135
MAX	634	596	403	411	385	1020	2520	1880	833	713	244	223
MIN	485	308	273	332	327	352	1190	768	207	261	83	50
ACFT	34470	30540	20800	22250	19160	30750	126800	91010	25170	29290	9420	8050
CAL YR 1984	TOTAL	406695	MEAN	1111	MAX	4950	MIN	271	ACFT	806700		
WTR YR 1985	TOTAL	225708	MEAN	618	MAX	2520	MIN	50	ACFT	447700		

BEAR RIVER BASIN

10046500 BEAR RIVER BELOW STEWART DAM, NEAR MONTPELIER, ID

LOCATION.--Lat 42°15'14", long 111°17'35", in NW1/4NW1/4NE1/4 sec.34, T.13 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 300 ft downstream from Stewart Dam and 4.5 mi south of Montpelier.

DRAINAGE AREA.--2,853 mi².

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January to September 1922, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft from topographic map.

REMARKS.--No estimated daily discharges. Records good. Water diverted at Stewart Dam through Rainbow Inlet Canal (station 10046000) for storage in Bear Lake.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--63 years, 44.5 ft³/s, 32,240 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,050 ft³/s June 3, 1923; no flow July 15, 1956, July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 27 ft³/s July 1; minimum daily, 1.5 ft³/s Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	6.3	7.4	5.8	7.0	10	8.5	3.7	17	27	7.1	2.8
2	6.5	6.1	7.7	6.5	7.1	10	8.5	3.6	19	19	6.4	1.5
3	6.0	6.1	7.5	7.4	7.2	10	9.4	3.5	14	22	5.8	1.7
4	5.8	6.0	6.0	9.8	7.3	11	9.4	3.7	14	17	5.5	5.2
5	5.5	6.0	4.6	11	7.4	11	9.8	3.8	14	17	5.2	5.9
6	4.8	5.9	4.5	10	7.4	11	10	4.0	14	20	5.0	5.1
7	4.1	5.9	4.8	8.9	7.5	11	10	4.3	14	19	4.8	5.0
8	3.6	6.0	5.1	7.9	7.6	12	10	4.5	14	17	5.2	4.7
9	3.2	6.0	5.2	8.1	7.2	12	11	4.7	14	15	5.8	4.5
10	2.8	5.9	5.3	8.3	7.4	12	11	5.1	14	17	6.5	4.4
11	2.4	5.9	5.4	11	7.6	12	10	5.4	13	14	7.0	4.2
12	3.1	5.9	5.5	10	7.8	12	10	5.9	13	12	7.6	5.7
13	3.9	5.9	5.3	8.8	8.0	12	10	6.4	12	11	8.0	10
14	4.6	5.8	5.6	7.6	8.2	13	10	6.8	11	10	7.7	10
15	5.6	5.8	6.0	8.0	8.4	13	9.6	7.1	11	9.1	7.4	11
16	6.9	6.4	6.5	8.2	8.6	13	8.9	7.6	10	8.9	7.4	12
17	7.2	6.3	6.8	7.4	8.8	13	8.4	8.1	9.2	9.5	7.4	12
18	7.5	5.3	7.2	6.5	9.0	13	7.8	8.6	9.3	10	7.4	7.8
19	7.9	4.7	7.5	6.4	9.6	13	7.4	9.2	9.7	10	7.4	8.9
20	8.5	4.6	7.2	5.5	9.5	14	6.9	9.8	10	10	7.4	9.6
21	7.7	5.1	6.0	6.8	9.3	13	6.4	10	11	9.8	7.3	10
22	7.1	5.7	4.2	6.7	9.1	13	5.8	10	11	9.6	6.9	11
23	6.7	6.3	4.5	6.5	9.0	14	5.3	11	11	9.7	6.6	11
24	6.4	6.4	4.9	6.3	8.8	14	5.0	11	11	10	6.5	12
25	6.4	6.5	5.3	6.4	9.0	15	4.8	11	12	10	6.5	12
26	6.4	6.5	5.1	6.5	9.3	16	4.6	12	12	11	6.6	12
27	6.3	5.6	5.7	6.5	9.5	23	4.4	12	14	10	7.2	8.4
28	6.3	5.4	5.7	6.6	9.8	14	4.2	12	16	9.9	7.7	8.5
29	6.0	6.1	6.3	6.7	---	8.8	4.1	14	19	9.3	4.4	8.7
30	5.9	6.8	5.8	6.8	---	9.2	3.9	14	23	8.5	3.5	8.8
31	6.3	---	6.4	6.9	---	8.9	---	15	---	7.8	3.3	---
TOTAL	178.4	177.2	181.0	235.8	232.4	386.9	235.1	247.8	396.2	400.1	198.5	234.4
MEAN	5.75	5.91	5.84	7.61	8.30	12.5	7.84	7.99	13.2	12.9	6.40	7.81
MAX	8.5	6.8	7.7	11	9.8	23	11	15	23	27	8.0	12
MIN	2.4	4.6	4.2	5.5	7.0	8.8	3.9	3.5	9.2	7.8	3.3	1.5
ACFT	354	351	359	468	461	767	466	492	786	794	394	465
CAL YR 1984	TOTAL	3453.0	MEAN	9.43	MAX	70	MIN	1.5	ACFT	6850		
WTR YR 1985	TOTAL	3103.8	MEAN	8.50	MAX	27	MIN	1.5	ACFT	6160		

10055500 BEAR LAKE AT LIFTON, NEAR ST. CHARLES, ID

LOCATION.--Lat 42°07'16", long 111°18'52", in NE1/4 sec.16, T.15 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, in Lifton pumping plant of Utah Power & Light Co., 3.5 mi east of St. Charles.

DRAINAGE AREA.--435 mi², approximately (does not include Mud Lake drainage).

PERIOD OF RECORD.--October 1903 to June 1906, elevations only, published as "at Fish Haven," January 1921 to current year. Monthly contents only January 1921 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft Utah Power & Light Co. datum.

REMARKS.--Outflow regulated by gates and pumps at the north end of Bear Lake and by gates in dike at north end of Mud Lake, a shallow interconnected lake. Principal inflow to Bear Lake is from Bear River through Rainbow Inlet Canal (station 10046000) and Dingle Inlet Canals into Mud Lake, from which the inflow can enter into Bear Lake either through the pumping plant or an opening in the dividing causeway. The inflow can be routed directly into the Outlet Canal (station 10059500). Usable capacity of Bear Lake is 1,421,000 acre-ft between elevation 5,902.00 ft, lower limit of pumps, and 5,923.65 ft, upper limit of storage with existing facilities. Water is used for irrigation and power development. Figures herein given represent usable contents.

COOPERATION.--Records provided by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,423,000 acre-ft June 10, 1923, elevation, 5,923.68 ft; no usable contents Nov. 9-19, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,288,000 acre-ft June 17-20, elevation, 5,921.75 ft; minimum, 1,046,000 acre-ft Mar. 28-31, elevation, 5,918.29 ft.

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

5,918	1,026,000	5,921	1,235,000
5,919	1,095,000	5,922	1,305,000
5,920	1,165,000		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1279000	1209000	1159000	1094000	1076000	1061000	1047000	1137000	1264000	1275000	1255000	1173000
2	1277000	1206000	1157000	1091000	1076000	1060000	1047000	1143000	1266000	1274000	1252000	1171000
3	1274000	1204000	1156000	1091000	1076000	1060000	1047000	1148000	1267000	1273000	1250000	1169000
4	1272000	1203000	1152000	1089000	1075000	1059000	1047000	1151000	1269000	1272000	1247000	1169000
5	1270000	1201000	1150000	1089000	1074000	1059000	1048000	1155000	1271000	1271000	1245000	1168000
6	1268000	1198000	1148000	1088000	1074000	1058000	1049000	1159000	1273000	1269000	1242000	1168000
7	1266000	1196000	1144000	1087000	1073000	1058000	1050000	1163000	1276000	1268000	1240000	1167000
8	1264000	1195000	1138000	1086000	1073000	1058000	1052000	1166000	1277000	1266000	1237000	1165000
9	1262000	1194000	1134000	1086000	1073000	1057000	1054000	1170000	1278000	1266000	1234000	1164000
10	1259000	1193000	1130000	1085000	1072000	1057000	1056000	1173000	1280000	1265000	1231000	1161000
11	1258000	1192000	1127000	1085000	1072000	1056000	1059000	1177000	1282000	1264000	1229000	1158000
12	1256000	1192000	1123000	1085000	1072000	1056000	1062000	1181000	1283000	1264000	1227000	1157000
13	1254000	1191000	1120000	1084000	1071000	1055000	1065000	1187000	1283000	1264000	1224000	1155000
14	1250000	1190000	1116000	1084000	1070000	1055000	1070000	1193000	1285000	1264000	1220000	1152000
15	1247000	1189000	1114000	1084000	1070000	1054000	1074000	1200000	1287000	1264000	1217000	1150000
16	1245000	1188000	1113000	1083000	1070000	1054000	1076000	1207000	1287000	1263000	1215000	1148000
17	1241000	1187000	1111000	1083000	1069000	1054000	1078000	1214000	1288000	1263000	1212000	1145000
18	1238000	1185000	1109000	1083000	1068000	1054000	1081000	1220000	1288000	1263000	1209000	1143000
19	1235000	1184000	1108000	1083000	1067000	1053000	1084000	1227000	1288000	1263000	1206000	1141000
20	1232000	1182000	1107000	1082000	1067000	1052000	1088000	1232000	1288000	1262000	1203000	1138000
21	1229000	1178000	1106000	1081000	1066000	1051000	1091000	1235000	1287000	1262000	1201000	1137000
22	1227000	1175000	1105000	1081000	1065000	1050000	1096000	1238000	1286000	1262000	1198000	1136000
23	1224000	1173000	1104000	1080000	1065000	1049000	1102000	1242000	1286000	1262000	1196000	1134000
24	1224000	1171000	1102000	1080000	1064000	1049000	1106000	1245000	1285000	1262000	1194000	1133000
25	1223000	1168000	1101000	1079000	1063000	1048000	1118000	1248000	1285000	1262000	1192000	1131000
26	1222000	1166000	1099000	1079000	1063000	1047000	1115000	1251000	1283000	1261000	1190000	1131000
27	1220000	1165000	1098000	1079000	1062000	1047000	1119000	1255000	1282000	1260000	1187000	1129000
28	1219000	1164000	1097000	1079000	1061000	1046000	1123000	1259000	1280000	1260000	1185000	1128000
29	1217000	1162000	1097000	1078000	---	1046000	1128000	1261000	1278000	1259000	1182000	1127000
30	1215000	1161000	1096000	1078000	---	1046000	1131000	1262000	1276000	1257000	1180000	1127000
31	1212000	---	1095000	1077000	---	1046000	---	1263000	---	1255000	1177000	---
MAX	1279000	1209000	1159000	1094000	1076000	1061000	1131000	1263000	1288000	1275000	1255000	1173000
MIN	1212000	1161000	1095000	1077000	1061000	1046000	1047000	1137000	1264000	1255000	1177000	1127000
(#)	5920.67	5919.95	5919.00	5918.74	5918.51	5918.29	5919.52	5921.40	5921.58	5921.29	5920.17	5919.45
(*)	-68000	-51000	-66000	-18000	-16000	-15000	+85000	+132000	+13000	-21000	-78000	-50000

CAL YR 1984 (*) -41000

WTR YR 1985 (*) -153000

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.

BEAR RIVER BASIN

10058600 BLOOMINGTON CREEK AT BLOOMINGTON, ID

LOCATION.--Lat 42°34'08", long 111°25'48", in SE1/4SW1/4SE1/4 sec.21, T.14 S., R.43 E., Bear Lake County, Hydrologic Unit 16010201, on left bank 1 mi west of Bloomington.

DRAINAGE AREA.--24.0 mi².

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete flume. Altitude of gage is 6,070 ft from topographic map.

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

AVERAGE DISCHARGE.--25 years, 30.6 ft³/s, 22,170 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 248 ft³/s June 11, 1971, gage height, 4.66 ft; minimum, 9.4 ft³/s Jan. 27, 1961, Feb. 26, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 109 ft³/s May 10, gage height, 3.22 ft; minimum daily, 18 ft³/s Feb. 1, Mar. 27-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	24	e25	22	e18	19	22	51	65	37	29	23
2	30	25	e24	21	e19	20	26	59	62	37	29	25
3	30	27	e23	21	e20	19	32	70	60	36	28	24
4	29	25	e23	21	20	19	26	85	59	36	28	23
5	e30	24	e22	21	20	19	28	83	58	35	28	23
6	e31	e25	e23	21	20	19	30	82	58	35	27	23
7	e30	e26	22	21	20	19	35	85	57	34	27	23
8	e29	e25	22	21	21	19	37	91	58	34	27	22
9	e28	e24	22	21	21	19	42	93	58	34	27	23
10	e28	e23	21	21	20	19	42	98	57	33	26	22
11	e28	e23	22	21	20	19	44	88	55	33	26	23
12	29	e24	21	20	20	19	44	73	52	39	26	25
13	28	e25	21	21	20	19	46	67	51	36	26	23
14	27	e26	21	21	20	19	48	66	50	34	26	23
15	27	e25	21	21	20	19	49	71	49	33	25	22
16	27	e25	21	21	20	19	50	71	48	33	25	22
17	27	e25	21	21	20	19	52	76	47	33	25	22
18	27	e25	21	21	20	20	52	78	45	33	25	22
19	27	e24	21	21	20	19	53	82	44	33	25	23
20	26	e24	21	21	20	19	50	79	44	32	25	22
21	26	e24	21	21	20	19	48	78	43	32	25	22
22	25	e25	21	21	20	19	46	82	42	32	25	22
23	25	e25	21	20	19	19	42	80	42	33	24	21
24	26	e25	21	21	20	20	40	80	41	32	24	21
25	25	e25	21	20	20	19	37	84	42	31	24	21
26	26	e23	21	20	19	19	36	86	41	30	24	21
27	25	e22	21	20	19	18	34	82	40	30	24	21
28	25	e23	22	20	19	18	34	77	39	31	23	21
29	26	e24	22	20	---	18	37	73	39	31	23	21
30	25	e25	22	20	---	18	44	71	38	31	23	21
31	25	---	22	e19	---	19	---	66	---	30	23	---
TOTAL	847	735	673	642	555	588	1206	2407	1484	1033	792	670
MEAN	27.3	24.5	21.7	20.7	19.8	19.0	40.2	77.6	49.5	33.3	25.5	22.3
MAX	31	27	25	22	21	20	53	98	65	39	29	25
MIN	25	22	21	19	18	18	22	51	38	30	23	21
ACFT	1680	1460	1330	1270	1100	1170	2390	4770	2940	2050	1570	1330
CAL YR 1984	TOTAL	16781	MEAN	45.8	MAX	194	MIN	18	ACFT	33290		
WTR YR 1985	TOTAL	11632	MEAN	31.9	MAX	98	MIN	18	ACFT	23070		

e Estimated.

BEAR RIVER BASIN

227

10059500 BEAR LAKE OUTLET CANAL NEAR PARIS, ID

LOCATION.--Lat 42°13'00", long 111°20'35", in SW1/4NW1/4SW1/4 sec.8, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 2,000 ft downstream from headgates (at dike) and 3 mi southeast of Paris.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 5,912.6 ft NGVD of 1929, unadjusted.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Bear Lake (station 10055500).

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--63 years, 411 ft³/s, 297,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,600 ft³/s June 14, 1984; minimum daily, 1.0 ft³/s for many days in 1937, 1954, 1959, 1961, 1964, 1977-78.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,880 ft³/s Dec. 15; minimum daily, 14 ft³/s many days during May and June.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1500	1620	1840	956	892	971	1170	14	14	1030	864	908
2	1620	1620	1850	923	890	970	1180	14	14	1010	847	899
3	1630	1640	1840	928	891	968	1220	14	14	1010	838	894
4	1630	1640	1820	931	898	1130	1210	14	14	1010	831	849
5	1630	1640	1820	955	909	1150	1160	14	14	1010	820	767
6	1620	1630	1820	960	899	1070	1150	14	14	1040	802	733
7	1620	1630	1820	963	895	1050	1160	14	14	1050	813	717
8	1610	1640	1820	957	896	1090	1210	14	14	1040	851	705
9	1610	1680	1820	925	901	1070	1210	14	14	1020	886	706
10	1610	1720	1830	894	897	1010	1120	14	14	1010	903	649
11	1610	1760	1840	902	897	975	857	14	14	995	909	674
12	1620	1800	1850	936	905	965	705	14	14	1000	901	694
13	1610	1790	1820	929	947	948	579	14	14	998	897	670
14	1600	1800	1850	912	993	938	578	14	14	987	901	664
15	1590	1780	1880	894	990	934	521	14	392	995	903	671
16	1570	1800	1830	876	985	927	392	14	376	1030	901	654
17	1580	1820	1790	865	966	919	431	14	377	1020	896	663
18	1590	1800	1700	861	938	912	498	14	535	993	892	672
19	1600	1800	1610	865	920	911	508	14	817	984	888	666
20	1610	1780	1460	868	913	919	491	14	969	955	894	552
21	1630	1770	1290	883	913	931	482	14	995	929	893	528
22	1640	1780	1190	884	932	964	481	14	1120	960	892	537
23	1640	1790	1110	881	937	976	474	14	1080	981	888	551
24	1640	1800	1000	880	930	986	473	14	1020	995	884	563
25	1640	1820	1070	878	923	1020	475	14	988	947	884	568
26	1630	1830	1060	876	900	1120	474	14	999	951	888	564
27	1630	1820	1000	876	924	1210	473	14	1040	971	889	522
28	1630	1810	985	879	946	1210	473	14	1040	977	896	498
29	1630	1820	941	891	---	1220	476	14	1030	979	898	500
30	1630	1840	900	899	---	1190	409	14	1040	962	909	491
31	1630	---	874	896	---	1180	---	14	---	919	916	---
TOTAL	50030	52470	47330	28023	25827	31834	22040	434	14014	30758	27274	19729
MEAN	1614	1749	1527	904	922	1027	735	140	467	992	880	658
MAX	1640	1840	1880	963	993	1220	1220	14	1120	1050	916	908
MIN	1500	1620	874	861	890	911	392	14	14	919	802	491
ACFT	99230	104100	93880	55580	51230	63140	43720	861	27800	61010	54100	39130
CAL YR 1984	TOTAL	515022	MEAN	1407	MAX	2600	MIN	588	ACFT	1022000		
WTR YR 1985	TOTAL	349763	MEAN	958	MAX	1880	MIN	14	ACFT	693800		

BEAR RIVER BASIN

10068500 BEAR RIVER AT PESCADERO, ID

LOCATION.--Lat 42°24'06", long 111°21'22", in SW1/4SW1/4SE1/4 sec.6, T.12 S., R.44 E., Bear Lake County, Hydrologic Unit 16010202, on left bank at Pescadero, 400 ft downstream from road bridge, 2 mi downstream from Bennington Creek, and 6.5 mi northwest of Montpelier.

DRAINAGE AREA.--3,705 mi².

PERIOD OF RECORD.--October 1921 to September 1954. June 1969 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft from topographic map.

REMARKS.--Records good. Flow regulated by Bear Lake (station 10055500) and diversions above station for irrigation.

AVERAGE DISCHARGE.--49 years, 648 ft³/s, 469,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,840 ft³/s June 10, 1923; minimum daily, 23 ft³/s Mar. 14-17, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,520 ft³/s Apr. 14, gage height, 6.48 ft; minimum daily, 262 ft³/s May 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1550	1780	1940	1230	1680	1840	1340	630	360	1280	972	971
2	1650	1780	1940	1300	1680	1870	1370	360	345	1270	941	980
3	1700	1810	2010	1170	1660	1860	1410	263	314	1250	939	993
4	1720	1800	1990	1110	1690	1770	1460	272	284	1230	935	999
5	1730	1800	1960	1160	1680	1880	1520	285	269	1230	925	999
6	1730	1800	1960	1220	1670	1850	1610	299	274	1260	917	991
7	1730	1800	2120	1230	1670	1910	1760	310	295	1250	920	989
8	1730	1800	2080	1110	1650	1920	1930	315	298	1230	938	993
9	1730	1830	1910	1130	1670	1940	2170	270	302	1210	973	976
10	1730	1850	1910	1130	1650	1960	2420	262	303	1180	1000	956
11	1730	1870	1910	1100	1650	1980	2420	318	303	1170	1000	898
12	1750	1890	1910	1080	1660	2050	2120	347	274	1180	999	837
13	1740	1890	2030	1040	1660	2070	1770	350	339	1180	991	816
14	1730	1910	1980	e1030	1650	2070	1530	345	295	1170	999	808
15	1720	1910	1910	e1000	1680	2070	1390	319	438	1150	996	810
16	1710	1910	1900	e990	1670	2070	1190	320	511	1180	996	758
17	1720	1930	2040	e1000	1680	2110	1110	310	501	1190	996	793
18	1720	1950	2020	e1010	1670	2160	1150	328	569	1170	987	796
19	1730	1960	1890	e1010	1680	2150	1140	331	800	1150	979	779
20	1730	1960	1800	e1020	1720	1600	1110	335	1050	1130	975	799
21	1740	1960	1740	e1040	1760	1160	1080	341	1120	1070	968	798
22	1740	1950	1650	e1050	1760	1130	1050	346	1230	1080	963	796
23	1750	1950	1540	1110	1800	1150	1020	340	1260	1110	958	819
24	1760	1950	1480	1270	1810	1150	981	348	1210	1130	956	750
25	1760	1950	1480	1450	1830	1160	943	343	1150	1100	948	689
26	1760	1930	1420	1540	1840	1240	910	384	1130	1080	946	680
27	1770	1930	1450	1490	1830	1370	883	391	1180	1100	946	703
28	1770	1920	1300	1420	1830	1370	854	383	1190	1130	949	711
29	1780	1920	1450	1360	---	1370	830	373	1200	1120	952	707
30	1790	1940	1420	1390	---	1350	810	380	1260	1100	956	663
31	1800	---	1300	1540	---	1340	---	377	---	1030	963	---
TOTAL	53700	56630	55440	36730	47880	52920	41281	10575	20054	36110	29883	25257
MEAN	1732	1888	1788	1185	1710	1707	1376	341	668	1165	964	842
MAX	1800	1960	2120	1540	1840	2160	2420	630	1260	1280	1000	999
MIN	1550	1780	1300	990	1650	1130	810	262	269	1030	917	663
ACFT	106500	112300	110000	72850	94970	105000	81880	20980	39780	71620	59270	50100
CAL YR 1984	TOTAL	621858	MEAN	1699	MAX	3250	MIN	860	ACFT	1233000		
WTR YR 1985	TOTAL	466460	MEAN	1278	MAX	2420	MIN	262	ACFT	925200		

e Estimated.

BEAR RIVER BASIN

229

10072800 EIGHTMILE CREEK NEAR SODA SPRINGS, ID

LOCATION.--Lat 42°32'15", long 111°34'20", in NW1/4NW1/4SE1/4 sec.20, T.10 S., R.42 E., Bear Lake County, Hydrologic Unit 16010202, on right bank below Wilson Creek, 15 ft below road bridge, 0.3 mi north of Eightmile Ranger Station, and 8.4 mi south of Soda Springs.

DRAINAGE AREA.--22.6 mi².

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,170 ft from topographic map.

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

AVERAGE DISCHARGE.--25 years, 17.6 ft³/s, 12,750 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 230 ft³/s June 1, 1984, gage height, 2.58 ft; minimum, 0.73 ft³/s Nov. 17, 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 176 ft³/s May 7, gage height, 2.46 ft, from high water mark, a result of clearing beaver dam from culverts 15 ft above gage; minimum daily, 3.9 ft³/s Feb. 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	7.6	5.6	6.1	e4.8	4.1	6.2	e70	60	17	8.5	5.6
2	9.9	8.0	5.3	e5.8	e5.0	4.1	8.4	e90	58	16	8.3	6.2
3	9.8	9.4	5.6	e5.6	e5.2	4.0	11	e110	57	15	8.2	6.6
4	9.7	8.2	5.5	e5.4	e5.4	4.0	10	e105	55	15	8.0	6.1
5	9.6	8.0	5.6	e5.5	5.2	4.2	11	e95	53	15	7.8	6.1
6	9.4	8.1	5.7	e5.8	4.9	4.1	13	e98	50	15	7.6	6.1
7	9.2	8.2	5.9	6.1	4.9	4.1	17	e98	49	15	7.3	6.1
8	9.2	8.0	6.0	6.1	4.3	4.2	25	101	47	15	7.0	6.1
9	9.0	8.0	6.2	6.1	4.3	4.2	32	107	45	14	6.7	6.1
10	8.5	7.2	6.5	e6.3	4.2	4.4	37	116	44	14	6.6	6.1
11	9.0	8.1	6.5	6.1	4.3	4.3	44	109	41	14	6.6	7.5
12	10	8.2	6.5	5.7	4.3	4.3	47	98	40	16	6.4	9.0
13	9.6	8.2	6.4	e5.6	4.3	4.1	49	84	38	14	6.2	6.9
14	9.2	8.1	6.1	e5.6	4.3	4.2	52	76	36	14	6.1	6.5
15	8.9	6.7	6.3	e5.6	4.3	4.3	53	76	34	13	5.9	e6.2
16	8.7	7.8	6.5	e5.5	4.3	4.5	51	69	33	13	5.8	e6.0
17	8.9	7.2	6.3	e5.4	4.1	4.8	50	69	31	12	5.7	e5.9
18	8.5	6.8	6.2	e5.6	4.1	5.0	51	69	30	12	5.7	6.5
19	8.5	7.6	6.3	5.8	4.1	5.2	49	70	28	11	5.4	8.0
20	8.3	7.2	6.5	5.8	4.2	5.5	47	72	26	11	5.5	e7.4
21	7.8	7.4	6.5	5.8	4.1	5.8	46	73	24	11	5.5	e6.6
22	7.7	7.1	6.5	e5.6	4.1	5.7	45	71	23	11	5.6	e6.6
23	7.6	6.8	6.5	e5.4	4.1	5.9	44	70	21	12	5.5	e6.4
24	8.0	6.9	6.5	e5.4	4.1	6.0	42	71	22	11	5.5	e6.4
25	8.0	7.0	6.4	e5.4	4.1	5.8	43	76	22	10	5.5	e6.4
26	8.3	6.0	6.6	e5.2	3.9	5.8	41	79	21	9.6	5.5	e6.2
27	8.2	5.8	6.6	e5.2	3.9	5.8	41	75	19	9.5	5.5	e6.2
28	7.6	5.9	6.7	e5.2	4.0	5.5	38	72	18	9.5	5.4	e6.2
29	8.4	5.8	6.7	e5.0	---	5.5	e45	69	18	10	5.5	e6.4
30	7.8	5.8	6.8	e5.0	---	5.3	e55	66	17	9.7	5.5	e6.4
31	8.0	---	6.5	e5.0	---	5.6	---	61	---	9.1	5.5	---
TOTAL	271.3	221.1	193.8	173.7	122.8	150.3	1103.6	2565	1060	393.4	195.8	194.8
MEAN	8.75	7.37	6.25	5.60	4.39	4.85	36.8	82.7	35.3	12.7	6.32	6.49
MAX	10	9.4	6.8	6.3	5.4	6.0	55	116	60	17	8.5	9.0
MIN	7.6	5.8	5.3	5.0	3.9	4.0	6.2	61	17	9.1	5.4	5.6
ACFT	538	439	384	345	244	298	2190	5090	2100	780	388	386
CAL YR 1984	TOTAL	10817.7	MEAN	29.6	MAX	216	MIN	4.1	ACFT	21460		
WTR YR 1985	TOTAL	6645.6	MEAN	18.2	MAX	116	MIN	3.9	ACFT	13180		

e Estimated.

BEAR RIVER BASIN

10075000 BEAR RIVER AT SODA SPRINGS, ID

LOCATION.--Lat 42°36'50", long 111°34'58", in NW1/4SW1/4NW1/4 sec.29, T.9 S., R.42 E., Caribou County, Hydrologic Unit 16010202, on left bank 800 ft upstream from Bailey Creek road bridge and 2 mi south of Soda Springs.

DRAINAGE AREA.--3,972 mi².

PERIOD OF RECORD.--May to September 1896, May, June 1898, and October 1953 to current year in reports of Geological Survey. Irrigation season only during 1944-49, 1951-53 in reports of Bear River Hydrometric Data (Geological Survey open-file report).

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,760 ft from topographic map. May 25 to Oct. 2, 1896, May 22 to July 1, 1898, staff gage at different datum. During irrigation season 1944-49, 1950-53, water-stage recorder at site 800 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--32 years, 736 ft³/s, 533,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,380 ft³/s June 9, 15, 1896, gage height, 8.40 ft, datum then in use; minimum, 41 ft³/s Nov. 16, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,230 ft³/s Apr. 11; minimum daily, 397 ft³/s June 10-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1800	2020	1920	711	1180	2020	1540	884	639	1360	1160	1050
2	1860	2040	1880	576	1180	2020	1600	433	602	1380	1100	1050
3	1920	2040	1960	556	1220	1970	1690	400	567	1380	1070	1060
4	1990	2150	1900	718	1220	1860	1780	401	519	1360	1060	1040
5	2010	2120	1940	961	1240	1940	1850	405	490	1350	1040	1020
6	2010	2080	1930	981	1280	2010	2020	410	472	1350	1030	969
7	2030	2110	1930	966	1260	2040	2280	623	478	1390	1010	913
8	1970	2100	1880	1330	1250	2080	2610	670	477	1390	1010	896
9	2030	2090	1820	1460	1180	2110	2820	702	409	1370	1010	892
10	2030	2120	1680	1360	1210	2030	3100	721	397	1340	1030	889
11	2020	2120	1650	1430	1230	1790	3230	715	397	1310	1050	877
12	2070	2090	1640	1380	1200	1640	2960	692	397	1310	1050	901
13	2060	2150	1590	1160	1190	1520	2520	680	397	1330	1050	898
14	2030	2160	1520	1040	1200	1610	2140	668	397	1320	1040	889
15	2030	2170	1470	1300	1190	1550	1920	645	397	1300	1050	872
16	2000	2150	1530	1210	1210	1480	1790	638	397	1270	1040	881
17	2000	2140	1480	1290	1210	1410	1670	641	397	1300	1040	885
18	2010	2180	1460	1300	1240	1430	1550	645	397	1300	1040	879
19	2020	2190	1420	1320	1220	1450	1430	631	438	1280	1040	902
20	2020	2220	1350	1340	1260	1510	1320	632	867	1270	1030	904
21	2000	2200	1290	1320	2000	1440	1220	632	1100	1240	1020	836
22	2010	2210	1220	1330	2030	1490	1120	638	1170	1180	983	791
23	2020	2180	1230	1310	2080	1410	1150	641	1260	1240	981	765
24	2030	2190	1250	1220	2080	1440	1270	633	1300	1250	987	777
25	2050	2180	974	1200	2030	1440	1220	634	1260	1260	988	788
26	2050	2170	738	1220	2090	1460	1190	636	1200	1220	980	792
27	2070	2100	714	1240	2170	1580	1140	639	1200	1200	987	786
28	2050	2000	746	1260	2060	1720	1110	641	1250	1210	999	730
29	2040	1960	793	1260	---	1620	1100	642	1270	1220	1010	694
30	2070	1940	830	1210	---	1590	1070	635	1300	1220	1030	688
31	1950	---	820	1220	---	1550	---	641	---	1210	1040	---
TOTAL	62250	63570	44555	36179	40910	52210	53410	19248	21841	40110	31955	26314
MEAN	2008	2119	1437	1167	1461	1684	1780	621	728	1294	1031	877
MAX	2070	2220	1960	1460	2170	2110	3230	884	1300	1390	1160	1060
MIN	1800	1940	714	556	1180	1410	1070	400	397	1180	980	688
ACFT	123500	126100	88370	71760	81140	103600	105900	38180	43320	79560	63380	52190
CAL YR 1984	TOTAL	674805	MEAN	1844	MAX	3510	MIN	714	ACFT	1338000		
WTR YR 1985	TOTAL	492552	MEAN	1349	MAX	3230	MIN	397	ACFT	977000		

BEAR RIVER BASIN

231

10076400 SODA CREEK AT FIVEMILE MEADOWS, NEAR SODA SPRINGS, ID

LOCATION.--Lat 42°43'45", long 111°36'55", in NW1/4NE1/4SW1/4 sec.13, T.8 S., R.41 E., Caribou County, Hydrologic Unit 16010202, on right bank 100 ft southeast of Lau ranchhouse, 150 ft downstream from Schmidt ditch, and 5 mi north of Soda Springs.

DRAINAGE AREA.--51.7 mi².

PERIOD OF RECORD.--October 1964 to current year. April 1923 to October 1926 published as "at Lau Ranch." Records since October 1964 equivalent if Schmidt ditch diversion is subtracted from flow past station.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,980 ft from topographic map. April 1923 to October 1926 at different datum and Oct. 1, 1964 to Aug. 26, 1965 at site 400 ft upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Records herein include flow in Schmidt ditch.

AVERAGE DISCHARGE.--21 years, 17.8 ft³/s, 12,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 130 ft³/s Apr. 10, 1985, gage height, 2.43 ft; maximum gage height, 4.01 ft Apr. 2, 1965, site and datum then in use; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 130 ft³/s Apr. 10, gage height, 2.43 ft; minimum daily discharge, 16 ft³/s Mar. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	41	35	e21	e20	e19	e21	45	45	35	32	29
2	45	41	34	e21	e20	e19	e21	45	45	35	32	29
3	44	44	35	e21	e20	e19	e21	45	44	35	31	29
4	44	44	e32	e21	e20	e19	e21	45	43	35	31	29
5	43	43	e23	e21	e20	e19	e21	45	42	35	31	28
6	43	43	e23	e21	e20	e19	23	46	42	34	31	28
7	42	43	e22	e21	e20	e19	27	47	41	34	30	28
8	41	43	e22	e21	e20	e19	34	47	41	34	30	28
9	42	42	e22	e21	e20	e19	56	47	41	34	30	28
10	42	41	e22	e21	e20	e19	108	50	40	33	30	28
11	42	41	e22	e21	e20	e19	125	51	40	33	30	28
12	44	42	e22	e20	e20	e19	108	50	40	34	30	29
13	44	43	e22	e20	e20	e19	87	49	40	34	30	28
14	44	44	e22	e20	e20	e19	72	48	39	33	29	27
15	43	42	e22	e20	e20	e19	63	49	39	33	29	28
16	43	41	e22	e20	e20	e19	56	49	39	33	29	27
17	44	40	e22	e20	e20	e19	51	48	39	33	29	27
18	43	39	e22	e19	e19	e18	49	48	38	33	29	28
19	43	39	e22	e19	e20	e18	48	48	38	33	29	28
20	43	38	e22	e18	e20	e18	47	47	38	32	28	27
21	42	38	e22	e18	e20	e17	47	46	38	32	28	27
22	41	37	e22	e18	e20	e17	48	46	38	33	28	28
23	41	37	e22	e17	e20	e17	48	46	38	33	28	27
24	41	37	e22	e17	e20	e17	48	46	37	33	28	26
25	41	38	e22	e17	e20	e16	48	48	38	32	28	26
26	41	37	e22	e17	e19	e23	47	47	37	32	28	26
27	42	36	e22	e18	e19	e21	46	47	37	32	28	26
28	41	36	e22	e18	e19	e21	46	46	36	32	30	25
29	42	35	e22	e19	---	e21	45	45	36	32	29	25
30	42	35	e21	e20	---	e21	45	45	35	32	29	24
31	42	---	e21	e20	---	e21	---	45	---	32	29	---
TOTAL	1320	1200	728	606	556	589	1527	1456	1184	1030	913	821
MEAN	42.6	40.0	23.5	19.5	19.9	19.0	50.9	47.0	39.5	33.2	29.5	27.4
MAX	45	44	35	21	20	23	125	51	45	35	32	29
MIN	41	35	21	17	19	16	21	45	35	32	28	24
ACFT	2620	2380	1440	1200	1100	1170	3030	2890	2350	2040	1810	1630
CAL YR 1984	TOTAL	13682	MEAN	37.4	MAX	118	MIN	21	ACFT	27140		
WTR YR 1985	TOTAL	11930	MEAN	32.7	MAX	125	MIN	16	ACFT	23660		

e Estimated.

BEAR RIVER BASIN

10079500 BEAR RIVER AT ALEXANDER, ID

LOCATION.--Lat 42°38'42", long 111°41'51", in NE1/4SW1/4NW1/4 sec.17, T.9 S., R.41 E., Caribou County, Hydrologic Unit 16010202, on right bank 600 ft downstream from Soda hydroelectric plant of Utah Power & Light Co., 0.5 mi southeast of Alexander, and 5 mi downstream from Soda Creek.

DRAINAGE AREA.--4,099 mi².

PERIOD OF RECORD.--March 1911 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,650 ft from topographic map.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--74 years, 809 ft³/s, 586,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,740 ft³/s Mar. 31, 1911; maximum gage height, 15.95 ft Dec. 11, 1919 (backwater from ice); minimum, 15 ft³/s Aug. 24, 1979, when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,860 ft³/s Apr. 12; minimum daily, 598 ft³/s May 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1870	2000	2210	1550	1280	1430	1930	1110	831	1370	1290	1250
2	1860	2010	2200	1530	1280	1420	1930	1010	840	1390	1290	1250
3	1970	2110	2130	1510	1250	1420	1920	747	846	1410	1280	1260
4	2050	2200	2070	1260	1220	1430	2020	752	848	1430	1210	1260
5	2050	2230	1340	1100	1220	1420	2180	747	790	1400	1170	1260
6	2050	2270	2150	1100	1070	1420	2250	598	742	1430	1170	1250
7	2050	2260	2150	1100	1070	1420	2330	672	719	1440	1170	1240
8	2050	2250	2150	1220	1130	1420	2570	714	742	1380	1170	1230
9	2050	2250	2150	1290	1130	1430	2890	717	764	1330	1160	1200
10	2070	2240	2280	1340	1130	1430	2830	756	774	1330	1160	1150
11	2070	2240	2360	1380	1190	1430	3340	823	781	1330	1160	1120
12	2080	1820	2260	1380	1230	1500	3860	823	785	1310	1160	1120
13	2080	2160	2200	1390	1230	1550	3840	881	744	1290	1160	1110
14	2080	2170	2110	1380	1230	1550	3610	881	720	1290	1160	1070
15	2080	2170	2000	1370	1230	1560	2580	880	748	1300	1170	1040
16	2080	2170	2020	1250	1230	1560	2010	880	743	1300	1170	1040
17	2080	2170	2030	1180	1230	1570	1720	871	794	1300	1170	1040
18	2080	2170	1950	1160	1230	1570	1620	871	833	1300	1170	1040
19	2080	2170	1880	1170	1230	1570	1530	873	997	1300	1170	1040
20	2080	2170	1890	1180	1230	1620	1550	863	1130	1310	1180	1040
21	2080	2200	2050	1270	1230	1670	1510	812	1220	1310	1180	1030
22	2080	2230	2180	1320	1230	1720	1450	814	1300	1310	1180	1030
23	2070	2250	2010	1300	1230	1720	1370	820	1380	1320	1160	1040
24	2070	2250	1880	1300	1240	1710	1380	824	1390	1320	1160	990
25	2130	2240	1850	1300	1250	1710	1380	834	1390	1330	1150	946
26	2210	2230	1530	1300	1260	1730	1330	850	1380	1360	1140	947
27	2230	2230	1340	1300	1360	1710	1280	862	1320	1360	1130	941
28	2220	2170	1410	1290	1430	1770	1270	869	1240	1360	762	932
29	2210	2110	1470	1290	---	1750	1230	882	1300	1340	1020	932
30	2210	2140	1470	1290	---	1900	1170	893	1340	1290	1200	882
31	1670	---	1510	1290	---	1450	---	868	---	1290	1230	---
TOTAL	64040	65280	60230	40090	34270	48560	61880	25797	29431	41530	36052	32680
MEAN	2066	2176	1943	1293	1224	1566	2063	832	981	1340	1163	1089
MAX	2230	2270	2360	1550	1430	1900	3860	1110	1390	1440	1290	1260
MIN	1670	1820	1340	1100	1070	1420	1170	598	719	1290	762	882
ACFT	127000	129500	119500	79520	67970	96320	122700	51170	58380	82370	71510	64820
CAL YR 1984	TOTAL	733631	MEAN	2004	MAX	3630	MIN	768	ACFT	1455000		
WTR YR 1985	TOTAL	539840	MEAN	1479	MAX	3860	MIN	598	ACFT	1071000		

BEAR RIVER BASIN

233

10084500 COTTONWOOD CREEK NEAR CLEVELAND, ID

LOCATION.--Lat 42°19'57", long 111°46'27", in NW1/4SE1/4SW1/4 sec.34, T.12 S., R.40 E., Franklin County, Hydrologic Unit 16010202, on right bank 500 ft upstream from Cleveland Irrigation canal, 2.5 mi west of Cleveland, and 4 mi downstream from proposed Cottonwood Dam.

DRAINAGE AREA.--61.7 mi².

PERIOD OF RECORD.--November 1938 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,150 ft from topographic map. Prior to Dec. 29, 1944, nonrecording gage at same site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. A few small diversions for irrigation of meadowland in Cottonwood Valley above station. Treasureton Canal diverts from Cottonwood Creek 10.1 mi above station for irrigation in Battle Creek basin in vicinity of Treasureton.

AVERAGE DISCHARGE.--46 years, 33.5 ft³/s, 24,270 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,090 ft³/s May 15, 1984, gage height, 4.34 ft; minimum, no flow Feb. 19-21, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 11	2100	*576	3.63	No other peak greater than base discharge.			

Minimum discharge, 4.8 ft³/s Aug. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	24	19	e11	e6.0	e13	46	129	39	11	9.5	5.1
2	19	26	15	e8.0	e6.0	e20	62	137	37	10	9.2	5.3
3	18	38	11	e7.0	e10	e13	109	153	34	10	9.3	5.8
4	18	31	e9.5	e7.0	e11	e13	113	149	33	10	11	5.9
5	18	28	e8.0	e7.0	e9.0	e15	105	126	31	11	10	5.9
6	17	27	e8.0	e7.0	e11	e12	142	113	28	9.7	10	5.9
7	17	28	e8.0	e9.0	e17	e13	186	106	25	9.7	9.8	5.9
8	17	28	e10	e13	e21	e16	276	102	22	11	9.3	5.9
9	17	26	14	e17	e15	e17	333	99	20	11	9.3	5.9
10	16	21	16	e19	e14	e16	357	146	19	11	9.3	5.9
11	18	30	e19	e17	e12	e15	393	120	17	11	9.1	6.0
12	30	29	e14	e7.0	e13	e13	378	99	14	13	9.5	12
13	26	28	e11	e6.0	e18	e13	334	89	14	13	9.4	13
14	24	28	e9.0	e6.2	e17	e13	329	81	14	12	9.1	11
15	22	22	e7.0	e10	e13	e15	315	100	14	11	8.9	10
16	21	26	e7.4	e15	e15	e18	309	85	13	12	8.7	9.6
17	23	23	e8.1	e18	e15	e22	301	79	13	11	8.5	9.2
18	24	22	e7.0	e18	e13	e27	261	84	13	11	7.3	11
19	23	27	e8.0	e18	e11	e35	230	73	12	12	7.1	13
20	22	22	e9.0	e18	e13	e45	186	76	12	12	7.0	12
21	22	24	e13	e20	e15	e47	165	75	11	11	6.4	11
22	21	22	e16	e21	e16	48	154	68	11	11	6.0	11
23	23	21	20	e12	e17	47	138	63	11	15	5.8	11
24	26	25	e19	e10	e16	47	131	58	11	13	5.6	10
25	25	25	e15	e10	e18	46	119	58	16	12	5.4	10
26	28	20	e8.0	e10	e13	46	104	56	14	11	5.3	10
27	27	16	e9.0	e12	e14	46	98	53	14	12	5.2	10
28	25	20	e15	e14	e12	46	98	44	12	10	5.1	10
29	28	21	e13	e16	---	46	105	42	11	11	5.0	10
30	27	21	e12	e16	---	46	119	42	11	11	5.0	11
31	28	---	e17	e10	---	46	---	41	---	10	5.0	---
TOTAL	689	749	375.0	389.2	381.0	875	5996	2746	546	349.4	241.1	268.3
MEAN	22.2	25.0	12.1	12.6	13.6	28.2	200	88.6	18.2	11.3	7.78	8.94
MAX	30	38	20	21	21	48	393	153	39	15	11	13
MIN	16	16	7.0	6.0	6.0	12	46	41	11	9.7	5.0	5.1
ACFT	1370	1490	744	772	756	1740	11890	5450	1080	693	478	532

CAL YR 1984	TOTAL	26749.0	MEAN	73.1	MAX	681	MIN	7.0	ACFT	53060
WTR YR 1985	TOTAL	13605.0	MEAN	37.3	MAX	393	MIN	5.0	ACFT	26990

e Estimated.

BEAR RIVER BASIN

10086500 BEAR RIVER BELOW UTAH POWER & LIGHT CO.'S TAILRACE, AT ONEIDA, ID

LOCATION.--Lat 42°16'00", long 111°45'04", in NE1/4SE1/4NW1/4 sec.26, T.12 S., R.40 E., Franklin County, Hydrologic Unit 16010202, on right bank 200 ft downstream from tailrace of Oneida plant and 6 mi south of Cleveland.

DRAINAGE AREA.--4,456 mi².

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only October 1921 to September 1945, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,800 ft from topographic map.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--64 years, 888 ft³/s, 643,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,480 ft³/s May 8, 1922; minimum, 3.0 ft³/s June 13, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,090 ft³/s Dec. 5, gage height, 8.45 ft; minimum daily, 56 ft³/s Nov. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2110	2260	2400	1670	1610	1640	2180	1540	1070	1000	1080	1100
2	2090	2230	2440	1680	1420	1640	2620	1500	1020	1030	1150	1150
3	2100	2300	2370	1680	1550	1580	2840	1320	989	1060	1150	1180
4	2090	2310	2310	1670	1530	1630	2710	1240	946	1070	1630	1220
5	2720	2500	1190	1480	1330	1620	2890	1220	897	1090	544	1220
6	2110	2570	1760	1320	1260	1600	2970	1150	788	1110	1100	1210
7	2240	2660	2120	1300	1310	1620	3220	989	684	1120	1100	1210
8	2260	2420	2260	1270	1360	1620	3800	1040	580	1120	1030	1210
9	2290	2750	2340	1440	1430	1620	3880	1080	480	992	996	1210
10	2250	2750	2240	1560	1470	1610	4040	1140	440	979	971	1220
11	2530	2740	2540	1660	1490	1620	4140	1220	363	977	970	1210
12	2020	3220	2580	1680	1570	1650	4260	1230	401	1010	838	1150
13	2320	3270	2420	1510	1560	1670	4240	1230	319	1020	960	1190
14	2240	3200	2290	1380	1500	1680	4120	1220	310	1020	1000	1190
15	2460	3140	2250	1510	1520	1710	3560	1220	317	1020	1000	1180
16	2070	2780	2240	1730	1530	1720	2950	1230	310	1030	1000	1120
17	2360	2520	2160	1670	1460	1720	2500	1220	306	1050	1000	1120
18	2430	2590	2100	1600	1440	1720	2530	1210	299	1100	999	1110
19	2340	2590	2170	1630	1480	1740	2480	1200	297	1110	979	1120
20	2240	2610	2170	1580	1440	1790	2340	1190	339	1090	984	1140
21	2330	2570	2220	1550	1440	1860	2270	1190	456	1060	988	1150
22	2310	2580	2380	1580	1430	1890	2210	1180	586	1040	995	1160
23	2470	2580	2350	1540	1440	1900	2070	1170	749	1040	1000	1190
24	2480	2630	2160	1510	1460	1920	2000	1160	915	1050	1000	1200
25	2210	2580	2040	1500	1450	1930	1980	1160	1070	1090	1000	1190
26	2060	739	1950	1520	1460	1930	1900	1160	1100	1130	1000	1160
27	2490	56	1710	1590	1530	1920	1810	1160	1090	1160	1010	1140
28	2500	1410	1640	1610	1610	1980	1800	1150	1060	1170	1010	1120
29	2590	2360	1640	1680	---	1960	1750	1150	962	1170	707	1120
30	2360	2330	1640	1670	---	2010	1660	1140	966	1160	912	1120
31	2190	---	1650	1650	---	1840	---	1100	---	1150	1040	---
TOTAL	71260	73245	65730	48420	41080	54340	83720	37109	20109	33218	31143	35010
MEAN	2299	2442	2120	1562	1467	1753	2791	1197	670	1072	1005	1167
MAX	2720	3270	2580	1730	1610	2010	4260	1540	1100	1170	1630	1220
MIN	2020	56	1190	1270	1260	1580	1660	989	297	977	544	1100
ACFT	141300	145300	130400	96040	81480	107800	166100	73610	39890	65890	61770	69440
CAL YR 1984	TOTAL	919594	MEAN	2513	MAX	4790	MIN	56	ACFT	1824000		
WTR YR 1985	TOTAL	594384	MEAN	1628	MAX	4260	MIN	56	ACFT	1179000		

BEAR RIVER BASIN

235

10090500 BEAR RIVER NEAR PRESTON, ID

LOCATION.--Lat 42°10'05", long 111°50'59", in NW1/4NE1/4NW1/4 sec.36, T.14 S., R.39 E., Franklin County, Hydrologic Unit 16010202, on left bank 600 ft downstream from headgates of West Cache Canal, 5 mi downstream from Mink Creek, 5 mi north of Preston, and 5.5 mi upstream from Battle Creek.

DRAINAGE AREA.--4,545 mi².

PERIOD OF RECORD.--October 1889 to December 1916, January to September 1917 (gage heights only), October 1943 to current year. Prior to 1903 published as "at Battlecreek". Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 205: 1905-7. WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,524.8 ft NGVD of 1929, unadjusted. October 1889 to September 1917, nonrecording gages at several sites within 5 mi downstream at different datums.

REMARKS.--Records good. Station is below all irrigation diversions from Bear River in Idaho except Cub River pumps in SE1/4 sec.20, T.16 S., R.39 E. Natural flow of stream affected by storage reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--42 years (water years 1944-85), 954 ft³/s, 691,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (since 1943).--Maximum discharge, 4,720 ft³/s April 11, 1985, gage height, 5.51 ft; no flow Sept. 10-11, 1980.

1889-1917: Maximum flood occurred June 9, 10, 1907 about 8,500 ft³/s, estimated on basis of records for downstream station Bear River near Collinston (station 10118000), site and datum then in use. Maximum gage height observed, 9.04 ft Jan. 17, 18, 1917 (backwater from ice), site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,720 ft³/s Apr. 11, gage height, 5.51 ft; minimum daily, 97 ft³/s June 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2550	2110	2460	1720	e1600	1550	1830	1710	1100	842	1070	1070
2	2190	2310	2520	1730	e1520	1610	2190	1670	1020	864	1140	1130
3	2200	2410	2480	1740	e1600	1620	2750	1610	963	893	1150	1170
4	2260	2400	2410	e1700	e1600	1570	3000	1540	892	908	1450	1180
5	2430	2570	2090	e1550	e1500	1610	2850	1490	819	924	994	1180
6	2140	2570	2050	e1450	e1400	1600	3020	1440	691	947	806	1180
7	2490	2820	2360	e1400	e1450	1600	3150	1240	570	954	1130	1180
8	2430	2480	2410	1330	e1450	1620	3380	1170	479	962	1080	1180
9	2400	2870	2470	1390	1490	1610	4060	1210	393	901	1040	1180
10	2410	2850	2380	1490	1490	1610	4180	1310	289	842	1030	1180
11	2530	2850	2620	1560	1520	1620	4330	1390	283	849	1030	1170
12	2530	3180	2730	1600	1490	1630	4470	1400	256	908	924	1140
13	2050	3380	2620	1500	1560	1650	4540	1390	156	916	1030	1170
14	2550	3320	e2600	1480	1570	1680	4530	1390	156	916	1080	1160
15	2600	3240	e2400	1520	1610	1690	4410	1430	128	931	1080	1130
16	2450	2960	e2400	1710	1560	1720	3860	1410	120	939	1080	1090
17	2410	2590	2340	e1650	1560	1740	3220	1390	111	962	1070	1090
18	2500	2640	2310	e1630	1570	1740	2820	1400	97	1010	1050	1140
19	2390	2620	e2300	e1610	1490	1770	2850	1400	113	1030	1020	1200
20	2190	2650	e2300	e1600	1490	1800	2740	1400	206	1010	1010	1210
21	2590	2630	e2300	1510	1480	1850	2560	1370	368	1000	1000	1210
22	2440	2630	e2400	1550	1470	1890	2490	1360	510	986	994	1220
23	2430	2610	2430	1620	1470	1910	2390	1340	703	986	986	1250
24	2870	2680	2310	e1600	1450	1920	2240	1310	874	1010	978	1250
25	2300	2630	2230	e1550	1450	1970	2170	1310	935	1040	978	1240
26	2050	1260	e2100	e1550	1460	1970	2070	1320	931	1080	978	1230
27	2520	137	2080	e1600	1450	1960	1930	1310	930	1130	970	1250
28	2530	1180	1700	e1700	1480	1930	1860	1280	909	1130	970	1220
29	2640	2450	1670	e1700	---	1970	1850	1260	821	1130	589	1200
30	2650	2390	1690	e1700	---	1950	1780	1220	799	1130	939	1200
31	2400	---	1700	e1650	---	2030	---	1160	---	1130	1010	---
TOTAL	75120	75417	70860	49090	42230	54390	89520	42630	1662	30260	31656	35400
MEAN	2423	2514	2286	1584	1508	1755	2984	1375	554	976	1021	1180
MAX	2870	3380	2730	1740	1610	2030	4540	1710	1100	1130	1450	1250
MIN	2050	137	1670	1330	1400	1550	1780	1160	97	842	589	1070
ACFT	149000	149600	140600	97370	83760	107900	177600	84560	32970	60020	62790	70220
CAL YR 1984	TOTAL	905196	MEAN	2473	MAX	4630	MIN	137	ACFT	1795000		
WTR YR 1985	TOTAL	613195	MEAN	1680	MAX	4540	MIN	97	ACFT	1216000		

e Estimated.

BEAR RIVER BASIN

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE

LOCATION.--Lat 42°00'47", long 111°55'14", in NW1/4NE1/4 sec.29, T.16 S., R.39 E., Franklin County, Idaho, Hydrologic Unit 16010202, on left bank 1,050 ft downstream from inlet canal to Cub River pumps, 1.1 mi downstream from Weston Creek, 1.8 mi upstream from Idaho-Utah State line, and 3.5 mi southeast of Weston.

DRAINAGE AREA.--4,881 mi².

PERIOD OF RECORD.--October 1970 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft from topographic map. Prior to Sept. 10, 1982 at datum 2.00 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--15 years, 1,388 ft³/s, 1,006,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,870 ft³/s June 14, 1984, gage height, 9.20 ft; minimum observed, 73 ft³/s June 29, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,780 ft³/s Apr. 12, gage height, 9.11 ft; minimum daily, 110 ft³/s June 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2060	1890	2640	1930	e1720	1790	2310	2100	1200	801	1100	1020
2	2000	1990	2720	1970	e1700	1820	2610	2010	1150	816	1070	1140
3	1950	2140	2690	1960	e1800	1830	3380	2010	1090	841	1090	1180
4	2000	2130	2650	e1900	e1800	1770	4060	1890	1010	846	1150	1230
5	2170	2300	2420	e1800	e1700	1800	3890	1830	951	857	1440	1230
6	2060	2330	2340	e1700	e1600	1810	3800	1780	823	869	444	1220
7	2080	2600	2490	e1600	e1670	1780	3900	1640	705	881	1000	1210
8	2160	2310	2740	e1500	e1700	1780	3920	1480	601	901	955	1200
9	2150	2660	2730	e1600	e1700	1780	4340	1480	523	868	893	1210
10	2160	2660	2640	1710	e1700	1770	4570	1530	497	760	866	1200
11	2240	2660	2660	1720	e1720	1780	4550	1640	e390	772	850	1230
12	2460	2760	2950	1790	e1700	1800	4720	1660	e300	841	865	1250
13	2170	3280	2860	e1700	e1740	1800	4720	1620	e170	923	753	1230
14	2290	3240	2750	e1700	e1780	1830	4700	1590	e170	928	877	1230
15	2010	3150	2770	e1750	e1800	1850	4650	1630	e150	933	897	1210
16	2260	3070	2740	e1900	e1750	1860	4420	1640	e140	937	907	1140
17	2160	2500	2720	e1800	e1750	1920	3930	1580	e130	926	913	1140
18	2220	2420	2760	e1780	e1750	1920	3330	1570	e110	972	917	1150
19	2120	2420	e2700	e1750	e1700	1940	3260	1560	e120	1010	903	1240
20	2000	2430	e2600	e1750	e1700	1980	3200	1550	e240	1000	885	1240
21	2140	2430	e2600	e1700	e1700	2030	3030	1490	303	994	873	1250
22	2150	2400	e2650	e1750	e1700	2070	2920	1460	407	1010	884	1260
23	2180	2380	e2700	e1800	e1700	2100	2840	1440	573	1000	887	1260
24	2590	2470	e2600	e1750	e1680	2160	2680	1400	734	1030	893	1290
25	1990	2430	e2500	e1720	e1680	2260	2550	1370	904	1040	910	1280
26	1750	2100	e2400	e1700	e1700	2270	2480	1370	914	1070	917	1270
27	2210	664	e2300	e1750	1720	2280	2400	1360	908	1100	916	1270
28	2220	734	e2000	e1850	1720	2250	2260	1320	896	1110	923	1260
29	2370	2620	e1900	e1850	---	2240	2240	1300	839	1140	930	1250
30	2380	2610	e1950	e1850	---	2240	2190	1300	756	1160	923	1240
31	2130	---	e1940	e1800	---	2340	---	1260	---	1130	914	---
TOTAL	66830	71778	79110	54830	48080	60850	103850	48860	17704	29466	28745	36530
MEAN	2156	2393	2552	1769	1717	1963	3462	1576	590	951	927	1218
MAX	2590	3280	2950	1970	1800	2340	4720	2100	1200	1160	1440	1290
MIN	1750	664	1900	1500	1600	1770	2190	1260	110	760	444	1020
ACFT	132600	142400	156900	108800	95370	120700	206000	96910	35120	58450	57020	72460
CAL YR 1984	TOTAL	961518	MEAN	2627	MAX	4790	MIN	664	ACFT	1907000		
WTR YR 1985	TOTAL	646633	MEAN	1772	MAX	4720	MIN	110	ACFT	1283000		

e Estimated.

BEAR RIVER BASIN

237

10093000 CUB RIVER NEAR PRESTON, ID

LOCATION.--Lat 42°08'25", long 111°41'26", in NW1/4NW1/4NE1/4 sec.8, T.15 S., R.41 E., Franklin County, Hydrologic Unit 16010202, Cache National Forest, on right bank 0.2 mi upstream from headgates of Cub River-Worm Creek Canal, 0.7 mi upstream from forest boundary, and 10 mi east of Preston.

DRAINAGE AREA.--31.6 mi².

PERIOD OF RECORD.--March 1940 to September 1952, October 1955 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,285.1 ft NGVD of 1929, unadjusted.

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

AVERAGE DISCHARGE.--42 years, 86.5 ft³/s, 62,670 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 840 ft³/s June 18, 1982, gage height, 2.80 ft at different datum; maximum gage height, 3.83 ft June 2, 1943; no flow for part of Jan. 29, 1965, result of snowslide.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 473 ft³/s May 26, gage height, 3.07 ft; minimum daily discharge, 20 ft³/s Feb. 27-Mar. 1, Mar. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	32	29	25	e23	e20	29	149	248	79	45	33
2	42	32	29	26	e23	e22	35	203	226	77	45	35
3	42	33	28	26	e23	e21	47	281	214	75	45	33
4	42	32	28	25	e23	e20	50	378	224	73	44	33
5	41	31	28	25	e24	e20	49	364	241	72	43	33
6	41	32	27	25	e25	e21	53	314	248	70	43	33
7	40	33	27	25	e27	22	60	330	261	68	42	33
8	39	33	27	25	e27	21	71	365	276	67	42	32
9	38	33	27	25	e27	21	84	395	282	65	41	32
10	38	32	27	24	e25	22	94	393	266	63	41	32
11	40	32	27	24	e25	22	102	388	241	62	41	35
12	39	32	27	e23	e26	23	108	321	221	65	40	34
13	38	33	27	e23	23	23	111	275	210	61	40	33
14	38	33	e27	e23	22	23	120	240	201	59	39	35
15	38	33	27	23	22	23	139	225	191	58	39	33
16	37	32	27	23	22	26	176	233	182	58	38	34
17	38	32	26	24	22	30	206	291	173	56	38	35
18	37	31	26	23	22	34	227	328	161	55	38	32
19	36	31	26	23	22	36	239	349	147	53	38	30
20	36	30	26	23	22	40	217	364	139	53	37	30
21	35	30	26	23	22	40	184	354	130	52	37	30
22	34	30	26	23	22	36	152	374	120	52	36	30
23	34	30	26	e23	22	33	129	385	114	51	36	29
24	34	30	26	e23	22	33	113	410	108	50	36	29
25	33	30	25	e23	22	35	104	444	105	50	36	29
26	34	30	25	23	e21	34	95	463	98	49	35	29
27	33	30	25	23	e20	33	87	457	93	49	35	28
28	33	30	26	23	e20	32	83	422	88	48	35	28
29	33	30	25	23	---	30	84	380	84	48	34	28
30	33	29	25	e23	---	29	105	329	82	47	34	29
31	33	---	25	e23	---	29	---	285	---	46	33	---
TOTAL	1151	941	823	736	646	854	3353	10489	5374	1831	1206	949
MEAN	37.1	31.4	26.5	23.7	23.1	27.5	112	338	179	59.1	38.9	31.6
MAX	42	33	29	26	27	40	239	463	282	79	45	35
MIN	33	29	25	23	20	20	29	149	82	46	33	28
ACFT	2280	1870	1630	1460	1280	1690	6650	20800	10660	3630	2390	1880
CAL YR 1984	TOTAL	50916	MEAN	139	MAX	776	MIN	25	ACFT	101000		
WTR YR 1985	TOTAL	28353	MEAN	77.7	MAX	463	MIN	20	ACFT	56240		

e Estimated.

BEAR RIVER BASIN

10099000 HIGH CREEK NEAR RICHMOND, UT

LOCATION.--Lat 41°58'40", long 111°44'55", in SW1/4SW1/4SE1/4 sec.5, T.14 N., R.2 E., Cache County, Cache National Forest, Hydrologic Unit 16010202, on right bank near forest boundary, 2 mi downstream from North Fork, and 5 mi northeast of Richmond.

DRAINAGE AREA.--16.2 mi².

PERIOD OF RECORD.--April to September 1944, April to September 1945 (monthly discharge only, published in WSP 1314), April 1946 to September 1952, February 1971 to September 1972, October 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,250 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--14 years (1946-52, 1972, 1979-85), 29.2 ft³/s, 25,650 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 485 ft³/s May 30, 1983, gage height, 3.24 ft; maximum gage height, 3.67 ft Feb. 1-15, 1972, backwater from ice; minimum observed, 2.6 ft³/s Jan. 5, 1950, result of ice jam upstream.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 130 ft³/s May 26, peaks above base of 100 ft³/s not determined; minimum daily, 8.2 ft³/s Feb. 15-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	15	14	e11	e9.0	9.0	16	68	76	35	19	14
2	15	15	14	e11	e9.4	9.1	17	90	74	34	19	14
3	15	18	13	e10	e9.2	9.2	27	115	76	34	20	14
4	14	18	13	e10	e10	8.8	34	115	83	31	19	14
5	14	17	12	10	e11	8.8	30	104	87	32	18	13
6	14	17	12	10	e10	8.8	30	91	87	31	18	13
7	14	17	12	10	e10	8.8	39	90	87	31	18	13
8	13	16	11	10	e10	8.6	57	102	99	31	18	13
9	13	16	11	10	e10	8.5	55	106	84	30	18	13
10	13	16	11	10	e9.6	8.8	60	107	74	29	18	13
11	14	16	12	10	e9.4	9.6	69	105	74	28	17	15
12	16	16	12	10	e9.1	11	75	91	71	30	17	15
13	15	16	11	e9.6	8.6	12	76	77	70	28	17	13
14	15	17	e11	e9.4	8.4	12	81	74	68	26	17	13
15	15	17	e11	e9.4	8.2	13	93	76	66	26	17	13
16	14	17	e11	10	8.2	15	103	78	63	26	17	13
17	14	16	12	10	8.2	17	110	78	56	25	17	13
18	14	16	11	10	8.2	20	110	88	56	24	16	13
19	13	16	10	10	8.2	20	112	97	55	23	16	13
20	13	15	10	10	9.1	22	89	96	51	23	16	13
21	13	15	10	10	9.1	23	77	95	49	23	16	12
22	13	15	10	9.8	9.1	20	65	97	47	23	16	12
23	13	15	10	e10	9.1	18	56	102	46	22	16	12
24	13	15	10	e10	9.1	17	52	108	42	22	16	12
25	13	15	10	e9.6	9.1	17	49	114	42	23	15	12
26	13	15	10	e10	9.1	17	45	130	40	22	15	12
27	13	14	10	e10	9.1	19	42	113	39	22	15	11
28	13	14	11	e10	9.1	17	41	108	38	22	15	11
29	14	14	11	e10	---	17	43	108	38	22	15	11
30	15	14	11	e10	---	16	52	98	37	21	15	11
31	15	---	11	e9.4	---	16	---	85	---	20	15	---
TOTAL	431	473	348	309.2	256.6	437.0	1805	3006	1875	819	521	384
MEAN	13.9	15.8	11.2	9.97	9.16	14.1	60.2	97.0	62.5	26.4	16.8	12.8
MAX	16	18	14	11	11	23	112	130	99	35	20	15
MIN	13	14	10	9.4	8.2	8.5	16	68	37	20	15	11
ACFT	855	938	690	613	509	867	3580	5960	3720	1620	1030	762
CAL YR 1984	TOTAL	18087	MEAN	49.4	MAX	330	MIN	10	ACFT	35880		
WTR YR 1985	TOTAL	10664.8	MEAN	29.2	MAX	130	MIN	8.2	ACFT	21150		

e Estimated.

BEAR RIVER BASIN

239

10104700 LITTLE BEAR RIVER BELOW DAVENPORT CREEK, NEAR AVON, UT

LOCATION.--Lat 41°30'43", long 111°48'37", in SW1/4SW1/4SW1/4 sec.14, T.9 N., R.1 E., Cache County, Hydrologic Unit 16010203, on right bank 0.65 mi downstream from Davenport Creek and 1.5 mi south of Avon.

DRAINAGE AREA.--61.6 mi².

PERIOD OF RECORD.--October 1960 to current year. Published as "10105700 South Fork Little Bear River near Avon," 1960-62.

REVISED RECORDS.--WRD UT-74-1: Drainage area. WDR UT-82-1: 1980-81 (M).

GAGE.--Water-stage recorder. Altitude of gage is 5,020 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. A few small diversions for irrigation above station.

AVERAGE DISCHARGE.--25 years, 60.4 ft³/s, 43,760 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,180 ft³/s Apr. 11, 1982, gage height, 4.43 ft at datum then in use; minimum, 6.3 ft³/s Feb. 3, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 481 ft³/s Apr. 8, 9, gage height, 3.38 ft; minimum daily, 37 ft³/s several days during January and February.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e53	52	46	43	37	38	80	156	116	58	46	38
2	e53	50	43	40	38	39	154	181	110	57	45	43
3	e52	85	43	39	39	39	253	223	107	56	46	39
4	e51	56	40	39	38	40	195	253	103	55	44	39
5	e51	50	40	40	38	39	190	225	100	55	43	39
6	e51	48	40	42	37	38	216	210	98	54	43	39
7	e50	49	41	43	37	39	247	209	96	53	42	39
8	e50	65	45	43	38	39	304	219	93	52	41	39
9	e50	62	45	41	38	39	356	220	91	51	42	39
10	e50	55	44	41	38	42	283	260	88	50	42	39
11	e52	57	45	40	38	47	272	228	85	50	42	42
12	e57	61	44	39	38	49	249	191	81	51	42	51
13	e53	83	42	39	37	45	231	157	79	53	41	39
14	e53	69	40	39	37	44	228	146	76	51	41	39
15	e52	57	41	41	37	45	234	180	75	50	41	39
16	e53	54	45	39	38	47	248	148	73	50	40	39
17	e54	52	40	39	37	54	254	154	71	49	40	39
18	e54	49	42	40	38	65	242	169	69	50	40	41
19	e55	48	43	40	39	75	253	173	68	50	40	47
20	e55	47	45	39	40	84	207	166	68	50	39	40
21	e54	47	44	39	39	81	188	160	68	50	39	39
22	e54	46	44	39	38	67	186	156	66	52	39	39
23	e54	46	44	40	38	68	180	158	65	55	39	39
24	e53	47	44	40	38	107	150	161	66	51	39	39
25	e54	50	40	39	38	109	135	158	70	49	39	39
26	e55	47	43	39	39	80	125	156	66	48	39	39
27	e57	45	46	39	39	73	117	147	63	48	39	39
28	e56	48	47	39	40	66	115	137	61	47	39	39
29	e61	47	45	39	---	63	118	133	60	47	39	39
30	56	46	44	38	---	58	133	134	59	48	39	39
31	63	---	44	37	---	60	---	120	---	47	38	---
TOTAL	1666	1618	1339	1234	1066	1779	6143	5488	2391	1587	1268	1199
MEAN	53.7	53.9	43.2	39.8	38.1	57.4	205	177	79.7	51.2	40.9	40.0
MAX	63	85	47	43	40	109	356	260	116	58	46	51
MIN	50	45	40	37	37	38	80	120	59	47	38	38
ACFT	3300	3210	2660	2450	2110	3530	12180	10890	4740	3150	2520	2380
CAL YR 1984	TOTAL	38190	MEAN	104	MAX	565	MIN	40	ACFT	75750		
WTR YR 1985	TOTAL	26778	MEAN	73.4	MAX	356	MIN	37	ACFT	53110		

e Estimated.

BEAR RIVER BASIN

10104900 EAST FORK LITTLE BEAR RIVER ABOVE RESERVOIR, NEAR AVON, UT

LOCATION.--Lat 41°31'06", long 111°42'49", in SE1/4NW1/4NW1/4 sec.15, T.9 N., R.2 E., Cache County, Hydrologic Unit 16010203, on right bank 1.2 mi upstream from Porcupine Creek, 1.7 mi upstream from Porcupine Dam, 5.2 mi east of Avon, and 7.2 mi southeast of Paradise.

DRAINAGE AREA.--56.7 mi².

PERIOD OF RECORD.--October 1963 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,398 ft from topographic map.

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

AVERAGE DISCHARGE.--22 years, 39.1 ft³/s, 28,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,110 ft³/s May 12, 1984, gage height, 3.98 ft; minimum, 2.2 ft³/s Feb. 26, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 642 ft³/s Apr. 15, gage height, 3.01 ft; minimum, 8.6 ft³/s Jan. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	15	16	15	e11	e13	36	197	55	23	16	11
2	14	15	15	14	e12	e15	45	210	51	23	16	13
3	14	19	15	15	e13	e14	69	223	50	22	16	12
4	14	18	15	15	e12	e14	92	227	51	22	16	11
5	14	16	15	15	e12	e14	84	201	46	22	15	11
6	14	16	14	15	e13	e14	97	174	44	20	15	11
7	14	16	15	16	e14	15	133	158	42	20	15	10
8	13	16	15	18	e14	15	194	149	40	20	14	10
9	13	16	15	18	e13	15	310	144	38	20	14	10
10	13	15	15	18	e13	16	315	184	38	19	14	10
11	14	16	16	17	e13	17	330	173	37	19	14	11
12	15	16	16	12	e14	20	340	141	36	19	14	13
13	14	18	15	e12	e13	19	332	120	35	20	14	11
14	14	19	14	e12	e12	20	359	106	33	18	13	10
15	14	18	15	e13	e12	22	401	128	32	18	13	9.8
16	13	18	16	e13	e12	26	426	111	32	18	13	9.8
17	14	18	15	e13	e12	29	435	102	32	18	13	9.6
18	14	17	15	e14	e13	36	334	99	31	17	13	10
19	14	17	16	e15	e14	43	305	97	29	17	12	12
20	14	17	15	e15	e15	46	218	93	29	17	12	10
21	14	16	15	e14	e14	48	192	91	28	18	12	10
22	13	16	15	e13	e14	44	167	86	27	17	12	10
23	13	16	15	e13	e14	40	159	81	27	19	12	10
24	13	17	15	e13	e14	40	144	76	26	18	11	9.8
25	13	17	14	e13	e14	46	126	71	27	17	11	9.5
26	14	16	15	e13	e13	46	113	69	28	18	11	9.5
27	14	15	15	e14	e13	45	106	65	26	18	11	9.5
28	13	16	16	e14	e13	41	117	62	26	17	11	9.5
29	14	16	16	e14	---	39	142	59	24	17	11	9.7
30	15	16	16	e13	---	36	172	59	23	17	11	10
31	16	---	16	e11	---	36	---	57	---	16	11	---
TOTAL	430	497	471	440	366	884	6293	3813	1041	584	406	312.7
MEAN	13.9	16.6	15.2	14.2	13.1	28.5	210	123	34.7	18.8	13.1	10.4
MAX	16	19	16	18	15	48	435	227	53	23	16	13
MIN	13	15	14	11	11	13	36	57	23	16	11	9.5
ACFT	853	986	934	873	726	1750	12480	7560	2060	1160	805	620

CAL YR 1984	TOTAL	26026	MEAN	71.1	MAX	772	MIN	13	ACFT	51620
WTR YR 1985	TOTAL	15537.7	MEAN	42.6	MAX	435	MIN	9.5	ACFT	30820

e Estimated.

BEAR RIVER BASIN

241

10106000 LITTLE BEAR RIVER NEAR PARADISE, UT

LOCATION (REVISED).--Lat $41^{\circ}35'26''$, long $111^{\circ}51'16''$, in SW1/4SE1/4NE1/4 sec.20, T.10 N., R.1 E., Cache County, Hydrologic Unit 16010203, on right bank 1 mi upstream from backwater of Hyrum Reservoir, 2 mi northwest of Paradise, and 5 mi downstream from East Fork.

DRAINAGE AREA.--198 mi².

PERIOD OF RECORD.--January 1937 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,680 ft from topographic map. Prior to Nov. 28, 1945, at site 150 ft upstream at different datum. Nov. 28, 1945 to May 19, 1952 at present site at datum 1.50 ft higher.

REMARKS.--Records fair, including estimated daily discharges. Diversions above station for irrigation of about 10,000 acres, most of which is below station. Flow regulated slightly by trout farm about 2 mi upstream and by Porcupine Reservoir, capacity 12,800 acre-ft, since 1962.

AVERAGE DISCHARGE.--48 years, 96.7 ft³/s, 70,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft³/s Feb. 11, 1962, gage height, 6.52 ft, from rating curve extended above 600 ft³/s; minimum, 4 ft³/s Aug. 14, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,060 ft³/s Apr. 3, gage height, 6.64 ft; minimum daily, 47 ft³/s July 7-9, Aug. 13, 15, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	160	101	93	e50	86	205	419	164	66	62	52
2	154	154	100	83	e54	88	325	449	159	59	57	62
3	152	193	100	e76	e64	90	576	511	153	53	56	61
4	148	163	93	e65	e70	88	464	582	142	54	54	59
5	148	156	91	e60	e60	88	460	523	134	53	56	59
6	148	152	93	e60	e63	86	552	468	122	49	54	58
7	145	152	96	e60	e70	85	576	438	107	47	51	56
8	145	181	96	e65	e74	85	648	430	100	47	52	56
9	145	181	96	e70	e74	85	697	454	99	47	54	55
10	145	163	96	e85	e66	86	530	519	96	49	52	55
11	148	160	100	e84	e68	93	540	519	94	51	49	72
12	167	165	98	e80	e74	96	483	419	88	56	49	110
13	156	188	96	e70	e80	90	456	367	85	57	47	91
14	152	181	83	e60	e80	90	445	327	80	55	55	87
15	152	160	80	e66	e72	91	430	387	76	55	47	87
16	154	158	85	e62	e77	95	391	347	72	54	51	87
17	156	152	88	e60	e77	101	394	318	70	55	47	86
18	156	150	86	e64	e74	112	384	299	67	54	48	91
19	158	150	86	e62	83	123	524	299	68	56	50	104
20	158	131	85	e62	91	133	565	287	66	56	50	93
21	158	105	91	e64	86	137	495	275	62	56	51	91
22	158	103	96	e82	86	120	487	258	62	60	51	89
23	158	103	96	e72	86	118	438	250	63	63	51	87
24	156	101	96	e66	86	165	405	250	64	61	50	82
25	156	108	93	e66	86	208	353	242	85	61	55	76
26	160	101	86	e66	85	163	324	234	77	59	56	74
27	167	96	96	e74	85	152	305	218	75	57	49	74
28	163	101	100	e74	86	139	299	195	72	57	49	73
29	176	101	96	e80	---	145	318	183	67	59	49	74
30	167	101	95	e82	---	169	367	188	66	55	48	74
31	172	---	95	e64	---	172	---	170	---	56	50	---
TOTAL	4834	4270	2889	2177	2107	3579	13436	10805	2735	1717	1600	2275
MEAN	156	142	93.2	70.2	75.3	115	448	349	91.2	55.4	51.6	75.8
MAX	176	193	101	93	91	208	697	582	164	66	62	110
MIN	145	96	80	60	50	85	205	170	62	47	47	52
ACFT	9590	8470	5730	4320	4180	7100	26650	21430	5420	3410	3170	4510
CAL YR 1984	TOTAL	84555	MEAN	231	MAX	1510	MIN	60	ACFT	167700		
WTR YR 1985	TOTAL	52424	MEAN	144	MAX	697	MIN	47	ACFT	104000		

e Estimated.

BEAR RIVER BASIN

10108400 LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT

LOCATION.--Lat 41°44'35", long 111°45'40", in NE1/4NW1/4NE1/4 sec.31, T.12 N., R.2 E., Cache County, Hydrologic Unit 16010203, Cache National Forest, on left bank 487 ft downstream from head and 3.8 mi east of Logan.

PERIOD OF RECORD.--May 1963 to current year.

GAGE.--Water-stage recorder and 8-ft concrete Parshall flume. Datum of gage is 4,858.69 ft NGVD of 1929 (Bureau of Public Roads bench mark).

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

AVERAGE DISCHARGE.--22 years, 24.1 ft³/s, 17,460 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 111 ft³/s May 23, 1963, May 28, 1966; no flow at times most years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	4.8	1.6	1.5	e1.5	e1.5	1.0	27	20	67	68	44
2	37	4.4	1.6	1.5	e1.5	e1.5	.75	46	46	76	67	44
3	34	3.2	1.6	1.5	e1.5	e1.5	.28	50	55	87	67	44
4	32	2.6	1.6	1.4	e1.5	e1.5	.00	55	55	84	67	46
5	32	2.5	1.6	1.3	e1.5	e1.5	.00	56	59	84	68	48
6	31	2.4	1.6	1.3	e1.5	e1.5	.00	55	63	84	70	48
7	31	2.2	1.8	1.3	e1.5	e1.5	.00	57	63	84	75	45
8	31	2.2	1.8	1.2	e1.5	e1.5	.00	61	64	84	65	36
9	31	2.0	1.8	1.3	e1.5	e1.5	.00	62	63	84	59	36
10	31	2.0	1.8	1.3	e1.5	e1.5	.00	62	63	84	61	36
11	30	2.0	1.6	e1.6	e1.5	e1.5	.00	59	62	84	61	36
12	30	2.0	1.6	e1.6	e1.5	e1.5	.00	51	62	82	61	36
13	21	2.0	1.6	e1.6	e1.5	e1.5	.00	50	62	75	61	30
14	1.8	2.0	1.6	e1.6	e1.5	e1.5	.00	50	62	74	59	21
15	1.5	2.2	1.6	e1.5	e1.5	e1.5	.00	43	66	74	57	20
16	1.2	2.2	1.5	e1.5	e1.5	1.5	.00	48	73	73	57	20
17	.91	2.2	1.5	e1.5	e1.5	1.5	.00	49	75	73	57	20
18	.76	2.4	1.5	e1.5	e1.5	1.3	.00	50	74	73	57	20
19	.73	2.4	1.5	e1.5	e1.5	1.3	.00	49	74	76	57	20
20	.73	2.3	1.5	e1.5	e1.5	1.3	.00	37	73	76	57	19
21	.68	2.2	1.5	e1.5	e1.5	1.3	.00	36	73	75	57	17
22	5.8	2.0	1.5	e1.5	e1.5	1.3	.00	36	73	73	57	13
23	8.1	2.0	1.5	e1.5	e1.5	1.3	.00	35	72	70	57	13
24	8.1	1.8	1.5	e1.5	e1.5	1.3	.00	50	72	64	57	13
25	6.8	1.8	1.5	e1.5	e1.5	1.3	.00	62	69	63	56	13
26	5.7	1.8	1.5	e1.5	e1.5	1.2	.00	62	60	66	57	12
27	5.6	1.8	1.5	e1.5	e1.5	1.1	.00	62	60	69	53	9.7
28	5.4	1.8	1.5	e1.5	e1.5	1.2	.00	62	62	69	47	7.8
29	5.1	1.7	1.5	e1.5	---	1.1	.00	62	66	69	47	7.6
30	4.8	1.6	1.5	e1.5	---	1.0	11	38	66	69	46	4.7
31	4.9	---	1.5	e1.5	---	1.0	---	6.3	---	69	44	---
TOTAL	475.61	68.5	48.8	45.5	42.0	42.5	13.03	1528.3	1907	2334	1829	779.8
MEAN	15.3	2.28	1.57	1.47	1.50	1.37	.43	49.3	63.6	75.3	59.0	26.0
MAX	37	4.8	1.8	1.6	1.5	1.5	11	62	75	87	75	48
MIN	.68	1.6	1.5	1.2	1.5	1.0	.00	6.3	20	63	44	4.7
ACFT	943	136	97	90	83	84	26	3030	3780	4630	3630	1550

CAL YR 1984 TOTAL 6639.32 MEAN 18.1 MAX 71 MIN .00 ACFT 13170
WTR YR 1985 TOTAL 9114.04 MEAN 25.0 MAX 87 MIN .00 ACFT 18080

e Estimated.

BEAR RIVER BASIN

243

10109000 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT

LOCATION.--Lat 41°44'40", long 111°47'00", in NE1/4 sec.36, T.12 N., R.1 E., Cache County, Hydrologic Unit 16010203, on right bank 0.5 mi upstream from State dam, and 2.5 mi east of Logan.

DRAINAGE AREA.--214 mi².

PERIOD OF RECORD.--June 1896 to current year. Published as Logan River near Logan prior to 1913. Records since May 1913 equivalent to earlier records. If records for Utah Power & Light Co.'s fallrace near Logan (station 10108000) are added. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,680 ft from topographic map. Prior to May 7, 1913, nonrecording gage at various sites within 0.5 mi downstream at different datums. May 7, 1913, to Sept. 3, 1938, water-stage recorder at present site at different datums.

REMARKS.--No estimated daily discharges. Records good. Flow affected by regulation and diversions above station for power, irrigation, and municipal culinary supply. Utah Power and Light Co. stopped diverting water from river November 1970 at which time the fallrace station (station 10108000) was discontinued. During 1963, site for gaging station for Logan, Hyde Park and Smithfield Canal (station 10108400) was relocated. Records for combined flow since that time are equivalent to previous records. For record of combined flow, see following page.

AVERAGE DISCHARGE.--River only: 72 years (water years 1914-85), 139 ft³/s, 100,700 acre-ft/yr.
Combined river and canal: 89 years, 275 ft³/s, 199,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--River only: Maximum discharge, 2,000 ft³/s Mar. 21, 1916, gage height, 5.6 ft; minimum daily, 6 ft³/s Nov. 7, 1940.
Combined river and canal: Maximum discharge observed, 2,480 ft³/s May 24, 1907; minimum daily, 50 ft³/s Jan. 21, 1935.

EXTREMES FOR CURRENT YEAR.--River only: Maximum discharge, 890 ft³/s May 26, gage height, 4.86 ft; minimum, 61 ft³/s Aug. 27.
Combined river and canal: Maximum daily discharge, 927 ft³/s May 27; minimum daily, 137 ft³/s Feb. 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	231	221	197	171	141	139	158	499	702	292	191	161
2	231	216	195	167	148	141	169	578	654	278	188	171
3	231	238	193	165	148	141	202	671	607	262	186	169
4	231	224	188	167	146	139	228	796	619	259	186	162
5	228	220	186	165	141	141	211	744	607	254	182	158
6	226	221	184	165	143	139	216	702	602	249	177	158
7	224	224	175	163	146	137	257	725	615	246	175	159
8	224	224	182	165	150	139	306	786	619	241	177	165
9	221	226	184	167	150	137	374	815	611	233	177	167
10	219	209	184	167	146	139	407	830	586	234	177	165
11	221	214	191	165	143	139	431	800	558	231	175	166
12	226	219	186	163	146	143	431	716	534	244	175	178
13	226	219	182	163	144	143	463	649	518	244	173	170
14	244	221	180	160	144	143	499	611	507	231	173	173
15	238	214	182	163	143	146	558	624	484	226	175	173
16	236	207	191	160	143	148	590	590	470	226	173	171
17	238	207	182	158	143	152	640	619	452	221	171	168
18	238	207	175	158	141	154	671	667	438	219	171	172
19	236	204	175	160	141	158	675	698	417	219	165	178
20	233	202	182	163	146	165	574	748	407	214	168	172
21	233	200	180	163	143	169	515	739	380	211	163	171
22	224	200	177	163	141	169	477	748	370	211	160	173
23	219	197	177	158	141	167	438	762	358	228	158	171
24	216	197	177	156	139	167	417	767	345	228	158	170
25	219	200	173	158	139	171	397	805	351	219	158	168
26	221	197	171	158	135	173	380	860	342	211	156	169
27	224	195	177	156	135	171	364	865	324	209	152	168
28	221	200	180	152	137	169	364	845	312	200	160	170
29	224	200	177	154	---	160	387	810	306	202	158	170
30	226	195	175	152	---	158	427	791	300	200	160	172
31	224	---	175	137	---	158	---	758	---	200	161	---
TOTAL	7053	6318	5633	4982	4003	4715	12226	22618	14395	7142	5279	5058
MEAN	228	211	182	161	143	152	408	730	480	230	170	169
MAX	244	238	197	171	150	173	675	865	702	292	191	178
MIN	216	195	171	137	135	137	158	499	300	200	152	158
ACFT	13990	12530	11170	9880	7940	9350	24250	44860	28550	14170	10470	10030
CAL YR 1984	TOTAL	154490	MEAN	422	MAX	1830	MIN	130	ACFT	306400		
WTR YR 1985	TOTAL	99422	MEAN	272	MAX	865	MIN	135	ACFT	197200		

BEAR RIVER BASIN

LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF LOGAN RIVER ABOVE STATE DAM

AND LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT

WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	267	226	199	173	143	141	159	526	722	359	259	205
2	268	220	197	169	150	143	170	624	700	354	255	215
3	265	241	195	167	150	143	202	721	662	349	253	213
4	263	227	190	168	148	141	228	851	674	343	253	208
5	260	223	188	166	143	143	211	800	666	338	250	206
6	257	223	186	166	145	141	216	757	665	333	247	206
7	255	226	177	164	148	139	257	782	678	330	250	204
8	255	226	184	166	152	141	306	847	683	325	242	201
9	252	228	186	168	152	139	374	877	674	317	236	203
10	250	211	186	168	148	141	407	892	649	318	238	201
11	251	216	193	167	145	141	431	859	620	315	236	202
12	256	221	188	165	148	145	431	767	596	326	236	214
13	247	221	184	165	146	145	463	699	580	319	234	200
14	246	223	182	162	146	145	499	661	569	305	232	194
15	240	216	184	165	145	148	558	667	550	300	232	193
16	237	209	193	162	145	150	590	638	543	299	230	191
17	239	209	184	160	145	154	640	668	527	294	228	188
18	239	209	177	160	143	155	671	717	512	292	228	192
19	237	206	177	162	143	159	675	747	491	295	222	198
20	234	204	184	165	148	166	574	785	480	290	225	191
21	234	202	182	165	145	170	515	775	453	286	220	188
22	230	202	179	165	143	170	477	784	443	284	217	186
23	227	199	179	160	143	168	438	797	430	298	215	184
24	224	199	179	158	141	168	417	817	417	292	215	183
25	226	202	175	160	141	172	397	867	420	282	214	181
26	227	199	173	160	137	174	380	922	402	277	213	181
27	230	197	179	158	137	172	364	927	384	278	205	178
28	226	202	182	154	139	170	364	907	374	269	207	178
29	229	202	179	156	---	161	387	872	372	271	205	178
30	231	197	177	154	---	159	438	829	366	269	206	177
31	229	---	177	139	---	159	---	764	---	269	205	---
TOTAL	7531	6386	5695	5037	4059	4763	12239	24146	16302	9476	7108	5839
MEAN	243	213	184	162	145	154	408	779	543	306	229	195
MAX	268	241	199	173	152	174	675	927	722	359	259	215
MIN	224	197	173	139	137	139	159	526	366	269	205	177
ACFT	14940	12670	11300	9990	8050	9450	24280	47890	32340	18800	14100	11580
CAL YR 1984	TOTAL	161572	MEAN	441	MAX	1850	MIN	131	ACFT	320500		
WTR YR 1985	TOTAL	108581	MEAN	297	MAX	927	MIN	137	ACFT	215400		

BEAR RIVER BASIN

245

10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UT

LOCATION (REVISED).--Lat 41°37'18", long 111°44'22", in NW1/4SE1/4NE1/4 sec.8, T.10 N., R.2 E., Cache County, Hydrologic Unit 16010203 on right bank 0.8 mi upstream from diversion dam, and 6 mi east of Hyrum.

DRAINAGE AREA.--268 mi².

PERIOD OF RECORD.--October 1913 to current year. Monthly discharge only for October 1913, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1925. WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,000.60 ft NGVD of 1929, unadjusted. Prior to Oct. 2, 1934, at site 1,000 ft upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. A few small diversions for irrigation of about 200 acres above station. Flow is slightly regulated by powerplant above station.

AVERAGE DISCHARGE.--72 years, 133 ft³/s, 96,360 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,650 ft³/s May 14, 1984, gage height, 7.12 ft; minimum, 4.7 ft³/s Nov. 28, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 140 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 24	2200	229	4.06	May 4	1400	473	4.96
Apr. 17	0300	*654	*5.51				

Minimum, 98 ft³/s Feb. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	177	163	151	122	124	190	406	237	180	163	152
2	202	177	161	143	135	126	229	420	231	180	162	160
3	202	192	161	143	135	128	277	445	230	180	160	156
4	200	181	157	145	134	126	274	464	228	180	162	153
5	200	173	155	147	132	126	245	452	223	178	161	152
6	200	175	155	147	134	126	264	429	221	178	160	150
7	198	177	159	147	132	124	292	409	217	176	160	149
8	198	183	159	147	134	124	317	400	213	176	159	150
9	194	183	157	147	134	124	378	392	210	176	159	149
10	196	177	157	147	132	126	412	398	208	176	159	146
11	198	177	161	147	130	128	432	389	205	175	159	150
12	202	177	159	141	130	134	432	356	205	175	158	159
13	198	179	157	139	130	132	461	330	203	174	157	148
14	196	183	153	143	128	132	482	317	201	172	158	144
15	196	179	155	145	128	134	512	335	200	171	159	143
16	190	177	161	141	128	137	552	312	196	171	158	142
17	194	175	153	143	128	143	601	307	194	170	158	142
18	194	173	155	143	126	149	588	302	192	168	158	145
19	192	171	157	143	126	155	581	299	189	168	158	148
20	190	171	157	141	132	165	512	299	190	169	157	143
21	190	169	157	141	128	169	464	294	191	169	158	142
22	187	169	157	139	128	155	446	286	188	171	159	140
23	181	167	157	135	128	153	414	279	186	170	158	139
24	181	167	155	135	128	179	406	274	184	169	157	138
25	179	169	153	137	128	198	384	269	189	167	158	137
26	181	167	155	137	126	183	362	264	191	164	157	140
27	183	163	155	137	126	181	343	262	187	164	156	135
28	179	167	157	137	124	173	332	253	185	164	155	135
29	183	165	153	137	---	171	348	250	183	164	154	135
30	181	163	153	135	---	167	381	246	181	166	154	135
31	179	---	151	126	---	175	---	239	---	165	153	---
TOTAL	5946	5223	4855	4386	3626	4567	11909	10375	6058	5326	4904	4355
MEAN	192	174	157	141	130	147	397	335	202	172	158	145
MAX	202	192	163	151	135	198	601	464	237	180	163	160
MIN	179	163	151	126	122	124	190	239	181	164	153	135
ACFI	11790	10360	9630	8700	7190	9060	23620	20580	12020	10560	9750	8640
CAL YR 1984	TOTAL	109190	MEAN	298	MAX	1550	MIN	129	ACFT	216600		
WTR YR 1985	TOTAL	71530	MEAN	196	MAX	601	MIN	122	ACFT	141900		

BEAR RIVER BASIN

10117000 HAMMOND (EAST SIDE) CANAL NEAR COLLINSTON, UT

LOCATION.--Lat 41°49'51", long 112°03'24", in SE1/4 sec.27, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 3,600 ft downstream from Cutler Dam and 4 mi north of Collinston.

PERIOD OF RECORD.--June 1912 to current year. Prior to 1915, published as Hammond Ditch near Collinston. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Prior to May 22, 1914, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Canal diverts from east side of Bear River at Cutler Dam for irrigation of about 58,000 acres below station in eastern Box Elder County.

COOPERATION.--Gage-height record and discharge measurements furnished by Utah Power & Light Co.

AVERAGE DISCHARGE.--71 years (water years 1913-81, 1983-85), 50.9 ft³/s, 36,880 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 184 ft³/s June 29, 1963, May 2, 1977; no flow at times in each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	.00	.00	.00	.00	.00	.00	.00	161	160	107	140
2	41	.00	.00	.00	.00	.00	.00	.00	155	159	120	134
3	39	.00	.00	.00	.00	.00	.00	.00	153	158	135	122
4	36	.00	.00	.00	.00	.00	.00	.00	150	157	136	119
5	39	.00	.00	.00	.00	.00	.00	.00	153	157	135	113
6	.00	.00	.00	.00	.00	.00	.00	.00	150	155	134	109
7	.00	.00	.00	.00	.00	.00	.00	.00	153	155	141	102
8	.00	.00	.00	.00	.00	.00	.00	.00	152	154	149	102
9	.00	.00	.00	.00	.00	.00	.00	153	153	150	148	102
10	.00	.00	.00	.00	.00	.00	.00	165	155	149	148	101
11	.00	.00	.00	.00	.00	.00	.00	166	162	149	148	99
12	.00	.00	.00	.00	.00	.00	.00	165	162	148	148	91
13	.00	.00	.00	.00	.00	.00	.00	165	162	151	152	92
14	.00	.00	.00	.00	.00	.00	.00	159	162	146	160	92
15	.00	.00	.00	.00	.00	.00	.00	148	163	142	161	92
16	.00	.00	.00	.00	.00	.00	.00	142	163	138	162	92
17	.00	.00	.00	.00	.00	.00	.00	150	163	140	160	89
18	.00	.00	.00	.00	.00	.00	.00	142	161	151	160	81
19	.00	.00	.00	.00	.00	.00	.00	146	162	152	160	74
20	.00	.00	.00	.00	.00	.00	.00	151	165	151	162	74
21	.00	.00	.00	.00	.00	.00	.00	148	166	150	162	74
22	.00	.00	.00	.00	.00	.00	.00	138	166	142	156	74
23	.00	.00	.00	.00	.00	.00	.00	141	167	122	150	74
24	.00	.00	.00	.00	.00	.00	.00	151	169	93	150	74
25	.00	.00	.00	.00	.00	.00	.00	155	170	104	150	74
26	.00	.00	.00	.00	.00	.00	.00	158	171	115	150	74
27	.00	.00	.00	.00	.00	.00	.00	158	169	114	149	74
28	.00	.00	.00	.00	.00	.00	.00	159	160	112	148	75
29	.00	.00	.00	.00	---	.00	.00	158	157	110	147	75
30	.00	.00	.00	.00	---	.00	.00	157	159	110	140	75
31	.00	---	.00	.00	---	.00	---	161	---	107	140	---
TOTAL	196.00	.00	.00	.00	.00	.00	.00	3536.00	4814	4301	4568	2763
MEAN	6.32	.00	.00	.00	.00	.00	.00	114	160	139	147	92.1
MAX	41	.00	.00	.00	.00	.00	.00	166	171	160	162	140
MIN	.00	.00	.00	.00	.00	.00	.00	.00	150	93	107	74
ACFT	389	.00	.00	.00	.00	.00	.00	7010	9550	8530	9060	5480
CAL YR 1984	TOTAL	10874.00	MEAN	29.7	MAX	169	MIN	.00	ACFT	21570		
WTR YR 1985	TOTAL	20178.00	MEAN	55.3	MAX	171	MIN	.00	ACFT	40020		

BEAR RIVER BASIN

247

10117500 WEST SIDE CANAL NEAR COLLINSTON, UT

LOCATION.--Lat 41°49'55", 112°03'36", in SW1/4 sec.27, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on left bank 4,200 ft downstream from Cutler Dam and 4 mi north of Collinston.

PERIOD OF RECORD.--June 1912 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Prior to May 22, 1914, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Canal diverts from west side of Bear River at Cutler Dam for irrigation of about 58,000 acres below station in eastern Box Elder County.

COOPERATION.--Gage-height record and discharge measurements furnished by Utah Power & Light Co.

AVERAGE DISCHARGE.--71 years (water years 1913-81, 1983-85), 247 ft³/s, 179,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 784 ft³/s July 12, 1984; no flow for periods in every year except 1914.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	167	47	.00	.00	.00	.00	253	736	746	505	647
2	300	166	47	.00	.00	.00	.00	415	732	748	541	628
3	300	165	28	.00	.00	.00	.00	460	730	750	575	579
4	300	164	.00	.00	.00	.00	.00	465	727	747	590	573
5	300	96	.00	.00	.00	.00	.00	564	723	749	607	569
6	300	2.4	.00	.00	.00	.00	.00	573	721	748	629	569
7	300	121	.00	.00	.00	.00	.00	627	728	741	678	564
8	300	138	.00	.00	.00	.00	.00	668	728	743	702	566
9	292	129	.00	.00	.00	.00	.00	669	732	738	699	572
10	209	119	.00	.00	.00	.00	.00	699	730	737	701	570
11	209	121	.00	.00	.00	.00	.00	638	729	735	701	532
12	208	121	.00	.00	.00	.00	.00	579	728	738	698	357
13	207	121	.00	.00	.00	.00	.00	588	728	690	700	354
14	206	122	.00	.00	.00	.00	.00	590	728	658	702	356
15	206	122	.00	.00	.00	.00	.00	516	729	643	697	356
16	205	122	.00	.00	.00	.00	.00	605	729	636	693	353
17	205	122	.00	.00	.00	.00	.00	599	730	632	698	330
18	205	122	.00	.00	.00	.00	.00	622	729	632	690	287
19	205	122	.00	.00	.00	.00	.00	658	734	634	693	251
20	204	121	.00	.00	.00	.00	.00	670	743	631	692	251
21	204	120	.00	.00	.00	.00	.00	679	745	632	691	245
22	205	120	.00	.00	.00	.00	.00	671	742	598	685	244
23	205	120	.00	.00	.00	.00	.00	668	741	447	692	241
24	205	121	.00	.00	.00	.00	.00	691	745	367	684	237
25	205	121	.00	.00	.00	.00	.00	714	747	429	685	237
26	190	121	.00	.00	.00	.00	.00	714	750	472	680	236
27	168	96	.00	.00	.00	.00	.00	715	758	472	679	236
28	168	48	.00	.00	.00	.00	.00	722	755	470	679	235
29	168	47	.00	.00	---	.00	.00	733	749	473	679	234
30	168	47	.00	.00	---	.00	.00	730	747	476	678	233
31	167	---	.00	.00	---	.00	---	737	---	475	667	---
TOTAL	7014	3444.4	122.00	.00	.00	.00	.00	19252	22073	19387	20690	11642
MEAN	226	115	3.94	.00	.00	.00	.00	621	736	625	667	388
MAX	300	167	47	.00	.00	.00	.00	737	758	750	702	647
MIN	167	2.4	.00	.00	.00	.00	.00	253	721	367	505	233
ACFT	13910	6830	242	.00	.00	.00	.00	38190	43780	38450	41040	23090
CAL YR 1984	TOTAL	83720.40	MEAN	229	MAX	784	MIN	.00	ACFT	166100		
WTR YR 1985	TOTAL	103624.40	MEAN	284	MAX	758	MIN	.00	ACFT	205500		

BEAR RIVER BASIN

10118000 BEAR RIVER NEAR COLLINSTON, UT

LOCATION.--Lat 41°50'03", long 112°03'16", in NW1/4SE1/4 sec.27, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 800 ft downstream from Cutler plant of Utah Power & Light Co., 2,000 ft downstream from Cutler Dam, and 5.5 mi north of Collinston.

DRAINAGE AREA.--6,267 mi².

PERIOD OF RECORD.--July 1889 to current year. Published as "at Collinston" prior to 1900. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,276.13 ft NGVD of 1929 (levels by Bureau of Reclamation). Prior to Nov. 8, 1913, nonrecording gage, and Nov. 8, 1913 to Sept. 10, 1938, water-stage recorder, at site 0.8 mi downstream at different datums.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by storage reservoir, power developments, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records provided by Utah Power & Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 11,600 ft³/s June 7-10, 1909, gage height, 7.70 ft, site and datum then in use; minimum daily, 10 ft³/s Aug. 4-12, 18-23, 1905; practically no flow at 2400 Aug. 5, 1920.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 8,550 ft³/s Apr. 7, 8; minimum daily, 29 ft³/s Aug. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3770	3930	3040	3050	2480	2160	3890	3320	1820	303	1030	165
2	3610	3940	3330	3000	2430	2700	3940	2880	2000	391	990	440
3	3500	3680	3440	2920	2690	2570	4250	2980	2120	468	805	530
4	3520	3810	3480	2800	1980	2550	5470	3060	1880	331	835	944
5	3500	3720	2360	2660	2390	2640	7410	3030	1540	199	524	1170
6	3460	3740	3100	2530	1830	2530	8380	2800	1600	564	865	1110
7	3280	3760	2720	2460	2390	2640	8550	2600	1360	461	371	1100
8	3560	3840	2890	2430	2080	2830	8550	2600	1290	70	29	1070
9	3820	3960	3290	2490	2360	2810	8350	2720	1050	621	604	1160
10	4010	3960	3710	2510	2080	2820	7970	2930	273	412	119	1100
11	4030	3970	3870	2570	2260	2820	7880	2720	759	592	33	1150
12	4060	4310	3840	2610	2750	2750	7900	2920	737	106	741	760
13	4070	4570	3760	2610	2460	2210	7900	2970	147	83	335	1780
14	4080	4430	3590	2440	2320	2880	7890	2820	52	553	58	1980
15	3960	4560	2800	2140	2240	2780	7890	2910	51	745	299	1380
16	3890	4670	3090	1800	1860	2710	6760	2890	51	776	358	1220
17	3950	4900	3020	1970	2790	2480	7680	2970	50	605	415	1880
18	3960	4880	2920	2450	2230	2750	7590	2900	49	472	283	1350
19	3970	4590	2910	1960	2630	2780	6880	2880	49	716	544	1390
20	3910	4490	2930	2630	2550	2880	6510	2840	48	476	40	1900
21	3800	4190	2960	2670	2510	2960	6170	2080	48	595	489	1290
22	3720	3930	3080	2680	2560	2980	5590	2880	47	687	41	2190
23	3640	3910	3340	2650	2490	3020	5540	2620	46	1180	396	1630
24	3670	3850	3570	2550	2400	3270	5260	2770	46	1390	280	1640
25	3670	3860	3760	2390	2050	3460	4720	2760	45	1440	380	1660
26	3680	3930	3790	2330	2950	3630	4720	2150	45	718	394	1370
27	3730	3840	3750	2320	2140	3880	4470	2250	44	970	866	1570
28	3890	3430	3570	2370	2260	3920	4250	2420	44	1280	475	1580
29	3840	2320	3280	2400	---	3970	4060	1980	540	976	190	1580
30	3830	2530	3230	2450	---	3870	3800	1800	929	844	545	1600
31	3880	---	3110	2480	---	3900	---	2270	---	1090	310	---
TOTAL	117260	119500	101530	77320	66160	92150	190220	83720	18760	20114	13644	39689
MEAN	3783	3983	3275	2494	2363	2973	6341	2701	625	649	440	1323
MAX	4080	4900	3870	3050	2950	3970	8550	3320	2120	1440	1030	2190
MIN	3280	2320	2360	1800	1830	2160	3800	1800	44	70	29	165
ACFT	232600	237000	201400	153400	131200	182800	377300	166100	37210	39900	27060	78720
CAL YR 1984	TOTAL	1562043	MEAN	4268	MAX	11200	MIN	503	ACFT	3098000		
WTR YR 1985	TOTAL	940067	MEAN	2576	MAX	8550	MIN	29	ACFT	1865000		

BEAR RIVER BASIN

249

10126000 BEAR RIVER NEAR CORINNE, UT

LOCATION.--Lat 41°34'35", long 112°06'00", in NE1/4SE1/4NE1/4 sec.30, T.10 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 1.2 mi downstream from Salt Creek, 2.0 mi northeast of Corinne, and 2.8 mi downstream from Malad River.

DRAINAGE AREA.--7,029 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1949 to September 1957, October 1963 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,204.6 ft, unadjusted. Auxiliary nonrecording gage 7,800 ft downstream July 27, 1950 to Nov. 21, 1955.

REMARKS.--Records poor. Natural flow of stream affected by upstream reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--30 years, 1,950 ft³/s, 1,413,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,770 ft³/s May 19, 1984, gage height, 17.50 ft; minimum daily, 72 ft³/s Aug. 20, 21, 26, Sept. 8, 1964, July 5, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 9,400 ft³/s Apr. 8; minimum observed, 195 ft³/s June 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3980	4230	3150	e3540	e2800	e2880	e4940	e4300	2290	538	1790	937
2	4000	4300	3580	e3460	e2820	e2760	e4900	e3950	1910	409	1650	1090
3	3850	4290	3820	e3380	e2780	e3200	e5000	e3650	1860	444	1610	1340
4	3790	4170	3890	e3300	e3040	e3280	e5500	e3800	1780	493	1480	1560
5	3800	4170	3660	e3180	e2220	e3280	e7200	e3900	1640	500	1500	1570
6	3790	4090	3250	e3040	e2680	e3320	e8400	e3900	1280	499	1350	1680
7	3600	4130	4030	e2900	e2080	e3220	e9000	4090	1440	622	1500	1640
8	3670	4230	4200	e2780	e2680	e3400	e9400	4080	887	641	1270	1490
9	3790	4410	4310	e2740	e2380	e3600	e9300	4020	1010	561	1030	1560
10	4020	4450	4330	e2820	e2660	e3580	e9200	3910	683	717	1220	1590
11	4170	4450	4280	e2880	e2360	e3560	e9000	3610	664	766	1070	1730
12	4280	4470	4290	e2920	e2560	e3540	e9000	3730	549	835	1100	1590
13	4290	4800	4200	e2980	e3080	e3460	e9000	3820	514	704	1310	2080
14	4290	4960	e4070	e2960	e2740	e2840	e9000	3920	404	738	1140	1810
15	4290	4920	e3750	e2720	e2620	e3580	e9000	3950	383	911	1050	1920
16	4180	4990	e3100	e2420	e2540	e3520	e8900	3960	354	1040	1140	1740
17	4260	5080	e3480	e2060	e2160	e3400	e8200	3760	322	1210	1180	1960
18	4290	5230	e3420	e2240	e3100	e3200	e8700	3610	308	1140	1050	1660
19	4280	5220	e3320	e2760	e2600	e3460	e8600	3560	300	1080	1280	2030
20	4280	5030	e3300	e2200	e2980	e3520	e7600	3530	291	1260	1020	1850
21	4220	4890	e3320	e2960	e2910	e3680	e7000	3470	250	1200	1120	2020
22	4150	4580	e3360	e3010	e2860	e3720	e6600	2960	241	1310	1120	2090
23	4060	4400	e3500	e3000	e2900	e3780	e6400	3250	246	1430	1100	1900
24	4010	4360	e3750	e2980	e2820	e3900	e6200	3360	222	1870	1050	2050
25	4030	4370	e4070	e2880	e2700	e4140	e5800	3380	196	1860	1140	1880
26	4050	4350	e4240	e2700	e2320	e4400	e5600	2940	210	1920	1130	1850
27	4060	4380	e4300	e2620	e3350	e4580	e5400	2770	239	1580	1210	1880
28	4110	4300	e4300	e2620	e2760	e4860	e5200	2820	252	1660	1170	1860
29	4220	3860	e4060	e2680	---	e4960	e5000	2540	291	1880	1100	1870
30	4200	3020	e3740	e2720	---	e5000	e4700	2060	410	1750	1110	1920
31	4200	---	e3600	e2780	---	e4900	---	2340	---	1580	1080	---
TOTAL	126210	134130	117670	88230	75500	114520	217740	108940	21426	33148	38070	52147
MEAN	4071	4471	3796	2846	2696	3694	7258	3514	714	1069	1228	1738
MAX	4290	5230	4330	3540	3350	5000	9400	4300	2290	1920	1790	2090
MIN	3600	3020	3100	2060	2080	2760	4700	2060	196	409	1020	937
ACFT	250300	266000	233400	175000	149800	227200	431900	216100	42500	65750	75510	103400
CAL YR 1984	TOTAL	1826030	MEAN	4989	MAX	14300	MIN	1430	ACFT	3622000		
WTR YR 1985	TOTAL	1127731	MEAN	3090	MAX	9400	MIN	196	ACFT	2237000		

e Estimated.

BEAR RIVER BASIN

10126000 BEAR RIVER NEAR CORINNE, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1973 to current year.

SPECIFIC CONDUCTANCE: April 1976 to September 1981, once daily.

WATER TEMPERATURES: October 1974 to September 1981, once daily.

SEDIMENT DATA: October 1976 to current year, periodically.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 6,140 microsiemens July 5, 1979; minimum daily, 440 microsiemens May 25, 1978.

WATER TEMPERATURES: Maximum, 30.0°C July 27, 28, 1978; minimum, 0.0°C on many days during winter period each year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC 31...	1100	3640	1050	8.3	3.5	0.5	0.5	11.1	654	K16	110
JAN 25...	0900	3080	1020	8.4	-16.0	0.0	4.9	13.7	660	K6	K20
MAY 28...	1400	2850	840	8.4	22.5	19.5	68	7.2	650	470	170
SEP 10...	1030	1510	1270	8.5	13.5	17.5	69	8.0	651	200	260

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HC03)	CAR- BONATE IT-FLD (MG/L AS C03)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CAC03)
DEC 31...	340	6.8	67	42	94	37	2.3	8.4	340	--	279
JAN 25...	330	6.6	68	39	94	38	2.3	8.1	320	4.1	259
MAY 28...	240	4.8	57	24	79	41	2.3	7.5	270	4.1	234
SEP 10...	310	6.2	54	42	140	48	3.6	14	290	6.1	249

DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
DEC 31...	61	140	0.3	15	583	596	0.81	5860	0.84	0.08
JAN 25...	58	140	0.3	14	592	432	0.59	3590	--	--
MAY 28...	31	120	0.3	9.0	446	328	0.45	2530	0.43	0.03
SEP 10...	66	230	0.3	15	724	710	0.96	2900	0.53	0.04

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04)
DEC 31...	0.1	0.4	0.4	0.4	1.8	0.06	--	0.03	0.04	0.12
JAN 25...	--	--	--	--	--	--	--	--	--	--
MAY 28...	0.04	0.8	0.8	0.8	3.5	0.26	0.8	0.02	0.02	0.06
SEP 10...	0.05	0.9	0.9	0.9	4.0	0.10	0.31	0.02	0.01	0.03

K Results based on colony count outside acceptable range (nonideal colony count).

BEAR RIVER BASIN

251

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
DEC 31...	1100	<10	3	77.00	<0.50	<1	--	<3.00	<1	5.00	9
JAN 25...	0900	10	2	79.00	<0.50	<1	1	<3.00	1	10	<1
MAY 28...	1400	10	1	67.00	0.80	<1	<1	<3.00	2	6.00	5
SEP 10...	1030	10	5	88.00	<0.50	2	<1	<3.00	2	6.00	1

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC 31...	70	4	<0.1	<10	2	<1	<1	420	<6.0	20
JAN 25...	80	6	<0.1	10	2	<1	<1	460	<6.0	5.00
MAY 28...	60	4	<0.1	<10	3	<1	<1	350	<6.0	<3.00
SEP 10...	100	5	<0.1	<10	1	<1	<1	530	<6.0	6.00

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
DEC 31...	1100	3640	0.5	51	70	688
JAN 25...	0900	3080	0.0	47	51	424
MAY 28...	1400	2850	19.5	91	174	1340
SEP 10...	1030	1510	17.5	90	206	840

BEAR RIVER BASIN

10126180 SULPHUR CREEK NEAR CORINNE, UT

LOCATION.--Lat 41°34'25", long 112°13'07", in SW1/4SE1/4NE1/4 sec.30, T.10 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, on right bank 100 ft downstream from bridge on State Highway 83 and 6 mi northwest of Corinne.

DRAINAGE AREA.--15.4 mi².

PERIOD OF RECORD.--September 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,228.8 ft.

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

AVERAGE DISCHARGE.--14 years, 64.4 ft³/s, 46,660 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 296 ft³/s Mar. 21, 1984, gage height, 3.44 ft; minimum observed, 3.7 ft³/s Feb. 13, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 116 ft³/s Mar. 25, gage height, 2.07 ft; minimum, 3.7 ft³/s Feb. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	56	40	e26	e6.5	e22	56	32	39	44	55	40
2	87	56	38	e24	e5.4	e23	55	33	44	42	52	49
3	84	58	37	e22	e5.8	e26	56	37	45	37	50	54
4	80	60	e35	e21	e5.0	e26	56	31	47	37	55	51
5	75	59	e32	e21	e4.5	26	60	31	43	45	49	54
6	78	58	31	e21	e5.0	26	61	30	44	50	48	57
7	77	54	30	e22	e5.6	27	59	31	41	60	46	62
8	75	51	28	e24	e6.2	26	55	31	37	51	46	62
9	73	55	27	e26	e5.4	26	50	32	39	49	42	63
10	70	54	27	27	e4.5	26	46	42	40	48	46	63
11	69	55	27	27	e4.0	26	43	54	39	45	47	68
12	73	56	27	e21	e3.8	27	41	61	38	49	49	86
13	70	55	e26	e17	e3.7	28	39	63	39	60	46	76
14	69	51	e25	e14	e4.0	28	37	60	35	62	48	78
15	69	49	e22	e18	e4.0	28	36	66	33	63	51	71
16	69	51	e23	e20	e4.5	31	33	62	38	60	49	74
17	73	50	e25	e20	e4.5	34	32	61	35	60	48	77
18	74	48	e23	e20	e4.0	41	30	53	32	57	45	75
19	70	47	e21	e20	e4.5	54	31	54	34	58	44	72
20	66	45	e23	e20	e5.4	73	31	48	35	62	44	74
21	64	44	e26	e21	e8.0	87	32	44	33	64	41	73
22	62	44	e28	e22	e11	73	32	49	32	62	43	73
23	61	42	e28	e23	e15	72	32	45	32	70	43	72
24	61	42	e27	e19	e19	90	32	36	32	84	48	72
25	60	44	e26	e18	e20	111	32	39	38	72	49	72
26	60	42	e23	e18	e20	95	32	41	44	62	51	71
27	60	41	e23	e19	e21	82	32	40	40	59	42	69
28	58	40	e28	e20	e22	74	32	33	39	57	42	60
29	58	41	e27	e21	---	67	32	34	42	57	48	56
30	57	48	e27	e17	---	59	32	39	44	57	41	59
31	57	---	e28	e12	---	58	---	40	---	56	43	---
TOTAL	2150	1496	858	641	232.3	1492	1227	1352	1153	1739	1451	1983
MEAN	69.4	49.9	27.7	20.7	8.30	48.1	40.9	43.6	38.4	56.1	46.8	66.1
MAX	91	60	40	27	22	111	61	66	47	84	55	86
MIN	57	40	21	12	3.7	22	30	30	32	37	41	40
ACFT	4260	2970	1700	1270	461	2960	2430	2680	2290	3450	2880	3930
CAL YR 1984	TOTAL	24491	MEAN	66.9	MAX	268	MIN	21	ACFT	48580		
WTR YR 1985	TOTAL	15774.3	MEAN	43.2	MAX	111	MIN	3.7	ACFT	31290		

e Estimated.

BEAR RIVER BASIN

253

10127040 SALT SPRING NEAR TREMONTON, UT

LOCATION.--Lat 41°42'44", long 112°13'38", in SW1/4SE1/4, sec.6, T.11 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, 3 mi west of Tremonton.

PERIOD OF RECORD.--July 1979 to current year.

REMARKS.--No estimated daily discharges. Records fair. Record is computed by subtracting water diverted from the West Side Canal into Salt Spring from the record for station 10127050.

AVERAGE DISCHARGE.--6 years, 24.0 ft³/s, 17,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 36 ft³/s Apr. 27-May 7, 1984; minimum daily, 17 ft³/s Nov. 14-20, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 32 ft³/s July 2-14; minimum daily, 27 ft³/s many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	30	30	27	29	28	29	27	27	31	28	30
2	28	30	30	28	29	28	29	27	27	32	28	30
3	28	30	30	28	29	28	29	28	27	32	28	30
4	28	30	30	28	29	28	29	28	28	32	28	30
5	28	30	30	28	29	28	29	28	28	32	28	30
6	28	30	30	28	28	29	28	28	28	32	28	30
7	28	30	29	28	28	29	28	29	28	32	28	30
8	28	30	29	28	28	29	28	29	28	32	28	30
9	28	30	29	29	28	29	28	28	28	32	28	30
10	28	30	29	29	28	29	27	28	28	32	28	30
11	28	30	29	29	28	29	27	28	28	32	28	30
12	28	30	29	29	28	29	27	28	28	32	28	30
13	28	30	29	28	28	29	27	28	28	32	28	30
14	28	30	29	28	28	29	27	28	29	32	28	30
15	28	30	29	28	28	29	27	28	29	31	28	30
16	29	30	29	28	28	28	27	28	29	31	29	30
17	29	30	29	28	28	28	27	28	29	31	29	30
18	29	30	29	28	28	28	27	27	29	31	29	30
19	29	30	29	28	28	28	28	27	29	31	29	30
20	29	30	29	28	28	28	28	27	30	30	29	30
21	29	30	28	29	28	28	28	27	29	30	29	30
22	29	30	28	29	28	28	28	27	30	30	29	30
23	29	30	28	29	28	28	28	27	30	30	30	30
24	29	30	28	29	28	28	28	27	30	30	30	30
25	29	30	28	28	28	29	28	27	30	29	30	30
26	29	30	28	28	28	29	28	27	30	29	30	30
27	29	30	28	28	28	29	28	29	30	29	30	30
28	29	30	28	29	28	29	28	27	30	29	30	30
29	29	30	27	29	---	29	27	27	30	29	30	30
30	29	30	27	29	---	29	27	27	31	29	30	30
31	30	---	27	29	---	29	---	27	---	28	30	---
TOTAL	885	900	891	879	789	885	834	856	865	954	893	900
MEAN	28.5	30.0	28.7	28.4	28.2	28.5	27.8	27.6	28.8	30.8	28.8	30.0
MAX	30	30	30	29	29	29	29	29	31	32	30	30
MIN	28	30	27	27	28	28	27	27	27	28	28	30
ACFT	1760	1790	1770	1740	1560	1760	1650	1700	1720	1890	1770	1790
CAL YR 1984	TOTAL	10748	MEAN	29.4	MAX	36	MIN	24	ACFT	21320		
WTR YR 1985	TOTAL	10531	MEAN	28.9	MAX	32	MIN	27	ACFT	20890		

BEAR RIVER BASIN

10127050 SALT CREEK BELOW SALT SPRING, NEAR TREMONTON, UT

LOCATION.--Lat 41°42'41", long 112°13'36", in SW1/4SE1/4, sec.6, T.11 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, on right bank 250 ft below Salt Spring and 3 mi west of Tremonton.

PERIOD OF RECORD.--July 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,280 ft from topographic map.

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

AVERAGE DISCHARGE.--6 years, 45.2 ft³/s, 32,750 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 184 ft³/s Feb. 18, 1980, gage height, 6.12 ft; minimum, 19 ft³/s Apr. 29, 30, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 168 ft³/s July 23, gage height, 5.50 ft; minimum daily, 27 ft³/s, many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	77	32	27	29	28	29	42	48	32	67	41
2	116	77	32	28	29	28	36	78	58	32	71	76
3	117	78	30	28	29	28	71	33	52	33	77	78
4	121	76	30	28	29	28	58	28	49	44	57	57
5	121	76	30	28	29	28	36	30	49	51	34	53
6	122	40	30	28	28	29	31	34	39	51	28	67
7	122	59	29	28	28	29	29	29	30	61	28	77
8	121	95	29	28	28	29	28	29	28	56	39	79
9	96	97	29	29	28	29	28	28	28	49	44	70
10	92	87	29	29	28	29	27	55	28	49	44	68
11	93	78	29	29	28	29	27	82	28	52	54	98
12	95	77	29	29	28	29	27	82	28	81	71	106
13	94	79	29	28	28	29	27	77	28	139	69	89
14	93	86	29	28	28	29	27	65	29	141	45	76
15	92	87	29	28	28	29	27	74	29	132	37	81
16	88	87	29	28	28	28	27	104	29	123	42	75
17	89	87	29	28	28	28	27	111	29	116	44	46
18	88	87	29	28	28	31	27	99	29	105	55	67
19	88	86	29	28	28	31	28	76	29	89	60	83
20	88	86	29	28	28	29	28	71	30	86	53	82
21	87	85	28	29	28	28	28	71	29	84	44	79
22	87	85	28	29	28	28	28	58	30	103	43	76
23	87	85	28	29	28	28	28	39	30	133	47	77
24	87	85	28	29	28	28	28	27	30	115	51	76
25	87	87	28	28	28	29	28	27	32	109	53	76
26	87	85	28	28	28	29	28	27	34	97	53	76
27	81	85	28	28	28	30	28	29	32	113	48	79
28	80	72	28	29	28	33	28	27	30	116	44	83
29	80	49	27	29	---	31	27	27	30	113	40	83
30	79	34	27	29	---	30	27	33	31	86	33	83
31	78	---	27	29	---	29	---	40	---	79	40	---
TOTAL	2973	2354	895	879	789	900	923	1632	1005	2670	1515	2257
MEAN	95.9	78.5	28.9	28.4	28.2	29.0	30.8	52.6	33.5	86.1	48.9	75.2
MAX	122	97	32	29	29	33	71	111	58	141	77	106
MIN	78	34	27	27	28	28	27	27	28	32	28	41
ACFT	5900	4670	1780	1740	1560	1790	1830	3240	1990	5300	3010	4480
CAL YR 1984	TOTAL 21771		MEAN 59.5		MAX 142		MIN 27		ACFT 43180			
WTR YR 1985	TOTAL 18792		MEAN 51.5		MAX 141		MIN 27		ACFT 37270			

BEAR RIVER BASIN

255

10127100 BLACK SLOUGH NEAR BRIGHAM CITY, UT

LOCATION.--Lat 41°30'36", long 112°03'34", in SW1/4SE1/4SW1/4 sec.16, T.9 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on left bank 20 ft above bridge on Highway 523 and 3 mi west of Brigham City.

DRAINAGE AREA.--31.1 mi².

PERIOD OF RECORD.--September 1971 to current year.

REVISED RECORDS.--WDR UT-82-1: 1976-81 (M).

GAGE.--Water-stage recorder. Altitude of gage is 4,210 ft from topographic map.

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

AVERAGE DISCHARGE.--14 years, 54.3 ft³/s, 39,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 323 ft³/s Mar. 21, 1984, gage height, 4.16 ft; minimum, 2.7 ft³/s July 14, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 274 ft³/s Mar. 24, gage height, 3.99 ft; minimum daily, 11 ft³/s June 9, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	90	135	e92	e74	e71	169	60	27	17	33	24
2	74	88	132	e90	e71	e74	160	59	21	18	28	37
3	75	87	119	e89	e74	e73	153	59	20	18	25	56
4	74	91	97	e88	e73	e71	146	53	20	16	24	57
5	73	91	109	e88	e72	e70	136	42	21	15	27	46
6	71	92	105	e89	e73	e70	129	30	18	15	24	40
7	70	90	99	e89	e75	73	120	27	16	16	20	39
8	69	100	94	e90	e77	73	112	26	13	17	15	38
9	72	131	91	e91	e75	72	115	28	11	21	13	39
10	75	142	92	e92	e74	72	103	34	14	19	13	38
11	75	147	94	e92	e73	75	90	49	16	15	15	39
12	89	151	94	e87	e72	85	83	57	14	14	20	61
13	101	154	92	e83	e74	87	78	58	14	19	17	69
14	101	153	91	e80	e74	89	78	49	15	21	16	65
15	101	151	91	e84	e74	97	79	43	16	22	18	61
16	99	148	91	e83	e75	129	80	47	16	17	17	60
17	94	145	95	e83	e75	169	89	45	18	21	18	59
18	93	140	e90	e83	e73	200	90	42	13	19	19	60
19	99	138	e90	e83	e73	226	78	37	12	18	22	70
20	102	133	e91	e84	e74	237	96	38	13	20	19	82
21	101	129	e93	e84	e74	233	93	39	11	18	19	87
22	97	124	e94	e83	e75	230	99	36	12	27	20	80
23	93	120	e95	e82	e75	244	93	34	13	32	22	67
24	90	117	e94	e81	e75	261	89	34	15	28	23	57
25	88	137	e94	e80	e75	251	81	35	18	22	20	51
26	87	138	e93	e80	e73	243	74	30	24	19	17	49
27	89	134	e94	e82	e72	228	70	28	26	17	18	46
28	90	135	e94	e82	e71	215	68	31	23	19	17	46
29	90	136	e93	e81	---	198	66	24	20	36	16	54
30	91	136	e93	e82	---	189	62	24	18	39	19	57
31	92	---	e94	e78	---	180	---	26	---	36	22	---
TOTAL	2689	3768	3023	2635	2065	4585	2979	1224	508	651	616	1634
MEAN	86.7	126	97.5	85.0	73.8	148	99.3	39.5	16.9	21.0	19.9	54.5
MAX	102	154	135	92	77	261	169	60	27	39	33	87
MIN	69	87	90	78	71	70	62	24	11	14	13	24
ACFT	5330	7470	6000	5230	4100	9090	5910	2430	1010	1290	1220	3240
CAL YR 1984	TOTAL	39312	MEAN	107	MAX	306	MIN	22	ACFT	77980		
WTR YR 1985	TOTAL	26377	MEAN	72.3	MAX	261	MIN	11	ACFT	52320		

e Estimated.

10127110 BEAR RIVER BASIN OUTFLOW ACROSS STATE HIGHWAY 83, NEAR CORINNE, UT

LOCATION.--Records of discharge are collected at 3 continuous recording gaging stations (see stations 10126000, 10126180, and 10127100) and 46 culvert or bridge openings which cross State Highway 83 from Brigham City on the east to the base of Little Mountain 7.2 mi west of Corinne.

PERIOD OF RECORD.--October 1971 to current year.

REMARKS.--No estimated daily discharges. Records fair. Three of the culvert crossings are distributaries of canals. Flow through the other openings generally is determined by current meter measurements, discharge based on computerized ratings for flow through culverts, or field estimates. Records for station 10127100 Black Slough are collected at a bridge crossing on county road about 2 mi downstream from State Highway 83 in order to include Box Elder Creek. Most of the flow that crosses Highway 83 is included in records for station 10126000 Bear River near Corinne.

AVERAGE DISCHARGE.--14 years, 2,526 ft³/s, 1,830,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 14,600 ft³/s May 19, 1984; minimum daily, 240 ft³/s Apr. 26, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 9,650 ft³/s Apr. 8; minimum daily, 471 ft³/s June 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4360	4510	3380	3690	2900	3010	5250	4460	2550	838	2200	1240
2	4360	4570	3810	3600	2910	2900	5200	4150	2180	706	2020	1440
3	4200	4570	4030	3520	2880	3330	5290	3880	2140	738	1970	1730
4	4130	4450	4070	3430	3140	3410	5790	4010	2070	796	1860	1950
5	4130	4450	3850	3310	2310	3410	7490	4110	1920	824	1880	1930
6	4120	4370	3430	3170	2780	3450	8680	4110	1560	837	1710	2030
7	3920	4410	4200	3040	2190	3360	9270	4300	1710	973	1840	1990
8	3990	4540	4370	2920	2800	3540	9650	4300	1150	977	1580	1830
9	4110	4750	4470	2890	2490	3740	9540	4240	1270	895	1330	1900
10	4330	4790	4490	2970	2760	3720	9420	4160	953	1050	1530	1930
11	4480	4800	4440	3030	2460	3700	9200	3900	933	1090	1380	2070
12	4610	4820	4440	3060	2660	3700	9190	4040	811	1180	1420	2000
13	4630	5140	4340	3100	3190	3620	9170	4130	778	1110	1630	2470
14	4620	5290	4210	3070	2840	3000	9170	4220	665	1160	1460	2190
15	4620	5240	3880	2850	2720	3750	9170	4260	638	1340	1370	2280
16	4510	5310	3240	2550	2640	3740	9060	4260	620	1470	1460	2100
17	4590	5390	3630	2190	2270	3670	8370	4060	585	1640	1500	2310
18	4620	5530	3560	2370	3200	3520	8870	3890	560	1560	1360	2000
19	4600	5510	3450	2890	2700	3840	8760	3850	553	1510	1590	2390
20	4600	5310	3440	2330	3090	3970	7780	3810	545	1700	1320	2240
21	4530	5160	3470	3100	3020	4150	7170	3740	501	1650	1420	2420
22	4450	4840	3510	3150	2980	4170	6780	3240	491	1770	1420	2470
23	4350	4650	3660	3140	3020	4240	6570	3520	498	1910	1410	2240
24	4300	4600	3900	3110	2950	4400	6370	3610	477	2370	1360	2370
25	4320	4640	4220	3000	2830	4670	5960	3640	471	2330	1450	2180
26	4340	4610	4380	2820	2450	4900	5760	3200	514	2340	1440	2140
27	4350	4630	4450	2740	3470	5030	5550	3020	542	1970	1510	2160
28	4390	4540	4460	2750	2880	5270	5350	3070	549	2050	1470	2130
29	4500	4100	4210	2810	---	5340	5150	2780	590	2300	1410	2150
30	4480	3270	3890	2840	---	5340	4840	2320	711	2180	1410	2220
31	4480	---	3750	2890	---	5230	---	2600	---	2010	1380	---
TOTAL	136020	142790	122630	92330	78530	123120	223820	116880	29535	45274	48090	62500
MEAN	4388	4760	3956	2978	2805	3972	7461	3770	985	1460	1551	2083
MAX	4630	5530	4490	3690	3470	5340	9650	4460	2550	2370	2200	2470
MIN	3920	3270	3240	2190	2190	2900	4840	2320	471	706	1320	1240
ACFT	269800	283200	243200	183100	155800	244200	443900	231800	58580	89800	95390	124000
CAL YR 1984	TOTAL	1936320	MEAN	5290	MAX	14600	MIN	1720	ACFT	3841000		
WTR YR 1985	TOTAL	1221519	MEAN	3347	MAX	9650	MIN	471	ACFT	2423000		

WEBER RIVER BASIN

257

10128000 SMITH AND MOREHOUSE CREEK NEAR OAKLEY, UT

LOCATION.--Lat 40°47'09", long 111°06'42", in NW1/4NW1/4NW1/4 sec.36, T.1 N., R.7 E., Summit County, Hydrologic Unit 16020101, on right bank 2.5 mi upstream from mouth and 10 mi northeast of Oakley.

DRAINAGE AREA.--33.8 mi².

PERIOD OF RECORD.--October 1946 to September 1947, October 1975 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,360 ft from topographic map.

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

AVERAGE DISCHARGE.--11 years, 60.4 ft³/s, 43,760 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 844 ft³/s June 19, 1983, gage height, 5.46 ft; minimum, 6.8 ft³/s Jan. 3, Apr. 21, Sept. 22, 23, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 663 ft³/s June 7, gage height, 5.28 ft; minimum daily, 10 ft³/s Jan. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e35	e27	e18	e13	e11	14	17	213	341	54	31	19
2	e35	e29	e16	e11	e14	14	19	279	267	50	29	20
3	e35	e32	e14	e11	e18	13	23	401	273	47	29	20
4	e33	e28	e13	e11	e18	15	26	434	307	45	28	20
5	e28	e25	e15	e12	e17	15	26	426	344	43	28	20
6	e27	e26	e16	e15	e18	15	28	376	382	41	26	19
7	e27	e27	e17	e18	e17	15	35	371	471	40	26	19
8	e27	e29	e19	e18	e18	14	50	417	417	38	25	20
9	e26	e26	e20	e18	e18	15	72	381	390	37	25	22
10	e23	e21	e18	e17	e18	16	93	401	360	35	24	20
11	e25	e22	e17	e12	e16	17	107	317	299	35	24	22
12	e34	e25	e17	e13	e16	16	112	252	261	34	24	27
13	e31	e26	e17	e14	e16	15	120	209	245	35	24	24
14	e32	e27	e17	e15	e16	14	157	192	233	33	23	23
15	e30	e20	e17	e18	e16	15	172	187	214	31	23	21
16	e28	e23	e17	e20	e16	15	202	171	201	30	23	20
17	e29	e25	e18	e20	e16	16	222	187	182	36	23	20
18	e30	e27	e19	e20	e15	16	222	251	157	33	22	21
19	e30	e28	e19	e20	e15	16	203	275	142	38	22	44
20	e29	e30	e18	e20	e14	17	168	243	125	39	22	35
21	e29	e30	e17	e20	e14	15	140	231	111	48	22	30
22	e28	e30	e19	e20	e14	16	120	242	96	47	21	28
23	e26	e30	e17	e19	e14	17	105	301	87	46	21	26
24	e26	e29	e17	e19	e14	17	93	318	87	40	21	25
25	e27	e24	e22	e19	e14	18	84	365	117	36	20	24
26	e28	e20	e22	e19	16	18	76	416	89	34	20	23
27	e29	e18	e22	e19	14	14	75	438	76	32	20	23
28	e24	e20	e22	e20	17	17	81	424	65	32	20	22
29	e28	e22	e20	e19	---	17	104	402	61	35	19	22
30	e30	e22	e19	e13	---	19	152	358	56	38	19	21
31	e29	---	e18	e10	---	18	---	307	---	35	19	---
TOTAL	898	768	557	513	440	489	3084	9785	6456	1195	723	700
MEAN	29.0	25.6	18.0	16.5	15.7	15.8	103	316	215	38.5	23.3	23.3
MAX	35	32	22	20	18	19	222	458	471	54	31	44
MIN	23	18	13	10	11	13	17	171	56	30	19	19
ACFT	1780	1520	1100	1020	873	970	6120	19410	12810	2370	1450	1390
CAL YR 1984	TOTAL	30423	MEAN	83.1	MAX	645	MIN	12	ACFT	60340		
WTR YR 1985	TOTAL	25608	MEAN	70.2	MAX	471	MIN	10	ACFT	50790		

e Estimated.

WEBER RIVER BASIN

10128500 WEBER RIVER NEAR OAKLEY, UT

LOCATION.--Lat 40°44'14", long 111°14'50", In SE1/4NE1/4 sec.15, T.1 S., R.6 E., Summit County, Hydrologic Unit 16020101, on right bank 1.5 mi downstream from South Fork, 2.2 mi upstream from Weber-Provo diversion canal, and 3.2 mi northeast of Oakley.

DRAINAGE AREA.--162 mi².

PERIOD OF RECORD.--October 1904 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 790: 1934. WSP 1394: 1907-09, 1911-12, 1921-22. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,600 ft from topographic map. Prior to Oct. 25, 1933, staff gage at site 0.2 mi downstream at different datum. Oct. 25, 1933 to Aug. 29, 1955, water-stage recorder at present site at datum 0.5 ft higher. Aug. 29, 1955 to Oct. 27, 1981 at site 0.3 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Several small diversions for irrigation above station. Flow slightly regulated by several small lakes on headwaters and a small reservoir on Smith and Morehouse Creek. Total capacity of lakes and reservoir, 3,400 acre-ft.

AVERAGE DISCHARGE.--81 years, 222 ft³/s, 160,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,170 ft³/s June 13, 1921, gage height, 9.0 ft, site and datum then in use, from rating curve extended above 2,000 ft³/s; minimum observed, 15 ft³/s Dec. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 5	0800	1,220	7.48	June 7	1900	*1,990	*8.15
May 27	0400	1,410	7.67				

Minimum daily, 40 ft³/s Jan. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	104	e80	78	e45	74	78	595	846	295	173	101
2	130	111	e73	71	e50	71	91	767	767	281	162	103
3	124	116	e72	68	e56	e65	111	962	788	252	157	105
4	134	111	e80	67	e60	e62	118	1170	876	242	150	97
5	130	106	e64	65	e64	70	113	1180	995	246	143	94
6	124	111	e58	71	e50	e70	130	1000	1120	236	140	90
7	118	106	e65	74	e64	e62	159	979	1410	233	136	88
8	114	107	e74	75	e60	65	205	1040	1580	216	136	90
9	111	104	e70	88	e65	71	271	979	1410	210	130	94
10	109	100	e76	89	e70	76	321	1140	1180	210	142	87
11	111	109	e80	e78	74	76	356	970	1050	202	143	96
12	144	106	e72	e67	86	75	389	781	922	202	137	112
13	132	107	e63	e58	82	70	402	674	876	213	136	95
14	140	109	e63	e60	75	71	477	637	788	205	132	95
15	124	97	e60	68	80	71	534	613	740	186	128	90
16	120	109	e54	65	79	72	607	584	719	181	126	85
17	124	106	e56	59	76	72	706	584	619	207	125	83
18	122	97	e66	62	72	72	795	668	567	186	122	89
19	116	99	e68	68	74	74	706	726	539	207	118	143
20	116	99	e72	62	79	75	578	687	502	194	116	120
21	116	106	e76	e60	74	76	497	680	497	216	116	107
22	107	102	e82	e56	72	74	453	687	425	e216	117	101
23	109	100	e75	e53	72	75	411	831	398	e213	119	98
24	109	102	e82	e60	71	79	389	907	394	e210	122	93
25	111	106	e72	e68	72	88	364	1000	487	174	119	90
26	113	92	e62	e76	74	88	340	1170	420	176	113	89
27	113	80	e72	89	67	86	325	1270	377	175	117	88
28	102	82	e82	e80	71	82	352	1240	336	174	112	83
29	114	84	e90	e60	---	82	411	1170	325	213	114	82
30	111	80	e88	e43	---	75	482	1080	303	250	108	79
31	114	---	89	e40	---	82	---	938	---	195	103	---
TOTAL	3690	3048	2236	2078	1934	2301	11171	27709	22256	6616	4012	2867
MEAN	119	102	72.1	67.0	69.1	74.2	372	894	742	213	129	95.6
MAX	144	116	90	89	86	88	795	1270	1580	295	173	143
MIN	102	80	54	40	45	62	78	584	303	174	103	79
ACFT	7320	6050	4440	4120	3840	4560	22160	54960	44140	13120	7960	5690
CAL YR 1984	TOTAL	116582	MEAN	319	MAX	2270	MIN	54	ACFT	231200		
WTR YR 1985	TOTAL	89918	MEAN	246	MAX	1580	MIN	40	ACFT	178400		

e Estimated.

10129400 ROCKPORT RESERVOIR NEAR WANSHIP, UT

LOCATION.--Lat 40°47'25", long 111°24'12", in NW1/4NW1/4SE1/4 sec.29, T.1 N., R.5 E., Summit County, Hydrologic Unit 16020101, in powerhouse on downstream side of dam on Weber River, 1.2 mi south of Wanship and 1.2 mi upstream from Silver Creek.

DRAINAGE AREA.--334 mi².

PERIOD OF RECORD.--February 1957 to current year. Month-end contents only prior to October 1960, published in WSP 1734.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Mercury gage in powerhouse read once daily. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill rock-faced dam; storage began in fall of 1956; dam completed March 1957. Usable capacity, 60,860 acre-ft between elevation 5,930 ft (bottom of outlet tunnel) and 6,037 ft (top of spillway) above mean sea level. Dead storage, 1,260 acre-ft. Figures given herein represent usable contents. Water is used for irrigation, domestic, and industrial purposes.

COOPERATION.--Capacity table provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 65,030 acre-ft June 24, 27, 28, 1967 and June 12, 13, 1983, elevation, 6,040.8 ft; minimum observed since storage began, 152 acre-ft Sept. 10, 15, 1959, elevation, 5,931.2 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 63,700 acre-ft June 9, 10, elevation, 6,039.6 ft; minimum observed, 29,220 acre-ft Mar. 18, elevation, 6,001.5 ft.

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

6,001	28,860	6,020	44,110
6,005	31,800	6,030	53,600
6,010	35,660	6,040	64,140

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58410	50450	50640	48160	40350	31650	30830	44020	62380	61290	60330	53800
2	57890	50450	50540	48060	40010	31350	30910	44740	62380	61190	60220	53600
3	57370	50540	50540	47970	39670	31050	31350	45920	62490	61190	60220	53300
4	56850	50540	50450	47780	39340	30760	32180	47400	62600	61080	60110	53100
5	56330	50540	50350	47590	39000	30460	32630	49200	62710	60970	60000	52900
6	55820	50540	50160	47400	38670	30310	33320	50160	62820	60970	59900	52500
7	55210	50540	49970	47310	38340	30100	34090	51030	63040	60860	59790	52310
8	54700	50540	49970	47220	38090	29950	34790	51810	63480	60860	59580	52010
9	54200	50640	49970	47220	37760	29800	35500	52500	63700	60650	59370	51710
10	53600	50740	49870	47120	37430	29730	36460	53400	63700	60650	59050	51520
11	52900	50740	49770	46940	37110	29660	37350	55010	63480	60540	58840	51230
12	52400	50740	49770	46570	36790	29660	38170	55210	63260	60430	58620	51030
13	52010	50740	49770	46200	36540	29580	38830	55310	63040	60330	58310	50840
14	51520	50930	49580	45920	36220	29510	39340	55310	62820	60220	58100	50640
15	50930	51030	49480	45560	35900	29440	39840	55620	62600	60220	57890	50350
16	50350	51030	49390	45380	35660	29370	40600	55820	62490	60000	57680	50060
17	49770	51030	49290	45010	35350	29300	41290	55820	62380	60000	57470	49870
18	50060	51030	49200	44740	35030	29220	42250	56230	62270	59900	57270	49680
19	50060	51030	49100	44560	34720	29300	43220	56540	61940	59900	57060	49480
20	50060	50930	49100	44290	34400	29370	43750	57060	61620	60000	56750	49200
21	50160	50930	49010	44020	34170	29440	43930	57370	61510	60000	56640	49010
22	50160	50840	49010	43750	33860	29510	44020	57680	61400	60000	56440	48820
23	50260	50840	48910	43480	33470	29580	43930	58100	61400	60220	56030	48630
24	50260	50840	48820	43130	33170	29660	43750	58730	61290	60220	55720	48440
25	50260	50840	48720	42690	32940	29950	43480	59470	61400	60330	55510	48250
26	50260	50840	48530	42340	32630	30390	43130	60000	61620	60330	55310	48060
27	50260	50840	48530	42070	32330	30680	42950	60540	61620	60330	55110	47870
28	50260	50740	48530	41730	31950	30760	43040	61190	61510	60330	54910	47680
29	50350	50740	48440	41460	---	30830	43220	61620	61400	60330	54600	47500
30	50350	50740	48340	41120	---	30760	43480	61830	61290	60220	54300	47310
31	50450	---	48250	40860	---	30760	---	62160	---	60330	54100	---
MAX	58410	51030	50640	48160	40350	31650	44020	62160	63700	61290	60330	53800
MIN	49770	50450	48250	40860	31950	29220	30830	44020	61290	59900	54100	47310
(#)	6026.8	6027.1	6024.5	6016.3	6005.2	6003.6	6019.3	6038.2	6037.4	6036.5	6030.5	6023.5
(*)	-8490	+290	-2490	-7390	-8910	-1190	+12720	+18680	-870	-960	-6230	-6790

CAL YR 1984 (*) +1960

WTR YR 1985 (*) -11630

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

WEBER RIVER BASIN

10130500 WEBER RIVER NEAR COALVILLE, UT

LOCATION.--Lat 40°53'43", long 111°24'04", in NE1/4SW1/4NE1/4 sec.20, T.2 N., R.5 E., Summit County, Hydrologic Unit 16020101, on left bank 1.2 mi upstream from high-water line of Echo Reservoir, 1.4 mi south of Coalville, 1.7 mi upstream from Chalk Creek, and 5.5 mi downstream from Silver Creek.

DRAINAGE AREA.--435 mi².

PERIOD OF RECORD.--April 1927 to current year.

REVISED RECORDS.--WSP 1314: 1943(M). WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,600 ft from topographic map. Prior to Mar. 22, 1931, non-recording gage, Mar. 22, 1931 to July 18, 1967, water-stage recorder at same site at different datum.

REMARKS.--No estimated daily discharges. Records good. Many diversions for irrigation above station. No diversion between station and Echo Reservoir. Records do not include water diverted from Weber River basin through Weber-Provo diversion canal. Flow regulated by several small reservoirs above station, and since Apr. 1, 1957, by Rockport Reservoir (see station 10129400).

AVERAGE DISCHARGE.--54 years, 211 ft³/s, 153,600 acre-ft/yr, since completion of Weber-Provo diversion canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,190 ft³/s May 6, 1952; maximum gage height, 5.08 ft (present datum) May 29, 1951; minimum, 6 ft³/s Sept. 20, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,370 ft³/s June 9, gage height, 4.20 ft; minimum, 90 ft³/s July 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	541	236	225	219	323	300	252	543	766	293	206	220
2	542	232	223	215	330	296	278	547	728	269	208	225
3	543	243	225	215	305	295	321	553	723	251	213	224
4	545	240	222	216	306	299	340	541	742	250	213	226
5	539	232	221	218	322	279	332	694	790	232	213	225
6	535	232	221	222	305	216	372	814	861	204	215	235
7	529	229	222	222	317	218	393	808	988	179	215	237
8	520	240	222	225	303	216	392	844	1210	191	213	233
9	524	237	228	222	302	216	394	888	1330	192	218	232
10	533	231	226	233	303	224	377	970	1280	187	228	237
11	536	235	222	285	321	228	400	1200	1150	194	226	246
12	562	235	227	288	304	230	459	1200	989	211	227	260
13	544	242	222	314	302	224	534	991	890	183	226	257
14	540	247	220	292	304	223	616	818	816	184	223	248
15	521	234	221	277	304	227	652	752	747	190	218	249
16	515	230	221	293	304	233	706	760	681	206	213	252
17	378	229	223	293	304	241	746	695	632	197	215	251
18	262	226	221	294	304	251	746	631	571	203	210	256
19	241	224	221	289	304	264	791	620	458	208	211	277
20	239	224	221	287	305	266	806	619	380	227	208	275
21	239	224	222	298	302	264	789	616	342	217	205	275
22	236	224	225	310	301	251	796	602	326	219	206	278
23	232	223	226	309	302	250	798	594	315	230	219	272
24	233	222	224	323	301	268	787	592	287	226	220	269
25	237	224	220	314	301	280	791	683	365	217	218	275
26	238	222	221	309	302	280	691	864	418	216	208	268
27	245	223	220	309	301	263	564	956	400	208	210	264
28	235	224	221	309	302	252	522	1040	377	201	215	267
29	237	223	221	310	---	246	537	1060	352	197	220	272
30	235	224	219	309	---	236	542	949	315	222	219	273
31	240	---	221	326	---	246	---	815	---	215	221	---
TOTAL	12296	6911	6894	8545	8584	7782	16724	24259	20229	6619	6680	7578
MEAN	397	230	222	276	307	251	557	783	674	214	215	253
MAX	562	247	228	326	330	300	806	1200	1330	293	228	278
MIN	232	222	219	215	301	216	252	541	287	179	205	220
ACFT	24390	13710	13670	16950	17030	15440	33170	48120	40120	13130	13250	15030
CAL YR 1984	TOTAL	155756	MEAN	426	MAX	1620	MIN	177	ACFT	308900		
WTR YR 1985	TOTAL	133101	MEAN	365	MAX	1330	MIN	179	ACFT	264000		

WEBER RIVER BASIN

261

10131000 CHALK CREEK AT COALVILLE, UT

LOCATION.--Lat 40°55'14", long 111°24'03", In NW1/4NE1/4SE1/4 sec.8, T.2 N., R.5 E., Summit County, Hydrologic Unit 16020101, on left bank 100 ft downstream from bridge on U.S. Highway 189 in Coalville and 0.3 mi upstream from mouth.

DRAINAGE AREA.--250 mi².

PERIOD OF RECORD.--November 1904, March to November 1905, April 1927 to current year.

REVISED RECORDS.--WSP 1564: 1929. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,560.6 ft NGVD of 1929. Prior to Feb. 13, 1931, nonrecording gage at site 100 ft upstream at different datum. Feb. 13, 1931 to Oct. 15, 1941, water-stage recorder at site 300 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions above station used for irrigation of land in the drainage basin above the station. Flow slightly affected by Chalk Creek Reservoir, capacity, 1,600 acre-ft.

AVERAGE DISCHARGE.--58 years, 68.3 ft³/s, 49,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,570 ft³/s June 1, 1983, gage height, 5.26 ft; minimum, less than 1 ft³/s for several days in 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 18	0400	725	2.40	May 10	1800	*956	*2.94
May 4	0500	734	2.42				

Minimum, 6.6 ft³/s Nov. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	63	53	42	e35	48	91	398	e256	104	51	21
2	59	74	43	27	e40	48	140	457	e250	93	43	18
3	55	81	49	33	41	47	212	568	e245	83	44	17
4	55	76	43	37	40	43	278	653	e230	79	45	17
5	53	60	29	40	38	48	199	565	e220	72	41	19
6	53	67	29	46	39	48	215	492	e215	64	36	22
7	57	63	31	50	38	45	279	475	e208	59	36	29
8	53	69	49	50	38	47	340	466	e200	56	35	30
9	52	65	65	50	38	46	426	457	e190	55	35	32
10	51	e51	56	49	39	53	412	782	e182	52	35	32
11	50	e63	59	48	40	54	372	793	e176	55	33	32
12	88	e70	53	33	40	53	356	578	e176	57	32	32
13	74	e66	46	35	40	45	342	453	171	62	32	34
14	76	e56	34	39	39	50	346	408	163	65	32	35
15	66	e50	35	46	40	53	384	413	150	56	30	37
16	62	e55	51	46	41	53	441	389	139	55	30	38
17	67	e49	43	45	41	53	500	393	135	58	30	38
18	69	46	44	45	36	53	617	376	123	53	29	38
19	64	56	48	46	36	55	514	376	115	46	29	41
20	64	49	50	46	43	55	398	363	114	54	27	44
21	66	66	50	47	42	57	335	364	109	72	27	46
22	53	59	48	45	39	53	310	349	100	81	26	46
23	54	54	49	42	34	57	297	365	102	93	25	45
24	58	60	49	42	36	130	289	359	98	84	22	44
25	61	66	34	43	48	140	280	360	162	82	22	44
26	65	47	41	45	43	127	277	366	159	73	23	41
27	79	41	52	45	48	98	266	359	140	69	23	39
28	53	67	54	44	43	84	258	339	129	60	23	38
29	76	61	50	45	---	87	294	309	118	57	23	37
30	70	59	49	42	---	77	352	292	110	57	23	36
31	79	---	51	e38	---	87	---	278	---	57	23	---
TOTAL	1941	1809	1437	1331	1115	1994	9820	13595	4885	2063	965	1022
MEAN	62.6	60.3	46.4	42.9	39.8	64.3	327	439	163	66.5	31.1	34.1
MAX	88	81	65	50	48	140	617	793	256	104	51	46
MIN	50	41	29	27	34	43	91	278	98	46	22	17
ACFT	3850	3590	2850	2640	2210	3960	19480	26970	9690	4090	1910	2030
CAL YR 1984	TOTAL	58586	MEAN	160	MAX	1240	MIN	29	ACFT	116200		
WTR YR 1985	TOTAL	41977	MEAN	115	MAX	793	MIN	17	ACFT	83260		

e Estimated.

WEBER RIVER BASIN

10131500 ECHO RESERVOIR AT ECHO, UT

LOCATION.--Lat 40°57'50", long 111°25'55", in NE1/4NW1/4SW1/4 sec.30, T.3 N., R.5 E., Summit County, Hydrologic Unit 16020101, near outlet works at left end of Echo Dam on Weber River, 1.1 mi southeast of Echo.

DRAINAGE AREA.--726 mi².

PERIOD OF RECORD.--October 1930 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Staff gage on left side of dam read once daily. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to 1932, elevations obtained from mercury gage in valve house and staff gage.

REMARKS.--Reservoir is formed by earthfill, rock-faced dam; storage began in October 1930; dam completed in 1931. Capacity, 73,940 acre-ft between elevation 5,450 ft (bottom of outlet tunnel) and 5,560 ft (top of radial gages in spillway) above mean sea level. Dead storage negligible. Figures given herein represent total contents. Water is used for irrigation of the Echo Project.

COOPERATION.--Capacity table provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 75,420 acre-ft June 13, 1983, elevation, 5,561.0 ft; no contents Sept. 12 to Dec. 3, 1931, Sept. 24 to Nov. 2, 1934, Oct. 12 to Nov. 21, 1944, Oct. 1 to Nov. 15, 1954, Sept. 11-20, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 74,540 acre-ft June 9,10, elevation, 5,560.4 ft; minimum, 24,130 acre-ft Oct. 19, elevation, 5,517.1 ft.

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

5,517	24,040	5,545	53,360
5,520	26,620	5,550	59,880
5,525	31,180	5,555	66,740
5,530	36,100	5,560	73,940
5,535	41,440	5,561	75,420
5,540	47,200		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39250	32910	51480	68440	48650	43120	46250	57760	73800	70150	52730	30330
2	38500	33590	51970	69010	47920	43010	46010	59480	73800	69720	52100	29590
3	37660	34280	52600	69440	47200	43010	46010	61360	73940	69010	51600	28860
4	36720	34980	53110	69870	46490	42900	46370	63270	73940	68150	50850	28220
5	35800	35590	53740	70150	46010	42780	46840	65480	73940	67440	50240	27680
6	34980	36100	54380	70300	45540	42780	46960	66740	73940	66740	49620	27330
7	34180	36620	55020	70150	45080	42780	46960	67300	73940	65900	48890	27060
8	33400	37240	55410	69290	44730	42780	47200	67440	74240	65060	48400	26970
9	32620	37870	55920	68720	44610	42780	47320	67590	74540	64230	47680	26800
10	31750	38500	56450	67730	44610	42780	47440	68010	74540	63400	46960	26360
11	30990	39140	56840	66740	44380	42780	47200	69580	74390	62580	46130	26100
12	30240	39790	57360	65900	44380	43120	46960	70730	73940	61900	45310	26010
13	29500	40440	57890	65060	44150	43350	46720	70880	74090	61220	44610	26010
14	28760	41110	58280	64230	44150	43580	46490	71160	74240	60420	43920	26100
15	28040	41770	58810	63400	44150	44040	46610	71890	74240	59880	43350	26010
16	27330	42440	59480	62580	44040	44500	47200	71750	74240	59210	42670	25920
17	26620	43120	60010	61760	43920	44380	48040	71600	74240	58550	42000	25920
18	25750	43810	60550	60820	43920	44840	49870	72040	74090	58020	41330	25920
19	24130	44500	61090	59880	43810	45780	51850	72920	73940	57360	40660	26100
20	24720	45080	61630	58940	43690	46720	52860	73500	73650	56840	39790	26100
21	25400	45660	62170	58020	43690	46840	53490	73500	72920	56320	39040	26100
22	26100	46250	62720	57100	43690	46720	54000	73500	72180	55920	38180	26100
23	26970	46840	63400	56190	43460	46720	54120	73650	71600	55800	37340	26100
24	27500	47320	63950	55280	43460	46490	54120	73800	70880	55670	36520	26100
25	28130	47920	64510	54380	43460	46490	54000	73940	70440	55410	35700	26100
26	28760	48520	65060	53360	43350	46610	53870	73650	70590	55150	34880	26100
27	29400	49130	65760	52480	43240	46720	53870	73360	70880	54890	34080	26100
28	30050	49620	66320	51600	43240	46490	54120	73360	71020	54380	33400	26100
29	30900	50240	66880	50730	---	46490	54640	73650	70880	53870	32620	26100
30	31560	50850	67440	49990	---	46370	56060	73500	70590	53490	31840	26100
31	32230	---	68010	49250	---	46250	---	73650	---	53110	31080	---
MAX	39250	50850	68010	70300	48650	46840	56060	73940	74540	70150	52730	30330
MIN	24130	32910	51480	49250	43240	42780	46010	57760	70440	53110	31080	25920
(#)	5526.1	5543.0	5555.9	5541.7	5536.6	5539.2	5547.1	5559.8	5557.7	5544.8	5524.9	5519.4
(*)	-7890	+18620	+17160	-18760	-6010	+3010	+9810	+17590	-3060	-17480	-22030	-4980

CAL YR 1984 (*) +32820

WTR YR 1985 (*) -14020

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.

WEBER RIVER BASIN

263

10132490 LOST CREEK RESERVOIR NEAR CROYDON, UT

LOCATION.--Lat 41°11'05", long 111°23'59", in NW1/4SE1/4NE1/4 sec.8, T.5 N., R.5 E., Morgan County, Hydrologic Unit 16020101, 1.9 mi upstream from Hell Canyon and 8.1 mi northeast of Croydon.

DRAINAGE AREA.--123 mi².

PERIOD OF RECORD.--April 1967 to current year.

GAGE.--Indicating float tape in gage house on top of dam. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill rock-faced dam; active storage began Apr. 22, 1967. Active capacity, 20,010 acre-ft at elevation 6,005.0 ft above mean sea level. Dead storage, 2,500 acre-ft between elevation 5,835.0 ft (streambed at dam axis) and 5,912.3 ft (top of dead storage). Figures given herein represent active contents. Water is used for irrigation, fish and wildlife propagation along Lost Creek, and irrigation, municipal, and industrial use below confluence of Lost Creek and Weber River.

COOPERATION.--Gage-height record and capacity table provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 21,270 acre-ft, May 30, June 1, 1983; elevation, 6,008.4 ft. Minimum since original filling of reservoir, 4,390 acre-ft Feb. 26, 29, 1984, elevation, 5,946.1 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 20,670 acre-ft May 20; elevation, 6,006.8 ft; minimum contents observed, 9,040 acre-ft Apr. 5, 7; elevation, 5,969.1 ft.

MONTHEND ELEVATION, IN FEET, AND CONTENTS AT 2400, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	5,991.4	15,340	-
Oct. 31	5,990.9	15,180	-160
Nov. 30	5,993.7	16,080	+900
Dec. 31	5,996.1	16,870	+790
CAL YR 1984	-	-	+7,060
Jan. 31	5,990.0	14,890	-1,980
Feb. 28	5,984.3	13,150	-1,740
Mar. 31	5,976.2	10,860	-2,290
Apr. 30	5,989.6	14,770	+3,910
May 31	6,006.2	20,440	+5,670
June 30	6,004.8	19,940	-500
July 31	5,997.8	17,450	-2,490
Aug. 31	5,989.5	14,740	-2,710
Sept. 30	5,987.2	14,020	-720
WTR YR 1985	-	-	-1,320

WEBER RIVER BASIN

10134000 EAST CANYON RESERVOIR NEAR MORGAN, UT

LOCATION.--Lat 40°55'14", long 111°35'59", in NE1/4SE1/4NW1/4 sec.10, T.2 N., R.3 E., Morgan County, Hydrologic Unit 16020102, on upstream face of concrete dam on East Canyon Creek, 9.0 mi southeast of Morgan.

DRAINAGE AREA.--144 mi².

PERIOD OF RECORD.--October 1931 to current year. October 1931 to September 1937, month-end contents only published in WSP 1314.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Elevations determined from direct readings on upstream face of dam on days shown. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to Oct. 1, 1953, staff gage at site 500 ft east of dam and Oct. 1, 1953 to Sept. 30, 1964, tape gage on upstream face of dam then in use at different datum. Oct. 1, 1964 to Sept. 30, 1965, temporary reference marks at present datum set by Bureau of Reclamation.

REMARKS.--Reservoir was formed in 1896 by a 58-ft rockfill dam, capacity, 3,850 acre-ft, which was raised 25 ft in 1900, capacity, 9,000 acre-ft, raised 12 ft more in 1902, capacity, 14,000 acre-ft, was replaced in 1917 by concrete dam which formed a reservoir having a capacity of 25,790 acre-ft (revised), and was replaced in 1966 by present concrete thin-arch dam which forms a reservoir having an active capacity of 48,110 acre-ft between elevation 5,577.0 ft and 5,705.0 ft. Dead storage, 3,090 acre-ft. Figures given herein represent active contents. Water is used for irrigation in Morgan, Davis, and Weber Counties.

COOPERATION.--Capacity table provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 49,840 acre-ft June 1, 1983, elevation, 5,707.5 ft; no contents at times in 1931, 1934, 1937, 1946, 1954, 1961, 1965, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 48,660 acre-ft June 1, 3, 5, elevation, 5,705.8 ft; minimum observed, 25,150 acre-ft Mar. 9, elevation, 5,665.0 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	-	*41,420	-
Oct. 31	5,693.00	40,300	-1,120
Nov. 30	-	*43,780	+3,480
Dec. 31	5,702.70	46,550	+2,770
CAL YR 1984	-	-	+16,730
Jan. 31	5,690.80	38,950	-7,600
Feb. 28	5,668.10	26,630	-12,320
Mar. 31	-	*26,000	-630
Apr. 30	-	*36,630	+10,630
May 31	5,705.70	48,590	+11,960
June 30	-	*47,290	-1,300
July 31	-	*41,050	-6,240
Aug. 31	5,688.40	37,510	-3,540
Sept. 30	5,686.20	36,230	-1,280
WTR YR 1985	-	-	-5,190

* No gage reading, contents interpolated.

WEBER RIVER BASIN

265

10134500 EAST CANYON CREEK NEAR MORGAN, UT

LOCATION.--Lat 40°55'21", long 111°36'23", in SW1/4NW1/4NW1/4 sec.10, T.2 N., R.3 E., Morgan County, Hydrologic Unit 16020102, on right bank 2,500 ft downstream from East Canyon Dam, 2.4 mi upstream from Sheep Canyon, and 8.7 mi southeast of Morgan.

DRAINAGE AREA.--144 mi².

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only prior to October 1937, published in WSP 1314.

GAGE.--Water-stage recorder and Lyman rectangular weir. Altitude of gage is 5,460 ft from river-profile map.

REVISED RECORDS.--WSP 1634, WDR UT-77-1: Drainage area.

REMARKS.--No estimated daily discharges. Records good. No diversions between station and East Canyon Reservoir (see preceding page), which completely regulates flow.

AVERAGE DISCHARGE.--54 years, 57.4 ft³/s, 41,590 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 872 ft³/s May 4, 1952, gage height, 3.49 ft; minimum daily, 0.2 ft³/s Dec. 19, 29, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 283 ft³/s Jan. 20, gage height, 1.64 ft; minimum daily discharge, 7.2 ft³/s Nov. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	7.5	8.6	9.4	267	175	164	35	150	174	125	90
2	119	7.2	8.6	9.4	266	169	223	35	157	174	117	90
3	119	7.2	8.6	9.4	265	164	268	35	157	174	116	90
4	119	7.5	8.6	9.4	264	161	270	35	154	173	116	90
5	119	7.4	8.6	25	262	160	270	35	149	174	116	89
6	119	7.7	8.6	37	257	107	270	35	142	173	116	90
7	119	7.9	8.6	65	260	48	271	35	137	172	116	89
8	119	8.0	8.6	102	262	48	271	35	132	172	116	84
9	119	7.9	8.6	102	262	47	272	35	129	172	115	69
10	119	7.9	8.6	139	255	48	273	36	126	172	99	65
11	119	7.9	8.6	177	254	48	273	36	123	172	91	65
12	119	7.9	8.6	176	259	48	275	36	120	172	91	65
13	118	7.9	8.6	178	260	48	275	36	115	171	91	65
14	117	7.9	8.6	183	256	48	268	36	110	170	91	57
15	117	7.9	8.6	192	255	50	196	36	104	170	91	53
16	117	7.9	8.7	203	255	92	48	36	100	170	91	52
17	117	7.9	8.8	220	255	110	48	36	95	170	91	52
18	117	7.9	8.7	220	252	108	48	36	91	170	91	46
19	61	7.9	8.7	258	252	107	49	37	86	169	91	41
20	8.6	7.9	8.9	279	257	107	49	98	81	170	91	41
21	8.6	7.9	8.9	276	255	108	49	147	78	169	91	35
22	8.4	7.9	8.8	273	253	107	49	147	102	169	91	32
23	7.9	7.9	8.9	271	244	107	49	147	107	168	91	32
24	7.9	8.0	8.8	270	248	108	38	147	126	168	91	32
25	7.9	8.4	8.9	270	251	109	33	147	138	168	91	32
26	7.9	8.4	8.9	269	239	141	33	153	161	168	91	32
27	7.9	8.5	9.0	269	241	163	33	162	174	151	91	32
28	7.9	9.0	9.4	185	209	162	33	173	175	142	91	32
29	7.9	8.6	9.4	140	---	161	33	133	174	141	91	32
30	7.9	8.6	9.4	268	---	160	34	139	174	142	90	18
31	7.9	---	9.4	267	---	163	---	143	---	141	90	---
TOTAL	2288.7	238.4	272.6	5351.6	7115	3382	4465	2412	3867	5161	3061	1692
MEAN	73.8	7.95	8.79	173	254	109	149	77.8	129	166	98.7	56.4
MAX	119	9.0	9.4	279	267	175	275	173	175	174	125	90
MIN	7.9	7.2	8.6	9.4	209	47	33	35	78	141	90	18
ACFT	4540	473	541	10610	14110	6710	8860	4780	7670	10240	6070	3360
CAL YR 1984	TOTAL	41372.5	MEAN	113	MAX	389	MIN	7.2	ACFT	82060		
WTR YR 1985	TOTAL	39306.3	MEAN	108	MAX	279	MIN	7.2	ACFT	77960		

WEBER RIVER BASIN

10136500 WEBER RIVER AT GATEWAY, UT

LOCATION.--Lat 41°08'13", long 111°49'54", in NE1/4SW1/4 sec.27, T.5 N., R.1 E., Morgan County, Hydrologic Unit 16020102, on left bank 400 ft downstream from tailrace of Gateway powerplant, 500 ft upstream from Union Pacific Railroad bridge, 1,200 ft downstream from Strawberry Creek, and 3,200 ft east of section house at Gateway.

DRAINAGE AREA.--1,627 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1889 to June 1893, July to December 1893 (gage heights only), August 1894 to September 1899, August to November 1900, January to October 1901, April to June 1903 (gage heights and discharge measurements only), July to August 1919, August 1920 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Uinta" 1889-1903.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,800 ft by barometer. Oct. 13, 1889 to July 11, 1903, nonrecording gage at site 1.2 mi downstream at different datum. June 22, 1919 to Oct. 22, 1929, water-stage recorder at site 900 ft upstream at different datum. Oct. 22, 1929 to Nov. 21, 1964, at sites 1,300 ft downstream at different datums.

REMARKS.--Records good except for estimated daily discharges, which are fair. Many diversions for irrigation above and below station. Water diverted above station by Gateway Canal since July 1957, part of which returns to river above station through tailrace of Gateway hydroelectric powerplant. Flow regulated by Rockport, Echo, Lost Creek, and East Canyon Reservoirs (see stations 10129400, 10131500, 10132490, and 10134000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,980 ft³/s May 31, 1896; minimum observed, 33 ft³/s Feb. 3, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,510 ft³/s May 11, gage height, 5.66 ft; minimum daily, 155 ft³/s Jan. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1430	270	238	184	e1300	e800	1380	1260	1560	611	505	523
2	1390	247	206	156	e1330	e790	1740	1400	1600	614	485	637
3	1390	378	213	155	e1350	e790	2160	1590	1450	638	495	688
4	1380	309	199	158	e1230	e780	2210	1690	1450	643	486	641
5	1320	305	183	199	1090	e720	2080	1490	1490	671	499	584
6	1280	264	182	418	1060	e625	2390	1820	1410	642	476	507
7	1280	233	179	651	1060	e545	2430	2110	1390	660	438	445
8	1260	330	186	886	1060	e545	2620	2120	1450	639	453	419
9	1240	405	206	908	953	e545	2970	2060	1480	632	493	422
10	1220	328	218	1020	946	e550	3210	2920	1690	620	509	464
11	1240	309	225	1130	933	e540	3260	3370	1730	625	525	446
12	1350	315	221	e1130	894	e590	3310	3290	1520	617	550	553
13	1310	329	208	e1140	881	e397	3220	2860	1170	660	545	517
14	1310	419	190	e1150	875	356	3240	2290	1080	625	532	483
15	1290	337	184	e1170	868	381	3340	2480	1010	591	531	474
16	1260	305	203	1170	862	724	2960	2550	942	561	518	432
17	1310	280	195	1170	e865	938	2980	2290	891	551	516	393
18	1280	260	188	1200	e865	723	2640	1960	752	557	494	417
19	1010	252	191	1230	e860	797	2560	1820	663	611	502	469
20	342	245	192	1260	e880	952	2650	1980	673	637	513	497
21	304	246	208	1270	e865	1230	2380	2170	728	596	525	469
22	275	241	219	1270	e860	1110	2280	2090	714	590	515	457
23	253	236	218	1270	e855	1160	2310	1970	701	599	499	451
24	240	245	195	1260	e860	1410	2210	1930	688	573	515	433
25	231	284	180	1270	e860	1660	2120	2010	856	563	538	422
26	235	250	161	1270	e845	1500	1970	2230	795	509	541	398
27	267	220	198	e1260	e850	1380	1630	2250	703	483	511	385
28	243	245	202	e1250	e840	1260	1390	2090	664	530	501	376
29	265	245	201	e1210	---	1220	1200	1960	677	587	513	372
30	259	237	197	e1290	---	1200	1130	1910	662	583	495	372
31	298	---	193	e1290	---	1240	---	1720	---	525	500	---
TOTAL	27762	8569	6179	30395	26997	27458	71970	65680	32587	18543	15718	14146
MEAN	896	286	199	980	964	886	2399	2119	1086	598	507	472
MAX	1430	419	238	1290	1350	1660	3340	3370	1730	671	550	688
MIN	231	220	161	155	840	356	1130	1260	662	483	438	372
ACFT	55070	17000	12260	60290	53550	54460	142800	130300	64640	36780	31180	28060

CAL YR 1984	TOTAL	479476	MEAN	1310	MAX	4890	MIN	161	ACFT	951000
WTR YR 1985	TOTAL	346004	MEAN	948	MAX	3370	MIN	155	ACFT	686300

e Estimated.

WEBER RIVER BASIN

267

10137500 SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UT

LOCATION.--Lat 41°16'07", long 111°40'24", in SE1/4NE1/4SW1/4 sec.12, T.6 N., R.2 E., Weber County, Hydrologic Unit 16020102, on right bank 0.5 mi downstream from Magpie Creek, 0.5 mi upstream from Huntsville Mountain Canal, 5.0 mi downstream from Causey Dam, and 5.0 mi east of Huntsville.

DRAINAGE AREA.--137 mi².

PERIOD OF RECORD.--March 1921 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,190 ft by barometer. Prior to Aug. 14, 1934, at site 300 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. One small diversion above station. Flow regulated by Causey Reservoir since Jan. 4, 1966.

AVERAGE DISCHARGE.--64 years, 116 ft³/s, 84,040 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft³/s May 3, 1952, gage height, 5.98 ft; minimum, 9 ft³/s Feb. 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,080 ft³/s Apr. 17; minimum daily, 41 ft³/s Nov. 6, Jan. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	50	49	48	119	128	175	453	204	102	94	91
2	103	48	48	e45	120	128	225	549	193	102	94	94
3	103	54	49	e43	127	128	291	649	187	106	94	91
4	107	50	50	e44	127	126	313	710	177	107	94	86
5	113	48	e47	e46	124	126	287	613	165	105	90	97
6	113	41	e46	48	128	126	305	458	157	105	85	81
7	113	44	e45	47	128	105	350	328	151	104	84	81
8	117	48	48	47	133	78	429	245	146	104	84	81
9	119	48	47	47	133	79	574	192	142	104	85	72
10	119	46	46	47	132	82	593	331	138	103	85	61
11	118	48	47	47	132	86	700	734	133	103	85	65
12	121	50	47	e45	132	94	793	620	129	103	86	73
13	117	56	47	e43	131	91	796	530	124	104	87	65
14	117	67	e45	e41	131	100	812	470	119	103	88	63
15	114	59	e44	e45	131	112	854	485	116	102	88	63
16	114	57	e47	e47	131	120	994	447	113	102	87	62
17	116	55	e47	45	130	134	1080	439	110	102	87	62
18	114	52	e45	45	130	143	985	443	106	102	86	65
19	e70	52	46	45	130	170	935	432	104	102	88	69
20	e54	51	47	45	133	186	886	402	101	101	87	65
21	e47	50	47	45	130	187	837	373	100	101	87	64
22	e44	50	47	45	130	178	796	351	96	97	86	63
23	e43	50	47	48	130	179	612	331	95	91	86	51
24	e43	52	47	67	129	202	533	311	92	89	85	51
25	e45	52	e46	89	116	221	429	296	119	91	85	51
26	e44	50	e45	89	128	204	337	287	131	94	85	51
27	e45	48	48	88	128	189	359	263	113	94	85	51
28	e42	50	49	87	127	176	325	245	105	94	85	51
29	e44	49	47	96	---	161	343	232	103	94	89	51
30	e48	50	48	135	---	146	397	228	103	94	91	48
31	e54	---	49	127	---	148	---	210	---	95	91	---
TOTAL	2665	1525	1457	1826	3600	4333	17345	12657	3870	3100	2713	2019
MEAN	86.0	50.8	47.0	58.9	129	140	578	408	129	100	87.5	67.3
MAX	121	67	50	135	133	221	1080	734	204	107	94	97
MIN	42	41	44	41	116	78	175	192	92	89	84	48
ACFT	5290	3020	2890	3620	7140	8590	34400	25110	7680	6150	5380	4000
CAL YR 1984	TOTAL	77797	MEAN	213	MAX	1490	MIN	41	ACFT	154300		
WTR YR 1985	TOTAL	57110	MEAN	156	MAX	1080	MIN	41	ACFT	113300		

e Estimated.

WEBER RIVER BASIN

10139300 WHEELER CREEK NEAR HUNTSVILLE, UT

LOCATION.--Lat 41°15'14", long 111°50'32", In SW1/4NW1/4SE1/4 sec.16, T.6 N., R.1 E., Weber County, Hydrologic Unit 16020102, on right bank 150 ft upstream from mouth, 150 ft downstream from culvert under State Highway 39, 250 ft downstream from Pine View Dam on Ogden River, 3.8 mi west of Huntsville, and 7.2 mi east of Ogden.

DRAINAGE AREA.--11.1 mi².

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,800 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Records do not include 1,250 acre-feet diverted above gage by Ogden City Water Department.

AVERAGE DISCHARGE.--27 years, 10.7 ft³/s, 7,750 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 533 ft³/s May 21, 1981, gage height, 3.95 ft from indirect measurement; no flow Dec. 5, 1962, July 25, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 3	0300	66	2.10	Mar. 24	1900	46	1.97
Apr. 9	1700	*177	*2.60	May 10	2000	84	2.22

Minimum daily discharge, 0.04 ft³/s Aug. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.1	8.1	4.5	3.1	2.7	2.6	18	28	19	.65	.04	.14
2	e1.1	7.3	4.2	3.1	2.7	2.7	37	32	17	.65	.12	.16
3	e1.1	26	4.3	3.0	2.6	2.8	62	45	18	.65	.59	.14
4	e1.1	11	3.9	3.0	2.5	2.8	54	48	19	.71	1.2	.12
5	e1.1	8.1	3.7	2.9	2.5	2.8	57	45	15	.71	.65	.12
6	e1.1	7.1	3.6	2.8	2.5	2.8	70	42	15	.59	.32	.12
7	e1.1	7.5	3.8	2.9	2.5	2.7	73	39	15	.59	.40	.12
8	e1.1	10	3.9	2.8	2.5	2.7	81	43	15	.54	.71	.12
9	e1.1	10	3.7	2.7	2.4	2.9	99	44	14	.54	.49	.10
10	e1.8	8.5	3.8	2.6	2.4	3.6	72	61	13	.54	.49	.10
11	e3.0	7.8	3.8	2.7	2.2	4.9	78	63	12	.54	.49	.76
12	e5.0	7.4	3.7	2.7	2.2	6.0	66	50	11	.54	.49	4.8
13	e4.5	8.5	3.6	2.7	2.2	5.7	64	37	10	.59	.54	1.0
14	e4.0	11	3.5	2.7	2.2	5.6	64	29	8.8	.59	.49	.57
15	e3.5	8.7	3.6	e2.7	2.3	6.0	65	44	7.8	.59	.54	1.1
16	e3.4	7.9	3.4	e2.7	2.2	7.2	65	40	7.3	1.0	.36	1.1
17	e4.0	6.9	3.4	e2.7	2.2	9.3	73	39	6.6	1.8	.23	1.0
18	e4.0	6.1	3.4	2.6	2.2	12	66	41	5.9	.44	.23	1.8
19	e3.8	5.9	3.4	2.5	2.2	17	67	43	5.2	.44	.20	2.4
20	e3.6	5.5	3.4	2.5	2.2	19	53	42	4.8	.44	.20	1.9
21	e3.6	5.4	3.4	2.5	2.2	17	43	40	4.1	.44	.20	1.9
22	e3.6	5.2	3.4	2.5	2.3	12	43	40	3.7	1.8	.20	1.8
23	e3.6	5.1	3.4	2.5	2.4	14	35	41	3.2	1.4	.26	1.8
24	e3.6	5.3	3.2	2.5	2.4	24	31	42	3.7	.40	.26	1.8
25	e4.0	5.8	3.4	2.5	2.5	30	27	41	5.9	.36	.23	1.8
26	e4.8	5.0	3.4	2.5	2.4	24	24	43	4.0	.36	.29	1.8
27	e6.0	4.7	3.6	2.5	2.5	18	23	40	2.3	.32	.36	1.8
28	e4.6	5.2	3.4	2.5	2.5	14	24	30	1.9	.29	.20	1.7
29	e5.0	5.0	3.0	2.5	---	12	25	25	1.3	.29	.16	1.7
30	e4.7	4.8	3.0	2.7	---	11	24	24	.78	2.5	.16	1.7
31	e11	---	3.0	2.7	---	11	---	21	---	1.1	.16	---
TOTAL	105.0	230.8	110.8	83.3	66.6	308.1	1583	1242	270.28	22.40	11.26	35.47
MEAN	3.39	7.69	3.57	2.69	2.38	9.94	52.8	40.1	9.01	.72	.36	1.18
MAX	11	26	4.5	3.1	2.7	30	99	63	19	2.5	1.2	4.8
MIN	1.1	4.7	3.0	2.5	2.2	2.6	18	21	.78	.29	.04	.10
ACFT	208	458	220	165	132	611	3140	2460	536	44	22	70

CAL YR 1984	TOTAL	7714.96	MEAN	21.1	MAX	128	MIN	.81	ACFT	15300
WTR YR 1985	TOTAL	4069.01	MEAN	11.1	MAX	99	MIN	.04	ACFT	8070

e Estimated.

WEBER RIVER BASIN

269

10141000 WEBER RIVER NEAR PLAIN CITY, UT

LOCATION.--Lat 41°16'42", long 112°05'28", in NW1/4NW1/4NE1/4 sec.8, T.6 N., R.2 W., Weber County, Hydrologic Unit 16020102, on upstream side of right highway bridge abutment, on State Highway 40, 1 mi downstream from Fourmile Creek, 1.5 mi south of Plain City, and 6 mi upstream from mouth.

DRAINAGE AREA.--2,081 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1904 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,207.10 ft NGVD of 1929. Prior to Aug. 29, 1949, nonrecording gage at same site and datum, and Aug. 30, 1949 to June 22, 1966, water-stage recorder on right bank 50 ft upstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Practically entire flow is diverted during summer months for irrigation above station. Flow regulated by Rockport, Echo, Lost Creek, East Canyon, and Pine View Reservoirs; also diversion above station to Willard Bay Reservoir (see stations 10129400, 10131500, 10132490, 10134000, and 10140800).

AVERAGE DISCHARGE.--20 years (1966-85), 594 ft³/s, 430,400 acre-ft/yr since completion of storage reservoirs listed in Remarks paragraph.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft³/s May 6, 1952, gage height, 19.01 ft; practically no flow during latter part of several summers since 1915.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,500 ft³/s May 11; minimum daily, 80 ft³/s June 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1420	e250	199	651	1620	819	1790	e1690	1260	106	117	108
2	1420	e245	194	632	1620	840	2190	e1800	1230	102	114	143
3	1390	e270	250	617	1660	849	2640	e1900	1110	104	112	206
4	1420	e290	455	621	1660	819	2950	e2000	1030	106	112	160
5	1370	e275	468	623	1620	808	2160	e2020	928	110	111	143
6	1300	e250	589	783	1490	720	e2500	e2200	790	125	111	147
7	1310	e230	595	994	1350	674	e2650	e2600	736	117	111	117
8	1290	327	613	1250	1290	742	e2900	e2450	674	115	111	e90
9	1250	380	630	1320	1270	740	e3200	e2700	684	109	110	e85
10	1190	260	600	1390	1220	779	e3400	e3000	921	111	110	98
11	1230	253	475	1520	1220	862	e3450	e3500	895	117	110	138
12	1500	253	488	1530	1180	951	e3450	e3450	684	117	110	435
13	1260	259	478	1520	1140	750	e3400	e3100	382	116	110	331
14	1240	340	443	1530	1100	686	e3350	e2950	282	126	109	314
15	1220	283	438	1550	1100	678	e3450	e2900	213	119	109	312
16	1200	254	458	1570	1090	882	e3400	e3000	e150	119	109	264
17	1270	e240	456	1590	1080	1210	2960	e2700	e115	119	109	227
18	1300	e235	443	1600	1070	1120	2620	e2300	e98	115	109	221
19	1420	e230	456	1620	1060	1040	2410	e2000	e85	121	109	426
20	657	e225	523	1670	1150	1190	2570	e1680	e80	139	109	410
21	490	e220	676	1670	1120	1520	2390	e1820	e87	126	125	403
22	460	e220	686	1680	1100	1470	2300	e1660	94	125	109	397
23	443	e220	690	1680	1090	1420	2380	e1550	100	145	109	376
24	430	e230	676	1670	1100	1570	2300	1490	93	133	109	364
25	416	e250	653	1670	1120	1950	2030	1480	130	118	109	337
26	413	e220	621	1680	1090	1970	e1820	1690	226	115	109	336
27	485	e200	655	1670	1020	1920	e1750	1790	200	114	110	339
28	446	e190	676	1660	866	1780	e1650	1680	156	123	108	330
29	270	213	668	1550	---	1710	e1600	1700	122	136	108	310
30	e240	209	665	1590	---	1680	e1600	1680	117	153	108	316
31	e265	---	663	1620	---	1700	---	1530	---	136	108	---
TOTAL	30015	7521	16580	42721	34496	35849	77260	68010	13672	3737	3424	7883
MEAN	968	251	535	1378	1232	1156	2575	2194	456	121	110	263
MAX	1500	380	690	1680	1660	1970	3450	3500	1260	153	125	435
MIN	240	190	194	617	866	674	1600	1480	80	102	108	85
ACFT	59530	14920	32890	84740	68420	71110	153200	134900	27120	7410	6790	15640
CAL YR 1984	TOTAL	450545	MEAN	1231	MAX	5500	MIN	121	ACFT	893700		
WTR YR 1985	TOTAL	341168	MEAN	935	MAX	3500	MIN	80	ACFT	676700		

e Estimated.

WEBER RIVER BASIN

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year.

SPECIFIC CONDUCTANCE: October 1975 to September 1981, once daily.

WATER TEMPERATURES: October 1975 to September 1981, once daily.

SEDIMENT DATA: October 1976 to current year, periodically.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 2,130 microsiemens May 16, 1977; minimum, 120 microsiemens November 11, 1978.

WATER TEMPERATURES: Maximum, 28.5°C June 25, 26, 1977; minimum, 0.0°C Dec. 31, 1978, Jan. 1, 1979, Jan. 1, 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 28...	1315	177	640	8.1	3.5	5.5	7.2	10.4	640	K5	70
FEB 10...	1145	1230	540	8.3	-6.0	1.5	4.5	12.0	658	K3	K3
MAY 23...	1230	1600	375	8.3	19.0	13.0	18	9.2	657	K44	K28
SEP 09...	1000	85	640	8.0	21.5	17.5	70	6.4	650	2400	510

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HCO3)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L - CACO3)
NOV 28...	240	4.7	60	21	39	26	1.1	5.2	280	225
FEB 10...	230	4.7	67	16	21	16	0.6	2.4	240	201
MAY 23...	170	3.5	50	12	14	15	0.5	2.2	190	152
SEP 09...	240	4.7	62	20	43	28	1.3	5.9	230	183

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
NOV 28...	26	53	0.2	9.3	344	351	0.47	164	1.2	0.11
FEB 10...	33	31	0.1	7.7	282	299	0.41	993	0.44	0.11
MAY 23...	19	17	0.2	9.0	213	124	0.17	536	0.37	0.06
SEP 09...	27	60	0.2	12	385	343	0.46	79.1	0.8	0.21

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04)
NOV 28...	0.14	0.6	0.6	0.6	2.7	0.70	--	0.64	0.59	1.8
FEB 10...	0.14	0.5	0.5	0.5	2.2	0.15	--	0.11	0.11	0.34
MAY 23...	0.08	0.5	0.5	0.5	2.2	0.21	0.64	0.12	0.09	0.28
SEP 09...	0.27	0.9	0.9	0.9	4.0	0.64	2.0	0.63	0.55	1.7

K Results based on colony count outside acceptable range (non-ideal colony count).

WEBER RIVER BASIN

271

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV 28...	1315	20	1	97.00	<0.50	<1	2	<3.00	4	8.00	<1
FEB 10...	1145	<10	<1	95.00	<0.50	<1	<1	<3.00	2	6.00	1
MAY 23...	1230	20	<1	83.00	<0.50	<1	<1	<3.00	1	10	3
SEP 09...	1000	400	3	120	<0.50	1	1	<3.00	4	420	7

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 28...	40	58	<0.1	<10	4	<1	<1	270	<6.0	20
FEB 10...	10	21	<0.1	<10	5	1	<1	250	<6.0	10
MAY 23...	10	13	<0.1	<10	3	<1	<1	180	<6.0	30
SEP 09...	40	150	<0.1	<10	1	<1	<1	280	<6.0	5.00

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
NOV 28...	1315	177	5.5	64	10	4.8
FEB 10...	1145	1230	1.5	61	36	120
MAY 23...	1230	1600	13.0	67	89	384
SEP 09...	1000	85	17.5	87	31	7.1

JORDAN RIVER BASIN

10146400 CURRANT CREEK NEAR MONA, UT

LOCATION.--Lat 39°48'09", long 111°51'44", in NE1/4SW1/4NW1/4, sec.6, T.12 S., R.1 E., Juab County, Hydrologic Unit 16020201, on left bank 20 ft upstream from old bridge crossing, 300 ft downstream from Burrleston ponds, 0.5 mi upstream from Mount Nebo Reservoir, 2 mi southwest of Mona.

DRAINAGE AREA.--225 mi².

PERIOD OF RECORD.--June 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,890 ft from topographic map. Prior to June 10, 1985, at same site, different datum.

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

AVERAGE DISCHARGE.--7 years, 51.5 ft³/s, 37,310 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 595 ft³/s May 14, 1984, gage height, 6.30 ft; minimum, 3.4 ft³/s Aug. 1-4, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 350 ft³/s Apr. 10; minimum daily, 16 ft³/s many days during June - August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	72	83	78	e44	96	e200	e79	e24	19	17	17
2	77	69	77	58	e52	123	e210	e77	e23	19	16	17
3	79	69	70	53	e60	111	e220	e74	e22	18	16	18
4	62	67	67	51	e56	94	e220	e71	e21	17	17	18
5	56	67	60	53	e48	86	e240	e68	e21	17	17	18
6	53	65	59	58	e54	98	e255	e65	e20	17	17	18
7	53	63	64	70	e60	102	e275	e63	e19	17	17	18
8	51	76	71	93	e66	97	e300	e61	e18	16	16	18
9	52	88	85	94	e62	122	e325	e59	e18	17	16	18
10	51	74	83	89	e58	180	e350	e57	e17	17	16	18
11	48	75	86	82	e64	246	e300	e55	18	16	16	20
12	82	75	93	67	69	223	e270	e52	19	17	16	24
13	72	71	71	56	75	e190	e240	e50	19	17	16	20
14	70	69	49	43	79	e150	e220	e48	18	17	16	19
15	72	69	50	45	83	e160	e200	e46	17	17	16	18
16	79	73	56	51	84	e170	e190	e44	17	16	16	18
17	95	73	58	51	81	e180	e180	e43	17	19	16	18
18	96	68	67	51	81	e190	e170	e41	17	30	17	18
19	80	68	73	56	86	e200	e160	e40	17	22	17	25
20	81	66	e70	63	117	e210	e150	e38	17	21	17	23
21	89	70	e60	66	109	e210	e140	e37	16	30	17	21
22	79	70	e50	e60	95	e200	e130	e35	16	39	17	21
23	74	71	e45	e57	89	e210	e120	e34	16	32	17	20
24	74	74	e40	e55	92	e220	e110	e33	17	34	17	21
25	75	109	e45	e53	97	e230	e100	e31	41	27	17	21
26	72	87	e50	e56	93	e230	e96	e30	43	24	17	21
27	81	64	74	e58	85	e220	e93	e29	27	22	17	21
28	86	81	121	e60	80	e210	e89	e28	22	21	17	21
29	79	92	129	e62	---	e200	e86	e27	20	20	17	21
30	75	87	106	e56	---	e190	e82	e26	20	19	17	22
31	76	---	93	e50	---	e195	---	e25	---	18	17	---
TOTAL	2223	2222	2205	1895	2119	5343	5721	1466	617	652	515	591
MEAN	71.7	74.1	71.1	61.1	75.7	172	191	47.3	20.6	21.0	16.6	19.7
MAX	96	109	129	94	117	246	350	79	43	39	17	25
MIN	48	63	40	43	44	86	82	25	16	16	16	17
ACFT	4410	4410	4370	3760	4200	10600	11350	2910	1220	1290	1020	1170
CAL YR 1984	TOTAL	36884	MEAN	101	MAX	566	MIN	25	ACFT	73160		
WTR YR 1985	TOTAL	25569	MEAN	70.1	MAX	350	MIN	16	ACFT	50720		

e Estimated.

JORDAN RIVER BASIN

273

10148200 TIE FORK NEAR SOLDIER SUMMIT, UT

LOCATION.--39°57'00", long 111°12'58", in NE1/4NE1/4SW1/4 sec.14, T.10 S., R.6 E., Utah County, Hydrologic Unit 16020202, on right bank 230 ft upstream from mouth and U.S. Highway 6-50, 250 ft downstream from Denver & Rio Grande Western Railroad, 7.4 mi west of Soldier Summit, and 15.2 mi east of Thistle..

DRAINAGE AREA.--19.4 mi².

PERIOD OF RECORD.--October 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 6,120 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No diversion.

AVERAGE DISCHARGE.--22 years, 6.28 ft³/s, 4,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1,200 ft³/s Aug. 21, 1983, result of instantaneous removal of upstream blockage, gage height, about 7.85 ft from high-water mark, from rating curve extended above 26 ft³/s on basis of slope-area measurement; minimum, 0.15 ft³/s Aug. 19, 20, 1983, result of temporary blockage upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 19	2100	*39	2.51	July 11	2100	16	1.95

Daily discharge on Apr. 20, 21 are equal to maximum discharge.

Minimum daily, 3.2 ft³/s Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	5.4	e4.8	e4.0	e3.2	4.1	12	31	29	12	9.1	6.3
2	8.1	5.4	e4.5	e3.8	e3.5	4.1	12	31	29	12	9.0	6.3
3	7.6	5.5	e4.4	e3.6	e3.7	4.2	12	32	29	12	8.9	6.3
4	6.3	5.4	e4.3	e3.7	3.9	e3.7	14	32	27	12	8.7	6.2
5	6.2	e5.4	e4.2	e3.8	e3.7	e4.1	15	32	25	12	8.5	6.2
6	6.3	e5.4	e4.2	e3.9	3.6	4.3	15	33	24	12	8.5	6.0
7	6.3	e5.4	e4.4	e4.0	e3.5	4.3	15	33	24	12	8.2	6.1
8	6.3	e5.5	e4.6	e4.5	3.5	4.3	17	33	23	12	8.1	6.0
9	6.3	e6.0	e4.8	e4.2	3.9	4.4	21	33	21	12	8.1	5.9
10	6.2	e5.8	e4.9	e4.0	3.7	4.6	22	35	20	12	8.1	5.5
11	6.1	e5.4	e5.0	e4.0	e3.6	e4.9	25	36	20	12	8.2	5.7
12	6.5	e5.2	e4.8	e3.7	3.8	e5.4	27	34	20	12	8.2	5.7
13	6.1	e5.0	e4.5	e3.6	4.0	e5.0	28	34	19	11	8.2	5.5
14	6.2	e5.1	e3.8	e3.8	4.0	e5.3	30	33	18	11	8.2	5.4
15	6.2	e5.2	e4.0	e3.9	4.2	e5.6	32	32	19	11	8.1	5.3
16	6.1	e5.2	e4.3	e4.1	4.2	e6.0	34	32	18	11	7.9	5.3
17	6.2	e5.1	e4.3	e4.2	4.2	e6.4	36	31	18	11	8.0	5.2
18	6.0	e5.0	e4.5	e4.3	4.1	6.7	37	30	17	11	7.9	5.3
19	6.1	e5.0	e4.8	e4.5	4.2	7.4	38	30	17	11	7.8	5.6
20	6.1	e5.0	e5.0	e4.3	4.2	7.7	39	30	16	11	7.7	5.4
21	6.0	e5.0	e4.7	e4.2	4.0	8.1	39	30	16	11	7.6	5.4
22	5.6	e5.0	e4.3	e4.1	4.0	8.3	38	30	15	11	7.5	5.4
23	5.2	e5.0	e4.0	e4.0	4.2	8.8	36	29	15	11	7.3	5.3
24	5.3	e5.0	e4.0	e3.9	4.2	9.4	35	28	15	9.9	7.3	5.2
25	5.4	e5.2	e3.8	e3.8	4.0	9.9	34	28	16	9.9	7.1	5.1
26	5.4	e5.0	e4.0	4.3	3.9	10	34	28	15	9.8	7.1	5.1
27	6.2	e4.3	e4.2	4.4	4.1	11	33	28	14	9.8	7.0	5.0
28	5.9	e4.8	e4.5	e4.4	4.0	11	32	27	13	10	6.9	5.0
29	5.7	e5.0	e4.2	4.5	---	11	31	27	13	9.9	6.8	5.0
30	5.5	e5.0	e4.0	e4.5	---	11	31	27	12	9.5	6.4	5.0
31	5.6	---	e4.2	e3.5	---	12	---	27	---	9.4	6.3	---
TOTAL	189.8	155.7	136.0	125.5	109.1	213.0	824	956	577	343.2	242.7	166.7
MEAN	6.12	5.19	4.39	4.05	3.90	6.87	27.5	30.8	19.2	11.1	7.83	5.56
MAX	8.1	6.0	5.0	4.5	4.2	12	39	36	29	12	9.1	6.3
MIN	5.2	4.3	3.8	3.5	3.2	3.7	12	27	12	9.4	6.3	5.0
ACFT	376	309	270	249	216	422	1630	1900	1140	681	481	331

CAL YR 1984	TOTAL	5183.5	MEAN	14.2	MAX	76	MIN	3.7	ACFT	10280
WTR YR 1985	TOTAL	4038.7	MEAN	11.1	MAX	39	MIN	3.2	ACFT	8010

e Estimated.

JORDAN RIVER BASIN

10148510 SPANISH FORK BELOW HALLS FALLS NEAR SPANISH FORK, UT

LOCATION.--Lat 40°00'34", long 111°29'42", in SE1/4SW1/4SW1/4 sec.21, T.9 S., R.4 E., Utah County, Hydrologic Unit 16020202, on right bank 1.0 mi downstream from Thistle slide, 1.2 mi upstream from Diamond Fork and 12 mi southeast of Spanish Fork.

DRAINAGE AREA.--495 mi² (approximately).

PERIOD OF RECORD.--April 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,000 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow affected by lake formed by mudslide, Apr. 14, 1983, resultant construction and control of drain tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,420 ft³/s May 15, 1984; minimum daily, 0.80 ft³/s Apr. 17, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 826 ft³/s May 10, gage height, 77.05 ft; minimum observed, 2.5 ft³/s Feb. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	e133	e111	94	e38	e53	176	507	284	140	111	83
2	158	e104	113	73	e42	e57	197	563	272	134	108	85
3	129	120	e91	e61	e55	e56	238	640	263	133	106	85
4	116	110	e88	e81	e50	e49	251	678	254	131	103	83
5	111	e114	e84	e76	e46	e52	246	682	246	131	97	81
6	110	e128	e82	110	e55	e54	272	674	235	127	92	79
7	108	e142	82	e111	e55	e53	308	662	224	124	91	80
8	106	e89	91	e116	e59	e53	359	655	214	118	91	80
9	111	e96	98	e111	e68	e53	434	640	206	111	88	81
10	e107	113	e107	e81	e56	e59	451	710	204	106	88	80
11	e104	118	e117	e86	e45	e88	468	674	197	108	86	87
12	e131	e129	e97	85	e55	e95	489	595	192	110	86	98
13	136	e117	e92	68	e60	e73	489	535	185	108	87	86
14	116	e128	e87	e61	e57	e73	500	500	180	105	87	86
15	e99	e110	e82	e61	e61	e93	528	489	180	105	88	85
16	e124	e125	100	e66	e59	e134	549	465	176	102	88	85
17	e109	e100	88	e61	e57	e176	566	458	171	127	88	83
18	e135	133	91	e64	e52	e215	570	454	167	131	86	83
19	e128	e107	100	e59	e58	e269	570	451	165	124	81	90
20	e143	103	102	65	e65	216	545	454	163	129	79	90
21	129	108	97	e88	e58	197	507	444	160	144	83	88
22	e108	108	82	e63	e65	158	482	418	154	138	83	88
23	e131	e104	79	e59	e51	156	444	403	150	148	83	86
24	e131	e124	83	e50	e51	171	430	392	152	134	85	87
25	e127	133	79	e51	e54	187	426	384	199	122	86	87
26	e133	e106	85	e63	e49	176	410	366	176	116	86	86
27	116	e91	100	e67	e55	167	407	348	163	115	87	86
28	111	e95	110	e49	e48	163	407	328	158	116	85	85
29	e103	e92	105	e62	---	158	418	305	156	127	83	85
30	e130	e108	98	e60	---	144	454	290	148	118	82	86
31	e109	---	98	e46	---	163	---	290	---	115	82	---
TOTAL	3729	3388	2919	2248	1524	3811	12591	15454	5794	3797	2756	2554
MEAN	120	113	94.2	72.5	54.4	123	420	499	193	122	88.9	85.1
MAX	158	142	117	116	68	269	570	710	284	148	111	98
MIN	99	89	79	46	38	49	176	290	148	102	79	79
ACFT	7400	6720	5790	4460	3020	7560	24970	30650	11490	7530	5470	5070
CAL YR 1984	TOTAL		119032	MEAN	325	MAX	2420	MIN	50	ACFT	236100	
WTR YR 1985	TOTAL		60565	MEAN	166	MAX	710	MIN	38	ACFT	120100	

e Estimated.

JORDAN RIVER BASIN

275

10150500 SPANISH FORK AT CASTILLA, UT

LOCATION.--Lat 40°02'59", long 111°32'50", in SE1/4NE1/4NW1/4 sec.12, T.9 S., R.3 E., Utah County, Hydrologic Unit 16020202, on right bank 600 ft upstream from outlet of Cold Springs, 0.9 mi upstream from diversion dam of Bureau of Reclamation, 1.5 mi northwest of Castilla, and 2.8 mi downstream from Diamond Fork.

DRAINAGE AREA.--652 mi².

PERIOD OF RECORD.--September 1889 to December 1890, April 1903 to November 1917, May 1919 to September 1925, January 1933 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Spanish Fork" 1889-90, 1903-08.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,870 ft from topographic map. Prior to May 3, 1919, nonrecording gages at various sites 1.5 mi to 2.5 mi downstream from present site at different datums below power canal, which began diverting late in 1908. May 3, 1919, to Apr. 14, 1920, nonrecording gage, Apr. 15, 1920, to Sept. 30, 1925, and Jan. 1, 1933, to Apr. 16, 1940, water-stage recorder, at present site upstream from power canal at datum 2.00 ft lower.

REMARKS.--Records poor. Several small diversions for irrigation above station. Flow since June 1915 includes water diverted from Strawberry Reservoir, capacity, 270,000 acre-ft, in Colorado River Basin via Strawberry Tunnel for irrigation in vicinity of Spanish Fork. Flow affected by mudslide and draining of resultant lake about 5 mi upstream Apr. 14 to Sept. 30, 1983.

AVERAGE DISCHARGE.--13 years (1890, 1903-14), 172 ft³/s; 61 years (1914-17, 1919-25, 1933-85), 230 ft³/s, 166,600 acre-ft/yr; includes transmountain diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft³/s May 15, 1984, gage height, 11.53 ft; minimum, 5.8 ft³/s Dec. 18, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,250 ft³/s May 10, gage height, 6.32 ft; minimum daily, 77 ft³/s Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	e202	e153	e133	77	92	e322	e812	e571	e320	e214	e319
2	236	e172	152	e112	81	96	e332	e895	e484	e393	e341	e321
3	224	185	e140	e100	94	94	e395	996	e452	e447	e473	e292
4	201	e150	e130	e120	89	87	e419	1050	e434	e496	e488	e309
5	194	e182	e125	e115	85	90	e422	1060	e421	e529	e584	e291
6	190	e196	e125	e145	94	92	e460	1020	e433	e560	e614	e268
7	188	210	e125	e150	94	91	e518	985	e485	e561	e638	e266
8	187	160	e135	e155	98	92	e594	986	e545	e540	e613	e266
9	190	167	e145	e150	107	93	e739	958	e584	e527	e630	e267
10	e186	e176	e150	e120	95	108	e823	1060	e609	e517	e620	e269
11	e184	e190	e160	e125	84	149	e860	1020	e655	e527	e578	e285
12	e212	e195	e140	e124	94	153	e893	886	e754	e501	e608	e250
13	216	e180	e135	e107	99	125	e877	788	e882	e502	e655	e193
14	192	e190	e130	e100	96	127	e889	737	e954	e440	e673	e187
15	e181	e164	e125	e100	100	155	e921	727	e947	e358	e656	e172
16	e203	e178	e143	e105	98	206	e954	700	e906	e341	e605	e163
17	e184	e150	e131	e100	96	255	e975	694	e882	e459	e595	e176
18	e209	172	e134	103	91	303	e963	692	e847	e434	e558	e177
19	e201	e150	e143	98	97	367	e960	689	e820	e387	e508	e191
20	215	150	e145	90	104	e350	e891	687	e793	e367	e491	e178
21	197	152	e140	127	97	e391	e814	680	e801	e315	e495	168
22	e177	152	e125	102	104	e352	e771	643	e782	e286	e530	161
23	e199	e148	e122	98	90	e352	e713	615	e789	e235	e530	148
24	e199	e169	e126	89	90	e365	e687	601	e784	e199	e572	149
25	e195	171	e121	90	93	e382	e683	595	e753	e186	e503	151
26	e201	e151	e126	102	88	e371	e655	575	e489	e180	e471	154
27	193	e130	e140	107	94	e346	e640	549	e369	e180	e450	157
28	179	e140	e149	88	87	e329	e643	e528	e330	e185	e452	157
29	e173	e135	e144	101	---	e316	e670	e505	e329	e209	e398	152
30	e199	e149	e137	99	---	e286	e735	e516	e315	e199	e381	153
31	e179	---	e137	85	---	e310	---	e561	---	e188	e354	---
TOTAL	6078	5016	4233	3440	2616	6925	21218	23810	19199	11568	16278	6390
MEAN	196	167	137	111	93.4	223	707	768	640	373	525	213
MAX	236	210	160	155	107	391	975	1060	954	561	673	321
MIN	173	130	121	85	77	87	322	505	315	180	214	148
ACFT	12060	9950	8400	6820	5190	13740	42090	47230	38080	22950	32290	12670
CAL YR 1984	TOTAL 182298		MEAN 498		MAX 3700		MIN 115		ACFT 361600			
WTR YR 1985	TOTAL 126771		MEAN 347		MAX 1060		MIN 77		ACFT 251500			

e Estimated.

10152000 SPANISH FORK NEAR LAKESHORE, UT

LOCATION.--Lat 40°09'30", long 111°43'50", in SE1/4SE1/4SE1/4 sec.32, T.7 S., R.2 E., Utah County, Hydrologic Unit 16020202, on left bank 1.1 mi upstream from mouth and 2.5 mi north of Lake Shore.

DRAINAGE AREA.--675 mi².

PERIOD OF RECORD.--December 1903 to September 1907, March 1909 to December 1919, May 1920 to September 1925, January 1938 to current year. Published as "at Lake Shore" 1909, 1913-25.

REVISED RECORDS.--WSP 1314: 1904. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft from topographic map. Prior to Jan. 23, 1938, nonrecording gages at several sites about 3 mi upstream at various datums. Jan. 23, 1938 to Mar. 23, 1953, water-stage recorder at present site at different datums. Mar. 24, 1953 to Sept. 15, 1957, water-stage recorder at datum 4.0 ft higher. Apr. 25, 1984 at present site, different datum.

REMARKS.--Records poor. Flow regulated by many diversions for irrigation and hydroelectric powerplant. During latter part of irrigation season, only wasted and return waters pass gage. Station is below all diversions.

AVERAGE DISCHARGE.--65 years (water years 1905-07, 1910-18, 1921-25, 1939-85), 99.6 ft³/s, 72,160 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,320 ft³/s May 15, 1984, gage height, 11.39 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 640 ft³/s May 13, 15; minimum daily discharge, 24 ft³/s Aug. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e274	465	372	336	e100	e96	e280	e440	e150	e39	70	86
2	e320	459	386	309	e105	e99	e290	e430	e135	e34	69	108
3	e270	537	355	282	e110	e100	e310	e425	e120	e32	74	116
4	e260	467	336	285	e110	e95	e330	e430	e105	e30	78	105
5	e255	416	339	276	e105	e90	e360	e430	e95	e29	71	105
6	e250	467	348	316	e100	e88	e385	e445	e80	e29	58	77
7	e250	465	364	300	e105	e89	e415	e470	e72	e29	45	81
8	e250	483	376	298	e110	e90	e420	e500	e67	e29	27	93
9	e248	436	376	300	e110	e90	e420	e550	e64	e30	27	112
10	e248	449	362	316	e105	e95	e420	e590	e60	e32	26	102
11	e248	483	362	e302	e95	e98	e425	e610	e57	e38	39	99
12	e260	418	350	e246	e100	e98	e430	e630	e55	45	41	157
13	e280	486	348	e220	e105	e100	e445	e640	e55	65	44	105
14	e310	449	339	e220	e105	e100	e460	e640	e56	78	32	74
15	e290	398	355	e215	e105	e115	e475	e610	e57	110	42	86
16	e270	421	350	e210	e108	e130	e500	e580	e58	99	39	86
17	e280	408	341	e205	e105	e160	e520	e560	e61	127	24	86
18	e300	454	355	e205	e98	e200	e550	e540	e67	193	45	85
19	e280	421	348	e205	e107	e240	e580	e510	e72	166	62	106
20	e315	426	343	e205	e110	e285	e570	e490	e78	166	71	111
21	e340	454	339	e220	e108	e320	e550	e470	e86	206	62	102
22	e300	449	325	e245	e110	e310	e530	e450	e90	171	71	128
23	e260	396	248	e230	e100	e300	e500	e430	e90	142	77	100
24	e311	404	272	e215	e95	e290	e490	e410	e85	175	79	81
25	343	454	224	e205	e95	e285	e490	e390	e75	125	88	86
26	398	369	360	e220	e94	e270	e480	e380	e67	102	99	96
27	436	327	350	e235	e98	e260	e480	e360	e60	92	98	88
28	434	364	367	e220	e95	e260	e470	e340	e52	114	105	73
29	426	362	381	e170	---	e260	e455	e300	e47	135	90	60
30	449	357	376	e140	---	e260	e440	e190	e42	104	86	70
31	478	---	348	e115	---	e270	---	e170	---	95	85	---
TOTAL	9633	12944	10695	7466	2893	5543	13470	14410	2258	2861	1924	2864
MEAN	311	431	345	241	103	179	449	465	75.3	92.3	62.1	95.5
MAX	478	537	386	336	110	320	580	640	150	206	105	157
MIN	248	327	224	115	94	88	280	170	42	29	24	60
ACFT	19110	25670	21210	14810	5740	10990	26720	28580	4480	5670	3820	5680
CAL YR 1984	TOTAL	165834	MEAN	453	MAX	3190	MIN	36	ACFT	328900		
WTR YR 1985	TOTAL	86961	MEAN	238	MAX	640	MIN	24	ACFT	172500		

e Estimated.

JORDAN RIVER BASIN

277

10153800 NORTH FORK PROVO RIVER NEAR KAMAS, UT

LOCATION.--Lat 40°35'48", long 111°05'48", in NE1/4SW1/4SE1/4 sec.36, T.2 S., R.7 E., Summit County, Hydrologic Unit 16020203, on right bank 500 ft upstream from bridge on State Highway 150, 1,500 ft upstream from mouth, and 9.5 mi southeast of Kamas.

DRAINAGE AREA.--24.4 mi².

PERIOD OF RECORD.--August 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,480 ft from topographic map.

REMARKS.--Records poor. Slight regulation from several small reservoirs at headwaters used for storing water for release during the summer and fall. No diversions above station.

AVERAGE DISCHARGE.--22 years, 40.9 ft³/s, 29,630 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 705 ft³/s July 4, 1975, gage height, 3.00 ft; minimum recorded, 1.9 ft³/s several days during winter of 1964-65.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 4	1900	285	1.95	June 7	0500	288	1.95
May 27	1000	*291	*1.96				

Minimum daily, 6.4 ft³/s Feb. 1, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	15	e18	e11	e6.4	e8.0	e16	159	146	45	35	7.8
2	18	16	e16	e9.0	e7.4	e8.0	e20	182	140	43	32	8.2
3	17	17	e17	e10	e8.8	e7.9	e25	231	147	42	31	8.1
4	16	14	e15	e12	e9.0	e7.3	e25	252	165	41	30	8.1
5	15	14	e14	e12	e8.4	e8.7	e24	235	162	40	28	8.0
6	14	14	e15	11	e8.9	e8.7	e29	214	187	38	27	7.6
7	14	e16	e18	11	e8.9	e8.3	e37	231	225	37	26	7.6
8	e13	e15	e18	11	e8.9	e8.6	e79	231	208	36	25	12
9	13	e16	e17	11	e8.5	e9.4	e63	211	180	35	24	8.4
10	14	e13	e17	10	e8.5	e11	e69	200	153	51	22	7.6
11	19	e14	e17	e9.6	e7.7	e11	e79	157	141	53	22	8.8
12	16	e15	e16	e8.8	e8.1	e10	e81	142	131	56	21	12
13	15	e16	e15	e8.0	e7.8	e9.6	e86	129	123	52	19	11
14	14	e16	e14	e8.8	e7.6	e11	e97	127	113	49	19	9.5
15	14	e16	e15	e9.4	e7.7	e11	e113	125	104	47	18	8.4
16	15	e17	e14	10	e7.7	e11	e130	128	97	46	17	7.9
17	17	e15	e12	10	e7.6	e11	e139	146	88	50	16	7.2
18	16	e15	e13	10	e7.2	e12	e140	162	80	50	15	7.8
19	15	e15	e15	9.9	e7.4	e12	e140	157	74	48	13	26
20	e18	e16	15	9.9	e7.8	e13	e116	151	68	54	12	16
21	e14	e17	e15	9.8	e7.6	e13	e102	153	62	53	11	14
22	e14	e15	e15	9.9	e7.5	e12	e91	174	58	51	11	12
23	e16	e13	e16	9.9	e7.4	e14	e82	179	59	51	10	11
24	e18	e13	e16	9.4	e7.0	e14	e76	185	67	45	9.8	10
25	16	e14	e15	9.4	e7.5	e16	e72	208	60	42	9.1	9.7
26	14	e17	e16	9.4	e6.6	e15	e68	237	58	40	8.7	9.3
27	e13	e14	e17	e9.1	e7.4	e15	e66	246	55	40	8.7	9.0
28	e14	e19	e17	e8.9	e6.4	e15	e73	235	51	40	8.5	8.7
29	15	e18	e17	e9.0	---	e14	e91	204	48	41	8.2	8.0
30	18	e18	e16	e8.4	---	e13	e123	167	46	40	8.0	7.8
31	17	---	13	e7.2	---	e14	---	154	---	37	7.8	---
TOTAL	481	463	484	302.8	217.7	352.5	2352	5712	3296	1393	552.8	297.5
MEAN	15.5	15.4	15.6	9.77	7.77	11.4	78.4	184	110	44.9	17.8	9.92
MAX	19	19	18	12	9.0	16	140	252	225	56	35	26
MIN	13	13	12	7.2	6.4	7.3	16	125	46	35	7.8	7.2
ACFT	954	918	960	601	432	699	4670	11330	6540	2760	1100	590
CAL YR 1984	TOTAL	18657.8	MEAN	51.0	MAX	422	MIN	5.0	ACFT	37010		
WTR YR 1985	TOTAL	15904.3	MEAN	43.6	MAX	252	MIN	6.4	ACFT	31550		

e Estimated.

JORDAN RIVER BASIN

10154200 PROVO RIVER NEAR WOODLAND, UT

LOCATION.--Lat 40°33'28", long 111°10'05", in NE1/4NW1/4SE1/4 sec.17, T.3 S., R.7 E., Summit County, Hydrologic Unit 16020203, on right bank on south side of State Highway 35, 0.3 mi downstream from Twin Pine Bridge, 1.6 mi downstream from South Fork and 3.5 mi southeast of Woodland.

DRAINAGE AREA.--162 mi².

PERIOD OF RECORD.--August 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,950 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Records include flow of Duchesne Tunnel, transmountain diversion. Flow also affected by some small irrigation diversions above station and by storage in several small reservoirs at headwaters. Information on these is available from the Provo River Water Commissioner's Report.

AVERAGE DISCHARGE.--22 years, 224 ft³/s, 162,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,950 ft³/s May 28, 1979, gage height, 5.32 ft; minimum, 22 ft³/s Nov. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,340 ft³/s May 4, gage height, 3.83 ft; minimum, 38 ft³/s Mar. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e108	e88	91	75	56	65	86	708	736	243	118	93
2	e102	e98	80	62	61	65	107	869	683	248	115	95
3	e100	e92	89	69	70	64	132	1070	664	238	113	95
4	e94	e85	79	76	72	60	133	1190	675	207	110	95
5	e94	e89	76	79	67	65	129	1130	712	202	102	93
6	e92	e88	79	85	71	65	150	1040	709	202	98	89
7	e92	e97	91	81	71	62	192	1080	750	198	95	90
8	e92	e94	91	80	72	64	255	1140	812	193	92	80
9	e90	e88	88	79	68	66	326	1060	776	175	90	81
10	e98	e98	86	76	68	73	358	1110	699	180	88	76
11	e115	e98	87	76	67	75	385	884	608	180	88	88
12	e100	e100	87	65	71	73	399	742	538	194	87	103
13	e101	e101	85	68	68	64	422	641	485	198	83	88
14	e98	e94	73	72	66	69	480	606	454	175	79	82
15	e90	e86	90	77	67	73	555	616	415	167	78	69
16	e96	e96	90	73	67	73	613	612	368	160	75	63
17	e100	e88	80	72	66	75	655	676	344	172	73	60
18	e98	e80	87	76	62	75	662	794	320	172	87	68
19	e97	e84	85	77	64	77	662	809	298	185	87	115
20	e96	e88	85	75	68	79	550	766	279	182	87	90
21	e90	106	83	76	66	80	466	756	266	186	86	81
22	e84	91	81	75	65	75	420	791	253	190	86	76
23	e88	91	80	66	64	80	376	863	242	221	87	72
24	e88	91	83	70	63	85	353	864	249	176	85	70
25	e90	93	78	73	66	92	334	902	365	154	85	72
26	e94	87	81	74	58	89	306	1010	329	145	83	69
27	e82	76	83	73	65	86	296	1090	308	138	84	67
28	e100	95	84	72	60	83	326	1060	289	128	84	64
29	e100	93	83	72	---	84	405	1010	264	136	84	63
30	e100	92	82	67	---	79	555	924	253	137	86	61
31	e100	---	82	58	---	85	---	798	---	128	91	---
TOTAL	2969	2747	2599	2269	1849	2300	11088	27611	14143	5610	2786	2408
MEAN	95.8	91.6	83.8	73.2	66.0	74.2	370	891	471	181	89.9	80.3
MAX	115	106	91	85	72	92	662	1190	812	248	118	115
MIN	82	76	73	58	56	60	86	606	242	128	73	60
ACFT	5890	5450	5160	4500	3670	4560	21990	54770	28050	11130	5530	4780
CAL YR 1984	TOTAL	100401	MEAN	274	MAX	2040	MIN	54	ACFT	199100		
WTR YR 1985	TOTAL	78379	MEAN	215	MAX	1190	MIN	56	ACFT	155500		

e Estimated.

JORDAN RIVER BASIN

279

10155000 PROVO RIVER NEAR HAILSTONE, UT

LOCATION.--Lat 40°36'03", long 111°21'35", in SW1/4NE1/4SE1/4 sec.34, T.2 S., R.5 E., Wasatch County, Hydrologic Unit 16020203, on right bank 3 mi upstream from Ross Creek and Hailstone.

DRAINAGE AREA.--233 mi².

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,100 ft from river-profile map. Prior to Nov. 20, 1964 at datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Records include flow of Weber-Provo diversion canal and Duchesne Tunnel, a transmountain diversion. Flow also affected by irrigation diversions above station and by storage in several small reservoirs at headwaters. Information on flow of Weber-Provo diversion canal, Duchesne Tunnel, and capacities of small reservoirs--total capacity, 10,080 acre-ft--is available from Provo River Water Commissioner's Report.

AVERAGE DISCHARGE.--32 years (1954-85) 284 ft³/s, 205,800 acre-ft/yr, since completion of Duchesne Tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,020 ft³/s May 31, 1983, gage height, 8.02 ft; minimum, 11 ft³/s Aug. 20, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,520 ft³/s May 5, gage height, 7.60 ft; minimum discharge, 57 ft³/s Aug. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	120	e110	e96	e80	e94	118	804	752	218	102	72
2	136	128	e99	e93	e82	e94	164	953	689	227	99	75
3	132	137	e107	e91	e93	e93	243	1120	679	211	94	77
4	120	127	e98	e98	e95	e89	248	1310	658	173	86	81
5	118	119	e94	e100	e91	e94	228	1300	693	162	83	84
6	117	129	e98	e106	e95	e94	268	1190	676	167	79	80
7	115	123	e111	e103	e95	e92	312	1170	699	168	76	80
8	113	135	e111	e103	e95	e95	392	1210	771	160	73	79
9	113	132	e108	e103	e93	e96	497	1080	737	140	70	80
10	111	123	e106	e99	e93	e104	527	1290	660	135	68	76
11	112	142	e107	e99	e92	e105	564	1020	567	145	69	86
12	155	136	e107	e87	e96	e104	572	862	498	157	70	116
13	138	140	e105	e90	e94	e94	577	754	444	172	69	100
14	146	147	e93	e94	e92	e100	620	693	411	148	67	92
15	132	118	e110	e98	e93	e104	701	701	377	137	65	81
16	126	135	e110	e94	e93	e105	787	676	324	127	63	76
17	134	129	e101	e94	e93	e106	840	712	300	149	61	74
18	138	115	e109	e94	e89	e106	876	832	324	141	62	80
19	136	112	e106	e101	e91	e107	899	870	425	167	64	119
20	136	119	e106	e98	e96	e110	741	823	387	151	64	110
21	136	122	e105	e99	e94	e112	633	795	319	177	64	95
22	121	117	e102	e98	e93	e107	577	816	260	170	64	90
23	120	113	e100	e88	e92	e113	506	905	241	236	64	88
24	125	116	e103	e93	e89	e118	476	905	234	187	65	86
25	123	122	e99	e96	e94	e125	450	924	394	150	66	89
26	128	109	e101	e97	e85	e123	408	1010	367	132	65	86
27	136	109	e103	e96	e93	e120	384	1130	329	123	65	83
28	115	111	e105	e94	e87	e124	409	1110	299	113	65	78
29	140	113	e105	e95	---	117	485	1040	252	124	65	77
30	127	115	e104	e90	---	107	643	956	232	134	66	76
31	139	---	e103	e80	---	118	---	822	---	115	68	---
TOTAL	3962	3713	3226	2967	2568	3270	15145	29783	13998	4916	2201	2566
MEAN	128	124	104	95.7	91.7	105	505	961	467	159	71.0	85.5
MAX	155	147	111	106	96	125	899	1310	771	236	102	119
MIN	111	109	93	80	80	89	118	676	232	113	61	72
ACFT	7860	7360	6400	5890	5090	6490	30040	59070	27770	9750	4370	5090
CAL YR 1984	TOTAL	118552	MEAN	324	MAX	2520	MIN	93	ACFT	235100		
WTR YR 1985	TOTAL	88315	MEAN	242	MAX	1310	MIN	61	ACFT	175200		

e Estimated.

JORDAN RIVER BASIN

10159500 PROVO RIVER BELOW DEER CREEK DAM, UT

LOCATION.--Lat 40°24'12", long 111°31'44", in NE1/4NE1/4NE1/4 sec.7, T.5 S., R.4 E., Wasatch County, Hydrologic Unit 16020203, on right bank 200 ft upstream from Deer Creek, 1,000 ft downstream from Deer Creek Dam, and 4.1 mi northeast of Vivian Park.

DRAINAGE AREA.--547 mi².

PERIOD OF RECORD.--May 1953 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area. WDR UT-81-1: 1980.

GAGE.--Water-stage recorder. Altitude of gage is 5,270 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Deer Creek Reservoir and by small lakes at headwaters that serve as reservoirs. Small transmountain diversions from Strawberry River drain into Daniels Creek. Flow also affected by irrigation diversions above station and water diverted to Provo River by Weber-Provo diversion canal and Duchesne Tunnel, a transmountain diversion. Information is available on these stations from the Provo River Water Commissioner's Report.

AVERAGE DISCHARGE.--32 years, 374 ft³/s, 271,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,260 ft³/s June 3, 1983, gage height, 9.11 ft; no flow Feb. 2, 3, 1957, Nov. 12, 19, 1961, when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,380 ft³/s May 10, gage height, 7.07 ft; minimum daily, 76 ft³/s Mar. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	341	218	304	353	366	e265	85	767	743	393	388	387
2	372	208	307	353	366	e265	85	694	740	416	430	355
3	406	246	307	354	366	e265	86	484	671	415	459	371
4	404	311	307	355	366	e265	131	483	612	390	461	371
5	429	348	307	355	366	e265	150	476	605	379	456	353
6	453	352	310	357	e366	e265	150	477	605	419	463	326
7	488	353	334	357	e365	e265	150	508	521	438	466	337
8	489	359	357	349	e345	e265	150	716	497	440	465	337
9	471	364	356	350	e310	e265	152	919	486	439	458	299
10	464	358	357	349	e280	e265	160	965	499	432	455	297
11	466	366	340	348	e270	e265	163	1260	501	430	452	297
12	478	366	334	349	e270	e265	169	1290	508	419	435	293
13	474	366	335	352	e280	e265	e200	1270	501	414	385	297
14	464	366	335	357	e290	e265	e290	1250	466	415	410	291
15	455	366	337	354	e300	e265	e550	1020	437	413	409	256
16	468	366	337	356	e305	e265	e1100	782	458	412	410	248
17	479	366	339	360	e310	e265	1040	774	460	415	410	258
18	487	366	339	367	e310	e260	1030	765	452	412	418	248
19	496	366	340	368	e300	e250	1030	764	445	413	423	232
20	505	366	342	368	e330	e220	1040	760	444	414	440	220
21	510	366	342	368	e360	e150	1050	761	447	404	475	216
22	521	366	344	367	e360	e100	1080	761	444	380	480	220
23	528	366	344	368	e360	76	1090	761	443	360	465	214
24	536	366	345	364	e360	76	1090	732	428	374	465	213
25	546	366	346	366	e330	80	979	747	351	379	462	214
26	554	330	346	364	e330	81	852	735	344	394	427	216
27	562	303	348	365	e290	83	833	737	342	439	470	216
28	563	303	348	366	e265	83	785	737	337	460	465	214
29	552	303	349	366	---	83	782	740	339	457	477	213
30	510	303	350	366	---	83	778	740	346	444	425	211
31	343	---	350	366	---	83	---	741	---	406	427	---
TOTAL	14814	10149	10436	11137	9116	6213	17230	24616	14472	12815	13731	8220
MEAN	478	338	337	359	326	200	574	794	482	413	443	274
MAX	563	366	357	368	366	265	1100	1290	743	460	480	387
MIN	341	208	304	348	265	76	85	476	337	360	385	211
ACFT	29380	20130	20700	22090	18080	12320	34180	48830	28710	25420	27240	16300
CAL YR 1984	TOTAL	189809	MEAN	519	MAX	1920	MIN	206	ACFT	376500		
WTR YR 1985	TOTAL	152949	MEAN	419	MAX	1290	MIN	76	ACFT	303400		

e Estimated.

JORDAN RIVER BASIN

281

10163000 PROVO RIVER AT PROVO, UT

LOCATION.--Lat 40°14'16", long°41'55", in NE1/4NW1/4SE1/4 sec.3, T.7 S., R.2 E., Utah County, Hydrologic Unit 16020203, on left bank 1,300 ft downstream from bridge on State Highway 114, 2.1 mi west of Provo, and 2.1 mi upstream from mouth.

DRAINAGE AREA.--673 mi².

PERIOD OF RECORD.--May 1903 to June 1905, May 1933 to September 1934, January 1937 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "at San Pedro, Los Angeles and Salt Lake Railroad bridge, near Provo" 1903-04, and as "at Rio Grande Western Railroad bridge, near Provo" 1905.

REVISED RECORDS.--WSP 1564: 1904, 1934. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,510 ft from topographic map. May 1903 to June 1905, non-recording gages at site 0.8 mi upstream at different datums. May 1933 to September 1934, nonrecording gage at present site at different datum. January 1937 to November 1938, water-stage recorder at site 1,000 ft upstream at different datum. November 1938 to August 1957, water-stage recorder at present site at datum 2.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station is below all diversions. At time entire flow is diverted above station for irrigation. Flow regulated by Deer Creek Reservoir and small lakes at headwaters that serve as reservoirs. Small transmountain diversions from Strawberry River drain into Daniels Creek. Flow affected by Weber-Provo diversion canal and Duchesne Tunnel, a transmountain diversion. Certain diversions for industrial use which reach Provo Bay, an arm of Utah Lake, are made above station; however, part of this flow is used for irrigation.

AVERAGE DISCHARGE.--50 years, 207 ft³/s, 150,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,520 ft³/s May 6, 1952, gage height, 6.37 ft; no flow for several periods.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,430 ft³/s May 10, 11, gage height, 6.63 ft; minimum, 2.9 ft³/s Aug. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	310	338	398	435	e410	355	193	560	606	51	59	42
2	380	329	391	425	e410	371	192	532	597	38	39	31
3	402	344	390	424	e440	377	191	255	538	21	42	40
4	390	380	387	429	e440	363	199	203	429	9.2	49	54
5	399	422	384	430	e415	359	202	205	396	12	57	64
6	417	437	381	432	e440	363	207	205	361	22	36	58
7	426	442	395	435	420	361	220	196	343	45	48	52
8	443	459	439	455	409	362	234	343	266	37	51	43
9	446	465	455	480	348	362	246	675	225	37	60	34
10	445	452	455	461	338	399	264	1040	217	32	53	21
11	442	457	451	423	336	408	291	1390	208	29	52	51
12	499	459	424	419	330	425	377	1400	194	21	41	110
13	458	462	415	421	336	386	391	1360	180	39	25	104
14	445	459	405	413	345	368	397	1300	162	43	23	98
15	445	455	406	413	363	365	586	1140	99	41	18	84
16	439	454	411	411	360	356	1060	805	91	38	11	72
17	450	455	411	410	361	354	1080	785	95	57	7.0	56
18	447	456	410	434	356	357	1080	747	84	50	12	53
19	466	455	411	435	352	353	1130	718	71	99	20	137
20	466	459	411	439	402	317	1220	687	63	128	26	163
21	464	450	409	442	420	230	1330	688	56	120	47	145
22	462	445	408	440	426	195	1320	688	50	97	45	141
23	465	451	406	435	421	187	1230	683	44	129	32	138
24	465	455	402	433	424	189	1170	659	74	149	35	137
25	462	489	402	436	409	194	1070	662	204	133	34	132
26	463	455	402	435	365	197	818	632	230	124	35	128
27	480	407	414	430	357	201	757	645	150	124	27	129
28	471	401	469	437	355	199	670	626	86	128	35	120
29	460	414	462	433	---	201	631	613	70	130	45	123
30	477	411	450	441	---	190	589	562	67	105	32	123
31	430	---	441	e430	---	197	---	565	---	74	36	---
TOTAL	13714	13017	12895	13416	10788	9541	19345	21569	6256	2162.2	1132.0	2683
MEAN	442	434	416	433	385	308	645	696	209	69.7	36.5	89.4
MAX	499	489	469	480	440	425	1330	1400	606	149	60	163
MIN	310	329	381	410	330	187	191	196	44	9.2	7.0	21
ACFT	27200	25820	25580	26610	21400	18920	38370	42780	12410	4290	2250	5320
CAL YR 1984	TOTAL 175789			MEAN 480	MAX 1870	MIN 22	ACFT 348700					
WTR YR 1985	TOTAL 126518.2			MEAN 347	MAX 1400	MIN 7.0	ACFT 250900					

e Estimated.

JORDAN RIVER BASIN

10164500 AMERICAN FORK ABOVE UPPER POWERPLANT, NEAR AMERICAN FORK, UT

LOCATION.--Lat 40°26'52", long 111°40'53", in SE1/4NW1/4NE1/4 sec.26, T.4 S., R.2 E., Utah County, Hydrologic Unit 16020201, on left bank 600 ft downstream from Rock Creek, 1,000 ft upstream from intake for upper powerplant of Utah Power & Light Co., 4.0 mi upstream from mouth of canyon, and 6.7 mi northeast of American Fork.

DRAINAGE AREA.--51.1 mi².

PERIOD OF RECORD.--January 1927 to current year. Monthly discharge only January 1927 to September 1945, published in WSP 1314.

REVISED RECORDS.--WSP 1634: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft from topographic map. Prior to Sept. 8, 1965, at same site at different datum. Sept. 8, 1965 to Nov. 20, 1967, at site 300 ft upstream.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Silver Lake Flat Reservoir (constructed 1971) and Tibble Reservoir; total capacity, 1,260 acre-ft.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--58 years, 56.7 ft³/s, 41,080 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, occurred July 30, 1953, gage height, 9.20 ft, from floodmark; minimum, 1.1 ft³/s Dec. 20, 1976 (result of freezeup).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 291 ft³/s June 8; minimum daily, 18 ft³/s Feb. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	41	28	23	20	19	27	130	186	95	52	34
2	46	41	25	21	20	20	28	160	167	94	51	32
3	42	43	27	21	20	20	32	191	173	100	51	31
4	41	42	25	22	20	18	36	214	179	102	51	32
5	40	41	24	23	20	19	37	219	197	97	49	30
6	40	42	24	23	20	19	43	204	223	95	49	29
7	39	42	26	24	20	19	52	196	262	91	49	39
8	38	46	28	24	20	19	66	223	291	90	49	35
9	37	43	28	24	20	19	84	232	276	89	48	32
10	37	40	27	23	20	22	96	275	256	86	47	30
11	42	41	27	23	19	23	104	254	220	86	47	29
12	57	39	27	21	19	23	112	217	198	87	48	29
13	45	38	24	21	19	21	116	183	189	82	47	28
14	45	37	21	24	19	22	125	162	194	76	46	27
15	44	34	25	24	19	23	139	160	190	74	46	29
16	45	35	27	24	19	24	159	146	188	72	45	36
17	46	35	24	24	19	25	168	151	188	72	44	36
18	43	32	26	23	19	27	167	174	175	71	44	33
19	43	32	28	23	19	28	151	201	160	72	44	32
20	44	30	27	23	21	30	125	219	149	70	43	31
21	43	31	25	23	19	31	112	214	141	68	43	30
22	39	31	25	22	19	31	102	205	133	67	42	29
23	41	32	24	21	19	31	93	219	125	78	42	28
24	42	33	25	20	19	32	88	253	135	68	40	28
25	42	33	24	21	20	35	85	270	167	63	40	28
26	42	30	25	21	18	35	78	288	131	60	38	28
27	42	26	28	21	19	36	75	282	109	56	39	28
28	40	31	26	21	18	36	82	261	99	56	38	28
29	42	30	25	21	---	32	95	248	97	55	36	28
30	42	29	25	20	---	29	111	230	93	57	34	28
31	42	---	24	20	---	29	---	203	---	53	34	---
TOTAL	1311	1080	794	689	543	797	2788	6584	5291	2382	1376	917
MEAN	42.3	36.0	25.6	22.2	19.4	25.7	92.9	212	176	76.8	44.4	30.6
MAX	57	46	28	24	21	36	168	288	291	102	52	39
MIN	37	26	21	20	18	18	27	130	93	53	34	27
ACFT	2600	2140	1570	1370	1080	1580	5530	13060	10490	4720	2730	1820
CAL YR 1984	TOTAL	35194	MEAN	96.2	MAX	600	MIN	18	ACFT	69810		
WTR YR 1985	TOTAL	24552	MEAN	67.3	MAX	291	MIN	18	ACFT	48700		

JORDAN RIVER BASIN

283

10167000 JORDAN RIVER AT NARROWS, NEAR LEHI, UT

LOCATION.--Lat 40°26'38", long 111°55'17", in NW1/4SE1/4NW1/4 sec.26, T.4 S., R.1 W., Salt Lake County, Hydrologic Unit 16020201, at narrows 5.5 mi northwest of Lehi and 7.5 mi downstream from Utah Lake.

DRAINAGE AREA.--3,010 mi², including 255 mi² in closed basin in Cedar Valley.

PERIOD OF RECORD.--May to December 1904, July 1913 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,469.44 ft NGVD of 1929. Prior to May 16, 1920, nonrecording gage and May 16, 1920, to Sept. 30, 1934, water-stage recorder, at outlet of Utah Lake 7.5 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Figures given herein represent combined flow of Jordan River, Utah and Salt Lake Canal, and East Jordan Canal. In addition to the combined flow indicated below, 19,589 acre-ft of Utah Lake water bypassed the Jordan River narrows in the Utah Lake Distributing Company Canal. Flow may be regulated by gates and pumps at outlet of Utah Lake, pumps at Pelican Point, and diversion dam at narrows.

COOPERATION.--Records of bypassed flow provided by the Jordan River Distribution System.

AVERAGE DISCHARGE.--72 years (1913-85), 411 ft³/s, 297,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,030 ft³/s June 20, 1984; no flow at times most years when gates are closed.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1180	1310	1310	1260	1330	1300	1430	1430	1470	1160	1010	755
2	1190	1330	1330	1320	1340	1310	1440	1450	1450	1160	960	687
3	1180	1300	1330	1310	1350	1290	1440	1480	1450	1170	967	719
4	1170	1300	1320	1290	1330	1310	1430	1370	1460	1170	974	741
5	1180	1310	1320	1290	1350	1290	1420	1420	1460	1190	976	743
6	1170	1310	1320	1290	1350	1290	1390	1430	1460	1170	959	742
7	1170	1290	1320	1300	1330	1300	1410	1470	1480	1170	958	731
8	1170	1330	1330	1300	1350	1310	1430	1460	1390	1140	912	741
9	1170	1310	1330	1290	1310	1310	1440	1450	1440	1160	862	740
10	1180	1330	1340	1310	1330	1330	1470	1470	1390	1120	929	728
11	1200	1330	1330	1310	1330	1410	1460	1460	1410	1110	838	741
12	1160	1340	1310	1300	1330	1400	1460	1400	1410	1090	903	725
13	1190	1380	1210	1300	1330	1430	1500	1430	1420	1100	906	711
14	1110	1330	1280	1310	1330	1450	1500	1440	1370	1090	875	718
15	1020	1340	1350	1290	1330	1440	1530	1410	1380	1070	880	697
16	1290	1340	1340	1290	1330	1460	1570	1470	1370	1070	872	684
17	1330	1310	1350	1300	1330	1420	1560	1480	1350	1080	897	712
18	1280	1310	1330	1300	1330	1380	1580	1500	1350	1080	883	637
19	1300	1310	1320	1300	1330	1380	1480	1500	1350	1050	875	694
20	1290	1330	1300	1310	1300	1440	1470	1500	1310	1050	871	685
21	1260	1340	1310	1300	1320	1380	1510	1500	1300	1060	868	688
22	1290	1320	1310	1330	1330	1370	1520	1510	1320	1050	840	692
23	1290	1320	1330	1330	1320	1380	1520	1520	1330	1050	822	689
24	1300	1330	1320	1340	1340	1380	1530	1510	1300	1040	817	676
25	1300	1300	1320	1330	1330	1360	1490	1520	1280	1030	816	664
26	1310	1290	1320	1330	1340	1380	1400	1520	1310	1020	815	681
27	1300	1330	1320	1330	1330	1390	1460	1540	1310	1020	830	682
28	1270	1350	1310	1330	1340	1360	1470	1540	1300	1020	835	628
29	1270	1340	1340	1330	---	1180	1490	1430	1300	1020	763	679
30	1270	1340	1330	1320	---	1330	1520	1380	1270	1020	737	661
31	1300	---	1300	1320	---	1360	---	1490	---	981	737	---
TOTAL	38090	39700	40880	40560	37290	42120	44320	45480	41190	33711	27183	21071
MEAN	1229	1323	1319	1308	1332	1359	1477	1467	1373	1087	877	702
MAX	1330	1380	1350	1340	1350	1460	1580	1540	1480	1190	1010	755
MIN	1020	1290	1210	1260	1300	1180	1390	1370	1270	981	737	628
ACFT	75550	78740	81090	80450	73960	83550	87910	90210	81700	66870	55920	41790

CAL YR 1984	TOTAL	629320	MEAN	1719	MAX	3030	MIN	1020	ACFT	1248000
WTR YR 1985	TOTAL	451595	MEAN	1237	MAX	1580	MIN	628	ACFT	895700

JORDAN RIVER BASIN

10167230 JORDAN RIVER AT 9000 SOUTH, NEAR MIDVALE, UT

LOCATION.--Lat 40°35'15", long 111°54'43", in SW1/4SW1/4NE1/4 sec.2, T.3 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204 on left bank 50 ft upstream from bridge on Utah State Highway 177 (9000 South Street), 3,600 ft downstream from diversion dam at head of North Jordan Canal, and about 1 mi west of Sandy.

DRAINAGE AREA.--3,160 mi², approximately, includes 255 mi² closed basin in Cedar Valley.

PERIOD OF RECORD.--December 1979 to September 1985 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 4,289.33 ft, Utah State Department of Highway Datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated. Diversions upstream for irrigation, municipal, and industrial supplies.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,790 ft³/s June 10, 1984; minimum, 9 ft³/s July 6, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,710 ft³/s Nov. 8, gage height, 5.73 ft; minimum discharge, 340 ft³/s Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1130	1450	1520	1380	1320	1260	1430	1040	995	e770	680	387
2	1170	1480	1500	1400	1320	1280	1440	1050	984	e760	623	386
3	1180	1460	1500	1390	1310	1250	1430	1020	973	756	602	387
4	1170	1450	e1490	1380	1280	1260	1360	903	983	740	605	381
5	1170	1450	e1490	1360	1300	1270	1410	940	944	739	591	398
6	1170	1470	e1490	1360	1290	1270	1410	958	896	711	554	411
7	1170	1420	e1480	1370	1300	1260	1410	954	875	700	521	415
8	1190	1540	e1480	1390	1320	1250	1420	941	845	673	525	403
9	1190	1570	e1490	1380	1270	1260	1420	973	846	646	482	413
10	1220	1550	e1490	1390	1280	1280	1440	1090	790	605	478	410
11	1250	1540	e1490	1370	1270	1320	1440	1210	782	609	454	471
12	1300	1550	e1480	1370	1270	1360	1440	1200	784	627	471	507
13	1260	1600	e1430	1380	1270	1340	1450	1210	791	670	493	468
14	1230	1550	e1450	1390	1270	1320	1460	1250	763	673	447	454
15	1390	1530	e1470	1370	1270	1310	1470	1240	777	641	429	445
16	1470	1540	e1470	1360	1280	1310	1500	1210	757	633	433	427
17	1560	1510	1470	1360	1270	1310	1510	1200	e780	661	422	457
18	1480	1520	1450	1350	1260	1320	1470	1230	e780	666	429	494
19	1510	1520	1450	1350	1270	1300	1470	1230	e770	666	419	592
20	1470	1540	1430	1360	1270	1320	1370	1210	e760	642	409	551
21	1370	1570	1440	1360	1250	1280	1440	1210	e760	647	426	548
22	1420	1540	1430	1370	1270	1250	1350	1200	e750	676	426	544
23	1430	1520	1410	1380	1250	1280	1280	1180	e750	719	382	551
24	1430	1530	1410	1370	1270	1310	1220	1150	e760	730	379	547
25	1430	1530	1410	1370	1260	1320	1180	1130	e810	757	382	549
26	1460	1480	1410	1350	1260	1260	1030	1130	e830	753	392	541
27	1430	1540	1430	1360	1250	1360	1130	1130	e830	707	375	544
28	1460	1610	1440	1360	1250	1340	1160	1100	e820	690	395	504
29	1460	1580	1410	1350	---	1160	1120	1010	e790	699	380	535
30	1450	1570	1400	1340	---	1310	1080	894	e780	717	380	560
31	1450	---	1390	1330	---	1430	---	974	---	708	369	---
TOTAL	41470	45710	45100	42400	35750	40150	40740	34167	24755	21391	14353	14280
MEAN	1338	1524	1455	1368	1277	1295	1358	1102	825	690	463	476
MAX	1560	1610	1520	1400	1320	1430	1510	1250	995	770	680	592
MIN	1130	1420	1390	1330	1250	1160	1030	894	750	605	369	381
ACFT	82260	90670	89460	84100	70910	79640	80810	67770	49100	42430	28470	28320
CAL YR 1984	TOTAL	608385	MEAN	1662	MAX	2790	MIN	972	ACFT	1207000		
WTR YR 1985	TOTAL	400266	MEAN	1097	MAX	1610	MIN	369	ACFT	793900		

e Estimated.

JORDAN RIVER BASIN

285

10167300 JORDAN RIVER AT 5800 SOUTH, NEAR SALT LAKE CITY, UT

LOCATION.--Lat 40°38'43", long 111°55'18", in NE1/4SW1/4 sec.14, T.2 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204, at bridge at 5800 South, and 2.3 mi southwest of Murray.

DRAINAGE AREA.--3,240 mi², Includes 255 mi² closed basin in Cedar Valley.

PERIOD OF RECORD.--July 1965 to September 1968, February 1974 to March 1980 (gage heights and discharge measurements only), April 1980 to September 1985 (discontinued). (Prior to 1983 published in "Surface Water and Climatologic Data" reports for Utah.)

GAGE.--Water-stage recorder. Datum of gage is 4,257.93 ft NGVD of 1929.

REMARKS.--Records good. Flow affected by regulation at Utah Lake and Jordan Narrows. Many diversions above station for irrigation and industry.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,850 ft³/s June 8, 1984; minimum daily, 68 ft³/s Apr. 17, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,670 ft³/s Nov. 8, 28; minimum daily, 465 ft³/s Aug. 27, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1370	1550	1610	1580	e1470	1350	1350	1050	1060	842	722	484
2	1410	1570	1610	1590	e1420	1360	1350	1060	1050	824	670	490
3	1410	1580	1620	1590	e1410	1320	1340	1040	1040	805	657	484
4	1410	1560	1600	1580	e1450	1340	1290	951	1050	802	659	478
5	1400	1560	1600	1580	e1400	1350	1320	978	1030	805	652	497
6	1410	1570	1600	1570	e1410	1350	1330	996	996	e780	618	508
7	1400	1540	1600	e1570	e1410	1350	1320	996	975	e760	596	508
8	1380	1670	1610	e1570	e1410	1340	1330	982	951	e750	598	495
9	1360	1660	1620	e1560	e1400	1350	1340	989	965	e720	572	508
10	1350	1620	1620	e1560	e1400	1360	1340	1130	935	e700	577	501
11	1390	1620	1630	e1560	e1400	1390	1340	1210	925	681	548	553
12	1490	1630	1610	e1560	e1400	1440	1340	1200	928	697	542	582
13	1450	1640	1470	e1560	e1400	1410	1350	1190	928	727	565	555
14	1410	1630	1440	e1560	e1400	1390	1350	1210	905	727	562	539
15	1520	1610	1600	e1560	e1400	1380	1350	1220	912	697	553	532
16	1570	1610	1620	e1590	e1400	1380	1370	1260	905	697	553	523
17	1650	1590	1620	e1520	e1390	1390	1370	1230	889	730	539	535
18	1580	1610	1620	e1510	e1390	1390	1340	1210	876	733	542	579
19	1620	1610	1600	e1510	e1390	1360	1330	1200	883	727	526	657
20	1610	1610	1580	e1510	e1380	1380	1270	1190	873	700	517	626
21	1540	1640	1600	e1500	e1380	1350	1320	1190	820	702	501	628
22	1590	1610	1600	e1500	e1350	1350	1250	1180	811	741	497	618
23	1590	1600	1580	e1500	e1350	1360	1210	1160	824	773	480	626
24	1580	1610	1600	e1500	e1340	1370	1170	1140	830	773	471	626
25	1560	1610	1600	e1500	1320	1380	1140	1130	992	788	471	623
26	1560	1570	1600	e1500	1330	1320	1040	1130	968	782	473	621
27	1560	1610	1610	e1500	1330	1380	1120	1130	915	761	465	623
28	1570	1670	1640	e1500	1330	1370	1140	1110	931	733	482	582
29	1580	1650	1610	e1500	---	1210	e1110	1060	870	744	469	601
30	1560	1640	1620	e1490	---	1290	e1100	996	851	747	465	618
31	1560	---	1600	e1490	---	1350	---	1040	---	738	467	---
TOTAL	46440	48250	49540	47670	38860	42110	38320	34558	27888	23186	17009	16800
MEAN	1498	1608	1598	1538	1388	1358	1277	1115	930	748	549	560
MAX	1650	1670	1640	1590	1470	1440	1370	1260	1060	842	722	657
MIN	1350	1540	1440	1490	1320	1210	1040	951	811	681	465	478
ACFT	92110	95700	98260	94550	77080	83530	76010	68550	55320	45990	33740	33320
CAL YR 1984	TOTAL	662690	MEAN	1811	MAX	2850	MIN	1150	ACFT	1314000		
WTR YR 1985	TOTAL	430631	MEAN	1180	MAX	1670	MIN	465	ACFT	854200		

e Estimated.

JORDAN RIVER BASIN

10170500 SURPLUS CANAL AT SALT LAKE CITY, UT

LOCATION.--Lat 40°43'37", long 111°55'33", in SE1/4SW1/4SW1/4 sec.14, T.1 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204, near right bank on upstream side of diversion dam at head of canal, and 250 ft downstream from highway bridge over Jordan River on 2100 South Street.

PERIOD OF RECORD.--December 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,223.93 ft NGVD of 1929. Prior to Oct. 22, 1952, at site 350 ft downstream, and Oct. 22, 1952 to Sept. 30, 1966, at site 400 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by diversion structure at station. Canal was built to bypass floodwater of Jordan River around Salt Lake City residential and industrial area (see station 10170490 for records of combined flow of Jordan River and Surplus Canal). Several diversions for irrigation and waterfowl ponds below station.

AVERAGE DISCHARGE.--42 years, 349 ft³/s, 252,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,410 ft³/s June 1, 1984, gage height, 8.91 ft, present datum; no flow Jan. 21 to Feb. 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,440 ft³/s May 11; maximum gage height, 5.69 ft, result of debris on control; minimum daily, 417 ft³/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1470	1420	1550	1490	1300	1450	1680	1390	1710	1040	749	460
2	1510	1460	1520	1490	1300	1490	1670	1520	1680	947	707	546
3	1440	1540	1540	1490	1310	1500	1660	1510	1690	889	650	501
4	1370	1480	1510	1440	1300	1470	1640	1630	1620	868	673	444
5	1330	1480	1520	1390	1290	1480	1620	1690	1500	862	661	451
6	1260	1500	1510	1380	1300	1510	1700	1630	1500	829	615	472
7	1240	1450	1510	1350	1300	1500	1700	1510	1560	834	599	460
8	1250	1740	1510	1350	1320	1520	1750	1540	1740	831	607	451
9	1270	1720	1520	1350	1310	1490	1760	1550	1710	782	572	511
10	1310	1570	1520	1350	1300	1510	1810	2120	1660	695	572	565
11	1340	1580	1550	1350	1300	1550	1850	2440	1540	716	585	745
12	1980	1580	1510	1340	1300	1760	1830	2260	1440	775	505	834
13	1520	1620	1430	1340	1290	1630	1780	2080	1350	806	514	649
14	1460	1600	1310	1330	1310	1580	1820	1880	1320	810	506	626
15	1560	1550	1520	1320	1310	1570	1820	2390	1300	808	534	609
16	1540	1520	1570	1310	1320	1570	1800	2110	1260	803	551	561
17	1640	1500	1550	1330	1310	1510	1910	1980	1220	843	512	572
18	1680	1500	1540	1330	1310	1570	2060	1980	1150	854	522	693
19	1640	1510	1520	1330	1320	1550	2220	1980	1110	858	514	1020
20	1560	1500	1500	1330	1450	1540	2200	1960	1080	826	491	783
21	1500	1500	1520	1330	1460	1580	2250	2050	1010	863	481	703
22	1470	1480	1520	1350	1520	1560	2110	1970	971	904	508	716
23	1470	1460	1500	1340	1480	1600	1550	1820	980	1090	483	718
24	1480	1490	1510	1340	1490	1600	1500	1870	1080	1060	417	709
25	1430	1560	1490	1340	1470	1640	1530	1890	2040	996	426	713
26	1430	1490	1510	1330	1440	1600	1340	2030	1530	883	448	692
27	1470	1520	1500	1320	1480	1690	1380	2020	1380	828	432	697
28	1440	1590	1550	1330	1450	1680	1420	1850	1280	789	465	647
29	1440	1590	1520	1330	---	1560	1400	1710	1150	845	460	634
30	1430	1560	1540	1330	---	1570	1360	1800	1110	823	457	671
31	1460	---	1510	1310	---	1690	---	1720	---	805	437	---
TOTAL	45390	46060	46880	42040	38040	48520	52120	57880	41671	26562	16653	18853
MEAN	1464	1535	1512	1356	1359	1565	1737	1867	1389	857	537	628
MAX	1980	1740	1570	1490	1520	1760	2250	2440	2040	1090	749	1020
MIN	1240	1420	1310	1310	1290	1450	1340	1390	971	695	417	444
ACFT	90030	91360	92990	83390	75450	96240	103400	114800	82650	52690	33030	37390
CAL YR 1984	TOTAL	710670	MEAN	1942	MAX	4250	MIN	1130	ACFT	1410000		
WTR YR 1985	TOTAL	480669	MEAN	1317	MAX	2440	MIN	417	ACFT	953400		

e Estimated.

JORDAN RIVER BASIN

287

10171000 JORDAN RIVER AT SALT LAKE CITY, UT

LOCATION.--Lat 40°44'01", long 111°55'21", in SW1/4SE1/4NW1/4 sec.14, T.1 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204, on right bank at 1700 South Street and about 1000 West, Salt Lake City, 4,000 ft downstream from diversion structure at head of Surplus Canal, and 1.7 mi downstream from Mill Creek.

DRAINAGE AREA.--3,438 mi² Includes 255 mi² closed basin in Cedar Valley.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,220.08 ft NGVD of 1929. Prior to July 1, 1976 at site 3,200 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated since reconstruction in May 1952 of Surplus Canal diversion dam 4,000 ft upstream. Flow affected by regulation at Utah Lake, Deer Creek Reservoir, other storage and regulation, and importation of water from other basins. Many diversions above station for irrigation, industrial, and municipal water supplies. For records of Surplus Canal see station 10170500. For records of combined flow, see following page.

AVERAGE DISCHARGE.--42 years (1943-85), 145 ft³/s, 105,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 384 ft³/s June 3, 1944, gage height, 5.55 ft; maximum gage height, 5.75 ft June 26, 1952; no flow May 10, 24, 1952. May 21, 22, 1962, Sept. 21, 1963, May 14 to June 1, 1964, and Sept. 6, 7, 1965 entire flow diverted to Surplus Canal. Maximum daily combined discharge (Jordan River and Surplus Canal), 4,510 ft³/s June 1, 1984; minimum daily, 89 ft³/s June 23, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 372 ft³/s June 25, gage height, 4.10 ft; minimum daily, 78 ft³/s Apr. 11. Maximum daily combined discharge during year (Jordan River and Surplus Canal), 2,630 ft³/s May 11; minimum daily, 618 ft³/s Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	254	197	184	309	169	157	200	252	209	215	184
2	167	253	193	183	309	171	156	205	245	199	211	197
3	217	263	193	183	309	170	158	202	156	189	204	213
4	201	245	193	216	307	168	155	212	155	173	205	256
5	231	244	192	282	307	168	156	220	229	172	205	253
6	289	244	192	281	304	166	166	218	266	170	197	253
7	286	244	192	292	305	164	173	218	302	168	194	251
8	287	280	192	312	307	163	165	218	307	176	193	249
9	251	257	190	315	307	161	127	211	299	207	188	219
10	229	233	191	316	306	163	91	237	292	231	186	186
11	241	231	195	314	306	168	78	194	277	229	188	257
12	280	233	193	312	305	190	99	204	266	233	203	237
13	241	234	191	312	303	166	178	196	259	235	231	264
14	236	228	183	312	303	157	178	189	254	234	232	260
15	240	219	186	309	303	154	178	179	250	237	235	259
16	238	210	188	308	304	154	178	172	249	240	240	253
17	244	205	188	309	303	154	199	210	243	240	221	228
18	290	204	188	308	302	158	189	207	237	243	214	257
19	298	204	187	307	304	157	170	203	230	242	222	285
20	284	201	187	307	272	158	165	203	225	241	224	255
21	283	199	187	307	231	160	206	194	219	239	204	265
22	276	198	187	308	231	158	174	185	214	238	201	262
23	267	197	186	306	226	158	180	200	215	252	209	260
24	267	198	186	306	226	159	215	199	236	249	202	257
25	259	208	187	307	226	160	181	199	320	240	197	256
26	262	199	186	307	174	161	172	204	257	230	195	254
27	275	197	186	308	127	161	172	204	246	222	192	252
28	258	199	189	309	168	161	173	228	236	216	192	245
29	258	201	188	309	---	158	194	248	222	223	191	241
30	257	197	187	309	---	151	199	258	218	222	187	243
31	264	---	187	309	---	163	---	250	---	220	181	---
TOTAL	7847	6679	5867	9047	7684	5029	4982	6467	7376	6819	6359	7351
MEAN	253	223	189	292	274	162	166	209	246	220	205	245
MAX	298	280	197	316	309	190	215	258	320	252	240	285
MIN	167	197	183	183	127	151	78	172	155	168	181	184
ACFT	15560	13250	11640	17940	15240	9980	9880	12830	14630	13530	12610	14580
CAL YR 1984	TOTAL	66189	MEAN	181	MAX	298	MIN	26	ACFT	131300		
WTR YR 1985	TOTAL	81507	MEAN	223	MAX	320	MIN	78	ACFT	161700		

e Estimated.

JORDAN RIVER BASIN

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1974 to current year.

SPECIFIC CONDUCTANCE: October 1974 to September 1978, October 1980 to September 1981, once daily.

WATER TEMPERATURES: April 1975 to September 1978, October 1980 to September 1981, once daily.

SEDIMENT DATA: October 1976 to current year, periodically.

INSTRUMENTATION.--Specific conductance recorder October 1974 to September 1981; temperature recorder April 1975 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 2,330 microsiemens Mar. 29, 1977; minimum, 536 microsiemens June 25, 1978.

WATER TEMPERATURES: Maximum, 28.0°C Aug. 29, 30, 1975; minimum, 0.5°C Jan. 2, 3, 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI KF AGAR (COLS. PER 100 ML)
NOV 19...	1315	194	1300	8.2	8.0	6.5	64	10.0	650	--	--
FEB 09...	1200	305	1270	8.1	1.0	3.5	34	10.7	647	K10	K48
APR 04...	1200	155	1220	8.3	10.0	9.5	44	8.5	651	K3100	590
MAY 21...	1000	199	1000	8.2	15.0	14.0	42	7.8	655	270	180
JUL 08...	1020	186	1310	7.7	27.5	21.5	32	5.9	659	5100	1500
SEP 30...	1045	321	1400	8.1	10.5	11.0	47	8.6	660	150	150

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HC03)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L - CAC03)
NOV 19...	370	7.4	73	46	120	40	2.8	11	300	248
FEB 09...	380	7.5	77	45	120	40	2.8	11	300	244
APR 04...	380	7.5	76	45	120	40	2.8	9.9	300	244
MAY 21...	310	6.2	64	36	90	38	2.3	8.0	260	212
JUL 08...	410	8.2	87	47	130	40	2.9	12	300	244
SEP 30...	400	7.9	81	47	140	42	3.1	13	310	251

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
NOV 19...	190	160	0.5	22	750	771	1.0	404	1.3	0.80
FEB 09...	190	170	0.5	22	717	784	1.1	646	1.0	0.86
APR 04...	180	160	0.5	19	758	613	0.83	257	0.89	0.67
MAY 21...	150	120	0.4	16	604	486	0.66	261	0.89	0.39
JUL 08...	210	170	0.5	22	823	682	0.93	342	1.4	0.62
SEP 30...	220	200	0.5	24	854	880	1.2	763	1.5	0.77

K Results based on colony count outside acceptable range (non-ideal colony count).

JORDAN RIVER BASIN

289

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
NOV 19...	1.0	2.0	2.00	2.0	8.9	0.65	--	0.45	0.43	1.3
FEB 09...	1.1	1.9	1.90	1.9	8.4	0.56	--	0.43	0.41	1.3
APR 04...	0.86	2.6	2.60	2.6	12	0.52	--	0.37	0.34	1.0
MAY 21...	0.5	0.8	0.8	0.8	3.5	0.53	1.6	0.30	0.23	0.71
JUL 08...	0.8	1.7	1.70	1.7	7.5	0.79	2.4	0.57	0.48	1.5
SEP 30...	0.99	2.0	2.00	2.0	8.9	0.82	2.5	0.64	0.58	1.8

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV 19...	1315	10	8	66.00	<0.50	<1	2	<3.00	4	6.00	2
APR 04...	1200	50	6	68.00	<0.50	<1	<1	<3.00	5	60	7
JUL 08...	1020	50	11	75.00	<0.50	<1	3	<3.00	4	4.00	5
SEP 30...	1045	30	12	73.00	<0.50	<1	<1	<3.00	4	20	1

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 19...	90	39	<0.1	<10	5	2	<1	900	<6.0	20
APR 04...	90	24	<0.1	<10	3	1	<1	910	<6.0	20
JUL 08...	100	17	<0.1	<10	2	2	<1	960	<6.0	10
SEP 30...	110	16	<0.1	10	<1	0.00	<1	950	<6.0	10

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE SUS- PENDED (T/DAY)
NOV 19...	1315	194	6.5	88	148	78
FEB 09...	1200	305	3.5	73	157	129
APR 04...	1200	155	9.5	82	161	67
MAY 21...	1000	199	14.0	79	134	72
JUL 08...	1020	186	21.5	61	127	64
SEP 30...	1045	321	11.0	63	127	110

JORDAN RIVER BASIN

10170490 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

Combined discharge, in cubic feet per second, of Jordan River and Surplus Canal

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1640	1670	1750	1670	1610	1620	1840	1590	1960	1250	964	644
2	1680	1710	1710	1670	1610	1660	1830	1730	1930	1150	918	743
3	1660	1800	1730	1670	1620	1670	1820	1710	1850	1080	854	714
4	1570	1730	1700	1660	1610	1640	1800	1840	1780	1040	878	700
5	1560	1720	1710	1670	1600	1650	1780	1910	1730	1030	866	704
6	1550	1740	1700	1660	1600	1680	1870	1850	1770	999	812	725
7	1530	1690	1700	1640	1610	1660	1870	1730	1860	1000	793	711
8	1540	2020	1700	1660	1630	1680	1920	1760	2050	1010	800	700
9	1520	1980	1710	1670	1620	1650	1890	1760	2010	989	760	730
10	1540	1800	1710	1670	1610	1670	1900	2360	1950	926	758	751
11	1580	1810	1750	1660	1610	1720	1930	2630	1820	945	773	1000
12	2260	1810	1700	1650	1610	1950	1930	2460	1710	1010	708	1070
13	1760	1850	1620	1650	1590	1800	1960	2280	1610	1040	745	913
14	1700	1830	1490	1640	1610	1740	2000	2070	1570	1040	738	886
15	1800	1770	1710	1630	1610	1720	2000	2570	1550	1050	769	868
16	1780	1730	1760	1620	1620	1720	1980	2280	1510	1040	791	814
17	1880	1710	1740	1640	1610	1660	2110	2190	1460	1080	733	800
18	1970	1700	1730	1640	1610	1730	2250	2190	1390	1100	736	950
19	1940	1710	1710	1640	1620	1710	2390	2180	1340	1100	736	1310
20	1840	1700	1690	1640	1720	1700	2370	2160	1310	1070	715	1040
21	1780	1700	1710	1640	1690	1740	2460	2240	1230	1100	685	968
22	1750	1680	1710	1660	1750	1720	2280	2160	1190	1140	709	978
23	1740	1660	1690	1650	1710	1760	1730	2020	1200	1340	692	978
24	1750	1690	1700	1650	1720	1760	1720	2070	1320	1310	619	966
25	1690	1770	1680	1650	1700	1800	1710	2090	2360	1240	623	969
26	1690	1690	1700	1640	1610	1760	1510	2230	1790	1110	643	946
27	1750	1720	1690	1630	1610	1850	1550	2220	1630	1050	624	949
28	1700	1790	1740	1640	1620	1840	1590	2080	1520	1010	657	892
29	1700	1790	1710	1640	---	1720	1590	1960	1370	1070	651	875
30	1690	1760	1730	1640	---	1720	1560	2060	1330	1050	644	914
31	1720	---	1700	1620	---	1850	---	1970	---	1030	618	---
TOTAL	53260	52730	52780	51110	45740	53550	57140	64350	49100	33399	23012	26208
MEAN	1718	1758	1703	1649	1634	1727	1905	2076	1637	1077	742	874
MAX	2260	2020	1760	1670	1750	1950	2460	2630	2360	1340	964	1310
MIN	1520	1660	1490	1620	1590	1620	1510	1590	1190	926	618	644
ACFT	105600	104600	104700	101400	90730	106200	113300	127600	97390	66250	45640	51980
CAL YR 1984	TOTAL	776360	MEAN	2121	MAX	4510	MIN	1290	ACFT	1540000		
WTR YR 1985	TOTAL	562379	MEAN	1541	MAX	2630	MIN	618	ACFT	1115000		

JORDAN RIVER BASIN

291

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT
(Hydrologic bench mark station)

LOCATION (REVISED).--Lat 40°46'48", long 111°48'19", in NE1/4SE1/4NW1/4 sec.35, T.1 N., R.1 E., Salt Lake County, Hydrologic Unit 16020204, on right bank 0.4 mi upstream from dam forming Red Butte Reservoir, and 1.7 mi north-east of Fort Douglas.

DRAINAGE AREA.--7.25 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year. Figures of monthly discharge for January 1942 to September 1963, collected by Corps of Engineers, U.S. Army, available in files of Salt Lake City District Office, Geological Survey.

GAGE.--Water-stage recorder. Altitude of gage is 5,400 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion above station. Most of flow is collected in reservoir below station and used for water supply of Fort Douglas.

AVERAGE DISCHARGE.--22 years, 4.76 ft³/s, 3,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 105 ft³/s May 28, 1983, maximum gage height, 3.81 ft May 17, 1984; minimum, 0.23 ft³/s Dec. 22, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 11	2200	*19	*1.77	May 15	1000	15	1.54

Minimum daily discharge, 2.4 ft³/s, several days during August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	3.6	3.2	3.6	e2.5	3.6	6.2	10	8.4	4.6	3.0	2.4
2	4.1	3.5	3.1	e3.2	e2.7	3.7	6.8	10	8.2	4.6	3.0	2.5
3	3.9	3.6	3.2	3.3	e2.9	3.7	8.2	10	7.9	4.5	3.0	2.5
4	3.9	3.4	3.1	3.4	e2.9	3.4	10	10	7.8	4.4	2.9	2.5
5	3.9	3.5	3.2	3.6	e2.8	3.8	10	10	7.2	4.3	2.9	2.5
6	4.0	3.4	3.2	3.5	e2.9	3.7	11	9.7	7.0	4.1	2.9	2.4
7	3.9	3.4	3.2	3.4	e3.1	3.7	12	9.3	6.8	3.5	2.8	2.4
8	3.8	3.6	3.2	3.5	e3.1	3.7	14	9.1	6.7	3.5	2.7	2.4
9	3.6	3.5	3.2	3.4	e3.1	3.8	15	9.1	6.6	3.4	2.7	2.4
10	3.5	3.4	2.9	3.4	e2.9	4.2	17	12	6.5	3.4	2.7	2.4
11	3.8	3.4	2.6	3.3	e3.2	4.7	17	12	6.4	3.4	2.7	3.0
12	4.5	3.3	3.0	e3.3	e3.3	5.0	18	12	6.3	3.4	2.7	3.0
13	4.1	3.3	3.3	e3.2	e3.4	4.5	17	11	6.1	3.5	2.7	2.8
14	3.9	3.4	2.7	3.2	e3.4	4.8	17	11	6.0	3.4	2.8	2.6
15	3.8	3.4	3.6	3.3	e3.6	5.2	17	13	6.0	3.4	2.8	2.5
16	3.8	3.3	3.6	3.2	e3.6	5.8	18	13	5.9	3.4	2.7	2.5
17	3.9	3.2	3.2	3.2	e3.6	6.6	18	13	5.7	3.4	2.7	2.4
18	3.9	3.2	3.7	3.2	e3.4	6.7	16	12	5.6	3.4	2.7	2.6
19	3.8	3.2	3.6	3.2	3.3	7.2	16	12	5.4	3.4	2.6	3.4
20	3.7	3.2	3.6	3.2	3.8	7.6	15	12	5.3	3.4	2.6	2.9
21	3.7	3.2	3.5	3.2	3.7	7.7	13	12	5.1	3.4	2.5	2.7
22	3.6	3.1	3.5	3.2	3.7	7.2	13	11	5.0	3.5	2.5	2.7
23	3.5	3.1	3.5	3.1	3.7	6.8	12	11	4.9	3.7	2.5	2.6
24	3.5	3.2	3.5	e3.0	3.8	7.0	11	10	5.3	3.7	2.5	2.6
25	3.5	3.2	e3.4	e3.1	3.8	7.5	11	9.9	6.3	3.4	2.5	2.6
26	3.6	3.2	3.7	e3.2	3.8	7.8	10	9.6	5.5	3.3	2.5	2.6
27	3.6	3.0	3.7	e3.2	3.5	7.4	9.6	9.2	5.1	3.2	2.5	2.6
28	3.6	3.2	3.7	e3.2	3.6	6.8	9.6	9.0	4.9	3.2	2.5	2.6
29	3.6	3.2	3.7	e3.2	---	6.4	9.6	8.8	4.7	3.3	2.5	2.6
30	3.6	3.2	3.7	e3.1	---	6.0	9.9	9.1	4.7	3.2	2.4	2.6
31	3.7	---	3.7	e2.8	---	5.9	---	8.5	---	3.1	2.4	---
TOTAL	117.5	99.4	104.0	100.9	93.1	171.9	387.9	328.3	183.3	111.4	82.9	78.3
MEAN	3.79	3.31	3.35	3.25	3.32	5.55	12.9	10.6	6.11	3.59	2.67	2.61
MAX	4.5	3.6	3.7	3.6	3.8	7.8	18	13	8.4	4.6	3.0	3.4
MIN	3.5	3.0	2.6	2.8	2.5	3.4	6.2	8.5	4.7	3.1	2.4	2.4
ACFT	233	197	206	200	185	341	769	651	364	221	164	155

CAL YR 1984	TOTAL	3498.9	MEAN	9.56	MAX	76	MIN	2.5	ACFT	6940
WTR YR 1985	TOTAL	1858.9	MEAN	5.09	MAX	18	MIN	2.4	ACFT	3690

e Estimated.

JORDAN RIVER BASIN

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1964 to current year.

WATER TEMPERATURES: April 1964 to September 1978, once daily.

SEDIMENT DATA: October 1968 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 21...	1445	3.3	660	8.4	9.5	5.0	2.0	12.4	700	--	--
FEB 05...	1150	2.8	650	8.4	-11.0	0.0	1.0	12.1	618	<1	K3
APR 03...	0815	8.2	540	8.5	7.5	4.0	42	10.7	624	K2	K1
MAY 16...	1030	13	520	8.6	14.5	7.0	34	9.9	627	K2	14
JUL 29...	1215	3.4	580	8.5	23.0	14.0	0.9	8.3	625	58	310
SEP 26...	1000	2.7	650	8.5	7.5	5.5	--	10.5	630	K8	K23

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HC03)	CAR- BONATE IT-FLD (MG/L AS C03)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L - CAC03)
NOV 21...	260	5.2	68	22	11	8	0.3	0.9	300	6.1	256
FEB 05...	350	7.1	99	26	13	7	0.3	1.0	280	10	247
APR 03...	300	6.0	85	21	12	8	0.3	1.1	250	8.2	218
MAY 16...	270	5.4	75	20	11	8	0.3	1.1	250	10	220
JUL 29...	290	5.7	73	25	13	9	0.3	1.2	250	14	228
SEP 26...	--	--	--	--	--	--	--	--	280	10	244

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
NOV 21...	93	13	0.1	9.8	386	371	0.51	3.3	6	<0.1	0.02
FEB 05...	110	14	0.1	10	384	419	0.57	3.2	--	<0.1	0.04
APR 03...	72	11	0.1	11	340	213	0.29	4.7	--	<0.1	0.02
MAY 16...	55	10	0.2	11	312	184	0.25	6.5	--	<0.1	0.03
JUL 29...	82	11	0.1	11	344	351	0.48	3.2	--	<0.1	0.08
SEP 26...	--	--	--	--	--	145	0.2	1.1	--	<0.1	0.04

K Results based on colony count outside acceptable range (non-ideal colony count).

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
NOV 21...	0.03	0.2	<0.2	0.2	0.89	0.03	--	0.02	0.02	0.06
FEB 05...	0.05	0.4	0.4	0.4	1.8	0.04	--	0.02	0.02	0.06
APR 03...	0.03	0.9	0.9	0.9	4.0	0.05	--	0.02	0.03	0.09
MAY 16...	0.04	0.2	0.2	0.2	0.89	0.21	0.64	0.03	0.04	0.12
JUL 29...	0.1	0.3	0.3	0.3	1.3	0.02	0.06	0.01	0.01	0.03
SEP 26...	0.05	0.2	<0.2	0.2	0.89	0.02	0.06	0.02	0.02	0.06

DATE	TIME	ALUM- INIUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
FEB 05...	1150	<10	<1	62.00	<0.50	<1	1	<3.00	2	5.00	<1
MAY 16...	1030	<10	<1	58.00	<0.50	<1	<1	<3.00	3	10	7

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
FEB 05...	8.00	5	<0.1	10	<1	1	<1	470	<6.0	10
MAY 16...	10	3	<0.1	<10	3	<1	<1	310	<6.0	20

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, SUSP. TOTAL (PCI/L AS SR/ YT-90)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
MAY 21...	1030	3.9	<6.7	5.8	<4.2	5.3	<3.6	4.6	0.14	1.1

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE SUS- PENDED (T/DAY)
NOV 21...	1445	3.3	5.0	49	24	0.21
FEB 05...	1150	2.8	0.0	12	8	0.06
APR 03...	0815	8.2	4.0	61	339	7.5
MAY 16...	1030	13	7.0	50	367	13
JUL 29...	1215	3.4	14.0	28	56	0.51
SEP 26...	1000	2.7	5.5	23	34	0.25

JORDAN RIVER BASIN

10172550 JORDAN RIVER AT 500 NORTH, AT SALT LAKE CITY, UT

LOCATION.--Lat 40°46'49", long 111°56'16", in SW1/4NW1/4NE1/4 sec.34, T.1 N., R.1 W., Salt Lake County, Hydrologic Unit 16020204, on left bank at downstream edge of 500 North Street bridge in Salt Lake City.

DRAINAGE AREA.--3,562 mi², includes 255 mi² closed basin in Cedar Valley.

PERIOD OF RECORD.--October 1975 to current year. Records of stage 1960-75 are available from the Salt Lake District Office.

GAGE.--Water-stage recorder. Altitude of gage is 4,210 ft from topographic map.

REMARKS.--Records good except estimated daily discharges, which are fair. Flow affected by regulation at Surplus Canal, Utah Lake, Deer Creek Reservoir, other storage and regulation, and importation of water from other basins. Many diversions above station for irrigation, industrial, and municipal water supplies.

AVERAGE DISCHARGE.--10 years, 219 ft³/s, 158,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 932 ft³/s June 1, 1983, gage height, 5.24 ft; minimum recorded, 60 ft³/s Oct. 18, 1979 (discharge measurement).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 672 ft³/s Oct. 12, gage height, 4.20 ft; minimum daily, 138 ft³/s Feb. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	246	311	241	223	322	e193	270	300	414	271	266	251
2	213	307	227	221	322	e174	265	311	397	261	263	291
3	247	326	227	221	321	e192	272	319	338	252	256	271
4	234	302	226	238	322	e197	269	361	247	233	258	304
5	249	304	225	303	321	e195	267	390	318	236	256	301
6	308	300	224	303	321	e193	288	389	337	229	246	300
7	307	299	223	312	319	e190	314	400	374	229	241	300
8	308	371	223	335	319	e194	335	393	383	229	237	304
9	283	324	224	340	328	e190	353	373	377	255	243	282
10	255	294	225	338	325	e208	337	508	389	280	235	230
11	319	291	236	334	324	e217	330	391	372	283	240	367
12	429	292	233	331	328	e307	317	435	361	289	243	330
13	282	292	227	330	324	e223	370	416	347	298	273	321
14	273	292	217	330	e310	e208	371	408	337	292	273	308
15	280	277	222	329	e310	e205	369	510	325	293	273	305
16	273	262	226	329	e310	e206	346	383	328	286	280	296
17	282	237	225	329	e310	e208	382	410	329	289	267	298
18	330	238	224	329	e310	e223	381	400	313	284	263	331
19	331	237	224	327	e310	e236	393	387	302	289	263	407
20	311	238	225	327	e310	e233	372	399	294	283	270	294
21	306	239	225	326	e260	e225	393	392	294	284	250	313
22	298	241	224	332	e258	e215	402	374	284	289	243	311
23	296	239	224	325	e252	216	321	380	282	310	256	303
24	310	239	225	324	e254	219	333	363	331	308	260	303
25	312	276	224	324	e257	235	343	356	480	292	261	300
26	331	249	225	324	e210	263	338	360	338	284	245	299
27	351	238	224	327	e138	275	329	355	325	275	243	297
28	311	243	235	328	e194	283	326	351	310	272	249	291
29	309	247	225	327	---	289	319	368	286	276	245	286
30	308	232	224	328	---	273	295	418	278	276	243	286
31	333	---	222	323	---	297	---	391	---	270	236	---
TOTAL	9225	8237	7001	9717	8189	6982	10000	11991	10090	8497	7877	9080
MEAN	298	275	226	313	292	225	333	387	336	274	254	303
MAX	429	371	241	340	328	307	402	510	480	310	280	407
MIN	213	232	217	221	138	174	265	300	247	229	235	230
ACFT	18300	16340	13890	19270	16240	13850	19840	23780	20010	16850	15620	18010
CAL YR 1984	TOTAL	108625	MEAN	297	MAX	747	MIN	163	ACFT	215500		
WTR YR 1985	TOTAL	106886	MEAN	293	MAX	510	MIN	138	ACFT	212000		

e Estimated.

RUSH VALLEY

295

10172700 VERNON CREEK NEAR VERNON, UT

LOCATION.--Lat 39°58'46", long 112°22'46", In NE1/4SW1/4SW1/4 sec.2, T.10 S., R.5 W., Tooele County, Hydrologic Unit 16020304, on right bank 6.6 mi upstream from confluence with Dutch Creek forming Faust Creek and 8.3 mi southeast of Vernon.

DRAINAGE AREA.--25.0 mi².

PERIOD OF RECORD.--June 1958 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft from AMS topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--27 years, 3.77 ft³/s, 2,730 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 825 ft³/s Aug. 27, 1972, gage height, 5.70 ft, based on slope-area measurement; minimum, 0.41 ft³/s Nov. 20, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 9	1800	*54	*1.75	May 10	1300	20	1.35

Minimum, 4.9 ft³/s Feb. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	8.9	8.1	7.7	e7.7	7.7	11	12	11	8.2	7.6	8.0
2	10	9.2	8.1	7.6	7.7	7.7	11	13	11	8.2	7.9	8.1
3	9.4	9.2	8.1	7.7	7.8	7.7	14	13	11	8.1	7.9	8.1
4	9.2	9.2	8.1	7.7	7.7	7.7	16	13	11	7.9	7.9	8.1
5	9.2	9.2	8.1	7.8	e7.7	7.7	19	13	11	7.9	7.8	8.0
6	9.2	9.1	8.1	7.9	7.6	7.7	18	13	10	7.9	7.9	7.9
7	9.2	8.9	8.1	8.1	7.5	7.6	21	13	10	7.9	7.9	7.9
8	9.2	10	8.1	8.1	6.9	7.1	25	13	10	7.9	7.8	7.9
9	9.2	9.2	8.1	8.1	8.0	7.0	27	13	9.8	7.7	7.9	7.9
10	9.2	8.8	8.1	8.1	7.7	7.1	19	16	9.6	7.9	7.6	7.9
11	9.6	9.0	8.1	8.1	7.7	7.9	18	14	9.4	8.2	7.5	8.0
12	10	9.2	8.1	8.0	7.8	11	17	14	9.4	8.0	7.5	7.8
13	9.3	9.1	8.1	7.7	7.7	11	16	13	9.1	7.9	7.5	7.5
14	9.2	9.0	7.8	7.8	7.5	10	16	12	9.0	7.9	7.8	7.2
15	9.4	8.8	7.8	7.9	7.5	10	16	14	8.9	7.9	7.7	7.3
16	9.3	8.8	7.6	7.8	7.5	10	16	13	8.7	8.1	7.7	7.3
17	9.0	8.8	7.7	7.9	7.4	9.8	16	13	8.7	8.3	7.8	7.4
18	8.4	8.8	8.1	8.0	7.5	9.3	16	13	8.6	8.2	7.7	8.2
19	8.4	8.8	8.1	8.3	7.5	9.2	15	13	8.6	8.2	7.8	7.6
20	8.6	8.8	8.1	8.2	8.1	9.3	14	12	8.8	8.2	7.8	7.5
21	8.5	8.8	7.7	8.3	7.7	9.6	13	13	8.7	8.1	7.6	7.5
22	8.5	8.8	7.7	8.2	7.7	9.6	13	13	8.6	8.1	7.6	7.7
23	8.4	8.6	7.7	8.1	7.7	9.6	12	12	8.6	8.0	7.8	7.6
24	8.4	8.6	7.7	7.9	7.7	10	12	12	8.9	7.9	7.8	7.7
25	8.4	8.6	7.7	8.1	7.7	11	12	12	9.3	7.8	7.6	7.4
26	8.6	8.4	7.7	7.9	7.7	11	12	12	8.6	7.7	7.4	7.4
27	8.7	8.4	7.9	7.7	7.7	11	11	12	8.6	7.7	7.6	7.0
28	8.6	8.6	7.9	7.7	7.7	11	11	12	8.5	7.7	8.0	7.0
29	8.7	8.6	7.7	7.7	---	11	11	12	8.3	7.7	7.9	7.0
30	8.8	8.4	7.8	7.7	---	11	11	11	8.2	7.7	7.9	7.0
31	8.7	---	7.7	e7.7	---	11	---	11	---	7.7	7.9	---
TOTAL	278.9	266.6	245.7	245.5	214.1	288.3	459	395	279.9	246.6	240.1	228.9
MEAN	9.00	8.89	7.93	7.92	7.65	9.30	15.3	12.7	9.33	7.95	7.75	7.63
MAX	10	10	8.1	8.3	8.1	11	27	16	11	8.3	8.0	8.2
MIN	8.4	8.4	7.6	7.6	6.9	7.0	11	11	8.2	7.7	7.4	7.0
ACFT	553	529	487	487	425	572	910	783	555	489	476	454

CAL YR 1984	TOTAL	3927.0	MEAN	10.7	MAX	45	MIN	6.7	ACFT	7790
WTR YR 1985	TOTAL	3388.6	MEAN	9.28	MAX	27	MIN	6.9	ACFT	6720

e Estimated.

RUSH VALLEY

10172765 CLOVER CREEK ABOVE BIG HOLLOW, NEAR CLOVER, UT

LOCATION.--Lat 40°20'06", long 112°31'39", in NE1/4SE1/4SW1/4 sec.33, T.55 S., R.6 W., Tooele County, Hydrologic Unit 16020304, on left bank 60 ft south of State Highway 199 at milepost 15.9, and 4.6 mi west of St. John.

DRAINAGE AREA.--6.71 mi².

PERIOD OF RECORD.--November 1984 to September 1985.

GAGE.--Water-stage recorder and sharp crested weir. Elevation of gage is 5,660 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge during period November to September, 22 ft³/s, Apr. 9 and May 4; minimum daily, 3.0 ft³/s several days during January and February.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	4.4	3.5	3.5	3.5	4.2	11	10	8.1	7.0	5.8
2		---	4.4	3.5	3.5	3.7	5.5	15	11	8.1	7.0	5.5
3		---	4.4	3.3	3.5	3.7	8.9	21	11	8.1	7.0	5.2
4		---	4.4	3.3	3.5	3.7	10	22	11	7.7	6.7	5.5
5		---	4.4	3.0	3.5	3.7	8.9	18	12	7.4	6.7	4.9
6		---	4.4	3.0	3.5	3.7	11	16	12	7.0	6.4	4.9
7		---	4.2	3.3	3.3	3.7	14	16	13	6.4	6.4	4.6
8		---	4.2	3.3	3.0	3.7	18	17	14	7.0	6.1	4.6
9		---	4.2	3.3	3.0	3.7	22	16	13	6.7	6.1	4.6
10		---	4.2	3.3	3.3	3.7	19	17	12	6.4	5.8	4.6
11		---	4.2	3.3	3.0	3.9	17	15	11	6.1	5.8	4.6
12		---	4.2	3.5	3.0	4.4	17	12	11	6.1	5.5	4.6
13		---	3.9	3.5	3.0	4.4	14	10	11	6.1	5.8	4.6
14		---	3.9	3.3	3.0	4.4	14	10	10	6.1	5.8	4.6
15		---	3.9	3.3	3.0	4.6	18	10	10	6.1	5.8	4.9
16		---	3.9	3.3	3.3	5.5	18	9.7	9.7	5.8	5.8	4.9
17		---	3.9	3.3	3.3	6.1	17	11	9.3	6.1	5.5	4.9
18		---	3.9	3.0	3.3	5.8	14	14	8.9	6.4	5.5	5.2
19		---	3.9	3.0	3.5	6.4	14	14	8.5	6.4	5.5	5.2
20		4.6	3.9	3.0	3.7	6.7	e11	14	8.1	6.7	5.5	5.2
21		4.6	3.9	3.0	3.7	7.0	e8.0	15	8.1	6.7	5.5	5.2
22		4.6	3.9	3.3	3.5	5.8	e7.5	14	8.1	7.0	5.5	5.2
23		4.4	3.9	3.3	3.5	4.9	7.0	14	8.1	7.0	5.5	5.2
24		4.4	3.9	3.5	3.5	5.2	7.0	14	8.1	7.0	5.5	4.9
25		4.4	3.9	3.5	3.5	6.7	7.0	16	8.1	7.4	5.5	4.9
26		4.4	3.9	e3.5	3.5	5.2	6.7	16	8.1	7.4	5.5	4.6
27		4.4	3.9	e3.5	3.5	5.2	6.1	16	7.7	7.4	5.5	4.6
28		4.4	3.7	3.5	3.5	5.2	6.4	14	7.3	7.4	e5.5	4.4
29		4.4	3.7	3.5	---	4.9	7.4	14	10	7.0	e5.5	4.2
30		4.4	3.7	3.5	---	4.6	8.9	13	8.1	7.0	5.5	3.9
31		---	3.7	3.5	---	4.4	---	11	---	7.0	6.1	---
TOTAL		---	124.9	102.9	93.9	148.1	347.5	445.7	298.2	213.1	182.8	146.0
MEAN		---	4.03	3.32	3.35	4.78	11.6	14.4	9.94	6.87	5.90	4.87
MAX		---	4.4	3.5	3.7	7.0	22	22	14	8.1	7.0	5.8
MIN		---	3.7	3.0	3.0	3.5	4.2	9.7	7.3	5.8	5.5	3.9
ACFT		---	248	204	186	294	689	884	591	423	363	290

e Estimated.

TOOELE VALLEY

297

10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT

LOCATION.--Lat 40°29'47", long 112°34'25", in SW1/4NW1/4SW1/4 sec.6, T.4 S., R.6 W., Tooele County, Hydrologic Unit 16020304, on right bank 200 ft upstream from Forest Service Guard Station, 1.7 mi above Wasatch National Forest boundary, 9.2 mi southwest of Grantsville, and 14.8 mi west of Tooele.

DRAINAGE AREA.--4.19 mi². Area at crest-stage gage site, 3.26 mi².

PERIOD OF RECORD.--July 1963 to current year. Annual maximum only, July 1960 to July 1963, at crest-stage gage site.

REVISED RECORDS.--W 1983; 1982.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,360 ft from topographic map. Prior to July 23, 1963, crest-stage gage only, at site 1.4 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--22 years, 7.08 ft³/s, 5,130 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92 ft³/s June 8, 1964, gage height, 2.27 ft; minimum discharge, 1.6 ft³/s Mar. 10, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 11	0600	*24	*1.70	May 27	0200	20	1.63

Minimum discharge, 1.6 ft³/s Mar. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	6.8	6.3	5.1	4.3	3.6	5.0	7.6	12	8.8	5.1	4.0
2	7.7	6.8	6.3	5.1	4.3	3.6	5.0	8.3	11	8.4	4.0	4.3
3	7.7	6.6	6.3	5.1	4.3	3.6	4.8	10	10	8.2	2.3	4.3
4	7.6	6.2	6.2	4.7	4.3	3.6	5.2	14	9.9	7.9	2.5	4.3
5	7.3	6.0	6.2	4.7	4.3	3.6	5.6	19	9.9	7.7	2.5	4.3
6	7.3	5.9	5.9	4.7	4.3	3.8	6.3	19	9.9	7.7	2.5	4.3
7	7.3	6.2	6.0	4.7	4.3	4.0	7.3	17	11	7.7	3.0	4.3
8	7.1	6.5	6.1	4.6	4.3	4.0	8.1	17	14	7.5	2.9	4.3
9	6.9	6.4	5.9	4.3	4.3	3.8	8.7	18	14	7.3	2.7	4.3
10	6.8	6.3	5.9	4.5	4.3	3.4	11	21	14	7.3	2.9	4.3
11	7.5	6.3	5.9	4.7	4.3	3.4	14	23	16	7.1	3.0	4.8
12	7.8	6.3	5.9	4.7	4.3	3.3	14	22	17	6.8	3.0	4.8
13	7.6	6.4	5.9	4.7	4.3	3.3	14	20	16	6.5	3.1	4.7
14	7.5	6.3	5.9	4.7	4.3	3.3	15	17	15	6.3	3.0	4.7
15	7.4	6.5	5.9	4.7	4.3	3.4	14	16	16	6.3	3.0	4.6
16	7.4	6.8	5.9	4.7	4.3	3.7	14	11	14	6.3	3.0	4.3
17	7.6	6.9	5.9	4.7	4.3	4.0	15	10	14	6.2	3.3	4.4
18	7.5	7.1	5.9	4.7	4.3	4.1	16	13	13	6.1	3.3	5.1
19	7.4	7.2	5.5	4.7	4.3	4.4	17	12	13	6.1	3.3	4.6
20	7.3	7.1	5.5	4.3	4.4	4.7	17	13	13	6.1	3.4	4.3
21	7.1	6.8	5.5	4.5	4.3	4.9	16	13	13	6.2	3.3	4.3
22	6.9	6.8	5.5	4.7	4.3	5.1	14	12	12	6.0	3.3	4.3
23	6.8	6.8	5.5	4.7	4.3	5.2	12	12	12	5.9	3.5	4.3
24	6.9	6.8	5.5	4.7	4.3	5.5	10	13	12	5.9	3.6	4.3
25	6.8	6.8	5.5	4.7	4.3	5.5	9.3	14	10	5.9	3.6	4.2
26	7.0	6.8	5.5	4.7	3.8	5.5	8.8	16	10	5.9	3.7	4.2
27	6.8	6.8	5.5	4.7	3.6	5.5	7.7	19	9.9	5.9	4.0	4.5
28	6.8	6.4	5.5	4.6	3.6	5.5	7.3	19	9.4	5.9	4.0	4.6
29	6.8	6.3	5.5	4.3	---	5.5	7.3	18	8.9	5.5	4.0	4.6
30	6.8	6.3	5.4	4.3	---	5.5	7.3	15	8.8	5.3	4.3	4.7
31	6.8	---	5.3	4.3	---	5.1	---	14	---	5.1	4.2	---
TOTAL	224.0	197.2	179.5	144.3	118.6	133.4	316.7	472.9	368.7	205.8	103.3	133.0
MEAN	7.23	6.57	5.79	4.65	4.24	4.30	10.6	15.3	12.3	6.64	3.33	4.43
MAX	7.8	7.2	6.3	5.1	4.4	5.5	17	23	17	8.8	5.1	5.1
MIN	6.8	5.9	5.3	4.3	3.6	3.3	4.8	7.6	8.8	5.1	2.3	4.0
ACFT	444	391	356	286	235	265	628	938	731	408	205	264

CAL YR 1984	TOTAL	5493.9	MEAN	15.0	MAX	84	MIN	4.9	ACFT	10900
WTR YR 1985	TOTAL	2597.4	MEAN	7.12	MAX	23	MIN	2.3	ACFT	5150

TOOELE VALLEY

10172805 NORTH WILLOW CREEK NEAR GRANTSVILLE, UT

LOCATION.--Lat 40°31'58", long 112°34'19", in NW1/4NE1/4NW1/4 sec.30, T.3 S., R.6 W., Tooele County, Hydrologic Unit 16020304, on left bank 100 ft upstream from Wasatch National Forest boundary and 200 ft upstream from North Willow Irrigation Company diversion structure, and 7.4 mi southwest of Grantsville.

DRAINAGE AREA.--5.38 mi².

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,960 ft from topographic map.

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

AVERAGE DISCHARGE.--6 years, 7.47 ft³/s, 5,410 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 145 ft³/s May 16, 1984; minimum daily, 1.6 ft³/s several days in January and February 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 11	0600	*21	*3.10	No other peak greater than base discharge.			

Minimum daily discharge, 2.2 ft³/s several days in February.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	5.4	5.2	3.7	2.8	2.3	3.3	e7.2	8.8	4.6	3.0	2.3
2	4.5	5.4	5.1	3.7	2.8	2.3	3.5	e7.6	8.3	4.5	3.0	2.4
3	4.6	5.4	5.1	3.7	2.9	2.4	4.3	e8.4	7.8	4.4	3.0	2.3
4	4.9	5.4	5.1	3.6	2.9	2.4	5.1	e9.2	7.4	4.4	3.0	2.4
5	4.6	5.4	5.1	3.6	2.8	2.4	5.5	e12	7.2	4.3	3.0	2.5
6	4.4	5.4	5.0	3.6	2.7	2.4	6.0	e17	7.2	4.3	3.0	2.5
7	4.6	5.4	4.9	3.7	2.7	2.4	6.6	e15	7.4	4.2	3.0	2.5
8	4.6	5.4	4.9	3.7	2.7	2.4	e7.0	e15	7.7	4.1	3.0	2.5
9	4.4	5.4	4.9	3.6	2.6	2.4	e7.2	16	7.8	4.1	3.0	2.5
10	4.9	5.4	4.9	3.5	2.6	2.5	e9.0	18	7.8	4.0	3.0	2.5
11	5.1	5.4	4.8	3.4	2.5	2.8	e10	18	7.4	4.0	3.0	2.8
12	6.0	5.4	4.7	3.4	2.4	2.9	e12	16	6.8	4.0	2.9	2.8
13	6.0	5.4	4.6	3.4	2.4	3.0	e13	14	6.9	3.9	2.8	2.7
14	6.0	5.7	4.6	3.4	2.4	3.1	e13	13	6.3	3.9	2.7	2.6
15	6.0	5.4	4.6	3.4	2.4	3.3	e13	12	5.9	3.8	2.7	2.6
16	6.0	5.4	4.6	3.4	2.4	3.4	e13	11	5.7	3.6	2.7	2.6
17	6.0	5.4	4.6	3.4	2.3	3.7	e14	e10	5.8	3.5	2.7	2.6
18	5.7	5.7	4.4	3.3	2.2	3.8	e15	11	5.6	3.5	2.7	2.8
19	5.4	5.4	4.4	3.2	2.2	4.0	e15	12	5.4	3.4	2.6	2.9
20	5.4	5.1	4.4	3.2	2.3	4.1	e14	e11	5.2	3.4	2.6	2.8
21	5.1	5.1	4.4	3.2	2.3	4.2	e12	12	5.0	3.6	2.4	2.8
22	5.1	5.1	4.2	3.0	2.3	4.2	e10	e11	4.9	3.8	2.6	2.7
23	5.1	5.1	4.2	3.0	2.2	4.4	e9.0	e11	4.7	3.6	2.6	2.7
24	5.1	5.1	4.2	3.1	2.2	4.5	e8.2	e11	5.1	3.5	2.6	2.7
25	5.1	5.1	4.2	3.2	2.2	4.9	e7.4	12	5.6	3.3	2.6	2.7
26	5.3	5.1	4.2	3.1	2.2	5.1	e7.0	e14	5.1	3.2	2.6	2.6
27	5.4	5.1	4.2	3.2	2.2	4.8	e6.8	e15	5.0	3.2	2.4	2.6
28	5.4	5.4	4.2	3.0	2.2	4.6	e6.6	e14	4.9	3.2	2.3	2.6
29	5.4	5.4	3.9	3.0	---	4.3	e6.8	12	4.8	3.2	2.3	2.7
30	5.4	5.4	3.8	3.0	---	3.9	e6.9	11	4.7	3.2	2.3	2.7
31	5.4	---	3.8	2.9	---	3.6	---	9.7	---	3.1	2.3	---
TOTAL	161.7	160.2	141.2	103.6	68.8	106.5	270.2	386.1	188.2	116.8	84.4	78.4
MEAN	5.22	5.34	4.55	3.34	2.46	3.44	9.01	12.5	6.27	3.77	2.72	2.61
MAX	6.0	5.7	5.2	3.7	2.9	5.1	15	18	8.8	4.6	3.0	2.9
MIN	4.4	5.1	3.8	2.9	2.2	2.3	3.3	7.2	4.7	3.1	2.3	2.3
ACFT	321	318	280	205	136	211	536	766	373	232	167	156

CAL YR 1984	TOTAL	4924.9	MEAN	13.5	MAX	145	MIN	3.8	ACFT	9770
WTR YR 1985	TOTAL	1866.1	MEAN	5.11	MAX	18	MIN	2.2	ACFT	3700

e Estimated.

GREAT SALT LAKE DESERT

299

10172870 TROUT CREEK NEAR CALLAO, UT

LOCATION.--Lat 39°44'39", long 113°53'21", in SW1/4NW1/4SW1/4 sec.28, T.12 S., R.18 W., Juab County, Hydrologic Unit 16020306, on left bank 2.9 mi upstream from Birch Creek and 14 mi southwest of Callao.

DRAINAGE AREA.--8.19 mi².

PERIOD OF RECORD.--October 1958 to current year. Monthly discharge only for October and November 1958, published in WSP 1734.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No diversion above station.

AVERAGE DISCHARGE.--27 years, 5.92 ft³/s, 4,290 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 177 ft³/s June 2, 1983, gage height, 2.84 ft; minimum, 0.24 ft³/s Feb. 25, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 4	0700	*24	*1.76	No other peak greater than base discharge.			

Minimum discharge, 1.2 ft³/s Jan. 23, Sept. 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.3	2.1	2.0	2.0	e1.9	2.4	10	13	4.3	2.6	1.8
2	2.5	2.3	e2.1	2.3	2.0	1.9	2.9	15	12	4.1	2.5	2.0
3	2.5	2.3	2.1	2.2	1.9	1.9	3.9	20	11	4.0	2.5	1.9
4	2.4	2.2	2.1	2.0	1.9	e1.9	4.4	23	10	3.8	2.3	1.9
5	2.4	2.2	1.9	1.9	1.9	e1.9	4.2	23	9.9	3.6	2.2	1.8
6	2.4	2.2	1.6	1.9	1.9	e1.8	4.5	22	9.6	3.4	2.2	1.7
7	2.3	2.2	1.7	2.0	1.9	e1.9	5.5	22	9.6	3.4	2.1	1.6
8	2.3	2.3	2.1	2.1	1.9	e1.9	6.8	21	9.9	3.3	2.0	1.6
9	2.3	2.2	2.0	2.0	1.9	2.0	8.1	20	10	3.0	2.1	1.5
10	2.3	2.2	2.0	2.0	1.9	2.1	9.3	22	10	2.9	2.0	1.6
11	2.4	2.2	2.1	2.0	1.9	2.1	9.6	19	9.9	3.0	2.0	1.5
12	2.5	2.1	2.1	1.9	1.9	2.0	9.9	16	9.7	2.8	2.0	1.5
13	2.5	2.1	e2.1	2.0	1.9	1.9	10	14	9.3	2.8	1.9	1.5
14	2.5	2.1	e2.1	2.0	1.9	2.0	11	13	8.8	2.7	2.0	1.4
15	2.5	2.2	e2.1	1.9	1.9	2.0	13	12	8.3	2.6	1.9	1.3
16	2.5	2.1	e2.0	1.9	1.9	2.0	14	11	7.8	2.6	1.9	1.4
17	2.6	2.1	e1.9	1.9	1.9	2.1	13	12	7.4	3.1	1.9	1.5
18	2.5	2.1	e2.0	2.0	1.9	2.0	12	12	6.8	4.1	1.9	2.7
19	2.5	2.1	e2.0	2.1	1.9	2.1	11	13	6.6	4.3	1.9	2.4
20	2.5	2.1	e2.0	2.0	2.0	2.1	10	13	6.5	3.8	1.8	2.1
21	2.5	2.1	e2.0	2.0	2.0	2.1	9.4	13	6.3	3.8	1.8	2.0
22	2.5	2.0	e2.0	2.0	1.9	2.1	8.4	13	5.9	3.8	1.8	1.9
23	2.5	2.0	e2.0	1.8	1.9	2.1	7.6	13	5.6	3.6	1.9	1.8
24	2.5	2.1	e2.0	2.0	2.0	2.3	6.9	14	5.8	3.5	1.8	1.8
25	2.5	e2.1	e2.0	2.0	1.9	2.4	6.6	16	6.1	3.3	1.7	1.8
26	2.6	e2.1	e2.0	2.0	1.9	2.3	6.2	17	5.5	3.3	1.7	1.7
27	2.6	e2.1	2.0	1.9	1.8	2.3	6.0	17	5.1	3.2	1.8	1.7
28	2.5	e2.1	1.9	1.9	e1.9	2.2	6.0	16	4.8	3.1	1.8	1.8
29	2.4	2.1	1.9	2.0	---	2.3	6.3	16	4.6	3.0	1.7	1.8
30	2.3	2.1	1.9	2.0	---	2.5	7.9	14	4.5	2.8	1.7	1.8
31	2.3	---	1.9	2.0	---	2.3	---	13	---	2.7	1.7	---
TOTAL	76.0	64.4	61.7	61.7	53.6	64.4	236.8	495	240.3	103.7	61.1	52.8
MEAN	2.45	2.15	1.99	1.99	1.91	2.08	7.89	16.0	8.01	3.35	1.97	1.76
MAX	2.6	2.3	2.1	2.3	2.0	2.5	14	23	13	4.3	2.6	2.7
MIN	2.3	2.0	1.6	1.8	1.8	1.8	2.4	10	4.5	2.6	1.7	1.3
ACFT	151	128	122	122	106	128	470	982	477	206	121	105

CAL YR 1984	TOTAL	4224.7	MEAN	11.5	MAX	119	MIN	1.6	ACFT	8380
WTR YR 1985	TOTAL	1571.5	MEAN	4.31	MAX	23	MIN	1.3	ACFT	3120

e Estimated.

TRIBUTARIES BETWEEN GREAT SALT LAKE DESERT AND BEAR RIVER

10172952 DUNN CREEK NEAR PARK VALLEY, UT

LOCATION.--Lat 41°51'31", long 113°19'35", in NW1/4NW1/4 sec.15, T.13 N., R.13 W., Box Elder County, Hydrologic Unit 16020308, on right bank 150 ft upstream from diversion structure, 200 ft downstream from confluence of left hand and right hand forks, and 2.9 mi north of Park Valley.

DRAINAGE AREA.--8.72 mi².

PERIOD OF RECORD.--May 1971 to September 1973, October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,250 ft from topographic map. Prior to Aug. 26, 1982 at site 110 ft downstream at different datum.

REMARKS.--Records fair, including estimated daily discharges. No diversions above station.

AVERAGE DISCHARGE.--11 years, 6.41 ft³/s, 4,640 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 150 ft³/s May 28, 1983; minimum, 0.14 ft³/s Mar. 17, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25 ft³/s May 4, gage height, 1.44 ft; minimum daily, 1.1 ft³/s Feb. 1-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.1	e1.9	1.6	e1.1	e1.8	4.7	11	11	5.1	2.8	1.7
2	3.0	3.2	1.9	1.6	e1.1	2.2	6.6	16	10	4.9	2.8	1.8
3	2.9	3.5	1.9	1.6	e1.1	e1.9	7.8	20	9.5	4.8	2.7	1.8
4	2.9	3.1	1.8	1.6	e1.1	e1.6	7.8	23	9.5	4.7	2.6	1.8
5	3.0	3.0	1.8	1.5	e1.2	e1.5	8.1	20	9.1	4.6	2.6	1.8
6	2.9	2.9	1.8	1.5	e1.3	e1.5	8.5	18	9.5	4.5	2.4	1.7
7	2.8	2.9	1.9	1.6	e1.4	e1.5	9.1	18	10	4.6	2.3	1.7
8	2.8	2.9	1.8	1.6	e1.4	e1.5	11	18	10	4.7	2.2	1.8
9	2.7	2.7	1.8	1.6	e1.4	e1.5	12	18	10	4.8	2.4	1.8
10	2.8	2.8	1.8	1.6	e1.4	e1.5	12	18	9.5	4.6	2.3	1.8
11	3.3	2.8	1.8	1.6	e1.4	e1.5	13	16	9.1	4.6	2.3	1.8
12	3.5	2.6	e1.8	e1.5	e1.4	e1.5	14	15	8.8	4.7	2.3	2.1
13	3.4	2.5	e1.7	e1.4	e1.4	1.5	14	13	8.6	4.5	2.2	1.8
14	3.3	2.2	1.7	e1.4	e1.4	1.7	14	13	8.5	4.1	2.2	1.6
15	3.7	2.1	1.7	1.5	e1.4	2.0	17	13	8.3	4.0	2.1	1.6
16	4.2	2.2	1.7	1.5	e1.4	2.4	19	12	8.1	4.0	2.1	1.5
17	4.8	2.2	1.7	1.6	e1.4	3.2	19	12	7.9	4.2	2.0	1.5
18	4.7	2.1	e1.5	1.5	e1.4	3.8	18	13	7.7	4.9	2.0	2.2
19	4.8	2.1	e1.5	1.6	e1.4	4.4	17	13	7.5	4.6	2.0	2.2
20	4.8	2.1	e1.5	1.6	e1.4	4.8	16	14	7.3	4.1	2.0	2.2
21	4.5	2.2	1.7	1.5	e1.5	4.4	15	13	7.1	3.8	2.0	2.2
22	4.3	2.1	1.8	1.5	e1.6	3.9	14	13	6.9	3.9	2.0	2.1
23	4.2	2.1	1.8	1.4	e1.7	3.7	12	13	6.6	3.7	2.0	2.1
24	4.3	2.1	1.7	1.5	e1.7	3.8	11	15	7.0	3.4	1.9	1.9
25	4.0	1.9	1.7	1.4	e1.7	3.9	10	16	6.9	3.2	1.9	1.4
26	3.9	e1.9	1.7	1.4	e1.6	3.6	9.7	16	6.5	3.1	1.9	1.4
27	3.6	e1.9	1.8	1.4	e1.6	3.6	9.2	14	6.0	2.9	1.8	1.4
28	3.7	e1.9	1.7	1.3	e1.6	3.5	8.8	13	5.6	2.9	1.8	1.4
29	3.9	2.0	1.7	1.4	---	e3.5	8.6	12	5.5	3.4	1.8	1.4
30	3.6	2.2	1.7	e1.3	---	e3.5	9.2	11	5.2	3.4	1.8	1.4
31	3.5	---	1.7	e1.2	---	3.8	---	10	---	3.0	1.8	---
TOTAL	112.8	73.3	54.0	46.3	39.5	84.5	356.1	460	243.2	127.7	67.0	52.9
MEAN	3.64	2.44	1.74	1.49	1.41	2.73	11.9	14.8	8.11	4.12	2.16	1.76
MAX	4.8	3.5	1.9	1.6	1.7	4.8	19	23	11	5.1	2.8	2.2
MIN	2.7	1.9	1.5	1.2	1.1	1.5	4.7	10	5.2	2.9	1.8	1.4
ACFT	224	145	107	92	78	168	706	912	482	253	133	105
CAL YR 1984	TOTAL	3648.8	MEAN	9.97	MAX	73	MIN	1.0	ACFT	7240		
WTR YR 1985	TOTAL	1717.3	MEAN	4.70	MAX	23	MIN	1.1	ACFT	3410		

e Estimated.

SEVIER LAKE BASIN

301

10173450 MAMMOTH CREEK ABOVE WEST HATCH DITCH, NEAR HATCH, UT

LOCATION.--Lat 37°37'19", long 112°31'07", in NE1/4NW1/4SW1/4 sec.3, T.37 S., R.6 W., Garfield County, Hydrologic Unit 16030001, on left bank 0.5 mi upstream from West Hatch ditch diversion, 2 mi upstream from Spring Hollow, 4.5 mi upstream from mouth, and 5 mi southwest of Hatch.

DRAINAGE AREA.--105 mi².

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,300 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. One small diversion for irrigation above station.

AVERAGE DISCHARGE.--21 years, 53.3 ft³/s, 38,620 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 838 ft³/s June 19, 1983, gage height, 5.13 ft; minimum recorded, 0.06 ft³/s Dec. 25, 1977, Jan. 1, 22, 1978, result of ice jam.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 7	0400	*392	*3.87	No other peak greater than base discharge.			

Minimum daily discharge, 5.7 ft³/s Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	24	e13	e7.8	e5.7	e7.1	16	133	250	72	46	27
2	27	23	e12	e7.0	e6.6	e7.5	18	187	230	70	43	27
3	28	23	e13	e6.9	e7.0	e8.0	19	281	213	67	42	28
4	27	23	e13	e6.9	e6.4	e7.2	19	340	200	64	42	28
5	26	22	e12	e6.9	e5.9	e6.7	20	371	194	60	40	28
6	26	22	e10	e7.4	e6.1	e7.2	21	374	188	59	39	28
7	25	23	e11	e8.0	e6.6	e7.2	25	385	186	58	39	28
8	25	23	e11	e8.6	e7.1	e7.0	31	385	181	57	38	27
9	24	22	e12	e8.3	e7.2	e8.0	36	383	172	56	38	27
10	24	23	e12	e8.2	e6.2	e8.8	41	387	165	58	37	27
11	24	25	e12	e7.7	e5.8	e8.4	50	358	160	59	36	28
12	27	22	e12	e6.8	e6.4	e8.0	63	334	148	58	36	28
13	27	22	e12	e6.2	e6.7	e7.7	73	312	142	59	36	27
14	27	22	e11	e6.1	e6.8	e8.4	82	265	139	56	35	26
15	27	21	e11	e6.0	e6.8	e9.5	115	237	135	54	35	26
16	27	21	e10	e6.8	e6.9	e9.3	142	289	130	54	34	25
17	29	21	e8.6	e7.0	e7.0	e9.2	152	329	124	63	34	25
18	29	21	e9.5	e7.1	e7.1	e8.8	160	333	116	65	33	28
19	27	22	e10	e7.8	e6.8	e9.5	142	320	108	68	32	30
20	27	22	e9.8	e7.7	e7.2	e8.8	133	316	103	61	32	29
21	27	23	e8.3	e7.7	e6.8	e8.6	118	315	98	61	31	27
22	26	21	e7.7	e7.0	e6.6	e8.5	107	308	94	58	31	27
23	26	21	e7.8	e6.9	e7.1	e8.9	95	321	90	54	30	26
24	25	21	e8.0	e7.7	e6.8	e10	89	316	93	52	29	25
25	25	22	e8.3	e7.5	e6.6	e12	86	318	101	50	29	25
26	25	22	e8.6	e7.5	e6.6	e12	77	325	92	48	32	25
27	25	e13	e9.4	e7.1	e6.6	e12	78	313	87	46	34	25
28	25	e14	e9.2	e6.8	e6.9	e12	76	300	82	49	30	25
29	24	e13	e8.7	e7.1	---	e11	77	285	80	62	29	25
30	24	e14	e8.2	e7.2	---	e10	101	269	76	55	28	25
31	24	---	e8.5	e6.6	---	16	---	264	---	51	27	---
TOTAL	805	631	317.6	224.3	186.3	283.3	2262	9653	4177	1804	1077	802
MEAN	26.0	21.0	10.2	7.24	6.65	9.14	75.4	311	139	58.2	34.7	26.7
MAX	29	25	13	8.6	7.2	16	160	387	250	72	46	30
MIN	24	13	7.7	6.0	5.7	6.7	16	133	76	46	27	25
ACFT	1600	1250	630	445	370	562	4490	19150	8290	3580	2140	1590
CAL YR 1984	TOTAL	20753.6	MEAN	56.7	MAX	462	MIN	7.7	ACFT	41160		
WTR YR 1985	TOTAL	22222.5	MEAN	60.9	MAX	387	MIN	5.7	ACFT	44080		

e Estimated.

SEVIER LAKE BASIN

10174500 SEVIER RIVER AT HATCH, UT

LOCATION.--Lat 37°39'04", long 112°25'46", in SW1/4SW1/4NW1/4 sec.28, T.36 S., R.5 W., Garfield County, Hydrologic Unit 16030001, on right bank at highway bridge, 0.2 mi east of Hatch, and 2.8 mi downstream from Mammoth Creek.

DRAINAGE AREA.--340 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1911 to September 1928, June 1939 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Hatchtown" 1911 and as "near Hatch" 1912.

REVISED RECORDS.--WSP 960: 1939-40. WSP 1284: 1916. WSP 1564: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,870 ft from river-profile map. See WSP 1734 for history of changes prior to Oct. 4, 1949. Relocated at present site Aug. 22, 1978.

REMARKS.--Records fair, including estimated daily discharges. Small diversions for irrigation above station. No regulation since Hatchtown Dam failed in 1914.

AVERAGE DISCHARGE.--63 years, 127 ft³/s, 92,010 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, occurred May 25, 1914, when Hatchtown Dam failed; maximum recorded, 1,490 ft³/s May 26, 1922, gage height, 5.25 ft, datum then in use; minimum daily, 10 ft³/s for several days in 1912 when water was stored in Hatchtown Reservoir. Minimum natural flow, 20 ft³/s Aug. 30, 31, Sept. 1, 7-9, 1977.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 10	0330	*626	*2.75	No other peak greater than base discharge.			

Minimum discharge, 38 ft³/s Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	e78	71	e66	e50	65	77	247	352	173	130	88
2	78	e77	e66	e64	e56	66	91	306	328	158	126	91
3	78	e74	71	e54	e53	66	92	373	315	157	124	85
4	80	e74	71	e54	58	70	94	441	303	152	111	88
5	76	e74	69	e56	55	68	99	478	301	150	105	89
6	76	e73	69	e58	e54	65	116	495	298	145	103	90
7	77	e73	69	59	e57	62	123	511	290	148	98	90
8	75	e75	71	60	e62	62	152	497	287	150	94	90
9	75	e74	70	61	50	63	156	514	278	149	89	87
10	72	e73	69	62	45	73	173	587	272	151	92	88
11	70	e76	71	61	e40	81	194	539	264	154	90	89
12	81	e75	70	60	42	80	207	481	257	151	91	89
13	84	e74	73	e52	44	73	222	457	240	155	90	88
14	84	e72	e64	e51	45	72	240	420	237	149	89	86
15	82	76	78	e52	48	72	262	381	233	139	90	85
16	81	76	78	e56	48	73	305	412	228	137	88	85
17	87	78	e59	e62	50	77	311	433	218	149	88	82
18	90	75	74	67	52	74	335	433	209	150	87	90
19	88	75	76	62	52	84	326	424	208	162	87	100
20	88	75	72	62	55	80	303	416	205	161	83	88
21	e86	74	e68	60	55	76	286	417	198	159	86	84
22	e85	74	e55	58	55	75	263	406	190	155	85	83
23	e83	74	e59	57	56	74	244	424	187	148	86	82
24	e81	74	e62	61	57	80	228	415	190	146	81	82
25	e80	76	e66	63	60	87	225	411	204	140	85	77
26	e81	71	e73	62	60	84	222	418	194	132	88	78
27	e82	e65	71	62	61	79	218	405	188	126	103	77
28	e81	e71	69	63	63	82	213	392	186	129	92	80
29	e79	73	68	58	---	70	209	369	181	159	88	80
30	e78	71	69	61	---	72	225	365	183	154	87	82
31	e78	---	e70	e52	---	72	---	355	---	141	84	---
TOTAL	2494	2220	2141	1836	1483	2277	6211	13222	7224	4629	2920	2573
MEAN	80.5	74.0	69.1	59.2	53.0	73.5	207	427	241	149	94.2	85.8
MAX	90	78	78	67	63	87	335	587	352	173	130	100
MIN	70	65	55	51	40	62	77	247	181	126	81	77
ACFT	4950	4400	4250	3640	2940	4520	12320	26230	14330	9180	5790	5100

CAL YR 1984	TOTAL	44960	MEAN	123	MAX	600	MIN	55	ACFT	89180
WTR YR 1985	TOTAL	49230	MEAN	135	MAX	587	MIN	40	ACFT	97650

e Estimated.

SEVIER LAKE BASIN

303

10174500 SEVIER RIVER AT HATCH, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1985 to September 1985.

SUSPENDED-SEDIMENT DISCHARGE: January 1985 to September 1985.

EXTREMES FOR CURRENT YEAR:

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,090 mg/L Apr. 16; minimum daily mean, 8 mg/L Aug. 14-17.

SEDIMENT LOADS: Maximum daily, 898 tons Apr. 16; minimum daily, 1.9 tons Aug. 14-17.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN CONCEN- TRATION		MEAN CONCEN- TRATION		MEAN CONCEN- TRATION		MEAN CONCEN- TRATION		MEAN CONCEN- TRATION		MEAN CONCEN- TRATION	
	(MG/L)	LOADS (T/DAY)	(MG/L)	LOADS (T/DAY)	(MG/L)	LOADS (T/DAY)	(MG/L)	LOADS (T/DAY)	(MG/L)	LOADS (T/DAY)	(MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1							90	16	50	6.8	43	7.5
2							90	16	56	7.6	49	8.7
3							58	8.5	53	7.2	52	9.3
4							55	8.0	58	7.8	40	7.6
5							87	13	55	7.4	37	6.8
6							78	12	54	7.3	44	7.7
7							38	6.1	57	7.7	40	6.7
8							39	6.3	62	10	44	7.4
9							41	6.8	50	6.8	39	6.6
10							33	5.5	45	6.1	46	9.1
11							34	5.6	40	5.4	55	12
12							40	6.5	49	5.6	82	18
13							54	7.6	46	5.5	63	12
14							51	6.9	40	4.9	43	8.4
15							52	7.0	55	7.1	45	8.7
16							56	7.6	46	6.0	43	8.5
17							62	8.4	45	6.1	37	7.7
18							48	8.7	43	6.0	52	10
19							40	6.7	42	5.9	76	17
20							35	5.9	52	7.7	75	16
21							30	4.9	58	8.6	63	13
22							33	5.2	47	7.0	70	14
23							45	6.9	39	5.9	66	13
24							47	7.7	33	5.1	73	16
25							65	11	35	5.7	95	22
26							90	15	35	5.7	102	23
27							85	14	43	7.1	64	14
28							65	11	58	9.9	81	18
29							61	9.6	---	---	98	19
30							61	9.1	---	---	86	17
31							52	7.0	---	---	63	12
TOTAL							---	270.5	---	189.9	---	376.7

SEVIER LAKE BASIN

305

10180000 SEVIER RIVER NEAR CIRCLEVILLE, UT

LOCATION.--Lat 38°06'15", long 112°20'08", in NE1/4SW1/4NW1/4 sec.20, T.31 S., R.4 W., Garfield County, Hydrologic Unit 16030001, on left bank 2 mi upstream from Pine Creek and 6 mi southwest of Circleville.

DRAINAGE AREA.--986 mi².

PERIOD OF RECORD.--May to September 1912, April 1914 to September 1927 (fragmentary 1923, 1925-57), October 1949 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1180: 1922(M). WSP 1314: 1916. WRD UT-75-1: 1969. WDR UT-78-1: Drainage area. WDR UT-83-1: 1972(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft from river-profile map. May 10 to Sept. 19, 1912, nonrecording gage at site 300 ft upstream at different datum. Apr. 23, 1914 to Sept. 30, 1927, and Nov. 21, 1949 to Aug. 6, 1954, water-stage recorder at site 300 ft upstream at datum 0.23 ft higher.

REMARKS.--Records good except for estimated daily values, which are poor. Many diversions above and below station.

AVERAGE DISCHARGE.--45 years (1914-22, 24, 1949-85), 150 ft³/s, 108,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft³/s Dec. 26, 1971, June 2, 1983, gage height, 7.06 ft; minimum daily, 18 ft³/s June 30, July 1, 5, 1960, June 23, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1938 may have exceeded that of June 2, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 984 ft³/s July 19, gage height, 4.45 ft; minimum daily, 86 ft³/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	164	160	e148	e123	e157	170	405	325	144	106	105
2	93	164	154	e142	e128	e159	178	429	283	129	100	117
3	113	163	156	e137	e129	e158	187	465	255	126	98	100
4	120	160	161	e135	e125	e150	192	533	253	122	95	104
5	126	160	158	e132	e112	e148	189	577	248	108	93	98
6	119	164	154	e132	e120	e148	200	580	258	105	92	95
7	113	160	147	e134	e140	e150	206	552	244	99	93	93
8	114	161	157	e138	e150	e158	221	549	224	101	100	95
9	119	165	159	144	e150	e170	264	536	206	101	97	97
10	120	154	162	151	e148	e172	298	539	200	104	93	99
11	126	157	161	148	e140	e165	299	530	190	124	91	103
12	139	159	165	138	e139	e160	328	492	185	110	89	114
13	120	159	158	e136	e137	e160	332	462	170	106	89	102
14	137	155	138	e135	e135	161	338	435	156	108	91	103
15	136	165	184	e138	e140	171	338	373	155	106	90	98
16	134	167	160	e141	e143	171	357	342	151	111	88	94
17	140	167	143	e145	e148	180	362	376	146	120	88	95
18	153	163	149	e148	e152	187	381	390	135	150	88	99
19	170	160	168	e149	e157	204	403	382	126	464	88	123
20	169	159	170	e150	e152	216	408	388	118	239	88	121
21	180	159	157	e149	e150	195	422	390	119	208	89	111
22	179	162	e147	e149	e146	181	409	385	109	273	87	103
23	181	166	e142	e150	e138	172	370	385	102	201	87	109
24	178	171	e145	e148	e138	174	316	385	110	178	87	114
25	174	172	e148	e145	e140	184	290	370	128	152	87	108
26	170	162	e150	e142	e145	179	314	356	186	123	88	101
27	174	147	e150	e140	e150	164	328	350	181	117	92	98
28	167	167	e148	e138	e152	159	374	336	171	119	112	106
29	167	164	e150	e133	---	153	387	330	151	148	116	112
30	167	158	e151	e129	---	146	390	300	135	157	110	117
31	166	---	e150	e119	---	164	---	319	---	121	100	---
TOTAL	4450	4854	4802	4363	3927	5216	9251	13241	5420	4574	2912	3134
MEAN	144	162	155	141	140	168	308	427	181	148	93.9	104
MAX	181	172	184	151	157	216	422	580	325	464	116	123
MIN	86	147	138	119	112	146	170	300	102	99	87	93
ACFT	8830	9630	9520	8650	7790	10350	18350	26260	10750	9070	5780	6220

CAL YR 1984 TOTAL 70296 MEAN 192 MAX 641 MIN 71 ACFT 139400
WTR YR 1985 TOTAL 66144 MEAN 181 MAX 580 MIN 86 ACFT 131200

e Estimated.

SEVIER LAKE BASIN

10183500 SEVIER RIVER NEAR KINGSTON, UT

LOCATION.--Lat 38°12'22", long 112°12'25", in SE1/4NE1/4NW1/4 sec.16, T.30 S., R.3 W., Piute County, Hydrologic Unit 16030001, on left bank 1,000 ft upstream from bridge on State Highway 22, 1.1 mi west of Kingston, and 1.9 mi upstream from East Fork.

DRAINAGE AREA.--1,131 mi².

PERIOD OF RECORD.--June 1914 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,980 ft from river-profile map. Prior to Sept. 20, 1918, at site 1 mi downstream at different datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--71 years, 129 ft³/s, 93,460 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,000 ft³/s (including estimated flow of 360 ft³/s in overflow channel bypassing station), Mar. 4, 1938, gage height, 5.20 ft from rating curve extended above 600 ft³/s; minimum, 0.90 ft³/s July 26, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 660 ft³/s July 19, gage height, 2.68 ft; minimum daily, 23 ft³/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	179	193	167	e140	210	244	363	193	35	60	31
2	44	180	189	161	148	215	248	367	176	33	61	35
3	47	178	187	155	163	203	244	362	153	40	44	33
4	55	173	188	151	168	188	244	368	135	37	45	35
5	63	159	185	154	116	191	240	426	123	33	39	32
6	72	152	181	161	170	195	244	440	122	38	41	35
7	71	152	177	168	155	198	254	411	104	41	35	39
8	62	158	184	171	183	194	265	408	84	29	38	40
9	63	177	191	173	192	198	285	377	76	26	34	36
10	61	178	194	174	176	225	297	382	75	25	32	35
11	74	172	194	172	171	247	305	395	74	25	27	42
12	100	183	203	164	191	242	332	350	67	28	27	42
13	100	185	193	149	192	226	350	337	55	28	28	35
14	107	186	168	148	181	219	359	305	52	28	29	32
15	122	190	202	147	179	225	350	265	50	29	28	36
16	129	195	194	154	182	227	350	220	54	32	27	60
17	142	197	172	166	191	230	354	203	46	34	28	61
18	151	193	179	168	199	240	368	220	41	50	28	69
19	169	186	194	168	205	244	390	220	45	330	28	84
20	175	191	200	170	209	262	315	227	46	183	26	88
21	193	186	187	172	196	244	418	213	44	140	26	92
22	190	188	172	167	191	230	390	206	41	175	26	86
23	192	195	e165	167	188	223	359	216	33	174	24	94
24	191	199	e160	168	182	220	293	230	35	131	23	102
25	189	202	181	172	187	227	262	223	47	70	24	106
26	189	196	e175	174	195	227	285	203	53	46	26	105
27	189	172	e173	177	196	216	289	196	55	48	27	99
28	186	183	e170	172	205	210	328	196	48	43	29	91
29	186	197	e180	173	---	210	334	180	46	43	31	89
30	183	193	187	170	---	196	346	164	36	79	31	105
31	183	---	175	131	---	203	---	166	---	74	31	---
TOTAL	3920	5475	5693	5084	5051	6785	9342	8839	2209	2127	1003	1869
MEAN	126	183	184	164	180	219	311	285	73.6	68.6	32.4	62.3
MAX	193	202	203	177	209	262	418	440	193	330	61	106
MIN	42	152	160	131	116	188	240	164	33	25	23	31
ACFT	7780	10860	11290	10080	10020	13460	18530	17530	4380	4220	1990	3710
CAL YR 1984	TOTAL	65715	MEAN	180	MAX	537	MIN	23	ACFT	130300		
WTR YR 1985	TOTAL	57397	MEAN	157	MAX	440	MIN	23	ACFT	113800		

e Estimated.

SEVIER LAKE BASIN

307

10183900 EAST FORK SEVIER RIVER NEAR RUBYS INN, UT

LOCATION.--Lat 37°34'33", long 112°15'54", in NE1/4SE1/4NW1/4 sec.19, T.37 S., R.4 W., Garfield County, Hydrologic Unit 16030002, Dixie National Forest, on left bank about 100 ft upstream from highway bridge, 0.6 mi downstream from Skunk Creek, 3.6 mi upstream from Tropic Reservoir Dam, 9.1 mi southwest of Rubys Inn, and 10.5 mi southeast of Hatch.

DRAINAGE AREA.--71.6 mi².

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WRD UT-74-1: 1973.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,860 ft from river-profile map. Prior to October 10, 1966, on right bank at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversions above station.

AVERAGE DISCHARGE.--24 years, 17.9 ft³/s, 12,970 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 448 ft³/s May 23, 1980, gage height, 3.28 ft; no flow for several days in February and March 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*);

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 10	2100	*93	*2.41	May 4	0030	66	2.19

Minimum, 3.0 ft³/s Nov. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	12	e12	e8.0	e8.0	e11	25	45	27	11	11	7.0
2	11	11	e11	e8.0	e10	e12	36	44	23	11	11	7.8
3	13	11	e13	e8.0	e9.6	e12	38	50	22	10	10	8.1
4	14	11	e12	e8.8	e10	e12	42	61	21	10	9.7	8.8
5	11	11	e11	e9.5	e9.5	e11	48	60	21	9.7	9.4	8.5
6	10	11	e11	e10	e10	e13	56	59	20	9.7	9.0	8.5
7	9.8	11	e12	e11	e11	e12	63	57	18	9.7	8.6	8.5
8	9.7	11	e13	e11	e11	e11	62	56	17	9.7	8.6	8.5
9	9.7	14	e12	e11	e14	e13	67	53	17	11	8.4	7.9
10	9.8	11	e16	e10	e12	e16	77	60	16	13	8.2	8.2
11	10	15	e15	e9.0	e11	e12	76	56	16	13	7.6	15
12	25	18	e14	e8.5	e12	e10	74	48	15	12	7.5	12
13	12	14	e12	e9.0	e12	e10	73	43	15	12	7.5	9.4
14	13	14	e11	e9.0	e11	e12	71	39	15	11	7.6	8.8
15	11	12	e10	e9.0	e12	e15	72	36	15	12	7.7	8.4
16	10	12	e10	e9.0	e12	e12	72	34	14	12	7.2	8.0
17	11	13	e11	e9.2	e12	e12	69	34	14	13	7.3	7.8
18	15	14	e11	e10	e13	e11	69	34	15	12	7.9	11
19	14	15	e10	e12	e14	e13	66	34	14	13	7.4	16
20	15	15	e12	e11	e13	e15	62	33	14	16	7.0	11
21	14	14	e12	e10	e13	e13	53	36	13	16	7.1	10
22	12	13	e12	e10	e14	e11	47	34	13	16	7.1	9.6
23	13	12	e12	e10	e13	e10	43	34	13	13	6.9	9.0
24	12	13	e12	e10	e15	e13	44	32	14	13	6.9	8.8
25	15	11	e12	e12	e14	e15	51	30	17	11	6.7	8.6
26	13	11	e12	e12	e12	e14	49	27	15	11	8.7	8.6
27	14	11	e10	e13	e11	e12	53	26	13	12	9.0	9.7
28	13	e10	e12	e11	e11	e10	52	24	12	14	11	13
29	13	e11	e10	e10	---	13	46	24	12	32	7.8	9.3
30	13	e12	e9.5	e9.0	---	15	45	23	12	18	7.3	9.0
31	13	---	e8.5	e7.8	---	22	---	30	---	13	7.0	---
TOTAL	388.1	374	361.0	305.8	330.1	393	1701	1256	483	399.8	254.1	284.8
MEAN	12.5	12.5	11.6	9.86	11.8	12.7	56.7	40.5	16.1	12.9	8.20	9.49
MAX	25	18	16	13	15	22	77	61	27	32	11	16
MIN	9.1	10	8.5	7.8	8.0	10	25	23	12	9.7	6.7	7.0
ACFT	770	742	716	607	655	780	3370	2490	958	793	504	565
CAL YR 1984	TOTAL	5374.0	MEAN	14.7	MAX	35	MIN	6.4	ACFT	10660		
WTR YR 1985	TOTAL	6530.7	MEAN	17.9	MAX	77	MIN	6.7	ACFT	12950		

e Estimated.

SEVIER LAKE BASIN

10188000 OTTER CREEK RESERVOIR NEAR ANTIMONY, UT

LOCATION.--Lat 38°10'15", long 112°01'25", in NW1/4SW1/4NW1/4 sec.28, T.30 S., R.2 W., Piute County, Hydrologic Unit 16030002, near spillway on right side of dam on Otter Creek, 3.7 mi northwest of Antimony and 9.3 mi east of Kingston.

DRAINAGE AREA.--373 mi².

PERIOD OF RECORD.--January 1914 to September 1915, January 1934 to current year. Published as "near Coyote" 1914.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Staff gage usually read near the 10th, 20th, and last day of each month. Altitude of gage is 6,350 ft by barometer.

REMARKS.--Reservoir was formed in 1898 by a 15-ft earthfill, rock-faced dam which was raised some each year to the ultimate height of 45 ft in 1915. The dam has a concrete core through the center. Capacity, 52,700 acre-ft between gage height zero (bottom of outlet gage) and 36.0 ft (top of flashboards on spillway). At times, additional flashboards are added or surcharge occurs increasing the stage to 37.0 ft, capacity, 55,200 acre-ft. Spillway crest is at gage height 33.5 ft. Figures given herein represent total contents. Reservoir stores water from Otter Creek and also water diverted from East Fork Sevier River, for irrigation in Sevier River basin.

COOPERATION.--Gage-height record furnished by Otter Creek Reservoir Company. Revised capacity table, based on Soil Conservation Service survey in 1960, used since Oct. 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 56,760 acre-ft May 31, 1982, gage height, 37.6 ft; minimum observed, 200 acre-ft Sept. 10, 1956, gage height, 1.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 52,660 acre-ft several days during April, May, and June, gage height, 36.0 ft; minimum observed, 41,200 acre-ft Sept. 16, 23, gage height, 31.2 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	-	49,440	-
Oct. 31	35.0	50,170	+730
Nov. 30	34.2	48,220	-1,950
Dec. 31	34.6	49,190	+970
CAL YR 1984	-	-	-740
Jan. 31	34.2	48,220	-970
Feb. 28	34.0	47,730	-490
Mar. 31	-	*47,490	-240
Apr. 30	-	*52,660	+5,170
May 31	-	*52,660	0
June 30	-	*47,490	-5,170
July 31	-	*44,950	-2,540
Aug. 31	-	*41,810	-3,140
Sept. 30	-	*41,800	-10
WTR YR 1985	-	-	-7,640

* No gage reading, contents interpolated.

SEVIER LAKE BASIN

309

10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT

LOCATION.--Lat 38°11'49", long 112°09'01", in NW1/4SW1/4SE1/4 sec.13, T.30 S., R.3 W., Piute County, Hydrologic Unit 16030002, on left bank 1,500 ft upstream from bridge on State Highway 22, 2.2 mi east of Kingston, 4.6 mi upstream from mouth, and 10 mi downstream from Otter Creek.

DRAINAGE AREA.--1,207 mi².

PERIOD OF RECORD.--March 1913 to current year.

REVISED RECORDS.--WSP 750: 1931-32. WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,150 ft from river-profile map. Prior to Apr. 29, 1914, staff gage at site 0.5 mi upstream at different datum. Apr. 29, 1914 to June 2, 1939, water-stage recorder at site 4,000 ft downstream at different datum. June 12, 1939 to July 29, 1970, water-stage recorder at site 2,500 ft downstream at different datum. July 30, 1970 to July 12, 1983, water stage recorder 60 ft downstream at different datum.

REMARKS.--Records fair, including estimated daily discharges. Diversions for irrigation above and below station. Also diversion upstream for storage in Otter Creek Reservoir (see station 10188000); flow regulated by reservoir.

AVERAGE DISCHARGE.--72 years, 79.6 ft³/s, 57,670 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,030 ft³/s May 12, 1941, gage height, 5.05 ft; minimum, 1.0 ft³/s Jan. 25, 1976, gage height, 0.52 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 569 ft³/s May 3, gage height, 3.31 ft; minimum daily, 18 ft³/s Sept. 26, 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	131	142	159	133	139	169	362	e112	107	51	40
2	62	132	141	147	142	147	172	388	e111	106	50	42
3	64	131	142	143	120	144	176	464	e111	106	51	44
4	61	130	145	141	122	140	186	440	110	108	51	43
5	62	128	146	142	118	144	194	435	109	106	55	43
6	63	123	146	140	125	146	206	391	109	103	58	47
7	65	119	144	140	125	145	223	369	108	101	60	43
8	71	117	145	180	126	151	177	349	105	101	62	43
9	102	120	146	185	123	154	179	387	107	101	62	46
10	101	163	156	186	121	165	166	372	105	100	63	57
11	93	163	152	181	125	177	189	345	103	100	62	51
12	73	165	151	174	129	171	235	285	103	96	62	55
13	74	173	150	175	101	163	256	265	101	84	64	50
14	78	180	143	182	98	161	241	252	100	83	62	51
15	81	171	139	180	95	163	233	243	106	82	64	59
16	79	167	101	151	96	166	270	140	108	83	63	47
17	76	166	103	149	100	166	220	135	107	85	62	45
18	80	166	97	152	109	168	235	e130	107	98	63	39
19	82	165	99	117	134	167	164	e130	105	105	62	42
20	87	164	103	152	141	168	169	e129	102	100	62	41
21	96	161	104	155	140	171	137	e127	103	90	62	38
22	98	160	110	154	138	168	147	e126	100	94	63	25
23	107	160	112	153	137	152	150	e124	104	76	62	21
24	140	159	111	155	132	153	152	e121	107	67	60	20
25	142	161	111	154	132	156	158	e125	112	64	58	24
26	142	156	106	152	133	158	172	e117	119	64	59	18
27	140	147	108	151	135	159	298	e118	116	63	58	20
28	134	146	110	146	138	162	299	e116	113	62	57	21
29	132	147	112	148	---	159	295	e113	110	61	57	18
30	127	146	114	145	---	154	313	e112	109	55	56	18
31	127	---	122	137	---	161	---	e112	---	53	39	---
TOTAL	2927	4517	3911	4826	3468	4898	6181	7322	3222	2704	1820	1151
MEAN	94.4	151	126	156	124	158	206	236	107	87.2	58.7	38.4
MAX	142	180	156	186	142	177	313	464	119	108	64	59
MIN	61	117	97	117	95	139	137	112	100	53	39	18
ACFT	5810	8960	7760	9570	6880	9720	12260	14520	6390	5360	3610	2280
CAL YR 1984	TOTAL	49807	MEAN	136	MAX	524	MIN	53	ACFT	98790		
WTR YR 1985	TOTAL	46947	MEAN	129	MAX	464	MIN	18	ACFT	93120		

e Estimated.

SEVIER LAKE BASIN

10191000 PIUTE RESERVOIR NEAR MARYSVALE, UT

LOCATION.--Lat 38°19'26", long 112°11'26", in NW1/4NE1/4NW1/4 sec.3, T.29 S., R.3 W., Piute County, Hydrologic Unit 16030001, at Piute Dam on Sevier River, 9.0 mi south of Marysville.

DRAINAGE AREA.--2,438 mi².

PERIOD OF RECORD.--March 1914 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Staff gage read at irregular intervals. Datum of gage is 5,900.8 ft NGVD of 1929 (levels by Office of State Engineer).

REMARKS.--Reservoir is formed by earthfill dam; storage began in summer of 1910. Capacity, 71,830 acre-ft between gage heights 10 ft (approximate bottom of reservoir) and 76 ft (top of flashboards on spillway since 1941). Spillway crest is at gage height 70.2 ft. No dead storage. Water is used for irrigation. Revised capacity table, based on Soil Conservation Service survey in 1960, used since Oct. 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 83,050 acre-ft June 5, 1983, gage height, 79.8 ft, original capacity table; no contents at times in several years.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 72,090 acre-ft Apr. 13, gage height, 76.1 ft; minimum observed, 100 acre-ft Sep. 30, gage height, 20.2 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	62.5	43,580	-
Oct. 31	-	*51,040	+7,460
Nov. 30	72.5	63,410	+12,370
Dec. 31	70.5	59,090	-4,320
CAL YR 1984	-	-	-9,950
Jan. 31	71.8	61,860	+2,770
Feb. 28	71.8	61,860	0
Mar. 31	-	*71,830	+9,970
Apr. 30	-	*71,830	0
May 31	-	*68,900	-2,930
June 30	-	*59,260	-9,640
July 31	-	*45,250	-14,010
Aug. 31	46.0	18,010	-27,240
Sept. 30	20.2	100	-17,910
WTR YR 1985	-	-	-43,480

* No gage reading, contents interpolated.

SEVIER LAKE BASIN

311

10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UTAH

LOCATION.--Lat 38°19'43", long 112°11'30", in NW1/4SW1/4SE1/4 sec.34, T.28 S., R.3 W., Piute County, Hydrologic Unit 16030003, on left bank 0.25 mi downstream from Piute Dam and 8.5 mi south of Marysville.

DRAINAGE AREA.--2,441 mi².

PERIOD OF RECORD.--May to August 1911, May 1912 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,870 ft by barometer. Prior to May 4, 1912, nonrecording gage at site 0.25 mi upstream at different datums. May 4, 1912 to Mar. 31, 1935, water-stage recorder at site 0.05 mi upstream at different datum. Apr. 1, 1935 to Apr. 7, 1936, at datum 0.7 ft higher. Apr. 8, 1936 to Feb. 25, 1970, at datum 0.5 ft higher. Feb. 26, 1970 to Apr. 22, 1979 at site 0.25 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Piute Reservoir (see station 10191000).

AVERAGE DISCHARGE.--73 years (1912-85), 219 ft³/s, 158,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,600 ft³/s May 23, 24, 1922, gage height, 4.45 ft site and datum then in use; practically no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,580 ft³/s May 4, gage height, 2.98 ft; minimum, 3.6 ft³/s Apr. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	50	289	469	317	375	366	537	230	443	279	567
2	106	50	403	468	315	375	361	741	86	548	391	558
3	106	50	440	468	312	375	357	872	251	605	443	550
4	106	50	439	210	314	375	353	1100	252	661	441	543
5	106	50	436	34	322	375	379	1150	251	662	468	534
6	106	50	436	271	321	375	430	1130	182	665	501	526
7	106	50	435	281	319	375	448	1100	108	669	562	519
8	106	50	434	281	317	375	387	1000	72	663	560	512
9	107	66	434	233	317	375	356	883	41	659	614	504
10	109	117	433	9.2	319	375	354	785	4.6	652	682	496
11	109	115	432	9.7	319	381	297	753	15	646	677	489
12	109	115	458	10	317	173	523	752	143	626	669	477
13	111	120	494	11	317	10	575	741	255	612	666	468
14	112	121	493	279	317	10	585	714	264	582	662	461
15	112	124	493	e465	317	10	580	541	275	559	641	442
16	60	125	490	e460	317	9.9	575	523	290	472	632	438
17	19	128	481	e460	317	9.9	576	454	322	428	616	429
18	56	128	491	e460	317	9.9	577	432	358	398	602	417
19	216	128	488	463	317	9.9	576	354	503	338	599	408
20	216	128	e487	461	318	9.9	566	374	586	263	594	397
21	219	128	e486	460	323	9.9	535	375	629	211	590	386
22	153	127	e485	461	323	9.9	534	381	614	211	609	376
23	46	124	e486	460	323	9.9	553	367	605	167	625	367
24	48	124	e485	422	323	9.4	560	355	600	141	618	355
25	48	420	e486	312	323	71	564	383	574	141	612	343
26	48	602	487	313	341	287	563	403	540	145	607	331
27	49	596	487	316	375	349	466	403	531	145	601	319
28	50	556	473	317	381	387	390	295	452	145	594	300
29	50	264	471	317	---	383	407	240	343	145	587	269
30	50	240	470	317	---	374	483	257	346	145	579	187
31	50	---	469	317	---	372	---	251	---	178	572	---
TOTAL	2995	4996	14271	9814.9	9058	6645.6	14276	18646	9722.6	12923	17893	12968
MEAN	96.6	167	460	317	324	214	476	601	324	417	577	432
MAX	219	602	494	469	381	387	585	1150	629	669	682	567
MIN	19	50	289	9.2	312	9.4	297	240	4.6	141	279	187
ACFT	5940	9910	28310	19470	17970	13180	18320	36980	19280	25630	35490	25720
CAL YR 1984	TOTAL	130292		MEAN	356	MAX	757	MIN	19	ACFT	258400	
WTR YR 1985	TOTAL	134209.1		MEAN	368	MAX	1150	MIN	4.6	ACFT	266200	

e Estimated.

SEVIER LAKE BASIN

10194000 SEVIER RIVER ABOVE CLEAR CREEK, NEAR SEVIER, UT

LOCATION.--Lat 38°34'20", long 112°15'27", In NE1/4NW1/4NE1/4 sec.5, T.26 S., R.4 W., Sevier County, Hydrologic Unit 16030003, on right bank 0.6 mi upstream from bridge on U.S. Highway 89, 0.7 mi upstream from Clear Creek, and 1.0 mi south of Sevier.

DRAINAGE AREA.--2,707 mi².

PERIOD OF RECORD.--May 1911 to November 1916 (published as Sevier River at Sevier), April 1939 to September 1955, October 1960 to current year. Records for November 1916 to September 1929 (published as Sevier River at Sevier) include flow of Clear Creek and are not equivalent.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,560 ft by barometer. Prior to May 16, 1912, nonrecording gage, and May 16, 1912 to Sept. 30, 1929, water-stage recorder, at site 0.8 mi downstream at different datums (datum lowered 1.0 ft Mar. 31, 1913).

REMARKS.--Records good except for estimated daily discharges, which are fair. Many diversions above station for irrigation. Flow regulated by Pulte Reservoir.

AVERAGE DISCHARGE.--45 years (1912-16, 1939-55, 1960-85), 248 ft³/s, 179,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--(Not including flow of Clear Creek): Maximum discharge, 2,500 ft³/s June 3, 1983, gage height, 4.82 ft; minimum, 2.3 ft³/s Dec. 13, 1964. 1916-29 (including flow of Clear Creek): Maximum discharge, 2,800 ft³/s during last week of May 1922, computed on basis of records for station near Marysville; minimum, 9.8 ft³/s March 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,300 ft³/s May 6, gage height, 3.32 ft; minimum daily, 35 ft³/s Mar. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	95	288	496	e340	413	394	544	457	495	227	547
2	164	96	379	492	e340	412	402	715	406	495	330	542
3	172	92	468	e480	e340	411	399	878	333	601	427	532
4	160	93	478	e350	e339	412	390	1030	405	667	436	527
5	157	93	478	e200	e340	411	392	1180	422	680	440	527
6	155	94	473	e300	e341	410	434	1260	439	672	468	520
7	149	92	477	e325	e340	410	480	1260	451	667	502	514
8	145	94	477	332	e340	410	485	1240	450	661	527	511
9	158	95	474	327	e340	413	487	1160	422	644	532	504
10	147	92	475	207	e340	419	495	1060	380	633	605	496
11	147	e140	474	72	e341	417	504	968	329	622	622	496
12	147	e168	475	e40	e342	406	443	930	296	605	633	491
13	147	e169	522	e65	e343	115	606	894	440	584	633	485
14	160	170	524	83	e346	63	642	858	495	568	627	476
15	152	173	529	447	e345	56	656	750	512	532	627	467
16	152	173	524	e440	e360	52	666	664	499	522	600	460
17	92	176	465	e441	e360	48	664	615	507	473	595	459
18	72	176	472	e440	362	45	669	593	530	436	573	454
19	139	176	517	e439	363	43	668	564	567	418	563	454
20	236	176	526	e440	367	42	671	538	664	379	558	438
21	250	176	523	e439	366	42	642	545	722	292	552	426
22	250	176	538	e440	365	38	635	548	728	274	547	417
23	147	176	537	e439	366	38	625	554	708	264	584	407
24	96	176	537	e435	367	37	630	547	709	205	584	398
25	98	196	537	e400	366	35	634	562	723	193	579	387
26	97	537	537	e350	367	139	633	638	670	190	584	378
27	97	568	525	e340	394	290	622	667	627	190	589	367
28	97	573	516	e340	411	380	505	642	591	193	573	351
29	95	454	508	e339	---	380	492	499	552	193	563	332
30	97	296	504	e340	---	384	502	489	526	184	558	291
31	97	---	502	e340	---	386	---	481	---	182	552	---
TOTAL	4430	5961	15259	10618	9931	7557	16467	23873	15560	13714	16790	13654
MEAN	143	199	492	343	355	244	549	770	519	442	542	455
MAX	250	573	538	496	411	419	671	1260	728	680	633	547
MIN	72	92	288	40	339	35	390	481	296	182	227	291
ACFT	8790	11820	30270	21060	19700	14990	32660	47350	30860	27200	33300	27080
CAL YR 1984	TOTAL	152040	MEAN	415	MAX	1230	MIN	72	ACFT	301600		
WTR YR 1985	TOTAL	153814	MEAN	421	MAX	1260	MIN	35	ACFT	305100		

e Estimated.

SEVIER LAKE BASIN

313

10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UT

LOCATION.--Lat 38°34'45", long 112°17'22", in NW1/4NW1/4SW1/4 sec.31, T.25 S., R.4 W., Sevier County, Hydrologic Unit 16030003, on left bank at south side of State Highway 13, 1.8 mi west of Sevier, 2.3 mi upstream from mouth, and 17.2 mi southwest of Richfield.

DRAINAGE AREA.--164 mi².

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,680 ft from topographic map.

REMARKS.--Records poor. Small diversions for irrigation above station. Flow regulated by several small reservoirs, combined capacity about 1,000 acre-ft, at headwaters.

AVERAGE DISCHARGE.--28 years, 37.7 ft³/s, 27,310 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 769 ft³/s Apr. 29, 1973, gage height, 4.41 ft; minimum, 1.5 ft³/s Feb. 21, 1976, gage height, 0.85 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 450 ft³/s May 4; minimum daily, 7.0 ft³/s Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	24	22	e12	e7.0	e15	36	388	159	e64	29	e16
2	29	24	20	e11	e8.0	e18	57	400	147	e61	28	e16
3	31	23	21	e11	e9.6	e17	96	419	137	e59	28	e17
4	28	23	21	e10	e11	e14	111	450	134	e56	27	e17
5	24	22	20	e10	e8.0	e16	112	433	131	e54	25	e17
6	24	23	24	e11	e9.0	e20	122	393	148	e54	24	e17
7	24	23	16	e18	e8.6	e21	138	361	163	e53	23	e18
8	23	24	16	e18	e11	e19	138	341	177	e52	23	e19
9	23	24	16	e18	e12	e27	144	330	180	e51	23	e19
10	23	20	15	e17	e9.6	e34	146	346	164	e51	23	e20
11	24	25	15	e15	e8.8	e32	148	321	151	e51	22	23
12	32	23	15	e13	e11	e27	149	306	153	e50	22	26
13	29	23	13	e11	e12	e26	145	274	148	e49	22	23
14	34	23	12	e11	e14	25	144	241	150	e48	21	21
15	30	21	16	e12	e15	38	158	221	148	e47	20	20
16	29	23	13	e12	e15	29	163	215	141	e46	19	19
17	29	23	16	e12	e16	30	169	216	134	e45	19	19
18	29	20	10	e13	e17	30	182	223	131	e44	19	20
19	29	21	8.0	e14	e15	32	175	232	123	48	18	24
20	30	18	9.0	e15	e16	34	179	229	116	49	18	17
21	32	20	12	e13	e14	34	188	218	109	48	17	16
22	25	22	e8.6	e14	e13	29	196	207	102	45	17	15
23	24	22	e8.4	e13	e15	31	194	200	95	46	16	15
24	25	21	e8.8	e13	e14	40	209	204	97	41	15	14
25	26	21	e9.2	e12	e16	50	213	207	107	38	15	15
26	26	18	e10	e13	e15	47	209	212	90	36	30	15
27	26	21	e12	e15	e14	36	240	215	77	35	62	14
28	25	17	e15	e12	e14	17	377	207	73	34	e15	14
29	24	18	e13	e11	---	21	428	194	e70	33	e15	15
30	25	18	e12	e10	---	25	421	182	e68	32	e16	16
31	26	---	e13	e7.8	---	32	---	171	---	30	e16	---
TOTAL	832	648	440.0	397.8	348.6	866	5387	8556	3823	1450	687	537
MEAN	26.8	21.6	14.2	12.8	12.4	27.9	180	276	127	46.8	22.2	17.9
MAX	34	25	24	18	17	50	428	450	180	64	62	26
MIN	23	17	8.0	7.8	7.0	14	36	171	68	30	15	14
ACFT	1650	1290	873	789	691	1720	10690	16970	7580	2880	1360	1070
CAL YR 1984	TOTAL	35491.0	MEAN	97.0	MAX	633	MIN	8.0	ACFT	70400		
WTR YR 1985	TOTAL	23972.4	MEAN	65.7	MAX	450	MIN	7.0	ACFT	47550		

e Estimated.

SEVIER LAKE BASIN

10205000 SEVIER RIVER NEAR SIGURD, UT

LOCATION.--Lat 38°52'13", long 111°57'14", in SW1/4NE1/4SW1/4 sec.19, T.22 S., R.1 W., Sevier County, Hydrologic Unit 16030003, on left bank 200 ft downstream from county road bridge, 0.5 mi downstream from Rocky Ford Dam, 2.3 mi northeast of Sigurd, and 5.0 mi upstream from Lost Creek.

DRAINAGE AREA.--3,375 mi².

PERIOD OF RECORD.--July to September 1912, July 1914 to current year. Prior to October 1938, published as "near Vermillion."

REVISED RECORDS.--WSP 1394: 1927-28, 1947.

GAGE.--Water-stage recorder. Altitude of gage is 5,180 ft by barometer. July to September 1912, nonrecording gage 0.3 mi downstream at different datum. July 31, 1914 to Apr. 19, 1917, nonrecording gage and Apr. 20, 1917 to Oct. 16, 1935, water-stage recorder, at present site at datum 2.00 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by reservoirs above station. During irrigation season practically entire flow through Rocky Ford Dam is diverted above station for irrigation below station.

AVERAGE DISCHARGE.--71 years, 110 ft³/s, 79,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft³/s May 30, 1922, gage height, 6.1 ft, present datum, from rating curve extended above 600 ft³/s on basis of maximum discharge for other Sevier River stations; practically no flow (seepage only) at times when Rocky Ford Reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 928 ft³/s May 6, gage height, 4.35 ft; minimum, 10 ft³/s Aug. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	197	513	623	500	539	513	694	96	88	104	27
2	191	196	447	613	498	549	544	666	97	46	94	20
3	200	193	473	601	505	550	587	659	100	25	91	28
4	213	182	521	599	520	543	613	710	98	25	91	175
5	223	179	555	593	520	537	617	770	98	21	74	274
6	222	183	562	426	520	536	609	851	106	18	54	349
7	401	183	562	333	519	534	624	919	149	34	32	336
8	279	175	567	444	509	527	655	919	177	37	25	322
9	222	182	569	486	489	529	670	905	189	48	20	307
10	206	184	584	487	491	538	682	846	223	66	17	319
11	201	194	588	440	485	550	710	751	166	74	17	362
12	210	225	590	315	483	556	722	635	82	88	24	406
13	237	231	594	251	487	540	698	580	55	87	20	422
14	254	232	600	220	488	386	722	510	32	92	18	436
15	268	231	604	223	494	281	755	414	31	85	19	425
16	273	226	612	404	500	249	760	362	44	89	19	406
17	281	230	612	543	502	237	755	249	80	168	19	427
18	243	230	601	574	502	230	768	132	70	237	19	426
19	222	236	615	582	499	224	776	140	40	223	20	429
20	251	240	632	587	502	216	798	144	27	184	17	428
21	327	240	640	591	509	211	811	146	27	191	15	421
22	358	252	627	594	500	206	811	118	26	252	23	414
23	362	295	619	594	493	198	794	106	29	273	24	395
24	313	300	614	597	498	196	776	46	27	267	18	389
25	227	300	609	596	505	197	747	21	46	255	15	372
26	225	299	610	566	513	204	739	148	138	203	13	359
27	216	410	635	517	511	259	718	214	151	186	11	357
28	214	545	669	505	521	367	710	210	98	184	13	354
29	206	604	647	501	---	457	686	271	107	188	14	334
30	204	614	632	502	---	480	686	172	113	168	20	320
31	197	---	627	500	---	490	---	100	---	123	25	---
TOTAL	7634	7988	18330	15407	14063	12116	21056	13408	2722	4025	985	10039
MEAN	246	266	591	497	502	391	702	433	90.7	130	31.8	335
MAX	401	614	669	623	521	556	811	919	223	273	104	436
MIN	188	175	447	220	483	196	513	21	26	18	11	20
ACFT	15140	15840	36360	30560	27890	24030	41760	26590	5400	7980	1950	19910
CAL YR 1984	TOTAL	168083	MEAN	459	MAX	1300	MIN	22	ACFT	333400		
WTR YR 1985	TOTAL	127773	MEAN	350	MAX	919	MIN	11	ACFT	253400		

SEVIER LAKE BASIN

315

10205030 SALINA CREEK NEAR EMERY, UT

LOCATION.--Lat 38°54'43", long 111°31'47", In SE1/4SW1/4NW1/4 sec.12, T.22 S., R.3 E., Sevier County, Hydrologic Unit 16030003, on right bank, 2.5 mi upstream from Soil Conservation Service retention dam, 15.3 mi west of Emery, and 18.4 mi east of Salina.

DRAINAGE AREA.--51.8 mi².

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,000 ft from topographic map. Prior to June 9, 1971, at site 300 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion above station. Slight regulation from small reservoirs at headwaters.

AVERAGE DISCHARGE.--22 years, 20.3 ft³/s, 14,710 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 621 ft³/s May 27, 1983, gage height, 5.44 ft; minimum discharge, 0.80 ft³/s Nov. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 14	2100	96	3.53	May 4	2300	*138	*3.75

Minimum observed, 8.4 ft³/s Feb. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	17	e14	e14	e9.6	e11	15	80	58	22	19	15
2	26	18	e14	e14	e9.0	e10	21	92	55	21	18	15
3	28	18	e13	e13	e10	e9.8	27	101	53	21	18	15
4	23	17	e14	e14	e11	e9.2	32	107	51	21	18	15
5	22	17	e14	e14	e11	e9.6	28	113	48	21	17	15
6	22	18	e14	e14	e11	e10	35	106	47	21	17	15
7	21	18	e15	e14	e11	e11	42	102	46	21	17	15
8	20	18	15	e14	e12	11	45	103	45	21	17	15
9	20	17	15	14	e12	12	56	94	44	20	17	15
10	20	e14	15	17	e11	14	64	92	42	20	17	15
11	19	e17	14	14	e11	13	64	86	40	20	17	15
12	19	e17	e14	e14	e11	13	64	87	39	20	17	15
13	18	e17	e14	e13	e11	12	64	77	38	21	17	15
14	17	e17	e14	e13	e11	12	68	74	37	20	17	14
15	16	e15	e13	e14	12	13	70	72	36	20	16	14
16	16	e15	e14	e14	e11	13	71	70	35	20	16	14
17	16	e16	e14	e14	e11	13	67	69	34	20	16	14
18	15	e15	e14	14	e11	13	65	70	33	21	16	14
19	16	e15	e13	14	12	14	59	74	32	20	16	15
20	18	e15	e14	14	e11	14	56	79	32	21	16	14
21	17	e15	e13	14	e10	14	50	80	27	24	16	14
22	16	e15	e12	14	e10	14	47	80	25	22	16	14
23	18	e15	e14	e13	e10	13	47	77	25	23	16	14
24	17	e15	e14	e13	e11	15	50	76	26	20	15	14
25	17	e16	e14	e13	e11	19	49	76	28	20	15	14
26	17	e14	e14	13	e10	19	45	79	27	20	15	14
27	18	e14	e14	13	e10	15	50	78	25	19	15	14
28	18	e15	e15	e13	e11	15	58	75	24	19	15	14
29	18	e15	15	13	---	14	65	70	23	19	15	14
30	18	e15	16	e12	---	15	74	64	22	20	15	13
31	19	---	e15	e10	---	14	---	61	---	19	15	---
TOTAL	586	480	437	421	302.6	404.6	1548	2564	1097	637	507	433
MEAN	18.9	16.0	14.1	13.6	10.8	13.1	51.6	82.7	36.6	20.5	16.4	14.4
MAX	28	18	16	17	12	19	74	113	58	24	19	15
MIN	15	14	12	10	9.0	9.2	15	61	22	19	15	13
ACFT	1160	952	867	835	600	803	3070	5090	2180	1260	1010	859

CAL YR 1984	TOTAL	19450.8	MEAN	53.1	MAX	431	MIN	8.8	ACFT	38580
WTR YR 1985	TOTAL	9417.2	MEAN	25.8	MAX	113	MIN	9.0	ACFT	18680

e Estimated.

SEVIER LAKE BASIN

10206000 SALINA CREEK AT SALINA, UT

LOCATION.--Lat 38°57'24", long 111°51'58", in SW1/4NW1/4NW1/4 sec.25, T.21 S., R.1 W., Sevier County, Hydrologic Unit 16030003, on right bank 150 ft upstream from bridge on U.S. Highway 89 in Salina and 0.8 mi upstream from mouth.

DRAINAGE AREA.--292 mi².

PERIOD OF RECORD.--April to September 1914 (fragmentary), April 1915 to September 1916, October 1917 to September 1919, November 1942 to September 1955, water year 1960 (annual maximum), October 1960 to current year.

REVISED RECORDS.--WSP 1734: Drainage area. WSP 2127: 1953(M), 1960(M), 1965(M). WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,140 ft estimated on basis of nearby benchmark. Prior to Mar. 23, 1915, nonrecording gage at site 150 ft downstream at different datum. Mar. 23, 1915 to Oct. 16, 1917, nonrecording gage, and Oct. 17, 1917 to Sept. 30, 1919, water-stage recorder at site about 0.2 mi upstream at different datum.

REMARKS.--Records poor. Estimated daily discharges Dec. 24 to May 20 and July 22 to Aug. 15 due to bridge construction 150 ft. below the gage and channel work, both above and below the gage. Diversions above and below station for irrigation.

AVERAGE DISCHARGE.--40 years (water years 1916, 1918-19, 1944-55, 1961-85), 28.6 ft³/s, 20,720 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,650 ft³/s June 7, 1984, gage height, 8.32 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 350 ft³/s May 5; minimum daily, 1.1 ft³/s Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	52	39	e16	e13	e23	e58	e210	124	8.7	e4.6	1.7
2	60	50	37	e15	e12	e28	e62	e270	112	7.4	e4.5	2.1
3	105	52	31	e13	e14	e22	e70	e310	108	6.6	e4.5	2.1
4	39	50	37	e12	e15	e28	e74	e330	97	6.0	e4.4	2.6
5	33	51	34	e9.2	e14	e33	e69	e350	85	6.5	e4.3	1.8
6	35	53	42	e10	e16	e38	e78	e340	82	6.4	e4.3	1.1
7	34	50	46	e10	e21	e33	e83	e330	82	6.2	e4.2	1.3
8	34	49	15	e11	e30	e35	e88	e325	76	6.6	e4.2	1.2
9	36	50	10	e11	e27	e45	e98	e315	73	5.3	e3.9	1.7
10	43	35	9.6	e12	e23	e54	e102	e310	66	5.1	e3.7	1.4
11	44	52	7.9	e12	e19	e44	e103	e305	63	3.8	e3.5	1.4
12	51	52	7.8	e12	e23	e42	e107	302	61	2.5	e3.0	1.9
13	49	50	8.7	e12	e23	e39	e112	e300	56	3.6	e2.7	1.7
14	64	49	16	e11	e24	e41	e119	e296	49	2.4	e2.4	1.6
15	61	39	16	e11	e24	e50	e122	e291	43	1.8	e2.1	1.8
16	61	45	15	e11	e25	e44	e121	e285	39	1.6	1.9	2.3
17	84	46	13	e11	e25	e52	e120	e280	36	11	2.1	2.4
18	79	35	14	e10	e28	e58	e121	e277	34	18	2.6	3.2
19	94	33	12	e11	e27	e70	e121	e275	32	5.0	2.4	3.2
20	101	32	10	e12	e30	e64	e120	e272	34	3.2	2.9	1.9
21	114	38	9.9	e13	e28	e62	e117	230	28	22	2.8	2.0
22	88	44	10	e18	e23	e50	e108	232	17	e17	2.1	2.0
23	80	43	9.5	e16	e26	e60	e100	219	15	e19	1.2	2.4
24	70	38	e8.8	e15	e22	e78	e99	220	14	e6.0	1.3	2.1
25	56	43	e8.0	e14	e25	e96	e103	208	32	e4.9	2.2	2.9
26	45	26	e9.0	e17	e28	e89	e120	217	35	e4.6	2.1	3.3
27	55	38	e11	e20	e26	e82	e135	196	24	e4.7	1.7	7.4
28	49	48	e13	e16	e22	e78	e145	174	16	e4.7	1.5	7.6
29	54	43	e19	e18	---	e70	e160	150	11	e6.8	1.3	8.8
30	51	36	e18	e16	---	e50	e190	140	9.6	e5.6	1.3	9.2
31	52	---	e17	e15	---	e55	---	132	---	e5.0	2.2	---
TOTAL	1857	1322	554.2	410.2	633	1613	3225	8091	1553.6	218.0	87.9	86.1
MEAN	59.9	44.1	17.9	13.2	22.6	52.0	108	261	51.8	7.03	2.84	2.87
MAX	114	53	46	20	30	96	190	350	124	22	4.6	9.2
MIN	33	26	7.8	9.2	12	22	58	132	9.6	1.6	1.2	1.1
ACFT	3680	2620	1100	814	1260	3200	6400	16050	3080	432	174	171
CAL YR 1984	TOTAL	63473.2	MEAN	173	MAX	1620	MIN	7.8	ACFT	125900		
WTR YR 1985	TOTAL	19651.0	MEAN	53.8	MAX	350	MIN	1.1	ACFT	38980		

e Estimated.

SEVIER LAKE BASIN

317

10208500 OAK CREEK NEAR FAIRVIEW, UT

LOCATION.--Lat 39°40'26", long 111°24'30", in NW1/4NE1/4SW1/4 sec.19, T.13 S., R.5 E., Sanpete County, Hydrologic Unit 16030004, on right bank 2.1 mi upstream from mouth and 3.7 mi northeast of Fairview.

DRAINAGE AREA.--11.8 mi².

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,550 ft from topographic map. Prior to Nov. 16, 1983, at datum 10.0 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. No diversion or regulation above station.

AVERAGE DISCHARGE.--21 years, 12.7 ft³/s, 9,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,190 ft³/s May 30, 1983, gage height, 5.99 ft result of indirect measurement of peak flow; minimum, 0.78 ft³/s Nov. 29, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 25 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 18	1900	74	8.76	May 19	2000	106	8.91
May 7	2200	*271	*9.61				

Minimum, 1.8 ft³/s Mar. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	4.4	4.0	3.5	3.3	3.3	5.6	63	40	9.0	e5.6	3.1
2	6.6	4.5	3.9	3.3	3.4	3.3	6.8	82	37	8.7	e5.4	3.2
3	5.5	4.6	4.0	3.6	3.3	3.4	8.0	115	35	8.4	e5.2	3.2
4	4.4	4.6	3.6	3.7	3.2	3.4	8.0	159	31	8.0	e5.0	3.2
5	4.1	4.5	3.7	3.7	3.1	3.4	8.4	184	29	7.7	e5.0	3.2
6	4.0	4.6	3.7	3.8	3.1	3.4	10	173	26	7.4	e4.8	3.2
7	3.9	4.5	4.1	3.8	3.1	3.2	13	185	25	7.6	e4.7	3.2
8	4.0	4.6	3.9	3.7	3.1	3.2	16	175	23	7.3	e4.6	3.2
9	4.0	4.6	3.9	3.6	3.0	3.4	24	168	21	6.9	e4.5	3.1
10	4.0	4.5	3.8	3.5	2.9	4.4	27	158	20	6.7	e4.5	3.1
11	4.1	4.7	3.9	3.5	2.9	4.2	29	159	18	6.6	e4.4	4.8
12	6.4	4.5	3.9	3.1	3.0	3.8	31	98	17	6.5	e4.3	3.8
13	4.7	4.5	3.9	3.5	3.0	3.4	34	81	16	6.4	e4.2	3.4
14	4.7	4.5	3.6	3.5	3.0	3.6	39	76	16	6.3	e4.1	3.2
15	4.4	4.0	4.1	3.5	3.1	3.8	48	74	15	6.7	3.9	3.2
16	4.4	4.5	3.8	3.4	3.2	3.9	57	76	14	6.2	3.8	3.2
17	4.5	4.4	4.1	3.4	3.2	4.1	64	79	14	6.5	3.8	3.2
18	5.4	3.9	3.9	3.5	3.2	4.1	66	86	13	6.2	3.5	3.3
19	5.0	4.0	4.0	3.4	3.2	4.4	66	90	13	9.9	3.5	4.3
20	4.9	3.9	4.0	3.5	3.3	4.8	61	91	13	11	3.5	3.6
21	4.6	4.2	4.0	3.6	3.2	4.8	55	89	12	10	3.5	3.5
22	4.3	4.0	3.8	3.5	3.2	4.7	48	87	11	13	3.5	3.6
23	4.3	3.9	3.7	3.4	3.2	4.8	42	83	11	11	3.3	3.5
24	4.4	4.0	3.7	3.5	3.2	5.2	40	80	12	12	3.3	3.6
25	4.3	4.1	3.7	3.4	3.2	5.8	39	78	15	11	3.3	3.6
26	4.4	3.9	3.7	3.5	3.1	5.7	36	73	12	e9.0	3.3	3.5
27	4.6	4.0	4.0	3.5	3.3	5.6	35	67	11	e7.0	3.3	3.6
28	4.4	4.2	3.9	3.5	3.2	5.5	37	60	10	e6.4	3.3	3.8
29	4.5	4.1	3.8	3.6	---	5.3	42	54	9.7	e6.0	3.2	3.6
30	4.5	4.0	3.7	3.5	---	5.1	50	48	9.4	e6.0	3.2	3.9
31	4.8	---	3.6	3.3	---	5.2	---	44	---	e5.6	3.2	---
TOTAL	142.8	128.7	119.4	108.8	88.2	132.2	1045.8	3135	549.1	247.0	124.7	103.9
MEAN	4.61	4.29	3.85	3.51	3.15	4.26	34.9	101	18.3	7.97	4.02	3.46
MAX	6.6	4.7	4.1	3.8	3.4	5.8	66	185	40	13	5.6	4.8
MIN	3.9	3.9	3.6	3.1	2.9	3.2	5.6	44	9.4	5.6	3.2	3.1
ACFT	283	255	237	216	175	262	2070	6220	1090	490	247	206

CAL YR 1984	TOTAL	8623.1	MEAN	23.6	MAX	295	MIN	2.9	ACFT	17100
WTR YR 1985	TOTAL	5925.6	MEAN	16.2	MAX	185	MIN	2.9	ACFT	11750

e Estimated.

SEVIER LAKE BASIN

10215700 OAK CREEK NEAR SPRING CITY, UT

LOCATION.--Lat 39°26'52", long 111°25'29", in SW1/4SE1/4SW1/4, sec.1, T.16 S., R.4 E., Sanpete County, on right bank about 400 ft upstream from powerplant diversion, 0.8 mi downstream from South Fork, and 4.5 mi southeast of Spring City.

DRAINAGE AREA.--8.35 mi².

PERIOD OF RECORD.--October 1964 to September 1974, June 1979 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,400 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversion above station. Flow includes discharge of Spring City tunnel (transmountain diversion from Colorado River Basin).

AVERAGE DISCHARGE.--16 years, 11.8 ft³/s, 8,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 300 ft³/s July 23, 1965, gage height, 3.75 ft from floodmark, from rating curve extended above 75 ft³/s; minimum, 0.93 ft³/s Mar. 6, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 7	2100	43	2.06	June 9	1800	*91	*2.56

Minimum daily, 3.9 ft³/s Mar. 4-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	7.5	6.2	5.4	e4.7	4.1	4.9	22	56	20	9.0	6.7
2	8.3	7.5	6.2	e5.0	e4.8	4.2	5.3	26	55	18	8.6	6.8
3	8.2	7.6	6.2	5.4	e4.7	4.1	5.6	28	54	18	8.5	6.7
4	8.6	7.6	6.2	5.3	e4.6	e3.9	5.4	31	55	17	8.4	6.7
5	9.0	7.5	5.9	5.2	e4.5	3.9	5.2	36	56	16	8.1	6.4
6	9.4	7.4	5.9	5.3	e4.4	3.9	5.6	39	62	16	8.0	6.4
7	9.6	7.3	5.9	5.3	e4.4	4.0	5.9	40	67	16	7.8	6.6
8	9.1	7.1	6.0	5.3	e4.4	4.1	6.3	38	68	16	8.0	6.5
9	9.2	6.5	6.2	5.3	e4.3	4.2	7.6	37	73	15	7.7	6.4
10	9.5	7.1	6.2	5.3	e4.2	4.5	8.0	36	68	14	7.6	6.4
11	9.5	7.1	6.1	5.1	e4.2	4.5	8.3	36	65	13	7.7	8.6
12	8.9	7.1	5.9	e4.8	e4.3	4.6	8.9	36	58	13	7.2	6.7
13	8.6	7.0	6.0	5.4	e4.4	4.4	9.8	35	57	13	7.0	6.0
14	7.9	7.0	e5.6	5.2	e4.6	4.4	11	35	56	13	7.2	5.9
15	8.6	6.8	5.9	5.1	e4.8	4.5	14	36	56	12	7.4	5.9
16	8.6	6.6	5.9	4.9	e4.8	4.6	15	36	54	12	7.3	5.6
17	8.4	6.7	5.7	4.9	e4.8	4.6	16	36	52	12	7.3	5.6
18	8.3	6.7	5.6	4.9	e4.8	4.6	16	37	50	13	7.3	6.0
19	8.1	6.5	5.3	4.8	e4.8	4.9	16	39	47	12	7.3	6.7
20	8.1	6.3	5.8	4.8	e4.9	4.9	15	41	44	14	7.0	6.0
21	8.3	6.4	5.8	4.8	e4.7	4.9	15	45	43	14	7.0	5.9
22	8.1	6.4	5.8	4.8	e4.5	e4.7	14	45	39	12	7.0	5.9
23	8.2	6.4	5.6	4.8	e4.5	4.8	14	47	35	12	7.0	5.9
24	8.2	6.4	5.6	4.8	e4.5	5.0	14	48	34	11	7.0	5.9
25	8.3	6.2	5.6	4.8	e4.5	5.3	14	48	34	10	7.0	5.9
26	8.3	6.2	5.6	4.8	e4.3	5.2	14	52	29	9.9	7.0	5.9
27	8.1	e6.0	5.6	4.8	e4.1	5.1	15	58	26	9.7	7.0	5.9
28	8.1	6.2	5.6	4.8	4.0	5.1	16	56	24	9.7	6.9	5.9
29	8.2	6.2	5.6	4.8	---	4.9	19	54	22	9.3	6.7	5.9
30	7.9	6.2	5.6	e4.7	---	4.8	20	59	22	9.2	6.7	5.9
31	7.5	---	5.3	e4.6	---	4.8	---	59	---	9.0	6.7	---
TOTAL	263.6	203.5	180.4	155.2	126.5	141.5	344.8	1271	1461	408.8	230.4	187.6
MEAN	8.50	6.78	5.82	5.01	4.52	4.56	11.5	41.0	48.7	13.2	7.43	6.25
MAX	9.6	7.6	6.2	5.4	4.9	5.3	20	59	73	20	9.0	8.6
MIN	7.5	6.0	5.3	4.6	4.0	3.9	4.9	22	22	9.0	6.7	5.6
ACFT	523	404	358	308	251	281	684	2520	2900	811	457	372

CAL YR 1984	TOTAL	7475.8	MEAN	20.4	MAX	145	MIN	4.4	ACFT	14830
WTR YR 1985	TOTAL	4974.3	MEAN	13.6	MAX	73	MIN	3.9	ACFT	9870

e Estimated.

SEVIER LAKE BASIN

319

10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT

LOCATION.--Lat 39°15'33", long 111°34'45", in NE1/4SE1/4SE1/4 sec.9, T.18 S., R.3 E., Sanpete County, Hydrologic Unit 16030004, on right bank 200 ft downstream from a side road bridge 0.6 mi upstream from upper powerplant, 2.3 mi east of cattle guard at Manti-LaSal forest boundary, and 3.5 mi east of Manti.

DRAINAGE AREA.--26.4 mi².

PERIOD OF RECORD.--October 1964 to September 1974; October 1978 to current year.

REVISED RECORDS.--WRD UT-81-1: 1979, 1980(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Records do not include flow diverted around station in an 8-inch pipeline, for culinary water for the city of Manti, and generation of power at the upper powerplant. Records include flow of a small transmountain diversion from San Rafael River basin.

AVERAGE DISCHARGE.--17 years, 33.8 ft³/s, 24,490 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 682 ft³/s June 9, 1973, gage height, 2.93 ft; minimum, 0.9 ft³/s Nov. 3, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 8	unknown	*272	2.62	July 21	0300	about 77	1.61

Minimum daily, 4.1 ft³/s Dec. 22, 23, Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	14	e12	e4.8	e4.1	e6.0	12	124	151	e42	e18	9.5
2	23	14	e11	e4.7	e5.2	6.5	19	109	149	e40	e18	9.9
3	25	14	e11	e4.7	e5.5	6.2	22	102	145	e38	18	9.4
4	20	13	e10	e4.8	e5.6	e6.0	18	101	157	e37	17	9.2
5	18	13	e10	e5.0	e6.0	e6.0	19	99	163	e35	17	9.3
6	17	13	e11	e5.2	e6.3	6.4	23	107	180	e34	17	9.7
7	16	13	e12	e6.6	e6.6	6.6	29	117	189	e33	16	9.2
8	16	13	e12	e6.4	e6.9	6.3	45	126	191	e32	13	9.4
9	16	13	e12	e5.8	e6.4	7.0	50	124	181	e31	13	8.8
10	15	e13	e12	e5.2	e5.9	8.8	60	e140	172	e30	13	12
11	15	14	e11	e4.9	e5.8	8.6	73	e150	146	e29	13	10
12	18	13	e10	e4.9	e5.9	7.6	85	e150	133	e29	13	9.8
13	17	13	e9.5	e4.9	e6.0	e7.7	77	e147	122	e28	13	9.5
14	19	13	e9.2	e5.1	e6.2	e7.7	58	e132	113	e27	12	9.5
15	16	e13	e9.0	e5.2	e6.4	8.1	48	e130	104	e27	12	9.5
16	16	13	e8.7	e5.2	e6.4	8.7	59	e130	96	e27	11	9.1
17	15	13	e8.6	e5.3	e6.3	8.8	71	e136	92	e27	13	10
18	17	12	e8.4	e5.3	6.1	9.2	78	e139	85	e29	12	10
19	17	e12	e7.2	e5.4	5.9	9.6	84	e130	78	e32	11	10
20	16	e12	e5.4	e5.5	5.8	9.7	99	e132	75	e34	11	9.7
21	16	13	e4.8	e5.6	5.5	9.2	135	135	71	e36	11	9.3
22	15	12	e4.1	e5.7	5.3	9.8	147	138	68	e34	11	9.2
23	e15	11	e4.1	e5.8	5.1	10	166	145	65	e32	11	9.0
24	e16	11	e4.2	e5.8	e5.2	12	166	151	61	e30	10	9.0
25	15	11	e4.4	e5.9	6.1	12	160	154	68	e25	10	8.9
26	15	e10	e5.2	e6.0	e5.8	11	171	168	65	e23	10	8.6
27	15	e10	e6.4	e5.6	e5.8	9.6	173	182	e60	e22	10	8.5
28	15	e11	e5.9	e5.3	e5.8	10	178	189	e52	e21	9.9	8.3
29	15	e12	e5.4	e5.0	---	9.8	156	182	e49	e21	9.5	8.3
30	15	e12	e5.3	e4.8	---	9.5	142	167	e46	e20	9.3	8.4
31	15	---	e5.0	e4.5	---	9.1	---	156	---	e19	10	---
TOTAL	520	374	254.8	164.9	163.9	263.5	2623	4292	3327	924	392.7	280.8
MEAN	16.8	12.5	8.22	5.32	5.85	8.50	87.4	138	111	29.8	12.7	9.36
MAX	25	14	12	6.6	6.9	12	178	189	191	42	18	12
MIN	15	10	4.1	4.5	4.1	6.0	12	99	46	19	9.3	8.3
ACFT	1030	742	505	327	325	523	5200	8510	6600	1830	779	557

CAL YR 1984	TOTAL	22227.8	MEAN	60.7	MAX	444	MIN	4.1	ACFT	44090
WTR YR 1985	TOTAL	13580.6	MEAN	37.2	MAX	191	MIN	4.1	ACFT	26940

e Estimated.

SEVIER LAKE BASIN

10217000 SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UT

LOCATION.--Lat 39°09'19", long 111°52'37", in NE1/4NE1/4SE1/4 sec.14, T.19 S., R.1 W., Sanpete County, Hydrologic Unit 16030003, on left bank 1,000 ft downstream from San Pitch River and 3.2 mi west of Gunnison.

DRAINAGE AREA.--4,921 mi².

PERIOD OF RECORD.--March 1912 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,025 ft from topographic map. Prior to Oct. 28, 1938, at same site at datum 0.36 ft higher.

REMARKS.--Records poor. Flow regulated by reservoirs and many diversions for irrigation above station. Most of flow diverted above station during irrigation season.

AVERAGE DISCHARGE.--73 years, 261 ft³/s, 189,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,400 ft³/s May 29, 1984; minimum, 5.6 ft³/s July 17-21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,100 ft³/s May 10-12; minimum daily, 80 ft³/s Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	353	691	988	e880	e880	1060	e980	e1910	e800	212	241	82
2	395	671	919	e865	e890	1060	1000	e1920	e710	192	210	81
3	487	655	855	e840	e900	1050	1150	e1930	e640	155	206	80
4	494	638	872	e830	e910	1060	e1150	e1970	e610	144	205	89
5	486	596	880	e825	e920	1040	e1190	e2000	e600	177	205	232
6	488	565	880	e800	e950	1030	e1200	e2020	e600	148	204	318
7	500	660	880	e720	e960	1040	e1210	e2050	e595	131	180	389
8	666	642	880	e655	e960	1040	e1220	e2090	e595	133	151	395
9	545	631	880	e790	e950	1030	e1230	e2090	590	134	148	387
10	519	640	880	e820	e945	1020	e1550	e2100	570	140	146	383
11	498	658	880	e835	e940	1010	e1550	e2100	565	157	143	419
12	516	678	880	e820	e960	1000	e1550	e2100	550	175	142	460
13	547	702	880	e800	e960	980	e1600	e2090	526	183	141	504
14	605	728	878	e700	e980	957	e1640	e2050	510	185	129	508
15	639	734	e875	e600	e985	795	e1650	e2030	442	187	112	538
16	686	717	e878	e595	e990	766	e1680	e2020	452	174	109	527
17	738	729	e880	e700	e995	780	e1690	e2000	388	184	105	509
18	772	719	e885	e800	e1000	e730	e1700	e1960	342	346	111	520
19	765	637	e890	e805	e1010	e690	e1720	e1750	299	380	110	533
20	763	650	e910	e830	e1020	e680	e1760	e1420	235	382	107	544
21	830	720	e920	e830	e1030	e675	e1810	e1410	211	395	106	555
22	894	712	e910	e840	e1040	670	e1860	e1400	189	525	103	539
23	886	707	e890	e845	e1060	633	e1880	e1390	168	523	105	529
24	631	726	e865	e855	e1050	585	e1890	e1380	162	507	104	517
25	825	732	e870	e850	e1060	e585	e1870	e1380	185	446	99	515
26	828	720	e880	e855	e1080	e590	e1870	e1350	242	406	96	514
27	788	706	e900	e850	e1080	e640	e1870	e1340	312	352	94	492
28	762	871	e910	e845	e1070	e800	e1880	e1300	280	349	91	482
29	771	987	e920	e850	---	e920	e1900	e1250	230	346	89	476
30	720	989	e910	e850	---	e960	e1910	e1050	212	349	86	454
31	716	---	e890	e860	---	e980	---	e920	---	317	84	---
TOTAL	20113	21211	27615	24840	27575	26836	47160	53770	12810	8434	4162	12571
MEAN	649	707	891	801	985	866	1572	1735	427	272	134	419
MAX	894	989	988	880	1080	1060	1910	2100	800	525	241	555
MIN	353	565	855	595	880	585	980	920	162	131	84	80
ACFT	39890	42070	54770	49270	54700	53230	93540	106700	25410	16730	8260	24930
CAL YR 1984	TOTAL	482728	MEAN	1319	MAX	5400	MIN	173	ACFT	957500		
WTR YR 1985	TOTAL	287097	MEAN	787	MAX	2100	MIN	80	ACFT	569500		

e Estimated.

SEVIER LAKE BASIN

321

10218500 SEVIER BRIDGE RESERVOIR NEAR JUAB, UT

LOCATION.--Lat 39°22'20", long 112°01'57", in NW1/4NW1/4 sec.1, T.17 S., R.2 W., Juab County, Hydrologic Unit 16030003, at Sevier Bridge Dam on Sevier River, 9.0 mi northeast of Scipio.

DRAINAGE AREA.--5,155 mi².

PERIOD OF RECORD.--January 1914 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Staff gage below gage height 60 ft and wire-weight gage above, at left end of dam, read once daily. Datum of gage is 4,937.51 ft NGVD of 1929.

REMARKS.--Reservoir was formed by a 30-ft earthfill dam. Storage began about 1904. Dam ultimately raised to 90 ft by June 1916. Capacity, 236,000 acre-ft between gage heights 6.0 ft (approximate bottom of outlet tunnel) and 80.0 ft (top of flashboard on spillway). No dead storage. Water is used for irrigation. Revised capacity table, based on Soil Conservation Service survey in 1961, used since Oct. 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 271,600 acre-ft June 21-24, 1983; gage height, 85.0 ft; no storage at times in 1927-28, 1930-36, 1951, 1960-61.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 231,900 acre-ft May 12, 14, 16, 17, June 12-14, gage height, 79.6 ft; minimum contents observed, 112,900 acre-ft Oct. 1, gage height, 64.6 ft.

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

64	109,800	72	161,300
65	114,900	75	186,500
68	132,600	78	215,100
70	146,200	80	236,150

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112900	125700	155100	201400	210100	216100	209100	224400	228600	213100	197600	161300
2	113400	126300	157500	201400	210100	216100	209100	224400	228600	212100	196600	160600
3	113400	125700	159000	202300	210100	216100	209100	225400	228600	211100	195700	159800
4	113900	126300	160600	202300	210100	216100	209100	224400	229700	209100	194700	159800
5	114400	126300	162900	202300	210100	216100	210100	225400	229700	208100	194700	159000
6	114900	126300	164600	203300	210100	216100	210100	227600	229700	206200	193800	159000
7	115500	126300	166200	203300	210100	216100	211100	228600	229700	204200	192900	159800
8	116000	126300	168600	203300	210100	216100	211100	228600	228600	202300	192000	159800
9	116000	126300	171100	203300	210100	217200	212100	228600	228600	200400	189300	159800
10	116000	126900	172700	204200	210100	217200	212100	228600	229700	199500	188400	160600
11	116600	126900	175300	204200	211100	217200	212100	230800	230800	198500	185700	160600
12	117100	126900	176900	204200	211100	217200	213100	231900	231900	198500	184800	161300
13	117100	126900	178700	204200	211100	218200	214100	230800	231900	197600	183000	162100
14	117700	126900	181300	204200	211100	218200	215100	231900	231900	197600	180400	162900
15	117700	128800	183900	204200	211100	217200	216100	230800	230800	196600	177800	163700
16	117700	130700	184800	203300	211100	217200	216100	231900	230800	196600	175300	164600
17	117700	131900	185700	203300	211100	217200	217200	231900	228600	196600	173600	165400
18	118800	133200	187500	203300	212100	217200	217200	230800	227600	196600	172700	166200
19	119300	134600	188400	204200	212100	216100	218200	229700	226500	196600	171900	167000
20	119900	136500	190200	204200	213100	216100	219200	228600	225430	196600	171100	167800
21	120400	137900	192000	205200	214100	216100	220300	227600	223400	196600	169400	169400
22	121600	139200	192900	206200	215100	215100	221300	227600	222300	197600	169400	170200
23	121600	141300	192900	206200	215100	214100	222300	227600	221300	197600	167800	171100
24	122200	142700	193800	207100	215100	214100	222300	227600	219200	198500	167000	171900
25	122800	144100	193800	207100	216100	213100	222300	227600	216100	199500	167000	172700
26	123400	145500	194700	208100	216100	212100	222300	227600	217200	199500	164600	174400
27	123900	147700	195700	208100	217200	212100	223400	228600	217200	198500	163700	175300
28	124500	149200	197600	209100	217200	212100	223400	227600	217200	198500	163700	176100
29	125100	151400	198500	209100	---	210100	223400	227600	214100	198500	163700	177800
30	125100	153600	199500	210100	---	210100	225400	227600	214100	198500	162900	177800
31	125100	---	200400	210100	---	209100	---	227600	---	197600	162100	---
MAX	125100	153600	200400	210100	217200	218200	225400	231900	231900	213100	197600	177800
MIN	112900	125700	155100	201400	210100	209100	209100	224400	214100	196600	162100	159000
(#)	66.8	71.0	76.5	77.5	78.2	77.4	79.0	79.2	77.9	76.2	72.1	74.0
(*)	+12200	+28500	+46800	+9700	+7100	-8100	+16300	+2200	-13500	-16500	-35500	+15700

CAL YR 1984 (*) -27200

WTR YR 1985 (*) +64900

- (a) No gage reading, contents interpolated.
 (#) Gage height, in feet, at end of month.
 (*) Change in contents, in acre-feet.

SEVIER LAKE BASIN

10219000 SEVIER RIVER NEAR JUAB, UT

LOCATION.--Lat 39°22'29", long 112°02'20", in SE1/4SW1/4SE1/4 sec.35, T.16 S., R.2 W., Juab County, Hydrologic Unit 16030005, on right bank 0.5 mi downstream from Sevier Bridge Dam and 11.6 mi southwest of Juab.

DRAINAGE AREA.--5,165 mi².

PERIOD OF RECORD.--September 1911 to current year.

GAGE.--Water-stage recorder and rubble masonry control since Apr. 16, 1914. Altitude of gage is 4,940 ft by barometer. Prior to Apr. 16, 1914, staff gage 500 ft upstream at different datum. Apr. 16, 1914 to Apr. 7, 1938, water-stage recorder at present site and datum. Apr. 8, 1938 to Mar. 31, 1942, water-stage recorder at site 1,300 ft upstream at different datum. Apr. 1, 1942 to July 15, 1961, water-stage recorder on left bank same site and datum.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Sevier Bridge Reservoir (see station 10218500).

AVERAGE DISCHARGE.--74 years, 260 ft³/s, 188,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,190 ft³/s June 25, 1983, gage height, 10.90 ft; practically no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,100 ft³/s May 12, gage height, 5.98 ft; minimum daily, 11 ft³/s Nov. 28, Dec. 8-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	370	656	23	643	723	939	1110	1820	694	551	484	345
2	372	654	21	685	723	1070	1110	1830	694	624	480	347
3	372	660	21	768	722	1080	1110	1630	612	844	480	346
4	371	659	21	768	720	1080	1110	1640	575	817	480	345
5	386	660	21	768	717	1090	1120	1680	664	794	480	251
6	413	659	17	769	716	1090	1140	1730	664	855	572	187
7	412	660	14	772	713	1090	1140	1980	664	906	783	187
8	410	660	11	773	712	1090	1150	1970	656	894	783	187
9	410	661	11	774	712	1090	1160	1990	442	851	786	187
10	410	660	11	775	711	1110	1180	2020	326	712	790	186
11	410	662	11	776	709	1110	1200	2050	333	431	794	186
12	479	661	11	776	710	1120	1210	2070	512	285	790	186
13	507	662	11	775	712	1200	1240	2070	628	250	790	185
14	509	465	11	773	714	1290	1260	1900	712	236	779	185
15	509	43	188	771	716	1290	1280	1890	775	230	779	185
16	506	34	337	767	716	1300	1300	1890	832	224	771	185
17	511	32	336	728	716	1290	1310	1880	813	218	778	172
18	510	30	336	680	725	1290	1320	1840	794	212	779	79
19	538	30	337	682	735	1280	1340	1630	775	212	694	79
20	553	30	339	683	747	1280	1350	1590	756	209	493	47
21	554	30	441	689	755	1270	1360	1470	824	203	491	16
22	564	30	508	692	800	1260	1370	1280	914	200	491	16
23	588	30	505	695	878	1250	1380	1280	879	197	489	16
24	589	30	505	698	882	1230	1620	1110	836	256	487	16
25	589	32	505	704	892	1220	1730	836	537	323	488	16
26	588	28	506	709	899	1100	1750	836	368	323	426	16
27	611	17	509	711	903	1020	1760	836	350	323	345	16
28	624	11	532	711	901	1000	1780	840	660	323	344	16
29	623	21	636	717	---	1020	1790	840	702	319	344	16
30	639	21	639	723	---	1120	1810	749	572	354	344	16
31	656	---	641	723	---	1110	---	691	---	480	343	---
TOTAL	15583	9488	8015	22678	21279	35779	40490	47868	19563	13656	18157	4217
MEAN	503	316	259	732	760	1154	1350	1544	652	441	586	141
MAX	656	662	641	776	903	1300	1810	2070	914	906	794	347
MIN	370	11	11	643	709	939	1110	691	326	197	343	16
ACFT	30910	18820	15900	44980	42210	70970	80310	94950	38800	27090	36010	8360
CAL YR 1984	TOTAL	500073	MEAN	1366	MAX	4570	MIN	11	ACFT	991900		
WTR YR 1985	TOTAL	256773	MEAN	703	MAX	2070	MIN	11	ACFT	509300		

SEVIER LAKE BASIN

323

10219200 CHICKEN CREEK NEAR LEVAN, UT

LOCATION.--Lat 39°33'08", long 111°49'45", in NW1/4NE1/4SW1/4 sec.33, T.14 S., R.1 E., Juab County, Hydrologic Unit 16030005, on right bank 370 ft downstream from county road bridge, just upstream from diversion structure, 0.4 mi upstream from mouth of canyon, and 1.9 mi east of Levan.

DRAINAGE AREA.--27.9 mi².

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft from topographic map. Prior to Jan. 18, 1978 at site 250 ft upstream at different datum.

REMARKS.--Records poor. Due to changes in irrigation diversion downstream of orifice and heavy channel construction, a reliable stage-discharge relationship could not be maintained.

AVERAGE DISCHARGE.--23 years, 9.48 ft³/s, 6,870 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 390 ft³/s Sept. 8, 1981, gage height, 5.70 ft, from rating curve extended above 250 ft³/s on basis of velocity-area study; no flow Feb. 11, 14, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 15 ft³/s not determined. Maximum daily discharge, 65 ft³/s May 10; minimum daily discharge 1.2 ft³/s Aug. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	4.9	4.9	4.5	3.5	e4.6	e11	35	e18	e11	9.1	1.9
2	12	5.3	4.6	4.1	3.6	e4.9	13	40	e18	e9.9	8.3	2.9
3	8.6	5.4	4.5	4.1	4.0	e5.5	19	42	e19	e9.2	7.4	3.9
4	7.9	5.0	4.7	3.7	4.0	e6.0	23	42	e20	e8.6	5.7	3.5
5	6.5	4.9	4.6	3.7	3.7	e5.6	22	39	e22	e8.2	4.8	2.0
6	6.4	5.1	4.4	3.8	3.8	e5.4	28	36	e26	e8.0	5.5	e1.5
7	5.8	5.1	4.6	3.8	3.8	e5.4	33	34	e31	e8.2	6.1	e1.5
8	5.0	5.9	4.5	4.1	3.8	e5.4	39	26	34	e8.2	6.3	e1.3
9	4.7	6.4	4.3	4.1	3.9	e5.9	48	24	36	e7.8	5.2	e1.6
10	4.5	e5.1	4.3	4.0	3.7	e7.0	55	44	40	e7.5	3.9	2.0
11	4.4	e4.8	4.3	4.0	3.7	e6.6	e57	53	36	e7.3	4.0	3.5
12	4.1	e5.6	4.6	3.9	3.9	e6.2	e47	e56	43	e7.2	4.3	2.1
13	3.5	e6.4	4.6	3.8	4.0	e6.4	e40	e59	42	9.4	3.7	3.4
14	3.7	e5.4	4.1	3.7	4.1	e6.8	e31	e62	e40	9.8	5.3	3.7
15	3.4	e4.6	3.9	3.9	4.3	e6.8	e28	e65	e37	7.4	3.4	4.2
16	3.2	e5.6	4.4	3.9	4.5	e7.0	e26	e63	e32	11	3.7	4.4
17	3.6	e4.4	4.3	3.8	4.5	e7.4	25	e61	e27	13	1.2	4.5
18	3.7	e4.0	4.5	3.8	e4.3	e7.8	24	e60	e25	9.3	1.3	4.3
19	3.8	e4.5	4.6	3.8	e4.2	e8.0	26	e59	e23	7.5	1.9	3.2
20	3.9	e4.8	5.4	3.8	e4.2	e8.0	24	53	e22	8.6	1.9	2.3
21	4.6	4.8	5.4	3.9	e4.2	e8.0	22	42	e19	11	2.3	3.1
22	4.3	4.4	4.7	4.0	e4.0	e8.1	20	22	e18	10	3.3	4.0
23	4.5	4.7	4.3	3.8	e4.0	e8.6	18	e20	e17	9.0	3.4	4.2
24	4.5	4.9	4.2	3.8	e4.0	e9.2	17	e18	e16	7.2	3.6	4.3
25	3.9	5.3	4.1	3.9	e4.0	e9.0	18	e17	e15	5.8	3.7	4.2
26	4.3	4.7	4.7	4.0	e4.0	e8.6	20	e17	e14	5.8	3.6	4.2
27	5.1	4.3	5.1	4.0	e4.1	e8.3	20	e17	e14	7.2	2.9	4.3
28	3.8	4.8	5.0	4.0	e4.4	e8.1	18	e18	e13	8.1	3.4	4.3
29	4.3	5.0	4.9	3.9	---	e7.8	18	e17	e13	7.1	2.8	4.3
30	4.6	4.8	4.7	3.8	---	e8.1	24	e16	e12	7.1	2.8	3.2
31	4.9	---	4.5	3.8	---	e9.0	---	e17	---	7.4	2.5	---
TOTAL	157.3	150.9	141.7	121.2	112.2	219.5	814	1174	742	262.8	127.3	97.8
MEAN	5.07	5.03	4.57	3.91	4.01	7.08	27.1	37.9	24.7	8.48	4.11	3.26
MAX	12	6.4	5.4	4.5	4.5	9.2	57	65	43	13	9.1	4.5
MIN	3.2	4.0	3.9	3.7	3.5	4.6	11	16	12	5.8	1.2	1.3
ACFT	312	299	281	240	223	435	1610	2330	1470	521	252	194
CAL YR 1984	TOTAL 14855.6		MEAN 40.6		MAX 379		MIN 3.2		ACFT 29470			
WTR YR 1985	TOTAL 4120.7		MEAN 11.3		MAX 65		MIN 1.2		ACFT 8170			

e Estimated.

SEVIER LAKE BASIN

10224000 SEVIER RIVER NEAR LYNNDYL, UT

LOCATION.--Lat 39°28'55", long 112°23'35", in NW1/4NE1/4SE1/4 sec.27, T.15 S., R.5 W., Millard County, Hydrologic Unit 16030005, on right bank 1.6 mi downstream from highway bridge and 3.5 mi southwest of Lynndyl.

DRAINAGE AREA.--5,966 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1914 to October 1919, October 1942 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 4,660 ft by barometer.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Sevier Bridge Reservoir about 35 mi upstream (see station 10218500). Several diversions for irrigation between reservoir and station.

AVERAGE DISCHARGE.--48 years, 245 ft³/s, 177,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,020 ft³/s June 15-17, 1983; minimum, 2.4 ft³/s Jan. 26, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,820 ft³/s May 14, gage height, 9.61 ft; minimum daily, 46 ft³/s Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	401	728	168	e710	e720	e912	1230	1600	982	491	362	221
2	401	739	165	e720	e640	e927	1240	1620	980	468	386	227
3	401	744	164	e740	e560	1210	1240	1630	978	474	388	233
4	399	749	162	818	e620	1230	1220	1630	732	676	394	221
5	368	749	159	838	e762	1210	1210	1580	517	641	394	213
6	346	751	160	840	e859	1210	1210	1530	568	606	379	201
7	355	751	158	841	e848	1220	1210	1500	571	626	382	116
8	367	753	156	853	e783	1230	1220	1560	567	688	588	109
9	368	755	156	864	e734	1230	1230	1640	550	675	627	118
10	371	756	156	863	e730	1230	1240	1690	372	650	645	115
11	369	757	155	861	e730	1280	1230	1720	302	550	673	112
12	384	759	155	856	e730	1340	1220	1740	241	434	698	123
13	407	762	162	853	e732	1320	1230	1810	340	230	702	121
14	451	762	159	848	e737	1310	1240	1810	408	193	701	122
15	475	721	147	846	e739	1430	1250	1730	496	186	703	121
16	474	319	196	835	e746	1460	1250	1670	539	184	698	123
17	475	239	444	833	e762	1470	1260	1660	600	185	680	138
18	576	211	451	816	e769	1470	1270	1670	640	189	665	140
19	588	157	456	771	e775	1470	1280	1650	627	203	665	140
20	600	167	464	768	e805	1450	1290	1520	595	209	646	108
21	624	167	469	768	e863	1430	1300	1430	577	234	437	102
22	626	166	498	771	e819	1400	1330	1350	595	247	395	88
23	628	165	e580	776	e809	1380	1370	1130	691	226	373	62
24	662	207	e580	778	e891	1370	1370	1080	677	219	358	55
25	669	185	e580	787	e909	1370	1370	1060	675	220	356	55
26	674	179	e580	791	e919	1350	1440	996	516	291	355	54
27	705	168	e580	796	e917	1310	1490	993	328	309	348	53
28	705	166	e580	798	e913	1190	1540	991	317	312	267	49
29	710	168	e600	806	---	1160	1570	990	447	310	237	46
30	715	167	e660	807	---	1130	1580	987	618	298	217	46
31	716	---	e690	798	---	1210	---	984	---	277	220	---
TOTAL	16010	14067	10790	25050	21821	39909	39130	44951	17046	11501	14939	3632
MEAN	516	469	348	808	779	1287	1304	1450	568	371	482	121
MAX	716	762	690	864	919	1470	1580	1810	982	688	703	233
MIN	346	157	147	710	560	912	1210	984	241	184	217	46
ACFT	31760	27900	21400	49690	43280	79160	77610	89160	33810	22810	29630	7200
CAL YR 1984	TOTAL	526414	MEAN	1438	MAX	4780	MIN	147	ACFT	1044000		
WTR YR 1985	TOTAL	258846	MEAN	709	MAX	1810	MIN	46	ACFT	513400		

e Estimated.

SEVIER LAKE BASIN

325

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1951 to current year.

SPECIFIC CONDUCTANCE: March 1951 to September 1980, once daily, October 1980 to September 1981, continuous.

WATER TEMPERATURES: March 1951 to September 1980, once daily, October 1980 to September 1981, continuous.

SEDIMENT DATA: October 1976 to current year, periodically.

INSTRUMENTATION.--Conductance and water temperature recorder October 1980 to September 1981.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 8,300 microsiemens Dec. 27, 1962; minimum daily, 395 microsiemens Feb. 17, 1980.

WATER TEMPERATURES: Maximum recorded, 33.0°C Aug. 23, 1981; minimum, 0.0°C on many days during winter period of most years.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI KF AGAR (COLS. PER 100 ML)
NOV 30...	1115	123	2460	8.3	5.0	3.0	3.2	11.7	640	<1	K23
FEB 08...	1215	783	1620	8.4	3.0	2.0	20	10.8	632	K3	K31
APR 02...	1300	1090	1480	8.5	19.0	8.5	25	10.2	651	K7	K12
MAY 17...	1100	1690	1220	8.5	24.0	14.0	21	8.0	644	--	--
JUL 30...	1100	293	1440	8.5	27.5	22.0	55	7.1	640	140	160
SEP 04...	1215	207	1650	8.4	24.0	20.0	26	7.6	630	K64	170

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HC03)	CAR- BONATE IT-FLD (MG/L AS CO3)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CAC03)
NOV 30...	750	15	120	110	270	44	4.4	6.0	340	--	282
FEB 08...	460	9.2	81	63	150	41	3.1	4.9	340	17	308
APR 02...	460	9.1	77	64	150	41	3.1	4.8	--	10	--
MAY 17...	370	7.5	59	55	130	43	3.0	4.6	312	8.7	--
JUL 30...	430	8.5	70	61	150	43	3.2	5.1	330	6.4	276
SEP 04...	430	8.7	68	64	170	46	3.6	5.5	320	20	293

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
NOV 30...	490	410	0.3	16	1690	1590	2.2	529	0.71	0.03
FEB 08...	210	190	0.3	21	892	903	1.2	1910	0.75	0.04
APR 02...	220	190	0.3	21	900	728	0.99	2140	0.69	0.04
MAY 17...	170	150	0.3	15	716	584	0.79	2660	0.37	0.03
JUL 30...	200	200	0.3	17	886	870	1.2	688	0.38	0.08
SEP 04...	230	240	0.4	16	982	970	1.3	542	0.38	0.03

K Results based on colony count outside acceptable range (non-ideal colony count).

SEVIER LAKE BASIN

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTH0, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTH0, DIS- SOLVED (MG/L AS P04)
NOV 30...	0.04	0.4	0.4	0.4	1.8	0.01	--	<0.01	<0.01	0.03
FEB 08...	0.05	0.5	0.5	0.5	2.2	0.05	--	0.01	<0.01	0.03
APR 02...	0.05	1.1	1.10	1.1	4.9	0.06	--	<0.01	<0.01	0.03
MAY 17...	0.04	0.4	0.4	0.4	1.8	0.02	0.06	<0.01	<0.01	0.03
JUL 30...	0.1	0.7	0.7	0.7	3.1	0.10	0.31	<0.01	0.01	0.03
SEP 04...	0.04	0.5	0.5	0.5	2.2	0.04	0.12	0.01	<0.01	0.03

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV 30...	1115	<10	5	<100	<10	<1	<0.50	4.00	6	20	7
APR 02...	1300	20	2	85.00	<0.50	<1	<1	<3.00	1	5.00	3
JUL 30...	1100	<10	7	88.00	<0.50	<1	1	<3.00	1	4.00	<1
SEP 04...	1215	<10	6	95.00	<0.50	<1	1	<3.00	2	<3.00	1

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 30...	70	50	<0.1	1	4	1	<1	1800	8.2	<10
APR 02...	60	5	<0.1	<10	3	1	<1	1000	<6.0	20
JUL 30...	50	3	<0.1	<10	<1	<1	<1	810	<6.0	10
SEP 04...	60	9	0.1	<10	2	<1	<1	810	<6.0	10

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE SUS- PENDED (T/DAY)
NOV 30...	1115	123	3.0	14	5	1.7
FEB 08...	1215	783	2.0	73	112	237
APR 02...	1300	1090	8.5	69	166	489
MAY 17...	1100	1690	14.0	69	198	903
SEP 04...	1215	207	20.0	--	127	71

SEVIER LAKE BASIN

327

10224100 OAK CREEK ABOVE LITTLE CREEK, NEAR OAK CITY, UT

LOCATION.--Lat 39°21'23", long 112°13'55", in NE1/4NE1/4NW1/4 sec.7, T.17 S., R.3 W., Millard County, Hydrologic Unit 16030005, Fish Lake National Forest, on right bank 0.3 mi upstream from a 12-inch pipeline diversion at Walker's Fork and 5.7 mi east of Oak City.

DRAINAGE AREA.--5.58 mi².

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,480 ft from topographic map.

REMARKS.--Records poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--21 years, 3.34 ft³/s, 2,420 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120 ft³/s Apr. 29, 1973, gage height, 2.21 ft; minimum, 0.03 ft³/s Dec. 31, 1967, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
------	------	-----------------------------------	---------------------	------	------	-----------------------------------	---------------------

Peaks above base not determined.

Minimum daily, 0.39 ft³/s Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.98	1.3	1.4	e1.0	e.92	e.94	e7.2	e8.4	e4.8	e1.6	e.80	.51
2	1.0	1.4	1.3	e1.0	e.92	e.95	e7.5	e8.0	e4.7	e1.6	e.72	.52
3	1.0	1.4	1.2	e.99	e.91	e.97	e8.0	e8.8	e4.3	e1.5	e.67	.50
4	.91	1.4	1.2	e.98	e.91	e.98	e8.4	e9.1	e4.2	e1.4	e.75	.49
5	.90	1.4	e1.0	e.98	e.92	e1.0	e8.8	e9.5	e3.9	e1.2	e.66	.48
6	.85	1.4	e1.0	e.96	e.93	e1.0	e10	e9.6	e3.7	e1.2	e.73	.47
7	.82	1.4	1.1	e.95	e.93	e1.0	e11	e9.8	e3.6	e1.1	e.78	.49
8	.82	1.4	1.1	e.95	e.94	e1.1	e13	e10	e3.6	e1.1	e.60	.46
9	.79	1.4	1.1	e.96	e.95	e1.1	e14	e11	e3.4	e1.1	e.70	.44
10	.81	1.4	1.2	e.94	e.94	e1.2	e15	e10	e3.2	e1.0	e.82	.44
11	1.1	1.4	1.2	e.94	e.94	e1.3	e15	e10	e3.1	e1.0	e.78	.72
12	2.3	1.4	1.2	e.93	e.94	e1.3	e14	e9.7	e2.9	e.99	e.76	.55
13	1.2	1.4	1.3	e.92	e.94	e1.4	e13	e9.6	e3.0	e.97	e.82	.50
14	1.1	1.4	e1.2	e.93	e.95	e1.5	e12	e9.2	e3.3	e.93	e.79	.46
15	1.1	1.4	e1.1	e.94	e.95	e1.7	e13	e8.9	e2.9	e.92	e.77	.42
16	1.2	1.4	e1.1	e.97	e.95	e1.9	e13	e8.7	e2.7	e.91	e.74	.39
17	1.3	1.4	e1.1	e.98	e.96	e2.0	e12	e8.6	e3.0	e.90	e.72	.43
18	1.2	1.4	e1.1	e.99	e.96	e2.2	e11	e9.1	e2.6	e.88	e.71	.69
19	1.4	1.4	e1.1	e.99	e.94	e2.4	e11	e8.4	e2.3	e.88	e.70	.79
20	1.5	1.4	e1.1	e1.0	e.93	e2.6	e10	e8.0	e2.1	e.85	e.79	.63
21	1.5	1.4	e1.1	e1.0	e.93	e2.8	e10	e8.0	e2.1	e.81	e.72	.63
22	1.4	1.4	e1.1	e.98	e.95	e3.0	e9.9	e7.5	e2.0	e.77	e.70	.62
23	1.4	1.4	e1.1	e.96	e.95	e3.1	e9.6	e7.3	e2.0	e.74	e.70	.62
24	1.4	1.4	e1.0	e.95	e.94	e3.3	e9.4	e6.9	e1.9	e.73	e.68	.58
25	1.4	1.6	e1.0	e.93	e.93	e3.5	e9.1	e6.6	e1.9	e.72	e.67	.59
26	1.4	1.4	e1.0	e.93	e.92	e4.0	e9.0	e6.4	e1.8	e.81	e.67	.58
27	1.4	e1.1	e1.0	e.92	e.95	e4.7	e8.9	e6.0	e1.8	e.71	e.66	.54
28	1.4	1.4	e.99	e.93	e.95	e5.0	e8.6	e5.8	e1.8	e.65	e.64	.56
29	1.2	1.4	.97	e.93	---	e6.0	e8.3	e5.7	e1.7	e.80	e.60	.59
30	1.2	1.4	1.0	e.94	---	e7.2	e8.2	e5.6	e1.6	e.90	.54	.57
31	1.2	---	1.1	e.93	---	e7.5	---	e5.6	---	e1.0	.50	---
TOTAL	37.18	41.8	34.46	29.70	26.25	78.64	317.9	255.8	85.9	30.67	21.89	16.26
MEAN	1.20	1.39	1.11	.96	.94	2.54	10.6	8.25	2.86	.99	.71	.54
MAX	2.3	1.6	1.4	1.0	.96	7.5	15	11	4.8	1.6	.82	.79
MIN	.79	1.1	.97	.92	.91	.94	7.2	5.6	1.6	.65	.50	.39
ACFT	74	83	68	59	52	156	631	507	170	61	43	32
CAL YR 1984	TOTAL	2352.01	MEAN	6.43	MAX	61	MIN	.49	ACFT	4670		
WTR YR 1985	TOTAL	976.45	MEAN	2.68	MAX	15	MIN	.39	ACFT	1940		

e Estimated.

SEVIER LAKE BASIN

10224300 OAK CREEK BELOW BIG SPRING, NEAR OAK CITY, UT

LOCATION.--Lat 39°21'11", long 112°17'07", in NE1/4NE1/4SW1/4, sec.10, T.17 S., R.4 W., Millard County, Hydrologic Unit 16030005, on right bank 0.5 mi upstream from Fish Lake National Forest, 3.2 mi east of Oak City along road to Forest Camp.

DRAINAGE AREA.--17.8 mi².

PERIOD OF RECORD.--June 1979 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,640 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--6 years, 15.9 ft³/s, 11,520 acre ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 190 ft³/s May 23, 1983; minimum daily, 1.7 ft³/s Oct. 1-3, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 11	0200	*50	*2.51	May 8	2000	44	2.44
July 19	1500	28	2.35				

Minimum discharge, 2.7 ft³/s Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	6.3	5.6	e5.1	5.6	5.8	20	e22	e18	8.6	e7.4	3.6
2	7.1	6.4	5.4	e4.9	5.6	6.3	20	e25	e17	8.7	e7.0	3.3
3	7.0	6.3	5.7	e4.9	5.6	6.2	23	e27	e16	8.9	e6.0	3.3
4	7.0	6.3	5.9	e4.7	5.6	6.1	23	e29	e14	8.6	6.4	3.5
5	7.0	6.3	5.5	e4.8	5.3	6.4	25	e29	e13	8.7	6.0	3.6
6	7.0	6.3	5.8	e4.9	5.3	6.8	27	e30	e12	8.5	6.0	3.5
7	7.0	6.4	6.0	e5.0	5.3	7.0	31	e31	11	8.1	5.9	3.3
8	6.8	6.9	6.0	e5.0	5.4	6.8	33	e32	11	8.0	e5.4	3.2
9	6.8	7.2	5.4	e5.1	5.6	7.0	37	36	11	8.0	e5.3	2.9
10	6.8	7.3	4.4	e5.0	5.6	7.4	42	32	11	7.8	e6.6	2.9
11	6.8	7.0	4.7	e5.0	5.4	7.8	44	30	11	7.8	e6.2	3.4
12	7.7	7.3	4.9	e5.1	5.3	9.2	41	31	11	7.5	e6.8	3.2
13	7.0	7.2	5.0	e5.2	5.3	10	41	30	e13	6.9	e6.9	3.1
14	6.8	6.8	4.6	e5.5	5.3	11	41	28	e12	6.9	e7.0	3.3
15	6.7	6.7	4.7	e5.9	5.3	11	40	27	10	7.0	e5.5	3.1
16	6.9	6.3	5.0	6.3	5.2	12	36	26	10	7.0	4.6	2.9
17	7.1	6.1	5.3	6.4	5.0	13	40	26	e11	7.0	4.4	3.1
18	7.0	6.0	e5.4	6.7	5.0	14	37	30	10	7.4	4.4	3.9
19	7.0	5.7	e5.5	6.7	5.3	14	34	27	10	7.8	4.3	4.3
20	7.0	6.1	e5.6	6.6	5.5	15	32	25	10	7.0	5.0	4.1
21	6.9	6.3	e5.8	6.3	5.6	15	30	26	10	7.0	4.5	4.2
22	6.7	6.3	e5.2	6.3	5.3	16	27	23	10	6.7	4.4	3.9
23	6.7	6.3	e4.9	6.3	5.3	17	25	23	9.9	6.3	4.2	3.9
24	6.7	6.3	e5.0	6.3	5.3	17	24	24	9.4	6.3	4.3	3.9
25	6.7	6.0	e4.9	6.3	5.3	18	24	24	10	6.3	4.3	3.7
26	6.3	6.0	e5.1	6.1	5.6	18	22	e23	9.0	e7.8	3.9	3.6
27	6.6	5.5	e5.4	6.0	5.6	21	e21	e24	9.1	5.3	3.6	3.6
28	6.7	6.0	e5.6	6.0	5.4	21	e22	e23	8.9	5.4	3.6	3.6
29	6.7	6.0	e5.7	6.0	---	21	e21	e21	8.5	e6.0	3.5	3.4
30	6.6	5.8	e5.6	6.0	---	21	e21	e19	8.6	7.0	3.6	3.3
31	6.7	---	e5.5	5.8	---	19	---	e20	---	e7.8	3.6	---
TOTAL	212.8	191.4	165.1	176.2	150.9	386.8	904	823	335.4	228.1	160.6	104.6
MEAN	6.86	6.38	5.33	5.68	5.39	12.5	30.1	26.5	11.2	7.36	5.18	3.49
MAX	7.7	7.3	6.0	6.7	5.6	21	44	36	18	8.9	7.4	4.3
MIN	6.3	5.5	4.4	4.7	5.0	5.8	20	19	8.5	5.3	3.5	2.9
ACFT	422	380	327	349	299	767	1790	1630	665	452	319	207
CAL YR 1984	TOTAL	8598.0	MEAN	23.5	MAX	117	MIN	4.4	ACFT	17050		
WTR YR 1985	TOTAL	3838.9	MEAN	10.5	MAX	44	MIN	2.9	ACFT	7610		

e Estimated.

BEAVER RIVER BASIN

329

10234500 BEAVER RIVER NEAR BEAVER, UT

LOCATION.--Lat 38°16'50", long 112°34'25", in SW1/4SW1/4SE1/4 sec.18, T.29 S., R.6 W., Beaver County, Hydrologic Unit 16030007, on left bank 4.2 mi east of Beaver.

DRAINAGE AREA.--91.0 mi².

PERIOD OF RECORD.--June to September 1906, March 1914 to current year.

REVISED RECORDS.--WDR UT-80-1: 1979.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft from topographic map. Prior to Mar. 30, 1914, non-recording gage, and Mar. 30, 1914 to Oct. 15, 1937, water-stage recorder, at site 800 ft upstream at different datum. Oct. 16, 1937 to Mar. 20, 1959, at site 1,800 ft upstream at different datum. Mar. 21, 1959 to Mar. 21, 1978 at site 3,800 ft upstream at different datum. Mar. 21, 1978 to May 28, 1983, at site 1,800 ft upstream at different datum.

REMARKS.--Records poor. No diversion for irrigation above station. Water diverted for hydroelectric power, but returned to stream above station. Some regulation by powerplants and several small reservoirs.

AVERAGE DISCHARGE.--71 years, 53.0 ft³/s, 38,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft³/s July 22, 1936, gage height, 7.27 ft, site and datum then in use, from rating curve extended above 500 ft³/s; minimum, 1.8 ft³/s Dec. 6, 1976, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 4	1730	*364	*2.16	May 26	2230	333	2.11

Minimum daily, 16 ft³/s Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	25	30	e20	e16	25	31	122	201	91	57	33
2	44	28	29	e21	e21	25	39	166	191	88	54	34
3	47	28	29	e21	e19	24	46	231	193	91	56	33
4	47	27	28	e20	e20	23	50	306	192	87	60	33
5	45	26	e28	e20	e19	24	53	266	192	87	60	33
6	46	28	e27	e22	e20	26	62	269	202	84	59	33
7	43	28	30	e26	e23	24	74	294	214	85	60	33
8	33	28	30	32	25	23	83	300	216	84	59	33
9	34	26	29	30	21	23	90	277	208	82	59	32
10	34	25	29	28	22	27	101	234	197	79	56	30
11	33	29	30	27	25	26	95	199	182	77	56	32
12	45	27	31	e25	22	25	95	175	171	72	54	32
13	39	27	30	e22	21	21	106	166	163	74	54	30
14	47	26	e26	e21	21	23	114	184	158	72	53	29
15	38	25	e24	e24	22	25	124	189	157	70	57	28
16	38	26	e36	e27	23	24	124	201	149	68	56	29
17	37	25	e24	e30	23	24	118	219	141	70	53	30
18	38	21	e28	e32	23	24	112	231	133	80	39	30
19	44	21	e35	e33	23	25	97	280	125	78	36	30
20	41	22	e35	31	23	26	90	261	120	77	38	29
21	39	25	e35	32	21	27	78	255	121	73	39	29
22	34	26	e26	31	23	26	74	242	115	70	39	28
23	33	27	e20	33	22	27	72	237	109	64	38	28
24	34	26	e23	30	22	30	75	242	129	65	37	29
25	34	22	e18	29	22	33	78	257	141	60	37	26
26	34	25	e22	29	23	34	75	294	121	59	36	24
27	32	e34	28	28	24	33	72	288	107	57	36	24
28	30	e36	27	28	25	30	75	290	101	60	35	25
29	29	e30	26	27	---	33	85	237	97	62	34	24
30	29	28	24	e22	---	34	103	237	94	62	34	24
31	29	---	23	e19	---	32	---	231	---	59	34	---
TOTAL	1171	797	860	820	614	826	2491	7380	4640	2287	1475	887
MEAN	37.8	26.6	27.7	26.5	21.9	26.6	83.0	238	155	73.8	47.6	29.6
MAX	47	36	36	33	25	34	124	306	216	91	60	34
MIN	29	21	18	19	16	21	31	122	94	57	34	24
ACFT	2320	1580	1710	1630	1220	1640	4940	14640	9200	4540	2930	1760

CAL YR 1984	TOTAL	35400	MEAN	96.7	MAX	884	MIN	17	ACFT	70220
WTR YR 1985	TOTAL	24248	MEAN	66.4	MAX	306	MIN	16	ACFT	48100

e Estimated.

BEAVER RIVER BASIN

10237000 BEAVER RIVER AT ADAMSVILLE, UT

LOCATION.--Lat 38°15'13", long 112°45'56", in NE1/4SW1/4 sec.28, T.29 S., R.8 W., Beaver County, Hydrologic Unit 16030007, on right bank 80 ft upstream from bridge on State Highway 21, 1.6 mi upstream from Indian Creek, and 1.6 mi east of Adamsville.

DRAINAGE AREA.--303 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1913 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,550 ft from topographic map. Prior to Sept. 15, 1936, water-stage recorder and Sept. 15, 1936, to Oct. 15, 1937, nonrecording gage, at site 1.1 mi downstream at different datum. Oct. 16, 1937, to May 28, 1946, water-stage recorder at site 1.2 mi downstream at different datum. May 29, 1946, to Mar. 19, 1970 at site 1.75 mi downstream at different datum. Mar. 20, 1970, to July 25, 1979 at site 450 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. One small diversion between station and Minersville Reservoir. Several ditches above station divert practically entire flow during irrigation season to supply Adamsville and Beaver districts.

AVERAGE DISCHARGE.--71 years (1914-85), 39.5 ft³/s, 28,620 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,700 ft³/s June 19, 20, 1983; no flow during summer and fall months in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 364 ft³/s May 5, gage height, 5.07 ft; minimum daily, 0.55 ft³/s Sept. 2-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	67	66	52	e48	52	98	114	100	16	12	1.1
2	45	67	64	48	e52	53	148	139	80	13	12	.55
3	47	66	62	49	e54	51	156	193	68	11	13	.55
4	47	62	62	49	e49	52	141	261	62	10	14	.82
5	47	65	62	52	e47	54	132	301	60	10	11	.82
6	43	66	58	52	e50	55	138	274	57	9.9	11	.82
7	44	64	60	54	e54	50	152	251	58	9.3	11	1.1
8	44	64	63	55	e54	48	174	245	65	10	8.9	2.1
9	44	65	70	52	e52	52	193	233	74	17	4.0	3.1
10	42	64	67	52	e50	62	204	252	63	12	3.7	4.1
11	43	74	70	53	e55	58	182	209	51	12	3.4	1.6
12	52	71	74	54	e53	53	e175	161	45	13	3.1	1.6
13	50	69	58	47	e50	49	e169	134	41	13	2.9	1.9
14	56	67	e54	50	e52	50	e160	108	46	13	2.9	2.9
15	52	65	e52	55	e54	55	e148	80	46	11	3.0	2.8
16	54	65	62	57	e54	56	113	88	39	7.4	4.5	2.2
17	69	61	58	55	e55	62	103	e99	33	9.4	2.6	2.6
18	78	60	62	54	e56	62	107	e110	24	23	2.6	3.5
19	94	63	62	55	e55	59	98	e123	12	31	3.4	13
20	98	63	64	56	e52	57	112	e125	12	32	2.7	12
21	110	64	61	56	e52	62	124	e113	9.7	35	2.5	10
22	81	64	55	55	e54	61	117	90	12	40	1.9	11
23	76	64	63	53	e54	62	e115	95	12	25	1.8	16
24	74	65	64	53	e53	64	e105	92	14	26	1.4	13
25	74	64	59	55	e52	69	e96	98	42	23	1.6	13
26	72	64	73	56	54	74	e98	129	47	19	1.4	15
27	73	61	61	55	54	81	e98	139	46	17	1.6	15
28	68	68	65	51	54	85	e97	141	33	14	1.9	14
29	67	69	71	52	---	e82	e99	119	23	14	1.1	12
30	69	66	64	49	---	e86	118	103	20	14	.82	13
31	70	---	59	e50	---	89	---	111	---	12	1.9	---
TOTAL	1924	1957	1945	1636	1473	1905	3970	4730	1294.7	522.0	149.62	191.16
MEAN	62.1	65.2	62.7	52.8	52.6	61.5	132	153	43.2	16.8	4.83	6.37
MAX	110	74	74	57	56	89	204	301	100	40	14	16
MIN	41	60	52	47	47	48	96	80	9.7	7.4	.82	.55
ACFT	3820	3880	3860	3250	2920	3780	7870	9380	2570	1040	297	379

CAL YR 1984 TOTAL 45546.0 MEAN 124 MAX 1380 MIN 9.1 ACFT 90340
WTR YR 1985 TOTAL 21697.48 MEAN 59.4 MAX 301 MIN .55 ACFT 43040

e Estimated.

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year.

SEDIMENT DATA: October 1976 to current year, periodically.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1981.

WATER TEMPERATURES: October 1975 to September 1981.

INSTRUMENTATION.--Specific-conductance recorder and temperature recorder since October 1975.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,130 microsiemens Oct. 14, 1976; minimum, 258 microsiemens Feb. 4, 1977.

WATER TEMPERATURES: Maximum, 31.5°C June 28, 1977; minimum, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
DEC 31...	1250	60	425	8.3	1.5	3.0	9.1	11.4	615	19
MAR 30...	1145	86	360	7.9	5.0	4.5	28	11.1	615	370
MAY 21...	1100	113	290	8.1	17.0	13.5	18	9.0	611	1300
SEP 03...	1030	1.3	850	8.2	21.0	17.5	1.3	9.1	610	110

DATE	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
DEC 31...	200	170	167	0	47	12	27	25	0.9	4.8
MAR 30...	200	130	126	8	36	8.6	19	24	0.8	3.8
MAY 21...	490	120	122	10	35	8.4	16	21	0.7	4.2
SEP 03...	35	270	267	--	72	21	83	40	2	8.0

DATE	ALKA- LINITY LAB (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
DEC 31...	167	30	19	0.6	35	282	620	0.38	46
MAR 30...	118	27	16	0.4	32	222	480	0.3	52
MAY 21...	112	23	10	0.5	30	191	440	0.26	58
SEP 03...	316	64	47	1.2	47	545	540	0.74	1.9

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
DEC 31...	0.42	0.03	0.04	0.6	0.10	--	0.07	0.06	0.18
MAR 30...	0.37	0.07	0.09	0.3	0.29	--	0.06	0.05	0.15
MAY 21...	0.20	0.10	0.13	0.8	0.20	0.61	0.12	0.07	0.21
SEP 03...	<0.10	0.04	0.05	0.7	0.12	0.37	0.10	0.09	0.28

BEAVER RIVER BASIN

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
DEC 31...	1250	<10	2	36	2	<1	2	<3	3	19	1
MAR 30...	1145	20	1	30	<0.5	<1	<1	<3	2	10	3
MAY 21...	1100	130	1	28	<0.5	<1	<1	<3	3	72	2
SEP 03...	1030	<10	5	62	<0.5	<1	<1	<3	1	23	2

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC 31...	15	110	<0.1	<10	4	<1	<1	320	<6	22
MAR 30...	10	72	<0.1	<10	6	<1	<1	240	<6	14
MAY 21...	8	48	<0.1	<10	3	<1	<1	250	<6	4
SEP 03...	23	240	0.1	<10	2	<1	<1	530	<6	23

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
MAR 30...	1145	86	4.5	64	335	78
MAY 21...	1100	113	13.5	42	134	41
SEP 03...	1030	1.3	17.5	--	94	0.33

BEAVER RIVER BASIN

333

10238500 MINERSVILLE RESERVOIR NEAR MINERSVILLE, UT

LOCATION.--Lat 38°13'03", long 112°50'05", in SE1/4NE1/4NW1/4 sec.11, T.30 S., R.9 W., Beaver County, Hydrologic Unit 16030007, at right end of Rocky Ford Dam on Beaver River, 5.0 mi east of Minersville.

DRAINAGE AREA.--534 mi².

PERIOD OF RECORD.--April to August 1915, November 1915 to September 1917, December 1917 to March 1921, June to September 1922, October 1937 to current year. Month-end contents only for some periods, published in WSP 1314. Published as Rockyford Reservoir near Minersville prior to October 1, 1967.

REVISED RECORDS.--WDR UT-75-1: Drainage area.

GAGE.--Staff gage. Datum of gage is at 5,452.0 ft NGVD of 1929 (levels by topographic survey).

REMARKS.--Reservoir is formed by earthfill dam completed in 1914. Capacity, 23,260 acre-ft between gage height, 8.0 ft (bottom of outlet tunnel) and 51.0 ft (spillway crest). Prior to fall of 1937, the spillway crest was at elevation 52.5 ft; capacity, 24,910 acre-ft. Dead storage negligible. Figures given herein represent total contents. Water is used for irrigation in vicinity of Minersville and Milford.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 26,330 acre-ft June 24-29, 1969, gage height, 53.8 ft. No contents at times in 1915, 1918-19, 1939, 1956, and 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 24,950 acre-ft Apr. 29, gage height, 54.0 ft; minimum observed, 6,100 acre-ft, gage height, 30.8 ft Sept. 24.

MONTHEND ELEVATION, IN FEET, AND CONTENTS AT 2400, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	-	*14,940	-
Oct. 31	-	*17,970	+3,030
Nov. 30	-	*20,430	+2,460
Dec. 31	-	*21,070	+640
CAL YR 1984	-	-	-2,560
Jan. 31	-	*21,820	+750
Feb. 28	-	*23,940	+2,120
Mar. 31	-	*24,770	+830
Apr. 30	-	*24,820	+50
May 31	-	*20,920	-3,900
June 30	-	*17,150	-3,770
July 31	-	*12,790	-4,360
Aug. 31	-	*7,820	-4,970
Sept. 30	-	*7,340	-480
WTR YR 1985	-	-	-7,600

(*) No gage height reading, contents interpolated.

BEAVER RIVER BASIN

10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UT

LOCATION.--Lat 38°13'03", long 112°50'22", in SE1/4NW1/4NW1/4 sec.11, T.30 S., R.9 W., Beaver County, Hydrologic Unit 16030007, on right bank and 0.5 mi downstream from Rocky Ford Dam and 4.8 mi east of Minersville.

DRAINAGE AREA.--535 mi².

PERIOD OF RECORD.--December 1913 to September 1936, April 1937 to current year.

REVISED RECORDS.--WSP 1564: 1920, 1924. WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Concrete control since Nov. 12, 1916. Altitude of gage is 5,400 ft by barometer. Prior to June 1, 1916, at site 1,500 ft upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. One small diversion between dam and station. Flow regulated by Minersville Reservoir (formerly published as Rockyford Reservoir). Numerous diversions for irrigation and municipal use above reservoir.

AVERAGE DISCHARGE.--70 years (1914-36, 1937-85), 41.2 ft³/s, 29,850 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft³/s June 12, 1983, gage height, 4.74 ft, from rating curve extended above 500 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 0.4 ft³/s Mar. 20, 1914.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 344 ft³/s May 6, gage height, 2.60 ft; minimum daily, 6.8 ft³/s Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	32	33	55	54	58	109	116	145	178	81	124
2	30	32	32	55	53	58	148	92	150	177	96	123
3	30	32	32	55	53	58	232	144	135	176	96	122
4	29	32	32	55	53	57	262	216	114	175	108	122
5	30	32	32	55	54	56	88	289	114	182	134	117
6	29	32	33	55	55	56	47	314	115	192	145	103
7	30	32	33	55	55	58	232	323	115	194	149	98
8	30	32	33	55	55	58	224	308	116	180	157	93
9	30	32	33	55	55	57	194	272	110	179	160	71
10	30	22	38	55	55	58	192	223	88	178	164	31
11	30	9.0	43	54	55	58	161	191	69	156	163	8.3
12	30	8.6	43	55	55	58	147	180	70	135	161	8.1
13	30	8.6	43	55	55	58	147	179	101	125	160	7.7
14	30	8.6	43	55	55	58	147	176	110	116	159	7.7
15	30	8.6	43	55	55	58	147	175	97	97	158	7.7
16	28	8.6	43	55	55	58	86	175	97	90	153	7.8
17	29	8.6	43	55	56	58	68	174	117	96	145	7.8
18	29	8.6	43	55	56	57	86	173	140	108	145	8.7
19	29	8.6	43	55	57	56	96	172	142	108	129	8.4
20	30	8.6	48	55	58	56	136	170	160	96	121	7.7
21	30	8.6	55	55	57	61	158	169	162	57	120	7.7
22	29	8.6	55	55	58	58	154	166	170	7.2	128	7.4
23	30	8.6	55	55	58	58	146	158	163	8.6	135	7.4
24	30	8.6	55	55	58	58	136	156	87	8.4	134	7.3
25	29	9.0	55	55	58	58	112	154	164	8.4	134	7.4
26	31	8.6	55	55	58	58	126	154	180	57	130	7.3
27	32	8.6	55	55	58	63	139	154	179	74	127	7.2
28	32	8.6	55	55	58	86	155	156	178	66	126	6.8
29	32	21	55	55	---	109	155	156	178	74	125	6.8
30	32	32	55	55	---	97	151	156	178	73	124	6.8
31	32	---	55	55	---	95	---	147	---	86	124	---
TOTAL	924	518.6	1371	1704	1562	1950	4381	5788	3944	3457.6	4191	1156.0
MEAN	29.8	17.3	44.2	55.0	55.8	62.9	146	187	131	112	135	38.5
MAX	32	32	55	55	58	109	262	323	180	194	164	124
MIN	22	8.6	32	54	53	56	47	92	69	7.2	81	6.8
ACFT	1830	1030	2720	3380	3100	3870	8690	11480	7820	6860	8310	2290
CAL YR 1984	TOTAL	47794.9	MEAN	131	MAX	856	MIN	8.6	ACFT	94800		
WTR YR 1985	TOTAL	30947.2	MEAN	84.8	MAX	323	MIN	6.8	ACFT	61380		

PAROWAN VALLEY

335

10241470 CENTER CREEK ABOVE PAROWAN CREEK, NEAR PAROWAN, UT

LOCATION.--Lat 37°47'35", long 112°48'55", in SW1/4NE1/4NE1/4 sec.1, T.35 S., R.9 W., Iron County, Hydrologic Unit 16030006, on left bank about 900 ft above mouth of Parowan Creek and 3.5 mi south of Parowan.

DRAINAGE AREA.--11.6 mi².

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,900 ft from topographic map.

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

AVERAGE DISCHARGE.--21 years, 6.62 ft³/s, 4,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 353 ft³/s Aug. 10, 1965, gage height, 4.96 ft from floodmarks, from rating curve extended above 18 ft³/s on basis of slope-area measurements at gage height 4.96 ft; minimum recorded, 1.4 ft³/s July 16, 1972 and Jan. 24, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 20	2300	*28	1.45				

Minimum daily discharge, 3.1 ft³/s Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e6.8	5.8	e5.4	e5.1	e3.2	4.9	5.1	10	10	15	9.9	7.6
2	7.0	5.8	e4.9	e4.4	e3.1	5.0	6.0	11	10	14	9.8	7.6
3	7.1	5.8	e5.4	e3.9	e3.6	5.2	6.6	11	10	14	9.6	7.6
4	7.0	5.6	e5.6	e3.6	e3.4	e4.2	6.4	11	11	14	9.6	7.6
5	6.9	5.5	e5.6	e3.3	e3.2	5.7	6.3	11	11	14	9.4	7.5
6	6.7	5.5	e5.5	e4.9	e4.7	5.0	6.7	11	11	14	9.3	7.5
7	6.7	5.6	e5.3	5.3	5.9	4.9	6.9	11	11	14	9.2	7.4
8	6.6	5.7	e6.0	5.3	5.1	4.9	7.2	11	11	14	9.1	7.2
9	6.6	5.6	e6.3	5.3	5.1	5.0	7.6	11	12	13	9.1	7.2
10	6.6	5.5	e6.5	5.3	4.9	5.4	8.2	12	12	13	9.0	7.2
11	6.7	5.7	e7.0	5.4	4.9	5.3	8.4	12	13	13	8.9	7.3
12	7.7	5.6	e6.6	e4.5	5.0	5.2	8.8	11	13	13	8.8	7.2
13	6.4	5.6	e6.1	e5.0	5.0	5.1	9.0	11	13	13	8.7	7.2
14	6.8	5.6	e5.8	e7.3	4.9	5.1	9.1	11	13	13	8.6	7.3
15	6.5	5.6	e6.3	7.1	4.9	5.2	9.0	11	13	13	8.5	7.4
16	6.3	5.6	e6.8	5.7	5.0	5.1	9.1	10	14	13	8.4	7.4
17	6.5	5.5	e6.4	5.6	5.1	5.1	9.3	10	14	13	8.3	7.4
18	6.3	5.4	5.7	5.3	5.0	5.1	9.1	10	15	13	8.2	7.9
19	6.4	5.5	5.5	5.3	5.1	5.0	8.5	10	16	13	8.1	7.6
20	6.3	5.3	5.6	5.3	5.1	5.4	8.1	10	16	13	8.1	7.5
21	6.2	5.5	e4.9	5.3	5.0	5.5	7.9	10	16	11	8.1	7.4
22	6.2	5.5	e4.4	5.3	5.1	5.4	7.8	10	16	11	8.1	7.3
23	6.2	5.5	e4.0	5.3	5.0	5.2	7.6	10	16	10	8.1	7.1
24	6.2	5.5	e3.7	5.3	5.1	5.3	7.6	10	16	10	8.0	7.0
25	6.2	5.5	e3.8	5.3	5.0	5.3	7.6	10	16	10	7.9	7.0
26	6.2	e4.9	e5.3	5.3	4.9	5.3	7.5	10	17	10	8.0	7.0
27	6.1	e4.3	5.4	5.3	4.9	5.3	8.3	10	16	10	8.0	7.0
28	5.9	4.7	5.5	e4.7	4.9	5.4	10	10	16	11	7.8	7.0
29	5.8	4.4	5.3	5.3	---	e4.9	11	10	16	11	7.8	6.9
30	5.8	e3.8	5.4	5.3	---	e4.0	10	10	15	11	7.7	6.8
31	5.8	---	5.3	e4.1	---	4.9	---	10	---	10	7.6	---
TOTAL	200.5	161.4	171.3	159.4	132.1	158.3	240.7	326	409	384	265.7	219.1
MEAN	6.47	5.38	5.53	5.14	4.72	5.11	8.02	10.5	13.6	12.4	8.57	7.30
MAX	7.7	5.8	7.0	7.3	5.9	5.7	11	12	17	15	9.9	7.9
MIN	5.8	3.8	3.7	3.3	3.1	4.0	5.1	10	10	10	7.6	6.8
ACFT	398	320	340	316	262	314	477	647	811	762	527	435

CAL YR 1984	TOTAL	3266.2	MEAN	8.92	MAX	23	MIN	3.7	ACFT	6480
WTR YR 1985	TOTAL	2827.5	MEAN	7.75	MAX	17	MIN	3.1	ACFT	5610

e Estimated.

10241600 SUMMIT CREEK NEAR SUMMIT, UT

LOCATION.--Lat 37°47'13", long 112°54'56", in NW1/4NE1/4SW1/4 sec.6, T.35 S., R.9 W., Iron County, Hydrologic Unit 16030006, on left bank about 900 ft upstream from concrete diversion dam, 1.2 mi south of U.S. Highway 91, and 1.3 mi southeast of Summit.

DRAINAGE AREA.--24.0 mi².

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area. WDR UT-84-1: 1971, 1983 (M).

GAGE.--Water-stage recorder. Altitude of gage is 6,313 ft (levels by U.S. Geological Survey). Prior to July 15, 1971, at site 600 ft downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--21 years, 4.75 ft³/s, 3,440 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 795 ft³/s July 28, 1969, gage height, 5.20 ft from rating curve extended on basis of slope-area measurement of peak flow; minimum, 0.05 ft³/s Feb. 5-7, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 18	0400	21	2.69	July 18	1800	17	2.71
May 9	1800	*28	2.74				

Minimum daily, 1.3 ft³/s Sept. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	2.8	2.6	e2.1	e1.5	2.6	2.9	14	13	4.4	2.9	1.4
2	2.9	2.9	2.6	e2.0	2.7	2.6	3.2	13	12	4.3	2.8	1.4
3	2.9	2.9	2.6	e2.0	2.6	2.4	3.4	17	10	4.0	2.7	1.5
4	2.9	2.8	2.6	e2.0	2.6	e1.8	3.4	16	9.9	3.9	2.6	1.6
5	2.8	2.8	2.6	e2.4	2.5	e2.5	3.6	14	9.4	3.8	2.5	1.6
6	2.6	2.9	2.6	2.6	2.6	2.6	4.6	14	8.7	3.7	2.4	1.6
7	2.6	2.9	2.3	2.6	2.6	2.6	6.4	18	8.6	3.6	2.3	1.7
8	2.6	2.9	2.6	2.6	2.6	2.5	9.1	24	8.6	3.7	2.2	1.7
9	2.6	2.7	2.6	2.6	2.6	2.6	11	26	8.5	3.7	2.2	1.6
10	2.6	2.6	2.6	2.6	2.5	2.9	14	25	8.1	4.0	2.1	1.6
11	2.7	2.9	2.6	2.5	2.6	2.7	12	24	8.2	3.6	1.9	1.8
12	4.4	2.9	2.6	e2.1	2.6	2.5	13	23	8.2	3.4	2.0	1.9
13	3.0	2.9	2.5	e2.0	2.6	2.4	11	19	7.9	3.2	2.0	1.7
14	4.0	2.8	2.5	2.8	2.5	2.7	13	17	7.4	3.0	1.9	1.5
15	3.0	2.7	e2.3	2.6	2.6	2.6	12	17	6.9	3.0	1.9	1.4
16	2.9	2.8	e2.9	2.6	2.6	2.5	16	15	6.2	3.4	1.8	1.4
17	2.9	2.7	e2.7	2.6	2.6	2.4	18	15	5.9	4.4	1.8	1.3
18	2.8	2.6	2.6	2.6	2.6	2.5	18	15	5.7	6.5	1.8	2.3
19	3.0	2.8	2.6	2.6	2.5	2.5	17	14	5.5	4.9	1.7	2.6
20	2.9	2.4	2.7	2.6	2.6	2.7	18	14	5.3	4.8	1.6	2.0
21	3.1	2.6	e2.4	2.6	2.5	2.8	17	14	5.2	4.1	1.6	1.8
22	3.0	2.7	e2.2	2.6	2.3	2.6	17	14	5.0	4.1	1.5	1.8
23	2.9	2.6	e2.3	2.6	2.5	2.7	16	14	4.9	3.9	1.5	1.8
24	3.0	2.6	2.6	2.6	2.5	2.8	17	14	6.0	3.8	1.4	1.8
25	2.9	2.4	e2.3	2.6	2.5	2.7	18	14	5.3	3.5	1.4	1.8
26	2.9	2.2	2.6	2.6	2.6	2.7	16	15	5.3	3.4	1.5	1.8
27	2.9	e1.5	2.6	2.6	2.5	2.7	18	15	5.1	3.4	1.9	2.0
28	2.8	1.7	2.6	2.5	2.5	2.5	19	14	4.8	3.4	1.6	2.1
29	2.9	1.8	2.6	2.6	---	2.1	17	14	4.7	4.6	1.5	2.1
30	2.9	2.1	2.6	2.6	---	e1.9	17	13	4.5	3.6	1.4	2.3
31	2.9	---	2.6	e1.8	---	2.5	---	13	---	3.2	1.4	---
TOTAL	90.9	77.9	79.1	76.2	70.5	78.6	381.6	508	214.8	120.3	59.8	52.9
MEAN	2.93	2.60	2.55	2.46	2.52	2.54	12.7	16.4	7.16	3.88	1.93	1.76
MAX	4.4	2.9	2.9	2.8	2.7	2.9	19	26	13	6.5	2.9	2.6
MIN	2.6	1.5	2.2	1.8	1.5	1.8	2.9	13	4.5	3.0	1.4	1.3
ACFT	180	155	157	151	140	156	757	1010	426	239	119	105

CAL YR 1984	TOTAL	2706.7	MEAN	7.40	MAX	76	MIN	1.5	ACFT	5370
WTR YR 1985	TOTAL	1810.6	MEAN	4.96	MAX	26	MIN	1.3	ACFT	3590

e Estimated.

CEDAR CITY VALLEY

337

10242000 COAL CREEK NEAR CEDAR CITY, UT

LOCATION.--Lat 37°40'20", long 113°02'02", in SE1/4SE1/4NE1/4 sec.13, T.36 S., R.11 W., Iron County, Hydrologic Unit 16030006, on right bank 600 ft downstream from powerplant, 1.2 mi east of Cedar City, and 3.0 mi from the mouth of Right Hand Creek.

DRAINAGE AREA.--80.9 mi².

PERIOD OF RECORD.--May to September 1915 (gage heights and discharge measurements only), October 1915 to July 1916, September 1916 to July 1918, September 1918 to November 1919, May 1935 to September 1937, April 1938 to current year. Records prior to November 1919 exclude flow of power canal; records would be equivalent if flow in canal were added.

REVISED RECORD.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,000 ft from topographic map. Prior to Mar. 30, 1939, nonrecording gages and Mar. 30, 1939 to May 14, 1945, water-stage recorder at several sites about 0.5 mi upstream at various datums. May 15, 1945 to Oct. 10, 1951, May 4 to July 2, 1952, water-stage recorder at site 2 mi upstream at different datum. July 3, 1952 to Nov. 17, 1967, water-stage recorder at site 600 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges and after July 30, which are poor. No diversion above station for irrigation. Diversion above station for municipal supply at Cedar City. Slight regulation at low flow by steam powerplant above station.

AVERAGE DISCHARGE.--49 years (1935-37, 1938-85), 33.9 ft³/s, 24,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft³/s July 23, 1969, gage height, 11.67 ft from floodmark, based on slope-area measurement of July 16, 1967 and applied to site and datum now in use; minimum, 0.3 ft³/s Nov. 5, 14, 17, 26, 1959, Feb. 17, 1960, Feb. 24, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 550 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 18	1600	946	6.05	July 19	1700	*3,840	*8.30

Minimum discharge, 8.2 ft³/s Dec. 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	13	e14	e12	e17	43	250	80	16	e20	e13
2	16	14	13	e14	e12	e16	75	302	74	15	e18	e13
3	14	14	15	e14	e12	13	83	352	71	14	e17	e13
4	14	14	14	e15	e13	e14	68	318	70	13	e16	e13
5	13	14	13	e15	e12	e16	75	276	68	13	e16	e13
6	13	14	14	16	e12	17	94	261	71	12	e15	e13
7	13	14	16	17	e13	16	108	238	76	12	e15	e13
8	13	15	18	15	14	16	115	213	77	13	e14	e13
9	13	15	15	14	14	21	132	209	77	16	e14	e13
10	13	15	14	13	e13	34	147	200	70	14	e14	e13
11	13	16	15	13	e13	28	155	157	58	23	e13	e13
12	36	16	15	12	14	23	173	144	55	15	e13	e13
13	17	16	12	e12	15	20	194	124	51	13	e14	e13
14	21	16	15	e11	16	21	219	119	48	12	e13	e13
15	16	16	e13	e11	20	22	251	124	45	13	e13	e13
16	14	16	9.1	e11	24	20	268	134	41	42	e13	e13
17	15	16	14	e11	23	21	265	139	36	57	e13	e13
18	15	16	17	e12	21	24	218	134	34	121	e13	e15
19	15	17	15	e12	21	25	163	121	31	71	e13	18
20	16	16	15	e13	20	26	141	113	29	37	e15	e15
21	17	16	12	e13	16	32	116	117	26	36	e13	e15
22	16	17	14	14	15	24	105	109	24	34	e13	e15
23	16	18	21	14	16	28	95	114	23	30	e13	e15
24	15	18	15	14	17	39	108	113	39	27	e13	e15
25	15	16	14	13	e17	40	107	117	39	26	e13	e15
26	16	14	16	13	18	33	78	115	27	26	e20	e15
27	16	13	15	14	18	28	93	106	23	28	e13	e15
28	15	13	15	15	18	24	129	96	20	48	e13	e15
29	16	e13	14	14	---	13	169	87	19	83	e13	e15
30	16	e13	14	13	---	e12	199	82	18	27	e13	e15
31	16	---	14	e12	---	e21	---	87	---	e22	e13	---
TOTAL	488	456	449.1	414	449	704	4186	5071	1420	929	442	419
MEAN	15.7	15.2	14.5	13.4	16.0	22.7	140	164	47.3	30.0	14.3	14.0
MAX	36	18	21	17	24	40	268	352	80	121	20	18
MIN	13	13	9.1	11	12	12	43	82	18	12	13	13
ACFT	968	904	891	821	891	1400	8300	10060	2820	1840	877	831
CAL YR 1984	TOTAL	14858.6	MEAN	40.6	MAX	399	MIN	8.6	ACFT	29470		
WTR YR 1985	TOTAL	15427.1	MEAN	42.3	MAX	352	MIN	9.1	ACFT	30600		

e Estimated.

RAFT RIVER BASIN

13077700 GEORGE CREEK NEAR YOST, UT

LOCATION.--Lat 41°55'07", long 113°28'51", in SE1/4SW1/4 sec.20, T.14 N., R.14 W., Box Elder County, Hydrologic Unit 17040201, on right bank 1,000 ft upstream from section corner and boundary of Sawtooth National Forest, 4.5 mi southeast of Yost, 5 mi south of Utah-Idaho State line, and 16 mi southwest of Strevell, Idaho.

DRAINAGE AREA.--7.84 mi².

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,000 ft from topographic map.

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

AVERAGE DISCHARGE.--26 years, 8.08 ft³/s, 5,850 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 295 ft³/s May 30, 1983, gage height, 1.78 ft; minimum, 1.0 ft³/s July 14-19, 1976, Feb. 5, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 46 ft³/s May 25, 26, gage height, 1.26 ft; minimum daily, 1.5 ft³/s Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	e3.8	3.1	2.3	e1.5	e2.3	e2.0	10	24	4.6	2.9	2.6
2	3.8	e4.2	3.0	2.3	e2.0	e2.5	2.6	16	21	4.3	2.8	3.0
3	3.8	e4.4	3.0	2.3	e2.5	e2.0	4.6	28	18	4.2	2.7	3.0
4	3.8	e3.8	3.0	2.3	e2.3	e2.0	5.1	31	17	4.3	2.5	3.0
5	4.2	e3.5	2.7	2.3	e2.3	e2.0	4.2	25	17	4.1	2.4	3.0
6	e4.1	e3.3	2.6	2.6	e2.5	e2.3	5.6	23	18	4.0	2.5	3.0
7	e4.0	e3.2	2.8	2.6	e2.6	e2.0	8.4	24	20	4.0	2.2	3.0
8	e3.9	e3.1	3.0	2.6	e3.0	e2.0	9.6	26	23	4.7	2.2	3.0
9	e4.1	e3.1	3.0	2.6	e2.5	e2.0	10	28	23	4.8	2.4	3.7
10	e4.4	e3.3	3.0	2.6	e2.2	e2.0	10	31	21	4.2	2.4	3.8
11	e4.5	e3.4	3.0	2.6	e2.0	e2.1	12	27	18	3.9	2.5	3.6
12	e4.5	e3.4	3.0	e2.3	e2.2	e2.3	12	22	17	4.1	2.5	3.8
13	e4.5	e3.2	3.0	e2.0	e2.4	1.9	11	19	16	3.7	2.4	3.6
14	e4.9	3.2	2.6	e2.2	e2.2	1.8	11	17	14	3.4	2.3	3.3
15	e5.2	2.7	2.7	e2.5	e2.0	2.0	15	16	13	3.1	2.3	3.0
16	e5.8	3.3	2.9	e2.5	e2.0	1.7	16	15	12	3.2	2.3	3.0
17	e6.0	3.0	2.8	e2.5	e2.0	2.1	16	15	12	3.2	2.4	3.0
18	e6.0	3.1	3.0	e2.5	e2.0	2.5	13	17	10	4.1	2.4	3.7
19	e6.0	3.1	e2.5	e2.5	e1.7	2.3	12	17	9.8	3.9	2.4	3.7
20	e6.0	3.0	e2.6	e2.5	e1.7	2.4	9.6	21	9.4	3.6	2.4	3.4
21	e5.8	3.0	e2.6	e2.5	e2.0	2.3	8.4	22	8.5	3.2	2.7	3.4
22	e5.4	3.0	2.8	e2.5	e2.1	e2.4	6.6	22	7.9	4.8	2.7	3.0
23	e5.2	2.9	2.6	e2.2	e2.2	e2.6	5.1	24	7.5	4.0	2.6	3.0
24	e5.4	3.1	2.6	e2.0	e2.5	e3.0	4.2	31	7.7	3.2	2.5	3.0
25	e5.2	3.1	2.6	e2.0	e2.5	e2.3	4.2	41	7.4	2.9	2.5	2.9
26	e4.9	3.0	2.6	e2.0	e2.1	e2.5	3.4	44	7.3	2.7	2.6	2.6
27	e4.7	2.9	2.9	e2.0	e2.0	e2.3	3.0	41	6.2	2.9	2.6	2.6
28	e4.8	3.4	2.9	e2.0	e2.0	e2.1	3.0	38	5.6	3.3	2.6	2.6
29	e5.0	3.4	2.6	e2.3	---	e2.1	3.8	36	5.4	3.7	2.8	2.6
30	e4.5	3.3	2.6	e2.5	---	e1.8	5.6	30	4.9	3.9	3.0	2.6
31	e4.1	---	2.6	e1.8	---	e2.0	---	24	---	3.2	3.0	---
TOTAL	148.4	98.2	86.7	72.4	61.0	67.6	237.0	781	401.6	117.2	78.5	93.5
MEAN	4.79	3.27	2.80	2.34	2.18	2.18	7.90	25.2	13.4	3.78	2.53	3.12
MAX	6.0	4.4	3.1	2.6	3.0	3.0	16	44	24	4.8	3.0	3.8
MIN	3.8	2.7	2.5	1.8	1.5	1.7	2.0	10	4.9	2.7	2.2	2.6
ACFT	294	195	172	144	121	134	470	1550	797	232	156	185
CAL YR 1984	TOTAL	3762.9	MEAN	10.3	MAX	120	MIN	1.4	ACFT	7460		
WTR YR 1985	TOTAL	2243.1	MEAN	6.15	MAX	44	MIN	1.5	ACFT	4450		

e Estimated.

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date Discharge (ft ³ /s)
GREEN RIVER BASIN					
Grassy Trail Creek	Price River	Lat 39°33'20", long 110°22'46, Carbon County, on left bank 13 mi upstream from mouth.		1978-84	10-02-84 2.6 12-11-84 2.3 02-13-85 1.6 03-04-85 2.6 04-11-85 5.5 05-16-85 34 06-12-85 15 07-19-85 3.7 08-13-85 3.7
SAN JUAN RIVER BASIN					
Montezuma Creek near Bluff	San Juan River	Lat 37°18'30", long 109°17'35"			06-06-85 26 06-19-85 5.9 07-29-85 .00 08-28-85 .00 09-03-85 .00

ANALYSIS OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Water-quality partial-record stations are particular sites where chemical-quality, biological and/or sediment data are collected systematically over a period of years for use in hydrologic analyses. These data are collected usually less than quarterly. Samples collected at sites other than gaging stations and partial-record stations to give better areal coverage in a river basin are referred to as miscellaneous sites.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

SAN JUAN RIVER BASIN

09378600 - MONTEZUMA CREEK NEAR BLUFF, UT (LAT 37°18'30", LONG 109°17'35")

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
JUN 19...	1430	5.9	820	8.1	35.5	32.5	280	5.5	71	24	67	34
SODIUM AD- SORP- TION RATIO		POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
1.8		2.9	160	210	32	0.3	13	420	0.57	6.7	<0.1	0.03
BORON DIS- SOLVED (UG/L AS B)		SEDIM- ENT, SUS- PENDED (MG/L)	SEDIM- ENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .125 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .250 MM			
70		504	8.0	45	54	63	74	89	100			

DISCHARGE MEASUREMENTS AT SOUTHERN PACIFIC TRANSPORTATION CO. CAUSEWAY

Compilation of data for flow through the two 15-ft culverts

GREAT SALT LAKE BASIN

EAST CULVERT
 Lat 41°13'17", Long 112°33'36"
 3.2 mi west along the railroad causeway
 from the east end of the causeway

WEST CULVERT
 Lat 41°13'24", Long 112°40'00"
 8.2 mi west along the railroad causeway
 from the east end of the causeway

Date of observation	Discharge (ft ³ /s)	Specific gravity	Temperature (°C)	Date of observation	Discharge (ft ³ /s)	Specific gravity	Temperature (°C)
Oct. 22, 1984	(a) 0 (b) 235	-- 1.138	-- 11.0	Oct. 22, 1984	(a) 55 (b) 500	1.044 1.108	11.0 11.0
Nov. 15	(a) 38 (b) 277	1.046 1.152	7.0 7.0	Nov. 15	(a) 35 (b) 600	1.046 1.160	7.5 8.5
Dec. 17	(a) 30 (b) 339	-- --	-- --	Dec. 17	(a) 44 (b) 640	1.042 1.132	.0 .0
Jan. 15, 1985	(a) 14 (b) 327	-- --	-- --	Jan. 15, 1985	(a) 29 (b) 587	-- --	-- --
Feb. 15	(a) 13 (b) 348	1.034 1.082	-0.5 -1.0	Feb. 28	(a) 0 (b) 448	-- 1.136	-- 1.5
June 13	(a) 0 (b) 323	-- 1.132	-- 24.0	June 13	(a) 0 (b) 261	-- 1.132	-- 23.5
Sep. 10	(a) 0 (b) 382	-- 1.142	-- 20.0	Sep. 10	(a) 0 (b) 304	-- 1.140	-- 22.5

Compilation of data through the 300 ft breach opening

Lat 41°13'20", Long 112°50'30"
 1.2 mi east of Lakeside and 1500 ft
 east of west shore

Date of observation	Discharge (ft ³ /s)	Specific gravity	Temperature (°C)
Oct. 9, 1984	(a) 5,230 (b) 5,180	1.039 1.044	18.0 9.0
Nov. 27	(a) 6,450	1.045	4.0
Jan. 22, 1985	(a) 3,970 (b) 489	1.044 1.145	0.5 -0.5
Mar. 12	(a) 3,170 (b) 1,030	1.041 1.145	3.0 3.5
Apr. 9	(a) 4,490 (b) 560	1.039 1.136	12.0 12.0
May 7	(a) 7,570 (b) 26	1.037 1.140	18.0 13.5
July 2	(a) 4,000 (b) 854	1.035 1.135	25.0 25.0
16	(a) 4,060 (b) 555	1.037 1.135	27.0 27.0
Aug. 20	(a) 3,830 (b) 620	1.039 1.140	24.0 23.0
Sep. 24	(a) 4,660 (b) 220	1.042 1.146	17.0 17.5

(a) Indicates flow from south to north
 (b) Indicates flow from north to south

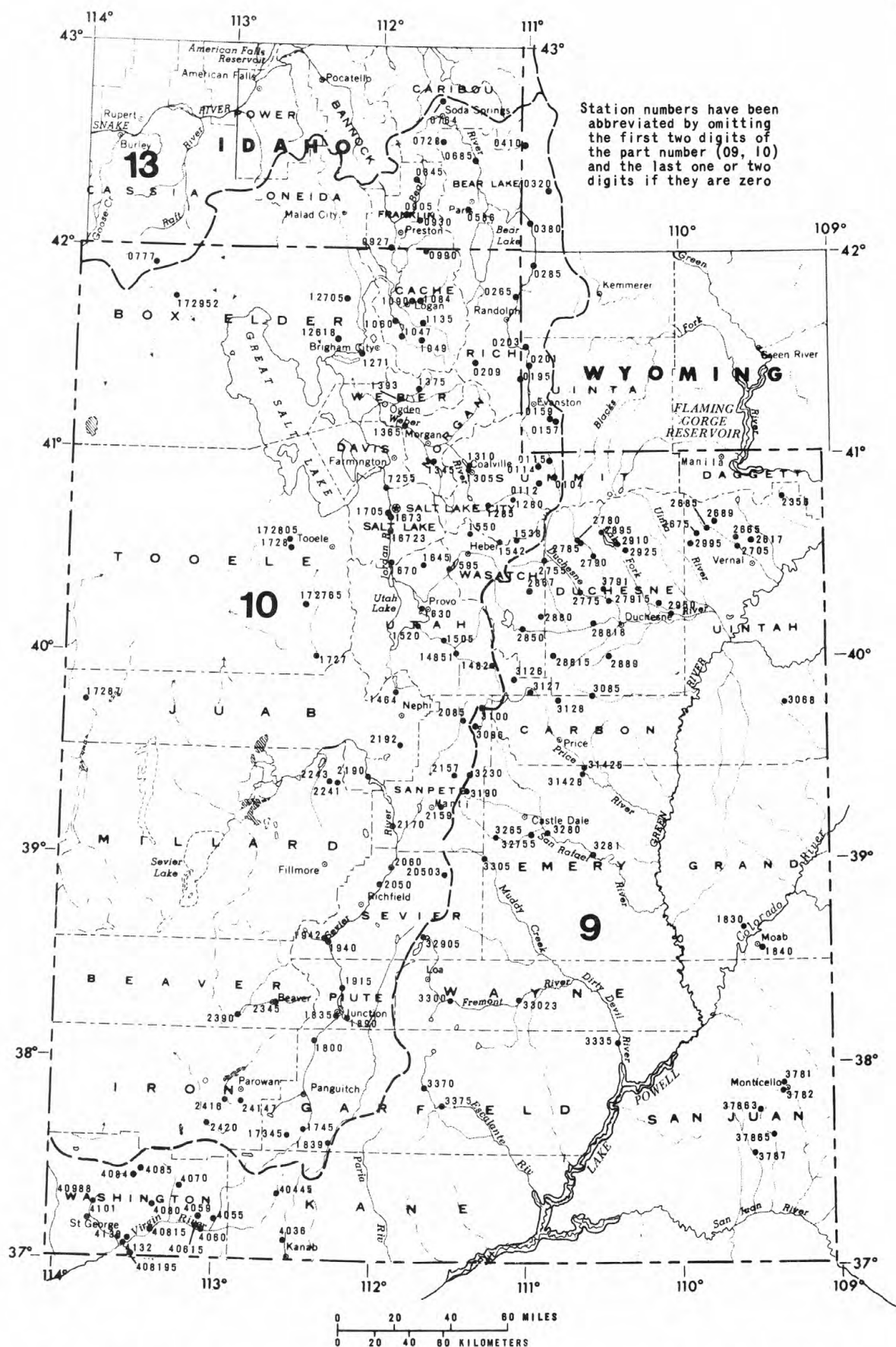


Figure 21.—Map showing location of sites in Utah where data were obtained on the specific conductance and temperature of surface water.

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
------	------	---	-----------------------------	---	------	------	---	-----------------------------	---

COLORADO RIVER BASIN
 TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER
 09183000 COURTHOUSE WASH NEAR MOAB, UT (LAT 38°36'46", LONG 109°34'45")

OCT , 1984					MAY , 1985				
30...	1005	.36	7.0	830	02...	0945	.41	14.0	920
DEC					JUN				
04...	1015	.56	1.0	890	04...	1310	.08	29.5	860
JAN , 1985					JUL				
10...	0955	1.5	2.5	860	10...	0830	.08	20.0	810
FEB					AUG				
15...	1400	1.5	9.0	790	01...	0830	.12	19.5	820
MAR					SEP				
14...	1015	.81	7.0	990	10...	0900	.10	15.0	810
APR									
08...	1005	.67	12.5	950					

09184000 MILL CREEK NEAR MOAB, UT (LAT 38°33'44", LONG 109°30'48")

OCT , 1984					MAY , 1985				
30...	1330	16	9.0	185	02...	1355	14	19.0	230
DEC					JUN				
04...	1440	18	2.5	220	04...	1000	22	12.5	160
JAN , 1985					JUL				
10...	1240	4.4	5.5	260	02...	1045	13	19.0	250
FEB					AUG				
15...	1545	4.1	5.0	260	01...	1040	12	30.5	200
MAR					SEP				
14...	1255	5.3	10.0	270	10...	1015	5.8	14.0	200
APR									
08...	1250	7.6	13.5	285					

GREEN RIVER BASIN
 09235600 POT CREEK ABOVE DIVERSIONS, NEAR VERNAL, UT (LAT 40°46'05", LONG 109°19'06")

OCT , 1984					MAY , 1985				
09...	0950	1.2	5.5	--	07...	1135	23	11.5	140
NOV					31...	0730	4.6	7.5	130
08...	1350	2.4	.0	400	JUL				
DEC					02...	0805	.83	13.0	145
07...	1130	.74	.0	305	AUG				
APR , 1985					08...	1030	.52	15.0	265
18...	1415	34	11.5	145					

09261700 BIG BRUSH CREEK ABOVE RED FLEET RESERVOIR, NEAR VERNAL, UT
 (LAT 40°35'20", LONG 109°27'53")

OCT , 1984					MAY , 1985				
25...	1355	29	8.0	480	06...	1440	237	7.5	105
DEC					15...	1415	216	8.0	110
05...	1500	22	3.5	400	JUN				
JAN , 1985					03...	1330	130	--	150
08...	1230	22	5.0	420	24...	1100	39	13.0	280
FEB					JUL				
12...	1215	18	4.0	485	17...	1130	42	14.0	280
MAR					AUG				
21...	1230	18	8.0	490	23...	0745	41	10.0	260
APR									
18...	0905	205	5.0	120					

09266500 ASHLEY CREEK NEAR VERNAL, UT (LAT 40°34'39", LONG 109°37'17")

OCT , 1984					MAY , 1985				
12...	0935	62	8.5	150	14...	1250	306	6.0	67
DEC					JUN				
10...	1330	42	6.5	160	04...	1115	190	8.0	67
FEB					24...	1445	94	10.0	110
13...	1155	28	7.0	175	AUG				
MAR , 1985					06...	1025	112	11.0	115
19...	1330	28	8.0	175					
APR									
22...	1030	197	4.0	70					

09267500 MOSBY CANAL NEAR LAPOINT, UT (LAT 40°36'30", LONG 109°53'00")

OCT , 1984					JUL , 1985				
10...	1300	12	9.5	<50	03...	0740	18	12.0	<50
MAY , 1985					AUG				
30...	1005	18	7.5	<50	07...	0730	20	12.0	<50

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
GREEN RIVER BASIN--Continued									
09268500 NORTH FORK OF DRY FORK NEAR DRY FORK, UT (LAT 40°38'34", LONG 109°48'37")									
OCT , 1984					APR , 1985				
02... 1255	3.3	5.0	90		25... 1210	8.7	1.0	<50	
NOV 07... 1440	2.4	2.0	<50		MAY 23... 0730	18	3.5	<50	
JAN , 1985					JUN 20... 1030	7.8	7.0	<50	
10... 1400	.88	.0	--		AUG 02... 1520	10	9.5	<50	
MAR 06... 1500	1.2	1.0	<50						
APR 11... 0900	4.4	2.0	<50						
09268900 BROWNIE CANYON ABOVE SINKS, NEAR DRY FORK, UT (LAT 40°39'34", LONG 109°45'01")									
OCT , 1984					MAY , 1985				
02... 0845	11	3.5	<50		20... 1305	27	4.0	<50	
NOV 07... 1205	4.5	1.0	<50		JUN 20... 1300	22	8.0	<50	
JAN , 1985					JUL 25... 1000	36	6.0	<50	
10... 1200	1.9	.0	--		AUG 22... 0900	8.6	6.0	<50	
MAR 06... 1115	1.7	.0	<50						
APR 25... 0830	11	1.0	<50						
09270500 DRY FORK AT MOUTH, NEAR DRY FORK, UT (LAT 40°31'35", LONG 109°36'18")									
OCT , 1984					APR , 1985				
25... 1055	4.2	4.0	150		18... 0705	16	7.5	530	
DEC 06... 1320	3.0	.0	970		MAY 06... 1230	117	10.0	150	
JAN , 1985					23... 0940	101	8.0	170	
09... 1030	3.9	.0	870		JUN 21... 1320	66	15.5	155	
FEB 20... 1120	2.8	.5	--		JUL 25... 1350	76	18.0	195	
MAR 19... 1000	5.8	5.0	870		AUG 22... 1445	6.0	22.5	470	
APR 08... 1445	1.5	6.0	820						
09275500 WEST FORK DUCHESNE RIVER NEAR HANNA, UT (LAT 40°27'01", LONG 110°53'01")									
OCT , 1984					MAY , 1985				
03... 0940	30	5.5	--		22... 1200	262	7.5	315	
FEB , 1985					JUN 12... 1415	155	13.0	325	
21... 1400	16	.0	495		JUL 03... 1250	63	15.5	400	
APR 02... 1020	22	4.0	465		30... 1025	43	11.5	440	
25... 1000	81	3.0	400						
MAY 08... 1200	314	6.0	295						
09277500 DUCHESNE RIVER NEAR TABIONA, UT (LAT 40°18'01", LONG 110°36'06")									
OCT , 1984					MAY , 1985				
03... 1310	216	12.0	510		08... 1600	1000	10.0	195	
NOV 14... 1240	174	5.0	425		21... 1500	687	10.5	245	
JAN , 1985					JUN 12... 0930	810	9.5	235	
09... 1035	122	2.5	440		JUL 03... 0830	199	12.0	450	
FEB 21... 1625	104	5.0	530		30... 1340	228	17.0	440	
APR 02... 1225	141	10.0	430		SEP 18... 1105	116	11.0	550	
25... 1240	307	5.5	305						
09278000 SOUTH FORK ROCK CREEK NEAR HANNA, UT (LAT 40°32'54", LONG 110°41'37")									
OCT , 1984					MAY , 1985				
09... 1340	10	4.5	220		23... 1400	40	--	--	
NOV 21... 1330	5.7	.0	215		JUN 10... 1100	74	5.5	140	
FEB , 1985					JUL 02... 0930	27	5.5	155	
06... 1200	3.5	.0	230		AUG 01... 0750	16	6.5	170	
MAR 14... 1145	3.4	1.0	245		SEP 17... 1645	9.1	15.5	185	
APR 15... 1140	16	4.0	145						
MAY 10... 0950	48	3.0	115						

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
------	------	---	-----------------------------	---	------	------	---	-----------------------------	---

GREEN RIVER BASIN--Continued

09278500 ROCK CREEK NEAR HANNA, UT (LAT 40°32'44", LONG 110°39'20")

OCT , 1984					MAY , 1985				
09...	1450	86	8.0	60	23...	1300	577	5.5	<50
NOV					JUN				
21...	1125	62	.5	58	10...	1315	863	9.0	<50
JAN , 1985					JUL				
28...	1700	37	.0	71	02...	1215	207	11.5	<50
MAR					AUG				
14...	1040	25	1.0	73	01...	1005	156	11.0	54
APR					SEP				
15...	1415	157	7.0	52	16...	1900	61	11.0	55
MAY									
10...	1200	631	3.0	<50					

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT (LAT 40°29'36", LONG 110°34'39")

OCT , 1984					MAY , 1985				
09...	1730	113	9.5	120	16...	2015	363	8.0	61
NOV					JUN				
21...	0855	66	.0	120	10...	1720	896	11.0	<50
JAN , 1985					JUL				
28...	1430	70	.0	155	02...	1450	246	14.0	69
MAR					AUG				
14...	1420	62	3.0	155	01...	1150	190	12.5	97
APR					SEP				
15...	1745	201	9.5	85	17...	1920	78	7.0	130

09279100 ROCK CREEK NEAR TALMAGE, UT (LAT 40°18'40", LONG 110°29'36")

OCT , 1984					MAY , 1985				
04...	1630	153	12.0	160	17...	1020	412	7.5	100
NOV					JUN				
14...	0810	91	2.5	190	07...	1250	863	11.5	54
FEB , 1985					25...	1420	408	11.0	85
22...	1000	32	.0	280	JUL				
MAR					26...	0750	174	14.0	130
21...	1320	63	4.5	305	SEP				
APR					18...	1635	87	11.5	200
25...	1600	306	5.5	160					

09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UT
(LAT 40°16'14", LONG 110°26'31")

OCT , 1984					MAY , 1985				
04...	1820	328	13.0	310	02...	1040	998	9.5	205
NOV					17...	0755	872	7.5	--
14...	1000	288	2.5	375	JUN				
JAN , 1985					07...	1030	1750	11.0	145
08...	1630	223	.5	380	25...	1100	673	11.0	235
FEB					JUL				
22...	1150	182	1.5	405	26...	0920	392	14.5	--
APR					SEP				
02...	1500	240	11.0	400	16...	1820	213	16.5	460
16...	1615	690	15.0	245					

09285000 STRAWBERRY RIVER NEAR SOLDIER SPRINGS, UT (LAT 40°08'00", LONG 111°01'27")

OCT , 1984					APR , 1985				
05...	1645	233	12.5	360	23...	1600	24	4.5	375
NOV					MAY				
08...	1430	13	6.5	365	22...	1550	23	7.0	355
DEC					JUN				
07...	1305	13	4.0	390	21...	1600	23	9.0	380
JAN , 1985					JUL				
07...	1215	28	4.0	370	29...	1730	30	8.5	375
MAR					SEP				
20...	1430	13	6.5	365	19...	1830	25	9.0	350

09286700 CURRANT CREEK BELOW CURRANT CREEK DAM NEAR FRUITLAND, UT
(LAT 40°19'51", LONG 111°02'56")

OCT , 1984					APR , 1985				
03...	1600	7.4	14.0	360	24...	1430	49	5.0	390
NOV					MAY				
09...	1155	3.7	3.0	400	21...	2030	22	7.0	--
DEC					JUN				
07...	1640	15	1.0	510	20...	1810	21	9.0	310
JAN , 1985					SEP				
07...	1400	18	3.0	450	19...	1445	12	13.5	285
MAR									
05...	1600	14	4.0	440					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

345

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
GREEN RIVER BASIN--Continued									
09288000 CURRANT CREEK NEAR FRUITLAND, UT (LAT 40°12'01", LONG 110°54'25")									
OCT , 1984					MAY , 1985				
05...	1530	43	12.0	500	21...	1845	79	14.0	415
NOV					JUN				
09...	1455	40	3.5	480	21...	1255	59	15.0	480
JAN , 1985					JUL				
07...	1640	60	.5	475	29...	1945	43	18.0	450
MAR					SEP				
05...	1800	57	1.0	455	19...	1020	54	8.5	415
19...	1445	43	9.0	470					
APR									
23...	1735	71	9.5	470					
09288150 WEST FORK AVINTAQUIN CREEK NEAR FRUITLAND, UT (LAT 39°59'35", LONG 110°48'51")									
OCT , 1984					MAY , 1985				
05...	1050	4.9	8.0	600	01...	1610	44	12.0	495
NOV					22...	1120	62	9.5	465
08...	1000	3.6	5.0	620	JUN				
DEC					20...	1600	14	19.0	530
06...	1335	2.6	4.0	640	JUL				
JAN , 1985					30...	1100	9.0	14.5	530
28...	1130	2.1	3.0	650	SEP				
MAR					20...	1755	.38	13.0	670
20...	1540	12	7.0	670					
09288180 STRAWBERRY RIVER NEAR DUCHESNE, UT (LAT 40°09'17", LONG 110°33'15")									
OCT , 1984					MAY , 1985				
04...	--	368	--	--	21...	1645	418	13.0	610
NOV					JUN				
07...	1430	110	5.0	830	21...	0930	160	16.5	590
DEC					JUL				
07...	1655	93	.5	870	30...	1810	147	19.0	790
MAR , 1985					SEP				
19...	1255	151	7.5	930	18...	1945	125	11.0	790
APR									
25...	0930	331	5.5	640					
09288900 SOWERS CREEK NEAR DUCHESNE, UT (LAT 39°59'22", LONG 110°27'33")									
OCT , 1984					APR , 1985				
11...	1440	3.2	10.5	1200	24...	0915	4.7	2.5	1120
NOV					MAY				
14...	1445	3.1	3.0	1220	22...	1800	4.6	18.0	1100
DEC					JUN				
07...	0935	1.2	.0	1450	20...	1100	4.0	12.0	1940
JAN , 1985					AUG				
08...	1130	2.5	2.0	1300	09...	--	3.2	15.0	1200
MAR					SEP				
20...	1800	8.3	6.5	910	20...	0950	2.9	5.0	1280
09289500 LAKE FORK RIVER ABOVE MOON LAKE, NEAR MOUNTAIN HOME, UT (LAT 40°36'24", LONG 110°31'35")									
OCT , 1984					MAY , 1985				
10...	1200	76	5.0	<50	09...	1445	359	3.5	<50
NOV					23...	0930	317	3.0	<50
19...	1100	42	.0	<50	JUN				
JAN , 1985					11...	0800	438	3.5	<50
29...	1230	33	.0	<50	JUL				
MAR					01...	1630	137	10.5	<50
20...	1300	23	2.0	<50	31...	0920	118	7.0	<50
APR									
24...	1520	75	5.5	<50					
09291000 LAKE FORK RIVER BELOW MOON LAKE, NEAR MOUNTAIN HOME, UT (LAT 40°33'23", LONG 110°29'02")									
OCT , 1984					JUN , 1985				
10...	1430	89	10.0	<50	11...	1220	555	10.5	<50
MAR , 1985					JUL				
20...	1130	16	2.0	<50	01...	1800	393	13.0	<50
APR					31...	1420	311	11.0	<50
16...	0850	59	4.0	53					
MAY									
16...	1725	430	6.0	<50					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
GREEN RIVER BASIN--Continued									
09292500 YELLOWSTONE RIVER NEAR ALTONAH, UT (LAT 40°30'43", LONG 110°20'27")									
OCT , 1984					MAY , 1985				
11...	1100	125	6.0	70	09...	0950	364	4.5	<50
NOV					22...	1800	242	10.5	52
19...	1450	81	2.0	82	JUN				
JAN , 1985					11...	1700	475	12.0	<50
29...	1430	74	.0	125	JUL				
MAR					08...	1310	185	15.5	54
20...	1030	48	2.5	120	31...	1630	188	15.0	54
APR									
16...	1235	117	8.5	79					
09295000 DUCHESNE RIVER AT MYTON, UT (LAT 40°12'01", LONG 110°03'47")									
OCT , 1984					MAY , 1985				
11...	1820	896	13.0	660	15...	1845	692	14.5	510
NOV					JUN				
14...	1720	927	6.0	660	03...	1815	1130	15.5	460
FEB , 1985					10...	1240	2660	16.5	--
26...	1415	301	.5	680	JUL				
MAR					25...	1745	315	24.0	750
19...	1645	354	5.5	1050	SEP				
APR					19...	1500	153	15.5	1470
12...	1240	278	13.0	840					
25...	1245	243	9.0	600					
09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UT (LAT 40°35'13", LONG 109°55'37")									
OCT , 1984					NOV , 1984				
26...	1240	70	6.0	58	15...	0950	41	.0	83
09306800 BITTER CREEK NEAR BONANZA, UT (LAT 39°45'12", LONG 110°35'00")									
OCT , 1984					APR , 1985				
10...	1410	14	12.5	2980	18...	1500	21	13.5	3240
NOV					MAY				
02...	1200	14	5.0	2700	20...	1555	26	15.5	2750
FEB , 1985					JUL				
12...	1435	17	.0	3280	01...	1530	15	23.5	2850
MAR					AUG				
29...	1330	19	.5	3110	05...	1630	14	22.5	3160
09308500 MINNIE MAUD CREEK NEAR MYTON, UT (LAT 39°47'55", LONG 110°33'55")									
OCT , 1984					MAY , 1985				
02...	1300	7.3	11.0	810	17...	0930	36	5.5	500
NOV					JUN				
15...	0940	.59	.0	1000	13...	1000	12	13.0	780
JAN , 1985					JUL				
28...	1315	2.9	.0	930	19...	0900	4.5	13.5	840
MAR					AUG				
20...	1730	5.8	6.0	--	14...	0920	3.1	10.5	820
APR					SEP				
12...	0930	41	5.5	560	12...	0920	3.5	8.0	670
09309600 FAIRVIEW TUNNEL NEAR FAIRVIEW, UT (LAT 39°40'03", LONG 111°18'41")									
OCT , 1984					AUG , 1985				
04...	1500	.80	10.0	390	14...	1100	20	15.0	260
JUL , 1985					SEP				
10...	1145	16	18.0	280	11...	1040	9.1	8.5	190
09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UT (LAT 39°42'57", LONG 111°17'58")									
OCT , 1984					JUL , 1985				
04...	1310	13	9.5	--	10...	1430	12	22.5	175
NOV					AUG				
08...	1100	8.9	.5	270	14...	1410	7.9	19.0	135
JAN , 1985					SEP				
17...	1120	7.7	.0	415	11...	1320	5.4	10.0	185
FEB									
15...	--	6.5	4.5	--					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

347

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
GREEN RIVER BASIN--Continued									
09312600 WHITE RIVER BELOW TABBYUNE CREEK, NEAR SOLDIER SUMMIT, UT (LAT 39°52'33", LONG 111°02'12')									
OCT , 1984					JUN , 1985				
29...	1215	12	4.0	720	04...	1700	63	17.0	590
DEC					JUL				
10...	1530	7.0	.0	700	08...	1850	18	24.5	620
JAN , 1985					AUG				
26...	1210	11	.0	--	12...	1900	7.5	19.0	680
FEB					SEP				
12...	1150	5.7	.5	350	09...	1840	5.3	14.5	640
MAR									
21...	--	22	.0	275					
09312700 BEAVER CREEK NEAR SOLDIER SUMMIT, UT (LAT 39°49'50", LONG 110°58'07")									
OCT , 1984					MAY , 1985				
26...	1340	4.4	2.0	520	08...	1230	39	11.0	325
DEC					JUN				
10...	1630	2.2	.0	450	05...	1200	14	12.0	410
JAN , 1985					JUL				
26...	1425	2.7	.0	--	09...	1400	2.3	23.5	415
FEB					AUG				
12...	1440	1.4	.5	470	13...	1210	1.3	14.0	460
MAR					SEP				
21...	1600	3.7	4.0	435	10...	1300	.68	12.5	460
09312800 WILLOW CREEK NEAR CASTLE GATE, UT (LAT 39°46'37", LONG 110°47'30")									
OCT , 1984					JUN , 1985				
26...	1200	3.8	1.0	1290	05...	1030	17	10.0	840
DEC					JUL				
11...	1035	2.2	.0	630	09...	1010	5.1	15.0	940
FEB , 1985					AUG				
12...	1000	2.2	.5	580	13...	0935	3.3	8.0	1020
MAY					SEP				
08...	1010	43	6.0	630	10...	1010	1.7	7.5	1040
09314250 PRICE RIVER BELOW MILLER CREEK, NEAR WELLINGTON, UT (LAT 39°26'59", LONG 110°37'38")									
OCT , 1984					MAY , 1985				
04...	1110	210	19.0	1350	16...	1100	636	13.0	790
NOV					JUN				
14...	1130	223	5.0	1230	12...	1050	182	18.0	1350
DEC					JUL				
11...	1315	94	1.0	2180	18...	1350	81	--	1750
FEB , 1985					AUG				
14...	0935	56	.0	2280	13...	1115	75	18.0	2300
MAR					SEP				
13...	1100	107	5.5	3220	12...	1335	285	10.5	1520
APR									
11...	1400	570	11.0	760					
09314280 DESERT SEEP WASH NEAR WELLINGTON, UT (LAT 39°25'16", LONG 110°38'44")									
OCT , 1984					MAY , 1985				
04...	0920	122	17.0	2380	16...	0920	80	14.5	3300
NOV					JUN				
14...	1320	19	5.5	5530	12...	0915	68	17.0	2170
DEC					JUL				
11...	1415	41	1.0	3120	18...	1435	23	25.5	2660
FEB , 1985					AUG				
13...	1340	9.6	.0	7850	13...	0900	24	13.5	2880
MAR					SEP				
13...	0915	60	1.5	5170	12...	1135	102	11.0	1520
APR									
11...	1055	73	11.5	2060					
09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UT (LAT 39°19'47", LONG 111°25'51")									
OCT , 1984					AUG , 1985				
05...	1615	1.8	8.0	--	15...	1020	.42	7.5	--
JUL , 1985					SEP				
11...	1010	3.3	10.5	255	12...	1030	.12	1.5	310

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
GREEN RIVER BASIN--Continued									
09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UT (LAT 39°25'34", LONG 111°21'51")									
OCT , 1984					AUG , 1985				
05... 1115		1.9	2.0	280	15... 1500		1.7	13.0	310
JUL , 1985					SEP				
11... 1630		4.4	13.0	325	12... 1750		2.0	7.0	250
09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UT (LAT 39°06'15", LONG 111°12'47")									
OCT , 1984					MAY , 1985				
02... 1400		50	8.5	430	16... 0950		217	5.5	510
NOV					JUN				
15... 1235		28	.0	590	12... 1245		267	10.5	440
DEC					JUL				
11... 1240		23	.0	530	18... 0900		59	14.5	440
FEB , 1985					AUG				
13... 1300		14	.0	580	13... 0945		32	11.0	480
MAR					SEP				
11... 1225		20	2.5	590	12... 0950		26	6.5	460
APR									
11... 1240		106	7.5	510					
09327550 FERRON CREEK BELOW PARADISE RANCH, NEAR CLAWSON, UT (LAT 39°07'09", LONG 110°59'20")									
NOV , 1984					MAY , 1985				
15... 1005		19	1.5	2350	16... 1330		73	14.0	1390
DEC					JUN				
11... 1420		12	.0	3120	12... 0930		175	14.5	920
FEB , 1985					JUL				
13... 1015		4.9	.0	2820	18... 1200		34	20.5	2210
MAR					AUG				
11... 1500		12	3.5	4770	13... 1510		22	22.5	1850
APR									
11... 1000		5.9	13.0	3150					
09328000 SAN RAFAEL RIVER NEAR CASTLE DALE, UT (LAT 39°08'37", LONG 110°53'50")									
NOV , 1984					MAY , 1985				
14... 1520		136	5.5	2360	15... 1450		477	14.5	1150
DEC					JUN				
10... 1430		99	.0	2190	11... 1530		1010	17.0	750
FEB , 1985					JUL				
12... 1405		113	.0	1720	17... 1400		123	23.5	2110
MAR					AUG				
12... 1115		331	3.5	2420	12... 1505		65	28.0	2550
APR					SEP				
10... 1500		178	13.5	1250	11... 1340		63	13.5	2880
09328100 SAN RAFAEL RIVER AT SAN RAFAEL BRIDGE CAMPGROUND, NEAR CASTLE DALE, UT (LAT 39°04'51", LONG 110°39'56")									
NOV , 1984					MAY , 1985				
14... 1115		139	5.0	2400	15... 1130		456	14.5	1180
DEC					JUN				
10... 1125		110	.0	2210	11... 1045		1030	16.5	720
FEB , 1985					JUL				
12... 1140		94	.0	1780	17... 1040		93	22.5	2250
MAR					AUG				
12... 1430		349	5.5	1780	12... 0840		69	15.0	2670
APR					SEP				
10... 1130		194	13.5	1500	11... 1045		68	14.0	2620
DIRTY DEVIL RIVER BASIN									
09329050 SEVEN MILE CREEK NEAR FISH LAKE, UT (LAT 38°37'40", LONG 111°38'50")									
OCT , 1984					JUN , 1985				
12... 1000		18	2.5	135	04... 1510		38	12.0	130
NOV					JUL				
01... 1030		12	.5	--	03... 1420		18	15.0	140
FEB , 1985					AUG				
25... 1405		9.7	.5	--	12... 1435		14	12.0	120
APR					SEP				
10... 1025		19	2.0	--	20... 1035		13	--	145
MAY									
02... 1440		58	4.0	130					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

349

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
DIRTY DEVIL RIVER BASIN--Continued									
09330000 FREMONT RIVER NEAR BICKNELL, UT (LAT 38°18'25", LONG 111°31'03")									
OCT , 1984					APR , 1985				
10...	--	149	12.0	460	29...	1715	179	17.0	460
DEC					MAY				
12...	1320	147	2.5	430	21...	1215	119	10.0	520
JAN , 1985					JUN				
15...	1735	130	2.5	410	11...	1255	68	17.0	560
FEB					JUL				
13...	1735	140	5.0	450	31...	1620	82	22.5	530
MAR					AUG				
20...	1610	180	5.0	490	20...	1330	71	16.0	470
APR					SEP				
10...	1620	762	10.0	580	18...	1350	84	10.0	485
09330230 FREMONT RIVER NEAR CAINEVILLE, UT (LAT 38°16'40", LONG 111°04'00")									
OCT , 1984					MAY , 1985				
09...	1250	100	15.5	600	01...	0905	173	12.0	530
NOV					21...	1420	97	13.0	660
27...	1325	87	.5	580	JUN				
DEC					11...	1455	33	26.0	770
12...	1615	136	5.0	500	JUL				
JAN , 1985					26...	1905	69	18.0	820
15...	1200	131	.0	410	AUG				
FEB					20...	1455	37	25.0	680
15...	1210	158	2.0	500	SEP				
MAR					18...	1545	58	15.0	700
22...	1235	166	7.0	530					
APR									
11...	1645	632	12.0	415					
09330500 MUDDY CREEK NEAR EMERY, UT (LAT 38°58'55", LONG 111°14'55")									
NOV , 1984					MAY , 1985				
16...	0930	30	1.0	435	15...	1410	140	13.0	415
DEC					JUN				
11...	1025	25	.0	420	11...	1330	223	12.0	350
FEB , 1985					JUL				
12...	1315	12	.0	510	18...	1345	74	18.0	320
MAR					AUG				
11...	1335	22	4.5	330	12...	1615	35	19.0	365
APR					SEP				
10...	1540	113	8.5	450	11...	1310	59	10.0	385
09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UT (LAT 38°05'50", LONG 110°24'27")									
OCT , 1984					APR , 1985				
10...	0845	98	12.0	2050	11...	1140	766	15.0	1220
NOV					30...	1520	274	22.0	1360
28...	1045	89	1.0	1280	MAY				
DEC					22...	0930	185	15.5	1470
13...	0845	216	2.0	1290	JUN				
JAN , 1985					12...	0945	100	19.0	1670
16...	1240	92	.0	1020	AUG				
FEB					13...	1100	.58	23.0	--
14...	1320	266	2.0	1110	21...	--	.00	--	--
MAR									
21...	1500	232	11.5	1140					
ESCALANTE RIVER BASIN									
09337000 PINE CREEK NEAR ESCALANTE, UT (LAT 37°51'45", LONG 111°38'07")									
OCT , 1984					APR , 1985				
11...	1415	3.8	12.0	390	30...	1115	14	9.0	420
NOV					JUN				
15...	1420	4.7	3.0	350	12...	1245	8.1	15.5	470
JAN , 1985					JUL				
07...	1435	5.5	.5	400	25...	1455	7.4	18.0	405
FEB					AUG				
15...	1155	4.6	.0	390	15...	1500	8.9	15.0	315
MAR									
20...	1240	4.6	6.5	460					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
ESCALANTE RIVER BASIN--Continued 09337500 ESCALANTE RIVER NEAR ESCALANTE, UT (LAT 37°46'41", LONG 111°34'26")									
OCT , 1984					APR , 1985				
11... 1255	3.3	12.5	1530	30... 1040	14	11.5	890		
NOV				JUN					
15... 1150	6.3	5.0	1030	12... 1100	12	19.5	790		
JAN , 1985				JUL					
07... 1310	17	1.0	820	25... 1320	8.2	23.0	990		
FEB				AUG					
15... 1030	20	1.0	840	15... 1340	1.9	25.0	1980		
MAR									
20... 1105	20	7.5	830						
SAN JUAN RIVER BASIN 09378100 NORTH CREEK ABOVE RANGER STATION, NEAR MONTICELLO, UT (LAT 37°52'23", LONG 109°21'57")									
OCT , 1984				APR , 1985					
09... 1605	.00	--	--	29... 1620	1.9	12.5	300		
NOV				MAY					
29... 1430	.00	--	--	29... 1515	2.0	12.5	150		
DEC				JUN					
18... 1430	.00	--	--	18... 1430	14	15.0	160		
FEB , 1985				JUL					
25... 1335	.00	--	--	30... 1530	.00	--	--		
MAR				AUG					
26... 1600	.43	8.0	650	28... 1655	.00	--	--		
09378200 MONTEZUMA CREEK AT GOLF COURSE, AT MONTICELLO, UT (LAT 37°51'38", LONG 109°20'30")									
OCT , 1984				MAY , 1985					
09... 1515	.11	13.5	640	29... 1320	22	14.0	215		
NOV				MAY					
29... 1415	.07	.0	500	29... 1310	38	12.0	190		
DEC				JUN					
18... 1320	.04	.0	790	18... 1330	5.4	17.5	200		
FEB , 1985				JUL					
25... 1445	1.6	5.0	410	30... 1420	.22	19.0	550		
MAR				AUG					
26... 1330	18	8.5	250	29... 0840	.03	14.5	750		
09378630 RECAPTURE CREEK NEAR BLANDING, UT (LAT 37°45'20", LONG 109°28'33")									
OCT , 1984				MAY , 1985					
11... 0930	.01	14.5	260	30... 1245	8.6	8.0	110		
NOV				JUN					
29... 1020	.01	.0	340	20... 1215	.59	16.5	180		
FEB , 1985				JUL					
27... 1010	.09	1.0	150	30... 1240	.13	22.0	190		
APR				AUG					
16... 1105	18	8.0	110	29... 1200	.01	22.5	120		
30... 1335	12	12.0	100						
09378650 RECAPTURE CREEK BELOW JOHNSON CREEK, NEAR BLANDING, UT (LAT 37°40'51", LONG 109°27'43")									
OCT , 1984				APR , 1985					
10... 1645	.00	--	--	30... 1235	96	12.0	160		
NOV				MAY					
29... 1050	.00	--	--	30... 1050	54	12.0	170		
DEC				JUN					
19... 1615	.00	--	--	20... 1010	11	14.5	200		
FEB , 1985				JUL					
26... 1600	.62	8.0	310	30... 1150	.02	20.5	390		
MAR				AUG					
27... 1425	19	5.5	210	29... 1300	.00	--	--		
APR									
16... 1515	120	11.5	150						
09378700 COTTONWOOD WASH NEAR BLANDING, UT (LAT 37°33'38", LONG 109°34'41")									
OCT , 1984				APR , 1985					
10... 1430	.48	18.5	540	30... 1015	20	14.5	530		
NOV				MAY					
29... 1145	2.9	.0	510	30... 0930	6.0	12.5	390		
DEC				JUN					
19... 1400	2.4	6.0	820	20... 0800	1.5	16.5	380		
FEB , 1985				JUL					
26... 1405	6.8	13.5	500	30... 0830	1.2	19.0	480		
MAR				AUG					
27... 0915	12	7.5	480	28... 1600	.00	--	--		

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

351

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
KANAB CREEK BASIN									
09403600 KANAB CREEK NEAR KANAB, UT (LAT 37°06'02", LONG 112°32'50")									
OCT , 1984					APR , 1985				
03... 1350	8.9	16.0	520	03... 1345	36	18.0	830		
NOV 09... 1140	12	8.0	850	MAY 14... 1255	8.8	22.0	680		
DEC 11... 1240	14	7.0	550	JUN 07... 1055	7.7	18.0	530		
JAN , 1985				JUL 05... 1400	7.4	--	490		
07... 1235	14	4.0	760	31... 1300	8.5	26.0	680		
FEB 12... 1250	15	10.5	690	SEP 09... 1225	8.4	20.0	500		
28... 1225	18	10.0	970						
MAR 14... 1220	32	9.0	850						
VIRGIN RIVER BASIN									
09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UT (LAT 37°20'19", LONG 112°36'13")									
OCT , 1984				APR , 1985					
03... 1525	14	11.0	520	03... 1105	41	12.0	600		
NOV 09... 1400	18	7.0	495	MAY 14... 1040	27	9.0	600		
DEC 11... 1405	21	7.5	495	JUN 07... 0940	18	12.0	550		
JAN , 1985				JUL 05... 1625	8.8	20.0	485		
07... 1055	21	3.0	530	31... 1105	12	13.0	510		
FEB 12... 1050	18	5.0	470	SEP 09... 1045	9.2	13.0	510		
MAR 14... 1130	22	5.0	550						
09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UT (LAT 37°12'35", LONG 112°58'40")									
OCT , 1984				MAY , 1985					
03... 1340	42	14.5	740	02... 1040	531	9.5	390		
31... 1245	44	10.0	720	16... 1115	233	12.0	490		
DEC 12... 1235	61	6.5	750	JUN 07... 1010	92	15.0	620		
JAN , 1985				JUL 10... 1740	92	25.0	560		
14... 1240	56	3.0	820	AUG 07... 0910	39	14.0	750		
FEB 13... 1155	61	5.0	750	SEP 11... 1500	59	22.0	660		
MAR 19... 1420	114	10.5	650						
APR 09... 1415	473	9.0	430						
09405900 NORTH CREEK NEAR VIRGIN, UT (LAT 37°14'14", LONG 113°09'01")									
NOV , 1984				MAY , 1985					
30... 1520	4.6	6.5	730	02... 1245	6.9	20.5	710		
DEC 12... 1515	9.3	8.0	660	16... 1355	2.4	22.0	1050		
JAN , 1985				JUN 07... 1150	.60	24.0	1050		
14... 1445	6.5	4.5	950	JUL 05... --	.60	--	1500		
FEB 13... 1425	7.2	10.0	830	AUG 06... 1330	1.2	25.5	800		
MAR 19... 1720	25	13.5	450	SEP 11... 1100	.93	16.0	840		
APR 10... 1350	68	13.0	265						
09406000 VIRGIN RIVER AT VIRGIN, UT (LAT 37°10'22", LONG 113°10'48")									
OCT , 1984				APR , 1985					
03... 1150	88	15.0	820	10... 1225	830	11.0	475		
NOV 09... 1250	131	10.5	810	22... 1150	586	11.5	560		
DEC 12... 1050	167	7.0	720	MAY 16... 0930	317	12.5	620		
JAN , 1985				JUN 07... 0850	136	18.5	740		
15... 1325	145	4.5	870	AUG 07... 1215	72	22.0	770		
FEB 13... 1010	160	5.0	810	SEP 11... 1245	88	24.0	750		
MAR 19... 1155	467	9.5	660						

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
VIRGIN RIVER BASIN--Continued									
09406150 LAVERKIN CREEK NEAR LAVERKIN, UT (LAT 37°12'17", LONG 113°17'03")									
DEC , 1984					APR , 1985				
10...	1350	8.5	7.5	1080	16...	1200	40	16.0	680
13...	--	9.7	--	1090	MAY				
JAN , 1985					07...	1215	22	17.5	860
17...	--	3.6	7.0	1310	28...	1125	10	17.0	990
FEB					JUN				
11...	1355	2.4	9.0	1350	17...	0940	5.2	19.5	1120
25...	1220	13	8.5	960	AUG				
MAR					05...	1205	1.1	28.0	1320
13...	1145	16	9.5	880	SEP				
19...	1400	34	14.0	710	09...	1445	1.4	26.0	1290
APR									
03...	1105	45	11.0	760					
09407000 ASH CREEK ABOVE TOQUERVILLE, UT (LAT 37°16'00", LONG 113°16'43")									
DEC , 1984					APR , 1985				
10...	--	.00	--	--	16...	1040	4.8	14.0	190
JAN , 1985					MAY				
17...	--	.00	--	--	07...	1050	2.4	16.0	190
FEB					28...	--	.00	--	--
11...	1545	.15	6.0	230	JUN				
19...	1530	1.8	12.5	270	17...	--	.00	--	--
25...	1335	1.1	11.0	265	AUG				
MAR					05...	--	.00	--	--
13...	1350	4.1	12.0	255	SEP				
19...	1200	6.2	12.0	250	12...	--	.00	--	--
APR									
03...	1310	7.1	19.0	230					
09408000 LEEDS CREEK NEAR LEEDS, UT (LAT 37°16'03", LONG 113°22'12")									
OCT , 1984					APR , 1985				
10...	1110	3.1	15.0	290	02...	1040	5.4	8.5	335
NOV					MAY				
21...	1215	3.3	12.0	315	08...	1240	8.4	11.0	260
DEC					29...	1110	8.8	10.0	225
18...	1130	3.4	3.0	320	JUN				
JAN , 1985					18...	1505	10	19.5	210
21...	1145	4.8	3.5	325	JUL				
FEB					23...	1545	5.7	21.0	225
19...	1145	5.9	6.5	305	SEP				
MAR					09...	1150	3.4	14.5	255
12...	1015	5.8	6.0	300					
09408150 VIRGIN RIVER NEAR HURRICANE, UT (LAT 37°09'45", LONG 113°23'42")									
OCT , 1984					MAR , 1985				
03...	0945	95	14.5	2120	19...	1520	550	12.0	950
NOV					APR				
09...	1450	141	14.0	1930	03...	0940	649	10.0	1020
DEC					MAY				
10...	1155	169	8.0	1700	07...	1350	270	18.0	1110
JAN , 1985					28...	1245	99	20.0	4060
17...	1135	159	5.0	1780	JUN				
FEB					17...	1250	94	26.0	5280
11...	1155	163	6.5	1780	AUG				
26...	1320	221	11.0	1870	06...	1030	88	22.5	--
MAR					SEP				
13...	0950	297	8.5	1470	13...	1145	76	19.5	--
09408195 FORT PIERCE WASH NEAR ST. GEORGE, UT (LAT 37°00'03", LONG 113°28'05")									
OCT , 1984					APR , 1985				
23...	--	.00	--	--	02...	--	.00	--	--
NOV					17...	--	.00	--	--
30...	--	.20	--	--	MAY				
DEC					08...	--	.00	--	--
11...	1625	.10	10.0	--	29...	--	.00	--	--
JAN , 1985					JUN				
18...	1545	.20	12.0	2880	17...	--	.00	--	--
FEB					AUG				
12...	--	.05	--	2860	05...	--	.00	--	--
MAR					SEP				
12...	--	.00	--	--	12...	--	.00	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
VIRGIN RIVER BASIN--Continued									
09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UT (LAT 37°23'00", LONG 113°28'57")									
OCT , 1984					APR , 1985				
02... 1105	2.5	9.5	110	23... 1330	14	6.5	65		
NOV 01... 1340	2.1	5.5	110	JUN 04... 1420	11	12.0	79		
DEC 10... 1130	1.9	2.0	110	JUL 12... 1400	6.0	16.0	95		
FEB , 1985				AUG 09... 1200	3.9	17.0	92		
13... 1145	2.7	.0	120	SEP 16... 1335	2.3	14.5	94		
MAR 15... 1220	3.2	5.0	95						
APR 11... 1340	28	5.0	74						
09408500 SANTA CLARA-PINTO DIVERSION NEAR PINTO, UT (LAT 37°28'04", LONG 113°28'21")									
OCT , 1984					MAY , 1985				
02... --	.00	--	--	23... 1140	3.3	15.0	--		
NOV 01... --	.00	--	--	JUN 18... --	.00	--	--		
DEC 10... --	.15	--	--	JUL 12... --	.00	--	--		
MAR , 1985				AUG 09... --	.00	--	--		
22... 1135	1.4	7.5	245	SEP 16... --	.00	--	--		
APR 11... 1340	43	5.0	97						
23... 1450	9.2	12.0	150						
MAY 03... 1555	19	15.0	140						
09409880 SANTA CLARA RIVER AT GUNLOCK, UT (LAT 37°16'55", LONG 113°46'00")									
OCT , 1984				APR , 1985					
05... 1450	9.0	20.0	455	10... 1140	38	17.5	430		
NOV 07... 1605	16	12.0	455	MAY 17... 1200	19	20.0	400		
DEC 10... 1345	11	10.0	540	JUN 18... 1240	3.0	29.0	570		
JAN , 1985				JUL 12... 1240	6.5	28.0	405		
09... 1435	12	9.0	530	AUG 09... 1340	2.9	26.0	420		
FEB 13... 1345	9.1	10.0	540	SEP 10... 1520	5.8	22.0	440		
MAR 15... 1340	22	13.5	430						
09410100 SANTA CLARA RIVER BELOW WINDSOR DAM, NEAR SANTA CLARA, UT (LAT 37°11'24", LONG 113°46'03")									
OCT , 1984				MAY , 1985					
05... 1300	.94	21.0	600	20... 1500	9.7	19.5	530		
NOV 07... 1350	.10	14.0	960	JUN 18... 1130	20	15.0	520		
JAN , 1985				JUL 12... 1050	18	18.0	510		
09... 1305	3.2	7.0	650	AUG 09... 1610	17	22.0	435		
FEB 27... 1425	20	10.0	510	SEP 10... 1230	5.0	19.0	510		
APR 10... 0925	21	9.5	560						
MAY 03... 1200	14	15.0	520						
09413000 SANTA CLARA RIVER AT ST. GEORGE, UT (LAT 37°04'26", LONG 113°34'56")									
NOV , 1984				APR , 1985					
30... 1325	8.5	9.5	1750	17... 1255	10	20.5	1510		
DEC 31... 1435	5.1	11.0	1930	MAY 07... 1600	6.0	25.0	2070		
JAN , 1985				28... 1340	6.4	21.0	1870		
18... 1440	3.8	10.5	1940	JUN 17... 1610	10	29.0	1450		
FEB 12... 1250	5.2	10.0	1820	AUG 05... 1410	7.4	26.0	1620		
MAR 12... 1500	5.3	14.0	1660	SEP 12... 1540	8.5	21.0	1700		
APR 02... 1445	16	20.0	1340						

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
VIRGIN RIVER BASIN--Continued									
09413200 VIRGIN RIVER NEAR BLOOMINGTON, UT (LAT 37°04'14", LONG 113°34'55")									
OCT , 1984					APR , 1985				
10...	1245	72	15.0	2960	02...	1300	487	15.5	1430
NOV					17...	0815	1080	11.0	840
07...	1130	145	10.5	2250	MAY				
DEC					08...	1000	353	15.0	1510
11...	1300	218	9.5	1900	29...	0840	72	15.0	4230
JAN , 1985					JUN				
18...	1245	232	3.5	1970	18...	0905	40	20.0	4610
FEB					AUG				
12...	1345	199	10.0	1990	06...	0840	41	17.0	4210
MAR					SEP				
12...	1310	329	12.0	1530	13...	1005	50	12.5	3840
BEAR RIVER BASIN									
10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WY (LAT 40°52'25", LONG 110°47'00")									
OCT , 1984					MAY , 1985				
05...	1350	43	7.0	95	18...	1240	14	.0	--
NOV					MAY				
08...	1025	31	.0	95	09...	1415	202	5.5	--
DEC					JUN				
04...	0720	12	.0	90	12...	1155	253	9.0	--
JAN , 1985					JUL				
15...	1315	16	.0	--	08...	1310	71	14.0	--
FEB									
12...	1010	15	.0	--					
10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UT (LAT 40°50'30", LONG 110°55'35")									
OCT , 1984					JUL , 1985				
05...	1525	67	5.0	150	08...	1520	6.0	11.5	230
JAN , 1985					SEP				
15...	1425	.45	1.0	--	09...	1215	22	7.0	--
JUN									
12...	1400	48	10.0	210					
10011400 WEST FORK BEAR RIVER BELOW DEER CREEK, NEAR EVANSTON, WY (LAT 40°56'40", LONG 110°51'40")									
OCT , 1984					JUL , 1985				
05...	1055	82	7.0	170	09...	1430	35	18.0	455
JAN , 1985					AUG				
15...	1450	16	.0	--	06...	1430	18	19.0	285
JUN									
12...	0920	153	7.0	285					
10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE (LAT 40°57'55", LONG 110°51'10")									
OCT , 1984					JUN , 1985				
05...	1220	175	10.0	250	12...	1135	887	9.0	185
NOV					JUL				
08...	0920	96	1.0	125	09...	1605	179	19.0	80
DEC					AUG				
04...	1105	74	.0	180	06...	1600	108	19.0	150
JAN , 1985					SEP				
15...	1545	67	.0	165	10...	1140	87	10.0	250
FEB									
12...	1245	70	.0	210					
10015700 SULPHUR CREEK ABOVE RESERVOIR, NEAR EVANSTON, WY (LAT 41°08'38", LONG 110°48'19")									
OCT , 1984					JUN , 1985				
05...	0920	10	12.0	780	11...	1845	22	20.5	720
NOV					JUL				
07...	1450	21	4.0	790	09...	1230	3.2	20.5	640
DEC					AUG				
03...	1430	12	.0	740	06...	1155	3.6	18.0	610
JAN , 1985					SEP				
15...	1225	8.9	.0	670	10...	1235	.94	14.0	770

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
BEAR RIVER BASIN--Continued									
10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY (LAT 41°09'21", LONG 110°50'05")									
OCT , 1984					MAY , 1985				
05...	0835	73	7.0	520	09...	--	.00	--	--
NOV					JUN				
07...	--	.20	--	540	12...	--	5.0	17.5	445
DEC					JUL				
03...	1155	44	1.0	490	09...	1055	31	15.0	500
JAN , 1985					AUG				
15...	1115	37	3.0	550	06...	1020	.19	17.5	500
MAR					SEP				
18...	1510	29	1.0	440	09...	1500	14	16.0	440
10019500 CHAPMAN CANAL AT STATE LINE, NEAR EVANSTON, WY (LAT 41°24'24", LONG 111°02'26")									
OCT , 1984					MAY , 1985				
04...	1620	15	12.0	700	08...	1320	44	10.5	--
NOV					JUN				
07...	0945	31	3.0	425	18...	1745	45	12.0	--
DEC					JUL				
04...	1545	32	.0	540	10...	0910	6.6	17.5	430
JAN , 1985					AUG				
15...	--	.00	--	--	05...	--	.00	--	--
FEB					SEP				
11...	--	.00	--	--	10...	--	.00	--	--
MAR									
25...	1245	10	1.0	--					
10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT (LAT 41°26'04" LONG 111°01'01")									
OCT , 1984					JUN , 1985				
04...	1620	307	11.0	410	18...	1340	332	22.0	610
NOV					JUL				
07...	1225	176	4.0	480	10...	1025	56	19.5	520
JAN , 1985					AUG				
14...	1530	158	.0	430	05...	1630	65	19.0	560
FEB					SEP				
26...	1620	135	.0	580	10...	1800	25	15.0	790
MAY									
08...	1715	1330	12.0	200					
10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT (LAT 41°30'20", LONG 111°00'50")									
OCT , 1984					MAY , 1985				
04...	1420	140	8.0	475	08...	1450	1110	12.5	--
NOV					JUN				
07...	1045	201	4.0	520	18...	1600	910	10.0	380
DEC					JUL				
04...	1315	167	2.0	540	11...	1420	154	16.0	320
JAN , 1985					AUG				
15...	1730	146	3.0	460	07...	1415	32	15.0	435
FEB					SEP				
13...	1155	144	3.0	--	10...	1510	33	15.0	410
MAR									
25...	1140	404	3.5	--					
10020900 WOODRUFF CREEK BELOW RESERVOIR, NEAR WOODRUFF, UT (LAT 41°28'06", LONG 111°18'50")									
OCT , 1984					MAY , 1985				
04...	1210	8.8	6.0	410	08...	1110	262	9.0	380
NOV					JUN				
07...	0840	14	3.0	310	11...	1425	87	8.0	320
JAN , 1985					JUL				
15...	1730	.10	.0	--	10...	1500	40	12.0	360
FEB					SEP				
13...	1630	7.5	3.0	385	11...	--	.00	--	--
MAR									
20...	1025	19	2.0	350					
10026500 BEAR RIVER NEAR RANDOLPH, UT (LAT 41°48'02", LONG 111°04'20")									
OCT , 1984					MAY , 1985				
04...	1010	226	10.0	480	23...	0950	556	13.0	570
NOV					JUL				
06...	1525	339	4.0	410	10...	1805	498	15.0	430
JAN , 1985					AUG				
14...	1215	186	.0	385	09...	1120	98	23.5	220
FEB					SEP				
26...	1310	223	.0	590	11...	1310	44	19.0	310
MAY									
07...	1620	1220	12.0	440					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
BEAR RIVER BASIN--Continued									
10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY (LAT 41°56'20", LONG 110°59'05")									
OCT , 1984					AUG , 1985				
04...	0825	276	9.0	430	08...	--	139	21.0	780
JUL , 1985									
10...	2020	610	7.0	--					
10032000 SMITHS FORK NEAR BORDER, WY (LAT 42°17'16", LONG 110°52'14")									
OCT , 1984					JUN , 1985				
03...	1600	131	9.0	275	19...	1020	310	8.0	350
NOV					JUL				
06...	1415	105	1.5	390	11...	0825	199	11.0	320
JAN , 1985					AUG				
16...	0950	59	.0	320	08...	0950	141	9.5	350
FEB					SEP				
14...	0815	53	.0	365	12...	1210	123	7.0	360
MAY									
07...	1825	541	11.0	240					
10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY (LAT 42°07'36", LONG 110°58'21")									
OCT , 1984					MAY , 1985				
03...	1330	510	10.0	520	07...	1230	1770	13.0	470
NOV					JUN				
06...	1150	556	4.0	480	19...	1235	632	13.0	540
JAN , 1985					SEP				
16...	1150	329	.0	--	12...	1040	187	12.0	450
FEB									
14...	1200	268	1.0	620					
10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE (LAT 42°24'10", LONG 111°01'30")									
OCT , 1984					MAY , 1985				
03...	1150	31	11.0	920	07...	0730	250	8.0	690
NOV					JUN				
06...	0845	27	1.0	770	05...	1325	90	14.0	720
DEC					JUL				
05...	1400	21	1.0	810	11...	1155	41	12.0	1080
JAN , 1985					AUG				
16...	0950	19	.0	820	08...	1305	24	12.5	980
FEB					SEP				
14...	1400	19	.5	840	12...	0905	32	9.0	640
MAR									
19...	1220	29	3.0	790					
10058600 BLOOMINGTON CREEK AT BLOOMINGTON, ID (LAT 42°11'05", LONG 111°25'30")									
OCT , 1984					MAY , 1985				
10...	1450	29	9.5	350	07...	1535	80	7.0	280
NOV					13...	1415	68	6.0	260
05...	1620	27	4.0	250	JUN				
DEC					06...	1225	60	9.0	295
06...	1145	24	1.0	260	28...	0815	41	6.5	340
JAN , 1985					JUL				
16...	1505	20	3.0	390	25...	1735	31	12.5	345
FEB					AUG				
14...	1455	20	1.0	410	22...	1820	25	11.5	345
MAR									
19...	1435	19	3.0	350					
10068500 BEAR RIVER AT PESCADERO, ID (LAT 42°24'06", LONG 111°21'22")									
OCT , 1984					MAY , 1985				
03...	0915	1800	12.0	510	13...	1220	350	10.0	560
NOV					JUN				
05...	1415	1800	5.0	475	06...	0950	259	16.0	590
JAN , 1985					JUL				
17...	0915	982	.0	570	26...	0930	1100	20.5	600
MAR					AUG				
25...	1210	1230	3.0	540	22...	1655	984	19.5	600
MAY									
06...	1425	309	10.0	580					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

357

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
BEAR RIVER BASIN--Continued									
10072800 EIGHTMILE CREEK NEAR SODA SPRINGS, ID (LAT 42°32'15", LONG 111°34'20")									
OCT , 1984					MAY , 1985				
09...	1650	8.3	10.0	305	06...	1150	98	8.5	260
NOV					13...	1015	85	5.0	245
05...	1225	8.2	5.0	325	JUN				
JAN , 1985					04...	1440	55	11.0	235
17...	1035	5.2	2.0	365	24...	1455	21	12.0	225
FEB					JUL				
15...	1000	4.6	1.0	390	23...	1500	11	12.0	275
MAR					AUG				
25...	0955	5.6	4.0	395	27...	1715	5.0	13.0	310
10076400 SODA CREEK AT FIVEMILE MEADOWS, NEAR SODA SPRINGS, ID (LAT 42°43'45", LONG 111°36'55")									
OCT , 1984					MAY , 1985				
09...	1410	40	12.5	850	06...	1050	49	9.0	950
NOV					JUN				
05...	1110	43	6.0	810	04...	1250	41	14.5	880
JAN , 1985					24...	1300	37	12.5	870
17...	0935	19	2.0	850	JUL				
FEB					23...	1400	34	15.0	840
15...	1155	20	2.0	910	AUG				
MAR					27...	1350	26	19.5	850
21...	1240	17	5.0	980					
10084500 COTTONWOOD CREEK NEAR CLEVELAND, ID (LAT 42°19'57", LONG 111°46'27")									
OCT , 1984					MAY , 1985				
11...	1045	17	8.5	325	06...	0930	114	6.5	275
NOV					13...	0825	94	5.0	265
05...	0940	28	3.0	235	JUN				
DEC					04...	1040	34	11.0	305
06...	1455	7.9	1.0	375	24...	1020	11	12.0	290
JAN , 1985					JUL				
17...	1120	18	.0	290	27...	1100	14	14.0	310
FEB					AUG				
21...	1035	15	.0	275	27...	1200	5.5	12.5	335
MAR									
21...	0950	45	2.0	360					
10090500 BEAR RIVER NEAR PRESTON, ID (LAT 42°10'05", LONG 111°50'59")									
OCT , 1984					MAR , 1985				
04...	1610	2830	19.5	670	07...	1110	1680	2.0	670
NOV					JUN				
06...	1320	2830	5.0	640	03...	1650	884	19.0	530
DEC					28...	1630	884	21.5	950
10...	1000	2430	1.0	700	JUL				
JAN , 1985					23...	0900	965	21.0	640
08...	1420	1340	1.5	740	AUG				
FEB					27...	0910	990	17.5	770
12...	0900	1480	2.0	550					
10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE (LAT 42°00'47", LONG 111°55'14")									
OCT , 1984					MAY , 1985				
04...	1300	1060	12.0	740	10...	1900	1560	13.0	--
NOV					JUN				
06...	1050	2380	5.0	680	04...	1650	983	17.5	680
DEC					25...	1630	920	19.5	850
10...	1640	2520	1.5	750	JUL				
JAN , 1985					24...	0910	1060	20.0	830
10...	0940	1770	1.0	820	AUG				
FEB					28...	0930	942	19.0	860
13...	0935	1540	.0	--					
MAR									
07...	1420	1740	3.0	620					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
------	------	---	-----------------------------	---	------	------	---	-----------------------------	---

BEAR RIVER BASIN--Continued
10093000 CUB RIVER NEAR PRESTON, ID (LAT 42°08'28", LONG 111°41'19")

OCT , 1984					MAY , 1985				
04...	1400	42	9.5	290	09...	1645	379	6.5	210
NOV					JUN				
07...	1210	33	5.0	280	03...	1410	210	24.0	255
DEC					28...	1400	89	11.0	295
10...	1420	28	5.5	290	JUL				
JAN , 1985					24...	1130	50	10.0	280
08...	1020	24	4.0	285	AUG				
FEB					28...	1400	34	14.0	290
12...	1305	26	2.0	480					
MAR									
06...	1540	18	4.5	280					

10099000 HIGH CREEK NEAR RICHMOND, UT (LAT 41°58'40", LONG 111°44'40")

OCT , 1984					MAY , 1985				
04...	1005	14	7.0	290	10...	1345	102	6.5	--
NOV					JUN				
07...	1000	18	5.0	250	04...	1020	85	6.5	290
DEC					28...	1100	40	7.5	310
13...	1030	12	.5	265	JUL				
JAN , 1985					24...	1410	22	11.0	290
07...	1540	9.5	2.5	270	AUG				
FEB					28...	1600	12	12.5	290
13...	1320	8.5	.0	480					
MAR									
13...	1300	13	3.5	235					

10104700 LITTLE BEAR RIVER BELOW DAVENPORT CREEK, NEAR AVON, UT
(LAT 41°30'45", LONG 111°48'40")

OCT , 1984					APR , 1985				
29...	1300	61	7.5	375	10...	1605	348	12.0	185
NOV					MAY				
30...	1335	46	6.0	380	02...	1025	176	8.0	265
DEC					09...	1340	219	10.0	330
28...	0850	50	2.0	370	30...	1210	137	8.0	300
JAN , 1985					JUL				
29...	0920	38	3.0	470	25...	1050	52	12.0	395
FEB					AUG				
27...	1255	45	3.0	490	29...	1045	38	12.5	425
APR									
02...	1205	111	8.0	260					

10104900 EAST FORK LITTLE BEAR RIVER ABOVE RESERVOIR, NEAR AVON, UT
(LAT 41°31'06", LONG 111°42'49")

OCT , 1984					MAY , 1985				
29...	0950	15	6.0	375	02...	1520	206	11.0	370
NOV					09...	1145	143	7.0	300
30...	1310	16	2.0	340	30...	1355	62	11.0	375
DEC					JUL				
29...	1110	16	3.0	330	25...	1245	17	15.0	370
FEB , 1985					AUG				
11...	1315	13	2.0	680	29...	1200	11	14.0	395
MAR									
14...	0950	18	4.0	490					

10106000 LITTLE BEAR RIVER NEAR PARADISE, UT (LAT 41°35'26", LONG 111°51'16")

OCT , 1984					APR , 1985				
01...	1820	164	13.5	350	02...	1020	242	6.0	380
29...	1530	180	9.5	435	MAY				
NOV					02...	0815	456	8.0	310
30...	1015	101	4.5	455	30...	0925	192	8.0	335
DEC					JUN				
31...	0840	94	4.0	470	26...	1705	75	16.5	470
JAN , 1985					JUL				
30...	0905	84	3.0	490	25...	0845	70	13.0	410
FEB					AUG				
27...	1040	76	3.0	475	29...	0915	56	13.5	560

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

359

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
------	------	---	-----------------------------	---	------	------	---	-----------------------------	---

BEAR RIVER BASIN--Continued
10108400 LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT
(LAT 41°44'35", LONG 111°45'40")

OCT , 1984					MAR , 1985				
01...	1040	36	8.5	350	01...	1110	1.0	7.0	385
30...	1430	4.6	6.0	360	MAY				
NOV					01...	1110	38	7.0	295
29...	0910	1.9	4.0	345	31...	1150	.24	7.5	300
DEC					JUN				
31...	1155	1.5	4.0	350	26...	1040	61	7.5	325
JAN , 1985					JUL				
30...	1150	1.6	2.0	390	26...	1055	67	10.0	360
FEB					AUG				
28...	1130	1.4	2.0	395	30...	1040	47	14.0	345

10109000 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT (LAT 41°44'40", LONG 111°47'00")

OCT , 1984					MAY , 1985				
01...	1315	232	9.0	350	01...	1225	447	8.0	300
30...	1600	221	6.5	370	10...	1015	851	7.0	280
NOV					31...	1320	752	13.0	310
29...	1150	199	4.5	360	JUN				
DEC					26...	1230	340	9.0	330
31...	1410	175	.0	340	JUL				
JAN , 1985					26...	1155	208	12.0	350
30...	1310	148	3.0	375	AUG				
FEB					26...	1450	148	11.0	--
28...	1250	137	3.0	380	30...	1345	162	11.5	370
APR									
01...	1320	161	10.0	375					

10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UT
(LAT 41°37'18", LONG 111°44'22")

OCT , 1984					APR , 1985				
01...	1445	214	9.5	310	01...	1005	179	6.0	390
30...	0940	179	6.5	405	MAY				
NOV					01...	0830	409	8.0	330
29...	1445	172	5.5	395	31...	0955	243	8.0	410
DEC					JUN				
31...	1540	154	4.0	425	26...	1455	180	12.0	385
JAN , 1985					JUL				
30...	1020	130	2.0	460	26...	0855	166	10.0	400
FEB					AUG				
28...	1005	123	3.0	475	30...	1000	162	10.0	410

10126180 SULPHUR CREEK NEAR CORINNE, UT (LAT 41°34'25", LONG 112°13'07")

OCT , 1984					MAY , 1985				
02...	1500	88	16.0	1400	06...	1325	25	19.0	--
NOV					JUN				
07...	1550	53	9.0	2550	06...	1310	45	21.0	1930
DEC					25...	1355	39	17.5	1980
12...	1110	28	1.5	3080	JUL				
JAN , 1985					25...	1350	66	25.0	--
04...	1130	21	.0	3670	AUG				
FEB					23...	1205	43	19.5	2290
13...	1350	3.7	.0	5030	SEP				
MAR					19...	1625	72	16.5	1890
04...	1740	26	3.5	4100					

10127050 SALT CREEK BELOW SALT SPRING, NEAR TREMONTON, UT (LAT 41°42'41", LONG 112°13'36")

OCT , 1984					MAY , 1985				
12...	1400	96	15.0	1780	09...	1135	28	20.0	--
NOV					JUN				
05...	1600	75	11.0	1900	10...	1205	27	20.0	3610
DEC					27...	1705	32	20.0	--
11...	1440	29	18.5	3780	JUL				
JAN , 1985					24...	1325	102	23.5	--
09...	1110	30	18.5	3690	AUG				
FEB					20...	1510	48	20.0	2060
14...	1430	27	19.0	3740	SEP				
MAR					20...	1630	82	16.5	1700
05...	1550	29	19.0	1550					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
BEAR RIVER BASIN--Continued									
10127100 BLACK SLOUGH NEAR BRIGHAM CITY, UT (LAT 41°30'36", LONG 112°03'34")									
OCT , 1984					MAY , 1985				
02...	1100	74	14.0	1300	06...	1115	30	14.0	--
NOV					JUN				
08...	1430	105	6.5	1140	06...	1515	18	23.5	2070
DEC					24...	1030	18	15.0	1140
12...	1420	98	3.0	900	JUL				
JAN , 1985					24...	1535	27	26.0	1110
04...	1420	88	3.0	840	AUG				
FEB					23...	0825	22	16.5	830
13...	1620	74	5.5	760	SEP				
MAR					19...	1145	71	12.5	950
06...	0920	70	2.5	1180					
WEBER RIVER BASIN									
10128000 SMITH AND MOREHOUSE CREEK NEAR OAKLEY, UT (LAT 40°47'09", LONG 111°06'42")									
OCT , 1984					APR , 1985				
03...	1100	36	7.0	145	30...	1515	135	9.0	105
NOV					MAY				
27...	1135	18	.0	180	28...	1115	376	5.0	55
DEC					JUN				
31...	1110	17	.0	--	26...	1625	88	9.5	120
JAN , 1985					JUL				
25...	1030	18	.0	235	24...	1230	44	13.0	175
FEB					AUG				
25...	1110	14	2.0	225	21...	1205	22	11.5	265
10128500 WEBER RIVER NEAR OAKLEY, UT (LAT 40°44'14", LONG 111°14'50")									
OCT , 1984					APR , 1985				
03...	1330	131	7.5	160	30...	1100	491	5.5	215
NOV					MAY				
27...	0915	79	.0	--	28...	1315	1160	8.0	125
DEC					JUN				
31...	1250	89	.0	--	27...	1030	389	6.0	200
JAN , 1985					SEP				
25...	1335	68	.0	--	27...	1025	87	5.0	295
FEB									
25...	1335	69	.5	--					
10130500 WEBER RIVER NEAR COALVILLE, UT (LAT 40°53'43", LONG 111°24'04")									
OCT , 1984					MAY , 1985				
03...	1050	543	12.0	330	02...	1310	528	10.5	335
30...	1310	234	9.0	365	JUN				
JAN , 1985					12...	1310	1020	16.5	245
17...	1120	293	2.0	375	JUL				
FEB					25...	1220	225	13.0	320
14...	1015	305	1.0	330	AUG				
MAR					22...	1225	200	13.5	295
12...	1025	226	2.5	410					
10131000 CHALK CREEK AT COALVILLE, UT (LAT 40°55'14", LONG 111°24'03")									
OCT , 1984					MAY , 1985				
03...	1320	57	10.5	660	02...	1630	426	14.5	475
30...	0925	66	2.0	700	JUN				
JAN , 1985					12...	1030	176	13.0	510
17...	1200	44	1.0	750	JUL				
FEB					25...	0940	79	14.0	690
14...	1300	44	1.0	660	AUG				
MAR					22...	0920	28	12.5	800
12...	1215	55	2.0	760					
APR									
16...	1815	405	12.5	510					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

361

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
WEBER RIVER BASIN--Continued									
10134500 EAST CANYON CREEK NEAR MORGAN, UT (LAT 40°55'21", LONG 111°36'23")									
OCT , 1984					MAY , 1985				
03...	1410	117	13.0	560	22...	1435	148	9.0	470
30...	1615	8.0	9.0	530	JUN				
JAN , 1985					28...	1230	175	8.0	510
17...	--	220	--	500	JUL				
FEB					26...	1245	179	13.0	480
12...	1410	274	3.0	530	AUG				
MAR					23...	1300	89	10.5	510
13...	1015	48	2.5	560					
10136500 WEBER RIVER AT GATEWAY, UT (LAT 41°08'13", LONG 111°49'54")									
OCT , 1984					APR , 1985				
11...	1300	1230	12.5	510	16...	1530	2720	9.5	--
31...	1130	327	7.0	485	MAY				
NOV					22...	1125	2170	11.5	395
28...	1130	247	3.0	640	JUN				
JAN , 1985					27...	1005	709	10.5	485
15...	1415	1170	2.0	495	JUL				
FEB					23...	1100	598	14.5	465
12...	1200	854	2.5	--	SEP				
MAR					05...	1415	589	16.0	480
13...	1150	364	2.5	--	18...	1135	397	12.5	500
10137500 SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UT (LAT 41°16'07", LONG 111°40'24")									
OCT , 1984					MAY , 1985				
28...	1120	41	3.0	370	29...	0955	251	10.5	265
JAN , 1985					JUN				
17...	1150	45	.0	360	24...	0950	91	11.0	290
FEB					JUL				
11...	1055	134	2.5	395	23...	1400	92	17.5	315
MAR					AUG				
14...	1100	89	2.5	335	21...	1130	85	14.5	355
MAY									
03...	1245	581	9.0	290					
10139300 WHEELER CREEK NEAR HUNTSVILLE, UT (LAT 41°15'14", LONG 111°50'32")									
OCT , 1984					MAY , 1985				
28...	1410	4.6	3.5	460	29...	1215	26	8.0	260
JAN , 1985					JUN				
17...	1330	2.7	2.0	440	24...	1225	3.1	12.5	310
FEB					JUL				
11...	1330	2.2	3.5	475	23...	1700	.46	19.0	305
MAR					AUG				
14...	1310	6.2	4.5	445	21...	1350	.19	18.0	350
MAY					SEP				
03...	1015	45	8.0	--	18...	1450	2.1	11.0	405
JORDAN RIVER BASIN									
10146400 CURRANT CREEK NEAR MONA, UT (LAT 39°48'09", LONG 111°51'44")									
OCT , 1984					MAY , 1985				
24...	1010	73	3.0	1750	21...	1020	37	13.0	1750
NOV					JUL				
20...	0925	56	2.0	1800	12...	1410	17	23.0	1240
JAN , 1985					AUG				
14...	1130	40	2.0	2100	16...	1100	16	18.0	1100
FEB					SEP				
11...	1230	66	1.5	1900	13...	1310	20	12.5	1560
10148200 TIE FORK NEAR SOLDIER SUMMIT, UT (LAT 39°57'00", LONG 111°12'58")									
OCT , 1984					JUN , 1985				
29...	1025	5.6	6.0	770	04...	1430	27	15.0	620
JAN , 1985					JUL				
18...	1535	4.3	4.0	--	08...	1630	12	19.5	650
FEB					AUG				
11...	1830	3.8	1.0	430	12...	1650	8.0	16.5	690
MAY					SEP				
07...	1840	32	12.0	650	09...	1640	5.2	14.0	670

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
JORDAN RIVER BASIN--Continued									
10148510 SPANISH FORK BELOW HALLS FALLS NEAR SPANISH FORK, UT (LAT 40°00'34", LONG 111°29'34")									
NOV , 1984					JUN , 1985				
25... 1020	11	5.0	950		04... 1220	266	11.0	--	
JAN , 1985					JUL				
16... 1035	2.9	1.5	2120		08... 1410	120	22.0	820	
FEB					AUG				
11... 1610	2.5	7.0	2710		12... 1410	90	17.5	820	
MAR					SEP				
20... 1005	298	4.0	770		09... 1450	80	17.5	790	
MAY									
07... 1630	639	14.5	580						
10150500 SPANISH FORK AT CASTILLA, UT (LAT 40°02'59", LONG 111°32'50")									
OCT , 1984					JUN , 1985				
25... 1230	111	7.0	1030		04... 1040	433	11.0	750	
JAN , 1985					JUL				
16... 1145	64	4.0	1300		08... 1305	540	20.0	500	
FEB					AUG				
11... 1035	51	6.0	780		12... 1040	535	13.0	440	
MAR					SEP				
20... 1330	353	7.0	820		09... 1150	267	13.5	580	
MAY									
07... 1400	992	14.0	400						
10152000 SPANISH FORK NEAR LAKESHORE, UT (LAT 40°09'30", LONG 111°43'50")									
OCT , 1984					JUN , 1985				
24... 1315	293	5.5	934		05... 1540	93	20.0	660	
FEB , 1985					AUG				
11... 1050	88	.5	880		19... 1120	67	17.5	610	
MAR									
20... 1555	281	9.0	710						
10153800 NORTH FORK PROVO RIVER NEAR KAMAS, UT (LAT 40°35'48", LONG 111°05'48")									
OCT , 1984					JUN , 1985				
09... 1700	13	8.0	<50		26... 1400	56	9.0	<50	
FEB , 1985					JUL				
13... 1100	7.9	.0	<50		24... 0930	45	11.0	<50	
MAY					AUG				
01... 1110	154	4.0	<50		21... 0915	12	10.0	<50	
JUN									
11... 1055	159	7.0	<50						
10154200 PROVO RIVER NEAR WOODLAND, UT (LAT 40°33'28", LONG 111°10'05")									
OCT , 1984					MAR , 1985				
06... 1530	90	9.5	220		28... 1335	89	2.5	210	
NOV					MAY				
21... 1340	96	1.0	195		01... --	605	--	110	
DEC					JUN				
12... 1245	89	1.0	--		11... 1415	590	12.0	305	
JAN , 1985					26... --	334	7.0	135	
24... 0920	64	1.0	<50		AUG				
FEB					20... 1650	91	15.5	170	
13... 1430	71	3.5	190						
10155000 PROVO RIVER NEAR HAILSTONE, UT (LAT 40°36'03", LONG 111°21'35")									
OCT , 1984					MAY , 1985				
09... 1400	108	11.0	215		01... 1545	725	10.5	115	
JAN , 1985					JUN				
24... 1130	34	.5	245		11... 1720	599	15.5	110	
MAR					AUG				
28... 1115	121	1.0	220		20... 1410	62	17.5	230	

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

363

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
JORDAN RIVER BASIN--Continued									
10159500 PROVO RIVER BELOW DEER CREEK DAM, UT (LAT 40°24'12", LONG 111°31'44")									
OCT , 1984					APR , 1985				
02...	1545	423	14.0	--	16...	1220	1100	7.0	500
NOV					MAY				
05...	1150	358	9.5	405	07...	1440	477	8.0	415
DEC					JUN				
11...	1150	325	3.0	--	25...	1425	345	10.0	365
JAN , 1985					JUL				
17...	1540	361	3.5	465	23...	1245	376	12.5	280
APR					AUG				
02...	1110	89	5.0	520	20...	1055	480	13.5	330
10163000 PROVO RIVER AT PROVO, UT (LAT 40°14'16", LONG 111°41'55")									
OCT , 1984					APR , 1985				
09...	1150	459	11.0	370	01...	--	188	5.0	460
NOV					MAY				
13...	1455	459	5.0	--	07...	1115	190	9.0	410
DEC					JUN				
12...	0830	420	2.5	--	24...	1330	60	15.0	395
JAN , 1985					JUL				
09...	1015	500	2.0	375	22...	1240	85	16.5	380
FEB					AUG				
06...	1145	438	2.0	500	19...	1335	21	20.5	360
10164500 AMERICAN FORK ABOVE UPPER POWERPLANT, NEAR AMERICAN FORK, UT (LAT 40°26'52", LONG 111°40'53")									
OCT , 1984					APR , 1985				
02...	1045	39	8.0	415	02...	--	27	9.0	480
11...	1130	36	10.0	--	22...	--	109	5.0	--
NOV					JUN				
07...	1140	42	5.0	--	03...	--	175	9.0	--
13...	1145	34	4.0	460	24...	1010	148	10.0	321
DEC					JUL				
21...	0945	26	2.0	--	16...	--	71	12.0	--
JAN , 1985					22...	1530	78	13.5	360
17...	1010	23	2.0	500	AUG				
FEB					19...	1535	53	14.0	415
05...	1400	20	1.0	--	26...	0950	40	12.0	--
22...	1050	20	4.0	--					
MAR									
29...	--	32	5.0	--					
10167000 JORDAN RIVER AT NARROWS, NEAR LEHI, UT (LAT 40°26'38", LONG 111°55'17")									
OCT , 1984					MAY , 1985				
01...	1500	937	14.5	1100	01...	1755	1040	19.0	1080
31...	1130	1310	7.5	1100	31...	1245	1090	19.0	1010
DEC					JUL				
03...	1420	1320	3.0	1440	01...	1200	716	23.0	1100
JAN , 1985					31...	1100	607	20.5	1100
02...	1500	1330	3.0	1160	AUG				
FEB					29...	1015	333	22.0	1120
04...	1600	1330	2.5	1100	SEP				
MAR					30...	0920	423	12.0	1220
01...	0945	1320	5.0	1170					
APR									
01...	0950	1420	7.0	1080					
10167230 JORDAN RIVER AT 9000 SOUTH, NEAR MIDVALE, UT (LAT 40°35'15", LONG 111°54'43")									
OCT , 1984					APR , 1985				
10...	1220	1160	19.0	1330	18...	1430	1550	16.5	--
NOV					JUN				
20...	1330	1580	5.5	1250	28...	1245	884	20.0	1290
JAN , 1985					JUL				
10...	1500	1430	4.5	--	30...	1510	685	22.0	1370
MAR					AUG				
28...	1335	1240	6.0	1150	28...	1050	403	20.0	1050
APR									
01...	1345	1500	8.0	--					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
------	------	---	-----------------------------	---	------	------	---	-----------------------------	---

JORDAN RIVER BASIN--Continued

10167300 JORDAN RIVER AT 5800 SOUTH, NEAR SALT LAKE CITY, UT (LAT 40°38'43", LONG 111°55'18")

OCT , 1984					MAY , 1985				
10...	1520	1340	20.0	1350	02...	1100	1030	16.0	1300
NOV					JUN				
20...	1800	1660	6.0	1260	28...	1515	974	21.0	1330
JAN , 1985					AUG				
17...	1500	1590	2.5	1210	06...	1230	602	21.0	1390
FEB					28...	1430	452	21.5	1550
25...	1100	1680	4.0	1280					
MAR									
28...	0950	1410	5.0	1240					

10170500 SURPLUS CANAL AT SALT LAKE CITY, UT (LAT 40°43'37", LONG 111°55'33")

OCT , 1984					APR , 1985				
02...	1245	1490	15.0	1280	30...	1100	1340	12.0	1180
NOV					JUN				
26...	1615	1540	3.5	1310	27...	1420	1390	19.0	1180
JAN , 1985					JUL				
22...	1510	1380	5.0	1320	29...	1520	846	23.0	1380
FEB					SEP				
13...	1540	1250	4.5	1380	03...	1705	491	21.0	1500
MAR									
25...	1250	1610	8.0	1220					

10172550 JORDAN RIVER AT 500 NORTH, AT SALT LAKE CITY, UT (LAT 40°46'49", LONG 111°56'16")

OCT , 1984					APR , 1985				
02...	1520	206	15.0	1360	23...	1450	298	9.0	750
NOV					JUN				
21...	1100	234	5.5	1070	27...	1105	301	16.0	1110
JAN , 1985					JUL				
16...	1530	311	.0	1190	29...	1210	271	21.0	1280
MAR					SEP				
22...	1400	218	7.0	1740	03...	1330	238	20.0	1370

RUSH VALLEY

10172700 VERNON CREEK NEAR VERNON, UT (LAT 39°58'46", LONG 112°22'46")

OCT , 1984					APR , 1985				
04...	1200	9.3	10.5	540	09...	1910	51	5.5	255
NOV					JUN				
01...	0840	9.1	5.0	520	20...	1345	8.5	17.0	470
DEC					AUG				
31...	1120	7.9	5.0	480	01...	1125	7.6	14.0	380
FEB , 1985					27...	1115	7.6	17.0	380
22...	1200	7.8	6.0	480					
MAR									
21...	1040	9.7	8.0	530					

10172765 CLOVER CREEK ABOVE BIG HOLLOW NEAR CLOVER, UT (LAT 40°19'58", LONG 112°31'24")

NOV , 1984					MAY , 1985				
20...	1500	5.1	8.0	400	09...	1610	16	8.5	--
JAN , 1985					JUN				
28...	1130	3.3	4.5	--	12...	0950	11	8.0	--
FEB									
14...	1210	3.1	7.5	--					

TOOELE VALLEY

10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT (LAT 40°29'47", LONG 112°34'25")

OCT , 1984					MAY , 1985				
02...	1115	8.5	8.0	310	09...	1415	19	9.0	230
NOV					JUN				
15...	1115	6.7	5.0	310	26...	1520	10	9.0	250
DEC					AUG				
11...	1050	6.3	6.0	--	02...	1320	5.5	11.0	360
JAN , 1985					SEP				
28...	1505	5.0	4.0	340	04...	1415	4.5	10.0	470
FEB									
26...	1210	4.0	3.0	340					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
TOOELE VALLEY--Continued									
10172805	NORTH WILLOW CREEK NEAR GRANTSVILLE, UT (LAT 40°31'58", LONG 112°34'19")								
OCT , 1984					MAY , 1985				
02...	1400	4.2	10.5	315	09...	1130	16	8.0	185
26...	1110	5.2	6.5	295	JUN				
DEC					26...	1310	5.2	12.0	270
11...	1300	4.7	6.0	330	AUG				
JAN , 1985					05...	1045	2.9	13.0	350
28...	1315	3.0	4.0	330	SEP				
FEB					04...	1010	2.4	11.5	375
26...	1005	2.3	3.0	340					

GREAT SALT LAKE DESERT									
10172870	TROUT CREEK NEAR CALLAO, UT (LAT 39°44'39", LONG 113°53'21")								
OCT , 1984					MAY , 1985				
09...	1635	2.2	10.5	105	16...	1255	12	9.0	75
NOV					JUN				
19...	1500	2.1	3.0	135	12...	1730	9.1	12.0	80
JAN , 1985					JUL				
03...	1740	2.3	.0	125	02...	1240	4.1	13.0	85
FEB					AUG				
14...	1900	2.0	1.0	110	01...	1710	2.5	15.0	90
MAR					SEP				
28...	1710	2.5	2.0	120	05...	1700	1.7	13.0	90

TRIBUTARIES BETWEEN GREAT SALT LAKE DESERT AND BEAR RIVER									
10172952	DUNN CREEK NEAR PARK VALLEY, UT (LAT 41°51'31", LONG 113°19'35")								
OCT , 1984					MAY , 1985				
05...	1810	3.0	10.5	230	07...	1700	19	11.5	--
NOV					JUN				
13...	1440	2.3	5.0	240	11...	1715	9.0	16.0	130
DEC					27...	1510	5.1	17.5	240
14...	1350	1.9	1.5	240	JUL				
JAN , 1985					22...	1030	3.6	15.5	210
24...	1250	1.7	2.5	235	AUG				
FEB					26...	1400	1.9	21.0	240
14...	1110	1.4	.5	290					
MAR									
12...	1820	1.6	2.0	240					

SEVIER LAKE BASIN									
10173450	MAMMOTH CREEK ABOVE WEST HATCH DITCH, NEAR HATCH, UT (LAT 37°37'19", LONG 112°31'07")								
OCT , 1984					MAY , 1985				
05...	1355	27	7.5	190	01...	1135	117	6.5	205
NOV					JUN				
14...	1335	21	3.5	185	05...	1240	185	9.0	190
JAN , 1985					AUG				
29...	1230	7.1	.0	220	01...	1605	47	16.0	200
FEB					SEP				
27...	1055	6.6	1.0	220	05...	1320	30	10.0	215
APR									
01...	1210	16	7.5	260					

10174500 SEVIER RIVER AT HATCH, UT (LAT 37°39'04", LONG 112°25'46")									
OCT , 1984					APR , 1985				
05...	1245	72	10.0	330	03...	1230	81	9.0	440
NOV					MAY				
14...	1345	72	6.0	295	01...	1010	256	7.0	305
JAN , 1985					JUN				
02...	1210	64	.5	365	05...	1105	305	9.0	280
FEB					AUG				
08...	1135	62	.5	350	01...	1350	120	16.0	310
MAR					SEP				
01...	1325	65	6.5	355	05...	1150	86	12.0	330

10180000 SEVIER RIVER NEAR CIRCLEVILLE, UT (LAT 38°06'15", LONG 112°20'08")									
OCT , 1984					APR , 1985				
05...	1100	122	8.5	460	30...	1035	389	10.0	340
NOV					JUN				
14...	1105	156	4.5	360	03...	1200	251	17.0	340
JAN , 1985					JUL				
09...	1025	145	1.0	430	05...	1515	110	22.5	450
FEB					AUG				
14...	1055	135	1.0	425	12...	1350	90	18.0	485
MAR					SEP				
14...	1050	153	5.0	440	06...	1105	95	11.0	500

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
SEVIER LAKE BASIN--Continued									
10183500 SEVIER RIVER NEAR KINGSTON, UT (LAT 38°12'22", LONG 112°12'25")									
OCT , 1984					APR , 1985				
02...	1110	41	9.5	630	30...	1120	349	10.0	365
31...	1135	177	8.0	495	JUN				
JAN , 1985					03...	1305	150	17.0	445
09...	1115	174	3.0	455	JUL				
FEB					01...	1100	37	19.0	630
14...	1140	183	4.0	445	31...	1040	82	15.5	560
MAR					SEP				
14...	1220	215	7.0	475	06...	1325	35	17.0	660
10183900 EAST FORK SEVIER RIVER NEAR RUBYS INN, UT (LAT 37°34'33", LONG 112°15'54")									
OCT , 1984					APR , 1985				
11...	1010	9.5	7.0	460	24...	1100	49	7.0	500
NOV					JUN				
01...	1250	11	2.0	--	12...	1510	16	18.0	480
JAN , 1985					JUL				
25...	1145	15	.0	510	24...	1535	12	19.5	440
MAR					AUG				
01...	1105	11	.5	500	16...	1050	7.4	12.0	420
10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT (LAT 38°11'49", LONG 112°09'01")									
OCT , 1984					APR , 1985				
02...	1135	61	13.0	485	30...	1300	325	11.5	400
31...	1305	129	7.0	430	JUN				
JAN , 1985					03...	1410	112	16.5	480
09...	1220	192	3.0	440	JUL				
FEB					01...	1215	110	18.0	490
14...	1310	98	4.0	455	31...	1130	51	16.5	460
MAR					SEP				
14...	1315	159	6.0	455	05...	1410	42	20.0	--
10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UT (LAT 38°19'43", LONG 112°11'30")									
OCT , 1984					MAR , 1985				
05...	0935	106	14.0	445	14...	1445	10	12.5	475
31...	1510	52	13.0	435	APR				
DEC					16...	1200	566	12.0	480
10...	1225	448	4.0	--	JUN				
JAN , 1985					03...	1520	260	15.0	440
16...	1010	441	5.0	480	JUL				
FEB					01...	1445	432	16.0	470
19...	1145	330	3.0	480	31...	1240	202	21.0	440
10194000 SEVIER RIVER ABOVE CLEAR CREEK, NEAR SEVIER, UT (LAT 38°34'20", LONG 112°15'27")									
OCT , 1984					MAY , 1985				
05...	1120	155	15.0	470	06...	1235	1300	13.0	440
NOV					JUN				
07...	1155	92	8.0	485	05...	1150	430	15.0	390
DEC					JUL				
11...	0950	484	3.0	475	17...	1220	470	19.0	485
FEB , 1985					SEP				
19...	1325	354	5.0	480	05...	1220	533	19.0	465
APR									
02...	1115	393	7.5	530					
10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UT (LAT 38°34'45", LONG 112°17'22")									
OCT , 1984					MAY , 1985				
05...	1205	24	10.5	280	02...	1020	394	8.5	220
NOV					JUN				
07...	1120	22	6.5	290	05...	1115	126	6.0	165
JAN , 1985					JUL				
10...	1135	20	3.0	315	05...	1230	54	17.0	205
FEB					AUG				
19...	1405	15	7.0	310	09...	1145	23	12.0	250
APR					SEP				
02...	1020	39	3.0	--	10...	1205	20	11.0	275
16...	0950	165	7.0	--					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
SEVIER LAKE BASIN--Continued									
10205000 SEVIER RIVER NEAR SIGURD, UT (LAT 38°52'13", LONG 111°57'14")									
OCT , 1984					MAY , 1985				
11...	1310	201	14.0	780	03...	0840	667	13.0	530
NOV					JUN				
05...	1725	177	9.0	1000	04...	0815	97	16.0	980
JAN , 1985					JUL				
10...	1345	464	5.0	720	02...	1215	34	22.0	1020
FEB					AUG				
19...	1645	485	8.0	700	02...	0810	85	21.0	950
APR					SEP				
03...	1200	601	11.5	1050	10...	1430	334	--	740
10205030 SALINA CREEK NEAR EMERY, UT (LAT 38°54'43", LONG 111°31'47")									
OCT , 1984					MAY , 1985				
05...	1120	23	6.0	570	14...	1025	62	3.5	580
NOV					JUN				
06...	1110	18	4.0	600	05...	0820	48	6.0	540
JAN , 1985					JUL				
22...	--	13	--	--	03...	1055	21	12.0	530
FEB					AUG				
26...	1035	8.4	.5	--	08...	1620	16	18.0	425
APR					SEP				
27...	1305	63	6.5	--	11...	1310	17	9.0	--
10206000 SALINA CREEK AT SALINA, UT (LAT 38°57'24", LONG 111°51'58")									
OCT , 1984					MAY , 1985				
05...	1545	35	14.0	1180	20...	1335	265	9.0	750
NOV					JUN				
06...	1320	50	9.0	1250	04...	1015	100	11.0	880
JAN , 1985					JUL				
10...	1450	12	3.5	1190	03...	0825	6.4	14.0	1630
FEB					AUG				
26...	0830	34	.5	--	08...	1440	4.2	25.0	1930
APR					SEP				
02...	1335	62	10.0	1290	11...	1230	1.4	12.0	3580
10208500 OAK CREEK NEAR FAIRVIEW, UT (LAT 39°40'26", LONG 111°24'30")									
OCT , 1984					MAY , 1985				
04...	1040	4.4	7.0	560	20...	2000	102	8.0	480
NOV					JUL				
14...	1535	4.0	2.5	580	10...	1720	6.7	16.5	480
JAN , 1985					AUG				
15...	1700	3.6	1.0	590	14...	--	4.2	--	--
FEB					SEP				
28...	1505	4.2	2.0	--	11...	1620	6.1	9.0	--
MAR									
19...	1645	5.0	5.5	560					
10215700 OAK CREEK NEAR SPRING CITY, UT (LAT 39°26'52", LONG 111°25'29")									
OCT , 1984					MAY , 1985				
05...	1330	9.5	6.5	435	20...	1355	41	8.0	385
NOV					JUL				
07...	1445	7.4	3.0	440	11...	1830	13	13.0	385
JAN , 1985					AUG				
17...	1535	5.0	1.0	--	15...	1650	7.3	12.0	400
FEB					SEP				
15...	1545	4.8	3.0	--	12...	1440	6.3	7.5	285
MAR									
19...	1100	4.7	4.0	440					
10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT (LAT 39°15'33", LONG 111°34'45")									
OCT , 1984					MAY , 1985				
05...	1940	17	8.0	580	20...	1635	122	11.0	480
NOV					JUN				
07...	1635	13	2.0	620	08...	1755	241	13.0	340
DEC					AUG				
18...	1215	8.4	.0	--	02...	1235	18	13.0	540
FEB , 1985					SEP				
11...	1540	5.8	.0	650	19...	1420	10	10.0	590
MAR									
19...	1325	8.6	5.0	650					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
SEVIER LAKE BASIN--Continued									
10217000 SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UT (LAT 39°09'19", LONG 111°52'37")									
NOV , 1984					JUN , 1985				
06...	1520	570	9.0	1650	04...	1210	612	13.0	1730
JAN , 1985					JUL				
11...	1215	849	4.0	1120	02...	1415	164	21.5	2220
APR					AUG				
03...	1005	1170	11.0	1350	02...	1010	197	17.5	1940
MAY					SEP				
03...	1100	1930	19.0	1030	11...	1055	423	13.5	1230
10219000 SEVIER RIVER NEAR JUAB, UT (LAT 39°22'29", LONG 112°02'20")									
OCT , 1984					MAY , 1985				
11...	1805	409	15.0	1500	22...	1700	1290	18.0	1060
NOV					JUN				
01...	1710	662	9.0	1420	19...	1740	773	22.0	1060
JAN , 1985					AUG				
14...	1705	774	2.0	--	16...	1000	779	18.5	1150
FEB					SEP				
12...	1505	705	3.0	1480	26...	1155	16	16.0	990
10219200 CHICKEN CREEK NEAR LEVAN, UT (LAT 39°33'08", LONG 111°49'45")									
OCT , 1984					MAR , 1985				
24...	1330	4.2	8.0	1200	29...	1140	7.8	7.0	990
NOV					MAY				
20...	1440	4.8	9.0	1250	21...	1545	25	12.0	660
DEC					JUL				
17...	1650	4.5	6.0	750	12...	0905	7.2	15.5	970
JAN , 1985					AUG				
14...	1345	3.7	7.0	1200	16...	1100	3.9	14.0	1130
FEB					SEP				
12...	1140	3.8	9.5	1320	13...	0950	4.1	9.5	1150
10224100 OAK CREEK ABOVE LITTLE CREEK, NEAR OAK CITY, UT (LAT 39°21'23", LONG 112°13'55")									
OCT , 1984					JUN , 1985				
10...	1610	.84	11.0	350	06...	1315	3.7	15.0	220
NOV					JUL				
01...	1340	1.3	6.0	290	11...	1505	1.0	21.0	295
JAN , 1985					AUG				
15...	1100	.94	.5	250	29...	1305	.68	18.0	305
APR					SEP				
05...	1235	8.5	8.0	175	25...	1500	.60	11.0	300
MAY									
08...	1115	10	8.0	130					
10224300 OAK CREEK BELOW BIG SPRING, NEAR OAK CITY, UT (LAT 39°21'11", LONG 112°17'07")									
OCT , 1984					MAY , 1985				
10...	1710	6.5	11.5	520	08...	1020	31	8.5	310
NOV					JUN				
01...	1455	6.5	9.0	490	06...	1200	13	13.0	415
JAN , 1985					JUL				
15...	1235	5.9	1.0	490	07...	1205	8.0	14.0	450
FEB					AUG				
27...	1210	5.7	6.5	450	15...	1210	5.6	14.0	--
APR					SEP				
05...	1235	24	8.0	360	25...	1350	3.7	11.0	500
BEAVER RIVER BASIN									
10234500 BEAVER RIVER NEAR BEAVER, UT (LAT 38°16'50", LONG 112°34'25")									
OCT , 1984					APR , 1985				
26...	1510	29	4.5	125	25...	1020	88	3.0	105
NOV					MAY				
27...	1250	35	.0	140	28...	0730	291	5.5	80
DEC					JUN				
27...	1030	27	2.0	130	18...	1205	126	12.0	94
JAN , 1985					JUL				
29...	1025	27	1.0	135	22...	1110	72	--	120
FEB					AUG				
25...	1130	25	2.0	140	26...	1650	34	15.0	130
MAR					SEP				
25...	1105	32	5.0	140	24...	1350	29	11.0	135
APR									
15...	1300	111	7.5	94					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
BEAVER RIVER BASIN--Continued									
10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UT (LAT 38°13'03", LONG 112°50'22")									
OCT , 1984					APR , 1985				
09...	1245	32	15.0	455	29...	1205	155	12.0	465
26...	1110	30	9.0	475	JUN				
NOV					18...	0910	143	16.0	445
27...	1000	8.3	6.5	530	JUL				
DEC					22...	--	8.7	--	560
27...	1140	52	4.5	485	AUG				
JAN , 1985					26...	1330	126	20.0	530
29...	1305	52	6.0	510	SEP				
FEB					24...	1050	7.3	12.0	560
25...	1400	55	7.5	510					
MAR									
25...	1250	55	9.0	520					

PAROWAN VALLEY									
10241470 CENTER CREEK ABOVE PAROWAN CREEK, NEAR PAROWAN, UT (LAT 37°47'35", LONG 112°48'55")									
OCT , 1984					APR , 1985				
02...	1050	6.7	7.0	275	12...	1210	9.0	10.0	400
NOV					29...	1210	11	7.0	410
07...	1050	5.4	5.0	305	MAY				
DEC					13...	1310	11	7.5	340
17...	1400	6.4	.0	325	JUN				
JAN , 1985					03...	1125	11	7.5	305
14...	1400	7.3	.0	300	19...	1125	15	9.0	230
FEB					JUL				
13...	1150	4.7	2.0	300	30...	--	11	--	240
MAR					AUG				
20...	1140	4.6	5.0	360	27...	1030	7.8	10.0	260

10241600 SUMMIT CREEK NEAR SUMMIT, UT (LAT 37°47'13", LONG 112°54'56")									
OCT , 1984					APR , 1985				
02...	1150	2.9	8.0	430	12...	1330	15	10.0	475
NOV					29...	1050	18	4.0	470
07...	1210	2.8	7.0	430	MAY				
DEC					13...	1140	20	4.0	460
17...	1220	2.8	.0	490	JUN				
JAN , 1985					03...	1030	11	7.0	510
14...	1215	3.2	.0	470	19...	1005	5.5	11.0	485
FEB					JUL				
13...	1025	2.6	1.5	470	30...	--	3.6	--	415
MAR					AUG				
20...	1010	2.1	4.0	540	27...	0915	2.2	12.0	440

CEDAR CITY VALLEY									
10242000 COAL CREEK NEAR CEDAR CITY, UT (LAT 37°40'20", LONG 113°02'02")									
OCT , 1984					MAY , 1985				
10...	1120	14	9.0	620	01...	1340	171	9.0	385
NOV					JUN				
07...	1350	16	8.5	610	05...	1455	63	16.5	475
DEC					JUL				
18...	1350	18	.5	610	30...	1445	26	16.0	580
JAN , 1985					AUG				
23...	1455	13	2.0	630	27...	1255	13	20.0	670
FEB					SEP				
26...	1410	18	6.0	630	19...	1750	16	14.0	600
APR									
01...	1350	24	12.0	780					

RAFT RIVER BASIN									
13077700 GEORGE CREEK NEAR YOST, UT (LAT 41°55'07", LONG 113°28'51")									
OCT , 1984					MAY , 1985				
05...	1330	4.2	9.5	155	07...	1415	22	9.5	--
NOV					JUN				
13...	1120	3.2	4.0	150	11...	1400	18	11.5	97
JAN , 1985					27...	1110	6.4	10.0	--
11...	1210	2.6	3.5	440	JUL				
FEB					22...	1300	3.8	14.5	180
14...	1415	2.2	3.0	520	AUG				
MAR					26...	1700	2.6	16.0	165
12...	1520	2.3	6.0	160					

Figure 22.—Location of observation wells in Utah where data were obtained on ground-water levels.

GROUND-WATER LEVELS

371

BEAVER COUNTY

38255112555101. LOCAL NUMBER, (C-27-10)25cbd-1.

LOCATION.--Lat 38°25'51", Long 112°55'51", Hydrologic Unit 16030007.

Owner: Phillips Petroleum.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled well, diameter 6 in., depth 400 ft.

DATUM.--Land-surface datum is 5,320 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--April 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 323.75 ft below land-surface datum, May 15, 1976; lowest, 327.01 ft below land-surface datum, Mar. 2, 1985.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	326.38	326.38	326.47	326.48	326.53	326.72	326.64	326.57	e326.55	326.52	e326.85	e326.96
10	326.39	326.47	326.27	326.56	326.42	326.66	326.76	326.57	e326.53	e326.60	e326.90	e326.95
15	326.05	326.40	326.52	326.51	326.80	326.78	326.57	326.57	326.48	e326.65	e326.95	e326.94
20	326.30	326.28	326.36	326.66	326.77	326.76	326.68	326.49	326.49	e326.70	e327.00	e326.93
25	326.15	326.62	326.43	326.62	326.73	326.85	326.64	e326.61	326.52	e326.75	e327.00	326.96
EOM	326.13	326.27	326.70	326.65	326.75	326.65	326.41	e326.58	326.52	e326.80	e326.97	326.96

382020112585901. LOCAL NUMBER, (C-28-10)28cdd-1.

LOCATION.--Lat 38°20'20", Long 112°58'59", Hydrologic Unit 16030007.

Owner: Wiseman.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 16 in., depth 360 ft, cased to 60 ft.

DATUM.--Land-surface datum is 5,019 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--April 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.99 ft below land-surface datum, Sep. 30, Oct. 1, 1984; lowest, 59.26 below land-surface datum, Oct. 8, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.04	13.88	14.99	e15.90	16.78	17.37	18.02	18.01	18.83	17.02	20.32	28.08
10	13.12	14.09	15.13	e16.05	16.90	17.50	18.10	18.66	17.37	17.12	22.73	24.41
15	13.19	14.24	15.25	e16.18	17.05	17.58	18.18	19.08	16.02	17.57	24.51	23.03
20	13.31	14.45	15.40	e16.37	17.05	17.72	18.32	19.47	15.85	19.98	25.73	19.91
25	13.53	14.54	e15.60	16.47	17.26	17.78	18.34	19.10	16.16	20.58	26.79	18.24
EOM	13.69	14.78	e15.75	16.63	17.32	17.97	17.65	19.35	16.57	20.02	27.12	17.42

BOX ELDER COUNTY

414236112101201. LOCAL NUMBER, (B-11-3)10abb-4.

LOCATION.--Lat 41°42'36", Long 112°10'12", Hydrologic Unit 16010204.

Owner: Rocky Mountain Packing Company.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 705 ft, cased to 437 ft.

DATUM.--Land-surface datum is 4,318 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--October 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.00 ft below land-surface datum, Jul. 27, Sep. 12, 1984; lowest, 24.43 ft below land-surface datum, Mar. 5, 9, 10, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.16	14.58	15.05	15.78	16.12	16.54	17.16	17.33	17.17	17.13	16.80	16.64
10	14.25	14.61	15.18	15.69	16.19	16.73	17.23	17.21	17.18	17.12	16.80	16.62
15	14.26	14.67	15.00	15.88	16.45	16.79	17.26	17.30	17.20	17.05	16.78	16.61
20	14.27	14.80	15.26	15.94	16.39	16.88	17.22	17.25	17.17	17.03	16.73	16.57
25	14.41	14.81	15.43	16.03	16.51	16.95	17.28	17.25	17.13	16.88	16.73	16.63
EOM	14.46	14.92	15.52	16.06	16.59	17.07	17.33	17.17	17.13	16.80	16.71	16.64

e Estimated.

GROUND-WATER LEVELS

BOX ELDER COUNTY--Continued

41441112543701. LOCAL NUMBER, (B-12-9)30cda-1.

LOCATION.--Lat 41°44'11", long 112°54'37", Hydrologic Unit 16020309.

Owners: U.S. Geological Survey.

AQUIFER.--Basalt.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in., depth 162 ft, cased to 131 ft.

DATUM.--Land-surface datum is 4,239 ft above mean sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.70 ft below land-surface datum, June 20, 1985; lowest, 25.53 ft below land-surface datum, Oct. 15, 20, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.15	24.15	24.11	24.08	24.02	23.93	23.83	24.30	23.80	23.78	23.87	23.93
10	24.11	24.16	24.07	24.08	24.05	23.91	23.87	24.28	23.73	23.81	23.86	23.94
15	24.18	24.14	24.06	24.05	24.03	23.87	23.96	24.22	23.71	23.82	23.86	23.97
20	24.20	24.13	24.06	24.04	23.96	23.84	24.04	24.09	23.70	23.83	23.90	24.00
25	24.16	24.09	24.07	24.07	23.99	23.81	24.14	23.99	23.75	23.84	23.96	24.01
EOM	24.14	24.09	24.08	24.04	23.98	23.82	24.23	23.88	23.76	23.84	23.92	24.04

415703112514501. LOCAL NUMBER, (B-14-9)9add-1.

LOCATION.--Lat 41°57'03", long 112°51'45", Hydrologic Unit 16020309.

Owner: Hogan.

AQUIFER.--Basalt.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 20 in., depth 400 ft, cased to 395 ft.

DATUM.--Land-surface datum is 4,384 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 163.55 below land-surface datum, Feb. 24, 1985; lowest, 177.03 below land-surface datum, Oct. 1, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	168.33	165.88	165.24	164.63	164.34	e163.62	e163.92	e164.30	170.76	174.25	173.08	174.70
10	167.71	165.80	164.86	164.63	164.08	e163.60	e163.99	164.15	171.57	175.07	173.30	174.17
15	167.29	165.57	164.98	164.52	164.03	163.66	e164.06	165.86	172.45	175.40	171.81	172.03
20	166.91	165.49	164.83	164.53	163.93	e163.72	e164.12	167.95	172.84	175.17	173.78	170.85
25	166.53	165.28	164.94	164.27	e163.65	e163.78	e164.19	167.19	173.45	175.34	174.40	171.03
EOM	166.19	165.21	164.68	164.37	e163.64	e163.86	e164.25	167.81	173.67	174.84	174.50	170.05

DAVIS COUNTY

405447111524301. LOCAL NUMBER, (A-2-1)18abd-12.

LOCATION.--Lat 40°54'47", long 111°52'43". Hydrologic Unit 16020102.

Owner: T. Q. Williams.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Jettied unused artesian well, diameter 2 in., depth 90 ft, cased to 90 ft.

DATUM.--Land-surface datum is 4,285 ft above mean sea level. Measuring point: Top of recorder shelter support, 2.40 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--May 1938 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 31.60 ft above land-surface datum, June 9, 1944; lowest, 2.70 ft above land-surface datum Aug. 5, 1961.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.20	22.80	22.50	21.00	20.90	19.90	19.20	19.40	18.00	16.40	16.90	18.90
10	23.20	22.90	22.60	20.80	20.50	19.40	19.30	18.40	15.90	e16.40	16.90	19.40
15	24.80	22.70	22.20	21.40	20.30	19.90	19.40	18.70	15.90	e16.50	18.10	19.90
20	22.10	23.20	21.40	20.70	20.00	19.10	18.30	19.40	16.00	e16.60	17.40	20.40
25	22.10	23.10	21.60	21.20	20.30	18.90	19.20	18.60	16.70	e16.70	e17.60	21.00
31	22.40	22.90	21.60	21.30	19.80	19.10	19.60	19.40	15.70	e16.80	17.90	20.60

e Estimated.

GROUND-WATER LEVELS

373

IRON COUNTY

375241112471001. LOCAL NUMBER, (C-34-8)5bca-1.

LOCATION.--Lat 37°52'41", long 112°47'10", Hydrologic Unit 16030006.

Owner: Paragonah Canal Company.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 420 ft.

DATUM.--Land-surface datum is 5,802 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--September 1935 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.45 ft below land-surface datum, June 26, 1949; lowest, 42.40 ft below land-surface datum, Sept. 7, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.64	28.73	28.27	27.98	27.98	27.89	27.98	27.92	e28.20	28.64	28.79	29.29
10	29.31	28.78	27.97	27.95	28.21	27.90	28.01	27.87	e28.30	28.69	28.85	29.35
15	28.90	28.77	28.14	27.86	28.16	27.88	28.03	27.95	28.33	28.71	28.92	29.38
20	28.78	28.66	28.21	28.01	28.00	27.91	27.97	e27.97	28.40	28.67	29.05	29.46
25	28.73	28.53	28.19	28.06	28.06	27.85	27.92	e28.00	28.50	28.66	29.14	29.48
EOM	28.68	28.27	28.18	27.98	27.99	28.02	27.99	e28.10	28.64	28.72	29.20	29.48

374524113421501. LOCAL NUMBER, (C-35-17)15bdc-1.

LOCATION.--Lat 37°45'24", long 113°42'15", Hydrologic Unit 16030006.

Owner: Austin D. Moyle.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 16 in., depth 100 ft, perforated 26-35 ft, 60-70 ft, 90-100 ft.

DATUM.--Land-surface datum is 5,166.20 ft above mean sea level. Measuring point: Top of tie, at land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--May 1937 to December 1942, August 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 25.99 ft below land-surface datum, Apr. 16, 1938; lowest, 82.74 ft below land-surface datum, July 9, 1985.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e76.52	e75.15	74.12	73.64	73.29	72.97	72.71	77.26	80.87	82.67		---
10	e76.03	e74.93	73.97	73.61	73.29	72.95	72.68	78.06	81.40	---		---
15	e76.08	e74.71	73.89	73.51	73.17	72.90	72.62	78.26	81.64	---		81.97
20	e75.86	e74.49	73.80	73.45	73.04	72.86	75.06	79.01	81.19	---		80.50
25	e75.64	e74.27	73.76	73.45	73.09	72.76	75.74	79.71	81.34	---		79.59
EOM	e75.37	74.16	73.74	73.34	73.07	72.84	75.98	80.42	82.14	---		78.96

374132113063601. LOCAL NUMBER, (C-36-11)8aab-1.

LOCATION.--Lat 37°41'32", long 113°06'36", Hydrologic Unit 16030006.

Owner: Cedar City Corporation.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 220 ft.

DATUM.--Land-surface datum is 5,563 ft above mean sea level. Measuring point: Top of casing, 3.50 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--September 1935 to December 1943, March 1945 to March 1973, April 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.67 ft below land-surface datum, Sept. 2/, 1943; lowest, 100.08 ft below land-surface datum, Sept. 10, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	56.28	53.76	52.43	51.24	50.06	48.89	48.27	47.45	49.70	56.84	57.00	60.05
10	55.61	53.55	52.09	51.15	50.07	48.84	48.17	47.14	49.99	57.96	58.50	59.80
15	55.05	53.25	51.87	50.87	49.64	48.68	48.04	47.08	51.53	59.36	60.00	59.55
20	54.70	52.99	51.72	50.66	49.22	48.57	47.88	46.98	52.95	58.95	60.85	58.77
25	54.48	52.62	51.58	50.55	49.30	48.30	47.69	47.07	53.95	55.73	60.60	58.68
EOM	54.03	52.57	51.48	50.22	49.21	48.51	47.70	48.46	55.54	56.10	60.30	58.14

e Estimated.

GROUND-WATER LEVELS

IRON COUNTY--Continued

374053113415101. LOCAL NUMBER, (C-36-16)6cbc-1.

LOCATION.--Lat 37°40'53", long 113°41'51", Hydrologic Unit 16030006.

Owner: RedCo Silver, Inc.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in., depth 270 ft, perforated 81-85 ft, 95-100 ft, 114-120 ft, 144-147 ft, 156-162 ft, 182-184 ft, 188-193 ft, 198-202 ft, 218-222 ft, 227-232 ft, 249-252 ft, 257-259 ft, 263-267 ft.

DATUM.--Land-surface datum is 5,210.67 ft above mean sea level. Measuring point: Bottom lip of access pipe, at land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--December 1951 to December 1953, April 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 73.35 ft below land-surface datum, Apr. 4, 1952; Lowest, 143.00 ft below land-surface datum, Aug. 2, 1985.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	137.73	134.80	133.87		---	129.67	129.32	---		---	---	
10	137.19	134.51	134.05		---	---	---	---		---	---	
15	136.66	134.11	134.36		---	129.44	---	---		---	---	
20	136.15	133.79	---		---	129.50	---	---		---	---	
25	135.70	133.48	---		---	129.28	---	---		---	---	
EOM	135.16	133.49	---		---	129.32	---	---		---	---	

374306113422501. LOCAL NUMBER, (C-36-17)1acc-1.

LOCATION.--Lat 37°43'06", long 113°42'25", Hydrologic Unit 16030006.

Owner: RedCo Silver, Inc.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 4 in., depth 200 ft, cased to 200 ft.

DATUM.--Land-surface datum is 5,208.41 ft above mean sea level. Measuring point: Top of casing, 1.50 ft above land-surface datum.

REMARKS.--Records fair.

PERIOD OF RECORD.--April 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 111.11 ft below land-surface datum, Apr. 11, 1975; lowest, 156.58 ft below land-surface datum, Sept. 7, 1985.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	153.14	151.69	150.90	149.89	148.88	148.04	147.19	147.29	150.13	153.13	e154.83	156.45
10	153.02	151.58	150.71	149.70	148.77	147.98	147.05	147.89	150.63	153.69	e154.98	e156.49
15	152.81	151.28	150.53	149.41	148.53	147.82	146.88	148.32	150.88	154.07	e155.13	e156.36
20	152.57	151.19	150.36	149.23	148.35	147.70	146.72	148.53	151.29	e154.36	155.25	e156.14
25	152.34	150.76	150.19	149.14	148.34	147.54	146.58	148.97	151.83	e154.51	155.70	e155.99
EOM	152.18	151.00	150.05	148.95	148.26	147.45	146.78	149.59	152.46	e154.68	156.15	e155.80

373643113415301. LOCAL NUMBER, (C-36-17)36add-1.

LOCATION.--Lat 37°36'43", long 113°41'53", Hydrologic Unit 16030006.

Owner: Sherwood Bracken.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 14 in., depth 202 ft.

DATUM.--Land-surface datum is 5,269.89 ft above mean sea level. Measuring point: Top of casing, 0.50 ft above land-surface datum.

REMARKS.--There are several nearby pumped wells. Records good.

PERIOD OF RECORD.--July 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 112.40 ft below land-surface datum, Mar. 24, 1950; lowest, 183.94 ft below land-surface datum, Sept. 10, 1977.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	169.72	167.67	e166.10	e164.80	e163.55	e162.95	e161.80	163.00	168.78	175.08	173.51	176.88
10	170.15	167.42	e165.90	e164.50	e163.45	e162.80	e161.70	163.94	167.96	175.08	174.97	176.47
15	169.33	167.13	e165.70	e164.30	e163.35	e162.60	e161.50	167.06	171.32	174.63	175.86	176.17
20	168.77	166.82	e165.50	e164.10	e163.25	e162.40	e161.40	166.07	172.41	173.69	176.14	175.94
25	168.47	166.43	e165.30	e163.90	e163.15	e162.20	161.57	168.27	172.81	173.40	176.44	175.35
EOM	168.02	166.34	e165.00	163.65	e163.05	e162.00	161.81	167.85	173.58	173.07	177.19	174.95

e Estimated.

GROUND-WATER LEVELS

375

JUAB COUNTY

393143111523301. LOCAL NUMBER, (C-15-1)12aba-1.

LOCATION.--Lat 39°31'43", long 111°52'33", Hydrologic Unit 16030005.

Owner: R. C. Mangelsen.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled stock artesian well, diameter 6 in., depth 117 ft, cased to 117 ft.

DATUM.--Land-surface datum is 5,196.90 ft above mean sea level. Measuring point: Top of casing, 1.50 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--August 1935 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 28.41 ft below land-surface datum, May 21, 1985; lowest, 62.16 ft below land-surface datum, June 20, 1936.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.43	29.09	28.83	28.84	28.89	29.10	e28.70	e28.50	e29.00	30.37	30.96	31.46
10	29.42	29.06	28.71	28.78	28.91	29.17	e28.70	e28.50	29.08	30.52	30.48	31.60
15	29.42	29.04	28.67	28.80	29.00	28.83	e28.60	e28.50	29.09	30.82	30.41	31.88
20	29.42	28.99	28.70	28.77	28.89	e28.80	e28.60	e28.50	29.35	30.54	31.22	32.00
25	29.14	28.82	28.76	28.83	29.09	e28.70	e28.60	e28.60	29.45	30.76	31.53	32.02
EOM	29.07	28.90	28.80	28.78	29.10	e28.70	e28.60	e28.80	30.08	30.86	31.25	32.20

MILLARD COUNTY

393046112231301. LOCAL NUMBER, (C-15-5)15dad-1.

LOCATION.--Lat 39°30'46", long 112°23'13", Hydrologic Unit 16030005.

Owner: Anaconda Copper Co.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 1,190 ft, cased to 1,115 ft, perforated 860-1,050 ft.

DATUM.--Land-surface datum is 4,780 ft above mean sea level. Measuring point: Top of 12-in. casing, 2.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--January 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 99.36 ft below land-surface datum, May 14, 1985; lowest, 174.62 ft below land-surface datum, Aug. 24, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	101.00	100.62	100.75	100.31	99.98	99.76	99.67	99.54	99.61	99.71	99.41	e99.55
10	100.86	100.68	100.47	100.37	100.10	99.90	99.66	99.48	99.49	99.71	99.50	e99.60
15	100.80	100.62	100.48	100.20	100.05	99.89	99.46	99.44	99.60	99.71	99.62	e99.70
20	100.71	100.71	100.51	100.11	99.72	99.77	99.47	99.51	99.65	99.68	99.57	e99.75
25	100.69	100.40	100.33	100.21	99.98	99.71	99.50	99.45	99.58	99.56	99.78	e99.80
EOM	100.68	100.60	100.27	100.13	100.02	99.82	99.51	99.45	99.77	99.40	99.60	99.69

393020112362201. LOCAL NUMBER, (C-15-7)23bac-1.

LOCATION.--Lat 39°30'20", long 112°36'22", Hydrologic Unit 16030007.

Owner: U. S. Geological Survey.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 182 ft.

DATUM.--Land-surface datum is 4,629 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--August 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.76 ft below land-surface datum, Apr. 15-20, 1985; lowest, 15.91 ft below land-surface datum, Oct. 16, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.87	9.76	9.72	9.36	9.13	8.98	8.82	8.92	9.10	9.31	9.31	9.20
10	9.85	9.77	9.61	9.24	9.08	8.97	8.81	8.88	9.13	9.36	9.24	9.18
15	9.79	9.77	9.51	9.25	9.10	8.94	8.76	8.95	9.18	9.36	9.25	9.17
20	9.79	9.75	9.44	9.20	8.98	8.92	8.76	8.97	9.20	9.37	9.25	9.17
25	9.81	9.64	9.41	9.20	9.06	8.83	8.79	9.00	9.20	9.35	9.25	9.17
EOM	9.76	9.72	9.37	9.14	9.06	8.88	8.90	9.04	9.27	9.31	9.22	9.19

e Estimated.

GROUND-WATER LEVELS

MILLARD COUNTY--Continued

390758113565501. LOCAL NUMBER, (C-19-19)26aba-1.

LOCATION.--Lat 39°07'58", long 113°56'55", Hydrologic Unit 16020301.

Owner: Eskdale town.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth unknown.

DATUM.--Land-surface datum is 4,948 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--April 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.55 ft below land-surface datum, Apr. 10-13, 15-17, 1985; lowest, 20.81 ft below land-surface datum, Sept. 21-24, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.20	16.74	16.42	16.13	15.88	15.71	15.57	15.69	15.86	16.03	16.03	15.92
10	17.10	16.67	16.33	16.09	15.84	15.69	15.55	15.74	15.88	16.10	16.00	15.95
15	17.03	16.62	16.27	16.05	15.82	15.68	15.55	15.79	15.89	16.12	15.97	16.01
20	16.96	16.55	16.25	16.00	15.78	15.66	15.57	15.80	15.90	16.14	15.94	16.06
25	16.89	16.48	16.21	15.97	15.78	15.61	15.63	15.81	15.95	16.15	15.93	16.06
EOM	16.80	16.44	16.17	15.91	15.75	15.60	15.66	15.85	15.99	16.07	15.91	16.06

385844112245801. LOCAL NUMBER, (C-21-5)21aba-1.

LOCATION.--Lat 38°58'44", long 112°24'58", Hydrologic Unit 16030005.

Owner: Delbert Crapo.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 246 ft, cased to 220 ft.

DATUM.--Land-surface datum is 4,744.44 ft above mean sea level. Measuring point: Top of casing, 0.50 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--May 1929 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.96 ft above land-surface datum, Feb. 24, 1949; lowest, 83.02 ft below land-surface datum, July 20, 1965.

DEPTH BELOW AND ABOVE (-) LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.97	.69	.32	---	---	---	---	---	---	11.49	11.91	11.35
10	4.59	.55	.34	---	---	---	---	---	---	12.79	13.56	10.31
15	2.40	.41	.10	---	---	---	---	---	7.57	13.30	15.16	9.47
20	1.87	.23	-0.20	---	---	---	---	---	11.59	8.90	14.66	8.85
25	1.51	.01	-0.60	-1.20	---	-1.40	-1.31	7.27	9.65	9.45	12.31	7.32
EOM	.96	.08	-0.72	---	---	---	---	---	8.52	10.62	12.28	7.00

SALT LAKE COUNTY

403916111575901. LOCAL NUMBER, (C-2-1)9ccc-1.

LOCATION.--Lat 40°39'16", long 111°57'59", Hydrologic Unit 16020204.

Owner: Salt Lake County Conservancy District.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled artesian unused public supply well, diameter 16 in., depth 795 ft, perforated 187-372 ft.

DATUM.--Land-surface datum is 4,461 ft above mean sea level. Measuring point: Top of casing, 2.10 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--April 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 49.75 ft below land-surface datum, Oct. 25, 1971; lowest, 86.80 ft below land-surface datum, July 25, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	80.85	80.77	82.28	82.90	82.63	82.52	81.79	83.53	84.67	85.32	85.07	85.09
10	80.98	81.04	81.69	82.90	82.63	82.55	81.80	83.84	84.93	85.13	85.07	84.98
15	81.09	81.41	81.59	82.84	82.68	82.50	82.04	83.82	85.11	85.08	85.08	84.96
20	80.87	81.69	81.74	82.72	82.52	82.55	82.17	83.90	85.18	85.08	85.11	85.01
25	80.74	81.77	82.08	82.80	82.62	82.30	82.24	84.19	85.25	85.04	85.13	85.02
EOM	80.62	82.06	82.54	82.65	82.64	82.02	82.93	84.47	85.26	85.06	85.17	85.06

GROUND-WATER LEVELS

377

SALT LAKE COUNTY--Continued

404356111503901. LOCAL NUMBER, (D-1-1)16caa-1.

LOCATION.--Lat 40°43'56", long 111°50'39", Hydrologic Unit 16020204.

Owner: Salt Lake City Corporation.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 20 in., depth 502 ft, cased to 502 ft, perforated 90-486 ft.

DATUM.--Land-surface datum is 4,489.69 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--September 1934 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 47.32 ft below land-surface datum, Jun. 19-22, 1984; lowest, 70.65 ft below land-surface datum, Apr. 29, 1935.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e48.00	48.19	48.37	48.80	49.40	49.89	50.34	50.46	50.65	50.87	50.90	51.24
10	48.04	48.22	48.43	48.87	49.46	50.02	50.35	50.54	50.67	50.89	50.95	51.32
15	48.07	48.25	48.47	48.95	49.57	50.07	50.38	50.54	50.73	50.89	50.96	51.37
20	48.11	48.28	48.53	49.03	49.62	50.12	50.38	50.55	50.77	50.89	51.05	51.47
25	48.16	48.28	48.63	49.14	49.74	50.19	50.38	50.58	50.82	50.90	51.09	51.51
EOM	48.17	48.32	48.70	49.21	49.81	50.30	50.43	50.64	50.84	50.90	51.18	51.57

403452111484301. LOCAL NUMBER, (D-3-1)2ccc-1.

LOCATION.--Lat 40°34'52", long 111°48'43", Hydrologic Unit 16020204.

Owner: Metropolitan Water District.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 24 in., depth 1,007 ft, perforated 525-990 ft.

DATUM.--Land-surface datum is 5,000 ft above mean sea level. Measuring point: Top of flange, at land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--March 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 515.66 ft below land-surface datum, Nov. 25, 1958; lowest, 564.51 ft below land-surface datum, Oct. 1, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	548.38	543.73	540.58	538.21	536.28	535.05	534.53	537.86	541.71	548.05	551.76	554.64
10	547.53	543.29	539.77	537.78	536.20	535.09	534.47	e538.90	542.62	549.15	552.56	554.37
15	546.61	542.66	539.22	537.44	536.00	534.98	534.78	e539.40	543.77	549.95	553.15	553.55
20	545.81	542.01	539.02	536.99	535.30	534.86	535.55	e539.90	544.67	550.64	553.80	553.03
25	545.19	541.14	538.73	536.95	535.61	534.50	536.08	e540.40	546.27	550.38	554.72	552.15
EOM	544.35	540.78	538.52	536.44	535.52	534.84	536.92	e541.00	546.79	550.99	555.03	551.47

403330111531601. LOCAL NUMBER, (D-3-1)18cba-1.

LOCATION.--Lat 40°33'30", long 111°53'16", Hydrologic Unit 16020204.

Owner: Sandy City Corporation.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in. to 350 ft, 12 in. from 350-741 ft, 10 in. from 741-1,150 ft, perforated 400-1,150 ft.

DATUM.--Land-surface datum is 4,414 ft above mean sea level. Measuring point: Top of casing, 1.15 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 67.87 ft below land-surface datum, Apr. 10, 1975; lowest, 83.20 ft below land-surface datum, Aug. 6, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	73.11	71.02	70.41	70.33	70.38	69.98	70.22	74.16	74.50	77.86	78.14	78.15
10	72.85	70.90	70.21	70.27	70.43	70.03	70.48	74.58	75.66	78.07	78.65	77.95
15	72.08	70.70	70.08	70.15	70.27	69.97	71.28	73.58	76.23	77.89	78.85	76.41
20	71.34	70.63	70.13	70.25	69.99	70.01	72.13	73.43	76.74	77.93	78.94	75.59
25	71.24	70.39	70.20	70.34	70.09	69.93	72.09	73.88	76.96	76.80	79.43	74.94
EOM	71.14	70.37	70.25	70.32	70.13	70.10	73.40	74.40	76.41	77.38	79.29	75.00

e Estimated.

GROUND-WATER LEVELS

SAN JUAN COUNTY

375802109191301. LOCAL NUMBER, (D-33-24)30dab-1.

LOCATION.--Lat 38°58'02", long 109°19'13", Hydrologic Unit 14080203.

Owner: A. E. C.

AQUIFER.--Sandstone.

WELL CHARACTERISTICS.--Drilled unused well, diameter 10 in., depth 319 ft.

DATUM.--Land-surface datum is 6,916 ft above mean sea level. Measuring Point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 163.20 ft below land-surface datum, May 20, 1975; lowest, 202.89 ft below land-surface datum, July 25, 1958.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	166.03	166.07	165.69	165.66	165.00	164.90	164.58	164.39	164.47	165.19	165.66	165.98
10	166.12	166.00	165.62	165.37	164.99	164.92	164.72	164.18	164.65	165.39	165.64	165.99
15	165.73	165.99	165.38	165.31	165.20	164.82	164.61	164.36	164.81	165.37	165.70	166.00
20	165.82	165.97	165.33	165.32	164.73	164.81	164.26	164.31	164.71	165.52	165.88	166.07
25	166.00	165.41	165.58	165.37	165.06	164.59	164.11	164.32	164.77	165.53	166.04	166.09
EOM	165.86	165.66	165.47	164.95	165.07	164.74	164.52	164.32	165.10	165.64	166.06	166.12

373830109283201. LOCAL NUMBER, (D-36-22)22daa-1.

LOCATION.--Lat 37°38'30", long 109°28'32", Hydrologic Unit 14080201.

Owner: Joseph L. Nielson.

AQUIFER.--

WELL CHARACTERISTICS.--Drilled stock artesian well, diameter 7 in., depth 140 ft.

DATUM.--Land-surface datum is 6,200 ft above mean sea level. Measuring point: Top of recorder platform, 3.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--October 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 38.76 ft below land-surface datum, Aug. 11, 1985; lowest, 57.23 ft below land-surface datum, Oct. 20, 1960.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	40.67	41.32	41.57	e42.04	42.20	42.59	42.52	42.20	40.80	39.65	38.95	39.00
10	40.83	41.41	41.58	e42.08	42.27	42.74	42.58	41.79	40.47	39.59	38.86	39.07
15	40.50	41.49	41.50	e42.11	42.53	42.67	42.46	41.90	40.29	39.34	38.82	39.04
20	40.76	41.56	41.54	e42.14	42.10	42.76	42.15	41.63	39.87	39.23	38.98	39.08
25	41.03	41.07	41.95	42.37	42.58	42.50	41.89	41.36	39.71	39.10	39.06	39.04
EOM	41.01	41.46	42.01	42.02	42.67	42.77	42.43	40.97	39.86	39.00	39.01	39.12

TOOELE COUNTY

403539112282901. LOCAL NUMBER, (C-2-6)36dcc-1.

LOCATION.--Lat 40°35'39", long 112°28'29", Hydrologic Unit 16020304.

Owner: E. C. Walk.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 176 ft, cased to 166 ft.

DATUM.--Land-surface datum is 4,373.70 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--June 1940 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 72.82 ft below land-surface datum, June 11, 1952; lowest, 98.81 ft below land-surface datum, Oct. 7, 1961.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	79.17	78.72	78.77	78.84	79.14	79.74	80.39	80.53	79.76	81.16	81.83	82.41
10	79.09	78.62	78.64	78.84	79.35	79.83	80.42	80.28	80.13	81.28	82.02	82.43
15	79.06	78.64	78.67	78.75	79.42	79.96	80.33	79.99	80.54	81.34	82.13	82.40
20	78.98	78.66	78.71	78.69	79.38	80.03	80.35	79.90	e80.80	81.52	82.23	82.28
25	78.83	78.67	78.69	78.85	79.66	80.10	80.26	79.70	e80.90	81.36	82.37	82.14
EOM	78.81	78.68	78.87	78.98	79.76	80.34	80.25	79.58	80.83	81.53	82.54	82.10

e Estimated.

GROUND-WATER LEVELS

379

TOOELE COUNTY--Continued

401312112442301. LOCAL NUMBER, (C-7-8)10cbd-1.

LOCATION.--Lat 40°13'12", long 112°44'23", Hydrologic Unit 16020305.

Owner: Dugway Proving Ground.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 175 ft, cased to 175 ft, perforated 115-175 ft.

DATUM.--Land-surface datum is 4,850 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--November 1946 to March 1947, January 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 73.32 ft below land-surface datum, Jan. 26, 1951; lowest, 93.67 ft below land-surface datum, Oct. 15, 1966.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	79.05	78.64	78.42	78.06	77.82	77.53	77.36	77.21	77.33	77.73	77.92	78.20
10	78.97	78.65	78.22	78.15	77.91	77.51	77.28	77.21	77.31	77.74	77.85	78.22
15	78.90	78.60	78.17	77.97	77.70	77.48	77.20	77.28	77.35	77.75	77.97	78.11
20	78.86	78.49	78.18	77.88	77.46	77.43	77.23	77.27	77.39	77.88	78.07	78.26
25	78.79	78.40	78.10	77.95	77.66	77.34	77.19	77.20	77.56	77.88	78.10	78.21
EOM	78.73	78.35	78.21	77.83	77.64	77.51	77.32	77.24	77.67	77.86	78.17	78.13

UINTAH COUNTY

403158109372201. LOCAL NUMBER, (D-3-20)25abc-2.

LOCATION.--Lat 40°31'58", long 109°37'22", Hydrologic Unit 14060002.

Owner: H. T. Peltier.

AQUIFER.--Glacial outwash.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in., depth 43 ft, cased to 32 ft.

DATUM.--Land-surface datum is 5,992 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--May 1965 to August 1966, March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.97 ft below land-surface datum, July 5, 1966; lowest, 7.50 ft below land-surface datum, Sept. 5, 1974.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.43	6.05	6.15	6.22	6.24	6.17	5.80	6.21	4.49	3.86	1.04	5.25
10	4.63	6.04	6.18	6.20	6.27	6.08	5.97	6.00	5.18	4.38	1.42	5.47
15	4.62	6.08	6.22	6.21	6.26	5.71	6.13	6.17	5.31	4.40	4.08	5.18
20	4.40	6.11	6.19	6.24	6.24	4.67	5.96	6.21	4.98	4.45	4.63	4.93
25	5.39	6.10	6.20	6.19	6.21	5.04	6.01	6.23	4.33	3.93	4.88	5.40
EOM	5.98	6.10	6.19	6.21	6.21	5.49	6.22	3.07	1.35	2.87	5.14	5.63

UTAH COUNTY

401818112014501. LOCAL NUMBER, (C-6-2)14aba-1.

LOCATION.--Lat 40°18'18", long 112°01'45", Hydrologic Unit 16020201.

Owner: Coop Security Corp.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused irrigation artesian well, diameter 16 in., depth 1,258 ft, cased to 1,254 ft.

DATUM.--Land-surface datum is 4,865.70 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--December 1954 to April 1955, March 1963 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 109.06 ft below land-surface datum, Apr. 12, 1955; lowest, 141.41 ft below land-surface datum, Aug. 15, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	116.57	116.17	115.66	115.47	115.14	114.95	114.85	114.77	114.74	114.71	114.57	114.46
10	116.58	116.07	115.56	115.32	115.13	114.92	114.85	114.67	114.73	114.72	114.57	114.46
15	116.54	115.99	115.48	115.33	115.17	114.90	114.82	114.71	e114.74	114.64	114.54	114.44
20	116.52	115.90	115.46	115.25	115.01	114.90	114.72	114.68	e114.75	114.61	114.55	114.43
25	116.46	115.68	115.48	115.26	115.10	114.81	114.73	114.69	e114.75	114.57	114.58	114.43
EOM	116.23	115.67	115.46	115.16	115.09	114.87	114.82	114.71	e114.75	114.56	114.52	114.40

e Estimated.

GROUND-WATER LEVELS

UTAH COUNTY--Continued

402333111513401. LOCAL NUMBER, (D-5-1)8dcc-1.

LOCATION.--Lat 40°23'33", long 111°51'34", Hydrologic Unit 16020201.

Owner: Lehi Irrigation Co.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused irrigation artesian well, diameter 14 in., depth 240 ft, cased to 240 ft, perforated at 85, 105, 165, and 200 ft.

DATUM.--Land-surface datum is 4,555.03 ft above mean sea level. Measuring point: Top of recorder platform, 3.50 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--September 1935 to December 1936, April 1947, March 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.07 ft above land-surface datum, Apr. 10, 1984, 1983; lowest, 35.29 ft below land-surface datum, Aug. 31, 1963.

DEPTH BELOW AND ABOVE (-) LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1.50	.97	.73	1.38	.11	.22	2.14	7.28	7.85	8.33	9.08	10.18
10	1.53	.87	.87	1.38	.21	.35	2.87	6.85	7.97	9.83	9.02	9.33
15	1.29	.90	.93	1.36	.24	.45	4.13	4.50	9.25	8.70	10.34	7.56
20	1.09	1.01	1.03	-0.44	.18	1.69	4.05	2.78	11.30	8.00	10.65	6.38
25	1.13	.83	1.03	-0.44	.25	2.03	3.78	3.17	9.17	5.92	10.67	5.13
EOM	.97	.82	1.13	-0.22	.18	2.15	4.81	4.60	6.98	6.88	10.18	4.81

WASHINGTON COUNTY

371415113471501. LOCAL NUMBER, (C-41-17)7ada-1.

LOCATION.--Lat 37°14'15", long 113°47'15", Hydrologic Unit 15010008.

Owner: St. George City.

AQUIFER.--Navajo Sandstone.

WELL CHARACTERISTICS.--Diameter 12 in., depth 375 ft, cased to 203 ft.

DATUM.--Land-surface datum is 3,600 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--March 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 209.79 ft below land-surface datum, Jan 20, 1974; lowest, 233.08 ft below land-surface datum, Sept. 6, 7, 1985.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	231.31	230.52	e230.00	230.31	230.63	230.82	231.54	231.80	232.28	232.56	232.48	233.06
10	231.28	230.40	229.91	230.51	230.78	230.91	231.60	231.73	232.22	232.66	232.30	232.83
15	231.11	e230.25	e230.00	230.34	230.33	231.04	231.61	231.86	232.39	232.73	232.39	232.60
20	231.04	e230.20	e230.10	230.37	230.26	231.25	231.70	232.01	232.39	232.73	232.73	232.51
25	230.89	e230.20	e230.30	230.59	230.70	231.16	231.51	232.01	232.50	232.62	232.81	232.00
EOM	230.54	e230.10	e230.40	230.55	230.80	231.59	231.79	232.15	232.57	232.60	232.91	232.02

WEBER COUNTY

411544111461001. LOCAL NUMBER, (A-6-2)18bad-1.

LOCATION.--Lat 41°15'44", long 111°46'10", Hydrologic Unit 16020102.

Owner: U.S. Bureau of Reclamation.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in., depth 155 ft, perforated 105-115 ft, 125-145 ft.

DATUM.--Land-surface datum is 4,924 ft above mean sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--January 1956 to March 1966, October 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.93 ft below land-surface datum, June 5, 1985; lowest, 34.96 ft below land-surface datum, Nov. 30, 1956.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.09	15.91	16.03	18.23	21.99	21.68	20.19	16.31	7.93	14.57	16.85	18.04
10	17.16	15.55	15.86	19.16	22.67	21.90	18.83	16.06	12.13	14.59	18.40	18.82
15	17.08	15.32	15.95	22.37	22.34	22.02	18.61	12.12	11.97	15.44	17.47	17.95
20	16.20	15.58	16.23	20.97	22.21	21.72	17.47	9.84	12.52	16.20	19.32	19.21
25	16.26	15.35	17.53	21.00	23.08	21.19	14.88	9.49	12.04	14.62	20.93	20.28
EOM	16.13	15.16	17.57	21.35	22.25	21.01	15.76	8.67	12.13	14.65	20.89	20.77

e Estimated.

GROUND-WATER LEVELS

381

WEBER COUNTY--Continued

411348112013601. LOCAL NUMBER, (B-6-2)26ada-1.

LOCATION.--Lat 41°13'48", long 112°01'36", Hydrologic Unit 16020102.

Owner: Amalgamated Sugar Company.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in., depth 595 ft, cased to 400 ft.

DATUM.--Land-surface datum is 4,275 ft above mean sea level. Measuring point: Top of casing, 0.10 ft below land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--August 1935 to December 1950, January 1953 to October 1961, February 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 20.50 ft above land-surface datum, Mar. 11, 1937; lowest, 11.38 ft below land-surface datum, Sept. 10, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.07	2.01	2.63	2.84	2.02	1.37	1.01	2.62	3.44	5.28	6.85	8.15
10	2.83	2.03	2.73	2.67	1.90	1.33	1.16	2.78	3.71	5.61	7.07	8.05
15	2.57	2.18	2.81	---	1.78	1.24	1.50	2.95	4.03	5.88	7.35	7.71
20	2.39	2.33	2.88	2.38	1.58	1.21	1.98	3.02	4.32	6.16	7.57	7.48
25	2.24	2.37	3.02	2.26	1.54	1.13	2.25	3.03	4.63	6.41	7.80	7.29
EOM	2.05	2.50	3.03	2.14	1.52	1.12	2.44	3.17	4.97	6.65	8.03	7.10

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1984

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG)
BEAVER COUNTY											
383101112365301	(C-26- 7)26CAC- 1	100VLFL	250	08-09-83	590	7.8	15.0	260	90	80	15
382336112592601	(C-28-10) 8AAD- 1		200	07-14-83	1340	7.4	16.0	480	310	130	38
382313113021901	(C-28-11)12DBC- 1		--	07-12-84	1900	7.3	17.5	660	480	170	58
382020113015701	(C-28-11)25DCD- 1		431	08-24-83	2570	6.8	15.0	1300	1000	370	86
		100VLFL	431	08-15-84	1930	6.9	16.5	920	700	270	59
381835113000001	(C-29-10) 5CDD- 2	100VLFL	95	07-14-83	970	7.4	14.0	440	180	130	27
381700113033401	(C-29-11)14CDB- 1	100VLFL	--	07-14-83	450	8.1	18.0	150	40	42	10
381543113035501	(C-29-11)27AAD- 1	100VLFL	204	08-24-83	930	7.6	16.5	290	120	85	19
BOX ELDER COUNTY											
412214112023301	(B- 7- 2) 2CBA- 5	100VLFL	342	08-22-83	380	7.4	13.5	180	20	56	8.8
		100VLFL	342	08-14-84	420	7.7	13.5	180	24	58	9.2
412405112022501	(B- 8- 2)26BCD- 1	100VLFL	118	08-14-84	490	7.2	13.0	230	32	62	18
413057112023901	(B- 9- 2)15DAA- 1	100VLFL	465	08-14-84	650	8.2	17.0	9	--	2.1	0.9
413300113543001	(B-10-18)33AAA- 1		84	08-03-83	1010	7.4	13.5	390	140	110	27
			84	07-31-84	1400	7.5	12.0	520	250	150	35
414454112173101	(B-12- 4)27DBD- 1	100VLFL	478	06-28-84	1560	7.7	16.5	420	220	93	46
414406112173601	(B-12- 4)34BBD- 1		306	06-28-84	--	7.5	16.5	770	590	170	84
414339112173401	(B-12- 4)34CCA- 1		292	06-28-84	1730	7.5	16.5	530	340	120	56
414745113063901	(B-12-11) 4BCC- 1		230	07-10-84	3400	7.6	17.0	850	690	190	92
414813113075401	(B-12-11) 5BBB- 1	100VLFL	245	07-10-84	1970	7.4	15.0	760	550	210	58
414747113073701	(B-12-11) 5BDC- 1		190	08-09-83	2450	7.9	14.5	1000	810	290	70
			190	07-10-84	2900	7.7	14.0	1100	900	330	76
415721112262301	(B-14- 5) 8DDD- 1	100VLFL	105	06-28-84	830	7.5	13.5	290	9	92	15
415737112431601	(B-14- 8)11BCA- 1		416	08-02-83	2870	7.7	11.5	770	530	170	85
415845112562201	(B-14-10) 1BBB- 1		414	07-09-84	560	7.7	16.5	210	58	58	16
415850112481201	(B-15- 8)31CCC- 1		550	08-02-83	1440	7.5	20.0	400	240	91	43
415956112525201	(B-15- 9)28CBC- 1	100VLFL	400	08-09-83	6100	7.2	24.5	1600	1500	450	120
CACHE COUNTY											
414216111511001	(A-11- 1) 8DDA- 3	100VLFL	85	07-30-84	580	7.6	9.0	270	24	67	26
415020111520401	(A-13- 1)29BCD- 1	100VLFL	173	07-30-84	480	7.8	12.0	200	--	43	23
DAVIS COUNTY											
405019111560001	(B- 1- 1)10AAC- 1	100VLFL	231	07-31-84	2860	7.6	16.0	190	--	48	16
405451111540801	(B- 2- 1)24BAD- 3		386	08-17-84	490	7.6	16.5	120	--	35	7.6
410340112030001	(B- 4- 2)27ABA- 1		304	08-17-83	630	7.7	15.0	53	--	14	4.5
			304	08-15-84	650	7.9	14.0	51	--	13	4.4
410830111584001	(B- 5- 1)29BDC- 1		627	09-19-84	600	7.3	11.0	260	4	71	19
410835111591501	(B- 5- 1)30ADA- 1		900	08-23-83	590	7.2	12.5	250	17	71	18
			900	09-19-84	570	7.4	11.5	250	15	70	18
GARFIELD COUNTY											
375924112234001	(C-32- 5)35BAB- 1		456	08-29-83	300	7.6	14.5	120	3	35	7.8
GRAND COUNTY											
383539109340901	(D-25-21)26DCC- 1	112ALVM	22	03-14-84	570	7.7	16.0	280	86	79	19
		112ALVM	55	09-20-84	580	7.6	20.0	270	80	74	20
IRON COUNTY											
380218112421101	(C-32- 8)12ADB- 1	100VLFL	--	08-30-84	410	7.8	18.0	160	44	47	10
375320112510001	(C-33- 9)35ACD- 1		500	08-30-84	480	7.5	14.0	230	24	49	25
375151112525002	(C-34- 9) 9BBD- 2		324	06-30-83	520	7.3	11.5	260	55	54	31
			324	08-30-84	920	7.3	17.5	210	--	37	28
374834113384301	(C-34-16)28DCC- 2	100VLFL	148	06-27-83	1030	7.2	12.0	390	260	120	23
		100VLFL	148	06-18-84	1040	7.2	12.0	430	290	130	25
374753113464601	(C-34-17)32CCA- 1	100VLFL	306	09-06-84	520	7.5	21.0	180	10	57	8.5
374619113053101	(C-35-11) 9DBA- 1		--	08-31-84	620	7.6	19.0	300	140	60	37
374550113040601	(C-35-11)11CCC- 1		263	07-07-83	940	6.7	14.0	410	240	76	54
374248113075201	(C-35-11)31DBB- 1		--	08-04-83	730	7.7	14.0	370	210	77	44

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.
 112PVNT - PAYANT FLOW, PLEISTOCENE AGE.

REVISIONS.--The values for Dissolved Solids (Sum of Constituents) have been revised for water years 1983 and 1984, and values for Alkalinity (CAC03) have been included.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1984

383

DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	ALKA- LINITY (CACO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED BORON (B) (UG/L)
BEAVER COUNTY												
24	2.5	172	25	82	0.3	43	370	1.90	0.03	6	3	30
100	1.6	173	360	130	0.6	36	900	1.10	0.06	9	2	440
150	21	184	270	380	2.1	53	1200	2.40	0.07	50	70	360
110	12	256	860	280	0.2	45	1900	2.90	0.02	30	10	210
82	8.9	216	580	210	0.3	42	1400	2.70	0.02	8	<1	160
30	5.7	253	100	91	0.3	36	570	4.10	0.06	190	12	70
25	4.7	106	42	41	0.5	42	270	2.00	0.25	22	3	80
58	5.5	174	83	120	0.4	41	520	3.50	0.02	10	2	130
BOX ELDER COUNTY												
10	1.6	156	15	16	0.1	12	210	1.40	0.02	26	6	20
11	1.4	159	17	18	<0.1	12	220	1.60	0.03	15	10	20
7.8	2.1	197	36	9.6	0.1	11	270	<0.10	0.05	2100	290	30
160	1.6	309	17	13	0.7	17	400	<0.10	1.70	200	12	250
64	7.2	245	91	150	0.3	45	640	1.20	0.05	16	2	140
80	8.4	264	120	240	0.3	44	840	1.00	0.03	43	3	170
150	3.8	197	67	360	0.2	25	860	2.30	0.01	9	2	60
180	4.8	177	190	550	0.2	23	1300	3.40	<0.01	20	10	80
150	4.5	188	120	400	0.2	22	990	2.60	0.01	16	<1	70
330	21	167	41	980	0.3	46	1800	0.75	<0.01	70	<10	230
95	12	210	56	470	0.2	25	1100	5.00	<0.01	60	10	110
130	8.9	202	73	700	0.1	20	1400	5.20	0.02	20	10	160
140	9.8	240	78	760	0.1	20	1600	5.80	<0.01	50	10	160
75	1.9	283	28	18	0.1	39	440	29.0	0.02	13	6	110
330	20	248	310	690	0.8	49	1800	0.89	0.05	30	10	140
29	8.2	153	21	74	0.3	60	360	0.39	<0.01	9	2	50
130	4.0	164	31	360	0.2	20	780	0.61	0.04	4	<1	50
700	40	115	55	2000	0.2	69	3500	2.40	0.02	50	10	110
CACHE COUNTY												
6.6	1.3	250	24	9.0	0.2	9.3	290	1.30	0.45	7	2	30
24	1.6	220	13	8.5	0.1	11	260	0.23	0.45	260	56	60
DAVIS COUNTY												
530	28	372	7.3	750	1.5	53	1700	<0.10	--	770	120	--
63	0.9	169	26	30	0.2	17	280	1.80	0.03	6	3	30
130	5.5	275	5.6	47	0.5	32	400	0.47	0.59	300	57	90
130	5.7	276	5.6	45	0.4	32	400	<0.10	--	280	57	630
21	2.2	252	26	20	0.1	12	320	0.55	--	<3	3	50
19	1.8	234	23	27	0.2	12	310	1.30	0.02	17	11	30
19	2.1	234	27	18	0.1	12	310	0.97	--	19	7	40
GARFIELD COUNTY												
12	4.1	117	8.5	15	0.2	50	200	0.86	0.03	6	2	30
GRAND COUNTY												
18	2.6	190	110	18	0.3	14	370	1.10	0.02	7	2	40
18	3.0	187	95	19	0.3	14	360	1.00	0.01	3	2	40
IRON COUNTY												
17	6.1	115	21	41	0.2	56	270	1.10	0.01	5	3	60
12	3.2	201	23	16	0.2	25	270	3.10	0.02	<3	2	40
9.5	2.8	207	33	17	0.2	27	300	2.50	0.08	<3	1	30
130	3.1	349	88	33	0.2	27	560	5.00	0.02	9	2	50
35	8.0	138	89	180	0.5	61	600	2.00	0.03	5	2	100
37	8.5	139	93	200	0.6	61	640	1.90	0.03	10	9	90
36	9.0	167	79	19	0.6	70	380	0.84	0.02	10	2	180
15	2.9	158	170	8.2	0.4	22	410	0.71	<0.01	11	1	70
29	4.2	174	240	28	0.3	33	570	8.00	0.09	<3	<1	70
11	2.3	167	200	14	0.3	22	470	1.20	0.02	29	4	30

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.
221ENRD - ENTRADA SANDSTONE OF SAN RAFAEL GROUP, JURASSIC AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1984

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)
IRON COUNTY--Continued											
374649113305801	(C-35-15) 3DCC- 3	100VLFL	316	09-06-84	1870	7.3	14.5	730	590	170	74
374209113322203	(C-36-15) 4BAD- 3	100VLFL	320	09-06-84	740	7.6	21.0	130	--	41	7.7
374040113343102	(C-36-15) 7CDD- 2		500	06-27-83	1110	7.7	24.0	230	110	60	20
			500	07-06-84	1110	7.7	24.0	230	110	59	19
374212113394501	(C-36-16) 5L 1- 1	100VLFL	200	06-27-83	1910	7.2	13.0	880	530	270	50
374014113391101	(C-36-16) 9BDC- 2		--	07-27-83	445	7.3	15.0	190	10	60	10
373854113411501	(C-36-16) 19ABB- 1	100VLFL	352	06-27-83	445	7.2	11.0	180	36	55	10
373710113381201	(C-36-16) 27CDC- 1	100VLFL	344	07-27-83	650	7.2	17.0	280	58	85	16
373542113122401	(C-37-12) 9ACC- 1		186	08-04-83	350	7.5	16.0	150	13	50	6.3
373407113100801	(C-37-12) 23ACB- 1	100VLFL	365	08-31-84	760	7.7	14.5	340	200	75	36
373234113111601	(C-37-12) 34ABB- 1	100VLFL	190	08-31-84	810	7.6	11.0	460	120	120	39
JUAB COUNTY											
394518111515801	(D-12- 1) 19DBB- 1	100VLFL	248	07-18-83	1280	7.5	12.5	310	110	75	31
KANE COUNTY											
371034112230401	(C-42- 5) 11BDB- 1		160	07-19-83	780	7.2	13.5	370	180	88	37
370843112340602	(C-42- 6) 19BDC- 2	220NV JO	250	07-19-83	250	7.6	19.0	130	12	26	17
MILLARD COUNTY											
391234112233701	(C-18- 5) 34ADB- 3		512	08-10-83	1970	7.1	15.5	820	560	170	95
391326113595801	(C-18-19) 20BAD- 1	100VLFL	100	08-04-83	395	7.3	12.0	190	13	63	8.6
390759112194801	(C-19- 4) 29BCD- 1	100VLFL	390	06-21-84	770	7.1	13.5	330	140	72	37
390628112201401	(C-20- 4) 6ACA- 1	100VLFL	506	06-24-83	2560	7.1	13.5	1100	880	270	110
		100VLFL	506	06-21-84	3320	6.7	13.0	1500	1300	350	150
385714112264701	(C-21- 5) 29CBC- 1	100VLFL	250	08-13-84	3350	7.4	20.5	1200	910	310	100
385715112271201	(C-21- 5) 30DBC- 3	100VLFL	770	08-11-83	1970	7.2	19.0	690	430	170	64
		100VLFL	773	08-15-84	2060	7.2	19.5	730	470	180	68
390045112281201	(C-21- 6) 1DDB- 1	112PVNT	100	06-20-84	2310	7.3	12.5	860	490	190	94
385303112234801	(C-22- 5) 22ADC- 2	100VLFL	260	08-09-83	1120	7.3	15.5	310	50	76	28
385135112250301	(C-22- 5) 33ABD- 1	100VLFL	375	07-31-84	930	7.4	13.5	370	180	110	22
385026112261001	(C-23- 5) 5ACD- 1	100VLFL	353	08-09-83	880	7.3	14.0	370	92	94	32
384850112310701	(C-23- 6) 15BCA- 1		145	08-09-83	3160	7.4	17.0	810	510	220	64
384857112315701	(C-23- 6) 16BAD- 1	100VLFL	130	06-23-83	6200	6.9	16.5	1900	1600	510	150
384829112315901	(C-23- 6) 16CDA- 1	112PVNT	205	06-20-84	2440	6.8	15.5	820	540	220	66
384751112312201	(C-23- 6) 21ADD- 1	100VLFL	445	06-20-84	890	7.0	13.5	410	220	72	55
384748112315801	(C-23- 6) 21BDD- 1	112PVNT	415	06-20-84	5440	6.6	13.0	3500	3300	750	400
PIUTE COUNTY											
381440111584001	(C-29- 2) 35BAD- 1	122BRHD	197	07-11-84	460	7.0	15.5	200	16	55	15
RICH COUNTY											
415048111194001	(A-13- 6) 30BBB- 1		125	09-06-83	425	7.7	9.0	200	--	50	19
SALT LAKE COUNTY											
403408111543201	(C- 3- 1) 12CCB- 1	100VLFL	118	07-12-84	950	7.5	20.0	280	89	60	31
403316111554301	(C- 3- 1) 15DDA- 1	100VLFL	360	07-12-84	1220	7.6	14.5	470	320	120	41
403047112043401	(C- 3- 2) 33CAC- 1	100VLFL	350	09-19-84	1290	7.2	15.0	630	360	170	50
402721111550801	(C- 4- 1) 23DBB- 1	100VLFL	262	07-13-84	1040	7.8	13.5	300	65	64	33
403027112012401	(C- 4- 2) 1BBB- 1	100VLFL	540	07-13-84	1260	7.5	15.0	520	280	150	36
403742111503201	(D- 2- 1) 21DBC- 1	100VLFL	740	07-14-83	225	8.0	11.5	110	10	28	9.4
403116111524801	(D- 3- 1) 31ABB- 1	100VLFL	138	07-13-84	480	7.4	15.0	200	--	45	21
SAN JUAN COUNTY											
372540109113401	(D-39-25) 5ACA- 1	221ENRD	372	06-19-84	930	7.8	20.0	63	--	13	7.0
371716109325501	(D-40-22) 30BBB- 1	220JRSC	820	04-14-83	760	9.0	20.0	10	--	3.3	0.4
371621109211001	(D-40-23) 27BAA- 1	220JRSC	672	06-16-83	3000	7.6	20.0	110	--	24	11

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.
 112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

REVISIONS.--The values for Dissolved Solids (Sum of Constituents) have been revised for water years 1983 and 1984, and values for Alkalinity (CAC03) have been included.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1984

385

DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	ALKA- LINITY (CACO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED BORON (B) (UG/L)
IRON COUNTY--Continued												
110	6.6	142	490	250	0.4	56	1200	1.70	0.03	6	8	380
110	3.6	162	140	48	1.8	53	500	2.00	0.02	6	5	290
150	4.9	121	370	48	1.9	43	770	0.42	0.04	4	2	450
150	4.8	114	340	46	2.2	43	730	0.32	0.03	9	3	460
31	8.8	350	130	350	0.2	38	1100	7.60	0.06	<3	1	40
16	3.8	181	13	32	0.2	39	280	1.20	0.03	5	2	30
18	4.2	143	14	29	0.3	35	250	3.20	0.08	<3	1	40
19	3.2	220	25	55	0.1	44	380	3.00	0.05	4	<1	50
15	3.5	138	18	22	0.3	53	250	0.88	0.01	<3	<1	40
37	2.3	139	200	49	<0.1	18	500	1.40	<0.01	5	<1	90
16	2.5	340	150	9.2	0.2	18	560	1.70	<0.01	3	1	90
JUAB COUNTY												
130	3.4	208	87	230	0.2	25	710	1.40	0.07	9	2	60
KANE COUNTY												
25	2.9	190	220	12	0.2	12	510	3.30	0.03	13	3	80
4.1	2.4	123	8.0	3.8	<0.1	14	150	2.50	0.04	4	1	30
MILLARD COUNTY												
85	3.1	253	170	420	0.1	21	1100	7.50	0.04	14	<1	100
12	0.5	180	17	19	0.1	11	240	0.12	0.04	7	<1	30
28	2.2	195	24	78	0.2	18	380	6.00	0.01	15	5	190
110	4.8	249	490	460	0.3	23	1600	6.90	0.03	40	10	170
180	5.4	238	750	610	0.2	29	2200	5.40	0.01	70	20	290
290	23	273	810	520	0.5	15	2200	0.84	0.01	50	20	1100
160	13	259	400	290	0.4	19	1300	0.92	0.05	39	3	600
170	16	257	420	300	0.4	18	1300	0.84	0.01	40	<10	710
190	6.8	375	340	320	0.2	36	1400	7.60	0.03	50	20	350
110	20	255	74	180	0.7	13	660	0.99	0.01	12	<1	560
41	2.0	189	54	140	0.1	14	500	3.70	0.45	5	1	80
52	2.6	275	79	87	0.2	21	530	3.60	0.03	10	<1	150
340	54	307	370	620	1.6	40	1900	5.30	0.02	40	10	1500
830	87	336	970	1700	1.1	43	4500	2.10	0.04	50	10	3600
370	54	282	400	700	1.8	49	2000	--	0.02	--	--	1500
130	5.0	186	210	210	0.5	28	820	6.50	0.01	8	1	350
930	48	234	1700	2400	0.3	44	6400	24.0	0.02	100	30	2300
PIUTE COUNTY												
15	6.2	183	20	24	0.2	46	290	0.74	0.05	11	3	30
RICH COUNTY												
7.9	1.5	205	8.9	11	0.1	25	250	<0.10	0.01	34	74	10
SALT LAKE COUNTY												
79	8.2	184	110	120	0.3	34	560	0.23	--	<3	<1	--
57	3.1	141	130	240	0.1	24	700	1.30	--	13	2	--
44	4.4	265	200	200	0.2	34	860	--	--	--	--	--
89	8.8	231	130	130	0.7	24	620	1.60	--	7	<1	--
56	7.8	242	76	230	0.2	50	750	1.50	--	6	2	--
8.4	1.6	99	20	7.4	0.3	11	150	0.82	--	<3	<1	--
17	8.9	231	1.4	11	0.5	39	280	<0.10	--	1200	500	--
SAN JUAN COUNTY												
160	21	376	56	5.6	1.1	9.0	500	<0.10	0.01	4	9	460
180	1.1	339	53	14	0.4	11	470	--	--	--	--	--
680	15	823	210	450	1.5	11	1900	--	--	--	--	--

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
 220JRSC - JURASSIC SYSTEM, JURASSIC AGE.
 220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.
 221ENRD - ENTRADA SANDSTONE OF SAN RAFAEL GROUP, JURASSIC AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1984

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)
SEVIER COUNTY											
385910111512101	(C-21- 1)13ABD- 1		291	08-09-83	790	7.6	19.0	140	21	30	17
384800112002001	(C-23- 2)15DCB- 4	100VLFL	75	08-09-83	660	7.4	12.0	330	53	69	38
		100VLFL	75	07-10-84	870	7.1	11.5	410	130	85	48
384450112034001	(C-24- 2) 6ABC- 1	100VLFL	308	08-09-83	1290	7.1	12.0	610	300	160	50
383140111522001	(C-26- 1)23ddb- 1	100VLFL	200	08-10-83	245	7.6	12.0	73	--	23	3.9
		100VLFL	200	07-11-84	170	7.6	12.0	78	--	25	3.7
TOOELE COUNTY											
403532112253601	(C- 3- 5) 4BBB- 2	100VLFL	410	07-06-83	1400	7.5	17.0	370	190	91	34
400418112271701	(C- 8- 5)31CCD- 5		60	07-14-83	930	7.5	12.0	360	230	110	20
UTAH COUNTY											
402355111531501	(C- 5- 1)12DAA- 2		330	07-18-84	750	7.6	15.0	300	150	66	33
401607112023401	(C- 6- 2)26CBB- 1	100VLFL	505	07-13-83	475	8.0	11.5	220	4	38	30
395956111572101	(C- 9- 1)28CCB- 1		802	07-17-84	1140	7.5	18.5	280	150	71	24
395825111571801	(C-10- 1) 4CBB- 1	100VLFL	1218	07-18-84	1740	7.4	17.5	610	420	130	69
402259111525201	(D- 5- 1)18CAB- 2		618	07-28-83	330	7.6	15.0	120	--	25	13
			618	07-18-84	310	7.8	16.0	120	--	26	13
402145111531101	(D- 5- 1)19CCC- 1	111ALVM	150	07-17-84	--	7.4	14.0	130	14	32	12
402103111461601	(D- 5- 2)30CCB- 2		225	07-28-83	840	7.4	12.0	340	140	76	37
401021111362701	(D- 7- 3)33BAA- 6	100VLFL	138	07-29-83	560	7.2	13.5	260	39	68	22
		100VLFL	138	07-17-84	530	7.4	12.5	260	32	68	22
400751111392201	(D- 8- 2)12DDC- 1	100VLFL	172	07-17-84	510	7.6	16.0	240	20	55	26
400311111432001	(D- 9- 2) 9BAC- 1	100VLFL	445	08-09-84	640	7.4	14.0	290	24	69	28
WASHINGTON COUNTY											
373456113423501	(C-37-17)12BDC- 2		290	08-24-83	180	7.5	24.0	76	--	23	4.4
373419113434201	(C-37-17)14BAC- 1	100VLFL	100	08-08-83	640	7.1	13.0	260	--	77	16
371305113470401	(C-41-17)17CBA- 1		626	08-09-84	540	7.4	17.5	270	74	81	17
370915113232302	(C-42-14)11ACA- 2		--	08-09-84	910	7.3	24.0	700	510	150	79
370515113310302	(C-42-15)34DBA- 2		265	08-04-83	5660	6.6	17.0	2300	2000	610	190
370036113282801	(C-43-14)31BBB- 1		--	08-09-84	3400	7.1	19.0	2000	1900	560	150
WEBER COUNTY											
411531112064602	(B- 5- 2) 6BDD- 3	100VLFL	609	08-15-84	380	8.0	17.5	150	--	42	11
411531112064601	(B- 5- 2) 6BDD- 4	100VLFL	303	08-15-84	470	7.9	18.0	150	--	38	14
411717112053301	(B- 6- 2) 5ACB- 2		850	09-05-84	495	7.8	16.5	67	--	19	4.8
411702112071701	(B- 6- 2) 6CBC- 2	100VLFL	512	08-14-84	940	7.7	19.0	180	19	45	16
412011112041401	(B- 7- 2)16DCD- 2	100VLFL	1176	08-14-84	355	7.6	27.0	69	--	21	4.0
411824112060101	(B- 7- 2)32BBB- 1		546	08-14-84	2450	7.8	19.0	350	210	73	41
411821112034601	(B- 7- 2)34BBB- 2	100VLFL	517	08-22-83	1760	7.6	17.5	360	200	92	31

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.
 112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

REVISIONS.--The values for Dissolved Solids (Sum of Constituents) have been revised for water years 1983 and 1984, and values for Alkalinity (CAC03) have been included.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1984

387

DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	ALKA- L INITY (CACO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED BORON (B) (UG/L)
SEVIER COUNTY												
95	4.7	124	87	110	0.6	41	460	0.31	0.01	<3	<1	260
19	3.3	276	44	41	0.5	33	410	0.94	0.02	<3	<1	50
21	3.8	275	71	71	0.4	33	500	1.00	0.03	<3	<1	50
59	4.3	306	390	31	0.2	31	910	2.50	0.04	3	7	180
10	2.8	83	4.0	8.7	0.3	41	140	0.30	0.01	<3	<1	30
9.1	2.9	78	4.1	8.8	0.3	42	140	0.31	0.04	<3	<1	30
TOOELE COUNTY												
170	3.4	179	41	350	0.1	22	820	1.20	0.01	33	4	70
47	1.3	126	41	190	0.1	17	500	0.90	0.03	9	1	50
UTAH COUNTY												
33	3.0	152	78	110	0.3	19	430	1.20	0.19	56	2	40
19	3.1	214	23	24	0.4	55	320	0.18	0.05	11	14	60
100	14	128	110	210	0.3	65	670	5.20	0.02	19	4	130
110	13	193	140	380	0.3	62	1000	5.20	0.02	14	5	180
18	1.9	127	8.0	19	0.4	16	180	0.30	0.06	6	2	20
18	2.3	121	8.1	17	0.4	16	170	0.31	0.14	9	4	30
7.8	1.2	115	14	6.6	0.3	15	160	0.33	0.01	10	<1	40
35	1.7	202	160	26	0.3	14	470	4.00	0.04	150	2	60
14	1.6	221	47	14	0.2	11	310	0.76	0.04	7	<1	30
14	1.7	228	45	10	0.2	11	310	1.00	0.03	17	2	30
13	3.1	224	25	15	0.2	27	300	<0.10	0.02	890	62	30
32	9.1	264	47	30	0.3	51	420	3.40	0.03	8	2	70
WASHINGTON COUNTY												
8.8	2.5	87	4.8	4.7	0.3	23	120	0.26	0.10	18	130	20
42	6.0	267	23	35	0.4	53	410	4.00	0.08	<3	<1	80
18	2.5	198	35	16	0.3	22	310	0.57	0.02	5	18	50
62	7.6	190	550	58	0.4	27	1000	3.20	0.03	19	8	180
510	20	307	2000	760	0.5	25	4300	4.90	0.01	100	20	1100
140	16	88	2100	77	0.3	14	3100	8.30	0.01	40	10	570
WEBER COUNTY												
22	2.5	156	15	12	0.2	20	220	<0.10	<0.01	460	77	30
36	7.7	221	1.5	15	0.3	18	260	<0.10	0.12	250	130	90
86	3.0	226	1.8	27	0.6	21	300	<0.10	--	490	51	150
97	7.9	159	0.8	170	0.3	29	460	<0.10	--	87	170	140
49	7.1	165	3.9	8.0	0.7	29	220	<0.10	0.01	130	44	60
330	22	140	1.1	690	0.3	30	1300	<0.10	--	230	310	320
190	5.4	159	1.0	420	0.4	23	860	<0.10	<0.01	890	250	150

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

- 122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
- 220JRSC - JURASSIC SYSTEM, JURASSIC AGE.
- 220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.
- 221ENRD - ENTRADA SANDSTONE OF SAN RAFAEL GROUP, JURASSIC AGE.

QUALITY OF GROUND WATER
 WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG)
BEAVER COUNTY											
382924112592901	(C-28-10) 5ADD- 1	100VLFL	--	07-11-85	720	8.0	17.0	220	130	54	21
382336112592601	(C-28-10) 8AAD- 1		200	07-11-85	1300	--	15.0	--	--	--	--
382204113001302	(C-28-10) 17CDC- 2	100VLFL	220	07-10-85	920	--	24.5	280	150	61	31
382313113021901	(C-28-11) 12DBC- 1		--	07-11-85	2180	7.6	17.5	760	580	200	64
382313113020901	(C-28-11) 12DBC- 2		--	06-21-85	2250	7.3	17.0	820	640	210	72
382020113015701	(C-28-11) 25DCD- 1	100VLFL	431	07-11-85	1850	--	16.0	--	--	--	--
381516112422201	(C-29- 8) 25CAC- 1	100VLFL	290	09-27-85	295	7.9	19.0	97	2	30	5.3
381435112471401	(C-29- 8) 31ADD- 1	100VLFL	310	06-14-85	670	7.6	15.5	320	190	70	35
381835113000001	(C-29-10) 5CDD- 2	100VLFL	95	06-21-85	960	--	14.0	--	--	--	--
		100VLFL	95	07-10-85	960	--	13.5	--	--	--	--
381714113003401	(C-29-10) 18DAA- 1	100VLFL	298	07-08-85	600	8.2	13.5	260	82	79	16
381901113014101	(C-29-11) 1ADD- 1	100VLFL	64	07-09-85	1000	7.3	14.0	430	200	130	26
381700113033401	(C-29-11) 14CDB- 1	100VLFL	--	06-21-85	440	--	18.5	--	--	--	--
		100VLFL	--	07-09-85	440	8.1	17.5	--	--	--	--
381543113035501	(C-29-11) 27AAD- 1	100VLFL	204	06-21-85	890	--	15.0	--	--	--	--
		100VLFL	204	07-09-85	920	7.6	14.0	--	--	--	--
BOX ELDER COUNTY											
412214112023301	(B- 7- 2) 2CBA- 5	100VLFL	342	08-29-85	420	--	11.5	--	--	--	--
412405112022501	(B- 8- 2) 26BCD- 1	100VLFL	118	08-22-85	530	--	13.0	--	--	--	--
413637113545401	(B-10-18) 4DCC- 1	100VLFL	65	06-27-85	1120	--	9.5	--	--	--	--
413545113544901	(B-10-18) 9DCA- 1		526	06-27-85	1080	--	10.0	--	--	--	--
413452113543701	(B-10-18) 21AAB- 1	100VLFL	62	06-27-85	1220	--	10.0	--	--	--	--
413358113543801	(B-10-18) 28AAB- 1	100VLFL	250	06-26-85	1300	--	10.0	--	--	--	--
413300113543001	(B-10-18) 33AAA- 1		84	06-27-85	1760	7.4	10.5	730	450	210	50
414211113525001	(B-11-18) 2CAC- 1		--	06-27-85	360	--	17.0	--	--	--	--
413808113542501	(B-11-18) 33ADA- 1	100VLFL	59	06-27-85	1080	--	9.5	--	--	--	--
413806113543401	(B-11-18) 33ADB- 1		200	06-27-85	1080	--	10.0	--	--	--	--
414618112164101	(B-12- 4) 14CBC- 1		35	08-06-85	1350	--	17.0	--	--	--	--
414551112170101	(B-12- 4) 22AAC- 1		680	06-24-85	1050	--	17.0	--	--	--	--
414552112161001	(B-12- 4) 23BAD- 1		665	06-24-85	1130	--	16.5	--	--	--	--
414510112163501	(B-12- 4) 26BBB- 1	100VLFL	680	06-24-85	1830	--	14.0	--	--	--	--
414454112173101	(B-12- 4) 27DBD- 1		478	06-24-85	1870	--	15.0	--	--	--	--
414418112154801	(B-12- 4) 35AAB- 1		651	06-24-85	1660	--	15.0	--	--	--	--
414406112163601	(B-12- 4) 35BBB- 1	100VLFL	668	06-24-85	880	--	16.5	--	--	--	--
414745113063901	(B-12-11) 4BBC- 1	100VLFL	230	06-26-85	3090	7.7	16.5	780	620	170	87
414802113073701	(B-12-11) 5BAC- 1		220	06-26-85	3390	--	14.0	--	--	--	--
414813113074801	(B-12-11) 5BBA- 1	100VLFL	230	06-26-85	1890	--	15.0	--	--	--	--
414813113075401	(B-12-11) 5BBB- 1	100VLFL	245	06-26-85	1680	7.6	14.0	690	540	190	52
414720113071601	(B-12-11) 8ABB- 1		275	06-26-85	2190	7.5	13.0	990	810	290	64
414720113073101	(B-12-11) 8BAB- 2	100VLFL	--	06-26-85	2330	--	12.5	--	--	--	--
414720113075201	(B-12-11) 8BBB- 1	100VLFL	350	06-26-85	2520	--	13.0	--	--	--	--
414900112271701	(B-13- 5) 31DAA- 1		405	06-28-85	1670	7.8	19.0	390	130	84	44
415721112262301	(B-14- 5) 8DDD- 1		105	08-06-85	810	7.6	12.0	--	--	--	--
415832112464301	(B-14- 8) 5BDB- 1		180	06-08-85	2000	--	19.0	--	--	--	--
415800112462601	(B-14- 8) 5CDD- 1		180	06-25-85	1890	--	14.5	--	--	--	--
415825112470501	(B-14- 8) 6ADD- 1		460	06-06-85	1800	--	19.5	--	--	--	--
415844112525201	(B-14- 9) 4BBB- 2	100VLFL	4	08-07-85	6900	--	22.0	--	--	--	--
415823112525301	(B-14- 9) 4BCC- 1		365	08-07-85	4300	--	20.5	--	--	--	--
415847112532901	(B-14- 9) 5BAA- 1	100VLFL	405	06-25-85	1270	--	18.0	--	--	--	--
415847112540401	(B-14- 9) 5BBB- 1	100VLFL	300	06-25-85	660	7.7	16.0	250	120	74	17
415754112551301	(B-14- 9) 7BBB- 1		608	06-28-85	800	7.8	9.0	300	160	83	22
415635112533001	(B-14- 9) 17CAA- 1		608	06-28-85	2630	--	17.5	--	--	--	--
415608112551201	(B-14- 9) 19BBB- 1		--	06-28-85	1000	--	15.0	--	--	--	--
415845112562201	(B-14-10) 1BBB- 1	100VLFL	414	06-25-85	510	--	15.0	--	--	--	--
415956112525201	(B-15- 9) 28CBC- 1	100VLFL	400	08-07-85	7250	7.8	24.5	2000	1900	570	140
415955112540301	(B-15- 9) 29CBC- 1		400	06-25-85	3810	--	21.0	--	--	--	--
415927112543801	(B-15- 9) 31ABC- 1	100VLFL	407	06-25-85	570	--	16.5	--	--	--	--
415941112495801	(B-15- 9) 35ABB- 1		404	06-25-85	2650	--	23.0	--	--	--	--
415908112484801	(B-15- 9) 36CAD- 1		255	06-25-85	2910	--	19.5	--	--	--	--
415954112555201	(B-15-10) 25CAD- 1		--	06-25-85	480	--	15.0	--	--	--	--
CACHE COUNTY											
414216111511001	(A-11- 1) 8DDA- 3	100VLFL	85	07-26-85	540	--	10.0	--	--	--	--
415020111520401	(A-13- 1) 29BCD- 1	100VLFL	173	07-26-85	460	--	14.0	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.
 112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

389

DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	ALKA- LINITY (CACO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED BORON (B) (UG/L)
BEAVER COUNTY												
58	3.0	93	89	120	0.3	26	430	0.68	<0.01	17	<1	50
--	--	--	--	--	--	--	--	--	--	--	--	--
88	3.0	128	190	100	0.9	31	580	0.45	<0.01	8	<1	150
170	22	182	280	390	1.9	52	1300	30.0	0.03	50	70	140
160	21	179	280	390	1.9	52	1300	0.31	0.03	30	80	360
--	--	--	--	--	--	--	--	--	--	--	--	--
21	7.8	95	40	6.2	0.7	72	240	<0.10	<0.01	11	60	50
88	3.0	128	210	120	0.8	30	630	0.49	<0.01	5	1	170
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
26	4.4	181	54	46	0.3	36	370	1.90	0.05	<3	<1	40
41	5.9	227	91	130	0.3	40	600	2.80	0.03	9	<1	220
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
BOX ELDER COUNTY												
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
100	9.8	283	210	340	0.2	45	1100	1.60	0.04	16	<1	220
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
340	21	164	43	950	0.3	44	1800	0.73	<0.01	40	<10	240
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
93	10	147	60	450	0.2	25	970	4.30	<0.01	17	<1	110
110	9.1	176	77	610	0.1	24	1300	3.60	<0.01	40	<10	90
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
230	11	263	50	430	1.4	82	1100	0.77	0.03	50	32	150
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
30	9.1	134	25	120	0.2	56	410	1.30	0.02	10	<1	50
44	12	134	22	170	0.3	65	500	0.72	0.01	25	<1	50
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
600	44	79	83	2400	0.2	5.8	3900	1.80	<0.01	50	10	110
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
CACHE COUNTY												
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

GEOLOGICAL UNIT (AQUIFER)--Continued

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.
221ENRD - ENTRADA SANDSTONE OF SAN RAFAEL GROUP, JURASSIC AGE.

QUALITY OF GROUND WATER
 WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

STATION NUMBER	LOCAL IDENT- IFIER	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
DAVIS COUNTY											
405535111525101	(A- 2- 1) 7ABA- 4	100VLFL	450	09-05-85	280	7.5	17.5	76	--	17	8.2
405451111540801	(B- 2- 1) 24BAD- 3	100VLFL	386	08-07-85	530	--	16.5	--	--	--	--
410340112030001	(B- 4- 2) 27ABA- 1		304	08-23-85	690	--	14.0	--	--	--	--
410830111584001	(B- 5- 1) 29BDC- 1		627	08-29-85	590	--	11.0	--	--	--	--
410835111591501	(B- 5- 1) 30ADA- 1		900	08-29-85	570	--	11.5	--	--	--	--
GARFIELD COUNTY											
375924112234001	(C-32- 5) 35BAB- 1		456	06-28-85	310	--	14.5	--	--	--	--
GRAND COUNTY											
383539109340901	(D-25-21) 26DCC- 1	112ALVM	55	09-04-85	600	--	22.0	--	--	--	--
IRON COUNTY											
375257112483501	(C-33- 8) 31CCC- 2		450	06-14-85	550	7.6	16.0	240	47	50	27
375320112510001	(C-33- 9) 35ACD- 1	100VLFL	500	08-22-85	455	--	14.0	--	--	--	--
375151112525002	(C-34- 9) 9BBD- 2		324	08-22-85	890	7.4	11.0	460	130	110	46
375033112561101	(C-34-10) 13CBD- 2	100VLFL	--	08-22-85	490	7.7	12.5	240	29	48	28
374834113384301	(C-34-16) 28DCC- 2	100VLFL	148	05-22-85	1040	7.4	13.0	450	330	140	25
374753113464601	(C-34-17) 32CCA- 1	100VLFL	306	05-22-85	520	--	21.5	--	--	--	--
374619113053101	(C-35-11) 9DBA- 1		--	06-14-85	700	--	14.0	--	--	--	--
374550113040601	(C-35-11) 11CCC- 1		263	06-10-85	930	--	16.0	--	--	--	--
374304113052901	(C-35-11) 33AAC- 1		136	08-22-85	1000	7.2	11.0	580	330	140	56
374649113305801	(C-35-15) 3DCC- 3		316	05-22-85	1900	--	14.0	--	--	--	--
374623113381301	(C-35-16) 9ADD- 1		150	05-22-85	880	7.4	13.0	420	260	130	22
374412113384503	(C-35-16) 21DCC- 3	100VLFL	300	05-22-85	470	7.4	15.0	220	57	67	12
374227113394101	(C-35-16) 32DCD- 1	100VLFL	140	05-23-85	1010	7.3	15.5	510	260	160	28
374209113322203	(C-36-15) 4BAD- 3	100VLFL	320	05-22-85	750	--	21.0	--	--	--	--
374040113343102	(C-36-15) 7CDD- 2		500	05-22-85	1060	--	24.0	--	--	--	--
374014113391101	(C-36-16) 9BDC- 2		--	05-23-85	430	--	14.0	--	--	--	--
373542113122401	(C-37-12) 9ACC- 1		186	06-10-85	375	--	15.5	--	--	--	--
373407113100801	(C-37-12) 23ACB- 1	100VLFL	365	06-10-85	840	--	15.0	--	--	--	--
JUAB COUNTY											
393342111534501	(C-14- 1) 26BBD- 1	100VLFL	--	07-22-85	1300	--	14.0	--	--	--	--
393249111532601	(C-14- 1) 35DDA- 1	100VLFL	--	07-22-85	1080	--	13.0	--	--	--	--
393235111525201	(C-15- 1) 1BAA- 1	100VLFL	280	07-22-85	1210	--	12.0	--	--	--	--
393142111523501	(C-15- 1) 12ABA- 2	100VLFL	--	07-22-85	1850	--	13.0	--	--	--	--
394225111495701	(D-13- 1) 4CCA- 1	100VLFL	375	07-23-85	1510	7.3	11.5	510	150	140	39
394226111501601	(D-13- 1) 5DDA- 1	100VLFL	336	07-23-85	1510	--	11.0	--	--	--	--
394226111502101	(D-13- 1) 5DDB- 3	100VLFL	350	07-23-85	1500	--	11.0	--	--	--	--
393312111521001	(D-14- 1) 31BCB- 1	100VLFL	--	07-22-85	1250	--	11.5	--	--	--	--
MILLARD COUNTY											
393154112192901	(C-15- 4) 8CBA- 1	100VLFL	203	06-24-85	3410	7.1	14.5	1100	810	240	120
392939112224101	(C-15- 5) 26BAA- 1	100VLFL	1150	06-28-85	900	8.0	19.0	270	110	54	32
392913112364301	(C-15- 7) 27DAA- 1		65	03-11-85	780	--	14.5	--	--	--	--
391324114000001	(C-18-19) 20DDD- 1	100VLFL	90	07-23-85	415	--	13.5	120	--	29	11
390759112194801	(C-19- 4) 29BCD- 1	100VLFL	390	06-27-85	790	7.8	15.0	340	110	76	37
390700112203201	(C-19- 4) 31DBB- 1	100VLFL	523	07-11-85	1500	7.3	14.0	640	430	140	70
390224112243401	(C-20- 5) 28DDA- 1		448	08-15-85	2300	7.4	15.0	--	--	--	--
390027112264001	(C-21- 5) 6CCC- 1	100VLFL	448	06-28-85	1300	7.3	13.0	440	160	110	41
385939112272302	(C-21- 5) 7CDD- 2		96	06-25-85	1750	7.4	13.0	600	300	130	66
385915112253701	(C-21- 5) 16BCC- 2	100VLFL	448	06-26-85	640	7.3	13.5	290	52	68	30
385916112261402	(C-21- 5) 17BDD- 2		371	06-26-85	700	7.3	13.0	330	60	79	33
385937112270601	(C-21- 5) 18ABA- 1	100VLFL	150	06-25-85	1210	7.4	13.0	420	140	100	41
385918112264902	(C-21- 5) 18ADA- 2		135	08-12-85	1100	7.1	--	--	--	--	--
385806112254001	(C-21- 5) 20DAD- 1	100VLFL	293	06-27-85	640	7.5	13.5	300	50	73	28
385752112243201	(C-21- 5) 28AAA- 1	100VLFL	510	06-27-85	640	7.2	14.5	310	120	76	30
385725112261501	(C-21- 5) 29BDD- 2	100VLFL	632	06-27-85	1000	7.6	18.0	300	23	77	25
385714112264701	(C-21- 5) 29CBC- 1	100VLFL	250	06-14-85	2900	7.1	20.0	1100	790	270	92
385715112271201	(C-21- 5) 30DBC- 3	100VLFL	773	06-27-85	2050	6.9	19.5	710	500	170	70
385611112272601	(C-21- 5) 31CDD- 2	100VLFL	800	06-27-85	980	7.3	17.0	310	80	82	25
385611112252801	(C-21- 5) 33CCD- 1	100VLFL	250	06-28-85	930	7.5	15.0	320	140	87	24

GEOLOGICAL UNIT (AQUIFER):

100VFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.
 112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

391

DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	ALKA- LINITY (CACO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED BORON (B) (UG/L)
DAVIS COUNTY												
30	1.7	93	7.2	14	0.1	19	150	1.30	0.04	4	2	30
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
GARFIELD COUNTY												
--	--	--	--	--	--	--	--	--	--	--	--	--
GRAND COUNTY												
--	--	--	--	--	--	--	--	--	--	--	--	--
IRON COUNTY												
26	3.0	189	30	30	0.2	30	310	1.60	0.04	10	1	80
--	--	--	--	--	--	--	--	--	--	--	--	--
12	3.5	333	85	34	0.2	28	520	4.70	<0.01	16	2	40
17	4.6	206	27	16	0.3	43	310	1.70	<0.01	<3	<1	50
34	8.3	127	93	200	0.5	64	640	2.00	0.01	12	2	100
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
15	2.9	254	310	14	0.2	16	710	4.90	<0.01	4	<1	50
--	--	--	--	--	--	--	--	--	--	--	--	--
22	6.3	153	55	130	0.2	51	510	3.10	0.03	5	2	70
17	5.1	160	22	36	0.2	52	310	1.80	0.02	31	9	30
25	6.9	258	58	150	0.2	48	630	3.50	0.03	<3	2	40
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
JUAB COUNTY												
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
130	4.3	365	110	200	0.2	23	870	8.80	0.02	14	<1	80
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
MILLARD COUNTY												
340	8.6	287	520	700	0.2	28	2100	0.94	<0.01	210	520	370
75	3.4	156	120	110	0.2	24	510	0.79	<0.01	11	2	120
--	--	--	--	--	--	--	--	--	--	--	--	--
25	4.0	128	9.9	17	0.1	14	190	0.18	<0.01	6	<1	20
28	0.4	231	24	81	0.1	19	400	5.90	<0.01	<3	<1	40
--	--	--	--	--	--	--	--	--	--	--	--	--
53	2.6	203	110	280	0.2	23	800	6.20	<0.01	6	<1	50
--	--	--	--	--	--	--	--	--	--	--	--	--
110	3.5	279	170	130	0.1	25	760	5.40	0.02	<3	<1	260
160	4.1	295	430	140	0.2	27	1100	6.70	<0.01	<3	<1	600
21	1.8	241	16	19	0.1	24	320	3.50	<0.01	<3	<1	50
--	--	--	--	--	--	--	--	--	--	--	--	--
20	1.5	273	17	53	0.1	19	390	3.50	<0.01	12	<1	40
100	2.8	275	140	100	0.1	24	670	5.70	0.01	4	<1	290
--	--	--	--	--	--	--	--	--	--	--	--	--
16	1.5	248	18	35	0.1	16	340	3.30	<0.01	5	1	40
17	1.4	198	16	32	0.1	17	310	3.80	0.02	5	<1	40
--	--	--	--	--	--	--	--	--	--	--	--	--
90	14	272	120	62	0.7	15	570	6.00	<0.01	15	1	590
250	21	260	690	470	0.4	19	2000	1.10	0.01	50	<10	970
180	15	217	450	290	0.3	18	1300	0.96	<0.01	40	<10	600
72	15	228	94	110	1.5	16	550	1.10	<0.01	9	<1	320
57	7.6	179	86	130	0.5	13	510	1.70	<0.01	<3	<1	200

GEOGOGICAL UNIT (AQUIFER)--Continued

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.
221ENRD - ENTRADA SANDSTONE OF SAN RAFAEL GROUP, JURASSIC AGE.

QUALITY OF GROUND WATER
 WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)
MILLARD COUNTY--Continued											
390045112281201	(C-21- 6) 10DB- 1	112PVNT	105	07-10-85	1850	7.3	13.0	630	260	140	67
385557112252901	(C-22- 5) 48BD- 1	100VLFL	401	07-09-85	1360	7.3	15.0	440	220	120	33
385529112245401	(C-22- 5) 40CA- 1	100VLFL	250	08-15-85	1650	7.7	16.0	--	--	--	--
385438112251401	(C-22- 5) 9CAD- 2	100VLFL	527	07-09-85	3000	7.0	20.0	1000	810	280	83
385359112262001	(C-22- 5) 17BDD- 2	100VLFL	375	07-10-85	670	7.5	15.0	--	--	--	--
385347112260401	(C-22- 5) 17BDD- 2	100VLFL	560	07-09-85	860	7.4	15.0	270	87	72	22
385308112250302	(C-22- 5) 21ACD- 2	100VLFL	340	07-10-85	1000	7.0	14.0	340	65	95	26
385135112250301	(C-22- 5) 33ABD- 1	100VLFL	375	07-10-85	920	7.3	13.5	370	190	110	22
385542112301901	(C-22- 6) 3DAA- 1		337	06-13-85	2800	7.5	18.0	770	620	180	78
385015112333601	(C-23- 6) 5CBC- 1	112PVNT	162	06-13-85	8000	7.0	15.0	2500	2200	620	230
384815112331401	(C-23- 6) 17CDC- 1		440	06-12-85	8800	7.2	16.5	2500	2400	550	280
384830112323501	(C-23- 6) 17DAD- 1		135	06-12-85	6200	7.2	14.5	2000	1800	440	230
384755112330401	(C-23- 6) 20BDA- 1	100VLFL	--	06-13-85	4180	7.4	16.0	1400	1200	310	140
384741112330501	(C-23- 6) 20CAA- 1		307	06-13-85	5200	7.2	14.0	1800	1700	350	230
384722112322101	(C-23- 6) 28BBB- 2	100VLFL	415	07-11-85	6300	7.4	14.0	2100	1900	380	280
384818114002801	(C-23-19) 20BAC- 1		415	07-24-85	1100	7.5	18.0	2500	2200	620	230
PIUTE COUNTY											
381440111584001	(C-29- 2) 35BAD- 1	122BRHD	197	06-28-85	435	--	15.0	--	--	--	--
381003112010301	(C-30- 2) 28BDC- 1		135	06-28-85	425	9.9	14.0	200	--	54	15
SALT LAKE COUNTY											
405047112014301	(B- 1- 2) 2DAC- 2	100VLFL	440	09-05-85	830	8.2	27.0	49	--	13	3.9
404659112005601	(B- 1- 2) 36BAA- 1	100VLFL	464	09-05-85	6000	7.6	27.0	820	680	220	66
404306112031201	(C- 1- 2) 22BDD- 4		35	12-07-84	1820	--	13.0	--	--	--	--
		100VLFL	35	09-05-85	1940	7.8	12.0	270	32	55	32
403408111543201	(C- 3- 1) 12CCB- 1	100VLFL	118	09-05-85	920	--	20.0	--	--	--	--
403036112001501	(C- 3- 1) 31CCB- 1		480	08-13-85	1450	--	13.5	--	--	--	--
403058112021501	(C- 3- 2) 35BDC- 1	100VLFL	269	08-13-85	2070	--	12.0	--	--	--	--
403027111590601	(C- 4- 1) 5BBB- 1	100VLFL	393	08-13-85	3900	--	13.0	--	--	--	--
402721111550801	(C- 4- 1) 23DBB- 1	100VLFL	262	09-05-85	1070	7.6	17.0	330	120	72	37
404506111523301	(D- 1- 1) 7ABD- 6	100VLFL	130	12-07-84	1080	--	14.0	--	--	--	--
		100VLFL	130	09-05-85	1160	7.3	13.5	540	270	130	52
SAN JUAN COUNTY											
371716109325501	(D-40-22) 30BBB- 1	220JRSC	825	09-03-85	780	--	19.5	--	--	--	--
SANPETE COUNTY											
393529111365701	(D-14- 3) 20BBA- 1	100VLFL	151	08-20-85	520	--	9.0	--	--	--	--
391919111361701	(D-17- 3) 20ACC- 1	100VLFL	--	08-19-85	680	--	11.0	--	--	--	--
391640111384101	(D-18- 2) 1CAA- 1	100VLFL	--	08-19-85	780	--	9.5	--	--	--	--
391626111384701	(D-18- 2) 1CDB- 1	100VLFL	300	08-19-85	790	--	11.0	--	--	--	--
391634111380701	(D-18- 2) 1DAA- 2	100VLFL	233	08-19-85	880	--	11.0	--	--	--	--
391641111391401	(D-18- 2) 2ADD- 1	100VLFL	154	08-19-85	800	--	11.0	--	--	--	--
SEVIER COUNTY											
385910111512101	(C-21- 1) 13ABD- 1		291	06-27-85	780	--	18.0	--	--	--	--
384800112002001	(C-23- 2) 15DCB- 4	100VLFL	75	06-27-85	880	--	13.5	--	--	--	--
384702112031001	(C-23- 2) 19DAB- 1	100VLFL	75	06-27-85	535	7.5	16.5	260	57	49	33
384450112034001	(C-24- 2) 6ABC- 1	100VLFL	308	06-27-85	1390	--	12.5	--	--	--	--
383140111522001	(C-26- 1) 23DDB- 1	100VLFL	200	06-28-85	180	--	16.0	--	--	--	--
TOOELE COUNTY											
403656112174901	(C- 2- 4) 28DAB- 1	100VLFL	178	06-20-85	890	--	13.0	--	--	--	--
403606112195401	(C- 2- 4) 31ADD- 6	100VLFL	271	06-19-85	700	--	15.5	--	--	--	--
403550112203601	(C- 2- 4) 31CDA- 2	100VLFL	500	06-19-85	1260	--	16.5	--	--	--	--
403629112174801	(C- 2- 4) 33BDD- 1	100VLFL	421	08-01-85	1500	--	13.0	--	--	--	--
403608112164201	(C- 2- 4) 34ADC- 1	100VLFL	303	06-20-85	820	--	13.5	--	--	--	--
403550112243202	(C- 2- 5) 33DAD- 4	100VLFL	120	06-21-85	1710	--	16.0	--	--	--	--
403555112230302	(C- 2- 5) 35CBD- 2	100VLFL	601	06-21-85	2240	--	20.0	--	--	--	--
403559112224301	(C- 2- 5) 35DBB- 2		--	08-01-85	2450	--	20.0	--	--	--	--
403603112215801	(C- 2- 5) 36CBA		100	06-20-85	970	--	14.0	--	--	--	--
403552112211401	(C- 2- 5) 36DAC- 1	100VLFL	346	06-20-85	1610	--	17.5	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.
 112PVNT - PAYANT FLOW, PLEISTOCENE AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

393

DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	ALKA- LINITY (CACO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED BORON (B) (UG/L)
MILLARD COUNTY--Continued												
160	5.8	368	240	230	0.2	32	1100	6.30	0.01	8	<1	280
110	12	218	170	210	0.6	13	800	0.81	<0.01	5	<1	480
--	--	--	--	--	--	--	--	--	--	--	--	--
260	32	231	590	530	1.1	17	1900	1.60	<0.01	70	<10	1200
--	--	--	--	--	--	--	--	--	--	--	--	--
65	10	183	41	130	0.8	16	470	2.80	<0.01	8	<1	250
69	11	279	41	99	0.6	14	520	11.0	<0.01	5	<1	350
47	2.3	180	46	150	0.1	14	500	3.90	<0.01	6	<1	60
300	22	148	320	630	0.7	37	1700	0.96	0.01	40	<10	880
730	69	273	1100	2100	0.8	38	5100	1.70	0.03	60	20	2500
800	100	175	830	2400	1.1	39	5100	2.10	0.01	60	20	2100
480	27	219	830	1700	0.4	42	3900	1.90	0.02	60	20	1400
300	21	142	260	1200	0.5	35	2400	4.60	0.01	30	<10	6000
420	16	160	420	1500	0.4	36	3100	16.0	<0.01	50	10	1000
450	10	168	420	2000	0.3	31	3700	17.0	0.01	60	10	1200
730	69	273	1100	2100	0.8	38	5100	1.70	0.03	60	20	2500
PIUTE COUNTY												
--	--	--	--	--	--	--	--	--	--	--	--	--
21	5.2	201	19	14	0.3	36	290	0.10	0.02	4	2	70
SALT LAKE COUNTY												
160	4.1	207	2.6	150	1.9	32	490	<0.10	--	46	24	--
930	20	137	62	2100	1.2	46	3500	<0.10	--	490	140	--
--	--	--	--	--	--	--	--	--	--	--	--	--
280	26	237	220	330	0.6	57	1100	3.50	--	5	<1	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
92	9.7	208	120	140	0.6	28	620	1.90	--	5	<1	--
--	--	--	--	--	--	--	--	--	--	--	--	--
41	2.7	272	170	110	0.2	19	690	5.20	--	29	19	--
SAN JUAN COUNTY												
--	--	--	--	--	--	--	--	--	--	--	--	--
SANPETE COUNTY												
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
SEVIER COUNTY												
--	--	--	--	--	--	--	--	--	--	--	--	--
15	2.4	201	24	19	0.2	17	280	0.33	0.01	<3	1	40
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
TOOELE COUNTY												
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

GEOLOGICAL UNIT (AQUIFER)--Continued

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
 220JRSC - JURASSIC SYSTEM, JURASSIC AGE.
 220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.
 221ENRD - ENTRADA SANDSTONE OF SAN RAFAEL GROUP, JURASSIC AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)
TOOELE COUNTY--Continued											
403802112301201	(C- 2- 6)23CBB- 1	100VLFL	210	06-20-85	1180	8.4	21.5	--	--	--	--
403645112292101	(C- 2- 6)26DAC- 1	100VLFL	246	06-20-85	970	--	14.0	--	--	--	--
403532112253601	(C- 3- 5) 4BBB- 2	100VLFL	410	06-20-85	1280	7.5	16.5	--	--	--	--
403533112255701	(C- 3- 5) 5ABA- 1		412	06-21-85	830	--	13.5	--	--	--	--
UTAH COUNTY											
401730111594501	(C- 6- 1)18CDD- 1		265	07-02-85	705	7.4	30.0	290	89	70	27
401607112023401	(C- 6- 2)26CBB- 1	100VLFL	505	07-02-85	475	7.9	11.5	--	--	--	--
401610112053101	(C- 6- 2)29BDD- 1	100VLFL	150	07-03-85	405	7.7	10.0	220	40	55	19
400315111572001	(C- 9- 1) 4CCC- 1	100VLFL	--	08-16-85	1460	8.0	13.0	380	260	93	36
395956111572101	(C- 9- 1)28CCB- 1		802	07-03-85	2310	8.0	17.5	310	180	81	26
400015111583001	(C- 9- 1)29BCC- 1		800	07-02-85	740	--	15.5	--	--	--	--
395825111571801	(C-10- 1) 4CBB- 1	100VLFL	1218	07-03-85	1830	--	18.5	--	--	--	--
402332111522501	(D- 5- 1) 7DCD- 1	100VLFL	227	07-25-85	580	--	12.0	--	--	--	--
402103111461601	(D- 5- 2)30CCB- 2		225	07-25-85	780	7.7	11.0	--	--	--	--
401801111442501	(D- 6- 2)17ACA- 1		200	08-02-85	3000	7.6	13.0	260	46	66	23
401021111362701	(D- 7- 3)33BAA- 6	100VLFL	138	08-02-85	880	7.5	13.5	--	--	--	--
400212111471201	(D- 9- 1)14ADA- 2		363	08-09-85	780	--	12.0	--	--	--	--
400019111471001	(D- 9- 1)26ADD- 1	100VLFL	200	08-09-85	680	--	13.5	--	--	--	--
395513111522701	(D-10- 1)30BAC- 1		600	08-09-85	3800	--	22.0	--	--	--	--
WASHINGTON COUNTY											
371305113470401	(C-41-17)17CBA- 1		626	06-16-85	480	7.4	21.5	230	43	69	15
WAYNE COUNTY											
382717111365601	(D-27- 3)19AAA- 1		285	06-28-85	1560	7.2	12.0	930	760	280	57
381902111321101	(D-29- 3) 1CAB- 1	110ALVM	433	06-28-85	205	8.0	16.5	100	35	27	7.9
WEBER COUNTY											
411153112064602	(B- 5- 2) 6BDD- 3	100VLFL	609	08-29-85	370	--	14.5	--	--	--	--
411153112064601	(B- 5- 2) 6BDD- 4	100VLFL	303	08-29-85	470	--	16.0	--	--	--	--
412011112041401	(B- 7- 2)16DCD- 2	100VLFL	1176	08-29-85	340	--	26.0	--	--	--	--
411824112060101	(B- 7- 2)32BBB- 1		546	08-29-85	2520	7.8	18.0	380	250	82	43
411821112034601	(B- 7- 2)34BBB- 2	100VLFL	517	08-29-85	1750	--	18.0	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.
 112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

395

DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	ALKA- LINITY (CACO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED BORON (B) (UG/L)
--	--	--------------------------------------	--	---	--	--	--	---	--	--	--	--

TOOELE COUNTY--Continued

--	--	--	--	--	--	--	--	--	--	--	--	90
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

UTAH COUNTY

39	3.5	197	69	65	0.6	21	410	0.59	<0.01	7	<1	80
--	--	--	--	--	--	--	--	--	--	--	--	--
9.5	1.1	176	18	14	0.1	11	230	0.84	<0.01	13	<1	20
150	9.9	120	110	320	0.3	60	850	9.80	0.02	10	2	150
110	12	125	110	220	0.3	68	700	5.80	<0.01	10	<1	130

--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
16	5.3	214	49	14	0.2	21	320	1.50	--	5	5	60
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

WASHINGTON COUNTY

15	2.0	191	27	22	0.3	23	290	0.52	0.04	13	11	40
----	-----	-----	----	----	-----	----	-----	------	------	----	----	----

WAYNE COUNTY

30	4.8	172	780	15	<0.1	30	1300	2.00	0.03	<3	<1	80
9.4	3.0	65	26	5.5	0.2	45	160	0.26	<0.01	27	<1	40

WEBER COUNTY

--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
350	21	136	130	710	0.3	28	1400	0.10	0.06	410	330	320
--	--	--	--	--	--	--	--	--	--	--	--	--

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
 220JRSC - JURASSIC SYSTEM, JURASSIC AGE.
 220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.
 221ENRD - ENTRADA SANDSTONE OF SAN RAFAEL GROUP, JURASSIC AGE.

	Page		Page
Accuracy of field data and computed results	23	Collection and examination of:	
Access to WATSTORE data	24	ground-water data	24
Acre-foot, definition of	17	water quality data	24
American Fork above upper powerplant, near American Fork	282, 363	Colorado River basin, gaging-station records in	31
Aquifer, definition of	17	Colorado River near Cisco	40
Artesian, definition of	17	water quality records	41
Ash Creek above Toquerville	187, 352	near Colorado-Utah State line	31
Ashley Creek near Vernal	69, 342	Contents, definition of	17
Avintaquin Creek, West Fork, near Fruitland	84, 345	Control:	
		definition of	17
Bacteria, definition of	17	structure, definition of	17
Bear Lake at Lifton, near St. Charles, ID	225	Cooperation	1
outlet canal near Paris, ID	227	Cottonwood Creek (Bear River Basin) near Cleveland, ID	233, 357
Bear River above reservoir, near Woodruff	210, 355	Cottonwood Wash (tributary to San Juan River) near Blanding	171, 350
at Alexander, ID	232	Cottonwood Wash (tributary to Colorado River) at I-70, near Cisco	32
at Border, WY	218	water quality records	33
water quality records	219	Courthouse Wash near Moab	46, 342
at Evanston, WY	208	Cub River near Preston, ID	237, 358
at Harer, ID	222	Cubic foot per second, definition of	17
at Idaho-Utah State line	236, 357	Curran Creek (Jordan River Basin) near Mona	272, 361
at Pescadero, ID	228, 356	Curran Creek (tributary to Strawberry River) below Curran Creek Dam near Fruitland	82, 344 83, 345
at Soda Springs, ID	230		
below Pixley Dam, near Cokeville, WY	215, 356	Davis County, ground water levels in	372
below reservoir, near Woodruff	212, 355	quality of ground water	390
below Smiths Fork, near Cokeville, WY	217, 356	Definition of terms	17
below Stewart Dam, near Montpelier, ID	224	Desert Seep Wash near Wellington	123, 347
below Utah Power & Light Co.'s tailrace, at Oneida, ID	234	Dirty Devil River above Poison Spring Wash, near Hanksville	163, 349
East Fork, near Evanston, WY	202, 354	Dirty Devil River basin, gaging-station records in	149
near Collinston	248	Discharge:	
near Corinne	249	definition of	17
water quality records	250	instantaneous, definition of	17
near Preston, ID	235, 357	mean, definition of	17
near Randolph	214, 355	total, definition of	19
near Utah-Wyoming State line	205, 354	Discharge measurements at partial record stations and miscellaneous sites	339
West Fork, at Whitney Dam, near Oakley	203, 354	Dissolved:	
West Fork, below Deer Creek, near Evanston, WY	204, 354	definition of	17
Bear River basin, gaging-station records in	202	solids concentration, definition of	17
Bear River basin outflow across State Highway 83, near Corinne	256	Dolores River basin, gaging-station records in	35
Beaver County, ground water levels in	371	Dolores River near Cisco	35
Beaver Creek near Soldier Summit	120, 347	water quality records	36
Beaver River at Adamsville	330	Downstream order and station number	20
water quality records	331	Drainage:	
at Rocky Ford Dam, near Minersville	334, 369	area, definition of	17
near Beaver	329, 368	basin, definition of	17
Beaver River basin, gaging-station records in	329	Dry Fork at mouth, near Dry Fork	73, 343
Big Brush Creek above Red Fleet Reservoir, near Vernal	68, 342	North Fork of, near Dry Fork	71, 343
Biochemical oxygen demand, definition of	17	Duchesne River above Knight diversion, near Duchesne	80, 344
Bitter Creek near Bonanza	105, 346	at Myton	91, 346
Black Slough near Brigham City	255, 360	near Randlett	93
Blacks Fork, near Milburne, WY	53	water quality records	94
near Robertson, WY	52	near Tablona	75, 343
Blacksmith Fork above Utah Power & Light Co.'s dam, near Hyrum	245, 359	West Fork, near Hanna	74, 343
Bloomington Creek at Bloomington, ID	226, 356	Dunn Creek near Park Valley	300, 365
Box Elder County, ground water levels in	371		
quality of ground water	388	East Canyon Creek near Morgan	265, 361
Brownie Canyon Creek above sinks, near Dry Fork	72, 343	East Canyon Reservoir near Morgan	264
Bull Creek near Hanksville	152	Echo Reservoir at Echo	262
water quality records	153	Eightmile Creek near Soda Springs, ID	229, 357
Cache County, quality of ground water	388	Ephraim Tunnel near Ephraim	137, 347
Cedar City Valley, gaging-station records in	337	Epilimnion, definition of	17
Center Creek above Parowan Creek, near Parowan	335, 369	Escalante River basin, gaging-station records in	164
Chalk Creek at Coalville	261, 360	Escalante River near Escalante	165, 350
Chapman Canal at State line, near Evanston, WY	209, 355	Eutrophic, definition of	17
Chemical-oxygen demand, definition of	17	Explanation of:	
Chicken Creek near Levan	323, 368	ground-water level records	24
Clear Creek above diversions, near Sevier	313, 366	stage- and water-discharge records	22
Clover Creek above Big Hollow, near Clover	296, 364	water-quality records	24
Coal Creek near Cedar City	337, 369		
Collection and computation of data	22	Fairview Tunnel near Fairview	114, 346

	Page		Page
Fecal coliform bacteria, definition of	17	Lakes and Reservoirs continued:	
streptococcal bacteria, definition of	17	Great Salt Lake at State Park Saltair	
Ferron Creek below Paradise Ranch, near		Beach Boat Harbor	198
Clawson	141, 348	Great Salt Lake near Saline	200
(upper station) near Ferron	140, 348	Joes Valley Reservoir near Orangeville	139
Fish Creek above reservoir, near Scofield	116	Lost Creek Reservoir near Croydon	263
Flaming Gorge Reservoir at Flaming		Minersville Reservoir near Minersville	333
Gorge Dam	56	Moon Lake Reservoir near Mountain Home	88
Floy Wash near Green River	134	Otter Creek Reservoir near Antimony	308
water quality records	135	Plute Reservoir near Marysville	310
Fort Pierce Wash near St. George	190, 352	Powell, Lake, at Glen Canyon Dam, AZ	180
Freemont River near Bicknell	150, 349	Rockport Reservoir near Wanship	259
near Caineville	151, 349	Scofield Reservoir near Scofield	118
		Sevier Bridge Reservoir near Juab	321
Gage height, definition of	17	Woodruff Narrows Reservoir near	
Gaging station, definition of	18	Woodruff	211
Garfield County, quality of ground water	390	Land surface datum, definition of	18
George Creek near Yost	338, 369	LaVerkin Creek near LaVerkin	186, 352
Gooseberry Creek near Scofield	115, 346	Leeds Creek near Leeds	188, 352
Grand County, quality of ground water	390	Little Bear River below Davenport Creek,	
Great Basin, gaging station records in	198	near Avon	239, 358
Great Salt Lake at State Park Saltair		East Fork, above reservoir, near Avon	240, 358
Beach Boat Harbor	198	near Paradise	241, 358
water temperatures	199	Logan, Hyde Park, & Smithfield Canal at	
near Saline	200	head, near Logan	242, 359
water temperatures	201	Logan River above State dam, near Logan	243, 359
Southern Pacific Transportation Co	340	Lost Creek Reservoir near Croydon	263
Great Salt Lake basin, gaging-station			
records in	198	Mammoth Creek (head of Sevier River) above	
Great Salt Lake Desert, gaging-station		West Hatch Ditch, near Hatch	301, 365
records in	299	Manti Creek below Dugway Creek, near	
Green River at Green River	128	Manti	319, 367
water quality records	129	Measuring point, definition of	18
near Greendale	57	Meso-eutrophic, definition of	18
water quality records	58	Micrograms per liter, definition of	18
near Green River, WY	51	Mill Creek near Moab	47, 342
near Jensen	63	Millard County, ground water levels in	375
water quality records	64	quality of ground water	390
Green River basin, gaging-station		Milligrams per liter, definition of	18
records in	51	Minersville Reservoir near Minersville	333
Ground water	9	Minnie Maud Creek near Myton	113, 346
chemical analysis of water-levels	382	Miscellaneous temperature measurements	
levels	371	and field determinations	342
Hammond (East Side) Canal near Collinston	246	Montezuma Creek at Golf Course, at	
Hardness, definition of	18	Monticello	168, 350
Henrys Fork near Manila	55	Moon Lake Reservoir near Mountain Home	88
High Creek near Richmond	238, 358	Mosby Canal near LaPoint	70, 342
Hydrologic;		Mud Creek below Winter Quarters Canyon,	
Bench Mark Network, definition of	18	at Scofield	117
conditions, summary of	2	Muddy Creek at Delta Mine, near	
unit, definition of	18	Hanksville	160
Hypolimnion, definition of	18	water quality records	161
		below Interstate Highway I-70, near	
Indian Creek below Bogus Pocket, near		Emery	157
Monticello	48	water quality records	158
water quality records	49	near Emery	156, 349
Introduction	1		
Iron County, ground water levels in	373	National Geodetic Vertical Datum of 1929,	
quality of ground water	390	definition of	18
Joes Valley Reservoir near Orangeville	139	National Stream Quality Accounting Network,	
Jordan River at 500 North, at Salt Lake		definition of	18
City	294, 364	North Creek above Ranger station, near	
at narrows, near Lehi	283, 363	Monticello	167, 350
at Salt Lake City	287	near Virgin	184, 351
water quality records	288	North Willow Creek near Grantsville	298, 365
at 5800 South, near Salt Lake City	285, 364	Numbering system for wells and	
at 9000 South, near Midvale	284, 363	miscellaneous sites	20
Jordan River basin, gaging-station			
records in	272	Oak Creek (tributary to Sevier River)	
Juab County, ground water levels in	375	above Little Creek, near Oak City	327, 368
quality of ground water	390	below Big Spring, near Oak City	328, 368
Kanab Creek basin, gaging-station		Oak Creek (tributary to San Pitch River)	
records in	181	near Fairview	317, 367
Kanab Creek near Kanab	181, 351	near Spring City	318, 367
		Ogden River, South Fork (head of Ogden	
Lake Fork River above Moon Lake, near		River), near Huntsville	267, 361
Mountain Home	87, 345	Other data available	24
below Moon Lake, near Mountain Home	89, 345	Otter Creek Reservoir near Antimony	308
Lakes and Reservoirs:			
Bear Lake at Lifton, near		Parowan Valley, gaging-station records in	335
St. Charles, ID	225	Partial-record station, definition of	18
East Canyon Reservoir near Morgan	264	Particle-size, definition of	18
Echo Reservoir at Echo	262	classification, definition of	18
Flaming Gorge Reservoir at Flaming		Percent composition, definition of	18
Gorge Dam	56	Picocurie, definition of	18
		Pine Creek near Escalante	164, 349
		Plute County, quality of ground water	392
		Plute Reservoir near Marysville	310

	Page		Page
Pot Creek above diversions, near Vernal	62, 342	Smiths Fork (tributary to Bear River) near	
Powell, Lake, at Glen Canyon Dam, AZ	180	Border, WY	216, 356
Price River at Woodside	124	Snake River basin, gaging-station	
water quality records	125	records in	338
below Miller Creek, near Wellington	122, 347	Soda Creek at Fivemile Meadows, near	
Provo River at Provo	281, 363	Soda Springs, ID	231, 357
below Deer Creek Dam	280, 363	Sodium adsorption ratio, definition of	19
near Hallstone	279, 362	Solute, definition of	19
near Woodland	278, 362	South Willow Creek near Grantsville	297, 364
North Fork, near Kamas	277, 362	Sowers Creek near Duchesne	86, 345
Publications on techniques of water-		Spanish Fork at Castilla	275, 362
resources investigations	26	below Halls Falls near Spanish Fork	274, 362
Radiochemical Program, definition of	18	near Lakeshore	276, 362
Raft River basin, gaging-station		Special networks and programs	22
records in	338	Specific conductance, definition of	19
Rainbow Inlet canal near Dingle, ID	223	Spring City Tunnel near Spring City	138, 348
Recapture Creek below Johnson Creek,		Stage-discharge relation, definition of	19
near Blanding	170, 350	Stratification, definition of	19
near Blanding	169, 350	Strawberry River near Duchesne	85, 345
Records of discharge collected by agencies		near Soldier Springs	81, 344
other than the Geological Survey	24	Streamflow, definition of	19
Red Butte Creek at Fort Douglas, near		Sulphur Creek (tributary to Bear River)	
Salt Lake City	291	above reservoir, near Evanston, WY	206, 354
water quality records	292	below reservoir, near Evanston, WY	207, 355
Reservoirs: see Lakes and Reservoirs	398	Sulphur Creek (tributary to Great Salt	
Rock Creek near Hanna	77, 344	Lake) near Corinne	252, 359
near Mountain Home	78, 344	Summary of:	
near Talmage	79, 344	Hydrologic Conditions	2
South Fork, near Hanna	76, 343	Surface Water Studies	5
Rockport Reservoir near Wanship	259	Water Quality Studies	5
Rush Valley, gaging station records in	295	Summit Creek (Parowan Valley) near Summit	336, 369
Salina Creek at Salina	316, 367	Surface:	
near Emery	315, 367	area, definition of	19
Salt Creek (Bear River basin) below		water	2
Salt Spring, near Tremonton	254, 359	Surplus Canal at Salt Lake City	286, 364
Salt Lake County, ground water levels in	376	Suspended:	
quality of ground water	392	definition of	19
Salt Spring near Tremonton	253	total, definition of	19
San Juan county, ground water levels in	378	Thermograph, definition of	19
quality of ground water	392	Thomas Fork near Wyoming-Idaho State line	221, 356
San Juan River at Shiprock, NM	166	Tie Fork near Soldier Summit	273, 361
near Bluff	172	Tons per acre-foot, definition of	19
water quality records	173	per day, definition of	19
San Juan River basin, gaging-station		Tooele County, ground water levels in	378
records in	166	quality of ground water	392
Sanpete County, quality of ground water	392	Tooele Valley, gaging-station records in	297
San Rafael River at San Rafael Bridge		Total:	
Campground, near Castle Dale	143, 348	definition of	19
near Castle Dale	142, 348	load, definition of	20
near Green River	144	Trout Creek near Callao	299, 365
water quality records	145	Utah County, ground water levels in	379
Santa Clara-Pinto diversion near Pinto	192, 353	Utah County, ground water levels in	379
Santa Clara River at Gunlock	193, 353	quality of ground water	394
at St. George	195, 353	Vernon Creek near Vernon	295, 364
below Winsor Dam, near Santa Clara	194, 353	Virgin River at Littlefield, AZ	197
near Pine Valley	191, 353	at Virgin	185, 351
Scofield Reservoir near Scofield	118	East Fork, near Glendale	182, 351
Sediment	24	near Bloomington	196, 354
definition of	19	near Hurricane	189, 352
mean concentration, definition of	19	North Fork, near Springdale	183, 351
suspended, definition of	19	Virgin River basin, gaging-station	
suspended concentration, definition of	19	records in	182
suspended discharge, definition of	19	Washington County, ground water levels in	380
suspended load, definition of	19	quality of ground water	394
total discharge, definition of	19	Water:	
total load, definition of	19	analysis	24
Seven Mile Creek near Fish Lake	149, 348	quality	5
Sevier Bridge Reservoir near Juab	321	quality stations	33
Sevier County, quality of ground water	392	temperature	24
Sevier Lake basin, gaging-station		year, definition of	20
records in	301	Wayne County, quality of ground water	394
Sevier River above Clear Creek, near Sevier	312, 366	WDR, definition of	20
at Hatch	302, 365	Weber County, ground water levels in	380
below Plute Dam, near Marysville	311, 366	quality of ground water	394
below San Pitch River, near Gunnison	320, 368	Weber River at Gateway	266, 361
East Fork, near Kingston	309, 366	near Coalville	260, 360
East Fork, near Rubys Inn	307, 366	near Oakley	258, 360
near Circleville	305, 365	near Plain City	269
near Juab	322, 368	water quality records	270
near Kingston	306, 366	Weber River basin, gaging-station	
near Lynndyl	324	records in	257
water quality records	325	Weighted average, definition of	20
near Sigurd	314, 367	West Side Canal near Collinston	247
Smith and Morehouse Creek near Oakley	257, 360	Wheeler Creek near Huntsville	268, 361
Smiths Fork (tributary to Blacks Fork),			
East Fork of, near Robertson, WY	54		

	Page		Page
White River (tributary to Price River)		Whiterocks River near Whiterocks	92, 346
below Tabbyune Creek, near Soldier		Willow Creek near Castle Gate	121, 347
Summit	119, 347	Woodruff Creek below reservoir, near	
White River (tributary to Green River) at		Woodruff	213, 355
mouth, near Ouray	106	Woodruff Narrows Reservoir near Woodruff . .	211
water quality records	107	WSP, definition of	20
near Colorado-Utah State line	98		
water quality records	99	Yellowstone River near Altona	90, 346

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

USGS LIBRARY - RESTON



3 1818 00456102 1

NT 413

U.S. DEPARTMENT OF THE INTERIOR
Geological Survey
1016 Administration Building 1745 West, 1700 South
Salt Lake City, UT 84104



OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300
SPECIAL 4TH CLASS BOOK RATE