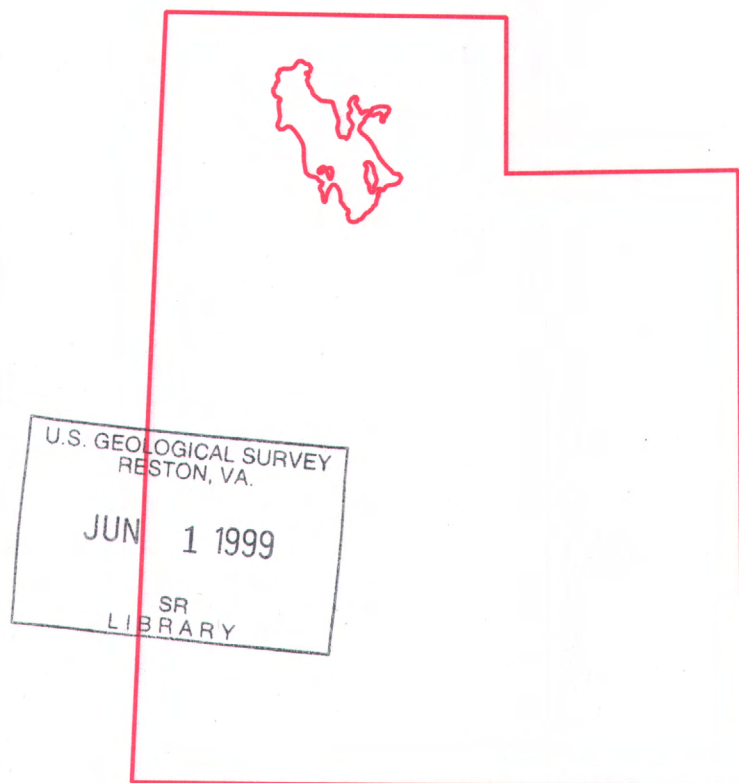


Water Resources Data Utah Water Year 1997



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-97-1
Prepared in cooperation with the State of Utah
and with other agencies



CALENDAR FOR WATER YEAR 1997

1996

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

1997

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

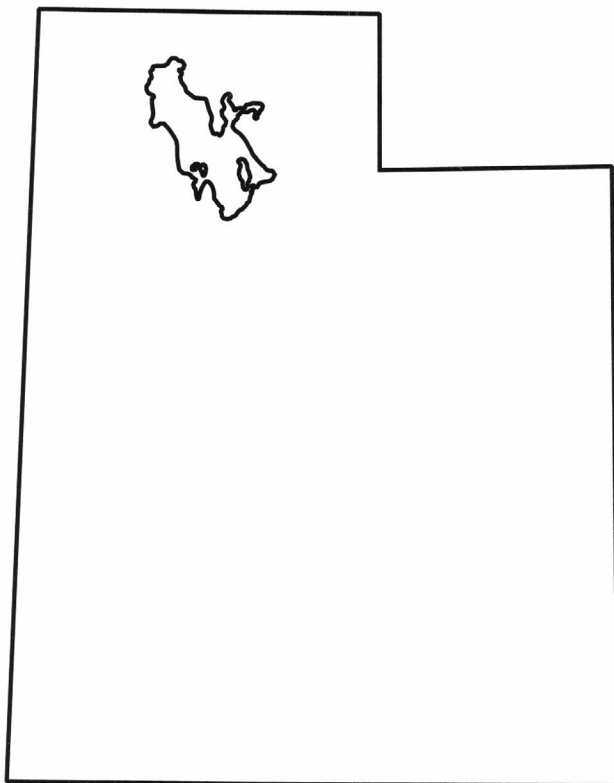
APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5					1	2	3	1	2	3	4	5	6	7
6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28
27	28	29	30	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

[illegible]



Water Resources Data Utah Water Year 1997

by L.R. Herbert, J.R. Tibbetts, D.E. Wilberg,
and D.V. Allen



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-97-1
Prepared in cooperation with the State of Utah
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

GEOLOGICAL SURVEY

Thomas J. Casadevall, Acting Director

For information on the water program in Utah, write to:

District Chief, Water Resources Division
U.S. Geological Survey
1016 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

1998

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 Nations 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:

Donald M. Batty	Robert Eacret	Julane Mulder
Deborah Bilbao	Joseph F. Gardner	Brad A. Slauch
Susan Brockner	Steve Gerner	Cynthia Smith
Carole B. Burden	Pam Hamburg	James Sory
Dixie Canny	Michael Hawkins	Robert Swenson
Howard K. Christiansen	James Howells	James R. Tibbetts
Mark Danner	Kevin Johnson	Chuck E. Turner
Stefanie L. Dragos	Rolaine King	Francis Woehl
Paul Downhour	Brian Loving	

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

REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.				
1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE June 1998		3. REPORT TYPE AND DATES COVERED ANNUAL - October 1996 to September 1997
4. TITLE AND SUBTITLE Water-Resources Data for Utah, Water Year 1997			5. FUNDING NUMBERS	
6. AUTHOR(S) L.R. Herbert, J.R. Tibbetts, D.E. Wilberg, and D.V. Allen				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) U.S. Geological Survey, Water Resources Division 1016 Administration Building 1745 West 1700 South Salt Lake City, Utah 84104			8. PERFORMING ORGANIZATION REPORT NUMBER USGS-WDR-UT-97-1	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) U.S. Geological Survey, Water Resources Division 1016 Administration Building 1745 West 1700 South Salt Lake City, Utah 84104			10. SPONSORING / MONITORING AGENCY REPORT NUMBER USGS-WDR-UT-97-1	
11. SUPPLEMENTARY NOTES Prepared in cooperation with the State of Utah and other agencies.				
12a. DISTRIBUTION / AVAILABILITY STATEMENT No restriction on distribution. This report may be purchased from: National Technical Information Service Springfield, VA 22161			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) Water resources data for the 1997 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 159 gaging stations; stage and contents for 18 lakes and reservoirs; water quality for 12 hydrologic stations, and 185 wells; and water levels for 49 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.				
14. SUBJECT TERMS *Utah, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analysis, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses			15. NUMBER OF PAGES 328	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT UNCLASSIFIED		18. SECURITY CLASSIFICATION OF THIS PAGE UNCLASSIFIED		19. SECURITY CLASSIFICATION OF ABSTRACT UNCLASSIFIED
20. LIMITATION OF ABSTRACT				

CONTENTS

V

	Page
Preface	III
List of surface water stations, in downstream order, for which records are published in this volume	VI
List of ground-water wells, by county, for which records are published in this volume	X
List of discontinued surface-water discharge or stage-only stations.	XII
List of discontinued surface-water-quality stations	XXX
Introduction	1
Cooperation	1
Summary of Hydrologic Conditions	2
References	7
Definition of terms	13
Downstream order and station number	16
Numbering system for wells and miscellaneous sites.	16
Special networks and programs	17
Explanation of stage- and water-discharge records	19
Collection and computation of data	19
Data Presentation	20
Station manuscript	20
Data table of daily mean values	21
Statistics of monthly mean data	21
Summary statistics	21
Accuracy of field data and computed results	22
Other data available	23
Explanation of water-quality records	23
Collection and examination of data	23
Water analysis.	23
Remarks codes	24
Water-quality control data	24
Explanation of ground-water level records	26
Collection of the data	26
Access to WATSTORE data	26
Publications on techniques of water-resources investigations	27
Gaging-station records.	34
Ground-water records:	
Ground-water level records	256
Hydrologic data at Union Pacific Causeway	275
Quality of ground-water records	276
Index	285

ILLUSTRATIONS

Figure 1. Map showing selected precipitation-recording sites and U.S.G.S. surface-water gaging stations.	3
2-3. Graphs showing:	
2. Comparison of monthly and annual mean discharge for water year 1997 with maximum, 75th percentile, median, 25th percentile, and minimum monthly and annual discharge for water years 1944-97 at seven long-term, representative streamflow gaging stations in Utah and Wyoming	5
3. Fluctuations in elevation of Great Salt Lake, 1845-97.	8
4. Map showing areas of ground-water development and location of selected observation wells	9
5. Graphs showing fluctuations of water levels in selected wells in Utah for 1987-97.	10
6. Map showing location of three National Stream-Quality Accounting Network (NASQAN) and other surface-water sites at which water-quality data were collected in water year 1997	12
7-8. Diagrams showing:	
7. System for numbering wells and miscellaneous sites (latitude and longitude)	17
8. System for numbering wells (township and range).	18
9-10. Maps showing:	
9. Location of U.S.G.S gaging stations in Utah	31
10. Locations of observation wells in Utah where data were obtained on ground-water levels	255

TABLE

Table 1. Precipitation and departure from normal precipitation at selected sites for water year 1997	2
--	---

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

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

	Station Number	Page
COLORADO RIVER BASIN		
Colorado River near Colorado-Utah State line (d)	09163500	34
TRIBUTARIES BETWEEN UTAH-COLORADO STATE LINE AND DOLORES RIVER		
DOLORES RIVER BASIN		
Dolores River near Cisco (d,c,t)	09180000	35
Colorado River near Cisco (d,c,b,t,s)	09180500	38
TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER		
Castle Creek below Castleton, near Moab (d)	09182200	47
Castle Creek below Castle Valley, near Moab (d)	09182400	48
Mill Creek at Sheley Tunnel, near Moab (d)	09183500	49
GREEN RIVER BASIN		
Green River near Green River, WY (d)	09217000	50
Blacks Fork near Robertson, WY (d)	09217900	51
Blacks Fork near Millburne, WY (d)	09218500	52
East Fork of Smith's Fork near Robertson, WY (d)	09220000	53
Green River near Greendale (d,c,t)	09234500	54
Green River near Jensen (d,c,t)	09261000	60
Big Brush Creek above Red Fleet Reservoir, near Vernal (d)	09261700	62
Ashley Creek near Vernal (d)	09266500	63
Mosby Canal near LaPoint (d)	09267500	64
Ashley Creek below Union Canal Diversion near Jensen (d,c)	09271550	65
Duchesne River:		
West Fork Duchesne River above North Fork, near Hanna (d)	09276600	67
Duchesne River near Tabiona (d)	09277500	68
Rock Creek near Mountain Home (d)	09279000	69
Duchesne River above Knight diversion, near Duchesne (d)	09279150	70
Strawberry River:		
Red Creek:		
Red Creek above reservoir, near Fruitland (d)	09286100	71
Currant Creek near Fruitland (d)	09288000	72
Strawberry River near Duchesne (d)	09288180	73
Lake Fork River above Moon Lake, near Mountain Home (d)	09289500	74
Moon Lake Reservoir near Mountain Home (e)	09290500	75
Lake Fork River below Moon Lake, near Mountain Home (d)	09291000	76
Yellowstone River at Bridge Campground near Altonah	09292000	77
Yellowstone River near Altonah (d)	09292500	78
Duchesne River at Myton (d)	09295000	79
Uinta River below powerplant diversion, near Neola (d)	09296800	80
Whiterocks River near Whiterocks (d)	09299500	81
Duchesne River near Randlett (d,c,t)	09302000	82
White River near Watson (d,c)	09306500	86
Fish Creek (head of Price River):		
Gooseberry Creek:		
Fairview Tunnel near Fairview (d)	09309600	88
Gooseberry Creek near Scofield (d)	09310000	89
Fish Creek above reservoir, near Scofield (d)	09310500	90
Mud Creek below Winter Quarters Canyon, at Scofield (d)	09310700	91
Scofield Reservoir near Scofield (e)	09311000	92
White River below Tabbayne Creek, near Soldier Summit (d)	09312600	93
Price River near Heiner (d)	09313000	94
Price River at Woodside (c)	09314500	95
Green River at Green River (d,c,t,s)	09315000	96
Electric Lake near Scofield (e)	09317800	105
Huntington Creek (head of San Rafael River):		
Huntington Creek near Huntington (d)	09317997	106
Cottonwood Creek:		
Ephraim Tunnel near Ephraim (d)	09319000	107
Spring City Tunnel near Spring City (d)	09323000	108
Joes Valley Reservoir near Orangeville (e)	09323900	109

	Station Number	Page
COLORADO RIVER BASIN--Continued		
GREEN RIVER BASIN--Continued		
Huntington Creek (head of San Rafael River)--Continued		
Ferron Creek (upper station) near Ferron (d)	09326500	110
San Rafael River near Green River (d,c)	09328500	111
DIRTY DEVIL RIVER BASIN		
Fremont River (head of Dirty Devil River):		
Seven Mile Creek near Fish Lake (d)	09329050	114
Fremont River near Bicknell (d)	09330000	115
Fremont River near Caineville (d)	09330230	116
Muddy Creek near Emery (d)	09330500	117
ESCALANTE RIVER BASIN		
North Creek (head of Escalante River)		
Pine Creek near Escalante (d)	09337000	118
Escalante River near Escalante (d)	09337500	119
SAN JUAN RIVER BASIN		
Montezuma Creek:		
South Creek above Reservoir near Monticello (d)	09378170	120
Recapture Creek near Blanding (d)	09378630	121
San Juan River near Bluff (d,c,t,s)	09379500	122
KANAB CREEK BASIN		
Kanab Creek near Kanab (d)	09403600	133
Johnson Wash above Flood Canyon, near Kanab (d)	09403690	134
VIRGIN RIVER BASIN		
Virgin River:		
East Fork Virgin River near Glendale (d)	09404450	135
East Fork Virgin River near Mount Carmel Junction (d)	09404700	136
East Fork Virgin River near Springdale (d)	09404900	137
North Fork Virgin River near Springdale (d)	09405500	138
Virgin River at Virgin (d)	09406000	139
Leap Creek above Maple Hollow, near Pintura (d)	09406640	140
Wet Sandy Creek near Pintura (d)	09406900	141
Quail Creek:		
Leeds Creek near Leeds (d)	09408000	142
Virgin River near Hurricane (d)	09408150	143
St. George-Washington Canal near Washington (d,t)	09408175	144
Santa Clara River near Pine Valley (d)	09408400	149
Santa Clara River above Baker Reservoir, near Central (d)	09409100	150
Santa Clara River at Gunlock (d)	09409880	151
Santa Clara River below Winsor Dam, near Santa Clara (d)	09410100	152
Santa Clara River at St. George (d)	09413000	153
Virgin River near Bloomington (d)	09413200	154
Virgin River near St. George (d)	09413500	155
Beaver Dam Wash near Enterprise (d)	09413900	156
Beaver Dam Wash at Beaver Dam, AZ (d)	09414900	157
THE GREAT BASIN		
GREAT SALT LAKE BASIN		
Great Salt Lake at State Park Saltair Beach Boat Harbor (e,t)	10010000	158
Great Salt Lake at Promontory Point (e,t)	10010050	159
Great Salt Lake near Saline (e,t)	10010100	160
BEAR RIVER BASIN		
Bear River:		
Bear River near Utah-Wyoming State line (d)	10011500	161
Sulphur Creek above reservoir, below LaChapelle Creek, near Evanston, WY (d)	10015700	162
Bear River at Evanston, WY (d)	10016900	163
Bear River above reservoir, near Woodruff (d)	10020100	164
Bear River below reservoir, near Woodruff (d)	10020300	165
Big Creek near Randolph (d)	10023000	166
Bear River below Pixley Dam, near Cokeville, WY (d)	10028500	167
Smiths Fork near Border, WY (d)	10032000	168

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

	Station Number	Page
THE GREAT BASIN--Continued		
GREAT SALT LAKE BASIN--Continued		
BEAR RIVER BASIN--Continued		
Bear River--Continued		
Bear River below Smiths Fork, near Cokeville, WY (d)	10038000	169
Bear River at Border, WY (d)	10039500	170
Rainbow inlet canal near Dingle, ID (d)	10046000	171
Bear Lake at Lifton, near St. Charles, ID (e)	10055500	172
Bear Lake outlet canal:		
Bear Lake outlet canal near Paris, ID (d)	10059500	173
Bear River at Pescadero, ID (d)	10068500	174
Bear River at Soda Springs, ID (d)	10075000	175
Soda Point Reservoir at Alexander, ID (e)	10079000	176
Bear River at Alexander, ID (d)	10079500	177
Bear River below Grace Dam, near Grace, ID (d)	10080000	178
Oneida Narrows Reservoir, at Oneida, ID (e)	10086000	179
Bear River below Utah Power & Light Co.'s tailrace, at Oneida, ID (d)	10086500	180
Bear River at Idaho-Utah State line (d)	10092700	181
Little Bear River at Paradise (d)	10105900	182
Logan River:		
Logan, Hyde Park & Smithfield Canal at head, near Logan (d)	10108400	183
Logan River above State dam, near Logan (d)	10109000	184
Combined discharge of Logan River above State dam and Logan, Hyde Park, & Smithfield Canal at head, near Logan (d)	10109001	185
Cutler Reservoir near Collinston (e)	10116500	186
Hammond (East Side) Canal near Collinston (d)	10117000	187
West Side Canal near Collinston (d)	10117500	188
Bear River near Collinston (d)	10118000	189
Bear River near Corinne (d)	10126000	190
WEBER RIVER BASIN		
Weber River:		
Weber River near Oakley (d)	10128500	191
Rockport Reservoir near Wanship (e)	10129400	192
Weber River near Wanship (d)	10129500	193
Weber River near Coalville (d)	10130500	194
Chalk Creek at Coalville (d)	10131000	195
Echo Reservoir at Echo (e)	10131500	196
Weber River at Echo (d)	10132000	197
Lost Creek:		
Lost Creek Reservoir near Croydon (e)	10132490	198
East Canyon Creek:		
East Canyon Reservoir near Morgan (e)	10134000	199
East Canyon Creek near Morgan (d)	10134500	200
Weber River at Gateway (d)	10136500	201
Ogden River:		
South Fork Ogden River near Huntsville (d)	10137500	202
Pineview Reservoir near Ogden (e)	10139000	203
Ogden River below Pineview Reservoir near Huntsville (d)	10140100	204
Weber River near Plain City (d)	10141000	205
JORDAN RIVER BASIN		
Salt Creek below Nephi Powerplant diversion, near Nephi (d)	10145400	206
Salt Creek at Nephi (d,s)	10146000	207
Utah Lake (head of Jordan River):		
Currant Creek near Mona (d)	10146400	210
Soldier Creek (head of Spanish Fork):		
Diamond Fork below Red Hollow, near Thistle (d)	10149500	211
Spanish Fork at Castilla (d)	10150500	212

	Station Number	Page
THE GREAT BASIN--Continued		
GREAT SALT LAKE BASIN--Continued		
JORDAN RIVER BASIN--Continued		
Provo River:		
Provo River near Woodland (d)	10154200	213
Weber-Provo Diversion Canal near Woodland (d)	10154500	214
Provo River near Hailstone (d)	10155000	215
Provo River near Midway (d)	10155300	216
Spring Creek near Heber (d)	10155400	217
Provo River near Charleston (d)	10155500	218
Snake Creek near Charleston (d)	10156000	219
Daniels Creek above diversions near Heber City (d)	10157000	220
Daniels Creek at Charleston (d)	10157500	221
Provo River below Deer Creek Dam (d)	10159500	222
Provo River at Provo (d)	10163000	223
American Fork above upper powerplant, near American Fork (d)	10164500	224
West Canyon Creek near Cedar Fort (d)	10166430	225
Tailrace at Stairs plant, near Salt Lake City (d)	10168300	226
Surplus Canal at Salt Lake City (d)	10170500	227
Jordan River at Salt Lake City (d)	10171000	228
Combined discharge of Jordan River and Surplus Canal (d)	10170490	229
Red Butte Creek at Fort Douglas, near Salt Lake City (d)	10172200	230
RUSH VALLEY		
Vernon Creek near Vernon (d)	10172700	231
TOOELE VALLEY		
Faust Creek near Vernon (d)	10172727	232
Clover Creek above Big Hollow, near Clover (d)	10172765	233
Settlement Creek above Reservoir near Tooele (d)	10172791	234
South Willow Creek near Grantsville (d)	10172800	235
TRIBUTARIES BETWEEN GREAT SALT LAKE DESERT AND BEAR RIVER		
Dunn Creek near Park Valley (d)	10172952	236
SEVIER LAKE BASIN		
Mammoth Creek (head of Sevier River) above West Hatch ditch, near Hatch (d)	10173450	237
Sevier River at Hatch (d)	10174500	238
Sevier River near Kingston (d)	10183500	239
East Fork Sevier River near Kingston (d)	10189000	240
Sevier River below Piute Dam, near Marysvale (d)	10191500	241
Clear Creek above diversions, near Sevier (d)	10194200	242
Sevier River near Sigurd (d)	10205000	243
Salina Creek near Emery (d)	10205030	244
San Pitch River:		
Manti Creek below Dugway Creek, near Manti (d)	10215900	245
Sevier River below San Pitch River, near Gunnison (d)	10217000	246
Sevier River near Juab (d)	10219000	247
Sevier River near Lynndyl (d)	10224000	248
Oak Creek above Little Creek, near Oak City (d)	10224100	249
BEAVER RIVER BASIN		
Beaver River near Beaver (d)	10234500	250
Beaver River at Adamsville (d)	10237000	251
Beaver River at Rocky Ford Dam, near Minersville (d)	10239000	252
CEDAR CITY VALLEY		
Coal Creek near Cedar City (d)	10242000	253
Discharge measurements made at miscellaneous sites during water year 1997		254

GROUND WATER LEVELS

	Page
BEAVER COUNTY	
Well 382020112585901 Local number (C-28-10)28cdd-1	256
BOX ELDER COUNTY	
Well 414236112101201 Local number (B-11-3)10abb-4	256
Well 414411112543701 Local number (B-12-9)30cda-1	256
Well 415703112514501 Local number (B-14-9)9add-1	257
IRON COUNTY	
Well 375241112471001 Local number (C-34-8)5bca-1	257
Well 374252113391801 Local number (C-35-16)33bcc-1	257
Well 373735113393801 Local number (C-36-16)29daa-1	258
JUAB COUNTY	
Well 393143111523301 Local number (C-15-1)12aba-1	258
KANE COUNTY	
Well 370915112341301 Local number (C-42-6)18cca-1	258
Well 370650112331002 Local number (C-42-6)32cba-2	259
MILLARD COUNTY	
Well 393046112231301 Local number (C-15-5)15dad-1	259
Well 393020112362201 Local number (C-15-7)23bac-1	259
Well 385844112245801 Local number (C-21-5)21aba-1	260
Well 384906112330601 Local number (C-23-6)17baa-1	260
SALT LAKE COUNTY	
Well 403916111575901 Local number (C-2-1)9ccc-1	260
SAN JUAN COUNTY	
Well 375243109191301 Local number (D-33-24)30dab-1	261
Well 373830109283201 Local number (D-36-22)22daa-1	261
TOOELE COUNTY	
Well 401312112442301 Local number (C-7-8)10cbd-1	261
UINTAH COUNTY	
Well 403158109372201 Local number (D-3-20)25abc-2	262
UTAH COUNTY	
Well 401818112014501 Local number (C-6-2)14aba-1	262
Well 402333111513401 Local number (D-5-1)8dcc-1	262
WASATCH COUNTY	
Well 403146111272701 Local number (D-3-4)26dba-1	263
Well 403403111253501 Local number (D-3-5)7cdb-1	263
Well 403325111254601 Local number (D-3-5)18cba-1	263
Well 403305111251901 Local number (D-3-5)18dcc-1	264
Well 403243111252701 Local number (D-3-5)19bdd-2	264
Well 403127111240301 Local number (D-3-5)29cac-1	264
Well 403149111255601 Local number (D-3-5)30bcc-1	265
Well 403004111280301 Local number (D-4-4)2bcd-1	265
Well 402937111283501 Local number (D-4-4)3dcd-1	265
Well 402902111282001 Local number (D-4-4)10daa-1	266
Well 402842111263101 Local number (D-4-4)12dcc-1	266
Well 402809111281601 Local number (D-4-4)15daa-1	266
Well 402753111282001 Local number (D-4-4)15ddd-3	267
Well 402742111281501 Local number (D-4-4)23bbb-2	267
Well 402937111214901 Local number (D-4-5)3dcc-1	267
Well 402946111233901 Local number (D-4-5)4ccb-1	268
Well 402842111223601 Local number (D-4-5)4ddd-1	268
Well 403022111240801 Local number (D-4-5)5abb-1	268
Well 403003111255801 Local number (D-4-5)6bcc-2	269
Well 402856111252701 Local number (D-4-5)7cad-1	269
Well 402857111245601 Local number (D-4-5)7dad-1	269
Well 402904111225801 Local number (D-4-5)9dbb-1	270
Well 402834111202601 Local number (D-4-5)14aac-1	270
Well 402840111213801 Local number (D-4-5)15aab-1	270

GROUND WATER LEVELS--Continued

	Page
WASATCH COUNTY—Continued	
Well 402839111221101 Local number (D-4-5)15bab-1	271
Well 402840111232201 Local number (D-4-5)16bab-1	271
Well 402750111232701 Local number (D-4-5)16ccd-1	271
Well 402810111241601 Local number (D-4-5)17caa-1	272
Well 402816111253001 Local number (D-4-5)18bdd-1	272
WASHINGTON COUNTY	
Well 372708113164201 Local number (C-38-13)35abb-1	272
Well 371045113332301 Local nubmer (C-41-5)32acd-1	273
Well 3706401132232-1 Local number (C-42-14)25abb-1	273
WEBER COUNTY	
Well 411544111461001 Local number (A-6-2)18bad-1	274
Well 411348112013601 Local number (B-6-2)26ada-1	274
Hydrologic data at Union Pacific Railroad Causeway, Great Salt Lake Basin	275

QUALITY OF GROUND WATER

Beaver County wells	276
Box Elder County wells	276
Cache County wells	276
Davis County wells	276
Duchesne County wells	276
Iron County wells	276
Juab County wells	278
Kane County wells	278
Millard County wells	278
Piute County wells	278
Salt Lake County wells	280
San Juan County wells	280
Sanpete County wells	280
Sevier County wells	280
Tooele County wells	280
Utah County wells	280
Washington County wells	280
Wayne County wells	282
Weber County wells	282
Quality of water in selected wells in Duchesne County	284

XII WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

The following continuous-record surface-water gaging stations in Utah and parts of surrounding states have been discontinued. Daily streamflow (d) and reservoir elevation (e) records were collected and published for the period of record, expressed in water years. Discontinued project stations with less than 2 years of data have not been included. Stations shown in bold were discontinued at end of previous water year. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

Station name	Station number	Drainage area (sq mi)	Period of record
COLORADO RIVER BASIN			
Cottonwood Wash at I-70 near Cisco, Ut (d)	09163675	170	1983-86
Twomile Creek near LaSal, Ut (d)	09169000	269	1944-51
Taylor Creek near Gateway, Co (d)	09177500	12	1944-67
Deep Creek near Paradox, Co (d)	09178000	—	1944-53
TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER			
Geyser Creek near Paradox, Co (d)	09178500	—	1944-51
Onion Creek above Onion Creek Bridge near Moab, Ut (d)	09180920	—	1979-81
Onion Creek below Onion Creek Bridge near Moab, Ut (d)	09180970	—	1979-81
Onion Creek near Moab, Ut (d)	09181000	18.8	1950-55
Professor (Rock) Creek near Moab, Ut (d)	09181500	33.6	1950-53
Castle Creek above diversions, near Moab, Ut (d)	09182000	7.58	1951-55 1958-75
Castle Creek near Moab, Ut (d)	09182500	53.1	1950-55 1957-58
Courthouse Wash at Arches Hwy Crossing near Moab, Ut (d)	09182900	143	1959-66
Courthouse Wash near Moab, Ut (d)	09183000	162	1950-55 1957 1966-89
Mill Creek near Moab, Ut (d)	09184000	74.9	1949-71 1972-93
Pack Creek at M4 Ranch, near Moab, Ut (d)	09184500	15.8	1955-59
Pack Creek near Moab, Ut (d)	09185000	57.4	1955-59
Hatch Wash near LaSal, Ut (d)	09185500	378	1951-71
Indian Creek Tunnel near Monticello, Ut (d)	09185800	—	1958-80
Indian Creek near Monticello, Ut (d)	09186000	4.70	1950-57
Indian Creek above Cottonwood Creek near Monticello, Ut (d)	09186500	31.2	1949-71 1988-91
Cottonwood Creek near Monticello, Ut (d)	09187000	115	1950-57
Indian Creek above Harts Draw near Monticello, Ut (d)	09187500	258	1949-57
Indian Creek below Bogus Pocket near Monticello, Ut (d)	09187550	262	1983-88
GREEN RIVER BASIN			
Blacks Fork above Blacks Fork Ranger Station, Ut (d)	09217500	48.8	1937-39
Blacks Fork (at Ranger St) near Robertson, Wy (d)	09217900	126	1937-39 1966-86
Blacks Fork at Blacks Fork Ranger Station, Ut (d)	09218000	a130	1937-39
Green River near Linwood, Ut (d)	09225500	a14,300	1928-63
Middle Fork Beaver Creek near Lonetree, Wy (d)	09226500	a28	1948-70
East Fork Beaver Creek near Lonetree, Wy (d)	09227000	a8.2	1949-62
West Fork Beaver Creek near Lonetree, Wy (d)	09227500	a23	1949-62
Burnt Fork near Burntfork, Wy (d)	09228500	52.8	1943-83
Henrys Fork near Manila (d)	09229500	520	1928-93
Green River at Flaming Gorge near Linwood, Ut (d)	09230500	a14,900	1923-38
Sheep Creek Upper Canal near Manila, Ut (d)	09231000	—	1950-61
Carter Creek Canal near Manila, Ut (d)	09231200	—	1956-61
Sheep Creek Lower Canal near Manila, Ut (d)	09231500	—	1950-61
Sheep Creek near Manila, Ut (d)	09232000	a42	1943-61
Sheep Creek at mouth near Manila, Ut (d)	09232500	111	1947-61
Carter Creek near Manila, Ut (d)	09233000	a19	1949-54
Red Lake Outlet near Manila, Ut (d)	09233500	a19	1946-49
Carter Creek at mouth near Manila, Ut (d)	09234000	a110	1946-55

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

XIII

Station name	Station number	Drainage area (sq mi)	Period of record
GREEN RIVER BASIN--Continued			
Red Creek near Dutch John, Ut (d)	09234700	140	1971-76
Green River at (near) Bridgeport, Ut (d)	09235000	a15,700	1912-15
Crouse Creek near Vernal, Ut (d)	09235100	30.2	1986-90
Pot Creek above diversions, near Vernal (d)	09235600	24.6	1957-93
Pot Creek near Vernal, Ut (d)	09235800	107	1958-82
Jones Hole Creek near Jensen, Ut (d)	09260500	a120	1950-56 1960-61
ASHLEY CREEK BASIN			
Brush Creek above cave near Vernal, Ut (d)	09261500	a23	1946-55
Big Brush Creek near Vernal, Ut (d)	09262000	79.6	1940-79
Little Brush Creek below East Pk Res near Vernal, Ut (d)	09262500	a20	1949-55
Little Brush Creek near Vernal, Ut (d)	09263000	a28	1946-52
Brush Creek near Jensen, Ut (d)	09263500	255	1940-65
Ashley Creek below Trout Creek near Vernal, Ut (d)	09264000	a27	1944-54
South Fork Ashley Creek near Vernal, Ut (d)	09264500	a20	1944-55
Oaks Park Canal near Vernal, Ut (d)	09265000	—	1946-69
Ashley Creek above Red Pine Creek near Vernal, Ut (d)	09265300	55.8	1965-75
Ashley Creek above Spring near Vernal, Ut (d)	09265500	a100	1941-45
Ashley Creek Spring near Vernal, Ut (d)	09266000	—	1944-45 1954-55
U.P.&L. Co.'s Tailrace near Vernal, Ut (d)	09267000	—	1917 1920-31
Ashley Creek above Dry Fork, near Vernal, Ut (d)	09267100	110	1969-72
Dry Fork above sinks, near Dry Fork, Ut (d)	09268000	44.4	1940-75
North Fork of Dry Fork near Dry Fork, Ut (d)	09268500	8.62	1947-89
Brownie Canyon above sinks, near Dry Fork, Ut (d)	09268900	8.24	1961-89
East Fork of Dry Fork near Dry Fork, Ut (d)	09269000	a12	1947-63
East Fork of Dry Fork at mouth near Dry Fork, Ut (d)	09269500	a18	1950-52
Dry Fork below springs near Dry Fork, Ut (d)	09270000	97.4	1904 1941-45 1954-69
Dry Fork at mouth near Dry Fork, Ut (d)	09270500	116	1954-89
Ashley Creek at Sign of the Maine, near Vernal, Ut (d)	09271000	241	1900-04 1939-65
Highline Canal below Mantle Gulch near Jensen, Ut (d)	09271070	—	1969-72
Steinaker Reservoir near Vernal, Ut (e)	09271300	—	1962-68
River Irrigation Company Canal near Jensen, Ut (d)	09271470	—	1969-72
Ashley Creek near Jensen, Ut (d)	09271500	383	1947-83
Stewart Lake Outflow near Jensen, UT	09271600	—	
TRIBUTARIES BETWEEN ASHLEY CREEK AND DUCHESNE RIVER			
Halfway Hollow Tributary near LaPoint, Ut (d)	09271800	a5.6	1960-74
DUCHESNE RIVER BASIN			
Duchesne Tunnel near Kamas, Ut (d)	09272500	--	1954-69
Duchesne River at Provo River Trail near Hanna, Ut (d)	09273000	a39	1930-33 1935-54
Duchesne River below Little Deer Creek, near Hanna, Ut (d)	09273200	a39	1965-68
Hades Creek near Hanna, Ut (d)	09273500	a75	1950-68
Duchesne River (North Fork) near Hanna, Ut (d)	09274000	a78	1922-23 1929-30 1946-63
West Fork Duchesne River below Vat Diversion near Hanna, Ut (d)	09274900	37.0	1989-94
West Fork Duchesne River below Dry Hollow near Hanna, Ut (d)	09275000	43.8	1950-68 1974-81
West Fork Duchesne River near Hanna, Ut (d)	09275500	61.6	1945-94

XIV WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
DUCHESNE RIVER BASIN--Continued			
Wolf Creek above Rhoades Canyon near Hanna, Ut (d)	09276000	10.6	1946-84
Wolf Creek near Hanna, Ut (d)	09276500	a19	1922-23
Duchesne River at Hanna, Ut (d)	09277000	a230	1953-61
Comb. flow Duchesne River & Duchesne Tunnel near Tabiona, Ut (d)	09277501	—	1919-67
Rock Creek above South Fork, near Hanna, Ut (d)	09277800	98.9	1965-84
			1988-94
South Fork Rock Creek near Hanna, Ut (d)	09278000	15.7	1953-92
Rock Creek near Hanna, Ut (d)	09278500	122	1950-69
			1974-88
Rock Creek below Miners Gulch near Hanna, Ut (d)	09278700	133	1974-81
Rock Creek near Talmage, Ut (d)	09279100	238	1963-94
Duchesne River at Duchesne, Ut (d)	09279500	a660	1918-70
Strawberry River and Willow Creek Ditches near Heber, Ut (d)	09280000	—	1950-60
Hobble Creek at Daniels Summit near Wallsburg, Ut (d)	09280400	2.89	1964-84
Upper Hobble Creek Ditch near Heber, Ut (d)	09280500	—	1950-52
Lower Hobble Creek Ditch near Heber, Ut (d)	09281000	—	1950-52
Hobble Creek Ditch (Upper & Lower) near Heber, Ut (d)	09281500	—	1949-60
Strawberry Tunnel at West Portal near Thistle, Ut (d)	09282000	—	1915-25
			1932-34
			1935-68
Strawberry Reservoir near Soldier Springs, Ut (e)	09282500	170	1913-68
Indian Creek in Strawberry Valley, Ut (d)	09284000	a50	1905-06
			1909-10
Strawberry River blw mouth of Indian Creek, Strawberry Valley, Ut (d)	09284500	182	1903-06
			1909
Strawberry River near Soldier Springs, Ut (d)	09285000	213	1942-56
			1963-94
Willow Creek near Soldier Springs, Ut (d)	09285500	a44	1943-47
Strawberry River above Red Creek near Fruitland, Ut (d)	09285700	363	1964-81
Strawberry River at Pinnacles near Fruitland, Ut (d)	09285900	372	1989-94
Red Creek near Fruitland, Ut (d)	09286500	a89	1918-22
			1956-61
Currant Creek below Currant Creek Dam, near Fruitland, Ut (d)	09286700	48.0	1983-94
Currant Creek below Red Ledge Hollow near Fruitland, Ut (d)	09287000	50.1	1946-68
			1974-83
Water Hollow near Fruitland, Ut (d)	09287500	a14	1946-84
Red Creek below Currant Creek near Fruitland, Ut (d)	09288100	297	1964-81
West Fork Avintaquin Creek near Fruitland, Ut (d)	09288150	56.1	1964-86
Starvation Reservoir near Duchesne, Ut (e)	09288395	1,058	1989-94
Strawberry River below Starvation Reservoir near Duchesne, Ut (d)	09288400	1,059	1989-94
Strawberry River at Duchesne (Theodore), Ut (d)	09288500	1,066	1908-10
			1915-68
Sowers Creek near Duchesne, Ut (d)	09288900	40.6	1964-86
Antelope Creek near Myton, Ut (d)	09289000	a198	1918-21
Brown Duck Creek near Mountain Home, Ut (d)	09290000	a15	1933-34
			1943-55
Lake Fork River below Taskeech Damsite near Mt Home, Ut (d)	09291200	138	1977-84
Yellowstone Creek below Swift Creek near Altonah, Ut (d)	09291500	a99	1950-55
Yellowstone River at mouth near Altonah, Ut (d)	09293000	142	1943-44
			1976-81
Lake Fork River (below Forks) near Altonah, Ut (d)	09293500	304	1904
			1907-10
			1917-20
			1976-81
Lake Fork River at Hwy 87 near Altamont, Ut (d)	09293600	318	1976-81
Pigeon Water Creek near Altamont, Ut (d)	09293700	95.5	1976-79

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

XV

Station name	Station number	Drainage area (sq mi)	Period of record
DUCHESNE RIVER BASIN--Continued			
Lake Fork River near Upalco, Ut (d)	09294000	427	1943-55 1976-81
Lake Fork (Creek) near Myton, Ut (d)	09294500	484	1900-03 1907-36 1976-81
Uinta River below Gilbert Creek near Neola, Ut (d)	09295500	a33	1951-55
Uinta River above Clover Creek near Neola, Ut (d)	09296000	132	1946-55
Clover Creek near Neola, Ut (d)	09296500	a9.5	1950-55
Uinta River near Neola, Ut (d)	09297000	163	1922-27 1930-83
Uinta River near Whiterocks, Ut (d)	09297500	218	1899-1903 1907-10 1917-20
West Channel Uinta River below diversion works near Whiterocks, Ut (d)	09297600	216	1976-81
East Channel Uinta River below diversion works near Whiterocks, Ut (d)	09297700	215	1977-81
East Channel Uinta River at County Road Bridge near Whiterocks, Ut (d)	09297800	253	1976-81
East Channel Uinta River at LaPoint Road near LaPoint, Ut (d)	09297900	382	1976-82
Farm Creek near Whiterocks, Ut (d)	09298000	14.9	1950-81
Whiterocks River above Paradise Creek near Whiterocks, Ut (d)	09298500	a90	1946-55
Paradise Creek near Whiterocks, Ut (d)	09299000	a10	1946-55
Whiterocks River below damsite near Whiterocks, Ut (d)	09299400	110	1976-81
Whiterocks River below Farm Creek Canal near Whiterocks, Ut (d)	09299600	120	1976-81
Whiterocks River 1 mile east of Whiterocks, Ut (d)	09299700	124	1976-81
Deep Creek at State Hwy 246 near LaPoint, Ut (d)	09299900	72.2	1976-79
Deep Creek near LaPoint, Ut (d)	09300000	a75	1943-45 1950-55
Uinta River at Fort Duchesne, Ut (d)	09300500	557	1899-1904 1907-10 1917-20 1943-58 1976-81
Dry Gulch near Neola, Ut (d)	09301000	a67	1951-58
Dry Gulch near Fort Duchesne, Ut (d)	09301200	469	1976-81
Uinta River at Randlett, Ut (d)	09301500	1,064	1899-1904 1976-81
WHITE RIVER BASIN			
White River near Colorado State Line, Ut (d)	09306395	3,680	1977-86
White River above Hells Hole Canyon near Watson, Ut (d)	09306400	a3,700	1974-76
Hells Hole Canyon Creek at mouth near Watson, Ut (d)	09306405	24.5	1975-83
Evacuation Creek above Missouri Creek near Dragon, Ut (d)	09306410	100	1975-83
Evacuation Creek below Park Canyon near Watson, Ut (d)	09306415	246	1975-76
Thimble Rock Canyon near Watson, Ut (d)	09306417	1.7	1975-76
Evacuation Creek at Watson, Ut (d)	09306420	259	1975-75
Evacuation Creek Tributary near Watson, Ut (d)	09306425	12.4	1974-76
Evacuation Creek near mouth near Watson, Ut (d)	09306430	284	1975-81
White River below Southam Canyon near Watson, Ut (d)	09306600	a4,030	1975-76
Southam Canyon Wash near Watson, Ut (d)	09306605	2.5	1974-76
Southam Canyon Wash at mouth near Watson, Ut (d)	09306610	8.3	1974-76
Asphalt Wash below Center Fork near Watson, Ut (d)	09306620	94.4	1975-76
Asphalt Wash near mouth near Watson, Ut (d)	09306625	97.5	1974-83
White River below Asphalt Wash near Watson, Ut (d)	09306700	a4,130	1974-77
Bitter Creek above Dick Canyon near Watson, Ut (d)	09306740	11.7	1975-78
Sweetwater Canyon below South Canyon near Watson, Ut (d)	09306760	22.6	1975-78
Sweetwater Canyon Creek near mouth near Watson, Ut (d)	09306780	124	1975-78
Bitter Creek near Bonanza, Ut (d)	09306800	324	1971-89
Bitter Creek at mouth near Bonanza, Ut (d)	09306850	398	1975-83

XVI WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
WHITE RIVER BASIN—Continued			
Sand Wash near Ouray, Ut (d)	09306870	59.7	1975-81
Sand Wash at mouth near Ouray, Ut (d)	09306872	71.1	1977-81
Coyote Wash near mouth near Ouray, Ut (d)	09306878	228	1977-83
North Wash near Ouray, Ut (d)	09306880	11.0	1980-81
Cottonwood Wash near mouth near Ouray, Ut (d)	09306885	70.6	1977-81
White River at mouth near Ouray, Ut (d)	09306900	5,120	1974-86
TRIBUTARIES BETWEEN DUCHESNE RIVER AND PRICE RIVER			
Green River near Ouray, Ut (d)	09307000	a35,500	1948-66
Pariette Draw near Ouray, Ut (d)	09307200	153	1976-84
Combined Flow Pariette Draw at mouth and Lambs Diversion (d)	09307290	—	1978-80
Lambs Diversion from Pariette Draw near Ouray, Ut (d)	09307295	—	1978-82
Pariette Draw at mouth near Ouray, Ut (d)	09307300	298	1975-84
Willow Creek above diversions near Ouray, Ut (d)	09307500	297	1951-55 1958-70 1975-83
Hill Creek above Towave Reservoir near Ouray, Ut (d)	09307800	89.7	1975-81
Hill Creek near mouth near Ouray, Ut (d)	09307900	288	1975-81
Willow Creek near Ouray, Ut (d)	09308000	897	1948-55 1975-83
Minnie Maud Creek near Myton, Ut (d)	09308500	32.0	1950-55 1957-89
Minnie Maud Creek at Nutter Ranch near Myton, Ut (d)	09309000	231	1948-55
PRICE RIVER BASIN			
Fairview Ditch near Fairview, Ut (d)	09309500	—	1950-65
Gooseberry Creek near Fairview, Ut (d)	09309800	a7.51	1960-69
Boardinghouse Creek at mouth near Scofield, Ut (d)	09310575	2.04	1983-84
Eccles Canyon near Scofield, Ut (d)	09310600	5.5	1980-84
Price River near Scofield, Ut (d)	09311500	a155	1918-21 1925-31 1939-69 1979-80
Price River near Soldier Summit, Ut (d)	09311700	a180	1962-63
North Fork White River near Soldier Summit, Ut (d)	09312000	23.3	1942-47
White River near Soldier Summit, Ut (d)	09312500	52.8	1938-67
Beaver Creek near Soldier Summit, Ut (d)	09312700	26.1	1961-89
Willow Creek near Castle Gate, Ut (d)	09312800	62.8	1963-89
Willow Creek at Castle Gate, Ut (d)	09312900	77.4	1980-81
Spring Canyon below Sowbelly Gulch at Helper, Ut (d)	09313040	23.0	1979-81
Price River near Helper, Ut (d)	09313500	a530	1904-34
Coal Creek near Helper, Ut (d)	09313965	25.3	1978-81
Soldier Creek below Mine near Wellington, Ut (d)	09313975	17.7	1978-84
Dugout Creek near Sunnyside, Ut (d)	09313985	5.8	1980-81
Price River near Wellington, Ut (d)	09314000	853	1950-58
Price River below Miller Creek near Wellington, Ut (d)	09314250	956	1972-86
Desert Seep Wash near Wellington, Ut (d)	09314280	191	1972-86
Grassy Trail Creek at Sunnyside, Ut (d)	09314340	40.1	1978-85
Horse Canyon near Sunnyside, Ut (d)	09314374	12.5	1978-81
Price River at Woodside, Ut (d)	09314500	1,540	1909-10 1911 1945-92
TRIBUTARIES BETWEEN PRICE RIVER AND SAN RAFAEL RIVER			
Saleratus Wash at Green River, Ut (d)	09315500	a180	1949-70
Browns Wash near Green River, Ut (d)	09316000	a75	1950-68
Floy Wash near Green River, Ut (d)	09316100	56.6	1983-86

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 XVII
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
TRIBUTARIES BETWEEN PRICE RIVER AND SAN RAFAEL RIVER--Continued			
Boulger Creek near Fairview, Ut (d)	09317000	a1.9	1938-40 1942-49
Candland Ditch near Mt. Pleasant, Ut (d)	09317500	—	1950-58
Crandall Canyon at mouth near Huntington, Ut (d)	09317919	5.70	1978-84
Tie Fork Canyon near Huntington, Ut (d)	09317920	11.7	1978-81
Huntington Creek near Huntington, Ut (d)	09318000	187	1909-79
Huntington Creek near Castle Dale, Ut (d)	09318500	325	1911-17 1919-21
Horseshoe Tunnel near Ephraim, Ut (d)	09320000	—	1950-58
Larsen Tunnel near Ephraim, Ut (d)	09320500	—	1949-58
Coal Fork Ditch near Mount Pleasant, Ut (d)	09321000	—	1950-58 1976
Twin Creek Tunnel near Mount Pleasant, Ut (d)	09321500	—	1950-58
Black Canyon Ditch near Spring City, Ut (d)	09322000	—	1950-58
Cedar Creek Tunnel near Spring City, Ut (d)	09322500	—	1950-58
Reeder Ditch near Spring City, Ut (d)	09323500	—	1950-58
Seely Creek near Orangeville, Ut (d)	09324000	a150	1954-57
Cottonwood Creek above Straight Canyon near Orangeville, Ut (d)	09324200	21.9	1978-81
Cottonwood Creek near Orangeville, Ut (d)	09324500	208	1910-27 1933-70 1975-85
Cottonwood Creek near Castle Dale, Ut (d)	09325000	261	1947-58
San Rafael River above Ferron Creek near Castle Dale, Ut (d)	09325100	a680	1965-70
John August Ditch near Ephraim, Ut (d)	09325500	—	1949-58
Madsen Ditch near Ephraim, Ut (d)	09326000	—	1950-58
Ferron Creek near Ferron, Ut (d)	09327000	159	1909-11
Ferron Creek near Castle Dale, Ut (d)	09327500	a210	1912-14 1948-58
Ferron Creek below Paradise Ranch near Clawson, Ut (d)	09327550	221	1976-86
San Rafael River near Castle Dale, Ut (d)	09328000	930	1948-64 1972-86
San Rafael River at San Rafael Bridge Campground, nr Castle Dale, Ut (d)	09328100	1,284	1975-86
Crescent Wash Reservoir, Ut (e)	09328870	19.0	1954-57
DIRTY DEVIL RIVER BASIN			
Fremont River below Fish Lake near Fremont, Ut (d)	09329000	a27	1939-45
Fremont River near Fremont, Ut (d)	09329500	205	1949-58
Pine Creek near Bicknell, Ut (d)	09329900	104	1965-80
Plesant Creek near Caineville, Ut (d)	09330210	115	1969-72
Bull Creek near Hanksville, Ut (d)	09330410	7.53	1983-91
Muddy Creek (Lower Station) near Emery, Ut (d)	09331000	114	1911-14
Ivie Creek above diversions near Emery, Ut (d)	09331500	a50	1951-61
Convulsion Canyon near Emery, Ut (d)	09331850	21.6	1981-84
Quitcupah Creek near Emery, Ut (d)	09331900	104	1978-81
Christiansen Wash near Emery, Ut (d)	09331950	13.6	1978-84
Muddy Creek below I-70 near Emery, Ut (d)	09332100	418	1973-86
Muddy Creek below Ivie Creek near Emery, Ut (d)	09332500	a440	1950-61
Muddy Creek at Delta Mine near Hanksville, Ut (d)	09332700	841	1975-86
Muddy Creek at mouth near Hanksville, Ut (d)	09332800	1,552	1976-80
Dirty Devil River near Hanksville, Ut (d)	09333000	a3,490	1946-48
Dirty Devil River above Poison Spring Wash, near Hanksville (d)	09333500	4,159	1948-93
North Wash near Hanksville, Ut (d)	09334000	136	1951-70
White Canyon near Hanksville (Hite), Ut (d)	09334500	276	1951-70
Colorado River at Hite, Ut (d)	09335000	a76,600	1948-58

XVIII WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
ESCALANTE RIVER BASIN			
North Creek near Escalante, Ut (d)	09335500	a90	1950-55
Birch Creek near Escalante, Ut (d)	09336000	a36	1950-51
Birch Creek at mouth near Escalante, Ut (d)	09336500	a100	1952-55
East Fork Boulder Creek near Boulder, Ut (d)	09338000	21.4	1951-55 1958-72
East Fork Deer Creek near Boulder, Ut (d)	09338500	a1.9	1950-55
Boulder Creek (below Deer Creek) near Boulder, Ut (d)	09339000	a175	1950-55
Escalante River at mouth near Escalante, Ut (d)	09339500	a1,770	1951-55
SAN JUAN RIVER BASIN			
McElmo Creek near Bluff, Ut (d)	09372200	—	1981-82
Spring Creek above diversions near Monticello, Ut (d)	09376900	4.95	1966-72
Davenport and Campbell Canal near Monticello, Ut (d)	09377500	—	1914-16
Spring (Vaga) Creek near Monticello, Ut (d)	09377000	a8.5	1914-16
Green Canal near Monticello, Ut (d)	09378000	—	1914-16
North Creek above Ranger Station near Monticello, Ut (d)	09378100	8.68	1980-85
Montezuma Creek at Golf Course, at Monticello, Ut (d)	09378200	17.6	1979-92
Montezuma Creek near Bluff, Ut (d)	09378600	1,154	1985-93
Recapture Creek below Johnson Creek, near Blanding, Ut (d)	09378650	50.2	1975-93
Cottonwood Wash near Blanding, Ut (d)	09378700	205	1965-87
Comb Wash near Bluff, Ut (d)	09379000	278	1959-68
COMBINED INFLOW ABOVE GLEN CANYON DAM			
Colorado plus Green plus San Juan (temp) (d)	09379505	—	1928-84
COLORADO RIVER TRIBUTARIES BELOW GLEN CANYON DAM			
Henrieville Creek near Henrieville, Ut (d)	09381000	a29	1950-55
Paria River near Cannonville, Ut (d)	09381500	a220	1951-55
Mill Creek above study area near Glendale, Ut (d)	09403620	4.81	1976-77
Skutumpah Creek below study area near Glendale, Ut (d)	09403630	16.0	1976-77
Intermediate Drainage near Glendale, Ut (d)	09403640	2.49	1976-77
Thompson Creek above study area near Glendale, Ut (d)	09403650	9.80	1976-77
Thompson Creek below study area near Glendale, Ut (d)	09403660	16.6	1976-77
VIRGIN RIVER BASIN			
Deep Creek near Cedar City, Ut (d)	09405200	6.72	1987-93
East Fork Deep Creek near Cedar City, Ut (d)	09405250	7.82	1987-93
Crystal Creek near Cedar City, Ut (d)	09405300	10.2	1957-61
North Fork Virgin River near Glendale, Ut (d)	09405400	5.65	1973-78
North Fork Virgin River below Bulloch Canyon near Glendale, Ut (d)	09405420	29.6	1975-84
North Fork Virgin River above Zion Narrows near Glendale, Ut (d)	09405450	45.5	1979-84
North Fork Virgin River above Big Bend near Springdale, Ut (d)	09405490	311	1991-94
Springdale Canal near Springdale, Ut (d)	09405499	—	1969-89
North Creek near Virgin, Ut (d)	09405900	110	1984-93
LaVerkin Creek near LaVerkin, Ut (d)	09406150	91.3	1984-91
Kanarra Creek at Kanarraville, Ut (d)	09406300	9.85	1960-82
Ash Creek near New Harmony, Ut (d)	09406500	a133.9	1939-48
Ash Creek Reservoir near New Harmony, Ut (e)	09406600	—	1973-82
South Ash Creek below Mill Creek near Pintura, Ut (d)	09406700	11.0	1966-82
Ash Creek above Toquerville, Ut (d)	09407000	201	1941-42 1984-91
West Field Ditch at Toquerville, Ut (d)	09407150	—	1973-82
Ash Creek below West Field Ditch at Toquerville, Ut (d)	09407200	201	1973-82
Ash Creek below diversion dam at Toquerville, Ut (d)	09407201	—	1973-82
Ash Creek near Toquerville, Ut (d)	09407600	213	1956-58
Ash Creek near LaVerkin, Ut (d)	09407800	215	1957-58
Virgin River above Quail Creek near Hurricane, Ut (d)	09408135	1,381	1989-90 1992-93

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 XIX
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
VIRGIN RIVER BASIN—Continued			
Virgin River near Hurricane, Ut (d)	09408150	1,499	1967-89
Fort Pierce Wash near St. George, Ut (d)	09408195	1,349	1985-89
Santa Clara-Pinto Diversion near Pinto, Ut (d)	09408500	—	1954-62 1970-95
Santa Clara River near Central, Ut (d)	09409000	a97	1909-30 1939-61
Moody Wash near Veyo, Ut (d)	09409500	a33	1939-42 1955-69
Santa Clara River above Winsor Dam near Santa Clara, Ut (d)	09410000	338	1942-71
Santa Clara River near Santa Clara, Ut (d)	09410400	410	1965-74
Santa Clara River (Creek) near St. George, Ut (d)	09412500	502	1909-13
THE GREAT BASIN			
Great Salt Lake at Promontory Point, Ut (e)	10010050	—	1975-82
Great Salt Lake at AIC near Syracuse, Ut (e)	10010300	—	1975-82
BEAR RIVER BASIN			
East Fork Bear River near Evanston, Wy (d)	10010400	34.6	1974-86
Hilliard East Fork Canal near State Line near Evanston, Wy (d)	10010500	—	1944-47 1953-56
West Fork Bear River at Whitney Dam, near Oakley, Ut (d)	10011200	a7.5	1964-86
West Fork Bear River below Deer Creek near Evanston, Wy (d)	10011400	52.2	1974-86
Mill Creek at Utah-Wyoming State Line (d)	10012000	a59	1950-62
Mill Creek near Evanston, Wy (d)	10012500	60.6	1942-48
Bear River above Sulphur Creek near Evanston, Wy (d)	10014000	282	1946-56
Sulphur Creek below reservoir, near Evanston, Wy (d)	10015900	69.2	1958-92
Sulphur Creek near Evanston, WY (d)	10016000	80.5	1942-59
Bear River at Millis, near Evanston, Wy (d)	10016500	a420	1942-46
Yellow Creek near Evanston, Wy (d)	10017000	a80	1943-45 1950-78
Coyote Creek near Evanston, Wy (d)	10017500	a28	1942-45
Bear River near Evanston, Wy (d)	10019000	715	1913-56
Chapman Canal at State Line near Evanston, Wy (d)	10019500	—	1942-86
Woodruff Narrows Reservoir near Woodruff, Ut (e)	10020200	784	1966-96
Bear River near Woodruff, Ut (d)	10020500	a870	1943-61
Woodruff Creek below reservoir near Woodruff, Ut (d)	10020900	50.0	1971-86
Woodruff Creek near Woodruff, Ut (d)	10021000	a65	1938-43 1950-75
Birch Creek near Woodruff, Ut (d)	10021500	a17	1949-56
Randolph Creek near Randolph, Ut (d)	10024000	30.3	
Otter Creek near Randolph, Ut (d)	10025000	36.2	1939-44
Bear River near Randolph, Ut (d)	10026500	1,616	1943-92
Rock Creek near Fossil, Wy (d)	10026800	49.0	1961-66
Twin Creek at Sage, Wy (d)	10027000	246	1946-62
Bear River below Pixley Dam near Cokeville, Wy (d)	10028500	2,032	1941-43 1952-56 1958
Bear River above Sublette Creek near Cokeville, WY (d)	10029500	a2,110	1948-55
Smiths Fork above Hobbie Creek near Geneva, Id (d)	10031000	—	1944-46
Hobbie Creek near Geneva, Id (d)	10031500	86.1	1943-46
Coal (Howland) Creek near Cokeville, Wy (d)	10032500	—	1944-48 1953-56
Muddy Creek above Mill Creek near Cokeville, Wy (d)	10032700	20.7	1964-69
Mill Creek near Cokeville, Wy (d)	10032800	8.07	1965-69
Grade Creek near Cokeville, Wy (d)	10033000	—	1944-48
Pine Creek above Diversions near Cokeville, Wy (d)	10033500	—	1944-48 1953-56

XX WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
BEAR RIVER BASIN--Continued			
Pine Creek above Covey Canal near Cokeville, Wy (d)	10034500	—	1944-48 1953-56
Smiths Fork at Cokeville, Wy (d)	10035000	275	1942-52
Spring Creek to Collette Creek near Cokeville, Wy (d)	10036000	—	1944-45 1953-56
Birch Creek near Cokeville, Wy (d)	10036500	—	1944-45
Hickman Canal near Cokeville, Wy (d)	10037000	—	1944-48
George Bourne Canal near Cokeville, Wy (d)	10037500	—	1944-48
Thomas Fork near Geneva, Id (d)	10040000	45.3	1939-51
Salt Creek near Geneva, Id (d)	10040500	37.6	1939-51
Thomas Fork near Wyoming-Idaho state line (d)	10041000	113	1949-92
Thomas Fork above Diversions near Geneva, Id (d)	10041500	—	1944-46
Thomas Fork near Raymond, Id (d)	10042500	202	1942-52
Bear River at Harer, Id (d)	10044000	2,839	1913-86
Dingle Inlet Canal near Dingle, Id (d)	10044300	--	1911-92
Bear River at Dingle, Id (d)	10044500	a2,810	1903-14
Bear River below Stewart Dam near Montpelier, Id (d)	10046500	2,853	1922-92
Montpelier Creek near Montpelier, Id (d)	10047000	28.2	1939-44
Montpelier Creek below Diversions at Montpelier, Id (d)	10048500	—	1944-47
St. Charles Creek above Diversions near St. Charles, Id (d)	10054600	17.4	1944-45 1961-66
Bloomington Creek near Bloomington, Id (d)	10058500	22.1	1942-47
Bloomington Creek at Bloomington, Id (d)	10058600	24.0	1960-86
Paris Power Canal near Paris, Id (d)	10060000	—	1943-47
Paris Creek near Paris, Id (d)	10060500	18.6	1943-47
Slight Canyon Creek near Pairs, Id (d)	10062000	6.81	1943-45
Mill Creek above West Fork near Liberty, Id (d)	10062500	18.4	1944-47
Mill Creek near Liberty, Id (d)	10063000	27.2	1943-47
Bear River at Pescadero, Id (d)	10068500	3,705	1921-54
Georgetown Creek near Georgetown, Id (d)	10069000	22.2	1911-14 1939-56
Georgetown Creek below diversions at Georgetown, Id (d)	10070500	—	1944-47
Skinner Creek at Nounan, Id (d)	10071500	5.41	1939-45
Stauffer Creek near Nounan, Id (d)	10072000	—	1939-44
Eightmile Creek near Soda Springs, Id (d)	10072800	22.6	1960-86
Eightmile Creek below Diversions near Soda Springs, Id (d)	10073500	31.0	1944-47
Bear River at Soda Springs, Id (d)	10075000	3,972	1896-98 1925-44 1944-49 1953
Soda Creek at Fivemile Meadow near Soda Springs, Id (d)	10076400	a49	1964-86
Soda Creek at Lau Ranch near Soda Springs, Id (d)	10076500	a49	1923-26
Soda Creek near Soda Springs, Id (d)	10077000	54.6	1913-26 1928-29
Soda Creek below Diversions at Soda Springs, Id (d)	10078000	—	1945-47
Treasureton Canal near Swan Lake, Id (d)	10083500	—	1939-46
Cottonwood Creek near Swan Lake, Id (d)	10084000	42.6	1939-46
Cottonwood Creek near Cleveland, Id (d)	10084500	61.7	1938-86
Mink Creek Canal near Mink Creek, Id (d)	10087000	—	1949-52
Mink Creek below Dry Fork near Mink Creek, Id (d)	10087500	19.3	1947-52 1955-62
Twin Lakes Canal near Mink Creek, Id (d)	10088000	—	1943-52
Preston Riverdale and Mink Creek Canal near Mink Creek, Id (d)	10088500	—	1943-52
Mink Creek near Mink Creek, Id (d)	10089500	58.7	1943-52
Bear River near Preston (at Battlecreek), Id (d)	10090500	4,545	1889-1919 1944-45 1981-86

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

XXI

Station name	Station number	Drainage area (sq mi)	Period of record
BEAR RIVER BASIN--Continued			
Deep Creek near Clifton, Id (d)	10091200	107	1966-78
Bear River near Weston, Id (d)	10091500	4,880	1919-44
Weston Creek at Weston, Id (d)	10092000	a63	1942-44
Cub River Irrigation Company Pump Canal near Weston, Id (d)	10092500	—	1934-44
Cub River near Preston, Id (d)	10093000	19.4	1940-52
			1955-86
Cub River-Worm Creek Canal near Preston, Id (d)	10094000	—	1943-52
Preston-Whitney Canal near Preston, Id (d)	10095000	—	1944-45
			1946-52
Cub River Canal near Preston, Id (d)	10095500	—	1944-52
East Branch Cub River Canal near Lewiston, Ut (d)	10095900	—	1962-63
Cub River above Maple Creek near Franklin, Id (d)	10096000	53.7	1940-52
Maple Creek near Franklin, Id (d)	10096500	21.2	1946-52
Worm Creek near Preston, Id (d)	10098500	11.0	1943-46
High Creek near Richmond, Ut (d)	10099000	16.2	1944-52
			1971-72
			1978-89
Cub River near Richmond, Ut (d)	10102200	a200	1962-63
Bear River near Smithfield, Ut (d)	10102250	5193	1964-78
			1990-95
Summit Creek above diversions near Smithfield, Ut (d)	10102300	11.6	1944-45
			1961-79
Birch Creek at mouth near Smithfield, Ut (d)	10103000	—	1944-45
South Fork Little Bear River near Avon, Ut (d)	10104600	26.0	1966-74
Little Bear River below Davenport Creek near Avon, Ut (d)	10104700	61.6	1960-92
East Fork Little Bear River above Reservoir near Avon, Ut (d)	10104900	56.7	1964-86
East Fork Little Bear River (below Pole Creek) near Avon, Ut (d)	10105000	49.7	1938-50
East Fork Little Bear River below Pole Creek near Avon, Ut (d)	10105500	a67	1927-30
Little Bear River near Paradise, Ut (d)	10106000	203	1937-86
Hyrum Reservoir near Hyrum, Ut (e)	10107000	220	1938-80
Little Bear River near Hyrum, Ut (d)	10107500	222	1938-74
Little Bear River at Wellsville, Ut (d)	10107600	245	1966-68
Utah Power and Light Tailrace near Logan, Ut (d)	10108000	—	1913-70
Logan, Hyde Park and Smithfield Canal near Logan, Ut (d)	10108500	—	1904-07
			1909-10
			1912-64
Logan River near Logan, Ut (d)	10109500	—	1896-1912
Logan Northern Canal near Logan, Ut (d)	10110500	—	1913-16
			1944-45
Logan River below Logan Northern Canal near Logan, Ut (d)	10111000	—	1915-17
Blacksmith Fork below Mill Creek near Hyrum, Ut (d)	10111700	78.0	1965-69
			1985-92
Blacksmith Fork at Hardware Ranch near Hyrum, Ut (d)	10112000	a130	1944-50
Blacksmith Fork at Municipal Powerplant near Hyrum, Ut (d)	10112500	153	1929-35
Hyrum City Power Canal near Hyrum, Ut (d)	10113000	—	1904-10
(Blacksmith Fork Municipal Powerplant Race)			1914-17
Blacksmith Fork above Utah Power and Light Co.'s Dam, near Hyrum, UT (d)	10113500	263	1914-96
Blacksmith Fork at U.P. & L. Plant near Hyrum, Ut (d)	10114000	—	1914-16
Blacksmith Fork below U.P. & L. Plant near Hyrum, Ut (d)	10114500	286	1900-02
(Blacksmith Fork at Hyrum)			1904-10
			1914-16
Logan River below Blacksmith Fork near Logan, Ut (d)	10115200	524	1964-80
Clarkston Creek near Newton, Ut (d)	10115500	a43	1939-47
Cutler Reservoir at Cache Junction, Ut (e)	10116000	—	1944-50
West Canal above Salt Creek diversion near Tremonton, Ut (d)	10117510	—	1980-84
			1986

XXII WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
BEAR RIVER BASIN--Continued			
West Canal below Salt Creek diversion near Tremonton, Ut (d)	10117530	—	1980-84 1986
Malad River below Springs near Malad City, Id (d)	10118200	a3.3	1931-32 1940-47
Warm Springs Canal near Samaria, Id (d)	10118300	—	1940-45
Malad River near Samaria, Id (d)	10118400	a31	1941-45
Little Malad River above Elkhorn Reservoir near Malad, Id (d)	10119000	a120	1911-13
Elkhorn Reservoir near Malad City (near Malad), Id (e)	10119500	153	1940-53
Little Malad River below Elkhorn Reservoir near Malad, Id (d)	10120000	153	1940-53
Little Malad River below Sand Ridge Dam near Malad, Id (d)	10120500	223	1945-51
Devil Creek above Campbell Creek near Malad City, Id (d)	10122500	a13	1938-61
Devil Creek above Evans Dividers near Malad City, Id (d)	10123000	a36	1940-43 1946-53
Devil Creek near Malad City (near Malad), Idaho (d)	10123500	a39	1931-40
Deep Creek below First Creek near Malad City, Id (d)	10125000	a32	1931-48
Malad River at Woodruff, Id (d)	10125500	a485	1938-82
Malad river near Plymouth, Ut (d)	10125600	a632	1964-80
Bear River Duck Club near Bear River City, Ut (d)	10125700	—	1964-73
Malad River below Bear River Duck Club Canal near Bear River City, Ut (d)	10125800	a698	1964-74
TRIBUTARIES TO GREAT SALT LAKE BETWEEN BEAR RIVER AND WEBER RIVER			
Sulphur Creek near Corinne, Ut (d)	10126180	15.4	1972-86
Box Elder Creek at Mantua, Ut (d)	10126400	14.0	1960-63
Box Elder Creek near Brigham City, Ut (d)	10126500	33.4	1918-21
Box Elder Creek at Brigham City, Ut (d)	10127000	34.2	1909-12
Salt Spring near Tremonton, Ut (d)	10127040	—	1979-86
Salt Creek below Salt Spring near Tremonton, Ut (d)	10127050	—	1979-86
Black Slough near Brigham City, Ut (d)	10127100	31.1	1972-86
Highway 83 Culverts (d)	10127107	—	1980-86
Sulphur Creek & Black Slough (d)	10127108	—	1980-86
Culverts & Sulphur Creek & Black Slough (d)	10127109	—	1980-86
Bear River Basin outflow across State Hwy 83 near Corinne, Ut (d)	10127110	—	1972-86
WEBER RIVER BASIN			
Smith and Morehouse Creek near Oakley, Ut (d)	10128000	33.8	1947 1976-86
South Fork Weber River near Oakley, Ut (d)	10128200	a16	1965-74
Weber Provo Diversion Canal at Oakley, Ut (d)	10129000	—	1931-69
Weber River near Peoa, Ut (d)	10129300	296	1957-77
Crandall Creek near Peoa, Ut (d)	10129350	11.8	1963-73
Silver Creek near Wanship, Ut (d)	10130000	27.9	1942-46 1982-85 1990-96
East Fork Chalk Creek near Coalville, Ut (d)	10130700	a35	1965-74
Lost Creek at Croydon, Ut (d)	10132900	a220	1966-67
Lost Creek at Devils Slide (near Croydon), Ut (d)	10133000	223	1905 1921-33
Weber River at Devils Slide, Ut (d)	10133500	1,192	1905-55
Kimball Creek above East Canyon Creek near Park City, Ut (d)	10133540	12.2	1990-96
McLeod Creek near Park City, Ut (d)	10133600	8.78	1990-96
Threemile Creek near Park City, Ut (d)	10133700	2.68	1964-74 1982-84
East Canyon Cr above Big Bear Hollow, near Park City, Ut	10133895	75.0	1990-96
East Canyon Creek near Park City, Ut (d)	10133900	68.9	1982-84
Hardscrabble Creek near Porterville, Ut (d)	10135000	28.0	1937-40 1941-70
East Canyon Creek below diversions near Morgan, Ut (d)	10135500	—	1951-55

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 XXIII
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
WEBER RIVER BASIN—Continued			
Weber River near Morgan, Ut (d)	10136000	a1,500	1951-55
Weber River at Ogden, Ut (d)	10137000	a1,670	1951-58
Causey Reservoir near Huntsville, Ut (e)	10137290	92.2	1966-68
South Fork Ogden River below Causey Dam near Huntsville, Ut (d)	10137300	92.3	1966-67
South Fork Ogden River at Huntsville, Ut (d)	10137600	a170	1937-57 1959-65
North Fork Ogden River near Eden, Ut (d)	10137680	6.03	1964-74
North Fork River near Huntsville, Ut (d)	10137700	61.4	1960-65
Middle Fork Ogden River above diversion near Huntsville, Ut (d)	10137780	31.3	1964-74
Middle Fork Ogden River at Huntsville, Ut (d)	10137800	32.9	1958-65
Spring Creek at Huntsville, Ut (d)	10137900	a7.2	1958-65
Wheeler Creek near Huntsville, Ut (d)	10139300	11.1	1959-95
Ogden River near Ogden, Ut (d)	10139500	321	1904-12 1931-59
Ogden River below Pineview Dam near Ogden, Ut (d)	10140000	321	1937-59
Ogden River at Powder Mill near Ogden, Ut (d)	10140500	a360	1889-90 1897-98
Willard Bay Reservoir near Plain City, Ut (e)	10408000	—	1965-81
Hooper Slough near Hooper, Ut (d)	10141040	13.0	1975-83
South Fork Weber Canal near Hooper, Ut (d)	10141050	—	1972-76
South Fork Weber River near Hooper, Ut (d)	10141100	—	1972-75
Middle Fork Weber River near Hooper, Ut (d)	10141150	—	1971-75
North Fork Weber River near Hooper, Ut (d)	10141200	—	1971-75
TRIBUTARIES TO GREAT SALT LAKE BETWEEN WEBER RIVER AND JORDAN RIVER			
Storm Drain at 1700 N. 475 W., Sunset, Ut (d)	10141395	0.28	1948-83
Howard Slough at Hooper, Ut (d)	10141400	—	1952-55 1972-84
Holmes Creek near Kaysville, Ut (d)	10141500	2.49	1951-66
Farmington Creek above diversions near Farmington, Ut (d)	10142000	10.0	1950-71
Ricks Creek above diversions, near Centerville, Ut (d)	10142500	2.35	1951-66
Parrish Creek above diversions near Centerville, Ut (d)	10143000	2.08	1950-68
Centerville Creek above diversions near Centerville, Ut (d)	10143500	3.15	1950-80
Stone Creek above diversions near Bountiful, Ut (d)	10144000	4.48	1951-66
Mill Creek at Mueller Park near Bountiful, Ut (d)	10145000	8.88	1951-68
Storm Drain east of Orchard Drive at Bountiful, Ut (d)	10145125	0.80	1949-83
Storm Drain to Mill Creek, 620 S. 200 W., Bountiful, Ut (d)	10145126	0.28	1949-83
Salt Creek near Nephi, Ut (d)	10145500	a95	1925-38
JORDAN RIVER BASIN			
Currant Creek near Goshen, Ut (d)	10146500	303	1954-60
Summit Creek near Santaquin, Ut (d)	10147000	19.2	1911-16
		14.6	1955-66
Payson Creek above diversions, near Payson, Ut (d)	10147500	18.8	1948-62
Payson Creek (Peteetneet Creek) near Payson, Ut (d)	10148000	25.6	1910-16
Tie Fork near Soldier Summit, Ut (d)	10148200	19.4	1964-96
Nebo Creek near Thistle, Ut (d)	10148400	36.7	1964-73
Spanish Fork at Thistle, Ut (d)	10148500	450	1908-25 1932-74
Diamond Fork near Thistle, Ut (d)	10150000	141	1908-17 1940-55
U.S. Bureau of Reclamation Power Canal near Spanish Fork, Ut (d)	10151000	—	1909-17
Spanish Fork near Spanish Fork, Ut (d)	10151500	a670	1909-17
Spanish Fork near Lakeshore, Ut (d)	10152000	675	1904-07 1909-25 1938-88
Spanish Fork at mouth near Lake Shore, Ut (d)	10152001	—	1978-82

XXIV WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
JORDAN RIVER BASIN—Continued			
Hobble Creek near Springville, Ut (d)	10152500	105	1904-16 1945-74
Maple Creek near Mapleton, Ut (d)	10152700	3.13	1965-72
Maple Creek near Springville, Ut (d)	10153000	10.8	1912-13
Provo River near Kamas, Ut (d)	10153500	29.6	1950-69
North Fork Provo River near Kamas, Ut (d)	10153800	24.4	1964-96
Shingle Creek near Kamas, Ut (d)	10154000	a8.4	1963-73
Snake Creek near Charleston, Ut (d)	10156000	38.6	1938-50
Provo River below Jordanelle Dam, near Heber, Ut (d)	10155100	252	1991-94
Round Valley Creek near Wallsburg, Ut (d)	10158500	71.9	1938-50
Deer Creek near Wildwood, Ut (d)	10160000	a26	1939-50
Provo River near Wildwood, Ut (d)	10160500	574	1939-49
North Fork Provo River at Wildwood, Ut (d)	10160800	12.3	1965-74
Provo River at Vivian Park, Ut (d)	10161000	598	1912-63
South Fork Provo River at Vivian Park, Ut (d)	10161500	33.4	1912-62
Provo River above Telluride Power Co. Dam near Provo, Ut (d)	10162000	a640	1905-11
Provo River at mouth of canyon near Provo, Ut (d)	10162500	a640	1889-1906
Rock Creek Overflow east of Highway 189 near Provo, Ut (d)	10162850	0.66	1948-83
South Fork of American Fork near American Fork, Ut (d)	10164000	8.87	1912-14
American Fork (River) near American Fork, Ut (d)	10165000	a66	1889-90 1897 1900-01 1903-05
Dry Creek near Alpine, Ut (d)	10165500	9.82	1948-55
Fort Creek at Alpine, Ut (d)	10166000	6.55	1947-55
Utah Lake near Lehi (at Geneva) (near Spanish Fork), Ut (e)	10166500	2,965	1883-1960
Jordan River at Narrows, near Lehi, Ut (d)	10167000	3,010	1904 1913-88
Jordan River Station No. 1 at Narrows, Ut (d)	10167001	—	1980-83
East Jordan Canal at Jordan Narrows near Bluffdale, Ut (d)	10167100	—	1980-83
East Jordan Canal at Little Cottonwood Creek near Sandy, Ut (US) (d)	10167105	—	1980-82
East Jordan Canal at Little Cottonwood Creek near Sandy, Ut (DS) (d)	10167106	—	1980-82
East Jordan Canal at pumphouse at 6200 So. near Murray, Ut (d)	10167115	—	1980-82
Upper Canal at 5800 South (Tolcate Lane) near Murray, Ut (d)	10167122	—	1980-82
Upper Canal at Wild Rose Lane near Salt Lake City, Ut (d)	10167125	—	1980-82
Faust Creek below Tooele City well near Vernon, Ut (d)	10172726	—	1992-96
Upper Canal at Mill Creek (2000 East) near Salt Lake City, Ut (d)	10167127	—	1980-81
Jordan & Salt Lake Canal at Little Cottonwood Creek nr SLC, Ut (US) (d)	10167141	—	1980-82
Jordan & Salt Lake Canal at Little Cottonwood Creek nr SLC, Ut (DS) (d)	10167142	—	1980-82
Jordan & Salt Lake Canal at Big Cottonwood Creek nr Murray, Ut (US) (d)	10167145	—	1980-81
Jordan & Salt Lake Canal at Big Cottonwood Creek nr Murray, Ut (DS) (d)	10167146	—	1980-81
Jordan & Salt Lake Canal at Mill Creek near Salt Lake City, Ut (US) (d)	10167147	—	1980-82
Jordan & Salt Lake Canal at Mill Creek near Salt Lake City, Ut (DS) (d)	10167148	—	1980-82
Jordan & Salt Lake Canal at Zenith Ave near Salt Lake City, Ut (d)	10167149	—	1980-81
Utah & Salt Lake Canal at Jordan Narrows near Bluffdale, Ut (d)	10167160	—	1980-83
Jordan River at 9400 South near South Jordan, Ut (d)	10167200	q3,130	1965-67
Bells Canyon Conduit 1000 East 110000 South (d)	10167220	—	1948-81 1982-86
Jordan River at 90th South near Midvale, Ut (d)	10167230	q3,130	1980-84 1986-89
90th South Conduit at Jordan River near Midvale, Ut (d)	10167240	—	1980-84
I-215 Median Drain at Jordan River near Murray, Ut (d)	10167242	0.20	1984-86
Jordan River at 5800 South near Salt Lake City, Ut (d)	10167300	q3,254	1965-68 1980-85
Little Cottonwood Creek (channel) near Salt Lake City, Ut (d)	10167499	—	1980-88

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 XXV
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
JORDAN RIVER BASIN—Continued			
Little Cottonwood Creek near Salt Lake City, Ut (d)	10167500	27.4	1898-99 1904-68 1980
Little Cottonwood Creek at 2050 East near Salt Lake City, Ut (d)	10167700	35.2	1963-67 1979-81 1983-87
Little Cottonwood Creek at Crestwood Park at Salt Lake City, Ut (d)	10167800	—	1987-89
Little Cottonwood Creek at Jordan River near Salt Lake City, Ut (d)	10168000	—	1980-84 1987-88
Big Cottonwood Creek (Cottonwood Creek) near Salt Lake City, Ut (d)	10168500	50.0	1898-1967
Big Cottonwood Creek at 5550 South near Salt Lake City, Ut (d)	10168800	57.3	1964-68 1980-89
Neffs Creek above Wasatch Boulevard near Salt Lake City, Ut (d)	10168832	—	1984-86
Spring Run at 9th East & 48th South near Murray, Ut (d)	10169000	—	1933-35
Big Cottonwood Creek at Jordan River near Salt Lake City, Ut (d) (at 2nd West near Murray, Ut)	10169500	a78	1933-35 1980-82 1987-88
Mill Creek above Elbow Fork near Salt Lake City, Ut (d)	10169800	7.7	1964-68
Mill Creek near Salt Lake City, Ut (d)	10170000	21.7	1964-68 1980
Boundry Springs near Salt Lake City, Ut (d)	10170001	—	1963-67
Mill Creek at 2200 East near Salt Lake City, Ut (d)	10170200	22.6	1963-67
Mill Creek at Jordan River near Salt Lake City, Ut (d)	10170250	a32	1984 1986-88
Combined flow Jordan River and Surplus Canal at Salt Lake City, Ut (d)	10170490	—	1943-89
North Point Canal below Goss Flume at Salt Lake City, Ut (d)	10170700	—	1963-67 1979-83
Surplus Canal at North Temple at Salt Lake City, Ut (d)	10170750	—	1976-82
Surplus Canal at Cohen Flume near Salt Lake City, Ut (d)	10170800	—	1963-67
Parleys Creek near Salt Lake City, Ut (d)	10171500	50.1	1898-1963
Parleys Creek at Suicide Rock near Salt Lake City, Ut (d)	10171600	50.7	1964-68 1980-88
Emigration Creek below Burr Fork near Salt Lake City, Ut (d)	10171900	5.9	1964-68
Emigration Creek near Salt Lake City, Ut (d)	10172000	18.4	1898-1960 1960-68 1980-86
Emigration Creek below 1300 East at Salt Lake City, Ut (d)	10172100	a9	1963-67
Red Butte Creek below reservoir near Salt Lake City, Ut (d)	10172220	7.95	1942-67 1980-88
1300 South Conduits at Jordan River, combined flows (d)	10172350	—	1981 1987-88
South Conduit of 1300 So. Conduit at Jordan River, Salt Lake City, Ut (d)	10172351	—	1986-89
North Conduit of 1300 So. Conduit at Jordan River, Salt Lake City, Ut (d)	10172352	—	1980-81 1985-89
City Creek above Wasatch Drive, near Salt Lake City, Ut (d)	10172400	17.0	1964-68
City Creek near Salt Lake City, Ut (d)	10172500	19.2	1898-1960 1960-69 1980
Jordan River at 5th North at Salt Lake City, Ut (d)	10172550	—	1975-86
Jordan River at Cudahy Lane near Salt Lake City, Ut (d)	10172600	q3,590	1963-68 1974-76
Sewage Canal at Cudahy Lane near Salt Lake City, Ut (d)	10172620	—	1963-67
Storm Drain at International Center near Salt Lake City, Ut (d)	10172624	0.08	1984-86

XXVI WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
JORDAN RIVER BASIN—Continued			
Goggin Drain near Magna, Ut (d)	10172630	—	1964-67 1972-84
Lee Creek near Magna, Ut (d)	10172640	—	1972-82
Kennecott Drain near Magna, Ut (d)	10172650	—	1964-67 1972-84
RUSH VALLEY			
East Government Creek Tributary near Vernon, Ut (d)	10172720	a0.98	1961-74
TOOELE VALLEY			
Faust Creek below Tooele City Well near Vernon, Ut (d)	10172726	—	1992-96
Middle Canyon Creek near Tooele, Ut (d)	10172794	12.1	1984-86
Box Elder Wash near Grantsville, Ut (d)	10172795	9.84	1986-94
North Willow Creek near Grantsville, Ut (d)	10172805	5.38	1979-92
GREAT SALT LAKE DESERT			
Trout Creek near Callao, Ut (d)	10172870	8.19	1959-95
Deep Creek near Goshute, Ut (d)	10172893	a43	1964-68
Great Salt Lake West Pond near Wendover, Ut (e)	10172903	—	1987-89
Pine Creek near Grouse Creek, Ut (d)	10172921	—	1972-73
Dove Creek near Park Valley, Ut (d)	10172940	33.2	1959-68 1971-73
Fisher Creek near Park Valley, Ut (d)	10172950	—	1972-73
Indian Creek near Park Valley, Ut (d)	10172955	—	1971-73
West Locomotive Spring at Locomotive Spring near Snowville, Ut (d)	10172963	—	1969-73
Baker Spring at Locomotive Spring near Snowville, Ut (d)	10172964	—	1969-73
Bar M Spring at Locomotive Spring near Snowville, Ut (d)	10172965	—	1969-80
Off Spring at Locomotive Spring near Snowville, Ut (d)	10172967	—	1969-80
Sparks Spring at Locomotive Spring near Snowville, Ut (d)	10172968	—	1969-80
SEVIER LAKE BASIN			
Hatch Bence Canal near Hatch, Ut (d)	10173000	—	1914 1916-19
Mammoth Creek near Hatch, Ut (d)	10173500	151	1912-14 1915-19
Midway Creek near Hatch, Ut (d)	10173600	25.7	1958-62
Navajo Lake west of Dyke near Hatch, Ut (e)	10173700	—	1954-59
Duck Creek near Hatch, Ut (d)	10173900	—	1954-59
Asay Creek above West Fork near Hatch, Ut (d)	10174000	105	1954-59
Asay Creek near Hatch, Ut (d)	10174200	a96	1912-14 1939-41
Red Canyon Tributary near Bryce Canyon, Ut (d)	10174800	a2.2	1959-74
State Canal near Panguitch, Ut (d)	10175500	—	1913-19
Long Canal near Panguitch, Ut (d)	10176000	—	1914-19
Panguitch Creek near Panguitch, Ut (d)	10176300	97.0	1961-80
East Panguitch Canal near Panguitch, Ut (d)	10176500	—	1914-19
Panguitch Creek above Canals near Panguitch, Ut (d)	10177000	a110	1915-20
Panguitch Creek below Canals at Panguitch, Ut (d)	10177500	—	1915 1917-18
Barton and LeFevere Canal near Panguitch, Ut (d)	10178000	—	1915-19
McEwen Canal near Panguitch, Ut (d)	10178500	—	1914-19
Old Houston Canal near Panguitch, Ut (d)	10179000	—	1915-19
Sevier River near Circleville, Ut (d)	10180000	986	1912 1914-27
Fox Canal near Circleville, Ut (d)	10180500	—	1950-95 1914-19
Circleville Canal near Circleville, Ut (d)	10181000	—	1914-19

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 XXVII
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
SEVIER LAKE BASIN—Continued			
Old Kingston Canal near Circleville, Ut (d)	10181500	—	1914-19
Dalton Canal at Circleville, Ut (d)	10182000	—	1914-19
Mitchell Slough Canal near Junction, Ut (d)	10182500	—	1914-19
Junction Middle Canal near Junction, Ut (d)	10183000	—	1915-19
East Fork Sevier River near Ruby's Inn, Ut (d)	10183900	71.6	1962-95
Tropic and East Fork Canal near Tropic, Ut (d)	10184000	—	1950-61
East Fork Sevier River near Antimony, Ut (d)	10184450	a570	1961-66
Coyoto Canal near Coyoto, Ut (d)	10184500	—	1916-19
Antimony Creek near Antimony, Ut (d)	10185000	50.3	1946-48 1957-76
East Fork Sevier River at Antimony (Coyoto), Ut (d)	10185500	—	1915-19
Otter Creek Reservoir Feeder Canal at mouth near Coyoto, Ut (d)	10186500	—	1915-20
Otter Creek near Koosharem, Ut (d)	10187300	23.5	1964-82
Otter Creek above reservoir near Antimony, Ut (d)	10187500	322	1915-20 1961-64 1971-80
Otter Creek Reservoir near Antimony, Ut (e)	10188000	373	1914-15 1934-95
Otter Creek near Antimony (Coyoto), Ut (d)	10188500	—	1913-19
Combined Flow Sevier River and East Fork Sevier River (d)	10189001	—	1915-77
Kingston Canal at Kingston, Ut (d)	10189500	—	1914-19
Sevier River near Junction, Ut (d)	10190500	a2,390	1911-16
Piute Reservoir near Marysvale, Ut (e)	10191000	2438	1914-95
Sevier River near Marysvale, Ut (d)	10192000	a2,560	1906-11
Sevier River at Marysvale, Ut (d)	10192500	a2,580	1912-14
Pine (Bullion) Creek at Marysvale, Ut (d)	10193500	a29	1914 1918-19
Sevier River above Clear Creek, near Sevier, Ut (d)	10194000	2,707	1911-16 1939-55 1961-95
Cove Canal at Sevier, Ut (d)	10194500	—	1914-19
Clear Creek at Sevier, Ut (d)	10195000	169	1912-19 1934-58
Sevier River at Sevier, Ut (d)	10195500	a2,850	1917-29
Monroe South Bend Canal near Joseph, Ut (d)	10196000	—	1914-19
Sevier Valley Canal near Joseph, Ut (d)	10196500	—	1912-19
Joseph Canal near Joseph, Ut (d)	10197000	—	1914-19
Sevier Valley Canal near Richfield, Ut (d)	10198000	—	1912-19
State Canal near Redmond, Ut (d)	10200000	—	1913-19
Wells Canal near Joseph, Ut (d)	10200500	—	1914-19
Monroe Canal near Elsinore, Ut (d)	10201000	—	1914-19
Elsinore Canal near Elsinore, Ut (d)	10201500	—	1914-19
Brooklyn Canal near Elsinore, Ut (d)	10202000	—	1914-19
Richfield Canal near Fillmore, Ut (d)	10202500	—	1914-19
Annabella Canal at Elsinore, Ut (d)	10203000	—	1914-19
Vermilion Canal near Richfield, Ut (d)	10203500	—	1914-19
Sevier River near Richfield, Ut (d)	10204000	—	1916-18
Mill Creek near Glenwood, Ut (d)	10204200	18.9	1963-74
Rockyford Canal near Vermilion, Ut (d)	10204500	—	1914-35
Sheep Creek near Salina, Ut (d)	10205100	0.30	1958-69
West Fork Sheep Creek near Salina, Ut (d)	10205200	0.43	1958-69
Sheep Creek at mouth near Salina, Ut (d)	10205300	1.47	1958-69
Salina Creek at Salina, Ut (d)	10206000	292	1914-16 1918-19 1943-55 1960-95
Sevier River below Salina Creek near Salina, Ut (d)	10206001	—	1985-86

XXVIII WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
SEVIER LAKE BASIN—Continued			
West View Canal at Redmond, Ut (d)	10206500	—	1914-19
Fayette Canal near Centerfield, Ut (d)	10207000	—	1914-19
Dover Canal near Gunnison, Ut (d)	10207500	—	1914-19
Sevier River near Gunnison, Ut (d)	10208000	a3,990	1901-17
Oak Creek near Fairview, Ut (d)	10208500	11.8	1965-89
Pleasant Creek near Mount Pleasant, Ut (d)	10210000	—	1955-75
Twin Creek near Mount Pleasant, Ut (d)	10211000	a5.9	1955-66
San Pitch River near Mount Pleasant, Ut (d)	10210500	170	1988-89
Big Hollow at Fountain Green, Ut (d)	10215500	—	1965-68
Oak Creek near Spring City, Ut (d)	10215700	8.35	1964-74
			1979-94
Gunnison Reservoir near Sterling, Ut (e)	10216200	a670	1966-83
San Pitch River near Sterling, Ut (d)	10216210	672	1965-80
Twelvemile Creek near Mayfield, Ut (d)	10216400	59.4	1960-80
San Pitch River near Gunnison, Ut (d)	10216500	886	1900-05
			1912-18
			1952
Sevier River at Clark's Bridge near Fayette, Ut (d)	10217500	a4,960	1914-16
Sevier Bridge Reservoir, near Juab, Ut (e)	10218500	5,155	1914-95
Wellington Canal near Mills, Ut (d)	10219100	—	1914-18
Chicken Creek near Levan, Ut (d)	10219200	27.9	1963-95
Sevier River near Mills, Ut (d)	10220000	a5,800	1914-17
Sevier River Land and Water Co. Canal near Leamington, Ut (d)	10220500	—	1914-19
McIntyre Canal near Leamington, Ut (d)	10222500	—	1914-18
Leamington Canal near Leamington, Ut (d)	10223000	—	1914-19
Sevier River at Leamington, Ut (d)	10223500	a5,860	1889-93
			1912-14
Oak Creek below big Spring near Oak City, Ut (d)	10224300	17.8	1979-86
Delta and Melville Reservoir near Delta, Ut (e)	10224500	—	1914-17
Canal A (Delta and Melville Canal) near Delta, Ut (d)	10225000	—	1912-19
Sevier River near Delta, Ut (d)	10228000	a7,380	1912-19
Gunnison Bend Reservoir near Delta, Ut (e)	10228500	—	1914-19
Sevier River at Oasis, Ut (d)	10231500	a8,080	1912-27
Chalk Creek near Fillmore, Ut (d)	10232500	58.7	1914
			1945-71
Meadow Creek near Meadow, Ut (d)	10233000	11.6	1914
			1965-75
Corn Creek near Kanosh, Ut (d)	10233500	—	1914
			1965-75
Three Creeks near Beaver, Ut (d)	10234000	19.5	1947-61
South Creek near Beaver, Ut (d)	10235000	14.7	1906
			1965-76
North Fork North Creek above Pole Creek near Beaver, Ut (d)	10235500	a6.9	1947-49
North Fork North Creek near Beaver, Ut (d)	10236000	14.1	1906
			1966-76
South Fork North Creek near Beaver, Ut (d)	10236500	23.0	1906
			1966-76
Indian Creek near Beaver, Ut (d)	10237500	18.5	1906
			1947-49
			1965-76
Indian Creek at Adamsville, Ut (d)	10238000	a180	1914-16
Minersville Reservoir near Minersville, Ut (e)	10238500	534	1915-22
			1938-95
Minersville Canal at Minersville, Ut (d)	10239500	—	1906
			1914
			1951-55

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 XXIX
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
SEVIER LAKE BASIN--Continued			
Beaver River at Minersville, Ut (d)	10240000	a560	1909-13 1951-55
Beaver River near Milford, Ut (d)	10241000	a1,100	1952-55
PAROWAN VALLEY			
Little Creek near Paragonah, Ut (d)	10241400	15.8	1960-80
Red Creek near Paragonah, Ut (d)	10241430	a6.3	1965-75
Center Creek above Parowan Creek near Parowan, Ut (d)	10241470	11.6	1965-87
Center Creek near Parowan, Ut (d)	10241500	a60	1943-50
Summit Creek near Summit, Ut (d)	10241600	24.0	1965-87
CEDAR VALLEY, IRON COUNTY			
Ashdown Creek near Cedar City, Ut (d)	10241800	13.1	1958-61
Grassy Creek near Enterprise, Ut (d)	10242430	a2.5	1965-68
SNAKE VALLEY			
Snake Creek near Baker, Nv (d)	10243230	a30	1913-15
Baker Creek at Narrows near Baker, Nv (d)	10243240	16.4	1947-55
Baker Creek near Baker, Nv (d)	10243250	a10	1913-15
Lehman Creek near Baker, Nv (d)	10243260	a11	1947-55
George Creek near Yost, Ut (d)	13077700	7.84	1959-89
Clear Creek near Naf, Id (d)	13079000	20.2	1910-11 1944-70

Explanation:

a: approximate

q: includes 255 sq mi in closed basin in Cedar Valley

DS: downstream

US: upstream

XXX WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER-QUALITY STATIONS

The following continuous-record surface-water gaging stations in Utah and parts of surrounding states have been discontinued. Daily streamflow (d) and reservoir elevation (e) records were collected and published for the period of record, expressed in water years. Discontinued project stations with less than 2 years of data have not been included. Stations shown in bold were discontinued at end of previous water year. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
COLORADO RIVER BASIN				
Cottonwood Wash at I-70 near Cisco, Ut	09163675	170	c,s,t	1983-86
TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER				
Onion Creek above Onion Creek Bridge near Moab, Ut	09180920	—	c,t	1980-81
Onion Creek below Onion Creek Bridge near Moab, Ut	09180970	—	c,t	1980-81
Castle Creek above diversions, near Moab, Ut	09182000	7.58	c,t	1971-75
Courthouse Wash near Moab, Ut	09183000	162	c,t	1971-89
Indian Creek Tunnel near Monticello, Ut	09185800	—	c,t	1971-80
Indian Creek below Bogus Pocket near Monticello, Ut	09187550	262	c,s,t	1983-88
GREEN RIVER BASIN				
East Fork Beaver Creek near Lonetree, Wy	09227000	a8.2	c,s,t	1977
Sheep Creek Upper Canal near Manila, Ut	09231000	—	c	1976
Red Creek near Dutch John, Ut	09234700	140	c,s,t	1971-76
Crouse Creek near Vernal, Ut	09235100	30.2	c,t	1987-90
Pot Creek near Vernal, Ut	09235800	107	c,t	1971-82
ASHLEY CREEK BASIN				
Brush Creek above cave near Vernal, Ut	09261500	a23	c,t	1950-73
Big Brush Creek near Vernal, Ut	09262000	79.6	c,t	1908-81
Little Brush Creek near Vernal, Ut	09263000	a28	c	1950
Brush Creek near Jensen, Ut	09263500	255	c	1988-89
Oaks Park Canal near Vernal, Ut	09265000	—	c	1957
Ashley Creek above Red Pine Creek near Vernal, Ut	09265300	55.8	c,t	1971-75
Dry Fork above sinks, near Dry Fork, Ut	09268000	44.4	c,t	1954-75
North Fork of Dry Fork near Dry Fork, Ut	09268500	8.62	c,t	1955-89
Brownie Canyon above sinks, near Dry Fork, Ut	09268900	8.24	c,t	1971-89
East Fork of Dry Fork at mouth near Dry Fork	09269500	a18	c,t	1954
Dry Fork below springs near Dry Fork, Ut	09270000	97.4	c,t	1947-58
Dry Fork at mouth near Dry Fork, Ut	09270500	116	c,t	1954-89
Ashley Creek at Sign of the Maine, near Vernal, Ut	09271000	241	c,t	1947 1949 1955-58 1973-74
Highline Canal below Mantle Gulch near Jensen, Ut	09271070	—	c,t	1971-72
River Irrigation Company Canal near Jensen, Ut	09271470	—	c,t	1971-72
Ashley Creek near Jensen, Ut	09271500	383	c,t	1947-51 1954-58 1971-83 1986-89
Stewart Lake Outflow near Jensen, Ut	09271600	—	c,t	1986-97
DUCHESNE RIVER BASIN				
Duchesne Tunnel near Kamas, Ut	09272500	—	c,t	1972
Duchesne River at Provo River Trail near Hanna, Ut	09273000	a39	c	1954 1957 1956-57
Hades Creek near Hanna, Ut	09273500	a75	c	1951
Duchesne River (North Fork) near Hanna, Ut	09274000	a78	c,t	1960-62 1988

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 XXXI
DISCONTINUED SURFACE-WATER-QUALITY STATIONS

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
DUCHESNE RIVER BASIN—Continued				
West Fork Duchesne River below Dry Hollow near Hanna, Ut	09275000	43.8	c,t	1957 1960 1964 1974-81
Wolf Creek above Rhoades Canyon near Hanna, Ut	09276000	10.6	c,t	1951 1956-57 1962 1971-83
Duchesne River at Hanna, Ut	09277000	a230	c,t	1957-64 1973
Rock Creek near Hanna, Ut	09278500	122	c,t	1957 1974-83 1987-88
Rock Creek below Miners Gulch near Hanna, Ut	09278700	133	c,t	1974-81
Rock Creek near Talmage, Ut	09291000	238	c,t	1947-48 1963-65 1971-91
Duchesne River at Duchesne, Ut	09279500	a660	c,t	1941-43 1946-74
Hobble Creek at Daniels Summit near Wallsburg, Ut	09280400	2.89	c,t	1971-83
Strawberry Reservoir near Soldier Springs, Ut	09282500	170	c	1949 1957-58
Willow Creek near Soldier Springs, Ut	09285500	a44	t	1990
Strawberry River above Red Creek near Fruitland, Ut	09285700	363	c,t	1941 1971-81
Red Creek near Fruitland, Ut	09286500	a89	c	1941 1947-49 1957-58
Currant Creek below Red Ledge Hollow near Fruitland, Ut	09287000	50.1	c,t	1951 1956-57 1962-64 1971-83
Water Hollow near Fruitland, Ut	09287500	a14	c,t	1956-57 1960-64 1971-83
Red Creek below Currant Creek near Fruitland, Ut	09288100	297	c,t	1971-81
West Fork Avintaquin Creek near Fruitland, Ut	09288150	56.1	c,t	1971-83
Strawberry River at Duchesne (Theodore), Ut	09288500	1,066	c,t	1941 1946-50 1954-58 1962-68 1973-74
Sowers Creek near Duchesne, Ut	09288900	40.6	c,t	1971-83
Antelope Creek near Myton, Ut	09289000	a198	c	1941 1949
Lake Fork River below Taskeech Damsite near Mt Home, Ut	09291200	138	c,t	1977-83
Yellowstone River at mouth near Altonah, Ut	09293000	142	c,t	1977-81
Lake Fork River (below Forks) near Altonah, Ut	09293500	304	c,t	1949 1977-81
Lake Fork River at Hwy 87 near Altamont, Ut	09293600	318	c,t	1977-81
Pigeon Water Creek near Altamont, Ut	09293700	95.5	c,t	1977-78
Lake Fork River near Upalco, Ut	09294000	427	c,t	1941 1957-58 1964-65 1973 1977-81

XXXII WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER-QUALITY STATIONS

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
DUCHESNE RIVER BASIN—Continued				
Lake Fork (Creek) near Myton, Ut	09294500	484	c,t	1941 1947-48 1951 1973 1977-81
Uinta River near Neola, Ut	09297000	163	c,t	1941 1957-58 1963-83
Uinta River near Whiterocks, Ut	09297500	218	c	1849
West Channel Uinta Riv blw diversion works nr Whiterocks, Ut	09297600	216	c,t	1977-81
East Channel Uinta Riv blw diversion works near Whiterocks, Ut	09297700	215	c,t	1977-81
East Channel Uinta Riv at County Road Bridge nr Whiterocks, Ut	09297800	253	c,t	1977-81
East Channel Uinta Riv at LaPoint Road near LaPoint, Ut	09297900	382	c,t	1977-82
Farm Creek near Whiterocks, Ut	09298000	14.9	c,t	1971-81
Whiterocks River below damsite near Whiterocks, Ut	09299400	110	c,t	1977-81
Whiterocks River below Farm Creek Canal near Whiterocks, Ut	09299600	120	c,t	1977-81
Whiterocks River 1 Mile East of Whiterocks, Ut	09299700	124	c,t	1977-81
Deep Creek at State Hwy 246 near LaPoint, Ut	09299900	72.2	c,t	1977-79
Uinta River at Fort Duchesne, Ut	09300500	557	c,t	1941 1947-51 1954-59 1965-70 1973 1977-81
Dry Gulch near Neola, Ut	09301000	a67	c	1958 1963-64
Dry Gulch near Fort Duchesne, Ut	09301200	469	c,t	1977-81
Uinta River at Randlett, Ut	09301500	1,064	c,s,t	1950 1963 1977-81
WHITE RIVER BASIN				
White River near Colorado State Line, Ut	09306395	3,680	c,s,t	1976-85
White River above Hells Hole Canyon near Watson, Ut	09306400	a3,700	c,s,t	1974-76
Hells Hole Canyon Creek at mouth near Watson, Ut	09306405	24.5	c,s,t	1975-76 1979-82
Evacuation Creek above Missouri Creek near Dragon, Ut	09306410	100	c,s,t	1974-83
Evacuation Creek below Park Canyon near Watson, Ut	09306415	246	c,s,t	1974-75
Evacuation Creek at Watson, Ut	09306420	259	c,s,t	1948 1974-77
Evacuation Creek near mouth near Watson, Ut	09306430	284	c,s,t	1974-83
White River below Southam Canyon near Watson, Ut	09306600	a4,030	c,s,t	1974-76
Southam Canyon Wash near Watson, Ut	09306605	2.5	c,s,t	1976
Southam Canyon Wash at mouth near Watson, Ut	09306610	8.3	c,s,t	1976 1979-82
Asphalt Wash below Center Fork near Watson, Ut	09306620	94.4	c,s,t	1976
Asphalt Wash near mouth near Watson, Ut	09306625	97.5	c,s,t	1975-76 1979-81
White River below Asphalt Wash near Watson, Ut	09306700	a4,130	c,s,t	1974-78 1981-83
Bitter Creek above Dick Canyon near Watson, Ut	09306740	11.7	c,s,t	1974-78
Sweetwater Canyon below South Canyon near Watson, Ut	09306760	22.6	c,s,t	1974-78
Sweetwater Canyon Creek near mouth near Watson, Ut	09306780	124	c,s,t	1975-78
Bitter Creek near Bonanza, Ut	09306800	324	c,s,t	1971-83 1987-88
Bitter Creek at mouth near Bonanza, Ut	09306850	398	c,s,t	1974-83

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 XXXIII
DISCONTINUED SURFACE-WATER-QUALITY STATIONS

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
WHITE RIVER BASIN—Continued				
Sand Wash near Ouray, Ut	09306870	59.7	c,t	1976 1979 1980
Sand Wash at mouth near Ouray, Ut	09306872	71.1	c,s,t	1978-80
Coyote Wash near mouth near Ouray, Ut	09306878	228	c,s,t	1976-83
North Wash near Ouray, Ut	09306880	11.0	c,t	1980-81
Cottonwood Wash near mouth near Ouray, Ut	09306885	70.6	c,s,t	1977-81
White River at mouth near Ouray, Ut	09306900	5,120	b,c,s,t	1974-86
TRIBUTARIES BETWEEN DUCHESNE RIVER AND PRICE RIVER				
Green River near Ouray, Ut	09307000	a35,500	c,s,t	1950-52 1958-66
Pariette Draw near Ouray, Ut	09307200	153	c,s,t	1975-84
Pariette Draw at mouth near Ouray, Ut	09307300	298	c,s,t	1975-84 1987-91
TRIBUTARIES BETWEEN DUCHESNE RIVER AND PRICE RIVER—Continued				
Willow Creek above diversions near Ouray, Ut	09307500	297	c,s,t	1969-70 1974-83
Hill Creek above Towave Reservoir near Ouray, Ut	09307800	89.7	c,s,t	1974-81
Hill Creek near mouth near Ouray, Ut	09307900	288	c,s,t	1975-81
Willow Creek near Ouray, Ut	09308000	897	c,s,t	1950-55 1974-83
Minnie Maud Creek near Myton, Ut	09308500	32.0	c,t	1971-83 1987-89
PRICE RIVER BASIN				
Fairview Ditch near Fairview, Ut	09309500	—	c	1958
Gooseberry Creek near Fairview, Ut	09309800	a7.51	c,t	1969-70
Boardinghouse Creek at mouth near Scofield	09310575	2.04	c,s,t	1982-84
Eccles Canyon near Scofield, Ut	09310600	5.5	b,c,s,t	1979-84
Price River near Scofield, Ut	09311500	a155	c,t	1962 1969-70 1979-80
White River near Soldier Summit, Ut	09312500	52.8	c,t	1947 1957-58 1969 1979
Beaver Creek near Soldier Summit, Ut	09312700	26.1	c,t	1969-83 1987-89
Willow Creek near Castle Gate, Ut	09312800	62.8	c,t	1969-83 1987-89
Willow Creek at Castle Gate, Ut	09312900	77.4	b,c,s,t	1979-81
Spring Canyon below Sowbelly Gulch at Helper, Ut	09313040	23.0	c,s,t	1978-81
Price River near Helper, Ut	09313500	a530	c,t	1970
Coal Creek near Helper, Ut	09313965	25.3	b,c,s,t	1976-81
Soldier Creek below Mine near Wellington, Ut	09313975	17.7	b,c,s,t	1969 1976-84
Dugout Creek near Sunnyside, Ut	09313985	5.8	b,c,s,t	1979-81
Price River below Miller Creek near Wellington, Ut	09314250	956	c,t	1969-83
Desert Seep Wash near Wellington, Ut	09314280	191	c,t	1969 1972-83
Grassy Trail Creek at Sunnyside, Ut	09314340	40.1	b,c,s,t	1975-84
Horse Canyon near Sunnyside, Ut	09314374	12.5	b,c,s,t	1975-81

XXXIV WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER-QUALITY STATIONS

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
TRIBUTARIES BETWEEN PRICE RIVER AND SAN RAFAEL RIVER				
Saleratus Wash at Green River, Ut	09315500	a180	c	1947-48 1957
Browns Wash near Green River, Ut	09316000	a75	c	1948 1957
Floy Wash near Green River, Ut	09316100	56.6	c,s,t	1983-86
Candland Ditch near Mt Pleasant, Ut	09317500	—	c	1958
Crandall Canyon at mouth near Huntington, Ut	09317919	5.7	b,c,s,t	1976-84
Tie Fork Canyon near Huntington, Ut	09317920	11.7	b,c,s,t	1978-81
Huntington Creek near Huntington, Ut	09318000	187	b,c,s,t	1949 1956-79
Larsen Tunnel near Ephraim, Ut	09320500	—	b	1978
Seely Creek near Orangeville, Ut	09324000	a150	c,t	1956-58 1975
Cottonwood Creek above Straight Canyon near Orangeville, Ut	09324200	21.9	b,c,s,t	1978-81
Cottonwood Creek near Orangeville, Ut	09324500	208	c,s,t	1946 1956-83
Cottonwood Creek near Castle Dale, Ut	09325000	26	c,t	1948 1958-62
San Rafael River Above Ferron Creek near Castle Dale, Ut	09325100	a680	c,t	1975-78 1964-65 1968
Ferron Creek near Castle Dale, Ut	09327500	a210	c,t	1977-1978 1960-68 1974-78
San Rafael River near Castle Dale, Ut	09328000	930	c,t	1948 1957-68
San Rafael River at San Rafael Bridge Campground, near Castle Dale, Ut	09328100	1,28	c,s,t	1975-83
DIRTY DEVIL RIVER BASIN				
Fremont River near Fremont, Ut	09329500	205	c,t	1975-76
Pine Creek near Bicknell, Ut	09329900	104	c,t	1971-80
Pleasant Creek near Caineville Ut	09330210	115	c,s,t	1969-72 1975-76
Bull Creek near Hanksville, Ut	09330410	7.53	c,s	1983-91
Ivie Creek above diversions near Emery, Ut	09331500	a50	c,t	1975-76
Convulsion Canyon near Emery, Ut	09331850	21.6	c,s,t	1980-84
Quitcupah Creek near Emery, Ut	09331900	104	b,c,s,t	1978-81
Christiansen Wash near Emery, Ut	09331950	13.6	b,c,s,t	1978-84
Muddy Creek below I-70 near Emery, Ut	09332100	418	c,s,t	1973-87
Muddy Creek at Delta Mine near Hanksville, Ut	09332700	841	c,s,t	1975-85
Muddy Creek at mouth near Hanksville, Ut	09332800	1,552	c,s,t	1975-80
Dirty Devil River near Hanksville, Ut	09333000	a3,490	c,t	1975-76
Colorado River at Hite, Ut	09335000	a76,600	c,s	1950-56
ESCALANTE RIVER BASIN				
East Fork Boulder Creek near Boulder, Ut	09338000	21.4	c,t	1971-72
Escalante River at mouth near Escalante, Ut	09339500	a1,770	c	1951-53
SAN JUAN RIVER BASIN				
McElmo Creek near Bluff, Ut	09372200		c,t	1978-82
Spring Creek above diversions near Monticello, Ut	09376900	4.95	c,t	1971-72
North Creek above Ranger Station near Monticello, Ut	09378100	8.68	c,t	1980-83
Montezuma Creek near Bluff, Ut	09378600	1,154	c	1985-93
Cottonwood Wash near Blanding, Ut	09378700	205	c,s,t	1968-83

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 XXXV
DISCONTINUED SURFACE-WATER-QUALITY STATIONS

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
COLORADO RIVER TRIBUTARIES BELOW GLEN CANYON DAM				
Mill Creek above study area near Glendale, Ut	09403620	4.81	c,t	1975-77
Thompson Creek below study area near Glendale, Ut	09403660	16.6	c,t	1976-77
VIRGIN RIVER BASIN				
North Fork Virgin River near Glendale, Ut	09405400	5.65	c,t	1973-78
North Fork Virgin River below Bulloch Canyon near Glendale, Ut	09405420	29.6	c,s,t	1974
				1983-86
North Fork Virgin River above Zion Narrows near Glendale, Ut	09405450	45.5	c,s,t	1979
				1983-86
LaVerkin Creek near LaVerkin, Ut	09406150	91.3	c,t	1987-91
Kanarra Creek at Kanarraville, Ut	09406300	9.85	c,t	1971-82
South Ash Creek below Mill Creek near Pintura, Ut	09406700	11.0	c,t	1971-82
Ash Creek above Toquerville, Ut	09407000	201	c,t	1987-91
West Field Ditch at Toquerville, Ut	09407150		c,t	1973-78
Ash Creek below West Field Ditch at Toquerville, Ut	09407200	201	c,t	1973-82
Virgin River above Quail Creek near Hurricane, Ut	09408135	1,381	t	1992-93
Virgin River near Hurricane, Ut	09408150	1,499	c,s,t	1967-93
Santa Clara-Pinto Diversion near Pinto, Ut	09408500	—	c,t	1973-76
				1978-91
Santa Clara River above Winsor Dam near Santa Clara, Ut	09410000	338	c,s,t	1962-72
Santa Clara River near Santa Clara, Ut	09410400	410	c,t	1971-74
Virgin River near St. George, Ut	09413500	3,961	c,s,t	1966-73
THE GREAT BASIN				
Great Salt Lake at AIC near Syracuse, Ut	10010300	—	c,t	1972
BEAR RIVER BASIN				
East Fork Bear River near Evanston, Wy	10010400	34.6	c,t	1973-83
Hilliard East Fork Canal near State Line near Evanston, Wy	10010500	—	c,t	1967
				1973-79
West Fork Bear River at Whitney Dam, near Oakley, Ut	10011200	a7.5	c,t	1965-67
				1973-83
West Fork Bear River below Deer Creek near Evanston, Wy	10011400	52.2	c,t	1973-83
Mill Creek at Utah-Wyoming State Line	10012000	a59	c,t	1961
Sulphur Creek below Reservoir near Evanston, Wy	10015900	69.2	c,t	1958-92
Yellow Creek near Evanston Wy	10017000	a80	c,t	1958
				1961
				1968
				1972-78
Bear River near Evanston, Wy	10019000	715	c,t	1967-68
Chapman Canal at State Line near Evanston, Wy	10019500	—	c,t	1957
				1967-68
				1972-83
Bear River near Woodruff, Ut	10020500	a870	c,t	1957-58
				1961
Woodruff Creek below reservoir near Woodruff, Ut	10020900	50.0	c,t	1972-83
Woodruff Creek near Woodruff, Ut	10021000	a65	c,t	1961
				1967-68
				1972-75
Bear River near Randolph, Ut	10026500	1,616	c,t	1943-92
Rock Creek near Fossil, Wy	10026800	49.0	c,t	1961
Bear River below Pixley Dam near Cokeville, Wy	10028500	2,03	c,t	1958
				1965-68
				1973-83
				1988-91
Muddy Creek above Mill Creek near Cokeville, Wy	10032700	20.7	c,t	1967-68
Mill Creek near Cokeville, Wy	10032800	8.07	c,t	1967-68

XXXVI WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER-QUALITY STATIONS

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
BEAR RIVER BASIN—Continued				
Smiths Fork at Cokeville, Wy	10035000	275	c,t	1984-85
Bear River at Border, Wy	10039500	2,486	c,s	1966-93
Thomas Fork near Wyoming-Idaho state line	10041000	113	c,t	1949-92
Bear River at Harer, Id	10044000	2,839	c,t	1967-68
St. Charles Creek above Diversions near St. Charles, Id	10054600	17.4	c,t	1967-68
Bloomington Creek at Bloomington, Id	10058600	24.0	c,t	1961
				1967-68
				1973-83
Bear River at Pescadero, Id	10068500	3,705	c,t	1967-68
				1972-91
Eightmile Creek near Soda Springs, Id	10072800	22.6	c,t	1961
				1965-68
				1973-83
Bear River at Soda Springs, Id	10075000	3,972	c,t	1965-68
				1972-83
Cottonwood Creek near Cleveland, Id	10084500	61.7	c,t	1961
				1967-68
				1972-83
Mink Creek below Dry Fork near Mink Creek, Id	10087500	19.3	c,t	1961
Bear River near Preston (at Battlecreek), Id	10090500	4,545	c,t	1947
				1953
				1961
				1965-68
				1973-83
Deep Creek near Clifton, Id	10091200	107	c,t	1967-68
				1972-78
Cub River near Preston, Id	10093000	19.4	c,t	1958-61
				1967-68
				1972-83
East Branch Cub River Canal near Lewiston, Ut	10095900	—	c,t	1967-68
High Creek near Richmond, Ut	10099000	16.2	c,t	1978-83
				1987-89
Cub River near Richmond, Ut	10102200	a200	c,t	1959
				1967-68
Bear River near Smithfield, Ut	10102250	5,193	c,t	1964-68
				1973-78
				1991
Summit Creek above diversions near Smithfield, Ut	10102300	11.6	c,t	1967-68
				1972-79
South Fork Little Bear River near Avon, Ut	10104600	26.0	c,t	1967-68
				1972-74
Little Bear River below Davenport Creek near Avon, Ut	10104700	61.5	s	1986-91
East Fork Little Bear River above Reservoir near Avon, Ut	10104900	56.7	c,t	1967-68
				1972-83
Little Bear River near Paradise, Ut	10106000	203	c,t	1947
				1961
				1967-68
				1972-83
Little Bear River near Hyrum, Ut	10107500	222	c,t	1961
				1967-68
Little Bear River at Wellsville, Ut	10107600	245	c,t	1967-68
Blacksmiths Fork above Utah Power & Light Co.'s Dam near Hyrum, Ut	10113500	263	c,t	1961
				1966-68
				1973-91
Logan River below Blacksmith Fork near Logan, Ut	10115200	524	c,t	1964-68
				1972-80

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 XXXVII
DISCONTINUED SURFACE-WATER-QUALITY STATIONS

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
BEAR RIVER BASIN—Continued				
Blacksmith Fork below Mill Creek, near Hyrum, Ut	10111700	78	c,t	1965-69 1985-92
West Canal above Salt Creek diversion near Tremonton, Ut	10117510	—	c,t	1979-83
West Canal below Salt Creek diversion near Tremonton, Ut	10117530	—	c,t	1979-83
Deep Creek below First Creek near Malad City, Id	10125000	a32	c,t	1967
Malad River near Plymouth, Ut	10125600	a632	c,t	1964-65 1968 1972-80
Bear River Duck Club near Bear River City, Ut	10125700	—	c,t	1967-68
Malad River blw Bear River Duck Club Canal near Bear River City, Ut	10125800	a698	c,t	1965-68
Bear River near Corinne, Ut	10126000	7,029	c,t	1973-94
TRIBUTARIES TO GREAT SALT LAKE BETWEEN BEAR RIVER AND WEBER RIVER				
Sulphur Creek near Corinne, Ut	10126180	15.4	c,t	1963-64 1972-83
Salt Creek below Salt Spring near Tremonton, Ut	10127050	—	c,t	1979-83
Black Slough near Brigham City, Ut	10127100	31.1	c,t	1973-83
WEBER RIVER BASIN				
Smith and Morehouse Creek near Oakley, Ut	10128000	33.8	c,t	1975-83 1987
South Fork Weber River near Oakley, Ut	10128200	a16	c,t	1971-74
Weber River near Peoa, Ut	10129300	296	c,t	1971-77
Crandall Creek near Peoa, Ut	10129350	11.8	c,t	1971-73
Silver Creek near Wanship, Ut	10130000	27.9	c,t	1983-84 1991-92
East Fork Chalk Creek near Coalville, Ut	10130700	a35	c,t	1972-74
Kimball Creek above East Canyon Creek near Park City, Ut	10133540	12.2	c,t	1990-92
McLeod Creek near Park City, Ut	10133600	8.78	c,t	1991,1995
Threemile Creek near Park City, Ut	10133700	2.68	c,t	1971-74 1983
East Canyon Creek near Big Bear Hollow, near Park City, Ut	10133895	75.0	c,t	1990-92
East Canyon Creek near Park City, Ut	10133900	68.9	c,t	1983
North Fork Ogden River near Eden, Ut	10137680	6.03	c,t	1971-74
Middle Fork Ogden River above diversion near Huntsville, Ut	10137780	31.3	c,t	1971-74
Wheeler Creek near Huntsville, Ut	10139300	11.1	c,t	1971-75 1977-91
Ogden River near Ogden, Ut	10139500	321	c,t	1988
Hooper Slough near Hooper, Ut	10141040	13.0	c,t	1975 1979-83
Weber River near Plain City, Ut	10141000	2,081	c,s	1974-93
South Fork Weber Canal near Hooper, Ut	10141050	—	c,t	1972-75
South Fork Weber River near Hooper, Ut	10141100	—	c,t	1972-75
North Fork Weber River near Hooper, Ut	10141200	—	c,t	1972-76
TRIBUTARIES TO GREAT SALT LAKE BETWEEN WEBER RIVER AND JORDAN RIVER				
Howard Slough at Hooper, Ut	10141400	—	c,s,t	1972-84
Farmington Creek above diversion near Farmington, Ut	10142000	10.0	c,t	1978-81
JORDAN RIVER BASIN				
Salt Creek at Nephi, Ut	10146000	95.6	c,t	1971-80 1988
Tie Fork near Soldier Summit, Ut	10148200	19.4	c,t	1928, 1971-91
Nebo Creek near Thistle, Ut	10148400	36.7	c,t	1971-73
Spanish Fork at Thistle, Ut	10148500	450	c,t	1971-74
Spanish Fork below Halls Falls near Thistle, Ut	10148510	452	c,t	1983-92

XXXVIII WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER-QUALITY STATIONS

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
JORDAN RIVER BASIN—Continued				
Spanish Fork near Lakeshore, Ut	10152000	675	b,c,t	1971-83 1988
Hobble Creek near Springville, Ut	10152500	105	c,t	1971-74
Maple Creek near Mapleton, Ut	10152700	3.13	c,t	1971-72
Provo River near Kamas, Ut	10153500	29.6	c,t	1972
North Fork Provo River near Kamas, Ut	10153800	24.4	c,t	1971-91
Shingle Creek near Kamas, Ut	10154000	a8.4	c,t	1971-73
North Fork Provo River at Wildwood, Ut	10160800	12.3	c,t	1971-74
Dry Creek near Alpine, Ut	10165500	9.82	c,t	1971 1980-81
Jordan River at Narrows near Lehi, Ut	10167000	3,010	c,t	1987-91
Jordan River Station No. 1 at Narrows, Ut	10167001	—	c,s,t	1980-83
East Jordan Canal at Little Cottonwood Creek near Sandy, Ut	10167105	—	c	1980
East Jordan Canal at pumphouse at 6200 So near Murray, Ut	10167115	—	c,s,t	1980-81
Upper Canal at 5800 South (Tolcate Ln) near Murray, Ut	10167122	—	c,t	1980
Upper Canal at Wild Rose Ln near Salt Lake City, Ut	10167125	—	c,s,t	1980-81
Jordan & Salt Lake Canal at Little Cottonwood Creek nr SLC, Ut	10167141	—	c,t	1980-81
Jordan & Salt Lake Canal at Zenith Ave near Salt Lake City, Ut	10167149	—	c,s,t	1980
Jordan River at 9400 South near South Jordan, Ut	10167200	3,130	c,s,t	1965-68
Bells Canyon Conduit 1000 East 110000 South	10167220	—	c,s,t	1981-82
Jordan River at 90th South near Midvale, Ut	10167230	a3,130	c,s,t	1980-83 1986-89
90th South Conduit at Jordan River near Midvale, Ut	10167240	—	b,c,s,t	1980-82
Jordan River at 5800 South near SLC, Ut	10167300	3,254	b,c,s,t	1965-68 1974-83
Little Cottonwood Creek (channel) near SLC, Ut	10167499	—	c,s,t	1979-88
Little Cottonwood Creek at 2050 East near SLC, Ut	10167700	35.2	c,t	1973-75 1980
Little Cottonwood Creek at Jordan River near SLC, Ut	10168000	—	c,s,	1979-82 1987-88
Big Cottonwood Creek (Cottonwood Creek) near SLC, Ut	10168500	50.0	c,s,t	1964-70
Big Cottonwood Creek at 5550 South near SLC, Ut	10168800	57.3	c,s,t	1964 1980-89
Neffs Creek above Wasatch Boulevard near SLC, Ut	10168832	—	c,s,t	1981
Big Cottonwood Creek at Jordan River near SLC, Ut	10169500	—	b,c,s,t	1980-81
Mill Creek near Salt Lake City, Ut	10170000	21.7	b,c,s,t	1964-68 1979
Mill Creek at Jordan River near SLC, Ut	10170250	a32	b,c,st	1979-82
Jordan River at Salt Lake City, Ut	10171000	3,438	b,c	1974-94
Parleys Creek at Suicide Rock near SLC, Ut	10171600	50.7	b,c,s,t	1964-68 1979-81
Emigration Creek near Salt Lake City, Ut	10172000	18.4	b,c,s,t	1964-68 1980-81
Red Butte Creek at Ft. Douglas, near SLC, Ut	10172200	7.25	b,c,s,t	1965-95
Red Butte Creek below reservoir near SLC, Ut	10172220	7.95	c,t	1980-81
1300 South Conduits at Jordan River, combined flows	10172350	—	b	1981
City Creek above Wasatch Drive, near SLC, Ut	10172400	17.0	c,s,t	1964-68
Jordan River at 5th North at SLC, Ut	10172550	—	b,c,s,t	1968-70 1975 1980-84
Jordan River at Cudahy Lane near SLC, Ut	10172600	q3,590	b,c,t	1963 1973-79
Goggin Drain near Magna, Ut	10172630	—	c,t	1964-66 1972-84
Lee Creek near Magna, Ut	10172640	—	c,t	1972-82
Kennecott Drain near Magna, Ut	10172650	—	c,s,t	1962-66 1972-84
North Willow Creek near Grantsville, Ut	10172805	5.38	c,t	1979-92

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 XXXIX
DISCONTINUED SURFACE-WATER-QUALITY STATIONS

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
GREAT SALT LAKE DESERT				
Great Salt Lake West Pond near Wendover, Ut	10172903	—	c,t	1988-90
West Locomotive Spring at Locomotive Spring near Snowville, Ut	10172963	—	c,t	1973-75
Baker Spring at Locomotive Spring near Snowville, Ut	10172964	—	c,t	1969-70
				1973-75
Bar M Spring at Locomotive Spring near Snowville, Ut	10172965	—	c,t	1969-70
				1973-80
East Jordan Canal at Little Cottonwood Creek near Sandy, Ut	10167105	—	c	1980
East Jordan Canal at pumphouse at 6200 So near Murray, Ut	10167115	—	c,s,t	1980-81
Upper Canal at 5800 South (Tolcate Ln) near Murray, Ut	10167122	—	c,t	1980
Trout Creek near Callao, Ut	10172870	8.19	c,t	1971-91
Off Spring at Locomotive Spring near Snowville, Ut	10172967	—	c,t	1969-70
				1973-80
Sparks Spring at Locomotive Spring near Snowville, Ut	10172968	—	c,t	1969-70
				1973-80
SEVIER LAKE BASIN				
Midway Creek near Hatch, Ut	10173600	25.7	c	1974
Sevier River at Hatch, Ut	10174500	340	c,s,t	1985-92
Panguitch Creek near Panguitch, Ut	10176300	97.0	c,t	1971-80
Sevier River near Circleville, Ut	10180000	986	c,t	1971-91
East Fork Sevier River near Ruby's Inn, Ut	10183900	71.6	c,t	1971-91
Antimony Creek near Antimony, Ut	10185000	50.3	c,t	1971-76
Otter Creek near Koosharem, Ut	10187300	23.5	c,t	1971-82
Otter Creek above Reservoir near Antimony, Ut	10187500	322	c,t	1971-80
Clear Creek at Sevier, Ut	10195000	169	c,t	1988-89
Mill Creek near Glenwood, Ut	10204200	18.9	c,t	1973
Sheep Creek near Salina, Ut	10205100	0.30	c	1985
Salina Creek at Salina, Ut	10206000	51.8	c,t	1971-91
Oak Creek near Fairview, Ut	10208500	11.8	c,t	1971-89
Pleasant Creek near Mount Pleasant, Ut	10210000	—	c,t	1971-75
San Pitch River near Sterling, Ut	10216210	672	c,t	1971-80
Twelvemile Creek near Mayfield, Ut	10216400	59.4	c,t	1971-80
Chicken Creek near Levan, Ut	10219200	27.9	c,t	1971-94t
Sevier River near Lynndyl, Ut	10224000	5,966	b,c,t	1951-94
Oak Creek below big Spring near Oak City, Ut	10224300	17.8	c,t	1979-83
Chalk Creek near Fillmore, Ut	10232500	58.7	c,t	1985
Meadow Creek near Meadow, Ut	10233000	11.6	c,t	1944
				1971-75
				1985
Corn Creek near Kanosh, Ut	10233500	—	c,t	1944
				1964
				1971-75
				1985
South Creek near Beaver, Ut	10235000	14.7	c,t	1965
				1971-76
North Fork North Creek near Beaver, Ut	10236000	14.1	c,t	1972-77
South Fork North Creek near Beaver, Ut	10236500	23.0	c,t	1971-76
Indian Creek near Beaver, Ut	10237500	18.5	c,t	1965
				1971-77
Indian Creek at Adamsville, Ut	10238000	a180	c,t	1964
PAROWAN VALLEY				
Little Creek near Paragonah, Ut	10241400	15.8	c,t	1971-80
Red Creek near Paragonah, Ut	10241430	a6.3	c,t	1971-75
Center Creek above Parowan Creek near Parowan, Ut	10241470	11.6	c,t	1971-83
Summit Creek near Summit, Ut	10241600	24.0	c,s,t	1971-83

XL WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DISCONTINUED SURFACE-WATER-QUALITY STATIONS

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
SNAKE RIVER VALLEY				
George Creek near Yost, Ut	13077700	7.84	c,t	1965-67 1972-90
Clear Creek near Naf, Id	13079000	20.2	c,t	1965-67

Explanation:
a : approximate

INTRODUCTION

Water-resources data for the 1997 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 159 gaging stations; stage and contents for 18 lakes and reservoirs; water quality for 12 hydrologic stations, and 185 wells; and water levels for 49 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, 1969, 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-97-1." 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 Office at the address given on the back of the title page or by telephone (801) 975-3350.

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, Ted Stewart, Executive Director
Division of Water Rights, R. L. Morgan, State Engineer
Division of Water Resources, D. L. Anderson, Director
Bear River Commission, Denise Wheeler, Chairman
Salt Lake County Flood Control, Brent Overson, Chairman
National Park Service, Roger C. Kennedy, Director
Weber Basin Water Conservancy District, Ivan Flint
Ogden River Water Users, Terel Grimley
Weber River Water Users, Floyd Baham
Central Utah Water Conservancy District, Don Christiansen
Tooele County, Ray Johnson, Engineer
Nephi City, Lee Fowkes
Kane County Water Conservancy District, Todd MacFarland
St. George City, Kirk Bradley
Washington County Water Conservancy District, Ron Thompson
Arizona Department of Water Resources
Kanab City, Keith Robinson

Assistance in the form of funds was given by the Bureau of Reclamation, U.S. Department of the Interior, in collecting records for six gaging stations. Records for nine gaging stations in Idaho in the Bear River basin and eight in Utah were collected by the Utah Power 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.
Wyoming District.--Bear River at Evanston, WY
Blacks Fork near Millburne, WY
Blacks Fork near Robertson, WY
East Fork of Smiths Fork, near Robertson, WY
Green River near Green River, WY

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.

WATER RESOURCES DATA FOR UTAH, 1997

SUMMARY OF HYDROLOGIC CONDITIONS

by David V. Allen

Hydrologic conditions for Utah can vary greatly across the state because of topography, geology, and changing seasonal atmospheric conditions. Annual precipitation ranges from about 5 inches in the Great Salt Lake Desert to about 60 inches on the highest mountains (Butler and Marsell, 1972). Pacific frontal storms with moisture from the Pacific Ocean and Gulf of California generally occur during winter and early spring and are responsible for the mountain snowpack. Snowpack typically increases with elevation, with storm accumulations greater than 12 inches of snow common at elevations above 8,000 feet above sea level. During the summer months, monsoonal moisture from the warm waters of the Pacific Ocean and Gulf Of California can cause thunderstorms which vary greatly in areal extent and intensity. When conditions are correct, storms moving across Great Salt Lake pick up additional moisture from evaporation of lake water and precipitation can be locally enhanced; this is the so called "lake effect." The mountain ranges and plateaus of Utah are characterized by steep slopes, sparse vegetation, thin soils, and in areas such as the Colorado River Basin, large expanses of bedrock and steep-walled canyons. These conditions can lead to rapid runoff and flooding as a result of both snowmelt or thunderstorms.

Precipitation

During the 1997 water year the state water-supply conditions generally improved compared to the 1996 water year, especially in the southern part of the state. Precipitation in Utah during the 1997 water year was greater than normal¹ (1961-90) at 11 of 12 selected precipitation-recording stations operated by the National Oceanic and Atmospheric Administration (National Oceanic and Atmospheric Administration, 1996 and 1997) in Utah (fig. 1). Of the 12 stations, only Alta, located about 25 miles southeast of Salt Lake City at an elevation of 8,730 feet above sea level, received less-than-normal precipitation (total water-year precipitation was 46.42 inches, -7.16 inches less than normal).

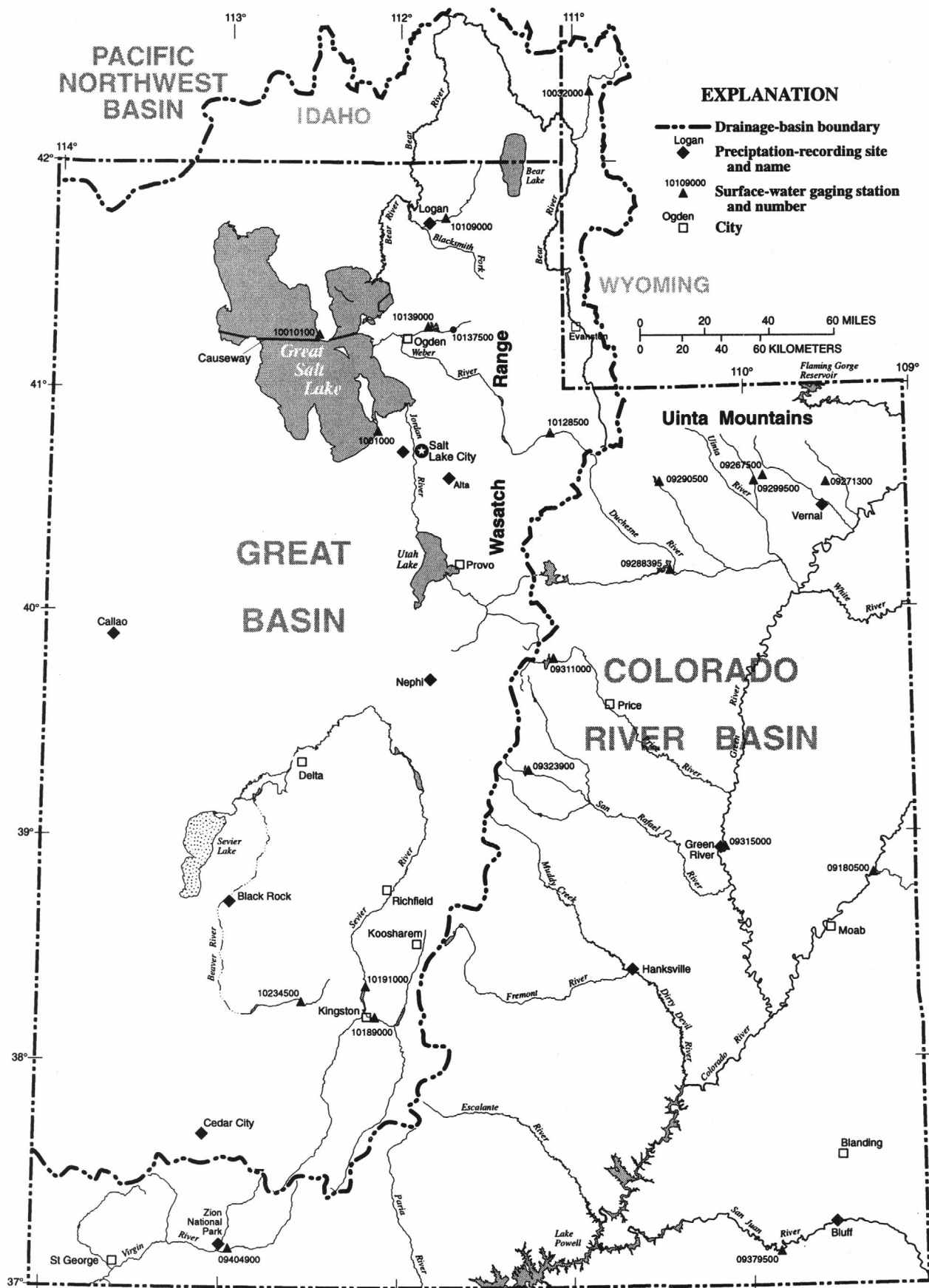
Table 1. Precipitation and departure from normal precipitation at selected sites for water year 1997

[In inches; upper number indicates precipitation; lower number (in parentheses) indicates precipitation departure from 1961-90 normal precipitation; e, estimated from partial record; M, missing entire month]

Site	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug ¹	Sep ¹	Total Departure
Alta	3.70 (0.22)	e4.45 (-1.25)	e7.77 (0.87)	e7.06 (0.07)	3.12 (-3.31)	e2.06 (-4.70)	e4.27 (-1.81)	2.88 (-0.51)	3.47 (1.64)	1.34 (-0.28)	2.48 (0.69)	3.82 (1.21)	46.42 (-7.16)
Black Rock	0.61 (-0.17)	1.76 (0.99)	e0.23 (-0.36)	1.43 (0.93)	0.61 (0.13)	0 (-1.12)	1.58 (0.60)	1.71 (0.93)	0.83 (0.29)	0.77 (-0.09)	2.41 (1.58)	2.16 (1.30)	14.10 (5.01)
Bluff	1.14 (0.08)	1.22 (0.45)	e0.29 (-0.46)	0.74 (0.03)	1.01 (0.34)	0 (-0.67)	1.55 (1.07)	0.20 (-0.21)	0.12 (-0.11)	1.05 (0.13)	1.24 (0.41)	2.23 (1.50)	10.79 (2.56)
Callao	M	0.31 (-0.03)	0.64 (0.36)	0.92 (0.63)	0.82 (0.49)	0 (-0.41)	1.17 (0.70)	1.01 (0.20)	2.56 (1.83)	0.66 (0.13)	1.00 (0.34)	1.32 (0.72)	10.41 (4.96)
Cedar City	2.01 (1.06)	1.43 (0.43)	0.74 (0.04)	1.91 (1.22)	0.82 (-0.07)	0.15 (-1.21)	1.32 (0.22)	0.69 (-0.15)	0.79 (0.36)	0.68 (-0.41)	0.98 (-0.49)	2.17 (1.22)	13.69 (2.19)
Green River	0.81 (-0.08)	0.74 (0.29)	0.28 (-0.13)	0.81 (0.41)	0.81 (0.49)	0 (-0.59)	1.88 (1.38)	0.25 (-0.38)	0.50 (0.10)	0.92 (0.35)	1.12 (0.37)	1.93 (1.14)	10.05 (3.35)
Hanksville	0.25 (-0.43)	0.40 (-0.01)	0.11 (-0.20)	1.68 (1.30)	e0.35 (0.10)	0.05 (-0.46)	1.54 (1.12)	0.19 (-0.30)	0.64 (0.34)	0.81 (0.27)	1.25 (0.52)	1.64 (0.90)	8.91 (3.15)
Logan	3.02 1.15	1.79 0.06	3.57 1.85	3.94 2.54	0.60 -1.05	0.76 -1.26	2.92 0.77	2.65 0.61	1.75 0.18	2.08 1.30	2.00 1.03	1.12 -0.50	26.20 (6.68)
Nephi	1.94 (0.68)	2.20 (0.81)	e1.16 (-0.17)	3.59 (2.40)	1.40 (0.21)	0.14 (-1.57)	2.41 (0.90)	1.57 (0.19)	1.11 (0.26)	0.57 (-0.27)	1.73 (0.72)	2.05 (0.87)	19.87 (5.03)
Salt Lake City	1.45 (0.01)	1.72 (0.43)	1.73 (0.33)	2.27 (1.16)	1.62 (0.39)	0.97 (-0.94)	2.22 (0.10)	1.77 (-0.03)	1.73 (0.80)	0.84 (0.03)	0.63 (-0.23)	1.50 (0.22)	18.45 (2.27)
Vernal	1.01 (-0.05)	0.74 (0.14)	0.52+ (-0.11)	1.30 (0.88)	0.70 (0.29)	0.05 (-0.60)	1.20 (0.39)	0.61 (-0.27)	0.97 (0.18)	0.34 (-0.16)	2.41 (1.83)	2.86 (1.99)	12.71 (4.51)
Zion N.P.	1.47 (0.55)	2.31 (0.85)	2.17 (0.89)	4.44 (2.85)	0.79 (-0.81)	0 (-2.05)	0.67 (-0.48)	0.59 (-0.25)	0.11 (-0.37)	1.90 (0.65)	2.10 (0.31)	4.29 (3.29)	20.84 (5.43)
Total Departure	3.02	3.16	2.91	14.42	-2.80	-15.58	4.96	-0.17	5.50	1.65	7.08	13.86	

¹Provisional data.

¹The National Oceanic and Atmospheric Administration defines "normal" as the average value of a meteorological element over a period of time. Since January 1, 1993 the averaging period is calendar years 1961 to 1990.



Of the remaining 11 sites, located at elevations ranging from 4,050 to 5,610 feet above sea level, Hanksville recorded the least total precipitation with 8.91 inches, or +3.15 inches greater than normal, and Logan recorded the greatest total precipitation with 26.20 inches, +6.68 inches greater than normal. The average departure-from-normal precipitation for the water year at these 11 sites was +4.10 inches. The selected precipitation sites showed that 9 of the 12 months in the water year were wetter than normal. The period from October through January was generally wetter than normal; the wettest month was January, when all twelve sites recorded greater-than-normal precipitation, or +14.42 inches departure from normal. February, March, and May had less-than-normal amounts of precipitation; the greatest negative departure from normal occurred in March, when all 12 sites recorded less-than-normal precipitation, totalling -15.58 inches departure from normal. June through September was generally wetter than normal, especially during September when 11 of 12 sites recorded greater-than-normal precipitation totals (total +13.86 inches). The southern part of the state was affected most by the greater-than-normal precipitation during the summer monsoon season (July through September). The precipitation gages at Bluff, Caliao, Green River, Hanksville, and Zion National Park recorded greater-than-normal precipitation for all 3 months.

Streamflow, Flooding, and Reservoir Storage

Mean annual discharge at seven long-term, selected gaging stations (fig. 2) for the 1997 water year were near or greater than the long-term annual seventy-fifth percentile (1944-96) discharges. A replacement gaging station, Smiths Fork near Border, Wyoming (10032000), was selected because Blacksmith Fork above Utah Power and Light Company's dam near Hyrum, Utah (10113500) was discontinued at the end of water year 1996. The mean annual discharges ranged from a maximum of 170 percent of the long-term median discharge at Colorado River near Cisco, Utah (09180500) to a minimum of 119 percent of the long-term median discharge at Whiterocks River near Whiterocks, Utah (09299500), and averaged 140 percent for the seven gaging stations.

In the Colorado River Basin, the monthly mean discharge at the Colorado River and Green River gages was near or greater than the seventy-fifth percentile each month from November through September. Monthly mean discharges at Whiterocks River ranged between the long-term monthly median and twenty-fifth percentile during October through February, then increased above the monthly median discharges during March - May and August - September. The September monthly mean discharge of 217 cubic feet per second (cfs) at Whiterocks River is greater than the September maximum for water years 1944-96 (190 cfs), and second only to the September record mean monthly discharge of 359 cfs recorded in 1927. Green River at Green River, Utah (09315000) also recorded a new maximum September monthly mean discharge of 6,203 cfs, compared to 6,004 cfs for 1944-96. This was also the fourth largest discharge for September at this gage for 99 years of record, exceeded only in 1929 (6,346 cfs), 1927 (8,515 cfs) and 1909 (9,960 cfs). In the Great Basin, monthly mean flows at Smiths Fork near Border, Wyoming were generally near or greater than the seventy-fifth percentile for the entire water year, with new maximum monthly mean discharge recorded for May, 1,072 cfs.

Minor local flooding occurred in Utah during water year 1997 as a result of snowmelt runoff, irrigation canal breaches and severe thunderstorms. Greater-than-normal snowpack in the Bear and Weber River drainages during April and May caused minor flooding along the South Fork Ogden River near Huntsville (10137500) Blacksmiths Fork and Logan River (10109000) near Logan, Utah. Late-season high-elevation snows and lower-elevation rainstorms around April 25 caused overbank flows on Blacksmiths Fork, but damage to homes was minimized by sandbagging efforts. Snowmelt runoff peaked on South Fork Ogden River (10137500) on May 15 at 1,440 cfs, an amount that occurs about once in 8 years, and the Logan River peaked on May 22 at 1,740 cfs, which occurs about once in 10 years. Minor damage to cabins and campgrounds resulted from flooding along both rivers. The levee of Mosby Canal (09268500) located in the eastern part of the Uinta Mountains, failed on May 17. The failure occurred on a mountainside near 9,800 feet elevation, and water eroded a gully several hundred feet deep, 300 feet wide, and about one-half mile long down to Dry Fork, 1,400 feet below. About 1.2 million cubic yards of sediment was deposited in Dry Fork, northwest of Vernal, Utah, which aggraded the streambed more than 5 feet in places. Silt contaminated the drinking-water supply and irrigation systems for Vernal and surrounding towns.

In southern Utah, summer thunderstorms caused many flash floods, but none were measured with greater than a 10-year recurrence interval. Many stations in the Virgin River drainage recorded three to seven peaks above base during August and September, and East Fork Virgin River near Springdale (09404900) recorded a new maximum discharge for period-of-record (October 1991 to current year) of 3,100 cfs on August 10; the previous maximum was 2,160 cfs.

On August 22, an intense, isolated thunderstorm near Kingston caused flash floods and debris flows in the vicinity of East Fork Sevier River near Kingston (10189000). The storm produced about three inches of precipitation in 2 hours, a rate more than twice the rate for 100-year storms in nearby Richfield (1.16 inches per 2 hours) and Koosharem (1.47 inches per 2 hours). The floods and debris flows "emerged from numerous (estimated 15 side-canyons over a 6-mile distance of the canyon) small to large side-canyons flowing southward across their alluvial fans, then across State Route 62, then into the East Fork of the Sevier River" (Utah Department of Public Safety, 1997). The flooding buried the paved highway in places and eroded the highway fill in others, destroyed a culinary-water pipeline for the town of Kingston, aggraded the streambed with large boulders and cobbles for several miles, destroyed an unpaved road and several small bridges, and caused minor damage to irrigation canals and cropland. No deaths or injuries were reported, but many motorists were stranded at each end of the canyon. At the East Fork Sevier River gage, a new maximum gage height for the period-of-record (March 1913-current year) was recorded, 8.29 feet, which surpassed the previous maximum of 7.35 feet in 1929. However the peak discharge for this event was calculated from an indirect measurement to be only 710 cfs, much less than the historic record discharge of 2,030 cfs on May 12, 1941. The reason for the incongruity between the maximum gage height and the relatively small peak discharge is that the gage height was affected by backwater from tributary inflow of water and debris downstream of the gage.

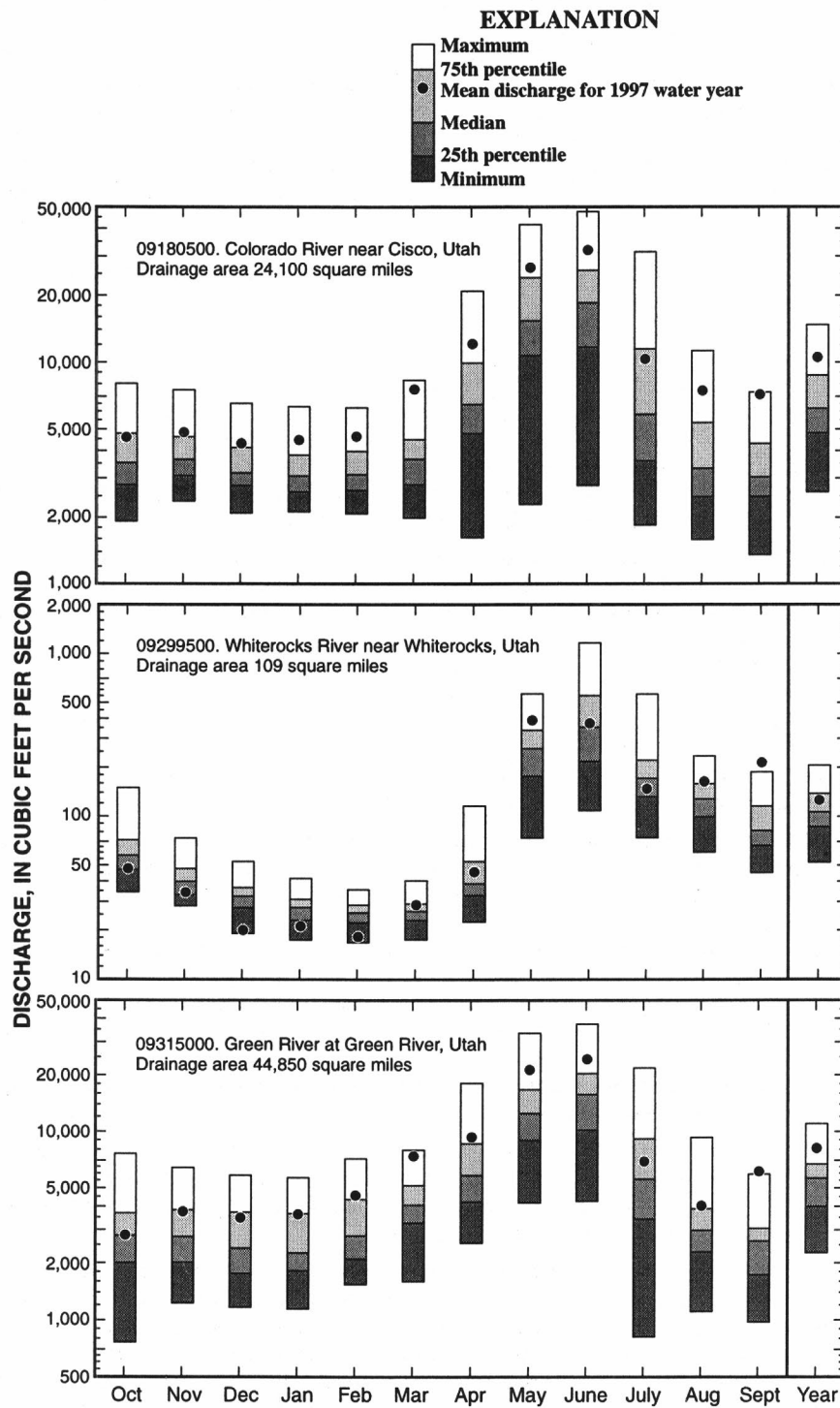


Figure 2. Comparison of monthly and annual mean discharge for water year 1997 with maximum, 75th percentile, median, 25th percentile, and minimum monthly and annual discharge for water years 1944-97 at seven long-term, representative streamflow-gaging stations in Utah and Wyoming.

WATER RESOURCES DATA FOR UTAH, 1997

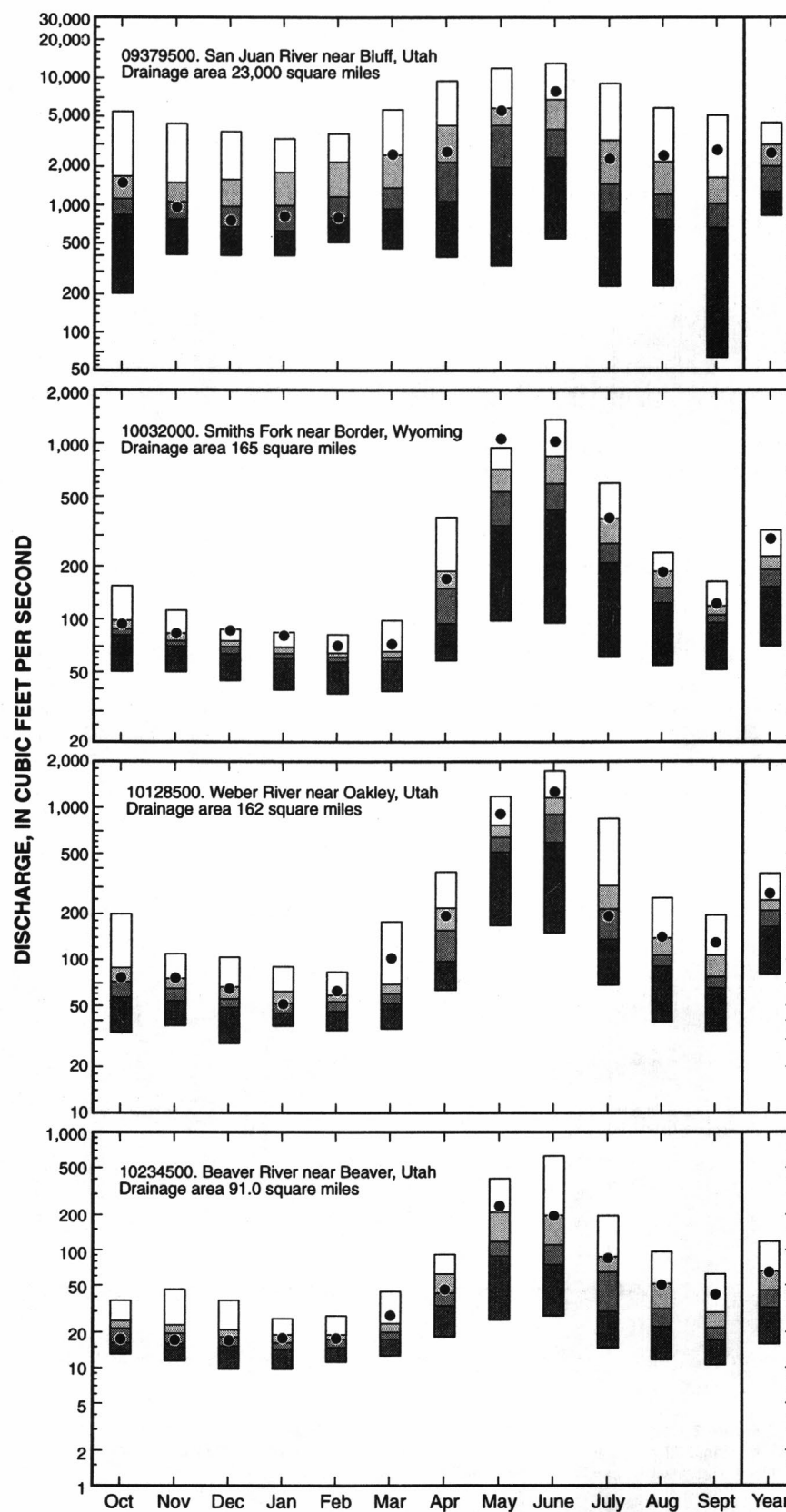


Figure 2. Comparison of monthly and annual mean discharge for water year 1997 with maximum, 75th percentile, median, 25th percentile, and minimum monthly and annual discharge for water years 1944-97 at seven long-term, representative streamflow-gaging stations in Utah and Wyoming--Continued.

Combined reservoir contents on September 30, 1997, at 15 selected reservoirs in Utah averaged 138 percent of the long-term (1961-90) average-usable contents¹, an increase from 117 percent for the 1996 water year. Contents at the end of the water year were greater than the long-term average at all of the 15 reservoirs. The largest percent of capacity was at Piute Reservoir near Marysville, Utah (10191000), with 180 percent, and the smallest was at Starvation Reservoir near Duchesne, Utah (09288395), which was at 105 percent of capacity. Storage in Bear Lake, located in northern Utah, peaked at about 1,343,000 acre-feet during July 9-10, which is about 409,000 acre-feet more than the peak for the 1996 water year (943,000 acre-feet) and 131 percent of the long-term average contents (1,027,400 acre-feet). Minimum storage in Bear Lake was 836,000 acre-feet on October 1-26, 1996, which is 295,000 more than the minimum for the 1996 water year (541,000 acre-feet).

The south part of Great Salt Lake (10010000) reached a maximum daily mean elevation for the 1997 water year of 4,201.9 feet above sea level on June 23, 1997 (fig. 3), which was 1.1 feet higher than the peak elevation for the previous water year. Fluctuations in the level of Great Salt Lake occur because of changes in the rates of freshwater inflow, movement of water through the Southern Pacific Railroad causeway, and evaporation outflow. Great Salt Lake normally reaches its peak elevation between late April and early June, and its lowest elevation normally occurs between late September and early December. The minimum elevation for the 1997 water year was 4,198.7 feet above sea level on many days in October and November, which is 0.1 foot lower than the minimum for the 1996 water year. The elevation of the north part of Great Salt Lake (10010100) ranged from a minimum of 4,196.8 feet above sea level on many days in October and November 1996 to a maximum of 4,198.9 feet above sea level on June 22-23 and July 18. Salinity of the south arm at the Saltair gage averaged 11.4 percent (7 observations) down from 12.9 percent (9 observations) in water year 1996, and the north arm averaged 27.6 percent (7 observations) up from 26.2 percent (6 observations) the previous water year.

Ground Water

Seven wells were selected to show trends in ground-water levels for water years 1988-97. The wells are in Curlew Valley, Pahvant Valley, the Beryl-Enterprise area, East Shore area near Ogden, and the Vernal and Blanding areas (fig. 4). For the 1997 water year, water-level hydrographs (fig. 5) show small rises or declines in most areas during the last several water years, except in the Blanding area where a large decline was recorded. In Pahvant Valley, well (C-21- 5)21aba- 1 shows a rapid decline and recovery during April 15 to June 15, which was probably caused by withdrawals from nearby wells. Statewide, of the 25 wells equipped with continuous recording devices, 3 recorded record-maximum water levels during the 1996 water year, and 5 recorded record-minimum water levels. Of those wells with record high-water levels, all are located in Wasatch County in northern Utah, and have periods-of-record of less than 5 years. Of the five wells with record low-water levels in water year 1997, five are located in the Beaver, Iron, Kane, and Washington counties in the southwestern corner of the state, and one has a period of record of 55 years. Water levels in wells were generally lower in the spring of 1997 compared to the spring of 1996 in 9 of the 15 areas of major ground-water development in Utah (fig. 4), according to a U.S. Geological Survey report published in 1997 (Gerner and others, 1997).

Chemical Quality of Streamflows

Long-term water-quality data are collected at three National Stream-Quality Accounting Network (NASQAN) stations in Utah (fig. 6), which is the same number as for the 1996 water year. Water-quality samples or data also were collected at eight other sites in the Colorado River Basin. Sediment-concentration samples were collected at Salt Creek at Nephi, Utah (10146000).

REFERENCES

- Butler, Elmer, and Marsell, R.E., 1972, Cloudburst Floods in Utah, 1936-69: Utah Division of Water Resources Cooperative Investigations Report 11, 103 p.
- Gerner, S.J., Steiger, J.I. and others, 1997, Ground-Water Conditions in Utah, Spring of 1997, Cooperative Investigations Report No. 38, 121 p.
- National Oceanic and Atmospheric Administration, 1996, Climatological Data, Utah: Asheville, N.C., National Climate Center, v. 98, no. 10-12.
- National Oceanic and Atmospheric Administration, 1997, Climatological Data, Utah: Asheville, N.C., National Climate Center, v. 99, no. 1-7.
- Utah Department of Public Safety, Division of Comprehensive Emergency Management, 1997, Hazard Analysis-Kingston Canyon, Piute County Flash Flood.

¹Long-term averages provided by National Oceanic and Atmospheric Administration. Averages for East Canyon (1966-90), Joes Valley (1966-90), Starvation (1970-90), and Steinaker (1975-90), Reservoirs are calculated on the basis of the water years shown in parentheses.

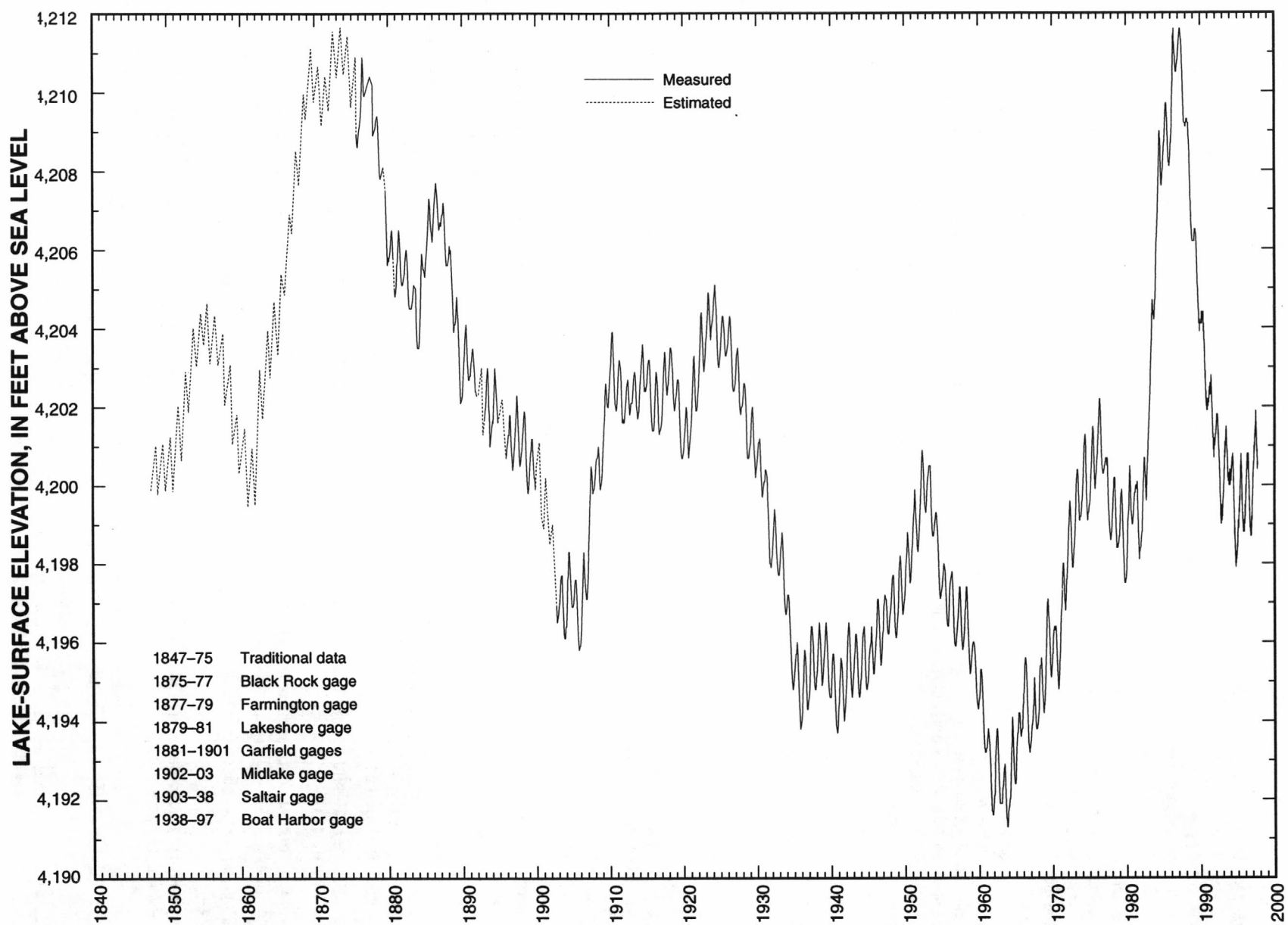


Figure 3. Fluctuations in elevation of Great Salt Lake, 1845-97.

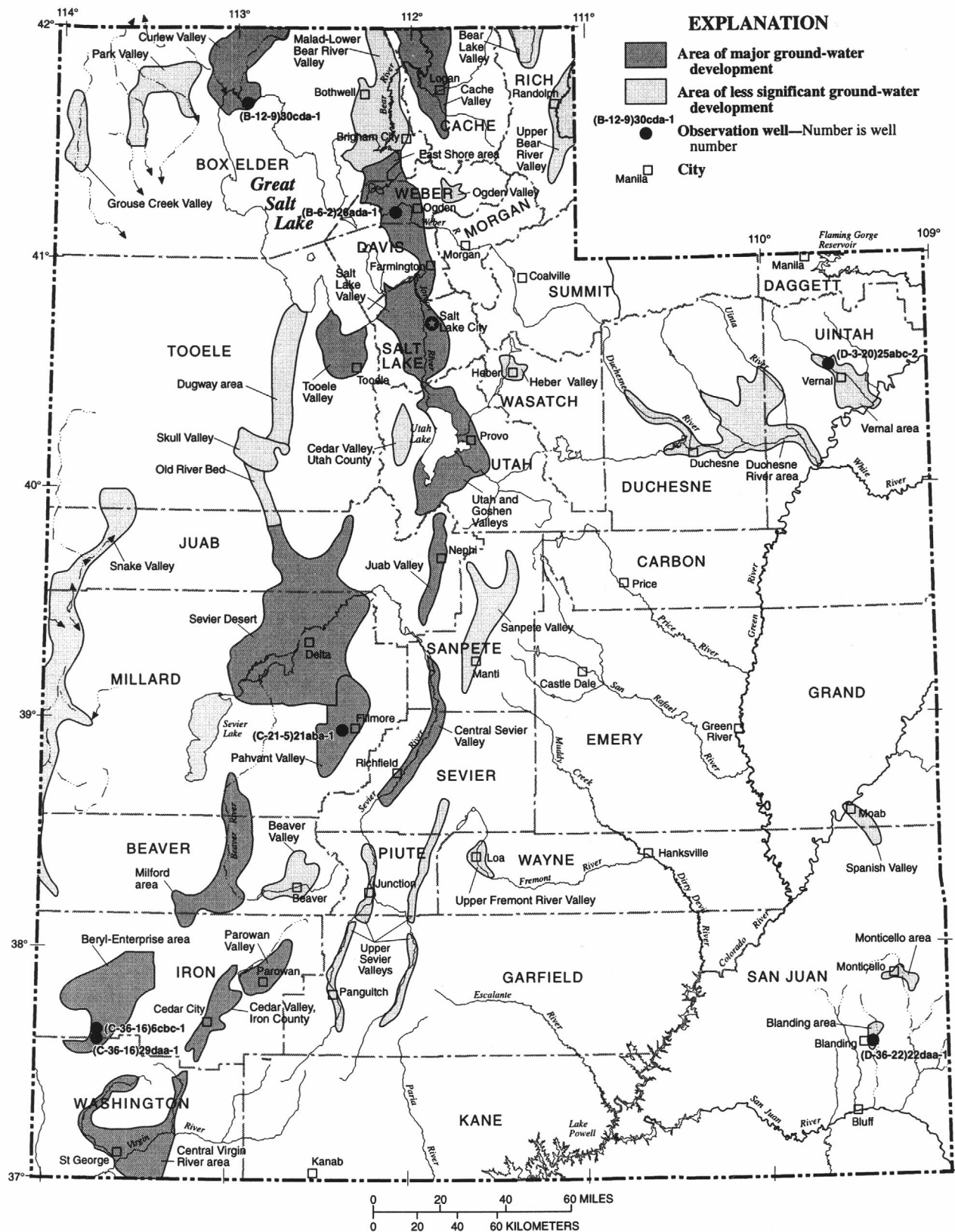


Figure 4. Areas of ground-water development and location of selected observation wells.

WATER RESOURCES DATA FOR UTAH, 1997

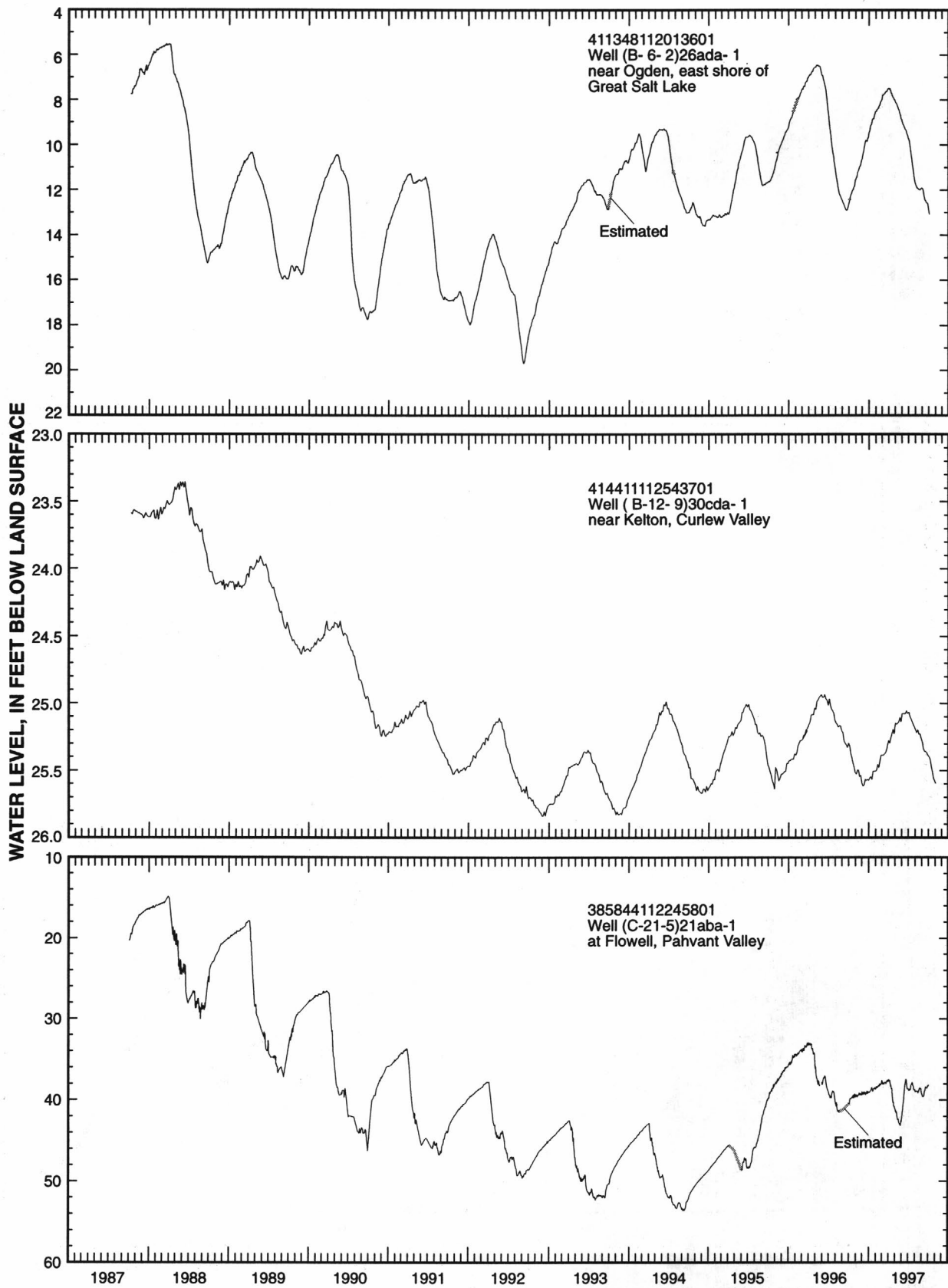


Figure 5. Fluctuations of water levels in selected wells in Utah for 1987-97.

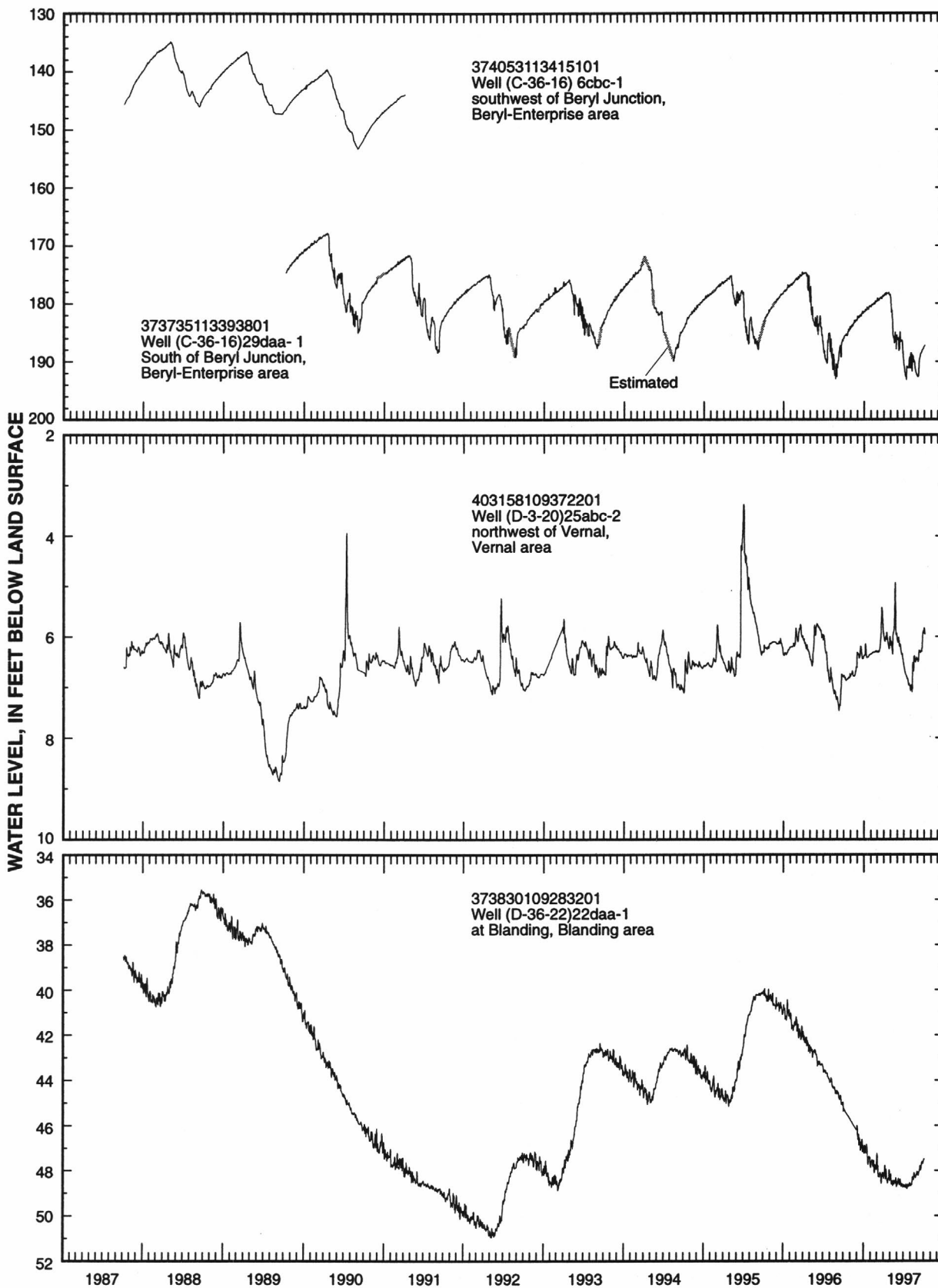
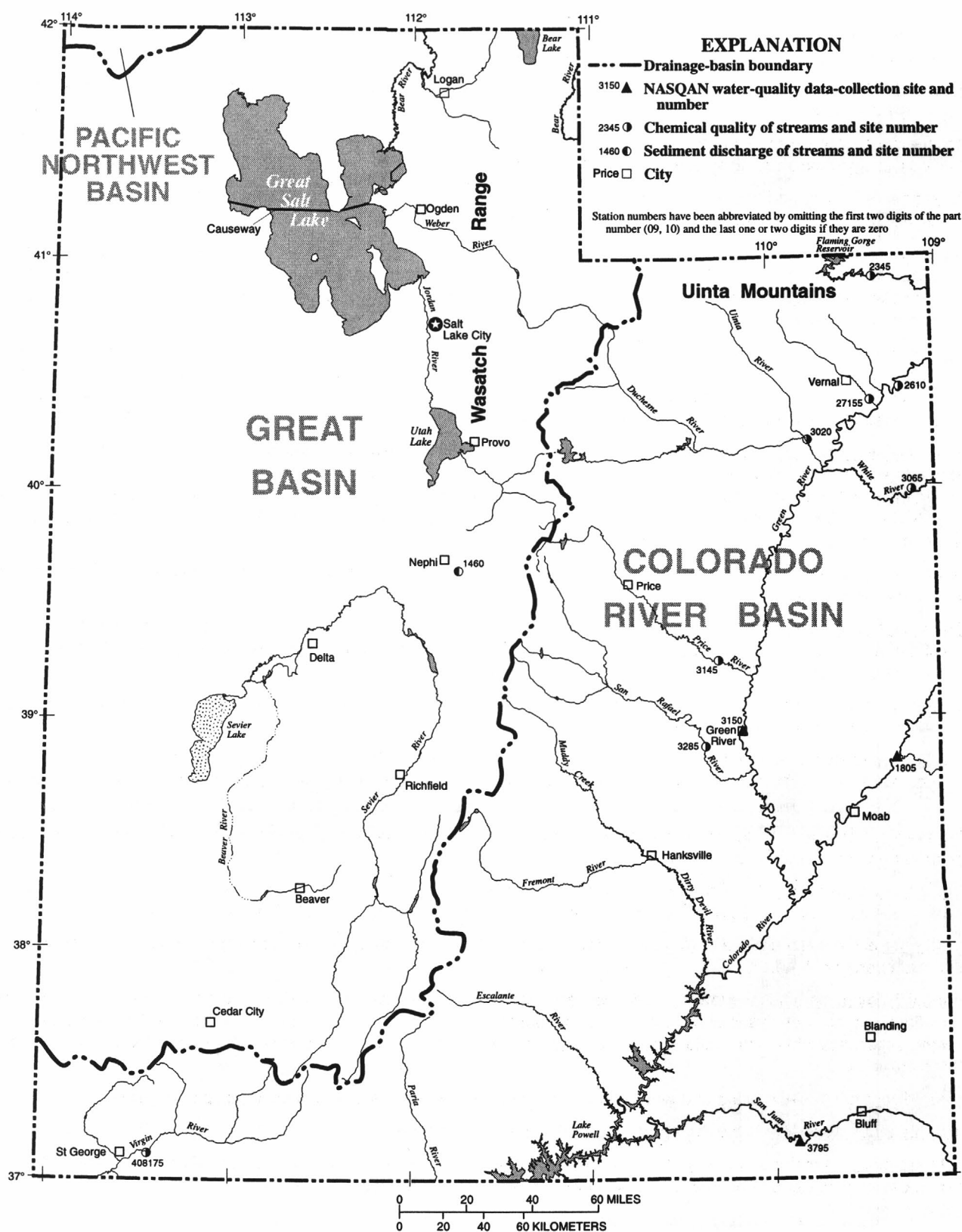


Figure 5. Fluctuations of water levels in selected wells in Utah for 1987-97--Continued.



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) 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 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 me 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 me 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 (ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a 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.

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

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.

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.

Dissolved refers to that material in a representative water sample which passes through a $0.45 \mu\text{m}$ 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.

Epilimnion 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 polyvalent cations and is expressed as the equivalent concentration of calcium carbonate (CaCO_3).

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 of 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, $\mu\text{g/L}$) 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.

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 agree 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
Silt004 - .062	Sedimentation
Sand062 - 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, pace) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (I). A curie is the amount of radioactivity that yields $3.7 \times 10_{10}$ radioactive disincorporation per second. A pedicure yields 2.22 DPN (disintregations per minute).

Sea level in this report refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929.

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 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 (ft^3/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 within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation of 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 μm 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 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, 1995, is called the "1995 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 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 number, 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 consecutive. The complete 8-digit number for each station such as 090041000, which appears just to the left of the station name, includes a 2-digit part number "03" plus the 6-digit downstream order number "0410100."

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 11.

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 12. 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 counter-clockwise 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 south-east 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.

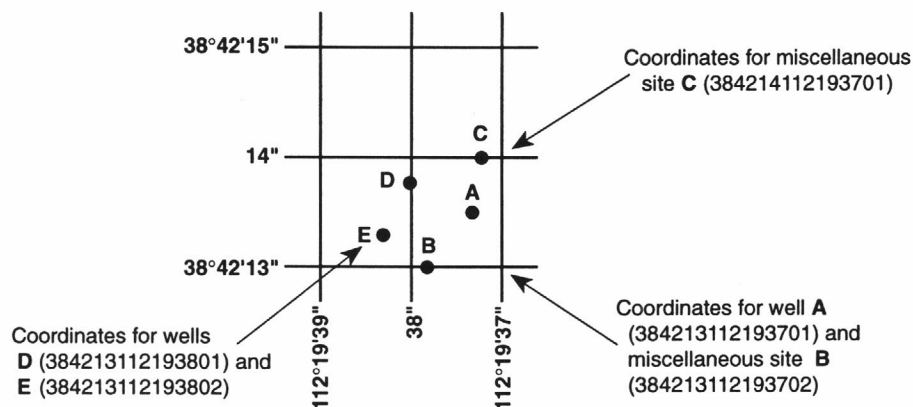


Figure 7. System for numbering wells and miscellaneous sites (latitude and longitude).

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

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

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to accomplish the following objectives; (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) Provide the

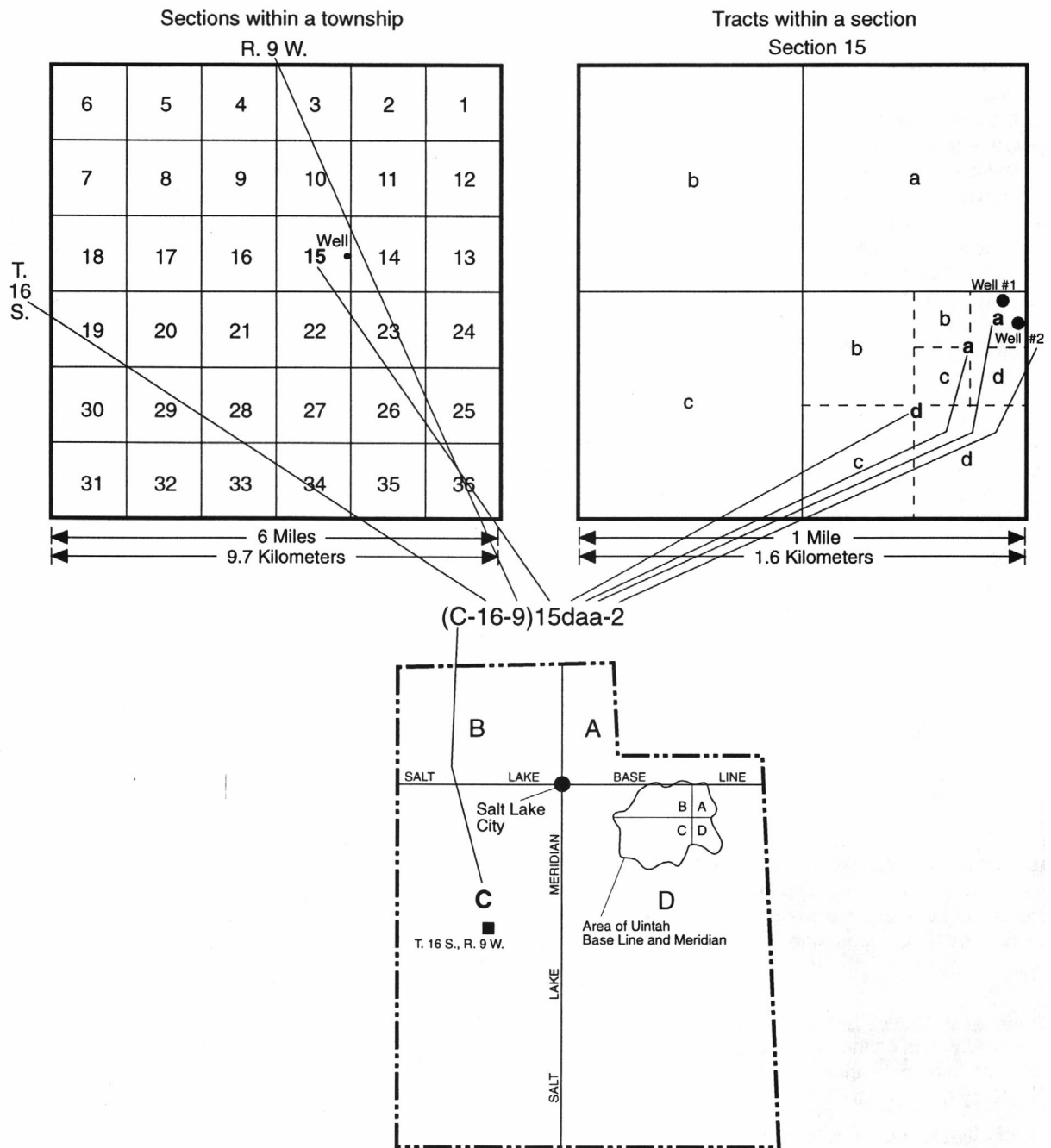


Figure 8. System for numbering wells (township and range).

mechanism to evaluate the effectiveness of the significant reduction in SO₂ emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO₂ and NO_x scheduled to begin in 2000.

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

<http://nadp.nrel.colostate.edu/NADP>

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

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

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

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

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

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations (fig. 13) 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, Water-Supply Paper 2175, and the U.S. Geological Survey Techniques of Water Resources Investigations (TWRI's), Book 3, Chapter A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

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 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.

Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1991 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

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

Station Manuscript

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

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

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

PERIOD OF RECORD.--This indicates the period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that flow at it can reasonably be considered equivalent to flow at the present station.

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

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

REMARKS.--All periods of estimated daily discharge will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See next section, "Identifying Estimated Daily Dis-

charge.") If a REMARKS paragraph is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

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

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

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

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

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given. No changes have been made to the data presentations of lake contents.

Data Table of Daily Mean Values

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

Statistics of Monthly Mean Data

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

Summary Statistics

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

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript,

occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

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

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year.

ANNUAL MEAN.--The arithmetic mean for the individual daily mean discharges for the year noted or for the designated period.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 analysis have been made.

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

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analyses usually are collected at or near gaging stations. 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 apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum 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.

SURFACE-WATER-DISCHARGE AND SURFACE-WATER-QUALITY RECORDS

Remarks Codes

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

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

Water Quality-Control Data

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

Blank Samples

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

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

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

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

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

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

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

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

Reference Samples

Reference material is a solution or material prepared by a laboratory whose composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate Samples

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

Split sample - a type of replicate sample in which a sample is split into subsamples contemporaneous in time and space.

Spike Samples

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

Dissolved Trace-Element Concentrations

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

Change in National Trends Network Procedures

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

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 one 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 0.9927, 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 streams. Methods used in the computation of sediment records are described in the TWRI Book 3, Chapters C1 and C3. These methods are consistent with ASTM standards and generally follow ISO standards.

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.

Laboratory Analysis

Methods used to analyze sediment samples and to compute sediment records are described in the TWRI Book 54, chapter C1. Methods used by the U.S. Geological Survey laboratories are given in the TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, A4, and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

Accuracy of Laboratory Analysis

In March 1989 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L gave a median positive bias of 2 mg/L above the true value for the period between 1982 and 1989. Sulfate values in this report have not been corrected for this bias.

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. 14). 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 produced for local needs (see figures 11 and 12).

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.

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey TWRI publications referred to in the "On-site Measurements and Sample Collection" and the Laboratory Measurements" sections in this data report. In addition, the TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum above sea level 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 of 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 USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at

<http://water.usgs.gov>

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

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

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

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

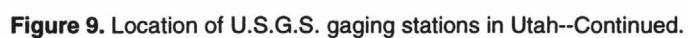
- 1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, 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-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 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.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W. S. Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.
- 2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W. E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurement at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. *Measurement of time of travel in streams by dye tracing*, by F. A. Kilpatrick and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.

- 3-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
- 3-A11. *Measurement of discharge by the moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-A12. *Fluorometric procedures for dye tracing*, Revised, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 34 pages.
- 3-A13. *Computation of continuous records of streamflow*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. *Use of flumes in measuring discharge*, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-A16. *Measurement of discharge using tracers*, by F. A. Kilpatrick and E. D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.
- 3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F. A. Kilpatrick, R. E. Rathbun, Nobuhiro Yotsukura, G. W. Parker, and L. L. DeLong: USGS--TWRI Book 3, Chapter A18. 1989. 52 pages.
- 3-A19. *Levels at streamflow gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 31 pages.
- 3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A20. 1993. 38 pages.
- 3-A21. *Stream-gaging cableways*, by C. Russell Wagner: USGS--TWRI Book 3, Chapter A21. 1995. 56 pages.
- 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 programmed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-B4. *Regression modeling of ground-water flow*, by R. L. Cooley and R. L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.
- 3-B4. *Supplement 1. Regression modeling of ground-water flow - Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems*, by R. L. Cooley: USGS--TWRI Book 3, Chapter B4. 1993. 8 pages.
- 3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction*, by O. L. Franke, T. E. Reilly, and G. D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.
- 3-B6. *The principle of superposition and its application in ground-water hydraulics*, by T. E. Reilly, O. L. Franke, and G. D. Bennett: USGS--TWRI Book 3, Chapter B6. 1987. 28 pages.
- 3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow*, by E. J. Wexler: USGS--TWRI Book 3, Chapter B7. 1992. 190 pages.
- 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.J. Fishman and L. C. Friedman, editors: USGS--TWRI Book 5, Chapter A1. 1989. 545 pages.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R. L. Wershaw, M. J. Fishman, R. R. Grabbe, and L. E. Lowe: USGS--TWRI Book 5, Chapter A3. 1987. 80 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L. J. Britton and P. E. Greeson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L.L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M. G. McDonald and A. W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.
- 6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model*, by S. A. Leake and D. E. Prudic: USGS--TWRI Book 6, Chapter A2. 1991. 68 pages.
- 6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual*, by L. J. Torak: USGS--TWRI Book 6, Chapter A3. 1993. 136 pages.
- 6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions*, by R. L. Cooley: USGS--TWRI Book 6, Chapter A4. 1992. 108 pages.
- 6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details*, by L. J. Torak: USGS--TWRI Book 6, Chapter A5, 1993. 243 pages.
- 6-A6. *A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction*, by Eric D. Swain and Eliezer J. Wexler. 1995. 125 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-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 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.
- 9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*, by D. N. Myers and F. D. Wilde: USGS--TWRI Book 9, Chapter A7. 1997. 49 pages.





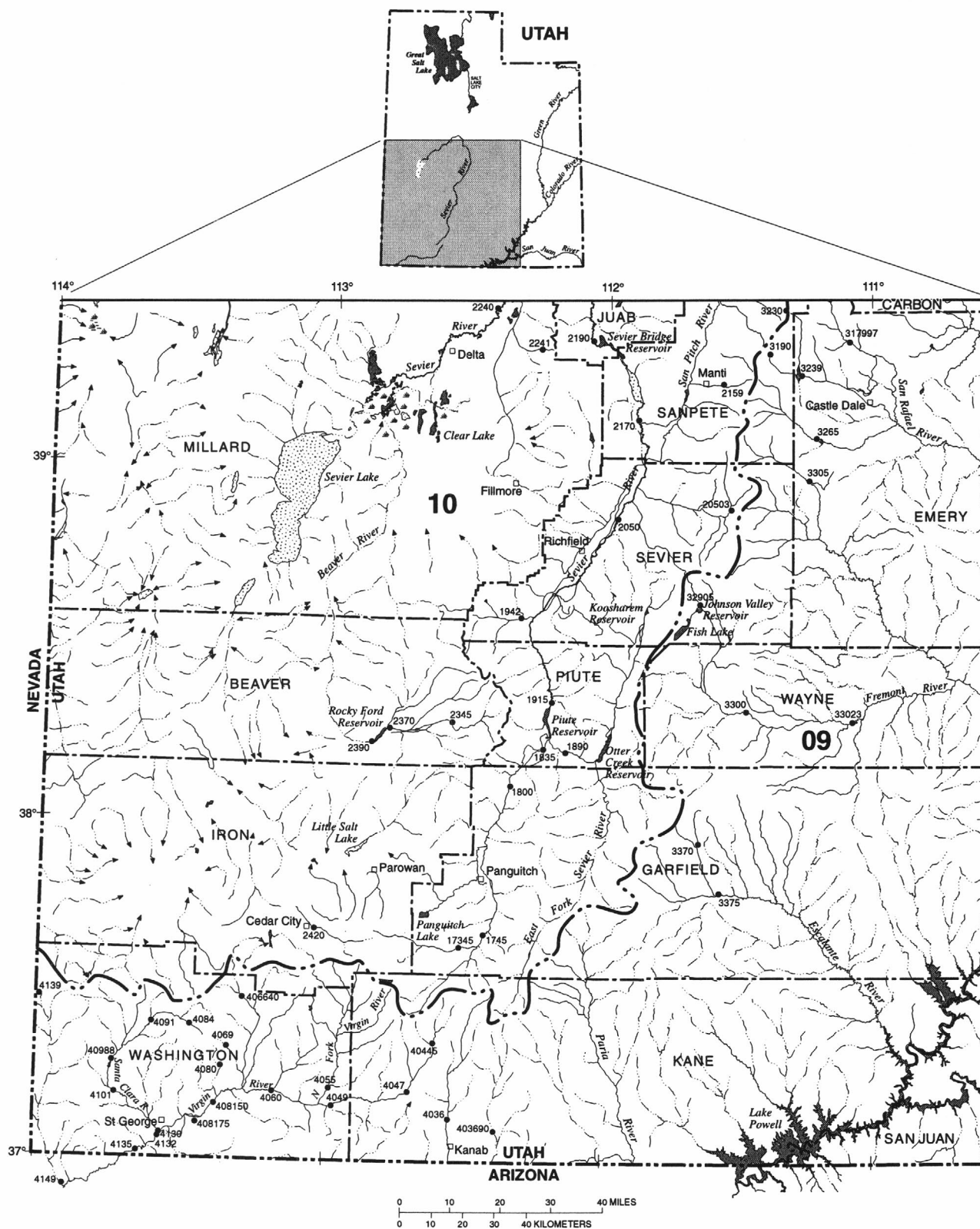


Figure 9. Location of U.S.G.S. gaging stations in Utah--Continued.

COLORADO RIVER MAIN STEM

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 39°07'58", long 109°01'35", in SE1/4NW1/4 sec.5, T.11 S., R.104 W., Mesa County, Hydrologic Unit 14010005, on right bank 0.5 mi downstream from McDonald Creek, 1.7 mi upstream from Colorado-Utah State line, and 12 mi southwest of Mack.

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 with satellite telemetry. Elevation of gage is 4,325 ft above sea level, from topographic map. May 1951 to October 1979, water-stage recorder at site 5.7 mi upstream at different datum. October 1979 to March 1995, water stage recorder at site 0.2 mi downstream at same datum.

REMARKS.--No estimated daily discharges. 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).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4330	4950	4740	4310	4830	4720	9150	13500	28600	20000	7170	5810
2	4240	4880	4570	4260	4900	4570	9370	12900	33300	18800	7300	5980
3	4620	4690	4640	4400	4940	4230	9210	11400	36800	17300	7310	5860
4	5260	5130	4370	5250	4960	4100	9530	10700	36300	16100	7120	5740
5	5440	5090	4200	4690	4860	4340	10300	11500	36400	15300	7600	6070
6	4960	5110	4410	4340	4810	4500	9650	13900	36300	14700	8750	6430
7	4740	5110	4530	4080	4890	4830	8830	17000	35300	14000	8610	6780
8	4610	4960	4520	3930	4810	5110	8190	19400	34700	13200	8860	6890
9	4490	5100	4410	3980	4670	5380	8180	20000	36300	12300	8010	6740
10	4310	4820	4490	4260	4570	5690	8550	20300	36400	11500	7950	6490
11	4250	4810	4690	4390	4590	6010	8480	20400	34200	10900	8720	6450
12	4310	4850	4880	4470	4690	6370	7730	20900	33700	10600	9890	6260
13	4210	4730	4810	4450	4830	6880	7200	21400	32700	10000	9790	6490
14	4190	4720	4650	4590	4900	7050	7530	22000	32200	9660	9740	6270
15	4130	4770	4540	4420	4740	7210	7440	22400	30600	9090	9620	6290
16	4120	5020	4350	4400	4820	7440	7500	23000	29200	8530	8850	6790
17	4200	5110	4060	4260	4810	7770	7870	24400	27200	8030	7910	7050
18	4300	4920	3210	4440	4950	8070	9340	25300	25800	7770	7520	6860
19	4200	4830	3220	4460	5070	8210	10700	26300	25900	7970	7040	6770
20	4370	4870	3290	4680	4930	8410	11800	26800	27400	7860	6720	7830
21	4630	4890	3870	4850	4850	8820	12900	27600	29000	7740	6430	11300
22	4650	5070	4530	4860	4750	9000	13600	27900	28200	7330	6360	10500
23	4570	5710	4700	4950	4650	9140	13100	32500	27200	6860	6460	9120
24	4530	5890	4540	4890	4640	9550	12400	32400	26500	7290	6150	8150
25	4760	5280	4300	4870	4710	9800	11500	33400	25700	7160	6000	7650
26	5050	5090	4240	4820	4690	9240	10600	33000	25200	6620	6070	7430
27	5050	5000	4370	4930	4670	8640	10300	29400	23900	6150	6560	7530
28	4960	4900	4570	5240	4710	8810	10600	25500	22200	5970	6240	7990
29	5310	4720	4610	4980	---	9330	12600	23100	21400	6130	5920	7960
30	5340	4700	4480	4890	---	9430	13800	23100	20800	6420	5780	7740
31	5150	---	4350	4850	---	9210	---	26100	---	6640	5730	---
TOTAL	143280	149720	135140	142190	134240	221860	297950	697500	899400	317920	232180	215220
MEAN	4622	4991	4359	4587	4794	7157	9932	22500	29980	10260	7490	7174
MAX	5440	5890	4880	5250	5070	9800	13800	33400	36800	20000	9890	11300
MIN	4120	4690	3210	3930	4570	4100	7200	10700	20800	5970	5730	5740
AC-FT	284200	297000	268100	282000	266300	440100	591000	1383000	1784000	630600	460500	426900
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1997, BY WATER YEAR (WY)												
MEAN	3921	4009	3608	3384	3473	3929	6002	14420	17790	8047	3921	3660
MAX	7672	6925	5993	6129	5996	7486	15600	37960	43830	29650	10190	7174
(WY)	1987	1987	1986	1985	1985	1986	1985	1984	1957	1995	1983	1997
MIN	1916	2363	2048	1871	1815	1984	1631	2283	2688	1662	1350	1361
(WY)	1957	1978	1964	1964	1964	1964	1977	1977	1977	1977	1977	1956
SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1951 - 1997												
ANNUAL TOTAL	2713680					3586600			6381			
ANNUAL MEAN	7414					9826			13470			
HIGHEST ANNUAL MEAN									2559			
LOWEST ANNUAL MEAN									1984			
HIGHEST DAILY MEAN	a28500					May 18			68300			
LOWEST DAILY MEAN	2580					Aug 16			960			
ANNUAL SEVEN-DAY MINIMUM	2830					Aug 13			1110			
INSTANTANEOUS PEAK FLOW									b69800			
INSTANTANEOUS PEAK STAGE									c16.12			
ANNUAL RUNOFF (AC-FT)	5383000					7114000			4623000			
10 PERCENT EXCEEDS	17000					25400			14300			
50 PERCENT EXCEEDS	4870					6420			4000			
90 PERCENT EXCEEDS	3620					4380			2250			

a-Also occurred May 20.

b-At site 0.2 mi downstream, at present datum.

c-From high-water mark.

DOLORES RIVER BASIN
09180000 DOLORES RIVER NEAR CISCO, UT

35

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. Elevation of gage is 4,165 ft above sea level, from river-profile map. Dec. 6, 1950 to Apr. 18, 1967, at site 200 ft downstream at different datum; Apr. 19, 1967 to Sept. 3, 1975 at site 10 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Macphee Reservoir, capacity 381,000 acre-ft, since 1986. Many diversions for irrigation above station.

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)
Mar. 24	1441	3,510	10.30	Apr. 21	1824	5,810	11.54
Apr. 5	1455	3,240	10.13	May 23	1556	*6,600	*11.92

Minimum daily discharge, 108 ft³/s, Jan. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	224	223	128	119	216	1750	4790	4260	1420	963	356
2	131	214	203	128	124	211	1930	4510	4660	1290	782	402
3	163	200	178	142	129	205	1800	4300	4820	1100	620	380
4	1820	197	196	157	131	203	2230	4380	4670	1040	637	343
5	1780	209	169	164	126	205	2990	4680	4320	948	845	346
6	645	198	191	161	123	198	2240	e4700	3830	873	960	451
7	402	200	192	159	e130	190	1730	e4800	3270	855	899	396
8	310	195	193	135	e136	195	1580	e4900	3020	775	749	343
9	287	181	196	127	e142	197	1650	e5100	3090	682	619	314
10	287	178	197	137	e148	206	1800	5120	3210	646	615	277
11	323	174	232	145	e156	223	1740	4760	3250	618	1060	285
12	319	174	281	162	e162	251	1570	4700	3000	645	935	329
13	308	165	267	167	e170	300	1340	4800	3160	590	702	395
14	312	144	262	160	e180	409	1220	4830	3240	647	693	361
15	296	149	233	145	e200	521	1220	4830	3200	624	594	390
16	288	157	204	136	e210	578	1560	4950	3090	628	506	721
17	264	174	165	115	e230	682	2270	5230	2820	612	460	768
18	262	193	e130	108	e220	829	3070	5400	2480	543	433	552
19	245	203	126	109	209	962	3450	5560	2450	546	404	462
20	235	222	118	115	238	1310	4050	5670	2400	548	376	433
21	220	212	122	128	230	1990	4610	5730	2410	592	359	929
22	213	223	132	125	224	2550	4540	5960	2730	578	340	736
23	204	233	135	134	216	2770	4240	6350	2960	532	326	656
24	191	300	123	129	203	2970	4070	5910	2680	643	295	547
25	193	334	129	124	218	2720	4460	6190	2350	633	294	474
26	194	323	127	118	213	1870	4300	6270	1980	531	311	443
27	190	272	134	129	215	1620	4340	5710	1740	484	570	479
28	209	240	145	138	218	1770	e4600	5110	1580	515	511	471
29	220	225	133	132	---	1980	e4500	4780	1500	734	371	449
30	280	207	132	126	---	2080	e4600	4280	1440	758	326	402
31	261	---	127	122	---	1750	---	4010	---	773	312	---
TOTAL	11189	6320	5395	4205	5020	32161	85450	158310	89610	22403	17867	13890
MEAN	361	211	174	136	179	1037	2848	5107	2987	723	576	463
MAX	1820	334	281	167	238	2970	4610	6350	4820	1420	1060	929
MIN	131	144	118	108	119	190	1220	4010	1440	484	294	277
AC-FT	22190	12540	10700	8340	9960	63790	169500	314000	177700	44440	35440	27550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1997, BY WATER YEAR (WY)

MEAN	258	271	217	181	247	520	1899	3033	1776	574	293	227
MAX	617	894	606	370	518	1037	5338	8803	3895	1827	665	463
(WY)	1987	1987	1987	1987	1987	1997	1993	1993	1995	1995	1987	1997
MIN	133	145	115	109	168	142	177	397	411	195	73.3	80.6
(WY)	1990	1991	1990	1990	1995	1990	1990	1990	1989	1994	1996	1989

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1987 - 1997

ANNUAL TOTAL	108101	451820	
ANNUAL MEAN	295	1238	
HIGHEST ANNUAL MEAN			793
LOWEST ANNUAL MEAN			1768
HIGHEST DAILY MEAN	1820	Oct 4	6350
LOWEST DAILY MEAN	56	Aug 24	108
ANNUAL SEVEN-DAY MINIMUM	59	Aug 15	119
ANNUAL RUNOFF (AC-FT)	214400		896200
10 PERCENT EXCEEDS	647		4410
50 PERCENT EXCEEDS	198		396
90 PERCENT EXCEEDS	95		134

e Estimated

DOLORES RIVER BASIN
09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

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.

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, 30.0°C July 3, 1997; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum observed, 3,090 microsiemens Dec. 9; minimum observed, 310 microsiemens June 3.

WATER TEMPERATURES: Maximum observed, 30.0°C July 3; minimum observed, 0.0°C several days during winter period.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1610	1260	1760	---	1790	---	410	345	350	520	690	1030
2	1450	1130	---	1690	1820	---	435	355	335	660	650	1030
3	1580	1230	1970	---	1630	---	460	350	310	670	650	940
4	930	1350	1780	1740	1940	---	485	350	315	670	710	---
5	---	1430	1970	---	---	---	500	335	320	670	850	---
6	1810	1460	1710	1820	---	---	560	330	325	750	690	980
7	1460	1510	1900	2760	---	2100	600	320	340	790	---	1130
8	1240	1540	2970	2750	---	1890	600	320	385	800	670	1240
9	1180	---	3090	2840	---	2290	590	325	---	860	650	970
10	1160	1680	2010	2760	---	2110	590	335	---	920	690	1140
11	1160	1760	---	2060	---	2330	---	350	---	950	790	1380
12	1150	1880	1820	2030	---	2000	580	350	---	960	800	1770
13	1040	1820	2150	---	2120	1970	---	340	---	950	530	1530
14	1100	2000	1860	2040	2090	1740	670	330	---	---	650	1530
15	1110	1170	---	---	2520	1300	750	330	---	940	780	---
16	1070	1980	1670	---	2020	1080	630	325	580	860	700	1170
17	1100	2090	1500	---	1850	1020	---	335	---	850	730	990
18	1120	2320	1550	---	2310	---	---	325	---	---	870	720
19	1200	2380	1640	---	2060	870	---	325	---	860	920	---
20	1190	2070	1920	---	1920	740	390	325	---	910	---	820
21	1170	1840	1740	---	2000	660	370	335	430	880	950	990
22	1210	1640	2360	---	1980	550	355	335	350	900	1020	890
23	1340	1740	2990	---	1690	390	360	355	330	---	1020	890
24	1520	1910	---	---	1800	440	380	350	335	860	1020	790
25	1320	1910	---	---	1730	430	385	340	490	820	1020	880
26	1350	1710	---	---	2020	---	405	350	495	830	1000	950
27	1530	1320	---	2130	2060	450	375	370	---	830	1000	990
28	1440	1270	---	2070	---	450	375	365	---	870	730	1050
29	---	1250	---	---	---	430	355	370	495	1030	710	1090
30	---	1570	---	---	---	---	355	370	500	720	720	1090
31	1430	---	1960	---	---	380	---	380	---	720	710	---
MEAN	1280	1660	2020	2220	1970	1160	479	343	393	823	790	1080

DOLORES RIVER BASIN
09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	8.0	2.0	---	5.0	---	7.5	10.0	18.0	26.0	20.0	26.0
2	15.0	7.0	---	3.0	4.0	---	7.0	10.0	17.0	29.0	20.0	26.0
3	14.0	7.0	.0	---	5.0	---	8.5	11.5	16.0	30.0	22.0	22.0
4	13.0	9.0	.0	4.0	6.0	---	10.0	12.0	16.0	25.0	23.0	---
5	---	8.0	.0	---	---	---	7.0	13.0	16.0	28.0	21.0	---
6	13.0	9.0	2.0	.0	---	---	7.0	13.5	16.0	25.0	22.0	22.0
7	13.0	4.0	2.0	.0	---	5.0	8.5	14.0	15.0	18.0	---	23.0
8	14.0	4.5	2.0	1.0	---	5.0	8.5	13.5	15.0	20.0	24.0	21.0
9	14.0	---	2.0	1.0	---	10.0	9.0	12.0	---	20.0	20.5	21.0
10	14.0	4.0	5.0	1.0	---	10.0	7.0	11.5	---	22.0	20.0	20.0
11	14.0	6.0	---	4.0	---	11.0	---	12.5	---	22.0	19.5	20.0
12	14.0	4.5	5.0	2.0	---	8.0	7.5	13.5	---	19.0	20.0	18.0
13	14.0	7.0	5.0	---	3.5	9.5	---	14.0	---	21.0	19.0	19.0
14	15.0	6.0	3.0	2.0	2.0	11.0	9.5	14.0	---	---	18.5	18.0
15	13.0	3.0	---	---	5.5	8.5	7.0	15.0	---	20.0	19.0	---
16	13.0	6.0	1.0	---	3.0	10.0	12.5	15.0	17.0	20.0	20.0	18.0
17	10.0	2.0	2.0	---	4.0	9.0	---	15.0	---	20.0	20.5	18.0
18	8.0	5.0	.0	---	7.5	---	---	14.0	---	---	24.0	19.0
19	9.0	5.0	.0	---	6.5	9.0	---	14.5	---	25.0	22.0	---
20	9.0	7.0	.0	---	5.0	10.0	11.0	12.0	---	22.0	---	19.0
21	7.0	6.0	.0	---	5.0	11.0	11.0	12.0	18.0	21.0	22.0	18.0
22	5.0	9.0	.0	---	5.0	11.0	11.0	12.0	18.0	22.0	20.0	18.0
23	6.0	9.0	.0	---	3.5	8.0	10.5	12.0	20.0	---	20.0	17.0
24	6.0	6.0	---	---	3.5	8.0	10.0	12.0	19.0	23.0	25.0	15.5
25	5.5	7.0	---	---	2.0	8.0	9.0	10.5	20.0	21.0	25.0	15.0
26	7.0	5.0	---	---	5.0	---	10.0	11.0	19.0	21.0	28.0	17.0
27	6.0	5.0	---	5.0	3.5	9.5	11.5	12.0	---	20.0	28.0	16.0
28	8.0	3.0	---	4.0	---	10.0	12.0	14.0	---	23.0	28.0	17.0
29	---	2.0	---	---	---	11.0	12.0	14.0	26.0	20.0	29.0	15.5
30	---	3.0	---	---	---	---	11.0	16.0	25.0	20.0	27.0	16.0
31	9.0	---	4.0	---	---	11.0	---	18.0	---	20.0	24.0	---
MEAN	10.8	5.8	1.7	2.3	4.4	9.3	9.4	13.0	18.3	22.3	22.4	19.0

LOCATION.--Lat 38°48'38", long 109°17'34", in NW¹/₄NW¹/₄ sec. 17, T. 23 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 from Arizona-Sonora.

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. Elevation of gage is 4,090 ft above sea level, 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 poor. Diversions above station for irrigation and power, including several transmountain diversions. Flow regulated by Blue Mesa Reservoir since Nov. 27, 1965.

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)
May 25	2234	39,800	13.78	June 3	2130	*41,200	*14.12

Minimum discharge, 3,110 ft³/s Dec. 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4190	4900	4690	4280	4670	4650	10400	17800	31400	20900	7300	5680
2	4090	4800	4620	4230	4750	4550	10600	17200	35800	19800	7420	5920
3	4430	4640	4500	4350	4800	4290	10500	15600	39900	17900	7370	5830
4	5900	4810	4470	5030	4820	4070	10900	14600	40500	16600	7160	5620
5	6760	5020	4140	4760	4800	4220	12700	15200	40000	15500	7690	5810
6	5310	4940	4300	4450	4680	4380	11700	17300	39500	14900	8650	6360
7	4850	4990	4380	4120	4750	4470	10300	20500	38300	14200	9010	6590
8	4650	4850	4520	3960	4720	4980	9460	23100	36800	13500	8960	6690
9	4480	4980	4400	3940	4590	5130	9370	24000	38000	12600	8360	6560
10	4390	4720	4430	4150	4460	5380	9730	24000	39400	11700	7950	6330
11	4280	4680	4560	4310	4470	5680	9910	24100	37000	10900	8700	6240
12	4320	4710	4850	4450	4530	6060	9230	24500	36100	10700	10100	6170
13	4240	4640	4830	4460	4660	6490	8570	25200	35200	10200	9850	6270
14	4210	4550	4690	4530	4750	6980	8340	26100	35100	9820	9800	6250
15	4170	4600	4540	4390	4670	7060	8210	26600	33500	9290	9630	6150
16	4140	4760	4410	4360	4630	7400	8540	27200	32300	8730	9110	6640
17	4150	4960	4130	4390	4700	7800	9410	28900	30000	8210	8140	7270
18	4240	4860	3710	4320	4750	8270	11500	30100	28100	7780	7520	6910
19	4210	4740	3380	4350	4950	8590	13300	31300	27700	7850	7070	6760
20	4280	4760	3460	4540	4840	9000	14900	32200	28700	7940	6660	7890
21	4400	4810	3660	4680	4790	10100	16300	32800	30500	7770	6360	13500
22	4620	4890	4240	4740	4710	10900	17200	33300	30500	7510	6180	12300
23	4530	5360	4640	4810	4590	11100	16700	36500	29800	6960	6280	9570
24	4410	5860	4740	4750	4530	11600	15900	38300	28800	7080	6070	8290
25	4570	5500	4430	4740	4600	11900	15300	38500	27300	7340	5860	7630
26	4860	5050	4220	4690	4630	10700	14400	39200	26800	6760	5850	7300
27	4880	5050	4260	4720	4570	9720	14100	36500	25400	6210	6350	7250
28	4900	4890	4520	5030	4620	9790	14500	31400	23500	5980	6620	7750
29	5060	4770	4550	4950	---	10500	16800	28200	22300	6300	5950	7810
30	5270	4640	4460	4740	---	10900	18100	26700	21600	6510	5710	7580
31	5130	---	4340	4770	---	10400	---	29000	---	6650	5660	---
TOTAL	143920	146730	135070	139990	131030	237060	366870	835900	969800	324090	233340	216920
MEAN	4643	4891	4357	4516	4680	7647	12230	26960	32330	10450	7527	7231
MAX	6760	5860	4850	5030	4950	11900	18100	39200	40500	20900	10100	13500
MIN	4090	4550	3380	3940	4460	4070	8210	14600	21600	5980	5660	5620
AC-FT	285500	291000	267900	277700	259900	470200	727700	1658000	1924000	642800	462800	430300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 1997, BY WATER YEAR (WY)

MEAN	3964	3805	3301	3095	3277	3842	8436	19650	22600	9207	4321	3690
MAX	9416	7601	6588	6371	6326	8412	22590	42090	55530	31750	11400	11330
(WY)	1942	1987	1987	1985	1985	1985	1942	1984	1917	1957	1984	1929
MIN	1353	1730	2044	1900	2015	2009	1638	2322	2820	1057	1017	1078
(WY)	1935	1935	1940	1937	1935	1977	1977	1977	1977	1934	1934	1934

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1914 - 1997

ANNUAL TOTAL	2705420	3880720	
ANNUAL MEAN	7392	10630	7437
HIGHEST ANNUAL MEAN			14930
LOWEST ANNUAL MEAN			2631
HIGHEST DAILY MEAN	28700	May 19	73200
LOWEST DAILY MEAN	2590	Aug 16	640
ANNUAL SEVEN-DAY MINIMUM	2780	Aug 13	736
ANNUAL RUNOFF (AC-FT)	5366000	7697000	5388000
10 PERCENT EXCEEDS	17100	28100	18900
50 PERCENT EXCEEDS	4770	6300	3890
90 PERCENT EXCEEDS	3600	4360	2250

COLORADO RIVER MAIN STEM

39

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.

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 observed, 1,270 microsiemens Oct. 6; minimum observed, 310 microsiemens June 5, 6.

WATER TEMPERATURES: Maximum observed, 23.0°C several days in July and August; minimum observed, 0.0°C several days in December and January.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV 20...	1130	4680	1130	8.4	6.0	5.0	62	10.5	96	655	--	340
FEB 19...	1145	4800	930	8.5	2.0	5.0	28	10.6	97	656	--	250
MAR 19...	1105	8990	670	8.3	10.0	8.0	190	10.0	98	657	0.59	200
APR 28...	1100	14300	500	8.3	17.0	11.0	160	9.4	100	650	--	170
MAY 16...	1110	26500	365	8.2	20.0	14.0	120	8.7	98	660	--	130
JUN 02...	1130	35800	350	8.2	30.0	16.0	72	8.5	100	660	--	120
10...	1330	39800	340	8.1	27.0	15.0	68	8.5	98	660	--	120
27...	1030	25700	340	8.3	22.0	17.0	33	8.1	97	660	--	110
JUL 14...	1000	9300	640	8.5	28.0	19.0	30	8.1	102	657	--	200
23...	1100	7200	770	8.5	25.0	22.5	20	6.9	94	650	--	250
AUG 25...	1100	5630	850	8.5	23.0	22.0	22	6.9	93	652	0.66	270
(a)25...	1110	5630	850	8.5	23.0	22.0	22	6.9	93	652	0.68	270
SEP 29...	1130	7810	940	8.4	13.0	16.0	93	7.5	89	652	0.66	320
DATE		HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, SOLVED (MG/L ASCL) (00940)
NOV 20...	190	88	30	100	38	2	4.0	8	168	152	270	110
FEB 19...	120	65	21	79	40	2	3.2	7	149	134	190	92
MAR 19...	81	53	16	51	36	2	2.7	0	144	118	130	50
APR 28...	58	45	13	30	28	1	2.4	0	131	108	99	26
MAY 16...	41	36	9.3	18	23	0.7	1.6	0	108	88	64	13
JUN 02...	38	35	8.8	17	22	0.7	1.4	0	105	86	60	12
10...	43	34	8.6	16	22	0.6	1.4	0	96	79	62	11
27...	40	32	7.8	18	26	0.7	1.4	0	89	73	59	15
JUL 14...	100	56	14	44	32	1	2.3	3	113	97	130	45
23...	140	69	18	56	33	2	2.7	3	123	107	170	57
AUG 25...	140	74	21	60	32	2	3.0	8	146	133	210	59
(a)25...	140	73	21	60	32	2	2.9	8	146	133	210	59
SEP 29...	170	83	27	71	32	2	3.2	6	168	148	240	62

(a) Concurrent replicate

COLORADO RIVER MAIN STEM

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
NOV 20...	0.40	10	730	700.	0.99	9220	0.590	2.6	0.010	0.03	0.600	<0.015
FEB 19...	0.30	6.4	568	539	0.77	7360	0.230	1.0	0.020	0.07	0.250	<0.015
MAR 19...	0.30	9.6	409	385	0.56	9930	--	--	<0.010	--	0.290	0.090
APR 28...	0.23	9.1	315	291	0.43	12100	--	--	<0.010	--	0.294	<0.015
MAY 16...	0.16	9.3	226	206	0.31	16200	--	--	<0.010	--	0.191	0.017
JUN 02...	0.17	10	215	197	0.29	20800	--	--	<0.010	--	0.175	<0.015
10...	0.14	9.2	209	191	0.28	22500	--	--	<0.010	--	0.145	<0.015
27...	0.21	8.5	208	188	0.28	14400	--	--	<0.010	--	0.194	<0.015
JUL 14...	0.26	8.2	399	361	0.54	10000	--	--	<0.010	--	0.269	<0.015
23...	0.27	7.4	491	451	0.67	9550	--	--	<0.010	--	0.345	<0.015
AUG 25...	0.35	9.1	580	522	0.79	8820	0.448	2.0	0.011	0.04	0.459	0.035
(a)25...	0.34	9.0	577	522	0.78	8770	0.461	2.0	0.011	0.04	0.472	0.034
SEP 29...	0.41	12	625	591	0.85	13200	--	--	<0.010	--	0.536	<0.020
DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS ORGANIC TOTAL (MG/L AS P) (00670)	
NOV 20...	--	0.50	--	0.50	<0.20	1.1	0.280	0.030	<0.001	--	0.28	
FEB 19...	--	0.30	--	0.30	<0.20	0.55	0.030	<0.010	<0.001	--	0.03	
MAR 19...	0.12	1.1	0.21	1.2	0.30	1.5	0.360	<0.010	0.004	0.01	0.36	
APR 28...	--	0.89	--	0.89	<0.20	1.2	0.436	<0.010	0.016	0.05	0.44	
MAY 16...	0.02	0.60	--	0.62	<0.20	0.81	0.186	0.015	0.015	0.05	0.19	
JUN 02...	--	0.43	--	0.43	<0.20	0.60	0.136	<0.010	0.008	0.02	0.14	
10...	--	0.47	--	0.47	<0.20	0.62	0.203	0.015	0.008	0.02	0.20	
27...	--	0.34	--	0.34	<0.20	0.54	0.131	<0.010	0.008	0.02	0.13	
JUL 14...	--	0.35	--	0.35	<0.20	0.62	0.116	0.013	0.004	0.01	0.12	
23...	--	0.34	--	0.34	<0.20	0.68	0.089	<0.010	0.002	0.01	0.09	
AUG 25...	0.04	0.29	0.17	0.32	0.20	0.78	0.055	<0.010	0.001	0.00	0.05	
(a)25...	0.04	0.32	0.18	0.36	0.21	0.83	0.056	<0.010	0.002	0.01	0.06	
SEP 29...	--	0.44	--	0.44	0.12	0.98	0.152	0.020	0.012	0.04	0.15	
DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)		
NOV 20...	1130	6.0	<1.0	<1	61	<1.0	<1.0	<1.0	<1.0	2.0		
FEB 19...	1145	1.0	<1.0	<1	56	<1.0	<1.0	1.0	<1.0	3.0		
MAR 19...	1105	2.0	<1.0	<1	56	<1.0	<1.0	<1.0	<1.0	3.0		
APR 28...	1100	3.3	<1.0	1	60	<1.0	<1.0	1.9	<1.0	2.7		
MAY 16...	1110	5.4	<1.0	<1	49	<1.0	<1.0	2.1	<1.0	1.6		
JUN 02...	1130	8.4	<1.0	<1	44	<1.0	<1.0	1.4	<1.0	1.3		
10...	1330	7.9	<1.0	<1	40	<1.0	<1.0	1.5	<1.0	1.4		
27...	1030	9.8	<1.0	1	39	<1.0	<1.0	<1.0	<1.0	1.0		
JUL 14...	1000	3.7	<1.0	<1	51	<1.0	<1.0	2.6	<1.0	<1.0		
23...	1100	4.4	<1.0	1	61	<1.0	<1.0	1.9	<1.0	2.0		
AUG 25...	1100	2.7	<1.0	1	57	<1.0	<1.0	<1.0	<1.0	1.9		
(a)25...	1110	2.1	<1.0	1	58	<1.0	<1.0	<1.0	<1.0	1.9		
SEP 29...	1130	1.9	<1.0	<1	75	<1.0	<1.0	1.9	<1.0	1.6		
(a) Concurrent replicate												

(a) Concurrent replicate

COLORADO RIVER MAIN STEM
09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
NOV 20...	<3.0	<1.0	37	7.0	4.0	1.0	<1.0	990	<6	3.0
FEB 19...	<3.0	<1.0	25	15	4.0	<1.0	<1.0	670	<6	2.0
MAR 19...	<3.0	<1.0	17	7.0	3.0	1.0	<1.0	530	<6	3.0
APR 28...	3.6	<1.0	14	2.4	3.2	1.3	<1.0	428	<6	2.5
MAY 16...	8.6	<1.0	10	2.4	2.8	<1.0	<1.0	328	<6	<1.0
JUN 02...	14	<1.0	10	2.0	2.5	<1.0	<1.0	306	<6	2.3
10...	14	<1.0	8	1.5	2.5	<1.0	<1.0	291	<6	1.6
27...	11	<1.0	8	2.0	5.0	<1.0	<1.0	272	<6	1.8
JUL 14...	4.9	<1.0	18	2.4	4.9	1.2	<1.0	535	<6	1.1
23...	4.0	<1.0	24	1.3	5.7	<1.0	<1.0	698	<6	1.5
AUG 25...	<3.0	<1.0	29	<1.0	6.0	1.7	<1.0	776	<6	<1.0
(a)25...	<3.0	<1.0	29	<1.0	6.7	1.9	<1.0	778	<6	1.0
SEP 29...	<3.0	<1.0	31	<1.0	3.9	1.6	<1.0	918	<6	<1.0

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B) (01020)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
NOV 20...	1130	69	4
FEB 19...	1145	48	3
MAR 19...	1105	35	2
APR 28...	1100	29	1
MAY 16...	1110	23	1
JUN 02...	1130	22	<1
10...	1330	21	<1
27...	1030	16	<1
JUL 14...	1000	35	2
23...	1100	45	3
AUG 25...	1100	54	4
(a)25...	1110	56	4
SEP 29...	1130	68	4

DATE	TIME	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
NOV 20...	1130	5.0
FEB 19...	1145	4.0
MAR 19...	1105	3.0
APR 28...	1100	1.9
MAY 16...	1110	1.3
JUN 02...	1130	1.4
10...	1330	1.4
27...	1030	1.5
JUL 14...	1000	2.7
23...	1100	3.3
AUG 25...	1100	4.0
(a)25...	1110	3.9
SEP 29...	1130	4.3

(a) Concurrent replicate

COLORADO RIVER MAIN STEM
09180500 COLORADO RIVER NEAR CISCO, UT--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME											
		CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)		CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)								
NOV 20...	1130		1.5		1.2							
FEB 19...	1145		2.5		1.3							
MAR 19...	1105		3.2		5.6							
APR 28...	1100		4.5		>5.0							
MAY 16...	1110		5.1		5.0							
JUN 02...	1130		5.0		3.4							
10...	1330		4.5		2.6							
27...	1030		3.5		1.3							
JUL 14...	1000		3.4		2.3							
23...	1100		3.1		1.5							
AUG 25...	1100		3.2		0.50							
(a)25...	1110		3.0		0.60							
SEP 29...	1130		3.0		2.4							
DATE	TIME	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
NOV 20...	1130	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
FEB 19...	1145	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
MAR 19...	1105	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
APR 28...	1100	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
MAY 16...	1110	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	E0.004	<0.004	<0.010
JUN 02...	1130	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
10...	1330	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
27...	1030	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.006	<0.006	<0.002	<0.004	<0.010
JUL 14...	1000	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
23...	1100	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
AUG 25...	1100	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
(a)25...	1110	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
SEP 29...	1130	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010

(a) Concurrent replicate

COLORADO RIVER MAIN STEM
09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)
NOV 20...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
FEB 19...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
MAR 19...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
APR 28...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
MAY 16...	<0.004	<0.003	<0.002	E0.040	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
JUN 02...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
10...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
27...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.015	<0.002
JUL 14...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
23...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
AUG 25...	<0.004	<0.003	<0.002	<0.020	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
(a)25...	<0.004	<0.003	<0.002	<0.010	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
SEP 29...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002

DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL- AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	TERBUTH YLAZINE SURROGT WAT FLT 0.7 U GF, REC PERCENT (91064)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	SET NUMBER SCHED- ULE 2001 (NO.) (99818)	SAMPLE VOLUME SCHED- ULE 2001 (ML) (99856)
NOV 20...	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	85.1	101	103	3804	909
FEB 19...	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	86.4	99.1	74.5	4028	943
MAR 19...	E0.003	<0.004	<0.003	<0.013	<0.001	<0.005	96.4	104	83.2	--	900
APR 28...	E0.004	<0.004	<0.003	<0.013	<0.001	<0.005	84.9	89.9	99.2	4242	840
MAY 16...	E0.003	<0.004	<0.003	<0.013	<0.001	<0.005	99.1	116	112	4323	877
JUN 02...	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	103	109	105	4378	934
10...	E0.001	<0.004	<0.003	<0.013	<0.150	<0.005	100	127	108	4412	826
27...	E0.002	<0.004	<0.003	<0.013	--	<0.005	106	118	106	4506	943
JUL 14...	E0.004	<0.004	<0.003	<0.013	<0.001	<0.005	103	127	96.7	4566	826
23...	E0.003	<0.004	<0.003	E0.008	E0.063	<0.005	98.3	112	116	4610	847
AUG 25...	E0.001	<0.004	<0.003	<0.013	<0.130	<0.005	124	128	96.6	4746	854
(a)25...	E0.001	<0.004	<0.003	<0.013	<0.030	<0.005	108	132	100	4746	833
SEP 29...	E0.001	<0.004	<0.003	<0.013	<0.001	<0.005	102	117	98.3	4884	862

(a) Concurrent replicate

COLORADO RIVER MAIN STEM
09180500 COLORADO RIVER NEAR CISCO, UT--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)
NOV										
20...	1130	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006
FEB										
19...	1145	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006
MAR										
19...	1105	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006
APR										
28...	1100	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	E0.004
MAY										
16...	1110	<0.007	<0.002	<0.005	<0.018	<0.002	0.014	<0.003	<0.002	<0.006
JUN										
02...	1130	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006
10...	1330	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006
27...	1030	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006
JUL										
14...	1000	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006
23...	1100	<0.007	<0.002	<0.005	<0.018	E0.002	0.006	<0.003	<0.002	E0.002
AUG										
25...	1100	<0.007	<0.002	<0.005	<0.018	E0.002	<0.004	<0.003	<0.002	<0.006
(a)25...	1110	<0.007	<0.002	<0.005	<0.018	E0.002	<0.004	<0.003	<0.002	<0.006
SEP										
29...	1130	<0.007	<0.002	<0.005	E0.003	<0.002	<0.004	<0.003	<0.002	<0.006

DATE	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)
NOV										
20...	<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	E0.004	<0.001	<0.002	<0.002
FEB										
19...	<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002
MAR										
19...	<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	0.008	<0.001	<0.002	<0.002
APR										
28...	0.004	<0.004	<0.001	0.005	<0.005	<0.004	<0.002	0.005	0.009	<0.002
MAY										
16...	<0.004	<0.004	<0.001	0.012	<0.005	<0.004	<0.002	<0.001	0.012	<0.002
JUN										
02...	<0.004	<0.004	<0.001	0.005	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002
10...	<0.004	<0.004	<0.001	E0.003	E0.003	<0.004	<0.002	E0.003	0.006	<0.002
27...	<0.004	<0.004	<0.001	0.009	<0.005	<0.004	<0.002	<0.008	0.005	<0.002
JUL										
14...	<0.004	<0.004	<0.001	0.012	<0.005	<0.004	<0.002	0.008	0.009	<0.002
23...	E0.003	<0.004	<0.001	0.008	<0.005	<0.004	<0.002	0.007	0.006	<0.002
AUG										
25...	<0.004	<0.004	<0.001	0.004	<0.005	<0.004	<0.002	0.004	E0.003	<0.002
(a)25...	<0.004	<0.004	<0.001	0.005	<0.005	<0.004	<0.002	E0.004	E0.003	<0.002
SEP										
29...	<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	0.005	<0.002	<0.002

(a) Concurrent replicate

COLORADO RIVER MAIN STEM

45

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1110	1140	1020	980	960	---	580	490	345	405	890	970
2	1130	1100	1040	---	910	---	580	495	320	410	890	960
3	1180	1090	1050	---	920	---	620	520	315	425	850	970
4	1080	1090	1020	1010	920	900	640	540	370	450	830	1000
5	1140	1080	1050	970	920	920	670	550	310	475	860	990
6	1270	1070	1010	990	930	960	640	520	310	495	830	960
7	1170	1070	1060	1060	920	920	660	470	320	495	900	1020
8	1120	1070	1110	1010	930	870	640	430	315	510	850	990
9	1110	1060	1090	1020	910	870	640	405	315	530	810	990
10	1100	1060	1020	1020	890	830	660	395	355	560	840	970
11	1110	1070	1030	1050	880	800	690	395	365	580	810	960
12	1120	1080	1060	1070	900	780	670	400	350	610	820	990
13	1120	1070	1030	1060	920	750	670	390	350	620	800	1000
14	1120	1060	1030	980	930	710	680	385	345	640	760	1010
15	1120	1040	1030	960	920	---	680	385	350	650	750	1000
16	1130	1070	1010	940	890	660	690	370	355	670	760	1010
17	1140	1070	1010	960	870	660	680	375	365	680	770	980
18	1140	1050	1020	980	890	660	640	365	370	700	790	1020
19	1130	1090	1030	940	880	650	570	355	370	720	860	970
20	1140	1070	1090	930	910	650	530	345	355	740	850	1040
21	1130	---	---	1020	930	600	495	360	330	770	870	1130
22	1130	1080	1110	990	930	600	475	360	325	780	880	1090
23	1130	1090	1180	930	880	590	480	370	330	790	880	1000
24	1120	1040	1110	930	890	590	480	370	330	800	870	950
25	1110	1000	1000	900	870	570	500	360	335	810	890	950
26	1120	1000	990	920	890	560	540	380	335	830	890	940
27	1110	1020	990	910	890	560	550	440	345	850	900	950
28	1100	---	980	900	880	590	560	420	365	870	920	950
29	1100	1000	1000	950	---	590	530	430	380	960	930	940
30	1100	980	980	910	---	580	510	445	385	920	940	900
31	1100	---	970	910	---	580	---	410	---	910	950	---
MEAN	1130	1060	1040	972	906	704	598	417	344	666	853	987

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	8.0	3.0	4.0	3.0	---	8.0	11.0	15.0	18.0	22.0	21.0
2	15.0	8.0	3.0	---	3.0	---	8.0	11.0	15.0	18.0	22.0	21.0
3	16.0	8.0	3.0	---	3.0	---	8.0	12.0	15.0	18.0	22.0	21.0
4	16.0	8.0	3.0	1.0	4.0	8.0	8.0	14.0	16.0	18.0	22.0	21.0
5	16.0	8.0	2.0	1.0	4.0	8.0	8.0	14.0	15.0	17.0	22.0	21.0
6	16.0	8.0	3.0	1.0	4.0	8.0	8.0	15.0	15.0	18.0	22.0	21.0
7	17.0	8.0	3.0	1.0	4.0	9.0	8.0	14.0	15.5	18.0	22.0	20.0
8	17.0	8.0	3.0	1.0	4.0	9.0	8.0	14.0	15.0	18.0	22.0	20.0
9	17.0	8.0	3.0	1.0	4.0	9.0	8.0	14.0	15.0	19.0	22.0	20.0
10	17.0	8.0	3.0	1.0	4.0	9.0	8.0	14.0	15.5	19.0	22.0	20.0
11	17.0	8.0	4.0	2.0	5.0	9.0	8.0	14.0	15.0	19.0	22.0	20.0
12	17.0	8.0	4.0	2.0	5.0	10.0	8.0	14.0	15.0	19.0	22.0	20.0
13	17.0	8.0	3.0	2.0	6.0	10.0	8.0	14.0	15.0	20.0	23.0	20.0
14	17.0	8.0	3.0	1.0	6.0	10.0	8.0	14.0	15.5	20.0	23.0	20.0
15	15.0	8.0	3.0	1.0	6.0	---	10.0	14.0	16.0	20.0	22.0	18.0
16	15.0	8.0	3.0	.0	7.0	10.0	12.0	14.0	16.0	20.0	22.0	18.0
17	15.0	8.0	2.0	.0	8.0	10.0	14.0	14.0	16.0	22.0	22.0	18.0
18	15.0	8.0	.0	.0	8.0	10.0	14.0	14.0	17.0	22.0	22.0	18.0
19	11.0	8.0	.0	.0	8.0	10.0	14.0	14.0	17.0	22.0	22.0	18.0
20	10.0	6.0	.0	1.0	8.0	10.0	14.0	14.0	17.0	22.0	22.0	18.0
21	10.0	---	---	2.0	8.0	10.0	13.0	14.0	17.5	23.0	21.0	17.0
22	9.0	7.0	.0	2.0	8.0	10.0	12.0	14.0	17.5	23.0	22.0	17.0
23	9.0	7.0	.0	2.0	8.0	10.0	11.0	14.0	17.0	23.0	22.0	17.0
24	9.0	7.0	.0	2.0	8.0	10.0	11.0	14.0	17.0	23.0	22.5	17.0
25	7.0	7.0	.0	2.0	8.0	10.0	11.0	14.0	17.0	23.0	23.0	17.0
26	7.0	7.0	.0	3.0	8.0	10.0	11.0	14.0	17.5	23.0	22.0	17.0
27	7.0	7.0	1.0	4.0	8.0	11.0	12.0	14.0	18.0	23.0	22.0	17.0
28	7.0	---	2.0	4.0	8.0	10.0	12.0	14.0	17.0	23.0	22.0	17.0
29	7.0	6.0	2.0	4.0	---	10.0	12.0	14.0	17.0	23.0	22.0	17.0
30	7.0	5.0	3.0	5.0	---	10.0	12.0	14.0	17.0	23.0	22.0	17.0
31	7.0	---	4.0	5.0	---	11.0	---	14.0	---	23.0	22.0	---
MEAN	12.8	7.5	2.1	1.9	6.0	9.7	10.2	13.8	16.1	20.6	22.1	18.8

COLORADO RIVER MAIN STEM

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

SUSPENDED SEDIMENT DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
NOV						
20...	1200	4680	5.0	--	133	1680
20...	1201	4680	5.0	91	121	1530
FEB						
19...	1230	4800	5.0	--	69	894
MAR						
19...	1115	8990	8.0	84	635	15400
19...	1116	8990	8.0	--	601	14600
APR						
28...	1120	14300	11.0	--	808	31200
28...	1121	14300	11.0	58	895	34600
MAY						
16...	1000	26500	14.0	--	699	50000
16...	1001	26500	14.0	59	681	48700
JUN						
02...	1200	35800	16.0	51	567	54800
02...	1201	35800	16.0	--	579	56000
10...	1420	39800	15.0	--	355	38100
10...	1421	39800	15.0	61	380	40800
27...	1115	25700	17.0	--	225	15600
27...	1116	25700	17.0	49	230	16000
JUL						
14...	1045	9300	19.0	--	227	5700
14...	1046	9300	19.0	44	228	5730
23...	1200	7200	22.5	--	112	2180
AUG						
25...	1145	5630	22.0	--	65	988
25...	1146	5630	22.0	--	95	1440
25...	1147	5630	22.0	--	76	1160
25...	1148	5630	22.0	--	69	1050
25...	1149	5630	22.0	--	150	2280
25...	1150	5630	22.0	--	74	1120
(a)25...	1200	5630	22.0	82	71	1080
(a)25...	1201	5630	22.0	80	79	1200
(a)25...	1202	5630	22.0	82	70	1060
(a)25...	1203	5630	22.0	87	79	1200
(a)25...	1204	5630	22.0	84	69	1050
(a)25...	1205	5630	22.0	89	76	1160
SEP						
29...	1230	7810	16.0	--	373	7870
29...	1231	7810	16.0	92	520	11000

(a) Concurrent replicate

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER
09182200 CASTLE CREEK BELOW CASTLETON NEAR MOAB, UT

47

LOCATION.--Lat 38°36'45", long 109°19'54", in SE¹/₄NW¹/₄SW¹/₄ sec. 24, T. 25 S., R. 23 E., Grand County, Hydrologic Unit 14030005, on left bank and 25.5 mi northwest of Moab.

DRAINAGE AREA.--17.6 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 5,600 ft above sea level, from topographic map.

REMARKS.--Records poor. Small diversions for irrigation above and below the station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 650 ft³/s Sept. 12, 1996, gage height, 5.50 ft, from slope-area measurement; minimum daily discharge, 1.4 ft³/s Sept. 10, 1994.

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)
Aug. 3	1915	*107	*5.40	Sept. 6	1100	34	4.44
Aug. 26	1230	21	4.28	Sept. 11	1730	67	4.13

Minimum daily discharge, 1.7 ft³/s Apr. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.3	3.0	2.5	2.6	2.6	2.7	e1.7	4.5	6.3	5.1	3.8	3.3
2	e2.5	3.0	2.6	2.6	2.7	2.7	e1.8	4.5	10	5.1	4.0	3.3
3	e2.8	3.0	e2.5	3.2	2.7	2.7	e1.9	4.5	10	5.0	e5.0	3.3
4	2.1	3.0	2.5	2.8	2.7	2.7	e2.2	4.5	10	4.9	e4.5	3.3
5	2.3	3.0	2.6	2.7	2.7	e2.6	e2.5	5.2	9.2	4.8	e5.3	3.3
6	2.4	2.6	2.7	2.7	2.7	2.6	e2.4	5.8	9.0	4.7	e4.2	e6.0
7	2.5	2.2	2.6	e2.5	e2.7	2.7	e2.4	6.6	8.8	4.6	e4.0	e5.0
8	2.6	2.3	2.6	2.6	e2.7	2.6	e2.3	6.7	8.5	4.6	e3.4	e4.0
9	2.6	2.3	2.6	2.6	e2.6	2.6	e2.4	6.9	8.3	4.5	e3.4	e3.3
10	2.6	2.2	2.8	2.8	2.6	2.4	e2.4	6.7	8.1	4.3	e3.5	3.2
11	2.5	2.2	2.7	2.8	2.6	2.2	e2.4	6.5	7.7	4.3	e3.4	7.7
12	2.6	2.2	2.6	2.8	2.7	2.2	e2.3	6.7	7.5	4.2	e3.3	3.3
13	2.6	2.2	2.6	2.8	2.7	2.1	e2.2	6.9	7.3	4.2	e3.4	e8.4
14	2.6	2.2	2.6	2.7	e2.6	2.1	e2.2	7.0	7.3	4.1	e3.5	e3.5
15	2.8	2.5	2.5	e2.6	2.6	e2.0	e1.9	7.0	7.2	4.1	e3.3	e3.6
16	2.8	2.5	2.6	e2.5	2.6	e2.0	e1.9	7.2	7.1	4.0	e3.0	e3.5
17	2.9	2.4	e2.5	e2.4	2.6	e2.0	1.9	7.7	6.8	4.0	e2.9	e3.3
18	3.0	2.4	e2.5	e2.4	2.6	e2.0	2.0	7.6	6.7	4.0	e2.9	e3.4
19	3.0	2.3	e2.5	e2.5	2.7	e2.0	1.9	8.6	6.5	4.1	e2.7	e3.7
20	2.7	2.3	e2.5	2.6	2.7	e2.0	1.9	9.2	6.3	4.0	2.6	e4.2
21	2.4	2.4	2.5	2.6	e2.5	e2.0	2.0	11	6.3	3.9	3.1	e3.6
22	2.7	2.8	2.5	2.6	2.6	e2.0	2.0	11	6.1	4.0	2.9	e3.4
23	2.6	2.6	2.5	2.7	2.7	e2.1	2.3	11	6.0	3.9	2.9	e3.4
24	2.6	2.6	e2.5	2.6	e2.6	e1.9	2.6	11	5.8	3.9	2.8	e3.3
25	2.8	2.6	2.5	2.7	2.6	e1.9	2.6	11	5.8	3.9	3.0	e3.2
26	2.7	2.6	2.6	2.7	2.6	e2.2	2.6	11	5.8	3.8	7.1	e3.3
27	2.6	2.6	2.7	2.6	2.6	e2.1	2.6	9.8	5.6	3.8	6.7	e3.5
28	2.9	2.6	2.6	2.6	2.8	e2.0	2.9	9.3	5.5	4.0	2.7	e3.4
29	2.9	2.7	2.6	2.6	---	e2.0	3.3	7.9	5.3	3.9	2.7	e3.3
30	3.0	2.6	2.6	2.6	---	e1.9	3.9	6.7	5.2	4.0	3.0	e3.3
31	3.0	---	2.6	2.6	---	e1.8	---	6.4	---	3.9	3.4	---
TOTAL	82.4	75.9	79.8	82.1	74.1	68.8	69.4	236.4	216.0	131.6	112.4	116.3
MEAN	2.66	2.53	2.57	2.65	2.65	2.22	2.31	7.63	7.20	4.25	3.63	3.88
MAX	3.0	3.0	2.8	3.2	2.8	2.7	3.9	11	10	5.1	7.1	8.4
MIN	2.1	2.2	2.5	2.4	2.5	1.8	1.7	4.5	5.2	3.8	2.6	3.2
AC-FT	163	151	158	163	147	136	138	469	428	261	223	231

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1997, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997
MEAN	2.35	2.26	2.19	2.24	2.40	2.35
MAX	3.00	2.93	2.75	2.65	2.65	2.50
(WY)	1996	1996	1996	1997	1997	1996
MIN	1.73	1.84	1.85	1.94	2.27	2.22
(WY)	1995	1993	1995	1993	1994	1997

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1992 - 1997

ANNUAL TOTAL	1008.0	1345.2	
ANNUAL MEAN	2.75	3.69	
HIGHEST ANNUAL MEAN			4.35 1993
LOWEST ANNUAL MEAN			2.43 1994
HIGHEST DAILY MEAN	8.8 Sep 12	11 May 21	29 May 27 1993
LOWEST DAILY MEAN	1.7 Aug 13	1.7 Apr 1	1.4 Sep 10 1994
ANNUAL SEVEN-DAY MINIMUM	1.7 Aug 29	1.9 Mar 28	1.5 Sep 4 1994
ANNUAL RUNOFF (AC-FT)	2000	2670	2520
10 PERCENT EXCEEDS	3.9	6.8	5.9
50 PERCENT EXCEEDS	2.5	2.7	2.5
90 PERCENT EXCEEDS	2.0	2.2	1.8

e Estimated

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

09182400 CASTLE CREEK BELOW CASTLE VALLEY NEAR MOAB, UT

LOCATION.--Lat 38°40'26", long 109°26'58", in SE¹/₄SW¹/₄NE¹/₄ sec. 35, T. 24 S., R. 22 E., Grand County, Hydrologic Unit 14030005, on left bank and 16.5 mi northwest of Moab.

DRAINAGE AREA.--58.1 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 4,120 ft above sea level, from topographic map.

REMARKS.--Records poor. Small diversions for irrigation above and below the station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 288 ft³/s, May 27, 1993, gage-height, 7.68 ft, from slope-area measurement; minimum daily discharge, 3.2 ft³/s several days in July, 1994.

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 19	1830	58	5.70	Sept. 13	1345	*321	*7.46

Minimum daily discharge, 4.3 ft³/s July 10-12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	8.4	7.8	6.9	6.1	7.1	4.8	6.2	8.0	e5.3	e5.6	5.3
2	7.1	8.4	7.7	6.9	6.1	7.1	5.0	6.5	8.5	e5.3	e5.4	6.2
3	9.1	8.4	7.2	7.7	6.3	7.1	5.2	6.6	9.3	e5.1	e5.2	6.6
4	7.4	8.4	7.1	7.1	6.1	7.2	6.0	6.3	9.3	e5.0	e6.3	6.4
5	6.7	8.3	7.2	6.9	6.1	7.0	6.8	5.8	9.3	e4.9	e9.3	6.4
6	6.6	8.5	7.7	6.8	6.2	7.0	6.4	5.1	8.5	e4.8	7.6	e9.6
7	6.4	8.6	7.4	6.3	6.5	7.0	6.3	5.0	7.7	e4.7	7.6	e9.0
8	7.2	8.7	7.1	6.8	6.7	7.0	6.1	4.9	8.0	e4.7	6.6	e8.4
9	7.9	8.6	6.7	7.0	6.6	6.9	6.5	4.9	e8.1	e4.5	6.6	8.0
10	8.1	8.6	6.8	7.2	6.7	6.8	6.4	5.0	e8.1	4.3	6.7	8.3
11	7.7	8.7	6.8	7.0	6.8	6.8	6.3	5.0	e7.9	4.3	6.5	11
12	6.7	9.0	6.6	7.0	6.9	6.8	6.0	5.1	e7.6	4.3	6.6	10
13	6.7	9.0	6.4	7.0	6.9	6.7	5.9	5.3	e7.5	4.4	6.9	17
14	7.1	9.0	6.4	7.0	6.8	6.7	5.7	5.4	e7.5	4.6	7.1	6.3
15	7.2	9.0	6.2	6.7	6.8	6.7	4.9	5.6	e7.4	4.4	7.0	6.6
16	7.9	9.3	6.3	6.5	6.7	6.7	4.9	5.7	e7.3	4.4	6.6	6.6
17	7.7	8.9	e6.3	6.3	6.8	6.7	5.1	6.2	e7.0	4.4	6.7	6.2
18	7.1	9.0	e6.3	6.3	6.7	6.7	5.2	6.5	e6.9	4.4	6.9	6.4
19	7.2	8.8	e6.3	6.6	6.7	6.6	4.6	6.6	e6.7	8.1	6.7	7.4
20	7.1	8.8	e6.3	6.8	7.0	6.5	4.5	7.0	e6.5	7.7	6.8	8.4
21	7.2	9.1	6.8	6.9	6.7	6.6	4.4	9.6	e6.4	5.9	6.9	7.1
22	7.6	10	7.2	7.0	6.8	6.5	4.5	12	e6.3	e6.2	7.0	6.7
23	7.9	8.8	7.0	7.4	6.9	6.7	5.1	12	e6.1	e6.0	6.6	6.7
24	7.7	8.2	6.7	6.9	6.9	5.7	5.4	11	e5.9	e5.9	6.8	6.5
25	9.1	8.2	6.8	7.0	6.9	5.6	5.0	11	e5.9	e5.8	6.8	6.2
26	9.1	8.0	6.9	7.0	6.9	6.9	5.4	12	e5.9	e5.7	8.9	6.4
27	9.0	8.0	7.5	6.3	7.0	6.2	5.3	11	e5.8	e5.6	7.4	6.6
28	10	8.0	7.3	6.3	7.4	5.8	5.8	9.7	e5.7	e6.2	7.2	6.4
29	8.8	8.1	7.0	6.3	---	5.7	6.7	8.4	e5.5	e6.0	5.9	6.2
30	8.4	8.1	6.9	6.4	---	5.6	6.6	8.3	e5.4	e6.0	5.1	6.1
31	8.4	---	6.9	6.1	---	5.2	---	8.0	---	e5.8	4.9	---
TOTAL	238.9	258.9	213.6	210.4	187.0	203.6	166.8	227.7	216.0	164.7	208.2	225.0
MEAN	7.71	8.63	6.89	6.79	6.68	6.57	5.56	7.35	7.20	5.31	6.72	7.50
MAX	10	10	7.8	7.7	7.4	7.2	6.8	12	9.3	8.1	9.3	17
MIN	6.4	8.0	6.2	6.1	6.1	5.2	4.4	4.9	5.4	4.3	4.9	5.3
AC-FT	474	514	424	417	371	404	331	452	428	327	413	446

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1997, BY WATER YEAR (WY)

MEAN	7.02	8.03	7.53	7.52	7.14	7.31	6.80	8.02	8.34	5.81	5.16	5.79
MAX	7.93	8.63	8.36	8.53	7.98	8.36	8.43	17.2	15.4	9.85	6.72	7.50
(WY)	1994	1997	1996	1993	1996	1993	1993	1993	1993	1995	1997	1997
MIN	5.85	6.87	6.89	6.46	6.45	6.46	5.56	4.69	4.44	3.31	3.56	4.13
(WY)	1995	1995	1997	1995	1995	1995	1997	1996	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR WATER YEARS 1992 - 1997

ANNUAL TOTAL	2400.0	2520.8	7.11
ANNUAL MEAN	6.56	6.91	8.84
HIGHEST ANNUAL MEAN			1993
LOWEST ANNUAL MEAN			1994
HIGHEST DAILY MEAN	10	17	34
LOWEST DAILY MEAN	4.1	4.3	3.2
ANNUAL SEVEN-DAY MINIMUM	4.1	4.4	3.2
ANNUAL RUNOFF (AC-FT)	4760	5000	5150
10 PERCENT EXCEEDS	8.6	8.7	8.6
50 PERCENT EXCEEDS	6.9	6.7	6.7
90 PERCENT EXCEEDS	4.3	5.2	4.5

e Estimated

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER
09183500 MILL CREEK AT SHELEY TUNNEL, NEAR MOAB, UT

49

LOCATION.--Lat 38°28'59", long 109°24'12", in NW¹/₄NW¹/₄SW¹/₄, sec. 4, T. 27 S., R. 23 E. in San Juan County, Hydrologic Unit 14030005 on the left bank 1,000 ft above Sheley Tunnel, and 9 mi southeast of Moab.

DRAINAGE AREA.--26.8 mi².

PERIOD OF RECORD.--October 1954 to September 1959, October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,500 ft above sea level, from a topographic map. Prior to Oct. 1, 1987 at different site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Small diversion for irrigation above the station. Sheley Tunnel, which diverts water from Mill Creek for K. E. McDougald Reservoir, is located 1,000 ft below the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft³/s Aug. 8, 1993, gage height, 7.66 ft from floodmarks, from rating curve extended above 340 ft³/s on basis of slope-area measurement of peak flow; minimum recorded, 2.1 ft³/s Apr. 5, 1955.

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)
Oct. 3	0145	271	4.43	Aug. 13	1727	130	3.57
May 21	1345	*322	*4.66	Sept. 13	1115	287	4.48
May 24	1545	94	3.30				

Minimum daily discharge, 3.6 ft³/s Dec. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	6.3	4.7	5.1	4.8	4.6	7.4	e20	42	18	9.5	11
2	10	6.2	5.1	5.0	4.9	4.6	7.2	17	46	17	8.9	10
3	26	6.2	4.0	7.4	4.8	4.6	7.2	18	45	17	9.6	10
4	7.5	6.2	4.4	5.4	4.8	4.6	12	e24	45	17	15	9.9
5	7.3	6.2	4.7	4.9	4.8	4.5	7.4	e30	44	16	22	9.1
6	7.0	6.0	5.3	5.0	4.9	4.6	6.7	e32	43	15	15	11
7	6.9	5.4	5.2	4.9	4.6	4.6	6.7	e34	41	15	14	12
8	7.0	6.1	5.2	5.5	4.7	4.7	6.7	e38	39	15	14	11
9	6.9	6.0	5.2	5.2	4.8	4.6	6.7	35	39	14	14	10
10	7.0	5.8	5.6	5.0	4.6	4.8	6.6	31	41	14	14	9.9
11	6.9	5.7	5.5	5.0	4.6	5.3	6.0	29	40	14	14	9.9
12	6.9	5.8	5.4	5.0	4.6	6.3	6.1	32	39	13	13	10
13	6.9	5.8	5.4	5.1	4.6	5.9	6.3	39	36	13	15	17
14	6.8	5.8	5.2	5.1	4.5	5.5	6.4	39	35	13	11	8.8
15	6.5	6.1	3.6	4.8	4.6	5.6	6.8	41	32	13	11	11
16	6.6	5.8	5.7	e4.7	4.5	5.7	7.4	47	30	13	11	12
17	6.4	5.6	e5.2	e4.5	4.5	5.8	8.7	49	28	13	11	10
18	6.4	6.0	e5.0	e4.7	4.6	5.6	11	49	26	13	11	9.8
19	6.5	5.7	e5.2	e4.8	4.5	5.9	12	48	27	13	11	9.9
20	6.4	5.8	e5.3	5.0	4.6	6.6	14	45	28	12	11	12
21	6.1	5.7	5.7	5.0	4.4	7.3	15	56	28	12	9.9	15
22	6.2	7.6	5.4	5.0	4.2	7.2	14	42	27	11	9.7	14
23	6.4	6.6	5.4	4.9	4.7	7.7	16	41	26	11	9.3	12
24	6.3	5.9	5.2	4.7	4.5	7.8	13	42	24	11	9.1	12
25	7.6	5.9	5.2	4.9	4.7	6.9	12	39	23	11	9.3	12
26	6.4	5.8	5.2	5.0	4.7	7.0	12	34	22	9.8	12	12
27	6.2	4.9	5.2	5.0	4.8	7.3	13	30	21	9.6	12	12
28	9.3	5.2	5.4	4.8	4.9	7.2	20	27	20	10	12	11
29	6.8	5.8	5.2	4.8	---	7.3	e21	27	20	11	11	11
30	6.4	5.1	5.2	4.7	---	7.0	19	30	19	9.9	9.0	11
31	6.4	---	5.2	4.8	---	7.4	---	39	---	9.8	10	---
TOTAL	236.0	177.0	159.2	155.7	130.2	184.5	314.3	1104	976	404.1	368.3	336.3
MEAN	7.61	5.90	5.14	5.02	4.65	5.95	10.5	35.6	32.5	13.0	11.9	11.2
MAX	26	7.6	5.7	7.4	4.9	7.8	21	56	46	18	22	17
MIN	6.1	4.9	3.6	4.5	4.2	4.5	6.0	17	19	9.6	8.9	8.8
AC-FT	468	351	316	309	258	366	623	2190	1940	802	731	667

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955-59, 1988-97 BY WATER YEAR (WY)

	MEAN	7.34	6.68	6.12	5.79	6.42	11.2	29.0	28.9	14.9	10.0	8.86
MAX	12.1	15.6	11.0	8.82	8.06	9.43	22.2	70.5	67.9	40.7	18.7	13.5
(WY)	1958	1988	1988	1988	1988	1988	1958	1958	1957	1995	1993	1993
MIN	4.84	3.89	4.30	4.60	4.48	4.88	5.42	8.03	7.08	5.32	4.69	5.00
(WY)	1957	1957	1955	1957	1956	1957	1990	1990	1959	1959	1990	1959

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEARWATER YEARS 1955-59, 1988-97

ANNUAL TOTAL	3211.7	4545.6
ANNUAL MEAN	8.78	12.5
HIGHEST ANNUAL MEAN		12.0
LOWEST ANNUAL MEAN		20.4
HIGHEST DAILY MEAN	32 May 16	141 May 27 1993
LOWEST DAILY MEAN	3.6 Dec 15	2.8 Nov 2 1956
ANNUAL SEVEN-DAY MINIMUM	4.2 Aug 30	3.2 Oct 30 1956
ANNUAL RUNOFF (AC-FT)	6370	8670
10 PERCENT EXCEEDS	16	23
50 PERCENT EXCEEDS	6.4	7.5
90 PERCENT EXCEEDS	5.2	5.0

e Estimated

GREEN RIVER BASIN

09217000 GREEN RIVER NEAR GREEN RIVER, WY

LOCATION.--Lat 41°30'59", long 109°26'54", in NW¹/₄ 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.--14,000 mi², of which 4,260 mi², including 3,959 mi² in Great Divide Basin in southern Wyoming, probably is 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 sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 3 to Mar. 17. Records good except those for estimated daily discharges, 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. National Weather Service data collection platform with satellite telemetry at station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	1160	1130	1050	1050	1050	1370	2060	7620	7260	1460	1430
2	1140	1160	1080	1050	1050	1050	1330	2140	7710	6810	1450	1440
3	1170	1160	1000	1050	1050	1050	1360	2230	7770	5990	1430	1230
4	1170	1140	900	1000	1050	1030	1360	2210	7720	5870	1430	1090
5	1150	1180	1000	1000	1050	1050	1350	2200	7660	5870	1560	1080
6	1140	1170	1100	992	1050	1050	1360	2380	7680	5950	1910	1070
7	1060	1110	1100	1000	1100	1050	1390	2520	7720	5970	2220	1060
8	905	1070	1100	1000	1100	1050	1370	2720	7930	5170	2700	1070
9	904	1060	1100	1000	1100	1050	1330	3040	8120	4140	2810	1060
10	916	1060	1050	1000	1100	1100	1290	3090	8250	3300	2820	1050
11	913	1060	1050	1050	1100	1500	1330	3040	8890	2550	2850	1060
12	908	1060	1050	1050	1100	2200	1290	3050	10400	2130	2850	1070
13	901	1080	1050	1050	1100	3000	1290	3310	10900	2110	2840	1130
14	932	1140	1050	1050	1100	2800	1290	3380	11500	2120	2820	1230
15	932	1140	1050	1050	1100	2600	1290	3560	11600	1940	2800	1240
16	997	1110	1050	1050	1100	2300	1310	3720	11800	1800	2820	1240
17	1100	1100	1050	1050	1100	2100	1310	4160	11700	1770	2800	1230
18	1150	1110	1050	1050	1100	2040	1290	4280	11800	1780	2820	1220
19	1160	1130	1050	1050	1100	2310	1430	4330	11800	1760	2480	1240
20	1150	1140	1050	1050	1100	2500	1500	4810	11700	1740	2000	1230
21	1150	1140	1050	1050	1100	2770	1530	5270	11800	1730	1870	1210
22	1150	1140	1050	1050	1100	2890	1590	5720	11700	1650	1670	1310
23	1160	1140	1050	1050	1100	2750	1650	6080	11600	1630	1570	1290
24	1170	1130	1050	1050	1100	2580	1700	6510	11600	1560	1590	1450
25	1180	1130	1050	1050	1050	2320	1770	6600	11200	1540	1590	1400
26	1200	1120	1050	1050	1050	1930	1810	6690	10100	1510	1660	1330
27	1160	1130	1050	1050	1050	1630	1800	6800	9380	1500	1680	1290
28	1160	1160	1000	1050	1050	1600	1820	7170	9250	1510	1490	1260
29	1160	1110	1000	1050	---	1660	1930	7630	8490	1480	1430	1240
30	1160	1110	1000	1050	---	1530	2010	7760	8110	1460	1420	1220
31	1160	---	1000	1050	---	1450	---	7550	---	1460	1420	---
TOTAL	33648	33650	32410	32192	30300	56990	44450	136010	293500	93060	64260	36470
MEAN	1085	1122	1045	1038	1082	1838	1482	4387	9783	3002	2073	1216
MAX	1200	1180	1130	1050	1100	3000	2010	7760	11800	7260	2850	1450
MIN	901	1060	900	992	1050	1030	1290	2060	7620	1460	1420	1050
AC-FT	66740	66740	64290	63850	60100	113000	88170	269800	582200	184600	127500	72340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1997, BY WATER YEAR (WY)

	MEAN	956	833	708	727	805	1031	1665	2624	4935	3272	1590	1144
MAX	3109	1844	1419	1442	1980	1852	3416	5665	11700	9415	3577	7746	
(WY)	1983	1984	1972	1996	1974	1974	1962	1952	1986	1986	1982	1965	
MIN	279	281	272	266	267	350	516	434	414	368	372	251	
(WY)	1989	1989	1989	1989	1989	1989	1968	1992	1977	1977	1977	1988	

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1952 - 1997

ANNUAL TOTAL	732848	886940	
ANNUAL MEAN	2002	2430	1693
HIGHEST ANNUAL MEAN			3089
LOWEST ANNUAL MEAN			689
HIGHEST DAILY MEAN	7660	Jun 22	11800
LOWEST DAILY MEAN	900	Dec 4	900
ANNUAL SEVEN-DAY MINIMUM	911	Oct 8	911
INSTANTANEOUS PEAK FLOW			12200 ^b
INSTANTANEOUS PEAK STAGE			7.21 ^c
ANNUAL RUNOFF (AC-FT)	1454000	1759000	1226000
10 PERCENT EXCEEDS	4250	6800	3780
50 PERCENT EXCEEDS	1350	1260	1070
90 PERCENT EXCEEDS	1060	1050	450

a Caused by emergency release from Fontenelle Reservoir.

b Gage height 7.04 ft.

c Backwater from ice.

GREEN RIVER BASIN

51

09217900 BLACKS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 40°57'33", long 110°34'46", in SW¹/₄ SW¹/₄ SW¹/₄ sec.27, T.3 N., R.12 E., Summit County, UT, Hydrologic Unit 14040107, on left bank 1 mi downstream from East Fork, 2.7 mi south of Utah-Wyoming State line, and 18 mi south of Robertson.

DRAINAGE AREA.--130 mi².

PERIOD OF RECORD.--October 1937 to July 1939 (published as "at Blacks Fork Ranger Station"), July 1966 to September 1986, October 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8,811.3 ft above sea level (Bureau of Reclamation benchmark). Datums published from October 1968 to September 1978 are incorrect. October 1937 to July 1939, at site 970 ft downstream at different datum, July 1966 to September 1986 and October 1992 to September 1993 at site 0.2 mi downstream at datum 6.5 ft lower.

REMARKS.--Estimated daily discharges: Oct. 22-24, 27, 28, Nov. 2-4, 6, 7, 9-14, 21, 24, Nov. 26 to Dec. 28, Jan. 3-25, 28, Feb. 2-11, Feb. 19 to Mar. 14, Mar. 16-23, 25-29, Mar. 31 to Apr. 3, and Apr. 7, 11-13. Records good except those for estimated daily discharges, which are poor. U.S. Geological Survey data collection platform with satellite telemetry at station.

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 18	0015	1,060	4.07	June 19	2400	1,220	4.15
June 9	0630	*1,610	*4.53				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	45	46	46	39	36	31	76	1220	299	150	68
2	45	54	44	68	39	38	33	72	1240	276	129	68
3	47	56	41	70	39	37	35	76	1090	259	125	73
4	49	49	44	72	38	36	36	102	1230	250	141	70
5	45	42	50	66	37	37	31	144	1250	243	172	61
6	43	60	50	58	33	38	40	187	1100	232	157	63
7	42	78	51	60	33	38	45	217	1050	230	139	57
8	41	68	48	60	33	37	40	238	1190	228	128	54
9	42	62	56	62	34	35	29	284	1460	226	127	56
10	41	60	60	62	37	35	31	331	1320	216	129	68
11	40	56	58	60	39	36	44	373	1060	209	134	75
12	39	50	50	54	38	33	48	422	855	212	130	78
13	39	50	50	52	37	32	49	474	700	192	131	60
14	46	50	49	54	34	30	40	537	629	178	114	67
15	42	90	43	59	32	27	28	637	520	173	104	76
16	42	127	44	56	32	26	30	740	537	170	99	99
17	39	139	42	60	31	29	36	811	615	170	99	66
18	49	117	41	66	30	31	43	954	779	176	98	86
19	43	44	42	62	35	35	50	885	1010	181	91	190
20	46	44	43	58	35	36	63	818	975	169	87	144
21	45	44	44	56	34	36	67	753	854	160	105	134
22	46	41	43	56	35	37	62	738	745	157	93	134
23	45	41	42	52	34	38	55	728	606	167	94	132
24	44	42	41	50	32	33	53	742	494	176	88	114
25	43	42	43	48	30	40	51	543	422	152	76	98
26	43	44	45	47	33	41	57	416	392	149	72	158
27	47	47	44	44	34	39	76	367	378	157	75	124
28	47	49	44	41	34	44	100	339	364	186	69	108
29	44	48	45	44	---	44	101	481	346	169	70	103
30	43	44	40	42	---	47	83	556	323	146	64	97
31	43	---	39	41	---	35	---	838	---	146	62	---
TOTAL	1357	1783	1422	1726	971	1116	1487	14879	24754	6054	3352	2781
MEAN	43.8	59.4	45.9	55.7	34.7	36.0	49.6	480	825	195	108	92.7
MAX		49	139	60	72	39	47	101	954	1460	299	172 190
MIN		39	41	39	41	30	26	28	72	323	146	62 54
AC-FT	2690	3540	2820	3420	1930	2210	2950	29510	49100	12010	6650	5520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1997, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
MEAN	53.8	41.3	33.7	27.4	24.1	25.6	50.7	400	789	337	112	69.3																					
MAX	136	62.0	50.0	55.7	36.9	38.6	112	789	1273	1003	232	157																					
(WY)	1983	1974	1974	1997	1974	1969	1985	1984	1983	1975	1983	1982																					
MIN	23.9	22.1	11.1	6.73	9.32	9.78	19.4	134	298	64.5	46.3	37.3																					
(WY)	1993	1994	1977	1977	1977	1994	1975	1975	1994	1994	1994	1976																					

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1966 - 1997

ANNUAL TOTAL	59165	61682	
ANNUAL MEAN	162	169	
HIGHEST ANNUAL MEAN			164
LOWEST ANNUAL MEAN			228
HIGHEST DAILY MEAN	1370	1460	1880
LOWEST DAILY MEAN	15	26	3.2
ANNUAL SEVEN-DAY MINIMUM	19	30	3.9
INSTANTANEOUS PEAK FLOW		1610	2480 ^a
INSTANTANEOUS PEAK STAGE		4.53	5.17
ANNUAL RUNOFF (AC-FT)	117400	122300	118900
10 PERCENT EXCEEDS	47	527	504
50 PERCENT EXCEEDS	49	58	46
90 PERCENT EXCEEDS	24	35	22

^a Gage height, 4.91 ft, site and datum then in use.

GREEN RIVER BASIN

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 (no winter records since 1992). 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 sea level (Bureau of Reclamation bench mark). Prior to Oct. 1, 1971, at several sites about 2.0 mi downstream at various datums.

REMARKS.--Estimated daily discharges: May 1-5. Records fair except those for estimated daily discharges, which are poor. Flow completely regulated by Meeks Cabin Reservoir, capacity, 32,470 acre-ft, since June 1971. Results of discharge measurements, in cubic feet per second, made during period when station was not in operation, are given below:

Oct. 2 . . . 60.6
Apr. 28 . . . 16.5

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	18	703	419	244	207
2	---	---	---	---	---	---	---	19	698	438	244	212
3	---	---	---	---	---	---	---	20	704	438	244	217
4	---	---	---	---	---	---	---	21	708	432	244	217
5	---	---	---	---	---	---	---	22	708	428	218	217
6	---	---	---	---	---	---	---	22	711	426	207	217
7	---	---	---	---	---	---	---	23	713	426	207	212
8	---	---	---	---	---	---	---	24	723	417	207	210
9	---	---	---	---	---	---	---	24	1040	408	207	238
10	---	---	---	---	---	---	---	24	1350	404	207	251
11	---	---	---	---	---	---	---	26	1300	402	205	251
12	---	---	---	---	---	---	---	31	1090	401	192	251
13	---	---	---	---	---	---	---	52	936	393	186	249
14	---	---	---	---	---	---	---	150	821	395	182	244
15	---	---	---	---	---	---	---	427	747	381	182	244
16	---	---	---	---	---	---	---	589	716	361	182	223
17	---	---	---	---	---	---	---	633	656	359	182	207
18	---	---	---	---	---	---	---	662	635	349	188	207
19	---	---	---	---	---	---	---	669	729	347	193	207
20	---	---	---	---	---	---	---	670	890	345	197	207
21	---	---	---	---	---	---	---	693	913	342	197	207
22	---	---	---	---	---	---	---	714	881	303	197	207
23	---	---	---	---	---	---	---	741	788	255	197	152
24	---	---	---	---	---	---	---	771	698	253	197	106
25	---	---	---	---	---	---	---	775	634	254	197	103
26	---	---	---	---	---	---	---	775	599	255	202	102
27	---	---	---	---	---	---	---	761	540	255	207	102
28	---	---	---	---	---	---	---	716	482	251	207	102
29	---	---	---	---	---	---	---	705	404	246	207	102
30	---	---	---	---	---	---	---	691	409	244	207	77
31	---	---	---	---	---	---	---	699	---	244	207	---
TOTAL	---	---	---	---	---	---	---	12167	22926	10871	6340	5748
MEAN	---	---	---	---	---	---	---	392	764	351	205	192
MAX	---	---	---	---	---	---	---	775	1350	438	244	251
MIN	---	---	---	---	---	---	---	18	404	244	182	77
AC-FT	---	---	---	---	---	---	---	24130	45470	21560	12580	11400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1992, BY WATER YEAR (WY)

	MEAN	58.9	39.5	29.1	26.4	25.3	28.4	58.3	406	703	339	127	85.2
MAX	199	137	52.7	47.8	57.2	71.7	297	743	1484	1081	317	196	
(WY)	1985	1983	1984	1962	1971	1960	1946	1969	1983	1975	1983	1983	
MIN	28.9	11.6	8.47	7.92	6.10	6.54	7.37	91.6	237	65.9	34.1	31.5	
(WY)	1978	1971	1982	1978	1977	1977	1977	1977	1954	1940	1940	1946	

SUMMARY STATISTICS

	FOR 1997 WATER YEAR*	WATER YEARS 1940 - 1992
ANNUAL MEAN	--	161 ^a
HIGHEST ANNUAL MEAN	--	281
LOWEST ANNUAL MEAN	--	82.9
HIGHEST DAILY MEAN	1350 Jun 10	2180 Jun 7 1957
LOWEST DAILY MEAN	18 May 1	1.0 Sep 15, 16, 1983
ANNUAL SEVEN-DAY MINIMUM	--	5.7 Nov 7 1970
INSTANTANEOUS PEAK FLOW	1370 Jun 10	2530 ^b Jun 7 1957#
INSTANTANEOUS PEAK STAGE	4.62 Jun 10	6.76 ^c Jun 12 1965#
ANNUAL RUNOFF (AC-FT)	--	116600
10 PERCENT EXCEEDS	--	507
50 PERCENT EXCEEDS	--	44
90 PERCENT EXCEEDS	--	14

* During period of operation.

For period of record through 1997.

a Unadjusted.

b From rating curve extended above 1,500 ft³/s.

c From floodmarks, site and datum then in use.

GREEN RIVER BASIN

53

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 sea level, from topographic map. Prior to July 12, 1957, at datum 3.96 ft higher.

REMARKS.--Estimated daily discharges: May 2, 4-7. Records fair except those for estimated daily discharges, which are 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. Results of discharge measurements, in cubic feet per second, made during the period when the station was not in operation are given below:

Oct. 1 . . . 34.1
Apr. 28 . . . 10.4

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	14	97	108	77	62
2	---	---	---	---	---	---	---	13	99	125	76	62
3	---	---	---	---	---	---	---	13	105	125	76	61
4	---	---	---	---	---	---	---	15	119	125	77	62
5	---	---	---	---	---	---	---	15	117	124	68	61
6	---	---	---	---	---	---	---	15	119	123	64	61
7	---	---	---	---	---	---	---	16	123	123	63	61
8	---	---	---	---	---	---	---	16	128	141	63	61
9	---	---	---	---	---	---	---	16	134	149	62	64
10	---	---	---	---	---	---	---	22	129	149	63	67
11	---	---	---	---	---	---	---	23	155	148	63	67
12	---	---	---	---	---	---	---	24	269	146	56	66
13	---	---	---	---	---	---	---	26	262	144	50	66
14	---	---	---	---	---	---	---	59	232	144	50	66
15	---	---	---	---	---	---	---	60	198	131	49	66
16	---	---	---	---	---	---	---	63	173	124	49	60
17	---	---	---	---	---	---	---	71	167	123	50	55
18	---	---	---	---	---	---	---	82	186	123	50	56
19	---	---	---	---	---	---	---	83	245	123	60	57
20	---	---	---	---	---	---	---	83	277	123	71	56
21	---	---	---	---	---	---	---	84	253	121	72	56
22	---	---	---	---	---	---	---	85	224	96	70	56
23	---	---	---	---	---	---	---	92	194	87	70	50
24	---	---	---	---	---	---	---	99	160	87	70	44
25	---	---	---	---	---	---	---	98	139	87	70	44
26	---	---	---	---	---	---	---	97	131	87	67	44
27	---	---	---	---	---	---	---	97	129	87	62	44
28	---	---	---	---	---	---	---	97	104	87	61	44
29	---	---	---	---	---	---	---	98	83	80	62	44
30	---	---	---	---	---	---	---	98	83	77	62	44
31	---	---	---	---	---	---	---	97	---	77	62	---
TOTAL	---	---	---	---	---	---	---	1771	4834	3594	1965	1707
MEAN	---	---	---	---	---	---	---	57.1	161	116	63.4	56.9
MAX	---	---	---	---	---	---	---	99	277	149	77	67
MIN	---	---	---	---	---	---	---	13	83	77	49	44
AC-FT	---	---	---	---	---	---	---	3510	9590	7130	3900	3390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1971, BY WATER YEAR (WY)

	MEAN	15.9	10.9	8.10	7.15	7.19	8.00	20.5	126	216	88.9	33.7	19.6
MAX		34.8	19.0	16.9	16.4	13.4	15.0	90.0	201	430	269	120	59.8
(WY)	1962	1952	1966	1966	1966	1943	1946	1952	1965	1965	1965	1965	1965
MIN		5.21	5.50	2.11	1.34	1.55	2.14	5.01	31.6	59.3	15.9	6.64	6.68
(WY)	1957	1957	1963	1963	1963	1963	1970	1953	1954	1940	1940	1940	1956

SUMMARY STATISTICS

FOR 1997 WATER YEAR*

WATER YEARS 1939 - 1971

ANNUAL MEAN	---	---	47.1
HIGHEST ANNUAL MEAN	---	---	88.9
LOWEST ANNUAL MEAN	---	---	25.4
HIGHEST DAILY MEAN	277	Jun 20	1030
LOWEST DAILY MEAN	13	May 2, 3	1.0
ANNUAL SEVEN-DAY MINIMUM	---	---	1.0
INSTANTANEOUS PEAK FLOW	297	Jun 12	1450
INSTANTANEOUS PEAK STAGE	5.13	Jun 12	6.75
ANNUAL RUNOFF (AC-FT)	---	---	34160
10 PERCENT EXCEEDS	---	---	140
50 PERCENT EXCEEDS	---	---	13
90 PERCENT EXCEEDS	---	---	5.6

* During period of operation.

For period of record through 1997.

GREEN RIVER BASIN

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 above sea level. Prior to Sept. 2, 1959, water-stage recorder at site 2.2 mi upstream at different datum. Sept. 3, 1959, to Sept. 30, 1985, at datum 5.0 ft lower.

REMARKS.--Records good. Flow completely regulated by Flaming Gorge Reservoir 0.5 mi upstream, beginning Nov. 1, 1962.

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, 14.51 ft May 12, June 6, 1986, datum then in use; minimum, 2.3 ft³/s Mar. 20, 22, 27, 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,560 ft³/s June 16, gage height, 14.76 ft; minimum daily discharge, 1380 ft³/s Aug. 15, 16, 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1720	2010	1930	1930	2830	2830	4600	4630	4540	4640	1610	1910
2	1700	2000	1920	1940	2830	2830	4600	4640	4540	4420	1620	1910
3	1710	2010	1960	1930	2810	2830	4600	4640	4540	4420	1620	1900
4	1710	2370	1940	1940	2820	2830	4600	4630	4540	4420	1620	1900
5	1720	2310	1960	1940	2750	2830	4600	4640	4540	4420	1620	1990
6	1710	2310	1940	1940	2810	2830	4600	4640	4540	4410	1410	1990
7	1710	2250	1940	1940	2810	2830	4390	4640	4550	4400	1400	1990
8	1710	2030	1930	1940	2840	2830	4620	4650	4550	4400	1390	1990
9	1710	2000	1940	1940	2810	2830	4620	4650	4550	4400	1440	2060
10	1710	2000	1940	1930	2780	2830	4620	4650	4550	4400	1390	2070
11	1710	2260	2000	1930	2820	2840	4620	4650	4550	4080	1410	2060
12	1730	2240	2000	1940	2820	2850	4630	4650	4540	3700	1440	2060
13	1720	2230	2020	1930	2820	2840	4630	4650	4530	3300	1390	2320
14	1720	2230	1970	1920	2820	2850	4630	4650	4520	2950	1420	2320
15	1720	2010	1980	1920	2820	2850	4640	4650	4490	2550	1380	2320
16	1710	1990	1980	1920	2820	2840	4650	4650	6540	2210	1380	2320
17	1710	1990	1980	1930	2820	2840	4280	4650	8420	1900	1390	2320
18	1700	1990	2230	1920	2820	2850	4230	4650	8370	1630	1380	1970
19	1700	1990	2240	1920	2820	2840	2480	4650	8290	1620	1410	1930
20	1720	1990	1990	1920	2830	2840	2480	4660	8140	1620	1430	2060
21	1720	1950	1990	1930	2830	2840	2330	4650	6910	1620	1920	2060
22	1720	1940	1990	1930	2830	3100	1960	4610	3910	1620	1900	2070
23	1710	1940	1990	1930	2830	3390	4270	4600	3960	1620	1900	2070
24	1700	1940	1990	1930	2810	3700	4640	4600	3950	1420	1900	2070
25	1690	1940	1990	2190	2810	4040	4600	4600	3930	1420	1900	2070
26	1720	1930	1990	1920	2820	4460	4640	4590	3950	1420	1900	2070
27	1690	1930	1990	1870	2820	4650	4640	4590	4280	1410	1900	2070
28	1700	1930	1810	1860	2820	4610	4640	5690	4770	1410	1920	2070
29	1680	1930	1930	1850	---	4590	4640	6680	4990	1610	1910	1990
30	1810	1930	1930	2180	---	4600	4640	6140	5110	1620	1910	1940
31	1930	---	1930	2490	---	4600	---	4550	---	1610	1910	---
TOTAL	53320	61570	61320	60700	78870	101320	128120	148220	153590	86670	50120	61870
MEAN	1720	2052	1978	1958	2817	3268	4271	4781	5120	2796	1617	2062
MAX	1930	2370	2240	2490	2840	4650	4650	6680	8420	4640	1920	2320
MIN	1680	1930	1810	1850	2750	2830	1960	4550	3910	1410	1380	1900
AC-FT	105800	122100	121600	120400	156400	201000	254100	294000	304600	171900	99410	122700
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1997, BY WATER YEAR (WY)												
MEAN	1881	2042	2254	2191	2167	1786	1930	2424	2453	2382	2046	1906
MAX	3911	3655	3626	4145	4090	3818	4271	7146	7961	10130	5056	3729
(WY)	1983	1983	1973	1985	1984	1977	1997	1986	1983	1983	1983	1983
MIN	128	312	743	903	773	599	587	984	916	474	497	734
(WY)	1964	1964	1964	1971	1971	1964	1964	1990	1992	1965	1965	1965
SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1964 - 1997												
ANNUAL TOTAL	912570			1045690			2122					
ANNUAL MEAN	2493			2865			4270			1983		
HIGHEST ANNUAL MEAN							1044			1989		
LOWEST ANNUAL MEAN							12300			Jul 16 1983		
HIGHEST DAILY MEAN	4770			May 22			8420			Jun 17		
LOWEST DAILY MEAN	1330			Jul 27			1380			Aug 15		
ANNUAL SEVEN-DAY MINIMUM	1350			Jul 22			1390			Aug 13		
ANNUAL RUNOFF (AC-FT)	1810000						2074000			1537000		
10 PERCENT EXCEEDS	4660						4640			3780		
50 PERCENT EXCEEDS	2280						2180			1820		
90 PERCENT EXCEEDS	1510						1690			891		

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

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

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

SEDIMENT DATA: October 1956 to September 1959.

INSTRUMENTATION.--Water-quality monitor since December 1986.

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. Temperature extremes for the 1994 water year 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. Water-quality monitor located in separate shelter 0.6 mi downstream from Flaming Gorge Dam.

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 recorded, 523 microsiemens Oct. 25, 1994.

WATER TEMPERATURES: Maximum recorded, 17.2°C July 9, 1989; minimum recorded 1.6°C Mar. 1, 2, 1987.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 723 microsiemens Dec. 3, 9, 10, 12, 13; minimum recorded, 584 microsiemens June 12.

WATER TEMPERATURES: Maximum recorded, 15.1 °C Sept. 11, 12; minimum recorded, 3.0°C March 4.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)
OCT										
15...	1130	1710	690	8.4	20.0	12.0	8.2	94	618	230
DEC										
04...	1200	2040	740	8.2	-1.0	7.0	9.2	94	619	240
JAN										
29...	0930	2720	720	8.3	0.0	4.0	9.6	88	636	250
MAR										
06...	1200	3120	680	8.4	8.0	4.0	10.2	96	620	230
APR										
17...	0930	4500	680	8.4	5.5	4.5	--	--	--	230
MAY										
21...	0830	4720	640	8.2	18.5	8.0	11.2	104	698	230
JUN										
26...	1115	4010	640	8.2	18.0	13.0	9.5	110	624	230
AUG										
06...	1030	1510	650	8.3	20.0	12.0	--	--	--	240

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT									
15...	57	22	53	33	2	2.6	180	16	0.29
DEC									
04...	58	22	52	32	1	2.4	180	16	0.30
JAN									
29...	63	23	53	31	1	2.4	180	15	0.30
MAR									
06...	56	21	48	31	1	2.3	170	14	0.30
APR									
17...	56	21	45	30	1	2.3	170	14	0.25
MAY									
21...	57	21	47	31	1	2.2	160	13	0.25
JUN									
26...	57	21	47	31	1	2.2	160	14	0.26
AUG									
06...	61	20	45	29	1	2.2	150	14	0.25

GREEN RIVER BASIN

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
OCT 15...	2.4	442	429	0.60	2040	<0.005	0.24	0.24	0.24
DEC 04...	2.6	444	426	0.60	2450	0.023	0.20	0.20	0.22
JAN 29...	3.7	446	434	0.61	3280	0.057	0.20	0.20	0.26
MAR 06...	3.8	432	409	0.59	3640	0.039	0.20	0.20	0.24
APR 17...	3.4	421	403	0.57	5120	0.010	0.32	0.32	0.33
MAY 21...	3.9	402	388	0.55	5120	0.024	--	<0.20	--
JUN 26...	5.4	420	397	0.57	4550	0.099	0.22	0.22	0.32
AUG 06...	4.3	410	389	0.56	1670	0.045	--	<0.20	--

DATE	TIME	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT 15...	1130	<1
DEC 04...	1200	<1
JAN 29...	0930	<1
MAR 06...	1200	<1
APR 17...	0930	<1
MAY 21...	0830	<1
JUN 26...	1115	<1
AUG 06...	1030	<1

GREEN RIVER BASIN

57

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	698	696	697	689	688	689	721	717	719	722	720	721
2	699	697	698	691	689	690	719	719	719	721	721	721
3	698	695	697	692	690	691	723	719	721	721	719	720
4	698	695	696	694	692	693	722	721	721	720	719	720
5	697	694	696	694	693	693	721	721	721	720	720	720
6	699	696	697	693	693	693	721	720	721	720	719	720
7	697	696	697	695	692	694	722	721	721	720	720	720
8	697	692	696	695	691	693	722	721	722	721	719	720
9	697	692	694	699	693	697	723	722	722	721	719	720
10	693	691	692	701	699	700	723	721	723	720	719	720
11	694	691	693	702	700	701	721	720	721	720	719	720
12	694	691	693	701	699	700	723	721	722	720	720	720
13	695	690	692	704	700	701	723	720	722	720	720	720
14	694	690	692	705	701	703	720	719	719	720	720	720
15	694	691	693	708	704	706	721	719	719	720	719	719
16	693	685	690	708	704	706	721	719	720	719	718	719
17	691	685	687	708	705	706	721	719	720	719	718	718
18	691	689	690	710	705	708	720	719	720	719	719	719
19	691	686	688	711	709	710	720	720	720	719	719	719
20	688	682	684	711	708	709	722	720	720	719	718	719
21	686	682	684	712	710	711	722	721	722	720	719	719
22	690	686	688	711	710	711	721	720	721	720	718	719
23	690	689	690	711	710	711	721	720	720	720	718	719
24	690	687	688	713	710	712	720	720	720	719	718	719
25	691	685	688	714	712	713	720	719	720	718	717	718
26	690	684	685	716	713	714	721	719	720	718	715	717
27	690	686	688	717	713	715	720	719	719	715	711	713
28	688	685	686	719	715	717	720	719	719	713	711	712
29	685	681	683	718	716	717	719	719	719	713	711	711
30	687	684	685	719	716	718	720	719	720	712	711	711
31	688	687	687	---	---	---	721	720	721	712	710	712
MONTH	699	681	691	719	688	704	723	717	720	722	710	718
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	711	710	710	699	693	695	675	673	674	676	660	664
2	710	707	709	700	696	699	676	675	675	676	665	669
3	710	707	709	696	692	694	675	673	674	679	667	673
4	714	709	712	694	689	693	674	670	672	677	669	673
5	713	709	713	698	691	694	673	669	671	676	667	672
6	709	704	707	696	694	695	673	671	672	675	665	671
7	710	706	709	694	692	694	673	672	672	665	651	659
8	709	707	708	694	685	692	673	672	673	667	653	661
9	709	705	707	692	684	689	675	672	673	673	664	668
10	709	706	708	695	691	692	676	674	675	670	653	660
11	708	705	707	692	689	691	675	674	675	668	644	660
12	707	703	706	691	689	690	675	673	674	668	658	663
13	705	702	704	690	681	686	674	672	673	665	649	660
14	706	702	704	691	683	688	674	672	673	665	650	661
15	702	699	700	689	686	688	672	671	672	664	659	661
16	706	700	703	689	686	688	672	671	672	667	652	661
17	705	701	703	687	679	684	674	672	673	667	658	661
18	702	696	699	685	681	684	705	674	678	666	654	659
19	703	696	699	685	683	684	714	705	712	662	660	661
20	701	692	696	689	683	686	714	705	711	662	650	655
21	698	692	696	687	682	685	712	669	691	658	616	632
22	699	696	698	684	682	683	672	659	668	619	614	617
23	698	694	697	685	679	683	681	668	674	617	612	615
24	698	693	695	683	675	678	681	674	679	620	609	613
25	697	693	695	684	680	682	676	670	673	620	614	616
26	696	694*	695	683	679	681	677	673	675	618	612	613
27	698	693	696	683	668	676	679	673	675	614	608	611
28	697	692	694	675	671	674	676	672	675	653	608	631
29	---	---	---	676	672	675	675	661	668	653	652	653
30	---	---	---	678	675	676	676	663	667	653	612	642
31	---	---	---	677	674	676	---	---	---	612	610	611
MONTH	714	692	703	700	668	686	714	659	676	679	608	649

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	611	607	609	625	593	606	627	625	626	630	628	629
2	608	601	605	597	592	595	628	624	627	630	628	630
3	609	601	606	599	592	594	628	624	627	631	629	630
4	607	602	605	600	597	599	628	626	627	631	629	630
5	608	599	603	600	595	597	629	625	627	631	629	631
6	608	596	601	603	599	601	630	626	628	631	629	630
7	600	595	596	605	601	604	630	626	628	629	628	629
8	603	591	597	609	603	605	628	623	626	629	627	628
9	603	596	599	609	606	607	628	624	626	628	627	628
10	601	594	596	608	606	607	629	624	626	629	627	628
11	594	593	594	611	608	609	629	624	625	628	626	627
12	596	584	592	612	610	611	629	622	626	629	626	627
13	598	591	594	614	611	613	626	621	624	629	627	628
14	598	591	594	615	613	613	625	621	623	629	627	628
15	594	589	592	616	614	615	627	621	624	629	628	629
16	661	592	629	622	616	618	626	622	624	631	629	630
17	660	657	659	623	622	622	624	621	623	631	630	631
18	658	652	656	624	621	623	626	622	623	633	630	632
19	657	645	651	627	624	626	625	624	624	633	631	632
20	652	646	650	625	623	624	627	625	626	636	633	634
21	652	646	651	624	623	624	627	623	625	636	629	632
22	654	648	652	624	621	623	626	623	624	629	629	629
23	653	645	650	625	623	624	627	623	625	631	629	630
24	651	645	650	626	624	625	628	626	627	630	628	628
25	652	647	650	625	623	624	629	628	629	631	628	629
26	652	646	649	625	624	625	629	628	629	631	629	630
27	653	639	647	626	623	625	629	628	628	630	626	628
28	644	639	641	626	623	624	630	628	629	629	626	627
29	643	624	634	627	623	625	631	629	630	630	627	628
30	626	621	624	627	625	626	630	629	630	630	626	628
31	---	---	---	628	623	626	630	629	630	---	---	---
MONTH	661	584	623	628	592	615	631	621	626	636	626	629

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	12.4	11.4	11.8	10.5	10.2	10.4	8.1	7.8	7.9	5.7	5.7	5.7
2	11.4	11.1	11.3	10.4	10.2	10.3	7.9	7.7	7.8	5.8	5.7	5.7
3	11.8	11.1	11.2	10.2	10.2	10.2	7.7	7.5	7.6	5.8	5.6	5.7
4	11.8	11.2	11.5	10.2	9.9	10.0	7.6	7.5	7.5	5.6	5.6	5.6
5	11.9	11.0	11.5	10.0	9.8	9.9	7.5	7.4	7.5	5.6	5.4	5.5
6	11.4	11.0	11.2	10.1	9.9	10.0	7.4	7.3	7.4	5.4	5.4	5.4
7	11.6	11.0	11.3	9.9	9.6	9.8	7.3	7.2	7.3	5.4	5.3	5.3
8	12.3	11.1	11.5	10.0	9.8	9.9	7.3	7.2	7.2	5.3	5.2	5.3
9	12.3	11.6	11.9	9.9	9.2	9.5	7.3	7.1	7.2	5.2	5.2	5.2
10	12.3	11.6	11.9	9.5	9.1	9.3	7.2	7.1	7.2	5.2	5.1	5.2
11	12.3	11.7	12.0	9.4	9.0	9.3	7.2	7.1	7.2	5.1	5.0	5.1
12	12.2	11.7	11.9	9.6	9.4	9.5	7.1	7.1	7.1	5.0	4.9	5.0
13	12.2	11.5	11.9	9.6	9.2	9.5	7.2	7.0	7.1	4.9	4.8	4.9
14	12.2	11.6	11.9	9.6	9.1	9.3	7.1	6.9	7.0	4.9	4.8	4.8
15	12.0	11.4	11.7	9.2	8.8	9.0	6.9	6.8	6.9	4.8	4.6	4.7
16	12.5	11.7	12.0	9.1	8.8	9.0	6.8	6.6	6.8	4.7	4.6	4.6
17	12.5	11.5	12.2	8.9	8.7	8.8	6.6	6.4	6.6	4.6	4.5	4.6
18	11.6	11.2	11.5	9.0	8.7	8.8	6.4	6.3	6.3	4.7	4.6	4.6
19	12.1	11.2	11.8	8.8	8.5	8.7	6.3	6.2	6.3	4.7	4.6	4.6
20	12.2	11.6	12.0	8.9	8.6	8.8	6.2	6.1	6.2	4.7	4.6	4.6
21	12.2	11.3	11.9	8.8	8.5	8.7	6.2	6.1	6.2	4.6	4.5	4.5
22	11.3	10.6	11.0	8.8	8.7	8.7	6.1	6.0	6.1	4.5	4.5	4.5
23	10.6	10.4	10.5	8.9	8.7	8.8	6.0	5.9	6.0	4.5	4.4	4.5
24	10.8	10.4	10.6	8.8	8.5	8.6	5.9	5.9	5.9	4.4	4.3	4.3
25	10.9	10.1	10.5	8.7	8.5	8.6	5.9	5.8	5.8	4.3	4.3	4.3
26	10.9	10.0	10.7	8.6	8.4	8.5	5.9	5.8	5.8	4.3	4.0	4.2
27	10.4	10.0	10.2	8.5	8.3	8.4	5.8	5.8	5.8	4.1	3.9	4.0
28	10.5	10.2	10.3	8.4	8.2	8.3	5.8	5.7	5.7	4.0	3.8	3.9
29	11.0	10.5	10.8	8.2	8.1	8.2	5.8	5.7	5.7	4.0	3.9	4.0
30	10.7	10.5	10.6	8.2	8.0	8.1	5.8	5.7	5.7	4.0	3.9	4.0
31	10.5	10.4	10.5	---	---	---	5.8	5.7	5.7	4.0	3.9	4.0
MONTH	12.5	10.0	11.3	10.5	8.0	9.2	8.1	5.7	6.7	5.8	3.8	4.8

GREEN RIVER BASIN

59

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	4.0	3.9	3.9	3.5	3.2	3.3	4.3	4.3	4.3	6.5	5.9	6.3
2	3.9	3.7	3.9	3.7	3.3	3.5	4.3	4.2	4.3	6.4	5.9	6.2
3	3.8	3.7	3.8	3.4	3.2	3.3	4.4	4.2	4.3	6.1	5.9	6.0
4	4.1	3.8	4.0	3.4	3.0	3.2	4.5	4.3	4.4	6.8	5.9	6.3
5	4.1	3.8	4.0	3.5	3.1	3.3	4.3	4.2	4.3	6.6	6.2	6.4
6	3.8	3.4	3.6	3.5	3.3	3.4	4.3	4.2	4.3	7.0	6.2	6.4
7	3.9	3.6	3.8	3.5	3.3	3.4	4.5	4.3	4.4	7.2	6.8	7.0
8	3.8	3.6	3.7	3.4	3.1	3.3	4.4	4.4	4.4	7.1	6.8	6.9
9	3.7	3.5	3.6	3.5	3.1	3.3	4.4	4.4	4.4	6.8	6.7	6.8
10	3.7	3.5	3.6	3.5	3.3	3.4	4.4	4.4	4.4	7.2	6.7	6.9
11	3.7	3.5	3.6	3.5	3.4	3.4	4.5	4.3	4.4	8.1	7.0	7.3
12	3.6	3.3	3.5	3.7	3.4	3.5	4.4	4.3	4.3	7.8	6.9	7.3
13	3.5	3.2	3.4	3.5	3.3	3.4	4.4	4.2	4.3	8.5	7.3	7.7
14	3.6	3.4	3.5	3.6	3.4	3.5	4.5	4.4	4.4	8.9	7.4	8.0
15	3.4	3.3	3.3	3.7	3.5	3.6	4.7	4.4	4.6	8.1	7.9	8.0
16	3.7	3.3	3.6	3.7	3.5	3.6	4.9	4.6	4.7	8.7	7.8	8.1
17	3.7	3.5	3.6	3.7	3.6	3.7	4.9	4.7	4.8	8.7	7.8	8.2
18	3.5	3.3	3.4	3.8	3.6	3.7	5.2	4.9	5.0	9.8	8.2	8.9
19	3.7	3.3	3.5	3.9	3.7	3.8	5.6	5.1	5.3	8.9	8.1	8.4
20	3.5	3.1	3.3	4.0	3.8	3.9	5.8	5.3	5.5	8.4	8.1	8.3
21	3.5	3.1	3.3	4.0	3.8	3.9	6.0	5.5	5.8	8.4	8.0	8.2
22	3.5	3.3	3.4	4.0	3.9	4.0	6.1	5.6	5.8	8.8	8.1	8.5
23	3.5	3.2	3.4	4.1	4.0	4.0	5.8	5.2	5.4	8.7	8.2	8.6
24	3.3	3.1	3.2	4.0	4.0	4.0	5.4	5.2	5.3	8.7	7.9	8.3
25	3.4	3.1	3.3	4.1	4.0	4.1	5.7	5.3	5.5	8.5	8.0	8.3
26	3.4	3.3	3.3	4.2	4.1	4.1	5.8	5.7	5.8	9.0	8.3	8.7
27	3.6	3.3	3.4	4.2	4.1	4.1	5.8	5.5	5.7	9.3	8.5	8.8
28	3.5	3.1	3.3	4.2	4.1	4.1	5.9	5.6	5.7	9.0	7.6	8.3
29	---	---	---	4.2	4.1	4.2	6.5	5.6	6.0	7.7	7.5	7.6
30	---	---	---	4.3	4.1	4.2	6.4	5.9	6.2	9.0	7.6	8.0
31	---	---	---	4.4	4.2	4.3	---	---	---	9.0	8.5	8.8
MONTH	4.1	3.1	3.5	4.4	3.0	3.7	6.5	4.2	4.9	9.8	5.9	7.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	9.3	8.7	9.1	12.4	10.9	11.7	12.5	11.9	12.2	13.4	13.1	13.3
2	9.5	9.2	9.4	12.8	11.5	12.0	12.5	11.9	12.2	13.3	13.0	13.1
3	9.5	8.5	8.9	12.8	11.9	12.3	12.6	11.8	12.3	13.2	12.9	13.1
4	9.3	8.8	9.2	12.4	11.9	12.1	12.3	11.8	12.1	13.1	12.7	13.0
5	9.7	9.1	9.5	13.2	12.4	12.8	12.7	11.7	12.2	13.1	12.7	12.9
6	10.0	9.3	9.7	12.7	12.6	12.7	12.7	11.5	12.2	13.3	12.7	13.1
7	10.2	9.7	9.9	13.0	12.6	12.7	12.7	11.3	12.2	13.9	13.2	13.6
8	10.0	9.5	9.8	12.9	12.6	12.8	13.8	11.8	12.8	15.0	13.6	14.2
9	10.0	9.5	9.8	13.2	12.6	12.9	13.6	12.0	13.0	15.0	14.6	14.8
10	10.2	9.6	10.0	13.0	12.8	12.9	13.2	11.8	12.6	14.9	14.6	14.8
11	10.4	10.2	10.3	13.1	12.5	12.8	13.0	12.0	12.6	15.1	14.7	14.8
12	11.6	10.2	10.6	12.7	12.0	12.4	14.1	11.6	12.9	15.1	14.7	14.9
13	10.6	9.9	10.2	12.3	12.0	12.2	14.5	12.8	13.7	14.8	14.6	14.7
14	10.5	9.9	10.4	12.8	12.3	12.6	14.6	13.3	13.8	14.9	14.5	14.7
15	10.9	10.4	10.7	13.0	12.7	12.9	14.8	13.2	13.9	14.9	14.2	14.6
16	10.9	8.3	9.5	12.9	11.9	12.5	14.9	12.9	14.0	14.5	13.5	13.9
17	8.4	8.3	8.4	12.4	11.9	12.1	14.9	13.4	14.2	13.7	13.5	13.5
18	8.4	8.1	8.2	12.3	11.6	12.0	14.9	13.3	14.3	14.1	13.7	14.1
19	8.5	8.2	8.4	11.8	10.7	11.3	14.5	13.3	13.9	14.3	14.0	14.2
20	8.9	8.5	8.7	11.8	11.3	11.6	13.6	11.9	13.2	14.1	13.4	13.8
21	10.3	8.6	8.9	12.0	11.5	11.8	13.2	11.9	12.9	15.0	13.6	14.3
22	10.5	9.8	10.1	12.4	11.6	12.0	13.4	12.9	13.2	15.0	14.9	15.0
23	10.6	10.1	10.4	12.1	11.6	11.9	13.1	12.4	12.9	14.9	14.6	14.8
24	10.7	10.4	10.6	12.1	11.8	12.0	12.8	12.4	12.6	14.9	14.5	14.7
25	10.7	10.2	10.4	12.2	11.9	12.0	12.9	12.7	12.8	14.6	14.2	14.5
26	10.5	10.3	10.4	12.2	11.8	12.0	13.1	12.9	13.0	14.3	14.1	14.2
27	10.6	10.3	10.4	12.2	11.8	12.1	13.1	12.9	13.0	14.8	14.2	14.4
28	10.3	10.1	10.2	12.4	12.0	12.3	13.5	12.7	13.1	14.8	14.3	14.5
29	10.9	10.1	10.4	12.6	12.0	12.3	13.1	12.6	12.8	14.6	14.2	14.4
30	11.1	10.7	10.9	12.3	11.8	12.1	13.0	12.6	12.8	14.9	14.3	14.6
31	---	---	---	12.6	11.6	12.2	13.4	12.8	13.1	---	---	---
MONTH	11.6	8.1	9.8	13.2	10.7	12.3	14.9	11.3	13.0	15.1	12.7	14.1

GREEN RIVER BASIN

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. Elevation of gage is 4,758 ft above sea level, 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.--Records good except for estimated daily discharges, which are poor. 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.

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, 25,000 ft³/s, June 5, gage height, 11.15 ft; minimum discharge, 1,670 ft³/s, Jan. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2210	2480	2510	2610	2980	3520	7030	16900	22400	10400	2760	2480
2	2090	2610	2400	2630	3440	3510	7020	14200	22000	9650	2700	2430
3	2120	2630	2310	2910	3510	3560	7440	12600	22500	9010	2790	2440
4	2150	2640	2230	2840	3480	3550	7340	11700	23800	8490	2780	2400
5	2150	2940	2280	2800	3460	3550	7280	10800	24900	8200	2700	2350
6	2150	3020	2370	2600	3430	3610	7680	10700	24400	7940	2700	2360
7	2130	3020	2340	2430	3410	3610	7870	12200	23300	7700	2760	2400
8	2130	3040	2390	2570	3430	3610	6940	14600	22300	7500	2470	2410
9	2120	2800	2480	2580	3440	3770	6940	17000	20600	7340	2680	2420
10	2110	2620	2600	2590	3420	4100	6920	17700	20300	7140	2690	2430
11	2090	2580	2790	2610	3390	4370	6950	17500	20600	6950	2710	2440
12	2080	2810	2890	2470	3390	5540	7150	17800	19600	6500	2700	2480
13	2070	2920	2780	1920	3370	6910	6760	18400	19200	6020	2760	2490
14	2060	2930	2870	2220	3360	7600	6460	18600	18000	5530	3300	2510
15	2030	2910	2750	e2400	3390	6380	6390	18300	16700	5070	3220	2610
16	2030	2790	2550	e2500	3370	5470	6340	18600	15700	4640	2940	2690
17	2060	2810	2340	e2400	3380	5200	6530	19000	17100	4090	2880	2760
18	2050	2770	2110	e2400	3550	5070	6730	19700	18200	3660	2600	2790
19	2070	2710	2340	e2500	3670	5860	7490	20800	18000	3340	2440	2820
20	2130	2640	2580	e2550	3690	6010	7600	21400	18000	3150	2320	3000
21	2100	2660	2510	e2550	3630	6220	8850	21400	19000	3040	2290	3980
22	2100	2960	2370	e2500	3780	6580	9920	20700	18400	3060	2570	8310
23	2140	3090	2450	e2480	3730	7040	10400	20200	15100	2960	2720	8880
24	2190	3010	2420	e2500	3600	7050	10200	20100	14500	2860	2650	7130
25	2210	3080	2480	e2600	3580	7270	10300	19600	13400	2780	2600	6000
26	2200	3280	2570	e2700	3550	7750	10400	19700	12400	2580	2580	5150
27	2200	3120	2670	e2720	3560	7240	10000	19700	11400	2600	2580	4640
28	2170	2910	2650	e2550	3590	7000	10200	18000	10800	2500	2520	4250
29	2280	2800	2610	e2470	---	7060	10900	16800	10800	2480	2490	4450
30	2200	2730	2550	2510	---	7100	13600	16900	10700	2440	2500	4450
31	2320	---	2600	2750	---	7130	---	19900	---	2630	2510	---
TOTAL	66140	85310	77790	78860	97580	172240	245630	541500	544100	162250	82910	107950
MEAN	2134	2844	2509	2544	3485	5556	8188	17470	18140	5234	2675	3598
MAX	2320	3280	2890	2910	3780	7750	13600	21400	24900	10400	3300	8880
MIN	2030	2480	2110	1920	2980	3510	6340	10700	10700	2440	2290	2350
AC-FT	131200	169200	154300	156400	193500	341600	487200	1074000	1079000	321800	164500	214100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1997, BY WATER YEAR (WY)

	MEAN	2117	2192	2168	2123	2356	3023	5639	11400	11690	4820	2489	1942
MAX	5022	4833	4414	4844	4839	5765	15360	24110	26440	16110	6463	4159	
(WY)	1983	1987	1987	1985	1986	1986	1962	1984	1957	1983	1983	1983	1983
MIN	346	593	528	598	721	949	2029	4220	3129	498	453	505	
(WY)	1964	1963	1963	1955	1955	1963	1963	1990	1992	1963	1963	1963	1963

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1947 - 1997

ANNUAL TOTAL	1835580	2262260	
ANNUAL MEAN	5015	6198	4333
HIGHEST ANNUAL MEAN			7784
LOWEST ANNUAL MEAN			1458
HIGHEST DAILY MEAN	22000	24900	38500
LOWEST DAILY MEAN	1870	1920	260
ANNUAL SEVEN-DAY MINIMUM	1910	2050	276
ANNUAL RUNOFF (AC-FT)	3641000	4487000	3139000
10 PERCENT EXCEEDS	13200	17900	10600
50 PERCENT EXCEEDS	2780	3120	2700
90 PERCENT EXCEEDS	2010	2300	1080

e Estimated

GREEN RIVER BASIN
09261000 GREEN RIVER NEAR JENSEN, UT--Continued

61

WATER-QUALITY RECORDS

LOCATION.--Daily specific conductance and temperature data collected at bridge on Utah Highway 149, 0.1 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 September 1996.

WATER TEMPERATURES: March 1949 to September 1959, October 1961 to September 1996.

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
OCT 15...	1650	1920	680	8.5	22.0	13.0
DEC 05...	1030	2040	770	8.3	2.0	2.0
JAN 29...	1745	2560	730	8.3	4.0	3.0
MAR 06...	1545	3570	710	8.5	6.0	4.5
APR 16...	1500	5440	700	8.4	21.0	12.0
AUG 06...	0700	2910	550	8.4	21.5	19.0

DATE	TIME	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT 15...	1650	<1
DEC 05...	1030	<1
JAN 29...	1745	<1
MAR 06...	1545	<1
APR 16...	1500	1
AUG 06...	0700	<1

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.--72.2 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 5,625 ft above sea level, 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 fair. Water from Oaks Park Reservoir (capacity 6,250 acre-ft), near headwaters, is diverted through Oaks Park Canal to Ashley Creek basin.

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, 7.6 ft³/s Feb. 10, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 242 ft³/s May 12, 1997, gage height, 1.84 ft; minimum daily discharge, 12 ft³/s several days in Jan.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	15	14	18	12	15	24	65	192	35	35	27
2	17	15	14	18	12	15	24	57	197	37	33	28
3	17	15	14	20	13	15	23	52	203	40	33	32
4	17	15	14	14	13	14	25	54	196	38	34	30
5	16	15	15	14	13	17	24	87	187	36	39	30
6	17	15	15	15	13	14	23	140	171	36	38	30
7	16	14	14	16	e12	15	22	175	149	37	37	33
8	16	14	14	14	e12	15	23	200	135	36	33	31
9	16	14	14	14	e12	16	23	212	134	35	31	29
10	18	14	15	15	e13	18	22	225	128	35	31	28
11	16	14	15	14	13	21	22	227	115	34	e32	29
12	16	14	14	e13	14	23	20	231	103	34	e32	30
13	16	13	15	e12	15	19	20	226	95	34	e33	29
14	16	13	14	e12	15	17	20	220	86	34	e34	27
15	16	14	14	e12	14	17	19	225	79	36	e34	25
16	16	14	14	12	13	16	19	229	76	42	33	27
17	15	14	e13	e12	13	15	21	222	72	41	32	27
18	15	14	e13	e13	14	15	25	218	74	43	32	27
19	16	14	15	e13	14	15	29	209	79	42	39	36
20	16	14	15	e13	14	15	35	202	74	41	36	44
21	15	14	15	e14	16	17	41	198	67	44	34	49
22	15	15	16	e14	14	16	44	191	62	42	34	61
23	15	14	15	e13	14	17	44	186	53	41	33	55
24	14	14	15	e12	19	17	43	186	46	40	31	48
25	16	14	15	e12	17	20	41	193	42	40	30	44
26	15	14	16	e13	14	21	41	185	38	39	29	44
27	15	14	16	e13	15	21	46	174	37	39	29	44
28	15	14	16	e12	17	23	69	159	35	39	29	39
29	15	15	16	e12	---	24	80	153	33	39	28	36
30	15	14	16	12	---	23	76	172	35	37	26	35
31	15	---	16	13	---	24	---	184	---	35	26	---
TOTAL	491	426	457	424	390	550	988	5457	2993	1181	1010	1054
MEAN	15.8	14.2	14.7	13.7	13.9	17.7	32.9	176	99.8	38.1	32.6	35.1
MAX	18	15	16	20	19	24	80	231	203	44	39	61
MIN	14	13	13	12	12	14	19	52	33	34	26	25
AC-FT	974	845	906	841	774	1090	1960	10820	5940	2340	2000	2090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1997, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
MEAN	21.5	17.8	15.6	14.6	14.2	15.7	46.5	144	116	47.2	33.6	24.5						
MAX	38.2	29.3	25.4	22.4	21.4	24.5	88.9	209	314	127	51.2	35.1						
(WY)	1987	1987	1984	1984	1987	1986	1985	1985	1983	1983	1983	1997						
MIN	13.5	12.4	10.2	10.1	10.6	10.8	17.7	50.8	26.8	25.9	20.3	15.7						
(WY)	1990	1991	1993	1993	1993	1982	1982	1989	1989	1989	1989	1989						

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1980 - 1997

ANNUAL TOTAL	11913	15421	
ANNUAL MEAN	32.5	42.2	
HIGHEST ANNUAL MEAN			42.7
LOWEST ANNUAL MEAN			64.5
HIGHEST DAILY MEAN	163	231	336
LOWEST DAILY MEAN	12	12	7.6
ANNUAL SEVEN-DAY MINIMUM	12	12	8.8
ANNUAL RUNOFF (AC-FT)	23630	30590	30940
10 PERCENT EXCEEDS	73	120	96
50 PERCENT EXCEEDS	17	21	22
90 PERCENT EXCEEDS	14	14	12

e Estimated

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 above sea level. 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.--Records fair except for estimated daily discharges, which are poor. 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,100 ft³/s June 15, 1995, gage height, 5.64 ft from highwater mark; 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 12	2200	*1050	*4.27	No other peak greater than base discharge			
Minimum daily discharge, 15.0 ft ³ /s Mar. 8-11.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	29	24	20	18	17	23	81	553	126	65	69
2	33	27	24	20	17	16	22	71	561	124	56	110
3	32	27	23	20	17	16	23	65	465	145	52	149
4	30	29	23	20	17	16	24	73	422	144	66	121
5	30	29	23	19	17	16	23	130	391	144	121	94
6	30	26	23	19	17	23	22	196	365	141	86	70
7	29	26	23	19	17	24	22	286	342	137	60	76
8	27	27	22	19	17	15	24	349	347	130	47	60
9	27	26	22	20	17	15	25	407	368	129	43	53
10	31	27	23	19	17	15	23	472	336	125	48	48
11	39	27	23	20	17	15	21	518	295	121	110	71
12	41	26	22	19	17	16	21	594	256	122	110	71
13	39	26	22	18	17	16	22	586	246	106	89	54
14	37	26	21	19	17	16	23	617	231	96	61	48
15	38	25	22	21	17	16	21	804	217	90	48	45
16	37	25	22	21	17	16	21	781	216	87	44	77
17	35	26	22	21	17	16	20	760	195	85	43	54
18	35	27	21	20	17	16	23	824	195	82	43	49
19	34	27	21	20	17	16	26	792	204	86	142	195
20	29	28	21	19	17	17	30	757	184	90	167	203
21	26	28	22	19	17	18	40	728	171	108	92	202
22	26	28	22	19	16	18	43	615	159	106	137	244
23	27	30	22	18	17	19	43	560	149	101	131	208
24	29	28	21	18	17	20	43	738	142	104	74	171
25	30	28	22	18	17	18	44	614	142	99	60	146
26	30	27	21	18	17	19	42	424	133	93	60	187
27	26	23	21	18	17	19	42	370	120	93	64	193
28	27	22	21	17	17	21	58	361	109	88	56	152
29	30	25	21	18	---	21	80	414	126	94	50	138
30	30	25	21	17	---	22	81	443	132	79	61	128
31	29	---	20	17	---	22	---	479	---	68	60	---
TOTAL	977	800	681	590	476	550	975	14909	7772	3343	2346	3486
MEAN	31.5	26.7	22.0	19.0	17.0	17.7	32.5	481	259	108	75.7	116
MAX	41	30	24	21	18	24	81	824	561	145	167	244
MIN	26	22	20	17	16	15	20	65	109	68	43	45
AC-FT	1940	1590	1350	1170	944	1090	1930	29570	15420	6630	4650	6910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1915	53.5	154	1942	6.91	1990
1916	38.4	104	1942	5.57	1990
1917	28.8	64.2	1942	7.74	1989
1918	24.2	45.0	1928	5.12	1977
1919	21.4	40.0	1928	4.60	1978
1920	20.4	43.3	1916	4.54	1978
1921	49.4	162	1962	6.22	1975
1922	341	739	1986	71.7	1977
1923	326	1051	1983	59.1	1934
1924	127	360	1975	39.2	1977
1925	83.4	161	1952	16.0	1989
1926	67.8	230	1927	7.81	1989

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1915 - 1997

ANNUAL TOTAL	27155	36905	98.8
ANNUAL MEAN	74.2	101	178
HIGHEST ANNUAL MEAN			31.5
LOWEST ANNUAL MEAN			1977
HIGHEST DAILY MEAN	553	824	2530
LOWEST DAILY MEAN	12	15	3.5
ANNUAL SEVEN-DAY MINIMUM	13	15	3.8
ANNUAL RUNOFF (AC-FT)	53860	73200	71570
10 PERCENT EXCEEDS	190	268	229
50 PERCENT EXCEEDS	29	30	43
90 PERCENT EXCEEDS	15	17	14

GREEN RIVER BASIN
09267500 MOSBY CANAL NEAR LAPOINT, UT

LOCATION.--Lat 40°36'30", long 109°53'00", in sec. 27, T. 2 S., R. 18 E., 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. Seasonal records only since October 1984.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 9,500 ft above sea level, from topographic map.

REMARKS.--Records fair. No flow is assumed November through 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, 46 ft³/s July 19, 1995; no flow for extended periods each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	---	---	---	---	---	---	---	---	32	17	19
2	9.9	---	---	---	---	---	---	---	---	32	17	19
3	---	---	---	---	---	---	---	---	---	31	17	20
4	---	---	---	---	---	---	---	---	---	31	18	20
5	---	---	---	---	---	---	---	---	---	30	20	19
6	---	---	---	---	---	---	---	---	---	28	13	18
7	---	---	---	---	---	---	---	---	---	25	23	18
8	---	---	---	---	---	---	---	---	---	25	25	19
9	---	---	---	---	---	---	---	---	---	25	23	21
10	---	---	---	---	---	---	---	---	---	23	30	20
11	---	---	---	---	---	---	---	---	---	23	19	19
12	---	---	---	---	---	---	---	---	---	23	17	18
13	---	---	---	---	---	---	---	---	---	22	17	17
14	---	---	---	---	---	---	---	---	---	21	15	17
15	---	---	---	---	---	---	---	---	---	21	14	15
16	---	---	---	---	---	---	---	---	---	21	14	11
17	---	---	---	---	---	---	---	---	---	21	13	8.9
18	---	---	---	---	---	---	---	---	---	20	13	10
19	---	---	---	---	---	---	---	---	---	20	14	10
20	---	---	---	---	---	---	---	---	---	20	14	5.4
21	---	---	---	---	---	---	---	---	---	20	15	5.3
22	---	---	---	---	---	---	---	---	---	20	16	4.3
23	---	---	---	---	---	---	---	---	---	20	15	5.9
24	---	---	---	---	---	---	---	---	---	20	14	6.4
25	---	---	---	---	---	---	---	---	---	20	16	5.1
26	---	---	---	---	---	---	---	---	---	20	19	9.4
27	---	---	---	---	---	---	---	---	33	20	18	6.5
28	---	---	---	---	---	---	---	---	31	19	18	4.9
29	---	---	---	---	---	---	---	---	30	19	19	7.7
30	---	---	---	---	---	---	---	---	31	18	20	11
31	---	---	---	---	---	---	---	---	---	17	19	---
TOTAL	---	---	---	---	---	---	---	---	---	707	542	390.8
MEAN	---	---	---	---	---	---	---	---	---	22.8	17.5	13.0
MAX	---	---	---	---	---	---	---	---	---	32	30	21
MIN	---	---	---	---	---	---	---	---	---	17	13	4.3
AC-FT	---	---	---	---	---	---	---	---	---	1400	1080	775

GREEN RIVER BASIN

65

09271550 ASHLEY CREEK BELOW UNION CANAL DIVERSION NEAR JENSEN, UT

LOCATION.--Lat 40°21'29", long 109°23'13", in NW¹/₄SE¹/₄NE¹/₄ sec. 25, T. 5 S., R. 22 E., Uintah County, Hydrologic Unit 14060002, on right bank about 0.5 mi below Union Canal diversion at County road bridge, 1.7 mi above mouth and 2.5 mi southwest of Jensen.

DRAINAGE AREA.--389 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,740 ft above sea level from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,300 ft³/s June 16, 1995, gage height, 6.34 ft from high water mark, and rating curve extended above 1,800 ft³/s; minimum daily discharge, 0.03 ft³/s Aug. 7, 26, 27, 30, 31, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1820 ft³/s May 20, gage height, 5.68 ft from high water mark, minimum daily discharge, 0.81 ft³/s June 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	31	21	19	e22	e13	21	11	682	.82	3.6	7.6
2	7.9	26	21	18	e23	e12	20	12	754	.86	2.5	18
3	8.2	23	e20	e26	e24	e11	22	13	884	.91	2.5	43
4	8.8	24	e19	e25	e23	e11	23	12	763	2.8	3.4	48
5	10	26	e20	e24	e22	e11	24	10	486	3.7	98	50
6	12	25	e20	e23	e21	e11	23	7.9	398	4.9	35	41
7	8.9	22	e20	e22	e20	e11	20	4.7	297	4.8	17	36
8	8.1	21	e21	e23	e19	e15	19	5.3	343	2.9	9.0	32
9	7.8	22	e20	e24	e18	e20	34	7.0	501	3.1	6.6	24
10	12	21	21	e24	e19	e29	29	40	493	2.6	13	19
11	9.1	20	e20	e23	e21	e35	22	58	492	4.0	32	14
12	9.4	20	e19	21	e20	e47	21	119	384	3.7	37	17
13	11	20	e20	e20	e21	e56	20	223	347	7.6	23	14
14	13	21	21	e20	e22	e50	21	171	331	5.3	18	13
15	15	20	e20	e19	e20	e45	24	406	288	1.5	12	18
16	15	21	e19	e18	e17	e40	23	597	284	.93	7.1	24
17	18	22	e20	e18	e17	e36	20	577	265	1.5	3.5	25
18	21	24	e20	e19	e18	e33	19	963	242	2.1	3.4	26
19	23	25	e21	e20	e19	e32	20	1200	234	4.2	4.5	98
20	29	23	e22	e21	e20	e30	18	1320	197	2.4	6.5	89
21	30	22	e21	e22	e19	e29	18	1200	179	2.7	5.3	103
22	31	32	e20	e22	e17	e28	23	882	156	2.8	4.8	112
23	28	34	e19	e22	e16	e27	20	829	123	2.8	4.8	115
24	24	26	e19	e22	e15	e26	22	963	67	3.4	6.6	68
25	29	25	e20	e21	e15	e26	21	915	26	1.8	6.0	53
26	33	23	e21	e20	e16	e27	13	675	4.1	1.3	4.3	63
27	25	21	e22	e19	e15	e26	11	587	.96	2.9	5.6	152
28	23	20	e23	e18	e14	25	12	580	.90	6.1	5.7	74
29	29	20	e23	e19	---	25	12	531	.81	9.6	3.4	50
30	33	20	e22	e20	---	23	11	669	.89	5.8	4.0	40
31	32	---	21	e21	---	22	---	456	---	3.4	5.0	---
TOTAL	570.4	700	636	653	533	832	606	14043.9	9223.66	103.22	393.1	1486.6
MEAN	18.4	23.3	20.5	21.1	19.0	26.8	20.2	453	307	3.33	12.7	49.6
MAX	33	34	23	26	24	56	34	1320	884	9.6	98	152
MIN	6.2	20	19	18	14	11	11	4.7	.81	.82	2.5	7.6
AC-FT	1130	1390	1260	1300	1060	1650	1200	27860	18300	205	780	2950

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1997, BY WATER YEAR (WY)

	MEAN	23.0	24.4	19.8	17.8	23.9	26.6	12.5	165	296	66.3	13.5	16.1
MAX	33.1	30.3	26.6	22.9	49.1	56.5	35.4	453	1121	354	40.4	49.6	
(WY)	1996	1994	1994	1994	1994	1993	1993	1997	1995	1995	1993	1997	
MIN	13.3	17.1	13.1	12.0	15.2	12.7	2.43	9.97	4.80	.51	.40	1.41	
(WY)	1993	1995	1993	1996	1996	1996	1992	1992	1992	1994	1994	1994	

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1992 - 1997

ANNUAL TOTAL	5906.21	29780.88	
ANNUAL MEAN	16.1	81.6	58.6
HIGHEST ANNUAL MEAN			138
LOWEST ANNUAL MEAN			12.7
HIGHEST DAILY MEAN	231	1320	3560
LOWEST DAILY MEAN	.91	.81	.03
ANNUAL SEVEN-DAY MINIMUM	1.2	.88	.03
ANNUAL RUNOFF (AC-FT)	11710	59070	42480
10 PERCENT EXCEEDS	25	227	53
50 PERCENT EXCEEDS	12	21	18
90 PERCENT EXCEEDS	2.9	4.2	2.4

e Estimated

GREEN RIVER BASIN
09271550 ASHLEY CREEK BELOW UNION CANAL DIVERSION NEAR JENSEN, UT--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--November 1991 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
MAR 20...	0805	52	2120	8.2	6.0	39
APR 16...	1200	20	2220	8.5	12.0	51
MAY 14...	0810	--	400	8.1	9.5	5
JUN 10...	0720	500	330	8.3	12.0	4
JUL 17...	0830	4.6	2900	7.4	19.0	23
SEP 16...	0740	21	2070	8.2	14.5	48

GREEN RIVER BASIN

67

09276600 WEST FORK DUCHESNE RIVER ABOVE NORTH FORK, NEAR HANNA, UT

LOCATION.--Lat 40°27'42", long 110°50'10", in SE¹/₄SE¹/₄SW¹/₄ sec. 19, T. 1 N., R. 8 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank .2 mi above confluence with North Fork of Duchesne River and 4.5 mi northwest of Hanna.

DRAINAGE AREA.--89.1 mi².

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,880 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. One small diversion for irrigation above station. Flow regulated by Vat diversion, 12 miles above the station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 614 ft³/s June 26, 1995, gage height, 4.06 ft, from rating curve extended above 160 ft³/s; minimum daily discharge, 6.8 ft³/s Aug. 30, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 454 ft³/s May 23, gage height, 3.78 ft; minimum daily discharge 11ft³/s Jan. 13,14,15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	19	e13	e14	e15	e20	e24	57	299	64	44	36
2	21	e18	e13	e14	e15	e20	e24	53	259	62	41	38
3	22	e18	e13	e13	e16	e21	e25	52	258	65	40	41
4	19	e18	e13	e12	e16	e21	e26	54	274	63	51	37
5	18	e17	e13	e12	e17	e22	e27	58	226	60	57	35
6	18	e18	e14	e13	e18	e22	28	62	192	58	50	35
7	18	e18	e14	e13	e18	e22	27	65	132	56	46	38
8	18	e18	e15	e13	e18	e23	27	67	131	55	42	36
9	18	19	e14	e13	e19	e23	28	69	134	61	41	34
10	18	20	e14	e12	e20	e23	28	73	97	60	45	41
11	18	21	e13	e12	e20	e24	28	78	68	53	44	45
12	18	18	e13	e12	e20	e24	28	81	56	54	61	39
13	18	18	e14	e11	e21	e24	29	83	62	52	56	35
14	19	18	e13	e11	e22	e24	29	83	54	49	51	35
15	18	e18	e13	e11	e23	e23	29	125	50	47	44	35
16	18	e18	e13	e12	e24	e23	32	229	49	45	42	38
17	18	e17	e12	e12	e25	e23	39	254	47	45	40	34
18	18	e17	e12	e12	e24	e23	48	236	46	49	40	34
19	19	e17	e12	e13	e24	e22	55	236	45	52	39	46
20	18	e17	e12	e13	e23	e22	63	279	43	48	38	39
21	20	e16	e13	e14	e22	e22	81	227	43	47	38	35
22	20	e16	e13	e15	e21	e21	70	216	42	47	40	32
23	19	e16	e13	e15	e21	e21	68	275	42	50	38	30
24	20	e15	e14	e15	e21	e20	62	128	41	48	37	30
25	20	e14	e14	e14	e22	e20	56	71	40	46	36	29
26	21	e15	e14	e14	e23	e21	45	61	40	46	36	40
27	22	e14	e14	e15	e22	e21	49	57	40	47	36	36
28	21	e14	e13	e15	e21	e22	55	54	39	51	36	31
29	21	e15	e13	e14	---	e22	57	72	38	49	35	30
30	20	e14	e13	e14	---	e23	52	155	61	45	34	29
31	20	---	e14	e14	---	e23	---	241	---	44	35	---
TOTAL	598	511	411	407	571	685	1239	3851	2948	1618	1313	1073
MEAN	19.3	17.0	13.3	13.1	20.4	22.1	41.3	124	98.3	52.2	42.4	35.8
MAX	22	21	15	15	25	24	81	279	299	65	61	46
MIN	18	14	12	11	15	20	24	52	38	44	34	29
AC-FT	1190	1010	815	807	1130	1360	2460	7640	5850	3210	2600	2130
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1997, BY WATER YEAR (WY)												
MEAN	16.5	15.6	14.1	13.2	13.5	16.4	27.2	69.4	74.8	33.4	23.1	19.6
MAX	22.6	18.0	16.9	15.8	20.4	22.1	41.3	137	254	61.1	42.4	35.8
(WY)	1996	1994	1994	1994	1997	1997	1997	1993	1995	1995	1997	1997
MIN	10.6	11.3	10.9	10.9	10.4	11.6	17.1	28.9	15.4	15.5	11.3	9.02
(WY)	1993	1990	1993	1993	1990	1992	1992	1994	1992	1992	1992	1992
SUMMARY STATISTICS												
FOR 1996 CALENDAR YEAR			FOR 1997 WATER YEAR			WATER YEARS 1990 - 1997						
ANNUAL TOTAL				11112.3			15225					
ANNUAL MEAN				30.4			41.7			28.1		
HIGHEST ANNUAL MEAN										45.5		
LOWEST ANNUAL MEAN										16.7		
HIGHEST DAILY MEAN				227			299			421		
LOWEST DAILY MEAN				8.5			11			6.8		
ANNUAL SEVEN-DAY MINIMUM				8.9			12			7.4		
ANNUAL RUNOFF (AC-FT)				22040			30200			20350		
10 PERCENT EXCEEDS				54			65			46		
50 PERCENT EXCEEDS				22			24			18		
90 PERCENT EXCEEDS				13			13			11		

e Estimated

09277500 DUCHESNE RIVER NEAR TABIONA, UT

LOCATION.--Lat 40°18'01", 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 side of bridge on State Highway 35, 6 mi upstream from Rock Creek, and 7 mi southeast of Tabiona.

DRAINAGE AREA.--353 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. Elevation of gage is 6,190 ft above sea level, from topographic map. Prior to Oct. 15, 1934, nonrecording 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 transbasin diversion through Duchesne Tunnel 20 mi upstream.

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 discharge, 18 ft³/s June 5, 6, 1992.

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)
June 1	1500	1220	4.30	June 10	--	*A, 1120	Unknown

Minimum daily discharge, 78 ft³/s Feb. 21, 25, Mar. 1, 4.
(A) Mean Daily (equipment malfunction)

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	106	93	90	90	78	115	230	984	243	105	128
2	95	104	94	90	89	87	112	219	912	204	103	136
3	98	104	88	95	86	83	115	211	715	191	100	157
4	97	104	92	87	87	78	116	214	e770	167	116	142
5	94	106	96	84	87	83	116	238	e842	151	e146	135
6	93	98	96	e84	86	84	108	269	e790	141	129	129
7	92	99	94	e82	80	82	111	304	e882	133	130	140
8	92	103	93	e83	e80	85	111	334	e870	122	119	143
9	94	103	93	e83	e82	83	119	363	e990	118	114	140
10	95	101	96	e82	e83	83	126	396	e1120	118	124	138
11	95	99	97	e82	e85	88	116	436	e1080	107	128	155
12	94	100	96	e81	88	91	114	475	e1040	110	152	155
13	93	100	98	e81	87	92	107	552	e960	105	166	142
14	100	100	93	e81	87	89	113	599	882	99	152	142
15	98	96	85	e80	88	95	111	650	799	97	146	138
16	97	98	97	e81	86	100	119	751	759	89	133	149
17	98	92	86	e82	88	113	133	803	749	103	130	138
18	100	102	87	e82	87	119	152	852	804	100	131	146
19	103	104	e87	e86	80	127	175	823	890	103	126	186
20	103	103	e86	e87	88	137	189	824	851	98	126	177
21	99	103	e86	e88	78	148	226	748	781	93	128	162
22	99	128	e88	e88	82	154	213	725	715	93	132	149
23	102	113	e89	e90	86	147	209	756	642	101	141	144
24	102	99	e90	e90	82	139	196	677	572	101	141	140
25	112	105	92	e89	78	120	185	611	511	92	132	137
26	107	95	91	e88	88	122	172	529	470	93	133	168
27	107	91	93	e88	87	125	186	475	428	96	135	157
28	109	96	90	86	83	120	220	461	400	98	134	146
29	109	102	89	92	---	121	247	463	353	106	131	141
30	108	92	89	87	---	129	229	585	233	95	124	138
31	108	---	89	92	---	130	---	861	---	97	127	---
TOTAL	3090	3046	2833	2661	2378	3332	4561	16434	22794	3664	4034	4398
MEAN	99.7	102	91.4	85.8	84.9	107	152	530	760	118	130	147
MAX	112	128	98	95	90	154	247	861	1120	243	166	186
MIN	92	91	85	80	78	78	107	211	233	89	100	128
AC-FT	6130	6040	5620	5280	4720	6610	9050	32600	45210	7270	8000	8720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 1997, BY WATER YEAR (WY)

	MEAN	116	119	107	95.2	92.6	99.5	154	489	622	200	108	106
MAX	230	180	151	147	124	153	348	1165	1657	690	216	233	
(WY)	1983	1983	1984	1966	1986	1986	1943	1952	1921	1975	1983	1927	
MIN	37.5	57.6	67.0	59.5	53.3	53.8	53.9	63.9	54.7	40.3	44.1	48.7	
(WY)	1935	1935	1993	1935	1935	1935	1977	1992	1992	1994	1977	1934	

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1919 - 1997

ANNUAL TOTAL	53295	73225	
ANNUAL MEAN	146	201	
HIGHEST ANNUAL MEAN			192
LOWEST ANNUAL MEAN			354
HIGHEST DAILY MEAN	1020	Jun 9	68.9
LOWEST DAILY MEAN	61	Aug 24	1922
ANNUAL SEVEN-DAY MINIMUM	63	Sep 5	2490
ANNUAL RUNOFF (AC-FT)	105700		21
10 PERCENT EXCEEDS	247		30
50 PERCENT EXCEEDS	95		May 31 1992
90 PERCENT EXCEEDS	69		

e Estimated

GREEN RIVER BASIN

69

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, WDR UT-95-1; 1994.

GAGE.--Water-stage recorder. Elevation of gage is 7,250 ft above sea level, from river-profile map. Prior to Apr. 12, 1939, nonrecording gage at site 300 ft upstream at different datum.

REMARKS.--Records good to fair. Flow partially regulated by Upper Stillwater Reservoir 8 mi upstream, beginning Nov. 3, 1987. Total capacity, 32,000 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft³/s June 18, 1971, gage height, 5.98 ft; maximum gage height, 6.26 ft June 4, 1986, from floodmarks; minimum recorded, 7.0 ft³/s Mar. 13, 1940, Mar. 20, 1942 (probably caused by ice jams above station).

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 988 ft³/s May 24, gage height, 4.53 ft; minimum daily discharge, 31 ft³/s Jan. 5, Feb. 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	44	37	38	e33	e34	e44	56	460	e150	182	169
2	45	40	40	38	e34	e33	e42	53	465	107	181	174
3	47	40	32	40	e34	e33	e43	54	508	105	181	174
4	45	40	37	41	e34	e33	43	54	547	86	193	171
5	44	41	39	31	e34	e33	42	55	673	81	146	169
6	43	38	e38	33	e33	e33	41	56	729	75	138	170
7	43	40	e37	35	e33	e34	41	57	740	73	140	169
8	43	38	e36	39	e33	e34	41	59	760	71	159	168
9	43	39	e36	40	e32	e34	43	61	755	88	178	167
10	42	39	e35	39	e31	35	46	76	749	130	182	170
11	42	38	e35	39	e32	36	42	167	727	132	182	175
12	42	38	e34	35	e32	37	40	348	719	134	188	169
13	42	38	e34	34	e33	37	40	359	647	132	184	169
14	47	38	e33	e34	e33	36	41	368	531	130	177	169
15	43	38	e33	e34	e33	37	42	443	e395	125	176	171
16	44	38	e32	e33	e34	38	43	577	317	125	173	169
17	43	38	e32	e33	e34	39	45	636	277	132	175	166
18	43	43	32	e32	e34	39	46	688	330	139	174	173
19	46	41	38	e32	e34	e41	47	744	496	140	173	181
20	43	41	37	e32	e34	43	49	823	636	138	173	179
21	43	40	e37	e33	e35	48	51	855	736	137	175	173
22	43	50	e38	e33	e35	49	49	878	675	134	174	169
23	44	43	e38	e33	e35	50	53	894	571	138	174	170
24	44	40	38	e34	e35	48	e50	939	455	135	175	169
25	47	39	38	34	e35	45	e48	917	370	133	172	168
26	44	38	39	e34	e34	46	48	795	317	132	173	184
27	44	43	39	e34	e34	49	49	581	275	132	172	172
28	46	40	39	e34	e34	47	50	444	243	139	171	169
29	46	39	38	e33	---	45	53	437	214	151	169	169
30	45	37	38	e33	---	44	51	436	185	184	168	169
31	45	---	38	e33	---	45	---	448	---	184	170	---

TOTAL	1366	1199	1127	1080	941	1235	1363	13358	15502	3892	5348	5134
MEAN	44.1	40.0	36.4	34.8	33.6	39.8	45.4	431	517	126	173	171
MAX	47	50	40	41	35	50	53	939	760	184	193	184
MIN	42	37	32	31	31	33	40	53	185	71	138	166
AC-FT	2710	2380	2240	2140	1870	2450	2700	26500	30750	7720	10610	10180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1997, BY WATER YEAR (WY)

MEAN	43.0	39.0	36.1	34.1	34.9	37.7	41.8	122	215	166	74.8	58.7
MAX	69.1	51.1	40.7	40.6	42.0	44.1	53.6	431	517	573	173	171
(WY)	1988	1988	1994	1996	1994	1989	1989	1997	1997	1995	1997	1997
MIN	32.0	30.2	29.5	27.3	29.0	29.9	33.5	41.3	43.7	44.0	41.8	38.4
(WY)	1990	1990	1991	1991	1988	1988	1995	1992	1992	1991	1991	1993

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1988 - 1997

ANNUAL TOTAL	26638	51545	75.4	
ANNUAL MEAN	72.8	141	141	1997
HIGHEST ANNUAL MEAN			40.1	1992
LOWEST ANNUAL MEAN				
HIGHEST DAILY MEAN	516	939	1180	Jul 3 1995
LOWEST DAILY MEAN	32	31		
ANNUAL SEVEN-DAY MINIMUM	33	32		
ANNUAL RUNOFF (AC-FT)	52840	102200	54610	Dec 30 1987
10 PERCENT EXCEEDS	126	436	108	
50 PERCENT EXCEEDS	44	45	42	
90 PERCENT EXCEEDS	38	34	31	

e Estimated

09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UT

LOCATION.--Lat 40°16'14", long 110°26'31", in NE¹/₄NW¹/₄NW¹/₄ sec. 34, T. 2 S., R. 5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank at downstream edge of bridge on State Highway 35, 1.7 mi up-stream 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. Elevation of gage is 5,840 ft above sea level, from topographic map. Prior to Apr. 25, 1973, at site 150 ft upstream at different gage datum.

REMARKS.--Records good. Several diversions above station for irrigation, including a transmountain diversion to the Great Basin through Duchesne Tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,970 ft³/s June 6, 1986, gage height, 7.52 ft, from flood-marks; 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)
June 10	0900	*2260	*6.91				
Minimum daily discharge, 110 ft ³ /s Dec.18							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	175	141	149	147	124	177	281	1630	372	252	e267
2	145	169	144	151	148	139	175	265	1580	273	245	e280
3	150	168	124	169	142	142	187	254	1160	250	240	e301
4	154	165	134	138	142	121	184	251	1310	206	e280	e283
5	149	170	145	130	140	129	179	268	1440	189	e262	e274
6	148	156	159	132	138	139	165	293	1420	184	e238	e269
7	147	155	153	121	135	139	172	321	1630	178	e240	e279
8	145	164	158	141	130	144	173	342	1560	171	e248	e281
9	144	164	160	160	130	138	187	358	1650	165	e262	e277
10	143	159	168	163	131	145	203	383	2120	204	e284	e278
11	145	159	170	159	139	152	184	458	1970	207	e280	e300
12	139	162	166	135	140	162	180	687	1750	209	e310	e294
13	137	160	169	124	137	163	172	776	1560	206	e320	e281
14	151	158	150	138	138	151	184	785	1370	200	e299	e281
15	146	151	127	154	148	165	181	878	1200	195	e292	e279
16	143	151	154	163	141	175	188	1210	1000	188	e276	e288
17	147	145	124	154	147	195	202	1340	916	195	e275	e275
18	150	168	110	164	143	199	219	1430	1020	203	e275	e289
19	155	172	132	165	131	208	241	1450	1290	207	e269	e337
20	156	168	148	158	143	221	257	1550	1450	201	e269	e335
21	150	164	171	163	124	235	298	1550	1550	199	e273	e305
22	155	207	168	148	129	243	289	1520	1400	195	e276	e288
23	172	190	157	149	145	223	287	1580	1210	203	e285	e284
24	170	163	159	135	132	223	285	1560	981	207	e286	e279
25	183	166	153	135	125	186	258	1440	818	199	e274	e285
26	175	154	164	147	142	192	241	1260	713	200	e276	e322
27	174	141	163	152	149	198	247	958	642	207	e277	e299
28	176	151	158	145	140	191	275	768	580	220	e275	e285
29	183	163	154	145	---	180	307	752	517	229	e275	e293
30	181	145	152	136	---	181	285	875	366	250	e270	e277
31	178	---	151	143	---	183	---	1220	---	255	e267	---
TOTAL	4838	4883	4686	4566	3876	5386	6582	27063	37803	6567	8450	8665
MEAN	156	163	151	147	138	174	219	873	1260	212	273	289
MAX	183	207	171	169	149	243	307	1580	2120	372	320	337
MIN	137	141	110	121	124	121	165	251	366	165	238	267
AC-FT	9600	9690	9290	9060	7690	10680	13060	53680	74980	13030	16760	17190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1997, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
MEAN	192	190	163	152	147	160	211	655	1137	423	187	168															
MAX	430	308	238	209	198	235	464	1525	2929	1447	443	350															
(WY)	1983	1983	1984	1984	1986	1986	1985	1984	1986	1975	1983	1983															
MIN	100	124	107	117	116	103	86.3	106	94.0	94.7	84.4	77.6															
(WY)	1978	1978	1991	1978	1977	1977	1977	1990	1992	1994	1996	1992															

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1971 - 1997

ANNUAL TOTAL	82111	123365	
ANNUAL MEAN	224	338	
HIGHEST ANNUAL MEAN			315
LOWEST ANNUAL MEAN			580
HIGHEST DAILY MEAN	1400	2120	4700
LOWEST DAILY MEAN	77	110	54
ANNUAL SEVEN-DAY MINIMUM	79	133	60
ANNUAL RUNOFF (AC-FT)	162900	244700	228500
10 PERCENT EXCEEDS	421	933	616
50 PERCENT EXCEEDS	154	184	168
90 PERCENT EXCEEDS	86	139	111

e Estimated

GREEN RIVER BASIN

71

09286100 RED CREEK ABOVE RESERVOIR, NEAR FRUITLAND, UT

LOCATION.--Lat 40°19'48", long 110°51'43", in SW¹/₄SE¹/₄SE¹/₄, sec. 2, T. 2 S., R. 9 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 2 mi above Red Creek Dam and 9.2 mi north of Fruitland.

DRAINAGE AREA.--31.4 mi².

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,320 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 188 ft³/s May 4, 1993, gage height, 2.95 ft from highwater mark; minimum recorded discharge, .03 ft³/s Mar. 20, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 125 ft³/s May 16, gage height, 2.94 ft; minimum daily discharge, 1.1 ft³/s several days in February.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	3.0	e2.3	e2.6	e1.2	e2.8	6.6	37	40	9.5	5.7	5.0
2	2.8	3.7	e2.1	e2.4	e1.2	e2.8	6.2	25	40	9.4	5.2	5.5
3	4.5	3.0	e1.9	e2.2	e1.2	e2.8	7.0	24	36	9.4	4.8	5.1
4	2.5	3.0	e2.2	e2.0	e1.1	e2.8	9.0	31	33	9.4	6.3	4.4
5	2.3	3.5	e2.5	e1.6	e1.1	e2.7	8.4	44	32	9.1	8.6	3.4
6	2.1	3.1	e2.3	e1.7	e1.1	e2.6	7.4	54	31	8.5	6.3	3.4
7	2.0	4.5	e2.5	e1.8	e1.1	e2.5	7.5	50	29	8.0	7.2	3.9
8	2.0	4.3	e2.6	e1.8	e1.1	e2.6	7.8	54	33	7.6	4.7	4.6
9	1.9	3.3	e2.5	e1.9	e1.2	e2.6	8.9	52	37	7.5	4.1	3.6
10	1.9	3.3	e2.4	e1.9	e1.2	e2.6	9.1	57	37	7.4	4.7	13
11	1.9	2.9	e2.5	e1.6	e1.2	e2.6	7.6	66	30	7.1	4.7	5.6
12	2.0	2.9	e2.6	e1.3	e1.2	e2.7	7.2	76	28	7.5	9.8	5.4
13	2.0	3.1	e2.4	e1.3	e1.3	e2.7	6.9	77	29	7.3	8.2	3.5
14	3.7	2.9	e2.2	e1.4	e2.5	2.7	7.8	72	29	6.3	5.1	3.4
15	2.9	2.8	e2.1	e1.5	e2.7	2.8	9.0	88	24	6.0	4.2	4.3
16	2.4	e2.3	e2.1	e1.4	e2.8	3.8	12	92	22	5.8	3.9	4.7
17	2.3	e2.0	e1.7	e1.4	e2.9	4.9	17	96	21	5.1	3.7	3.3
18	2.2	e2.3	e1.8	e1.5	e3.0	5.0	24	90	20	5.9	3.5	5.1
19	3.1	e3.1	e1.9	e1.5	3.4	5.6	25	84	19	7.1	3.2	10
20	2.9	e2.9	e2.0	e1.5	e3.2	6.0	27	78	17	6.3	3.0	6.5
21	3.1	e3.0	e2.1	e1.4	3.3	7.1	36	78	16	5.8	3.1	5.0
22	3.7	e2.7	e2.0	e1.4	e3.1	7.7	28	68	15	5.8	2.9	4.0
23	3.0	e2.6	e1.9	e1.3	e3.0	8.5	29	65	14	6.7	2.8	3.7
24	2.8	e2.5	e2.2	e1.3	e2.9	8.0	20	78	13	6.4	3.0	3.4
25	3.6	e2.3	e2.4	e1.4	e2.8	6.6	18	68	13	5.5	2.8	3.5
26	3.0	e2.4	e2.4	e1.4	e2.7	7.1	22	52	12	4.8	2.7	7.9
27	3.4	e2.2	e2.5	e1.3	e2.8	7.9	34	43	12	4.9	2.8	6.3
28	4.5	e2.3	e2.5	e1.3	e2.8	7.1	50	36	11	5.8	2.9	4.6
29	3.6	e2.2	e2.5	e1.3	---	6.7	60	37	10	7.0	3.2	3.6
30	3.4	e2.2	e2.6	e1.2	---	6.8	43	38	9.9	5.5	3.3	3.2
31	3.4	---	e2.6	e1.2	---	7.6	---	39	---	5.9	3.6	---
TOTAL	87.4	86.3	70.3	48.8	59.1	146.7	561.4	1849	712.9	214.3	140.0	148.9
MEAN	2.82	2.88	2.27	1.57	2.11	4.73	18.7	59.6	23.8	6.91	4.52	4.96
MAX	4.5	4.5	2.6	2.6	3.4	8.5	60	96	40	9.5	9.8	13
MIN	1.9	2.0	1.7	1.2	1.1	2.5	6.2	24	9.9	4.8	2.7	3.2
AC-FT	173	171	139	97	117	291	1110	3670	1410	425	278	295

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1997, BY WATER YEAR (WY)

	MEAN	2.10	2.33	2.16	1.93	2.28	3.93	9.43	20.3	12.7	3.71	1.73	1.92
MAX	4.29	4.00	3.50	2.59	3.30	6.83	18.7	59.6	50.5	12.8	4.52	4.96	
(WY)	1987	1987	1987	1990	1991	1989	1997	1997	1995	1995	1997	1997	
MIN	1.28	1.39	1.30	1.17	1.30	2.97	4.53	4.43	1.77	.55	.35	.62	
(WY)	1993	1989	1993	1989	1993	1993	1992	1992	1992	1994	1992	1994	

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1987 - 1997

ANNUAL TOTAL	2647.92	4125.1	
ANNUAL MEAN	7.23	11.3	
HIGHEST ANNUAL MEAN			5.39
LOWEST ANNUAL MEAN			11.3
HIGHEST DAILY MEAN	50	96	1997
LOWEST DAILY MEAN	.94	1.1	1992
ANNUAL SEVEN-DAY MINIMUM	1.1	1.1	May 17 1997
ANNUAL RUNOFF (AC-FT)	5250	8180	.16 Jul 29 1992
10 PERCENT EXCEEDS	21	36	12
50 PERCENT EXCEEDS	3.0	3.6	2.5
90 PERCENT EXCEEDS	1.7	1.7	1.1

e Estimated

GREEN RIVER BASIN

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 30 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. Elevation of gage is 6,670 ft above sea level, 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.--No estimated daily discharges. Records good. 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.

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, 212 ft³/s Sept. 02, gage height 2.68 ft; minimum discharge, 15 ft³/s Feb. 22, 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	41	34	34	35	30	47	83	81	62	58	59
2	38	39	32	33	35	33	55	73	81	61	57	69
3	36	38	27	37	32	34	58	72	80	62	55	64
4	37	37	30	29	33	29	59	74	76	62	66	60
5	35	40	33	27	33	31	57	79	75	60	77	58
6	35	34	36	25	31	33	54	84	75	60	66	58
7	34	34	33	28	26	33	54	88	75	60	67	59
8	33	34	34	34	28	35	55	94	84	59	103	58
9	33	35	34	37	34	34	58	98	91	58	108	57
10	32	33	36	36	32	35	58	104	90	61	112	63
11	31	33	37	34	36	37	55	107	80	61	109	59
12	32	34	37	27	34	38	53	110	80	63	76	58
13	32	35	36	25	32	39	52	109	83	62	69	57
14	35	36	33	28	32	38	53	108	81	61	64	57
15	34	36	26	32	35	39	54	109	78	59	63	58
16	34	35	32	33	33	41	57	106	77	58	61	58
17	33	33	24	33	33	43	62	105	74	58	60	56
18	34	42	25	34	33	44	67	106	73	59	60	67
19	37	42	31	36	31	46	69	104	71	60	59	75
20	36	41	36	36	33	48	71	106	71	60	58	64
21	35	41	38	36	29	50	78	110	70	58	59	60
22	34	53	37	36	30	51	73	102	68	57	59	59
23	35	48	36	35	34	53	77	98	66	59	58	59
24	36	44	35	33	29	51	71	107	66	58	58	59
25	39	43	34	32	29	45	67	109	66	57	54	59
26	40	40	37	34	34	47	66	99	65	58	55	76
27	39	34	35	35	35	50	72	93	66	57	56	62
28	38	36	34	31	34	49	82	88	64	60	57	59
29	40	38	34	35	---	47	98	87	63	60	58	59
30	41	34	34	31	---	46	83	84	62	59	58	59
31	43	---	34	34	---	48	---	82	---	58	58	---
TOTAL	1110	1143	1034	1010	905	1277	1915	2978	2232	1847	2078	1825
MEAN	35.8	38.1	33.4	32.6	32.3	41.2	63.8	96.1	74.4	59.6	67.0	60.8
MAX	43	53	38	37	36	53	98	110	91	63	112	76
MIN	31	33	24	25	26	29	47	72	62	57	54	56
AC-FT	2200	2270	2050	2000	1800	2530	3800	5910	4430	3660	4120	3620
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1997, BY WATER YEAR (WY)												
MEAN	31.2	31.2	29.2	29.7	31.3	36.1	49.5	58.3	48.9	37.5	35.5	35.5
MAX	47.2	44.0	39.4	38.3	45.5	60.7	84.3	117	91.5	59.6	67.0	60.8
(WY)	1987	1987	1986	1987	1986	1986	1986	1986	1986	1997	1997	1997
MIN	25.7	24.9	22.7	23.2	24.3	26.9	31.6	27.5	25.4	25.8	24.6	24.6
(WY)	1989	1991	1992	1992	1989	1992	1992	1992	1992	1992	1988	1988
SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1986 - 1997												
ANNUAL TOTAL	16218			19354			37.8			1986		
ANNUAL MEAN	44.3			53.0			58.5			1992		
HIGHEST ANNUAL MEAN							26.1					
LOWEST ANNUAL MEAN							177			Jun 3 1995		
HIGHEST DAILY MEAN	152			112			Aug 10					
LOWEST DAILY MEAN	24			24			Dec 17					
ANNUAL SEVEN-DAY MINIMUM	30			30			Dec 13					
ANNUAL RUNOFF (AC-FT)	32170			38390			27410			Dec 20 1990		
10 PERCENT EXCEEDS	62			82			56					
50 PERCENT EXCEEDS	39			53			33					
90 PERCENT EXCEEDS	32			32			25					

GREEN RIVER BASIN

73

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. Elevation of gage is 5,722 ft above sea level, from topographic map.

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

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 daily discharge 881 ft³/s May 17; minimum daily discharge, 62 ft³/s Nov. 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	99	e67	e75	e77	e93	157	339	519	195	173	249
2	98	101	e66	e75	e76	e92	163	324	504	184	169	244
3	96	105	e65	e76	e74	e90	175	303	447	182	167	254
4	97	108	e64	e77	e73	e90	180	284	418	182	181	253
5	89	102	e63	e77	e72	93	170	281	398	181	223	245
6	89	69	e66	e76	e71	99	162	295	379	172	186	240
7	89	75	e67	e75	e70	93	166	319	364	171	187	240
8	86	88	e69	e73	e70	92	166	384	377	169	201	239
9	86	82	e70	e72	e72	92	178	418	398	167	220	235
10	87	81	e72	e70	e74	98	184	435	401	164	227	237
11	88	82	e70	e69	e77	106	173	457	368	168	232	242
12	89	99	e68	e70	e79	121	169	524	341	176	226	236
13	90	102	e67	e71	e83	128	165	605	340	180	220	230
14	93	101	e66	e73	e85	119	170	678	332	169	199	231
15	92	82	e64	e75	e88	124	171	765	307	169	190	228
16	92	62	e64	e76	e92	137	175	865	295	160	181	232
17	90	69	e65	e77	e94	161	183	881	277	160	184	227
18	84	101	e66	e78	e96	167	194	864	266	163	196	238
19	97	83	e66	e82	e95	180	207	851	257	183	200	303
20	97	105	e67	e83	e94	192	223	833	242	183	206	270
21	70	103	e67	e85	e93	203	249	825	241	174	239	250
22	78	122	e68	e85	e92	204	271	780	237	156	247	235
23	98	119	e68	e85	e89	188	287	722	226	171	239	233
24	99	105	e69	e84	e89	189	306	718	220	187	238	227
25	100	103	e70	e83	e87	162	277	765	214	179	230	229
26	99	101	e70	e82	e88	156	255	706	208	164	252	266
27	73	78	e71	e81	e90	161	251	620	210	163	304	252
28	101	e76	e72	e79	e93	161	284	569	203	171	246	233
29	105	e72	e73	e78	---	155	324	537	199	185	244	231
30	104	e68	e74	e77	---	151	339	493	199	177	239	228
31	104	---	e75	e77	---	155	---	512	---	179	244	---
TOTAL	2860	2743	2109	2396	2333	4252	6374	17952	9387	5384	6690	7257
MEAN	92.3	91.4	68.0	77.3	83.3	137	212	579	313	174	216	242
MAX	105	122	75	85	96	204	339	881	519	195	304	303
MIN	70	62	63	69	70	90	157	281	199	156	167	227
AC-FT	5670	5440	4180	4750	4630	8430	12640	35610	18620	10680	13270	14390
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1997, BY WATER YEAR (WY)												
MEAN	102	90.2	89.4	85.3	91.3	110	172	411	280	136	112	109
MAX	378	243	372	362	336	293	387	1031	1181	518	403	371
(WY)	1984	1984	1984	1984	1984	1983	1983	1984	1983	1983	1983	1984
MIN	37.1	57.0	47.9	40.8	48.5	59.6	57.5	44.2	32.9	36.9	29.9	33.8
(WY)	1978	1978	1978	1977	1971	1977	1977	1977	1977	1977	1977	1977
SUMMARY STATISTICS												
FOR 1996 CALENDAR YEAR			FOR 1997 WATER YEAR				WATER YEARS 1968 - 1997					
ANNUAL TOTAL			46866			69737						
ANNUAL MEAN			128			191						
HIGHEST ANNUAL MEAN									148			
LOWEST ANNUAL MEAN									443			
									47.5			
HIGHEST DAILY MEAN			547			May 16			881			
LOWEST DAILY MEAN			56			Jan 27			62			
ANNUAL SEVEN-DAY MINIMUM			59			Jan 25			65			
ANNUAL RUNOFF (AC-FT)			92960						138300			
10 PERCENT EXCEEDS			209						340			
50 PERCENT EXCEEDS			101						163			
90 PERCENT EXCEEDS			69						71			
									59			

e Estimated

GREEN RIVER BASIN

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 current year.

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

GAGE.--Water-stage recorder. Elevation of gage is 8,180 ft above sea level, from topographic map. April 1933 to September 1934, at site 2.5 mi upstream at different datum. July 13, 1942 to Oct. 1, 1984, at datum 1.00 ft lower.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,740 ft³/s June 27, 1995, gage height, 6.44 ft, minimum daily, 12 ft³/s several days in 1993, 1996 and 1997.

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 4	2130	*1950	*6.11	June 19	2100	1520	5.77

Minimum daily discharge, 12 ft³/s Jan. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	42	e26	e17	e14	e14	30	78	1300	301	131	81
2	48	41	e24	e17	e14	e14	33	70	1390	265	116	96
3	51	42	e22	e17	e14	e14	26	68	1320	240	108	109
4	53	42	e21	e16	e14	e14	27	75	1470	230	172	107
5	48	41	e20	e16	e14	e14	25	96	1480	222	234	92
6	46	44	e19	e16	e13	e15	33	124	1380	213	171	93
7	44	52	e18	e16	e13	e15	31	153	1240	208	150	84
8	42	47	e17	e17	e13	e15	25	168	1390	205	132	80
9	41	40	e16	e18	e13	e15	24	188	1450	199	122	94
10	40	39	e15	e18	e13	e15	22	216	1450	185	134	104
11	39	38	15	e17	e13	e16	25	254	1160	178	135	145
12	38	38	e15	e15	e13	e16	25	295	934	174	193	174
13	38	38	e16	e14	e13	e16	36	338	756	159	196	145
14	44	38	e16	e13	e14	e16	25	379	696	e152	148	151
15	42	34	e17	e12	e15	e17	20	502	604	e147	127	155
16	40	e34	e16	e13	e15	e17	23	634	630	e143	114	173
17	36	e34	e15	e13	e15	e17	28	746	816	139	118	136
18	40	e35	e14	e13	e14	e18	38	842	926	146	129	181
19	46	36	e14	e13	e14	19	48	843	1140	149	104	383
20	42	36	e14	e13	e14	22	60	864	1090	133	98	330
21	48	36	e15	e14	e13	26	71	736	978	130	119	306
22	48	38	e15	e14	e13	29	65	734	870	141	108	248
23	45	37	e15	e14	e13	29	62	749	697	151	106	232
24	42	43	e16	e14	e14	30	56	688	580	154	105	214
25	46	36	e16	e15	e14	30	51	556	506	136	90	178
26	44	e35	e17	e15	e13	28	53	426	470	126	88	321
27	46	e33	e17	e16	e13	32	66	359	441	156	86	245
28	44	e31	e18	e16	e14	30	83	323	400	183	80	209
29	44	e30	e18	e15	---	30	90	395	369	169	84	191
30	44	e28	e18	e15	---	29	82	601	339	139	72	169
31	44	---	e18	e15	---	28	---	958	---	131	72	---
TOTAL	1361	1138	533	467	382	640	1283	13458	28272	5404	3842	5226
MEAN	43.9	37.9	17.2	15.1	13.6	20.6	42.8	434	942	174	124	174
MAX	53	52	26	18	15	32	90	958	1480	301	234	383
MIN	36	28	14	12	13	14	20	68	339	126	72	80
AC-FT	2700	2260	1060	926	758	1270	2540	26690	56080	10720	7620	10370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1997, BY WATER YEAR (WY)

	MEAN	51.4	38.7	30.3	25.9	23.7	24.3	40.8	253	541	220	96.0	69.4
MAX	142	80.1	61.3	40.1	39.5	46.5	89.5	578	946	772	212	174	
(WY)	1983	1983	1983	1983	1988	1988	1969	1969	1995	1995	1965	1997	
MIN	26.3	22.9	15.0	14.8	13.6	15.0	18.6	65.9	187	61.9	46.5	32.1	
(WY)	1989	1980	1993	1993	1997	1977	1993	1977	1992	1994	1988	1988	

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1964 - 1997

ANNUAL TOTAL	38455	62006	
ANNUAL MEAN	105	170	
HIGHEST ANNUAL MEAN			118
LOWEST ANNUAL MEAN			195
HIGHEST DAILY MEAN	1140	1480	60.4
LOWEST DAILY MEAN	12	12	2120
ANNUAL SEVEN-DAY MINIMUM	13	13	13
ANNUAL RUNOFF (AC-FT)	76280	123000	85490
10 PERCENT EXCEEDS	275	526	300
50 PERCENT EXCEEDS	39	44	43
90 PERCENT EXCEEDS	16	14	21

e Estimated

GREEN RIVER BASIN

75

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 8064.16 ft above sea level, (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, 35,760 acre-ft June 1 and July 1, elevation, 8,137.0 ft; minimum contents observed, 10410 acre-ft October 2, elevation, 8,098.0 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Oct 31	8103.8	13,540	+3,180
Nov. 30	--	*15,710	+2,170
Dec. 31	--	*17,800	+2,090
CAL YR 1996	--	--	-7,370
Jan. 31	--	*19,960	+2,160
Feb. 29	--	*21,820	+1,860
Mar. 31	--	*23,940	+2,120
Apr. 30	--	*29,400	+5,460
May 31	--	*35,760	+6,360
June 30	--	*35,760	0
July 31	--	*27,180	-8,580
Aug. 31	--	*21,690	-5,490
Sept. 30	--	*26,480	+4,790
WTR YR 1997	--	--	+16,120

* No gage reading, contents interpolated.

Readings normally made on the first of each month.

GREEN RIVER BASIN

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. Elevation of gage is 7,970 ft above sea level by barometer. Prior to April 1942, at damsite 2,000 ft upstream at different datum.

REMARKS.--Records fair. Flow regulated by Moon Lake Reservoir (see station 09290500). No diversion above station.

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, 1,500 ft³/s June 4, gage height, 4.51 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	765	338	340	303
2	.00	.00	.00	.00	.00	.00	.00	.00	1270	318	337	278
3	.00	.00	.00	.00	.00	.00	.00	.00	1020	305	337	246
4	.00	.00	.00	.00	.00	.00	.00	104	1030	347	336	233
5	.00	.00	.00	.00	.00	.00	.00	318	1210	340	293	232
6	.00	.00	.00	.00	.00	.00	.00	375	1080	338	260	232
7	.00	.00	.00	.00	.00	.00	.00	305	1000	334	261	231
8	.00	.00	.00	.00	.00	.00	.00	300	1070	368	263	232
9	.00	.00	.00	.00	.00	.00	.00	291	1230	387	286	231
10	.00	.00	.00	.00	.00	.00	.00	287	1200	382	287	231
11	.00	.00	.00	.00	.00	.00	.00	288	940	359	243	231
12	.00	.00	.00	.00	.00	.00	.00	292	805	338	137	231
13	.00	.00	.00	.00	.00	.00	.00	317	697	337	50	231
14	.00	.00	.00	.00	.00	.00	.00	356	655	340	.00	170
15	.00	.00	.00	.00	.00	.00	.00	409	640	353	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	426	622	350	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	443	619	349	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	471	622	365	41	.00
19	.00	.00	.00	.00	.00	.00	.00	448	856	376	277	.00
20	.00	.00	.00	.00	.00	.00	.00	436	818	373	348	.00
21	.00	.00	.00	.00	.00	.00	.00	452	788	370	360	.00
22	.00	.00	.00	.00	.00	.00	.00	468	706	369	341	.00
23	.00	.00	.00	.00	.00	.00	.00	483	669	368	329	.00
24	.00	.00	.00	.00	.00	.00	.00	495	636	368	329	.00
25	.00	.00	.00	.00	.00	.00	.00	499	625	366	319	.00
26	.00	.00	.00	.00	.00	.00	.00	502	417	364	307	.00
27	.00	.00	.00	.00	.00	.00	.00	429	262	359	307	.00
28	.00	.00	.00	.00	.00	.00	.00	376	288	343	305	.00
29	.00	.00	.00	.00	---	.00	.00	346	347	343	303	.00
30	.00	.00	.00	.00	---	.00	.00	330	346	340	303	.00
31	.00	---	.00	.00	---	.00	---	344	---	340	303	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10590.00	23233	10927	7602.00	3312.00
MEAN	.000	.000	.000	.000	.000	.000	.000	342	774	352	245	110
MAX	.00	.00	.00	.00	.00	.00	.00	502	1270	387	360	303
MIN	.00	.00	.00	.00	.00	.00	.00	.00	262	305	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	21010	46080	21670	15080	6570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1997, BY WATER YEAR (WY)

MEAN	48.9	7.70	.97	1.44	2.27	3.02	48.5	298	362	357	250	141
MAX	202	120	17.3	28.2	44.4	72.3	202	555	920	717	410	326
(WY)	1983	1966	1984	1984	1966	1966	1943	1969	1983	1995	1944	1984
MIN	.000	.000	.000	.000	.000	.000	.000	130	144	155	35.6	.000
(WY)	1991	1948	1943	1943	1943	1943	1944	1977	1945	1961	1989	1992

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1943 - 1997

ANNUAL TOTAL	47481.00	55664.00	
ANNUAL MEAN	130	153	127
HIGHEST ANNUAL MEAN			211
LOWEST ANNUAL MEAN			60.9
HIGHEST DAILY MEAN	734	1270	2000
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
ANNUAL RUNOFF (AC-FT)	94180	110400	92320
10 PERCENT EXCEEDS	372	427	364
50 PERCENT EXCEEDS	.00	.00	14
90 PERCENT EXCEEDS	.00	.00	.00

GREEN RIVER BASIN

77

09292000 YELLOWSTONE RIVER AT BRIDGE CAMPGROUND, NEAR ALTONAH, UT

LOCATION.--Lat 40°32'47", long 110°19'59", in SW¹/₄NW¹/₄NW¹/₄ sec. 27, T. 2 N., R. 4 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on right bank .5 mi upstream from power plant of Moon Lake Electric Association, Inc., 1.5 mi downstream from Yellowstone Ranch, 10.6 mi northwest of Altonah.

DRAINAGE AREA.--114 mi².

PERIOD OF RECORD.--October 1996 to September 1997.

GAGE.--Water-stage recorder. Elevation of gage is 7,650 ft. above sea level, from USGS topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1260 ft³/s June 4, 1997, gage height 6.38 ft. Minimum daily discharge 19 ft³/s Feb. 13, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1260 ft³/s June 4, gage height 6.38 ft. minimum daily discharge 19 ft³/s Feb. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	e43	e33	e27	e23	e31	37	49	922	e210	90	109
2	61	e42	e31	e26	e23	e35	37	48	951	e198	82	144
3	66	e43	e30	e26	e23	e32	39	43	879	e180	76	165
4	66	e43	e29	e25	e24	e34	37	44	941	e175	137	164
5	61	e42	e29	e25	e26	e38	37	58	943	e165	207	144
6	59	e41	e28	e24	e26	e39	34	79	863	e160	136	139
7	57	e43	e28	e24	e24	e37	50	100	807	e160	120	132
8	56	e45	e28	e25	e23	31	28	111	917	e163	107	129
9	54	e43	e27	e26	e23	33	39	125	882	e154	98	142
10	e53	e42	e27	e26	e25	28	38	152	903	147	109	168
11	e54	e42	e27	e24	e23	26	38	185	763	144	116	160
12	e54	e44	e26	e22	e20	27	38	218	646	146	169	199
13	e52	e44	e26	e22	e19	28	38	245	547	135	184	149
14	e54	e43	e26	e22	e20	30	34	254	516	125	139	148
15	e53	e41	e25	e24	e22	29	35	333	452	121	121	159
16	e52	e46	e25	e25	e23	32	41	394	e430	117	107	178
17	e50	e44	e24	e25	e21	34	43	472	e450	116	102	138
18	e50	e42	e24	e25	e23	29	44	630	e590	119	106	153
19	e48	e41	e24	e25	e22	31	51	618	e700	129	94	279
20	e48	e40	e23	e25	e21	46	58	594	e700	117	88	282
21	e46	e39	e23	e25	e24	29	64	501	e630	112	108	301
22	e44	e38	e24	e27	e27	30	51	518	e540	109	98	258
23	e45	e38	e24	e28	e29	31	48	544	e500	109	94	226
24	e43	e37	e25	e28	e27	39	46	534	e410	114	110	184
25	e43	e37	e26	e28	e28	31	e43	445	e340	102	114	149
26	e43	e35	e26	e27	e30	31	e45	375	e310	96	112	267
27	e44	e35	e26	e26	e29	33	47	341	e290	89	113	249
28	e45	e35	e27	e25	e28	33	51	319	e280	97	106	202
29	e45	e35	e27	e24	---	32	59	352	e250	116	107	180
30	e44	e34	e27	e24	---	32	53	487	e230	97	97	159
31	e44	---	e27	e24	---	34	---	721	---	92	99	---
TOTAL	1596	1217	822	779	676	1005	1303	9889	18582	4114	3546	5456
MEAN	51.5	40.6	26.5	25.1	24.1	32.4	43.4	319	619	133	114	182
MAX	66	46	33	28	30	46	64	721	951	210	207	301
MIN	43	34	23	22	19	26	28	43	230	89	76	109
AC-FT	3170	2410	1630	1550	1340	1990	2580	19610	36860	8160	7030	10820

WTR YR 1997 TOTAL 48985 MEAN 134 MAX 951 MIN 19 AC-FT 97160

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, WDR UT-95-1: 1994.

GAGE.--Water-stage recorder. Elevation of gage is 7,430 ft above sea level, from river-profile map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,360 ft³/s June 11, 1990, gage height, 4.93 ft from rating curve extended above 1,000 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 25 ft³/s Nov. 28, 1976.

EXTREMES FOR CURRENT YEAR.--Recorded 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 4	2400	*1350	*3.58				

Minimum daily discharge, 35 ft³/s Apr. 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	63	e54	e48	e44	42	44	82	1030	256	150	167
2	76	63	e52	e48	e45	57	44	72	1080	238	144	207
3	80	65	e50	e50	e52	43	47	70	935	225	139	225
4	82	66	e50	e49	e52	43	46	71	1020	218	193	227
5	77	65	e50	e44	e46	51	44	86	1050	215	266	207
6	75	57	e50	e44	e48	59	41	102	917	207	202	202
7	74	70	e51	e44	e44	50	53	120	819	207	180	194
8	73	75	e52	e44	e44	43	35	130	981	205	167	188
9	72	62	e54	e46	e44	44	45	141	919	203	158	194
10	71	60	e55	e48	e48	43	45	158	1020	200	170	222
11	70	59	e55	e46	e47	41	40	181	788	196	176	212
12	71	60	e55	e42	e50	42	41	203	637	197	225	248
13	70	60	e54	e38	e55	41	38	228	526	186	243	207
14	76	59	e52	e39	e54	42	41	242	499	174	205	207
15	74	53	e54	e41	52	41	41	322	434	169	183	212
16	72	70	e52	e41	50	41	47	448	400	167	168	231
17	69	57	e50	e40	42	42	49	560	451	166	163	196
18	69	64	e48	e40	42	43	50	672	581	170	167	201
19	72	62	e47	e40	45	44	57	663	719	183	156	334
20	67	59	e45	e40	42	48	62	655	734	170	150	333
21	69	57	e43	e40	43	48	74	558	656	164	169	366
22	68	68	e43	e41	48	48	71	580	592	161	159	303
23	71	60	e43	e42	56	51	72	592	502	162	154	263
24	67	58	e43	e43	46	50	67	582	420	168	170	234
25	72	59	e43	e43	54	45	62	478	365	157	173	208
26	67	53	e43	e43	57	48	61	385	336	152	172	324
27	67	57	e44	e42	42	50	72	330	324	147	172	289
28	69	e56	e44	e43	41	48	85	304	306	153	165	243
29	67	e58	e46	e46	---	46	90	332	286	173	167	225
30	66	e56	e48	e47	---	46	86	462	272	155	158	209
31	66	---	e49	e44	---	48	---	717	---	152	159	---
TOTAL	2214	1831	1519	1346	1333	1428	1650	10526	19599	5696	5423	7078
MEAN	71.4	61.0	49.0	43.4	47.6	46.1	55.0	340	653	184	175	236
MAX	82	75	55	50	57	59	90	717	1080	256	266	366
MIN	66	53	43	38	41	41	35	70	272	147	139	167
AC-FT	4390	3630	3010	2670	2640	2830	3270	20880	38870	11300	10760	14040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1997, BY WATER YEAR (WY)

	MEAN	88.9	69.5	58.1	49.9	47.4	47.8	63.1	244	489	236	149	117
MAX	213	122	95.6	72.0	62.5	78.8	128	599	1011	744	366	236	236
(WY)	1983	1983	1983	1984	1983	1986	1969	1969	1983	1965	1965	1997	1997
MIN	53.0	43.8	36.0	26.5	29.9	31.0	41.1	72.0	161	101	75.7	60.5	60.5
(WY)	1993	1990	1993	1979	1977	1977	1970	1977	1954	1961	1992	1992	1992

SUMMARY STATISTICS

	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1945 - 1997
ANNUAL TOTAL	43058	59643	
ANNUAL MEAN	118	163	
HIGHEST ANNUAL MEAN			138
LOWEST ANNUAL MEAN			235
HIGHEST DAILY MEAN	827	1080	1800
LOWEST DAILY MEAN	43	35	22
ANNUAL SEVEN-DAY MINIMUM	43	40	26
ANNUAL RUNOFF (AC-FT)	85410	118300	100300
10 PERCENT EXCEEDS	283	391	309
50 PERCENT EXCEEDS	67	69	74
90 PERCENT EXCEEDS	48	43	44

e Estimated

GREEN RIVER BASIN
09295000 DUCHESNE RIVER AT MYTON, UT

79

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.--2,750 mi², approximately.

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 above sea level. Prior to Oct. 14, 1933, nonrecording gages at several sites within 0.5 mi of present site at various datums.

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, 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; minimum, less than 1 ft³/s July 16, 1931, and for several days in August and September 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,460 ft³/s June 10, gage height, 6.48 ft; minimum discharge, 15 ft³/s Oct. 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	61	163	e295	e359	340	592	469	1810	159	140	364
2	19	68	172	e290	e380	341	884	460	2930	182	112	438
3	25	73	166	e310	e363	368	512	426	2640	259	109	494
4	28	78	175	e315	e364	334	371	407	2560	171	137	667
5	26	76	213	e290	e360	349	388	357	2680	128	1030	630
6	30	74	228	e300	e348	378	373	337	2480	115	325	618
7	30	76	242	e290	e340	391	361	358	2350	107	192	636
8	28	80	243	e300	e334	448	365	387	2300	84	164	658
9	31	79	259	e320	e340	465	400	420	2620	79	110	651
10	30	80	253	e330	e353	492	448	543	3020	89	163	659
11	31	82	261	e320	e360	623	509	602	3080	118	224	659
12	32	81	304	e308	e368	679	492	872	2280	140	255	700
13	25	84	202	e300	e360	752	480	1100	1990	142	383	662
14	24	163	151	e311	e344	714	469	1100	1680	143	356	677
15	24	197	149	e320	e359	689	466	1120	1440	141	325	641
16	24	197	269	e340	e340	703	462	1360	1180	95	296	654
17	21	192	271	e352	e338	728	467	1600	1010	74	277	617
18	18	198	219	e368	e342	740	479	1870	1050	75	282	627
19	21	222	251	e365	e337	745	492	1860	1360	95	247	905
20	26	224	e290	e362	e338	732	509	1860	1840	112	300	1060
21	26	218	e310	e360	e330	750	488	1930	1890	80	328	1020
22	27	257	e340	e370	328	768	492	2080	1760	72	359	853
23	19	292	e320	e362	353	743	451	2120	1410	78	391	808
24	18	238	e328	e360	350	744	525	2270	1000	120	373	860
25	18	219	e320	e344	330	664	520	2090	708	100	330	805
26	21	216	e330	e348	342	632	470	1820	467	92	310	935
27	27	196	e329	e352	372	613	453	1440	230	97	308	1180
28	32	164	e330	e356	369	601	472	1090	145	99	322	1080
29	43	188	e320	e364	---	577	507	884	120	192	372	1040
30	43	184	e310	e352	---	551	502	918	126	146	343	1010
31	41	---	e300	e361	---	562	---	1200	---	142	339	---

TOTAL	826	4557	8018	10315	9801	18216	14399	35350	50156	3726	9202	22608
MEAN	26.6	152	259	333	350	588	480	1140	1672	120	297	754
MAX	43	292	340	370	380	768	884	2270	3080	259	1030	1180
MIN	18	61	149	290	328	334	361	337	120	72	109	364
AC-FT	1640	9040	15900	20460	19440	36130	28560	70120	99480	7390	18250	44840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1997, BY WATER YEAR (WY)

MEAN	228	283	302	292	315	360	379	1087	1672	425	169	185
MAX	1031	1055	1037	982	715	880	1293	4185	6356	2372	695	1597
(WY)	1984	1984	1984	1984	1984	1916	1952	1952	1922	1917	1921	1927
MIN	4.81	32.6	34.3	62.3	79.3	56.0	9.43	37.1	17.8	5.01	5.13	1.37
(WY)	1935	1991	1971	1991	1990	1990	1961	1994	1934	1961	1940	1934

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1912 - 1997

ANNUAL TOTAL	70650	187174	474
ANNUAL MEAN	193	513	1318
HIGHEST ANNUAL MEAN			1922
LOWEST ANNUAL MEAN			52.0
HIGHEST DAILY MEAN	812	3080	9690
LOWEST DAILY MEAN	18	18	1.0
ANNUAL SEVEN-DAY MINIMUM	22	22	1.0
ANNUAL RUNOFF (AC-FT)	140100	371300	343600
10 PERCENT EXCEEDS	345	1110	1010
50 PERCENT EXCEEDS	197	343	284
90 PERCENT EXCEEDS	32	74	33

e Estimated

GREEN RIVER BASIN

09296800 UINTA RIVER BELOW POWERPLANT DIVERSION, NEAR NEOLA, UT

LOCATION.--Lat 40°35'29", long 110°06'49", in NW¹/₄NW¹/₄NE¹/₄ sec. 9, T. 2 N., R. 2 W., Uintah Meridian, Duchesne County. Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 100 ft downstream from National Forest boundary, 4.7 mi upstream of Moon Lake Electric Association Inc. hydroelectric powerplant, and 11.5 mi northwest of Neola, Ut.

DRAINAGE AREA.--157 mi².

PERIOD OF RECORD.--October 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,330 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Moon Lake Electric powerplant canal diversion about 0.75 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, e3,000 ft³/s June 15, 1995; minimum daily discharge, 11 ft³/s Jan. 8, 19, 20, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1180 ft³/s June 2, gage height 6.96 ft; minimum daily discharge, 22 ft³/s Dec.18, 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	45	e34	e30	e25	e25	e36	62	905	263	188	195
2	58	44	e32	e30	e25	e25	e34	55	1000	245	180	224
3	61	45	e30	e30	e25	e26	e33	54	843	234	170	259
4	57	45	e25	e29	e26	e27	33	56	841	227	272	286
5	55	46	e26	e29	e26	e28	30	78	834	228	395	244
6	54	41	e26	e28	e26	e28	29	105	761	217	294	226
7	53	45	e26	e28	e27	e28	31	142	708	213	252	210
8	53	42	e26	e27	e28	27	30	163	788	239	228	207
9	52	42	e27	e27	e28	28	31	195	795	240	218	220
10	52	43	e28	e28	e28	27	30	249	802	238	237	261
11	51	42	e30	e28	e28	28	29	287	672	233	245	240
12	51	43	e32	e28	e29	28	29	324	566	238	306	258
13	50	43	e30	e28	e30	28	30	371	e510	222	295	222
14	52	42	e28	e29	e29	27	29	383	470	207	256	209
15	52	37	e26	e30	e28	27	28	498	419	200	233	258
16	51	40	e24	e32	e27	28	30	679	402	195	216	354
17	49	40	e23	e34	e27	28	37	799	410	205	209	274
18	50	45	e22	e35	e27	28	43	849	525	216	218	275
19	52	45	e22	e37	e27	31	48	748	620	232	206	429
20	46	42	e23	e39	e26	34	54	725	598	223	195	409
21	44	40	e23	e40	e26	37	63	600	546	223	209	440
22	43	57	e23	e40	e26	38	59	565	494	211	208	413
23	45	46	e24	e37	e26	41	52	536	434	221	212	386
24	43	42	e25	e34	e27	39	45	562	387	236	215	363
25	47	41	e26	e32	e26	33	41	471	355	204	191	326
26	44	37	e26	e30	e26	36	43	407	337	189	197	485
27	44	46	e27	e28	e26	40	50	367	325	180	212	427
28	47	52	e28	e27	e26	38	68	334	310	193	188	381
29	46	38	e29	e26	---	36	78	355	296	234	187	353
30	46	e38	e30	e26	---	36	66	476	283	195	179	328
31	46	---	e30	e26	---	37	---	646	---	193	184	---
TOTAL	1553	1294	831	952	751	967	1239	12141	17236	6794	6995	9162
MEAN	50.1	43.1	26.8	30.7	26.8	31.2	41.3	392	575	219	226	305
MAX	61	57	34	40	30	41	78	849	1000	263	395	485
MIN	43	37	22	26	25	25	28	54	283	180	170	195
AC-FT	3080	2570	1650	1890	1490	1920	2460	24080	34190	13480	13870	18170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1997, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997
MEAN	60.1	39.5	26.4	27.8	26.3	29.4	39.4
MAX	107	51.2	33.7	35.2	38.5	40.3	45.0
(WY)	1992	1996	1994	1991	1991	1995	1994
MIN	28.2	17.8	13.9	12.4	16.0	21.5	30.7
(WY)	1991	1991	1992	1992	1992	1992	1993

SUMMARY STATISTICS

	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1991 - 1997
ANNUAL TOTAL	35408	59915	143
ANNUAL MEAN	96.7	164	268
HIGHEST ANNUAL MEAN			80.5
LOWEST ANNUAL MEAN			11
HIGHEST DAILY MEAN	503	1000	3000
LOWEST DAILY MEAN	22	22	11
ANNUAL SEVEN-DAY MINIMUM	23	23	12
ANNUAL RUNOFF (AC-FT)	70230	118800	103500
10 PERCENT EXCEEDS	278	428	320
50 PERCENT EXCEEDS	46	48	45
90 PERCENT EXCEEDS	25	26	23

e Estimated

GREEN RIVER BASIN

81

09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UT

LOCATION.--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 right bank, 3.2 mi upstream from U.S. Forest Boundary, and 9.6 mi north-east of Whiterocks.

DRAINAGE AREA.--109 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. Elevation of gage is 7,160 ft above sea level, 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 poor. Flow slightly regulated by small mountain lakes.

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, site and datum then in use. Minimum discharge at present site and datum, 4.9 ft³/s Mar. 30, 1991.

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 17	2215	*952	*5.63	No other peaks greater than base discharge.			
Minimum daily discharge, 16 ft ³ /s Feb. 14.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	41	e24	e21	e21	e18	e36	94	713	175	131	127
2	58	41	e23	e21	e21	e18	34	87	712	167	132	e166
3	62	41	e23	e20	e20	e19	37	86	617	158	166	195
4	60	40	e22	e20	e20	e19	36	94	567	152	196	192
5	e57	43	e21	e19	e20	e19	34	128	530	154	243	167
6	54	32	e20	e19	e20	e20	30	166	477	168	201	155
7	52	e32	e20	e19	e19	e20	31	207	441	168	188	148
8	51	e32	e19	e19	e19	e20	34	237	455	163	182	147
9	51	e33	e19	e20	e19	e20	34	276	531	161	180	155
10	50	e33	e19	e21	e19	e21	33	327	555	167	191	153
11	49	e33	e19	e21	e18	e21	27	358	458	161	200	152
12	49	e33	e19	e20	e18	e21	26	403	388	160	217	148
13	49	e33	e19	20	e17	e22	30	421	365	155	192	141
14	49	e33	e19	e20	e16	e23	31	469	353	151	182	136
15	49	33	e19	e21	e17	24	30	594	327	147	167	179
16	48	34	e19	e22	e18	27	33	653	319	143	158	259
17	45	32	19	e23	e18	28	39	700	293	137	154	192
18	46	39	e19	e24	e18	29	44	750	316	136	164	197
19	49	37	e19	e24	e18	33	47	669	320	138	174	301
20	42	e38	e19	e24	e19	37	51	574	302	140	158	293
21	e42	e41	e20	e24	e18	40	59	488	293	149	151	301
22	43	46	e20	e24	e18	41	57	507	283	142	158	e307
23	45	40	e20	e24	e18	e44	57	478	260	143	165	313
24	42	35	e20	e23	e17	42	54	595	241	153	148	288
25	46	38	e20	e23	e17	37	51	508	224	142	141	256
26	43	30	e20	e23	e18	40	53	399	219	138	139	338
27	42	25	e21	e23	e18	e42	63	368	e206	134	143	315
28	44	e25	e22	e22	e19	e41	93	349	203	139	132	279
29	44	e25	e23	e22	---	39	105	363	198	148	129	258
30	43	e24	e22	e21	---	38	100	415	189	e134	125	242
31	42	---	e22	e21	---	e40	---	522	---	133	124	---
TOTAL	1505	1042	630	668	518	903	1389	12285	11355	4656	5131	6500
MEAN	48.5	34.7	20.3	21.5	18.5	29.1	46.3	396	379	150	166	217
MAX	62	46	24	24	21	44	105	750	713	175	243	338
MIN	42	24	19	19	16	18	26	86	189	133	124	127
AC-FT	2990	2070	1250	1320	1030	1790	2760	24370	22520	9240	10180	12890

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1930	66.9	155	1939	34.8	1989
1931	44.7	93.0	1939	28.6	1978
1932	34.4	58.7	1942	19.3	1991
1933	29.3	47.2	1930	17.7	1991
1934	26.9	37.8	1930	17.0	1977
1935	27.7	41.0	1986	17.8	1961
1936	48.5	118	1962	22.9	1975
1937	279	584	1937	74.8	1957
1938	393	1178	1983	50.1	1934
1939	181	573	1995	22.4	1934
1940	125	238	1984	41.7	1940
1941	93.4	217	1997	42.8	1933

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1930 - 1997

	1996 CALENDAR YEAR	1997 WATER YEAR	WATER YEARS 1930 - 1997
ANNUAL TOTAL	32571	46582	
ANNUAL MEAN	89.0	128	113
HIGHEST ANNUAL MEAN			209
LOWEST ANNUAL MEAN			42.0
HIGHEST DAILY MEAN	611	750	2300
LOWEST DAILY MEAN	19	16	14
ANNUAL SEVEN-DAY MINIMUM	19	17	15
ANNUAL RUNOFF (AC-FT)	64600	92400	81660
10 PERCENT EXCEEDS	216	331	248
50 PERCENT EXCEEDS	44	46	50
90 PERCENT EXCEEDS	22	19	25

e Estimated

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 above sea level. 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 where estimated, 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. Access to gaging station was denied in July, 1994, all subsequent data subject to revision.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 11,500 ft³/s June 20, 1983; maximum gage height, 10.22 ft June 5, 1986; minimum, 2.2 ft³/s Aug. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,380 ft³/s June 3, gage height, 9.06 ft; minimum discharge, 27.0 ft³/s July 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	70	149	318	e320	e290	e400	710	587	2790	169	198	434	
2	69	167	262	e310	e310	e380	929	542	4380	163	184	527	
3	68	168	253	e300	e320	e380	839	506	4730	278	158	859	
4	78	184	290	e290	e340	e400	559	457	3930	229	175	1020	
5	79	176	263	e280	e320	e430	529	e440	3830	192	1030	918	
6	74	171	e280	e290	e320	e470	504	e430	e3500	172	745	818	
7	81	168	281	e300	e300	e520	483	e420	e3400	164	371	801	
8	82	166	298	e310	e280	e560	470	411	e3300	150	305	851	
9	82	168	328	e300	e320	637	540	416	e3500	112	227	838	
10	76	171	339	e260	e310	680	711	515	e3600	86	258	811	
11	78	170	356	e270	e320	885	765	612	e3700	121	378	804	
12	81	170	426	e270	e310	1110	699	826	e3600	152	707	902	
13	81	169	359	e260	e330	1390	670	1180	3240	168	661	859	
14	81	199	265	e250	e350	1360	643	1240	2820	165	558	852	
15	78	271	212	e250	e370	1220	645	1290	2550	158	436	800	
16	65	272	e260	e260	e390	1260	615	1640	2020	116	365	841	
17	79	266	e250	e270	e400	1300	601	2150	1560	85	320	894	
18	100	264	e260	e280	e400	1290	610	2630	1480	90	316	811	
19	89	290	e290	e280	e400	1250	614	2790	1840	103	289	1460	
20	102	300	e290	e270	e400	1210	621	2700	2330	158	291	2220	
21	115	295	e280	e260	e390	1180	624	2740	2290	160	352	2450	
22	113	323	e260	e260	e370	1140	652	2690	2220	100	396	1890	
23	128	394	e280	e260	e350	1090	629	2700	1860	108	430	1750	
24	135	336	e290	e250	e340	1050	775	3040	1320	186	423	1720	
25	147	297	e300	e250	e370	930	833	3530	918	192	381	1500	
26	151	294	e300	e260	e390	837	726	3420	617	159	346	1650	
27	147	284	e310	e270	e440	780	670	2580	354	150	338	2670	
28	142	255	e320	e280	e460	750	657	1940	226	154	351	2250	
29	151	272	e330	e290	---	702	702	1510	184	202	467	1950	
30	163	288	e330	e290	---	672	673	1460	173	303	419	1780	
31	157	---	e330	e290	---	654	---	1760	---	215	394	---	
TOTAL	3142	7097	9210	8580	9890	26917	19698	49152	72262	4960	12269	37930	
MEAN	101	237	297	277	353	868	657	1586	2409	160	396	1264	
MAX	163	394	426	320	460	1390	929	3530	4730	303	1030	2670	
MIN	65	149	212	250	280	380	470	411	173	85	158	434	
AC-FT	6230	14080	18270	17020	19620	53390	39070	97490	143300	9840	24340	75230	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1997, BY WATER YEAR (WY)													
MEAN	291	373	404	396	435	491	416	1008	1887	505	208	215	
MAX	1530	1443	1353	1246	964	1203	1865	4938	7988	3177	926	1264	
(WY)	1984	1984	1984	1984	1984	1983	1952	1952	1983	1995	1965	1997	
MIN	52.9	42.6	39.6	43.3	52.6	86.4	28.5	47.5	50.0	10.1	9.91	18.9	
(WY)	1990	1990	1990	1990	1990	1995	1961	1961	1961	1961	1961	1960	
SUMMARY STATISTICS													
			FOR 1996 CALENDAR YEAR				FOR 1997 WATER YEAR				WATER YEARS 1943 - 1997		
ANNUAL TOTAL				102222				261107					
ANNUAL MEAN				279				715					
HIGHEST ANNUAL MEAN												551	
LOWEST ANNUAL MEAN												1736	
												76.4	
HIGHEST DAILY MEAN				1010				4730				Jun 20 1983	
LOWEST DAILY MEAN				56				65				3.2	
				63				74				4.2	
ANNUAL SEVEN-DAY MINIMUM				Aug 31				Oct 1				Aug 9 1961	
ANNUAL RUNOFF (AC-FT)				202800				517900				399400	
10 PERCENT EXCEEDS				478				1910				1120	
50 PERCENT EXCEEDS				275				351				331	
90 PERCENT EXCEEDS				75				148				58	

e Estimated

GREEN RIVER BASIN
09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1950 to September 1951, November 1956 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1950 to September 1951, November 1956 to September 1980, June 1981 to current year.

WATER TEMPERATURES: December 1950 to September 1951, November 1956 to September 1978, October 1979 to September 1980, June 1981 to current year.

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 several days during 1982, 1989, 1991, 1992, 1994, 1995; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,180 microsiemens Oct. 18; minimum daily, 340 microsiemens, June 6.

WATER TEMPERATURES: Maximum, 26.0°C July 20; minimum, 0.0°C many days during winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)
OCT 16...	1245	61	1870	8.4	14.0	12.0	8.8	99	636	540	110
DEC 06...	1245	283	1340	8.5	7.0	0.0	11.8	98	634	440	94
MAR 07...	1430	515	830	8.2	9.0	1.0	11.8	99	641	280	61
APR 16...	1200	606	930	8.4	15.0	10.0	8.4	88	645	330	68
MAY 20...	1200	2490	330	8.8	19.5	15.0	8.1	84	731	120	29
JUN 25...	1330	800	470	8.2	21.0	17.5	8.1	101	642	160	35
AUG 05...	1600	1100	1190	8.0	32.5	22.0	--	--	--	360	87

DATE	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)
OCT 16...	66	211	46	4	3.5	610	89	0.77	11	1360	1280
DEC 06...	50	110	35	2	2.3	330	41	0.50	11	806	801
MAR 07...	32	61	32	2	1.7	180	28	0.30	9.0	504	500
APR 16...	38	73	33	2	2.4	210	32	0.41	8.5	578	575
MAY 20...	12	19	25	0.8	1.4	54	9.3	0.15	7.0	208	194
JUN 25...	17	35	32	1	1.4	93	14	0.23	7.3	288	275
AUG 05...	36	109	39	2	7.7	370	48	0.58	13	827	775

GREEN RIVER BASIN
09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)
OCT 16...	1.84	223	--	--	0.013	0.04	<0.050	0.049	0.06	<0.010	--
DEC 06...	1.10	616	--	--	<0.010	--	0.190	0.020	0.03	<0.010	--
MAR 07...	0.69	701	0.100	0.44	0.010	0.03	0.110	0.020	0.03	<0.010	--
APR 16...	0.79	946	--	--	<0.010	--	<0.050	0.044	0.06	<0.010	--
MAY 20...	0.28	1400	--	--	<0.010	--	0.059	<0.015	--	<0.010	--
JUN 25...	0.39	622	--	--	<0.010	--	0.051	<0.015	--	0.014	0.04
AUG 05...	1.12	2460	0.630	2.8	0.027	0.09	0.657	<0.015	--	0.019	0.06

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B) (01020)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT 16...	1245	923	<1
DEC 06...	1245	495	<1
MAR 07...	1430	290	<1
APR 16...	1200	337	<1
MAY 20...	1200	100	<1
JUN 25...	1330	180	<1
AUG 05...	1600	535	2

09302000 DUCHESNE RIVER NEAR RANDETT, UT--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1820	1870	1130	820	820	920	870	760	830	1090	1100	1180
2	1940	1880	1160	840	810	840	1160	750	880	1030	1110	1190
3	1970	1790	1100	940	840	880	1160	770	860	1110	1090	1180
4	1910	1810	1220	950	840	820	1160	830	980	1110	1070	960
5	1870	1800	1200	950	830	840	980	880	350	1060	1080	960
6	1930	1720	1170	920	830	810	890	870	340	1150	980	910
7	1900	1740	1070	950	960	840	970	860	350	1210	1110	920
8	1800	1710	940	1030	800	830	940	890	760	1120	1100	890
9	2010	1700	1020	950	880	1140	1200	790	830	1170	1170	920
10	2070	1660	950	790	800	1140	1200	790	590	1230	1170	780
11	2090	1660	1010	780	770	920	1220	730	630	1240	960	950
12	2110	1330	1010	780	710	940	1150	770	480	1210	1070	880
13	1980	1320	1000	1040	700	940	1000	600	480	1160	1080	780
14	2010	1320	900	1040	840	1060	990	560	480	1140	1040	770
15	1940	1180	1160	1240	840	1070	960	560	480	1140	1080	740
16	2100	1160	1220	1240	790	1030	910	560	490	1150	970	830
17	2060	1070	1120	1130	790	850	920	500	490	1280	910	810
18	2180	1130	990	1130	740	860	850	405	430	1430	910	820
19	1930	1120	1060	840	630	840	840	345	440	1410	1100	820
20	1970	1070	1160	780	950	830	810	425	360	1380	920	820
21	1960	1000	900	840	860	830	820	425	380	1350	930	640
22	1850	1130	830	830	890	810	780	435	380	1350	930	640
23	1950	1230	770	810	770	790	780	450	370	1140	870	640
24	1910	1190	780	900	840	780	970	445	490	1410	830	640
25	1980	1130	840	780	860	820	950	600	500	1400	880	640
26	1970	1160	850	790	850	840	790	610	690	1370	880	570
27	1920	1210	740	770	840	850	800	620	690	1360	930	560
28	1910	1140	770	780	920	850	800	580	890	1150	950	530
29	1980	1200	790	780	---	880	760	620	1000	1140	950	540
30	1920	1170	820	790	---	880	770	570	1030	1140	910	540
31	1910	---	770	800	---	870	---	495	---	---	---	---
MEAN	1960	1390	982	904	821	890	947	629	598	1220	1000	802

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	10.0	5.0	.0	.0	.0	3.0	---	24.0	19.0	---	---
2	15.0	10.0	5.0	.0	.0	.0	9.0	---	24.0	19.0	---	---
3	15.0	8.0	5.0	.0	.0	.0	9.0	---	24.0	21.0	23.0	---
4	17.0	9.0	5.0	.0	.0	.0	9.0	---	19.0	21.0	23.0	---
5	17.0	9.0	.0	.0	.0	.0	5.0	---	15.0	19.0	23.0	---
6	18.0	6.0	.0	.0	.0	.0	5.0	---	18.0	20.0	---	---
7	17.0	6.0	.0	.0	.0	.0	5.0	15.0	18.0	20.0	---	---
8	15.0	7.0	.0	.0	.0	.0	8.0	15.0	21.0	21.0	---	---
9	17.0	6.0	.0	.0	.0	.0	.0	21.0	21.0	21.0	---	---
10	17.0	9.0	.0	.0	.0	.0	.0	21.0	19.0	22.0	---	---
11	13.0	9.0	.0	.0	.0	.0	.0	21.0	19.0	21.0	---	---
12	13.0	5.0	.0	.0	.0	.0	.0	21.0	17.0	20.0	---	---
13	13.0	6.0	.0	.0	.0	.0	5.0	17.0	17.0	25.0	---	---
14	13.0	4.0	.0	.0	.0	.0	5.0	18.0	21.0	24.0	---	---
15	11.0	2.0	.0	.0	.0	.0	11.0	16.0	21.0	22.0	---	---
16	11.0	2.0	.0	.0	.0	.0	11.0	16.0	21.0	22.0	---	---
17	11.0	6.0	.0	.0	.0	6.0	10.0	21.0	22.0	21.0	---	---
18	5.0	8.0	.0	.0	.0	7.0	14.0	17.0	24.0	25.0	---	---
19	6.0	1.0	.0	.0	.0	7.0	12.0	15.0	25.0	21.0	---	---
20	6.0	6.0	.0	.0	.0	7.0	12.0	15.0	22.0	26.0	---	---
21	5.0	6.0	.0	.0	.0	7.0	9.0	15.0	20.0	22.0	---	---
22	10.0	10.0	.0	.0	.0	9.0	9.0	14.0	21.0	22.0	---	---
23	10.0	10.0	.0	.0	.0	9.0	9.0	14.0	21.0	22.0	---	---
24	6.0	10.0	.0	.0	.0	7.0	11.0	14.0	23.0	24.0	---	---
25	8.0	5.0	.0	.0	.0	7.0	11.0	14.0	23.0	---	---	---
26	9.0	5.0	.0	.0	.0	7.0	14.0	17.0	22.0	---	---	---
27	9.0	4.0	.0	.0	.0	7.0	14.0	17.0	22.0	---	---	---
28	9.0	4.0	.0	.0	.0	7.0	12.0	18.0	20.0	---	---	---
29	9.0	4.0	.0	.0	---	5.0	9.0	19.0	20.0	---	---	---
30	9.0	5.0	.0	.0	---	5.0	9.0	22.0	20.0	---	---	---
31	9.0	---	.0	.0	---	5.0	---	22.0	---	---	---	---
MEAN	11.5	6.4	.6	.0	.0	3.3	8.0	17.4	20.8	21.7	23.0	---

GREEN RIVER BASIN

09306500 WHITE RIVER NEAR WATSON, UTAH

LOCATION.--Lat 39°58'44", long 109°10'41" , in SE¹/₄SW¹/₄NE¹/₄ sec. 2, T. 10 S., R. 24 E., Uintah County, Hydrologic Unit 14050007, on left bank 350 ft downstream from bridge on State Highway 45, 1 mi downstream from Evacuation Creek, and 7 mi north of Watson.

DRAINAGE AREA.--4,020 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1904 to October 1906 (no winter records), May to November 1918, April 1923 to September, 1979, October 1985 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "near Dragon" 1906 and "near Rangely, Colo." 1904, 1905, 1918.

GAGE.--Water-stage recorder. Datum of gage is 4,946.78 ft above sea level. See WSP 1733 for history of changes prior to Oct. 27, 1959.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of about 31,900 acres above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 8,160 ft³/s July 15, 1929; maximum gage height, 13.1 ft Feb. 11, 1962, from floodmark in well (backwater from ice); minimum, 11 ft³/s Dec. 6, 1972, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 04	2000	*4,020	*6.38	Sep 20	1400	3750	6.13

Minimum daily discharge, 183 ft³/s Dec. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	508	561	470	523	e440	e440	522	1180	2670	1470	743	687
2	494	550	458	519	e440	e440	552	1160	3000	1370	768	660
3	487	540	433	533	e450	e420	577	1140	3530	1280	715	652
4	518	532	327	600	e460	e400	567	1040	3890	1210	704	697
5	523	569	353	665	e470	e420	603	991	3790	1170	705	649
6	499	600	413	531	e360	e460	650	1040	3700	1150	815	627
7	480	581	505	361	e340	e500	655	1250	3710	1130	876	605
8	466	514	495	397	e300	538	630	1610	3610	1070	761	617
9	460	487	495	323	e320	673	637	1930	3460	1030	706	627
10	455	520	489	446	e330	1180	666	1980	3260	993	679	670
11	453	524	539	518	e330	1770	725	2030	3120	924	891	736
12	449	509	594	282	e340	1760	702	2070	3240	834	1360	610
13	440	498	567	e250	e360	1720	656	2230	3170	830	1280	596
14	448	499	557	e230	e420	1490	637	2280	3020	855	1150	665
15	451	508	520	e220	e440	1010	609	2290	2890	841	1020	633
16	449	535	476	e240	e440	863	619	2250	2700	804	913	599
17	464	549	331	e260	e440	779	605	2390	2570	775	857	618
18	481	511	236	e280	e440	824	607	2630	2460	755	816	825
19	476	515	219	e320	e440	812	626	2750	2440	774	795	1510
20	536	590	183	e360	e440	727	670	2870	2570	871	788	2650
21	561	569	320	e360	e420	674	783	2890	2760	873	778	2760
22	533	573	402	e380	e440	758	895	2820	2760	808	762	3120
23	493	600	553	e380	e420	721	949	3010	2620	744	748	2800
24	497	653	551	e360	e400	650	908	3020	2550	762	733	1800
25	535	662	514	e380	e380	629	870	2880	2390	915	722	1470
26	511	574	467	e400	e420	622	845	2890	2140	837	720	1310
27	608	538	482	e440	e440	583	803	2700	1930	746	753	1230
28	572	520	539	e500	e460	536	806	2290	1780	733	753	1280
29	563	465	528	e490	---	538	883	2040	1700	732	705	1230
30	566	456	520	e470	---	539	1110	2020	1580	745	717	1120
31	574	---	513	e460	---	538	---	2510	---	755	713	---
TOTAL	15550	16302	14049	12478	11380	24014	21367	66181	85010	28786	25446	34053
MEAN	502	543	453	403	406	775	712	2135	2834	929	821	1135
MAX	608	662	594	665	470	1770	1110	3020	3890	1470	1360	3120
MIN	440	456	183	220	300	400	522	991	1580	732	679	596
AC-FT	30840	32340	27870	24750	22570	47630	42380	131300	168600	57100	50470	67540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1997, BY WATER YEAR (WY)

	MEAN	464	426	361	354	426	581	706	1593	1831	730	479	443
MAX	1029	713	600	580	1414	1180	2466	3537	4018	2923	1915	1917	
(WY)	1930	1930	1926	1926	1986	1939	1929	1929	1929	1929	1929	1929	
MIN	243	279	176	160	246	336	368	384	227	109	142	208	
(WY)	1964	1995	1995	1937	1949	1952	1961	1977	1934	1934	1994	1955	

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1924 - 1997

ANNUAL TOTAL	268801	354616	700
ANNUAL MEAN	734	972	1736
HIGHEST ANNUAL MEAN			1929
LOWEST ANNUAL MEAN			308
HIGHEST DAILY MEAN	3190	May 19	3890
LOWEST DAILY MEAN	183	Dec 20	183
ANNUAL SEVEN-DAY MINIMUM	255	Sep 1	252
ANNUAL RUNOFF (AC-FT)	533200	703400	507100
10 PERCENT EXCEEDS	1750	2530	1590
50 PERCENT EXCEEDS	511	633	445
90 PERCENT EXCEEDS	351	401	286

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1950 to September 1979, October 1985 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1950 to September 1979, October 1986 to September 1993.

WATER TEMPERATURES: December 1950 to September 1979, October 1986 to September 1993.

SUSPENDED-SEDIMENT DISCHARGE: October 1976 to June 1979, October 1985 to September 1990.

INSTRUMENTATION.--Water-quality monitor November 1985 to September 1993.

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, 4,450 microsiemens Aug. 4, 1955; minimum recorded, 136 microsiemens May 20, 1989.

WATER TEMPERATURES: Maximum recorded, 33.0°C July 15, 1977; minimum, 0.0°C many days during winter period.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 31,100 mg/L Aug. 8, 1987; minimum daily mean, 31 mg/L Sept. 7, 8, 1989.

SEDIMENT LOADS: Maximum daily, 121,000 tons Aug. 8, 1987; minimum daily, 12 tons Sept. 7, 8, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)
OCT 16...	0930	410	680	8.5	9.5	10.5	9.0	98	630	250
DEC 05...	1530	364	730	8.6	-1.0	0.5	11.3	97	621	290
DATE		CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)
OCT 16...	60	24	42	27	1	1.5	170	11	0.29	12
DEC 05...	70	29	57	30	1	1.7	200	15	0.30	13
DATE		SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT 16...	452	431		0.61	500	<0.010	<0.050	0.041	0.05	<0.010
DEC 05...	512	505		0.70	503	<0.010	0.110	0.020	0.03	<0.010
DATE	TIME					BORON, DIS-SOLVED (UG/L AS B) (01020)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)			
OCT 16...	0930					69	<1			
DEC 05...	1530					69	1			

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. Elevation of gage is 8,660 ft above sea level, from topographic map.

REMARKS.--Records poor. 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, 66 ft³/s June 17, 1993, gage height, 2.46 ft; no flow many days each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e.00	e.00	e3.5	12	e11	6.9
2	---	---	---	---	---	---	e.00	e.00	e4.0	17	e11	7.1
3	---	---	---	---	---	---	e.00	e.00	e4.2	15	e11	7.7
4	---	---	---	---	---	---	e.00	e.00	e4.0	13	e16	6.9
5	---	---	---	---	---	---	e.00	e.00	e3.8	17	e15	6.1
6	---	---	---	---	---	---	e.00	e.00	e3.4	18	e14	6.4
7	---	---	---	---	---	---	e.00	e.00	e3.0	18	e13	4.7
8	---	---	---	---	---	---	e.00	e.00	e2.0	18	12	3.8
9	---	---	---	---	---	---	e.00	e.00	e2.5	18	13	6.0
10	---	---	---	---	---	---	e.00	e.00	e3.0	e17	14	5.6
11	---	---	---	---	---	---	e.00	e.00	e3.0	e16	12	6.0
12	---	---	---	---	---	---	e.00	e.00	e2.1	e16	10	6.1
13	---	---	---	---	---	---	e.00	e.00	e1.5	e15	9.1	6.1
14	---	---	---	---	---	---	e.00	e.00	e1.7	e14	8.5	5.8
15	---	---	---	---	---	---	e.00	e.30	e1.7	e14	8.4	5.4
16	---	---	---	---	---	---	e.00	e.80	e1.8	e13	8.2	5.2
17	---	---	---	---	---	---	e.00	e1.8	e2.0	e13	8.2	2.9
18	---	---	---	---	---	---	e.00	e2.8	e2.0	e13	8.2	3.3
19	---	---	---	---	---	---	e.00	e2.0	e2.0	e12	8.2	2.7
20	---	---	---	---	---	---	e.00	e1.7	e1.9	e12	8.3	e1.5
21	---	---	---	---	---	---	e.00	e1.5	e2.2	e11	8.5	e1.4
22	---	---	---	---	---	---	e.00	e1.3	e2.4	e11	8.3	e1.2
23	---	---	---	---	---	---	e.00	e1.2	e2.0	e15	8.2	e1.4
24	---	---	---	---	---	---	e.00	e2.0	e2.5	e14	8.1	e1.4
25	---	---	---	---	---	---	e.00	e1.9	4.5	e13	7.8	e1.4
26	---	---	---	---	---	---	e.00	e1.9	8.4	e12	7.7	e1.9
27	---	---	---	---	---	---	e.00	e1.9	10	e12	7.6	e1.5
28	---	---	---	---	---	---	e.00	e2.1	8.2	e14	6.3	e1.3
29	---	---	---	---	---	---	e.00	e2.2	11	e13	7.9	e1.3
30	---	---	---	---	---	---	e.00	e2.2	12	e12	8.3	e1.2
31	---	---	---	---	---	---	---	e2.5	---	e12	8.2	---
TOTAL	---	---	---	---	---	---	0.00	30.10	116.3	440	306.0	120.2
MEAN	---	---	---	---	---	---	.000	.97	3.88	14.2	9.87	4.01
MAX	---	---	---	---	---	---	.00	2.8	12	18	16	7.7
MIN	---	---	---	---	---	---	.00	.00	1.5	11	6.3	1.2
AC-FT	---	---	---	---	---	---	.00	60	231	873	607	238

e Estimated

GREEN RIVER BASIN

89

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. Elevation of gage is 8,400 ft above sea level, from topographic map. October 1930 to September 1931, at different datum, May 1940 to September 1954, at datum 0.50 ft higher.

REMARKS.--Records fair 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 419 ft³/s, May 22, 1984; maximum gage height, 3.37 ft May 27, 1986; no flow Nov. 11, 1964, Sept. 23-26, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum estimated daily discharge, 365 ft³/s, May 17; minimum daily discharge, 3.1 ft³/s several days in Oct.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2	3.1	4.2	4.6	4.0	4.3	4.5	8.8	e58	188	19	7.5	4.9
3	3.2	4.1	e4.6	e4.0	4.6	4.4	9.4	e56	194	19	7.2	5.3
4	3.2	4.3	e4.7	e4.2	4.3	e4.3	7.4	e45	187	18	7.1	7.7
5	3.4	4.2	4.4	e4.0	4.2	4.2	7.6	e48	178	18	9.4	5.9
6	3.4	4.7	e4.4	e3.9	4.5	4.2	e7.8	e90	165	18	12	4.6
7	3.2	4.1	e4.3	e3.8	4.3	4.2	e7.9	e120	148	18	7.8	4.3
8	3.2	3.9	4.3	e3.8	e4.4	4.2	e7.8	e160	130	17	6.4	4.8
9	3.2	3.9	4.3	e4.0	4.5	4.3	7.7	e180	91	16	5.7	5.1
10	3.2	3.9	4.4	e4.1	e4.5	4.1	6.8	e210	77	16	6.1	5.3
11	3.3	3.8	e4.4	e4.2	4.9	4.5	6.6	e260	70	16	8.1	5.4
12	3.2	3.9	e4.4	e4.1	4.7	4.7	e6.5	e310	63	14	6.4	5.6
13	3.1	3.9	4.6	e4.0	4.5	4.5	e6.4	e310	58	13	6.7	6.1
14	3.3	3.9	4.4	e4.0	4.2	e4.4	e6.3	e320	56	12	7.2	5.4
15	3.1	4.0	e4.4	e3.9	4.4	e4.5	6.2	e350	59	12	5.8	5.5
16	3.3	3.9	e4.5	e3.8	4.5	4.5	7.3	e340	55	11	5.2	6.3
17	3.1	4.1	4.5	e3.7	4.4	4.5	7.9	e350	52	10	4.8	6.8
18	3.2	4.5	e4.4	e3.9	4.4	4.6	8.6	e365	51	10	4.6	5.6
19	3.7	5.5	e4.3	4.2	4.3	5.9	12	e355	49	10	4.7	14
20	3.8	5.3	4.2	4.2	e4.4	5.7	17	e330	45	10	4.5	18
21	4.0	5.0	4.2	4.4	4.4	6.5	24	e290	42	9.8	4.5	9.0
22	3.6	4.9	4.2	e4.4	4.3	6.0	33	e270	39	9.3	5.0	7.0
23	3.5	14	e4.2	4.4	4.5	6.3	35	e240	34	9.4	4.7	6.1
24	3.7	10	e4.1	e4.5	4.3	6.9	34	e210	33	10	4.4	5.5
25	4.4	6.9	4.1	e4.4	4.2	e7.0	27	201	31	9.5	4.4	5.3
26	5.4	5.9	4.1	e4.3	4.3	e7.2	23	179	26	8.4	4.2	5.3
27	4.7	5.2	e4.1	e4.6	4.5	e7.4	e23	166	25	8.0	4.1	6.7
28	4.2	5.3	e4.0	e4.6	e4.4	7.5	e32	142	24	8.1	4.0	6.7
29	4.4	4.7	e4.0	e4.6	e4.5	9.1	e50	137	22	10	4.0	5.5
30	4.7	5.2	4.0	4.6	---	e9.0	e80	138	21	10	4.0	5.3
31	4.4	4.5	3.9	4.4	---	e8.9	e68	146	21	8.2	3.8	5.0
32	4.5	---	4.0	4.4	---	8.7	---	165	---	7.7	4.4	---
TOTAL	113.7	151.7	133.0	129.4	123.7	176.7	585.0	6541	2234	385.4	178.7	194.0
MEAN	3.67	5.06	4.29	4.17	4.42	5.70	19.5	211	74.5	12.4	5.76	6.47
MAX	5.4	14	4.7	4.6	4.9	9.1	80	365	194	19	12	18
MIN	3.1	3.8	3.9	3.7	4.2	4.1	6.2	45	21	7.7	3.8	4.3
AC-FT	226	301	264	257	245	350	1160	12970	4430	764	354	385

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1941	4.88	13.5	1983	.65	1979
1942	4.56	11.6	1983	1.92	1991
1943	3.82	9.00	1942	1.81	1960
1944	3.47	7.83	1984	1.40	1960
1945	3.43	7.37	1984	1.40	1960
1946	4.26	10.6	1972	2.13	1963
1947	18.3	55.4	1942	3.37	1975
1948	102	239	1952	12.9	1977
1949	61.3	239	1983	9.35	1992
1950	13.9	47.9	1983	3.75	1977
1951	7.20	16.7	1965	1.96	1977
1952	5.02	14.1	1965	1.89	1977

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1941 - 1997

ANNUAL TOTAL	7277.0	10946.3	
ANNUAL MEAN	19.9	30.0	19.4
HIGHEST ANNUAL MEAN			40.7
LOWEST ANNUAL MEAN			4.65
HIGHEST DAILY MEAN	280	365	419
LOWEST DAILY MEAN	2.1	3.1	.00
ANNUAL SEVEN-DAY MINIMUM	2.6	3.2	.06
ANNUAL RUNOFF (AC-FT)	14430	21710	14080
10 PERCENT EXCEEDS	59	78	50
50 PERCENT EXCEEDS	4.3	5.2	5.0
90 PERCENT EXCEEDS	2.8	3.9	2.6

e Estimated

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. WDR UT-88-1: 1987.

GAGE.--Water-stage recorder. Elevation of gage is 7,670 ft above sea level, 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 fair except for estimated daily discharges, which are poor. Small transmountain diversions in headwaters for irrigation in Sevier Lake basin.

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)	DateTime	Discharge (ft ³ /s)	Gage height (ft)	
Apr. 29	0307	280	2.55	May 17	2300	*842	*4.37
Minimum daily discharge, 8.2 ft ³ /s Jan. 16.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	14	e10	e9.0	e9.8	e12	e26	216	354	43	21	16
2	10	e13	e10	e9.0	e11	e12	e28	176	352	41	21	17
3	9.8	e12	e11	e9.4	e10	e11	e23	159	332	40	21	21
4	9.8	e12	e9.8	e9.0	e9.8	e11	e24	166	310	40	27	19
5	9.8	13	e9.8	e8.7	e10	e11	e25	232	284	39	33	16
6	9.8	e13	e9.8	e8.4	e10	e11	e26	295	256	38	25	15
7	9.8	e13	e9.6	e8.4	e11	e11	e25	363	230	37	21	15
8	9.8	e13	e9.6	e9.0	e11	e11	25	399	190	37	19	15
9	9.8	e13	e9.8	e9.2	e11	e10	25	436	172	35	18	15
10	9.8	e12	e9.8	e9.4	e12	e11	25	544	157	34	22	15
11	9.8	e13	e9.8	e9.2	e11	e13	24	633	144	32	20	16
12	9.8	e13	e10	e9.0	e11	e12	23	629	131	30	22	17
13	9.8	e13	e9.8	e9.0	e10	e12	23	665	129	29	22	16
14	9.8	e13	e9.8	e8.8	e11	e12	21	715	128	27	18	16
15	9.8	e13	e10	e8.6	e12	e12	22	708	120	26	17	16
16	9.8	e13	e10	e8.2	e12	e12	26	704	112	25	16	19
17	9.7	e14	e9.8	e8.6	e12	e12	35	738	108	25	15	16
18	10	e15	e9.6	e9.4	e11	e16	50	722	102	26	15	25
19	11	e14	e9.4	e9.4	e12	e15	70	663	96	26	15	47
20	11	e13	e9.4	e9.8	e12	e17	92	615	89	25	15	27
21	e10	e12	e9.4	e9.8	e11	e16	120	581	82	24	16	19
22	e9.8	e22	e9.4	e9.8	e12	e17	118	553	74	26	16	18
23	e11	e15	e9.2	e10	e11	e21	126	500	68	29	15	17
24	e12	e14	e9.2	e9.5	e12	e22	108	482	66	24	15	16
25	14	e13	e9.2	e9.4	e13	e23	96	428	59	23	17	15
26	e13	e12	e9.2	e11	e13	e24	96	384	54	22	15	19
27	e13	e12	e9.0	e11	e13	e25	117	345	52	22	14	20
28	15	e11	e9.0	e11	e13	e27	185	321	49	25	14	17
29	15	e12	e9.0	e11	---	e27	264	315	47	27	14	16
30	13	e10	e8.7	e10	---	e27	226	319	46	23	14	15
31	13	---	e9.0	e10	---	e26	---	333	---	22	15	---
TOTAL	337.5	395	297.1	292.0	317.6	499	2094	14339	4393	922	568	551
MEAN	10.9	13.2	9.58	9.42	11.3	16.1	69.8	463	146	29.7	18.3	18.4
MAX	15	22	11	11	13	27	264	738	354	43	33	47
MIN	9.7	10	8.7	8.2	9.8	10	21	159	46	22	14	15
AC-FT	669	783	589	579	630	990	4150	28440	8710	1830	1130	1090
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1997, BY WATER YEAR (WY)												
MEAN	11.5	11.3	9.73	8.89	9.36	13.2	61.6	269	141	30.3	14.9	11.2
MAX	26.7	28.8	19.3	20.3	21.2	42.7	167	681	731	99.6	37.5	27.0
(WY)	1983	1983	1985	1971	1994	1986	1988	1952	1983	1983	1983	1983
MIN	5.34	6.01	5.16	3.34	3.79	5.00	11.5	23.5	14.4	6.83	4.07	3.49
(WY)	1978	1965	1962	1979	1979	1964	1975	1977	1977	1977	1977	1977
SUMMARY STATISTICS			FOR 1996 CALENDAR YEAR				FOR 1997 WATER YEAR			WATER YEARS 1939 - 1997		
ANNUAL TOTAL				20104.7		25005.2		49.6				
ANNUAL MEAN				54.9		68.5		113				
HIGHEST ANNUAL MEAN								10.2				
LOWEST ANNUAL MEAN								1310				
HIGHEST DAILY MEAN				654		738		May 17		May 22 1984		
LOWEST DAILY MEAN				8.2		8.2		Jan 16		2.6 Jan 31 1979		
ANNUAL SEVEN-DAY MINIMUM				8.5		8.8		Jan 11		2.8 Jan 29 1979		
ANNUAL RUNOFF (AC-FT)				39880		49600				35910		
10 PERCENT EXCEEDS				185		220				127		
50 PERCENT EXCEEDS				13		15				13		
90 PERCENT EXCEEDS				9.4		9.6				7.0		

e Estimated

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 September 1986. October 1990 to current year. Formerly published as "Pleasant Valley Creek below Winter Quarters Canyon, at Scofield, UT."

GAGE.--Water-stage recorder. Altitude of gage is 7,720 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 389 ft³/s May 21, 1984, gage height, 3.30 ft; minimum, 1.4 ft³/s Sept. 8, 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)
May 19	2200	*171	*3.48	Sept. 13	1530	56	2.59
May 31	2200	117	3.16	Sept. 18	2130	44	2.44

Minimum daily discharge, 5.4 ft³/s Feb. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	6.8	e6.6	6.2	5.8	e6.2	11	45	109	14	8.0	9.4
2	7.7	7.8	e6.6	6.3	6.0	e6.4	11	40	103	14	8.2	11
3	7.5	7.7	e6.4	8.5	5.9	e6.4	11	38	94	13	7.8	13
4	8.0	7.4	e6.7	e8.1	6.3	e6.2	11	39	87	13	9.1	9.9
5	7.6	7.3	e7.0	e8.1	5.5	e6.5	11	43	80	12	8.1	8.2
6	7.5	e7.3	7.3	e7.7	e5.4	e6.5	e10	49	73	12	8.6	9.7
7	7.6	e7.3	e7.0	e7.5	e5.5	e7.3	e9.4	56	66	10	7.9	9.6
8	7.7	e7.3	e6.7	e8.0	e6.0	e7.6	9.1	59	61	10	7.6	8.6
9	7.6	7.3	6.4	e8.3	e6.7	e7.8	9.4	62	58	10	7.8	8.7
10	7.5	7.7	6.4	8.5	e7.4	e8.5	8.8	68	56	10	10	7.8
11	7.5	7.1	6.7	7.9	e8.0	e9.0	8.8	78	53	9.8	8.6	9.1
12	7.5	6.8	7.2	e7.2	e8.3	9.6	9.0	99	51	10	8.6	8.1
13	7.7	6.8	7.2	e7.2	8.0	e9.7	9.4	104	47	9.6	8.1	14
14	7.8	7.0	e7.4	e7.4	e7.4	e9.8	8.7	113	47	9.3	7.8	8.5
15	7.3	7.2	e7.6	e6.4	6.6	9.9	9.3	125	43	8.9	7.7	8.6
16	7.4	7.5	e8.0	e5.7	e6.2	11	11	135	41	9.3	7.9	8.4
17	6.8	e7.5	e7.6	e5.7	5.8	11	15	150	40	8.9	8.2	6.7
18	7.3	e7.6	e7.2	e6.2	6.6	e12	20	151	39	8.6	7.9	15
19	7.6	7.6	e7.4	e6.6	e6.2	14	25	153	37	9.7	8.2	11
20	7.6	7.8	e7.6	e6.6	e6.0	15	31	155	35	9.4	7.9	7.8
21	e7.2	7.9	e7.8	e6.4	e5.9	17	37	147	32	8.6	8.4	7.5
22	e6.7	13	e8.0	6.7	e6.1	17	37	141	29	9.5	7.9	6.4
23	6.9	8.9	e7.9	6.2	e6.3	18	38	137	27	11	8.6	6.0
24	7.3	8.9	e7.7	e6.4	e6.5	17	34	131	24	9.0	8.6	6.3
25	7.3	7.6	e8.2	6.6	e6.1	e14	30	111	23	8.0	8.1	6.7
26	7.5	7.0	8.5	6.7	e6.3	11	30	93	21	7.9	8.6	8.8
27	e7.4	e7.0	7.8	5.9	6.5	13	36	77	20	8.5	8.7	7.5
28	7.4	e6.8	6.7	e5.8	e6.4	13	46	71	19	11	8.6	8.1
29	7.1	7.1	6.4	5.8	---	13	53	75	18	9.1	9.4	6.9
30	7.3	e6.6	6.4	e5.9	---	12	46	89	15	8.2	9.9	6.5
31	7.1	---	6.4	6.0	---	12	---	104	---	8.2	13	---
TOTAL	230.1	227.6	222.8	212.5	179.7	337.4	635.9	2938	1448	310.5	263.8	263.8
MEAN	7.42	7.59	7.19	6.85	6.42	10.9	21.2	94.8	48.3	10.0	8.51	8.79
MAX	8.0	13	8.5	8.5	8.3	18	53	155	109	14	13	15
MIN	6.7	6.6	6.4	5.7	5.4	6.2	8.7	38	15	7.9	7.6	6.0
AC-FT	456	451	442	421	356	669	1260	5830	2870	616	523	523

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979-86, 1991-97, BY WATER YEAR (WY)

	1979	1980	1981	1982	1983	1984	1985	1986	1991	1992	1993	1994	1995	1996	1997
MEAN	7.16	6.46	5.73	5.47	5.74	8.02	17.7	61.3	52.2	13.5	8.08	8.05			
MAX	12.2	10.3	9.61	8.74	9.19	18.3	40.7	141	134	30.8	16.0	14.0			
(WY)	1985	1986	1985	1986	1984	1986	1985	1984	1983	1983	1984	1986			
MIN	2.73	3.35	2.80	1.95	3.00	4.27	9.00	9.19	6.34	3.43	2.91	2.03			
(WY)	1979	1980	1980	1980	1979	1979	1979	1992	1994	1981	1992	1979			

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1979-86, 1991-97
ANNUAL TOTAL	5548.4	7270.1	
ANNUAL MEAN	15.2	19.9	
HIGHEST ANNUAL MEAN			16.6
LOWEST ANNUAL MEAN			30.7
HIGHEST DAILY MEAN			5.52
LOWEST DAILY MEAN			1984
ANNUAL SEVEN-DAY MINIMUM			1981
ANNUAL RUNOFF (AC-FT)	11010	14420	300
10 PERCENT EXCEEDS	46	53	May 24 1984
50 PERCENT EXCEEDS	7.6	8.2	1.6
90 PERCENT EXCEEDS	6.0	6.4	1.6
			12060
			39
			7.6
			3.5

e Estimated

GREEN RIVER BASIN

09311000 SCOFIELD RESERVOIR NEAR SCOFIELD, UT

LOCATION.--Lat 39°47'15", long 111°07'30", 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 sea level (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.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 77,280 acre-ft June 12, 13, 1983; elevation, 7,621.8 ft; minimum observed, 280 acre-ft Oct. 3, 1945; elevation, 7,586.2 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 71,140 acre-ft June 7-9, elevation, 7,619.4 ft; minimum observed, 12,780 acre-ft Oct. 22, elevation, 7,594.9 ft.

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

7,594	11,180	7,614	56,165
7,605	33,603	7,616	61,610
7,610	45,726	7,620	72,930

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17120	16350	17600	19600	21770	22800	17270	27130	68390	66850	56820	51670
2	17120	16350	17790	19620	21980	22590	17310	27690	69300	66480	56550	51510
3	17120	16350	17790	19740	21980	22590	17540	28300	69870	66230	56020	51350
4	16930	16540	17790	19860	21980	22590	17690	28920	70280	65980	55750	51200
5	16930	16540	17980	19980	21770	22390	17830	29540	70680	65690	55480	51040
6	16930	16540	17980	20100	21770	22180	17960	30290	70910	65300	55480	50850
7	16930	16440	17980	20220	21980	21980	18120	31190	71140	64960	55210	50670
8	16930	16440	18180	20360	22180	21570	18280	32510	71140	64600	54950	50460
9	16730	16440	18180	20360	22390	21160	18390	33840	71140	64180	54950	50310
10	16730	16440	18280	20560	22390	20960	18510	35180	70420	63400	54680	50150
11	16730	16440	18320	20360	22450	20360	18630	36550	70220	63400	54680	49940
12	16540	16440	18370	19560	22510	19160	18750	37880	70130	62950	54520	49790
13	16540	16440	18410	18570	22570	19560	18870	39710	70680	62620	54360	49530
14	15580	16440	18470	19560	22610	18960	18940	41560	70510	62290	54250	49370
15	14810	16630	18510	17790	22690	18370	19060	43570	70450	62010	54200	49170
16	15960	16630	18570	16060	22740	17790	19220	45610	69620	61740	54040	49060
17	13700	16630	18730	15680	22800	17400	19380	47670	69420	61290	53880	48800
18	13700	16630	18870	16440	22860	17020	19580	49760	69300	60960	53720	48860
19	15770	16630	18770	16440	22900	17500	20040	51900	69420	60630	53620	48800
20	13890	16820	18770	18180	22960	17020	20500	53640	69300	60220	53460	48750
21	13140	16820	18960	17980	23000	17150	20940	55720	69070	59920	53350	48650
22	12780	17020	19020	17400	23070	17210	21430	57070	68840	59590	53190	48390
23	16350	17020	19100	17980	23150	17400	22040	58370	68790	59260	53110	48130
24	16350	17020	19160	16250	23210	17600	22650	59670	68590	58990	52980	47770
25	16350	17210	19220	17210	23210	17540	23070	60990	68390	58610	52880	47420
26	16350	17210	19300	18370	23210	17420	23480	62320	68270	58260	52740	47190
27	16350	17400	19360	17400	23000	17420	23900	63650	68100	57910	52610	46960
28	16350	17400	19420	21770	23000	17310	24570	64770	67820	57630	52510	46550
29	16350	17400	19500	21980	---	17270	25410	65670	67590	57360	52300	46140
30	16350	17600	19560	21770	---	17250	26440	66570	67250	57040	52030	45860
31	16350	---	19580	21770	---	17230	---	67480	---	56930	51800	---
MAX	17100	17600	19600	22000	23200	22800	26400	67500	71100	66900	56800	51700
MIN	12800	16400	17600	15700	21800	17000	17300	27100	67300	56900	51800	45900
(#)	7596.8	7597.5	7598.5	7599.6	7600.2	7597.3	7601.8	7618.2	7618.1	7614.3	7612.4	7610.1
(*)	-770	+1250	+1980	+2190	+1230	-5770	+9210	+41040	-230	-10320	-5,130	-5940

CAL YR 1996(*) -9970
WTR YR 1997(*) +28740

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

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

GREEN RIVER BASIN

93

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. Elevation of gage is 7,230 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 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 (ft)
Apr. 23	1800	226	*3.08	May 14	0830	406	3.94
Apr. 30	0730	*418	*3.99				

Minimum daily discharge, 3.5 ft³/s Feb. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	5.8	e4.7	e3.8	e4.0	e3.8	60	333	116	29	14	8.6
2	5.1	5.0	e4.7	e4.0	e4.1	e3.9	54	280	112	28	14	7.9
3	5.3	5.1	e4.5	e4.7	e4.0	e3.9	55	258	105	28	14	9.7
4	7.6	5.1	e4.7	e4.6	e4.2	e3.8	60	246	99	27	17	9.5
5	5.4	5.5	e4.9	e4.6	e3.7	e3.9	54	276	95	26	18	8.0
6	5.3	5.9	e5.1	e4.5	e3.5	e3.9	48	324	89	26	15	7.6
7	5.1	e5.9	e4.7	e4.4	e3.6	e4.0	47	358	84	25	15	8.0
8	4.9	e5.9	e4.3	e4.5	e4.0	e4.1	47	357	84	23	12	7.9
9	4.8	e5.9	e3.8	e4.6	e4.5	e4.2	48	367	88	23	11	7.3
10	5.0	e6.0	e3.8	e4.8	e4.8	e4.3	44	376	81	23	13	8.6
11	4.8	e5.6	e3.9	e4.5	e5.2	e4.4	39	377	72	22	11	9.0
12	4.8	5.3	e4.0	e4.2	e5.5	e4.5	35	382	66	22	13	8.5
13	4.8	5.2	e4.0	e4.2	e5.2	e4.7	34	385	66	22	12	6.9
14	4.9	4.8	e4.1	e4.3	e4.5	e4.9	34	377	64	20	11	7.3
15	5.2	e5.2	e4.2	e4.0	e4.0	e5.2	40	370	61	20	10	7.4
16	4.8	e5.4	e4.3	e3.8	e3.8	e9.0	57	348	57	19	9.6	8.4
17	4.8	e5.4	e4.1	e3.8	e3.7	e15	85	323	53	19	9.5	7.0
18	4.5	e5.4	e3.9	e4.0	e4.1	e20	112	292	50	19	9.9	14
19	5.0	e5.5	e4.1	e4.3	e4.0	e35	136	264	48	21	9.2	20
20	5.5	e5.6	e4.3	e4.3	e3.9	e59	155	243	45	19	8.8	13
21	5.5	e5.8	e4.4	e4.2	e3.8	e80	184	224	43	18	11	12
22	e5.5	e6.8	e4.5	e4.4	e3.9	e80	192	208	41	17	13	10
23	5.5	e6.0	e4.5	e4.1	e4.0	e85	213	189	39	18	8.9	9.5
24	5.0	e6.0	e4.4	e4.2	e4.1	e82	194	183	38	18	8.5	9.4
25	5.6	e5.5	e4.5	e4.3	e3.8	e74	173	174	36	16	8.0	9.1
26	5.9	e5.0	e4.6	e4.4	e3.9	e62	162	157	35	15	7.7	11
27	e5.9	e5.0	e4.4	e4.0	e4.0	e70	191	142	34	15	7.8	10
28	5.9	e4.8	e4.0	e4.0	e3.9	e70	270	133	32	16	7.5	9.4
29	5.9	e5.0	e3.9	e4.0	---	e70	337	128	32	18	7.6	8.9
30	5.9	e4.7	e3.9	e4.0	---	e64	334	126	30	15	7.2	8.7
31	5.9	---	e3.9	e4.1	---	e64	---	121	---	15	7.6	---
TOTAL	165.2	164.1	133.1	131.6	115.7	1002.5	3494	8321	1895	642	341.8	282.6
MEAN	5.33	5.47	4.29	4.25	4.13	32.3	116	268	63.2	20.7	11.0	9.42
MAX	7.6	6.8	5.1	4.8	5.5	85	337	385	116	29	18	20
MIN	4.5	4.7	3.8	3.8	3.5	3.8	34	121	30	15	7.2	6.9
AC-FT	328	325	264	261	229	1990	6930	16500	3760	1270	678	561
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1997, BY WATER YEAR (WY)												
MEAN	5.71	5.32	4.48	4.11	5.01	13.4	64.7	160	56.2	15.8	7.30	5.13
MAX	11.9	9.91	8.16	7.68	20.3	55.1	169	416	209	41.2	22.8	11.7
(WY)	1985	1983	1984	1984	1986	1986	1986	1984	1983	1983	1983	1980
MIN	1.60	2.06	1.46	.64	1.90	2.73	5.68	4.37	1.95	.48	.016	.12
(WY)	1978	1991	1977	1977	1969	1991	1977	1977	1977	1977	1977	1977
SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1968 - 1997												
ANNUAL TOTAL				10859.2			16688.6					
ANNUAL MEAN				29.7			45.7			29.1		
HIGHEST ANNUAL MEAN										61.9		
LOWEST ANNUAL MEAN										2.21		1983
HIGHEST DAILY MEAN				255	May 13		385	May 13		927	May 27	1983
LOWEST DAILY MEAN				2.8	Sep 3		3.5	Feb 6		.00	Aug 6	1977
ANNUAL SEVEN-DAY MINIMUM				3.0	Sep 1		3.9	Feb 1		.00	Aug 6	1977
ANNUAL RUNOFF (AC-FT)				21540			33100			21070		
10 PERCENT EXCEEDS				90			156			76		
50 PERCENT EXCEEDS				5.8			8.0			6.6		
90 PERCENT EXCEEDS				3.8			4.0			2.5		

e Estimated

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

e Estimated

GREEN RIVER BASIN
09314500 PRICE RIVER AT WOODSIDE, UT

95

WATER QUALITY RECORDS

PERIOD OF RECORD.--December 1946 to September 1949, February 1951 to September 1988, November 1991 to September 1997 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: February 1951 to September 30, 1978.

WATER TEMPERATURES: February 1951 to September 1959, November 1961 to September 1963, October 1964 to September 30, 1978.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 8,540 microsiemens Dec. 11, 1951; minimum daily, 814 microsiemens June. 1, 1952.

WATER TEMPERATURES: Maximum, 32.0°C July 10, 11, 1954 and Apr. 7, 1977; minimum, 0.0°C on many days during winter period each year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
NOV 22...	0930	67	3100	8.2	16.5	7.0	2
APR 08...	0920	225	1830	8.5	16.0	7.0	2
JUN 03...	1200	600	1530	8.4	22.5	19.0	2
AUG 14...	1130	350	1650	8.3	27.0	19.5	2
SEP 05...	1215	400	2040	8.2	25.0	20.0	2

09315000 GREEN RIVER AT GREEN RIVER, UT

LOCATION (REVISED).--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 1,400 ft upstream from railroad bridge, .9 mi southeast of town of Green River, 22.7 mi upstream from San Rafael River, at mile 117.6 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 above sea level. 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. May 8, 1947 to Sept. 7, 1994, water-stage recorder at site 900 ft downstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see station 09234400) since Nov. 1, 1962.

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 (*):

Dates	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 26	----	a28,500	-----	June 9	2230	*32,100	*14.08

(a) Peak is an estimated daily discharge.
Minimum discharge, 1,640 ft³/s Jan. 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2780	3240	4010	4380	e4300	4870	8550	12700	22900	12300	3620	3640
2	2800	3250	3810	4130	4360	4930	8530	e14200	24400	12000	3550	3700
3	2810	3230	3460	4220	4380	4920	8730	e15900	26300	11800	3630	4170
4	2850	3320	3450	4180	4580	4880	8770	e17200	28200	11100	3690	4050
5	2820	3460	3270	4290	e4400	4940	8730	e18200	29400	10400	3900	4200
6	2750	3500	3110	e4100	e4300	4930	8780	e16000	30300	9840	4210	4410
7	2800	3540	3140	e4000	e4300	4990	8630	e13900	30800	9430	4510	4480
8	2820	3690	3210	3920	e4400	5020	8680	e12700	31400	9150	4590	4180
9	2800	3910	3240	3880	e4500	4930	9220	14100	31900	8910	4260	4150
10	2800	3900	3360	3400	4650	5060	8930	16800	31400	8620	4190	4180
11	2780	3860	3450	e3400	4360	5270	8450	19700	31100	8410	3840	4210
12	2760	3750	3600	e3400	4200	5820	8620	21000	30300	8240	4010	4150
13	2710	3590	3740	3410	4360	7470	8490	21400	29300	8070	4960	4260
14	2680	3510	3970	2690	4600	e11000	e8800	22200	27800	7750	5130	4440
15	2670	3600	4180	2100	4600	e12000	e8400	22900	26800	7310	5020	4460
16	2630	3740	3960	1760	4640	11200	e8000	23200	25300	6890	4750	4450
17	2650	3860	3790	e2500	4640	10200	e7860	23500	23700	6460	4860	4510
18	2670	3910	3740	e3200	4630	8940	7760	23900	22300	6010	4720	4600
19	2650	3860	3080	e3500	4690	8410	7830	24500	22400	5450	4340	5740
20	2720	3830	2530	e3700	4790	8090	8090	25200	23400	5010	4140	6980
21	2750	3830	2270	e3700	4890	7710	8440	26000	23600	4510	3860	8870
22	2790	3930	2410	e3700	5090	8310	9150	26800	23600	4290	3610	8790
23	2910	4080	2840	e3800	5190	8120	9760	27200	24000	4320	3580	8740
24	2970	4050	3500	e3900	4940	8360	11400	27100	23500	4170	3530	11400
25	3000	4200	3780	e4000	5070	8760	12700	e27800	e20000	4180	3660	12900
26	3000	4320	3870	e4100	5020	8870	12600	e28500	e17800	3910	3850	11200
27	3050	4240	3880	e4000	4880	8770	12600	e27700	16600	3840	3740	9640
28	3280	4210	3900	e4000	4840	9140	12400	e26200	15000	3820	3630	9040
29	3290	4310	3970	e4100	---	9080	12300	25800	13500	3890	3590	8640
30	3240	4210	4240	e4200	---	8660	12200	24300	12600	3840	3620	7910
31	3220	---	4390	e4200	---	8480	---	22800	---	3640	3720	---
TOTAL	88450	113930	109150	113860	129600	232130	283400	669400	739600	217560	126310	186090
MEAN	2853	3798	3521	3673	4629	7488	9447	21590	24650	7018	4075	6203
MAX	3290	4320	4390	4380	5190	12000	12700	28500	31900	12300	5130	12900
MIN	2630	3230	2270	1760	4200	4870	7760	12700	12600	3640	3530	3640
AC-FT	175400	226000	216500	225800	257100	460400	562100	1328000	1467000	431500	250500	369100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 1997, BY WATER YEAR (WY)

	MEAN	3019	2893	2366	2330	2864	4644	7404	15540	18920	7959	3712	2862
MAX	7701	6490	5894	5739	7258	11430	18370	33940	46650	31630	11220	9960	
(WY)	1983	1987	1987	1985	1962	1910	1962	1952	1921	1907	1907	1909	
MIN	718	935	801	1000	1509	1617	2591	4212	2128	645	712	603	
(WY)	1935	1935	1909	1910	1935	1963	1963	1990	1934	1934	1934	1934	

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1906 - 1997

ANNUAL TOTAL	2244820	3009480	
ANNUAL MEAN	6133	8245	6215
HIGHEST ANNUAL MEAN			12280
LOWEST ANNUAL MEAN			1805
HIGHEST DAILY MEAN	24000	May 22	31900
LOWEST DAILY MEAN	2110	Sep 5	1760
ANNUAL SEVEN-DAY MINIMUM	2130	Sep 3	2670
ANNUAL RUNOFF (AC-FT)	4453000	5969000	4502000
10 PERCENT EXCEEDS	15000	23000	15200
50 PERCENT EXCEEDS	3900	4500	3460
90 PERCENT EXCEEDS	2470	3100	1540

e Estimated

GREEN RIVER BASIN
09315000 GREEN RIVER AT GREEN RIVER, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Daily samples collected at gage site.

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.

INSTRUMENTATION.--Water-quality monitor April 1985 to September 1989.

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, 970 microsiemens Dec. 23, 24; minimum observed, 340 microsiemens June 10, 11.

WATER TEMPERATURES: Maximum observed, 27.0°C July 27; minimum, 0.0°C many days during winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)
NOV 26...	1145	4050	850	8.5	10.0	7.0	230	10.1	97	655	--	260
FEB 21...	1100	4950	800	8.5	1.0	1.0	23	11.8	97	657	--	260
MAR 18...	1115	9000	740	8.3	7.5	6.5	1400	10.1	96	655	0.70	210
APR 29...	1100	12400	600	8.3	16.0	13.0	150	8.9	99	655	--	220
MAY 19...	1045	23500	385	8.2	22.0	17.5	190	8.0	98	655	0.38	130
27...	1210	27700	385	8.2	15.0	16.0	180	8.3	97	660	--	130
JUN 09...	1030	32000	350	8.2	21.0	19.5	120	7.6	96	660	--	120
24...	1400	23600	395	8.3	23.0	22.0	95	7.5	100	660	--	130
JUL 08...	1030	9200	480	8.5	24.0	22.5	32	7.2	97	660	--	160
21...	1700	4710	560	8.5	26.0	23.0	22	6.9	95	650	--	180
AUG 20...	1310	4200	700	8.5	28.5	22.0	290	6.6	88	655	0.34	230
(a)20...	1320	4200	700	8.5	28.5	22.0	330	6.6	88	655	--	230
SEP 22...	1145	8930	720	8.3	14.0	17.0	4900	7.0	85	652	--	200
DATE		HARD-NESS NONCARB DISSOLV FLD. AS CaCO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM AD-SORP-TION RATIO (00932)	SODIUM POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl) (00940)
NOV 26...	90	61	27	75	38	2	2.8	8	196	174	230	22
FEB 21...	110	61	27	63	34	2	2.2	7	168	150	210	20
MAR 18...	71	51	20	65	40	2	2.9	0	170	140	200	17
APR 29...	84	53	22	42	29	1	2.4	0	167	137	150	13
MAY 19...	33	32	13	22	26	0.8	1.4	0	122	100	75	6.4
27...	28	31	12	21	26	0.8	1.4	0	122	100	77	6.8
JUN 09...	26	30	11	21	27	0.8	1.6	0	115	94	64	7.1
24...	33	33	12	24	28	0.9	1.7	0	120	98	86	7.8
JUL 08...	50	39	14	32	31	1	1.7	4	121	106	100	9.8
21...	58	43	17	41	33	1	2.0	5	137	120	140	14
AUG 20...	70	54	23	52	33	2	2.7	4	188	160	180	17
(a)20...	70	54	23	52	33	2	2.6	4	188	160	180	16
SEP 22...	54	50	17	72	44	2	2.9	0	176	144	190	18

(a) Concurrent replicate

GREEN RIVER BASIN

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	FLUORIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
NOV 26...	0.40	5.5	560	530	0.76	6120	--	--	<0.010	--	0.130	<0.015
FEB 21...	0.30	5.6	515	480	0.70	6880	0.130	0.58	0.030	0.10	0.160	<0.015
MAR 18...	0.30	6.8	476	449	0.65	11600	0.390	1.7	0.010	0.03	0.400	0.030
APR 29...	0.23	8.5	387	371	0.53	13000	--	--	<0.010	--	0.256	<0.015
MAY 19...	0.21	8.8	251	219	0.34	15900	0.117	0.52	0.015	0.05	0.132	<0.015
27...	0.20	8.3	240	218	0.33	17900	--	--	<0.010	--	0.110	<0.015
JUN 09...	0.20	8.6	216	201	0.29	18700	--	--	<0.010	--	0.068	<0.015
24...	0.19	7.3	257	232	0.35	16400	--	--	<0.010	--	0.090	<0.015
JUL 08...	0.20	6.6	295	272	0.40	7330	--	--	<0.010	--	<0.050	<0.015
21...	0.25	6.1	368	333	0.50	4680	--	--	<0.010	--	<0.050	<0.015
AUG 20...	0.29	7.9	458	431	0.62	5190	--	--	<0.010	--	0.135	<0.015
(a)20...	0.28	7.9	457	431	0.62	5180	--	--	<0.010	--	0.139	<0.015
SEP 22...	0.35	8.5	464	447	0.63	11200	--	--	<0.010	--	0.539	<0.015

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00660)	PHOS- PHORUS ORGANIC TOTAL (MG/L AS P) (00670)
NOV 26...	--	0.60	--	0.60	<0.20	0.73	0.370	<0.010	<0.001	--	0.37
FEB 21...	--	--	--	<0.20	<0.20	--	0.040	<0.010	0.003	0.01	0.04
MAR 18...	0.04	3.7	0.27	3.7	0.30	4.1	0.530	<0.010	0.013	0.04	0.53
APR 29...	--	1.0	--	1.0	<0.20	1.3	0.572	0.016	0.014	0.04	0.57
MAY 19...	--	0.84	--	0.84	0.25	0.97	0.346	<0.010	0.012	0.04	0.35
27...	--	1.1	--	1.1	<0.20	1.2	0.311	<0.010	0.009	0.03	0.31
JUN 09...	--	0.80	--	0.80	<0.20	0.87	0.410	0.010	0.020	0.06	0.41
24...	--	0.46	--	0.46	<0.20	0.55	0.202	<0.010	0.011	0.03	0.20
JUL 08...	--	0.29	--	0.29	<0.20	0.29	0.184	<0.010	0.004	0.01	0.18
21...	--	0.23	--	0.23	<0.20	0.23	0.032	<0.010	0.006	0.02	0.03
AUG 20...	--	1.2	--	1.2	0.21	1.3	0.501	<0.010	0.008	0.02	0.50
(a)20...	--	1.1	--	1.1	<0.20	1.3	0.468	<0.010	0.009	0.03	0.47
SEP 22...	--	9.1	--	9.1	<0.20	9.7	1.60	<0.010	0.009	0.03	1.6

DATE	TIME	ALUM- INIUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
NOV 26...	1145	3.0	<1.0	1	66	<1.0	<1.0	1.0	<1.0	<1.0
FEB 21...	1100	1.0	<1.0	1	67	<1.0	<1.0	1.0	<1.0	4.0
MAR 18...	1115	1.0	<1.0	2	66	<1.0	<1.0	1.0	<1.0	3.0
APR 29...	1100	2.0	<1.0	2	56	<1.0	<1.0	2.8	<1.0	1.7
MAY 19...	1045	4.9	<1.0	2	37	<1.0	<1.0	2.3	<1.0	1.7
27...	1210	3.4	<1.0	2	38	<1.0	<1.0	1.9	<1.0	1.6
JUN 09...	1030	6.3	<1.0	2	41	<1.0	<1.0	1.6	<1.0	1.5
24...	1400	3.7	<1.0	1	45	<1.0	<1.0	<1.0	<1.0	<1.0
JUL 08...	1030	4.0	<1.0	2	48	<1.0	<1.0	2.1	<1.0	1.1
21...	1700	3.6	<1.0	1	54	<1.0	<1.0	2.5	<1.0	1.2
AUG 20...	1310	3.4	<1.0	2	75	<1.0	<1.0	1.1	<1.0	2.6
(a)20...	1320	3.4	<1.0	2	75	<1.0	<1.0	1.1	<1.0	2.2
SEP 22...	1145	3.2	<1.0	2	88	<1.0	<1.0	1.4	<1.0	2.3

(a) Concurrent replicate

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
NOV 26...	<3.0	<1.0	30	<1.0	3.0	<1.0	<1.0	720	<6	<1.0
FEB 21...	<3.0	<1.0	26	2.0	3.0	1.0	<1.0	670	<6	3.0
MAR 18...	4.0	<1.0	23	<1.0	4.0	1.0	<1.0	560	<6	2.0
APR 29...	3.6	<1.0	18	<1.0	2.5	1.5	<1.0	491	<6	<1.0
MAY 19...	11	<1.0	11	<1.0	1.9	<1.0	<1.0	317	<6	<1.0
27...	13	<1.0	12	<1.0	1.6	<1.0	<1.0	294	<6	1.0
JUN 09...	22	<1.0	10	<1.0	1.4	1.3	<1.0	283	<6	<1.0
24...	<3.0	<1.0	12	<1.0	1.8	<1.0	<1.0	305	<6	<1.0
JUL 08...	<3.0	<1.0	13	<1.0	2.0	<1.0	<1.0	363	<6	<1.0
21...	<3.0	<1.0	16	<1.0	2.5	<1.0	<1.0	441	<6	<1.0
AUG 20...	<3.0	<1.0	26	<1.0	2.9	1.3	<1.0	608	<6	<1.0
(a)20...	<3.0	<1.0	26	<1.0	2.8	1.5	<1.0	611	<6	<1.0
SEP 22...	<3.0	<1.0	24	<1.0	3.9	1.6	<1.0	638	<6	1.4

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B) (01020)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
NOV 26...	1145	127	1
FEB 21...	1100	109	1
MAR 18...	1115	115	1
APR 29...	1100	76	<1
MAY 19...	1045	52	<1
27...	1210	47	<1
JUN 09...	1030	44	<1
24...	1400	42	<1
JUL 08...	1030	62	<1
21...	1700	76	<1
AUG 20...	1310	112	1
(a)20...	1320	115	<1
SEP 22...	1145	158	<1

DATE	TIME	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
NOV 26...	1145	4.0
FEB 21...	1100	3.0
MAR 18...	1115	4.0
APR 29...	1100	2.4
MAY 19...	1045	1.4
27...	1210	1.6
JUN 09...	1030	1.2
24...	1400	1.6
JUL 08...	1030	1.9
21...	1700	2.4
AUG 20...	1310	3.0
(a)20...	1320	2.9
SEP 22...	1145	3.6

(a) Concurrent replicate

GREEN RIVER BASIN

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME											
		CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)		CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)								
NOV 26...	1145		1.1		2.8							
FEB 21...	1100		3.1		0.60							
MAR 18...	1115		6.1		>25							
APR 29...	1100		4.7		5.1							
MAY 19...	1045		5.2		>5.0							
27...	1210		5.7		6.2							
JUN 09...	1030		6.1		1.6							
24...	1400		4.4		2.8							
JUL 08...	1030		5.0		1.7							
21...	1700		3.8		2.1							
AUG 20...	1310		4.7		>5.0							
(a)20...	1320		4.6		4.9							
SEP 22...	1145		4.0		>10							
DATE	TIME	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
NOV 26...	1145	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
FEB 21...	1100	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
MAR 18...	1115	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
APR 29...	1100	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
MAY 19...	1045	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.020
27...	1210	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
JUN 09...	1030	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
24...	1400	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
JUL 08...	1030	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
21...	1700	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
AUG 20...	1310	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
(a)20...	1320	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010
SEP 22...	1145	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	0.013

(a) Concurrent replicate

GREEN RIVER BASIN

101

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)
NOV 26...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
FEB 21...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
MAR 18...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
APR 29...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
MAY 19...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
27...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
JUN 09...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
24...	<0.004	<0.003	<0.002	E0.012	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
JUL 08...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
21...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
AUG 20...	<0.004	<0.003	<0.002	<0.010	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
(a)20...	<0.004	<0.003	<0.002	<0.011	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
SEP 22...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	TERBUTH YLAZINE SURROGT WAT FLT 0.7 U GF, REC PERCENT (91064)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	SET NUMBER SCHED- ULE 2001 (NO.) (99818)	SAMPLE VOLUME SCHED- ULE 2001 (ML) (99856)
NOV 26...	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	108	107	99.5	3823	900
FEB 21...	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	96.6	110	79.9	4046	847
MAR 18...	E0.001	<0.004	<0.003	<0.013	<0.001	<0.005	104	113	108	--	877
APR 29...	E0.002	<0.004	<0.003	<0.013	<0.001	<0.005	86.5	92.7	98.2	4243	917
MAY 19...	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	131	122	120	4332	847
27...	E0.001	<0.004	<0.003	<0.013	<0.001	<0.005	97.2	112	104	4355	925
JUN 09...	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	113	120	121	4401	840
24...	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	103	118	101	4480	917
JUL 08...	E0.002	<0.004	<0.003	<0.013	<0.001	<0.005	114	129	92.2	4566	869
21...	E0.001	<0.004	<0.003	<0.013	<0.001	<0.005	93.6	118	120	4599	917
AUG 20...	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	124	123	94.9	4730	854
(a)20...	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	107	112	87.6	4730	826
SEP 22...	E0.001	<0.004	<0.003	<0.013	<0.001	<0.005	92.7	118	102	4866	813

(a) Concurrent replicate

GREEN RIVER BASIN

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	
NOV 26...	1145	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
FEB 21...	1100	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
MAR 18...	1115	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
APR 29...	1100	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
MAY 19...	1045	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
27...	1210	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
JUN 09...	1030	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
24...	1400	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
JUL 08...	1030	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
21...	1700	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
AUG 20...	1310	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
(a)20...	1320	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
SEP 22...	1145	<0.007	<0.002	<0.005	E0.006	<0.002	<0.004	<0.003	<0.002	<0.006	
DATE		CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)
NOV 26...	<0.004	<0.004	<0.001	<0.002	<0.005		<0.002	<0.001	<0.002	<0.002	
FEB 21...	<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	
MAR 18...	<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	
APR 29...	<0.004	<0.004	<0.001	<0.002	0.006	<0.004	<0.002	<0.001	<0.002	<0.002	
MAY 19...	<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	
27...	<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	
JUN 09...	<0.004	<0.004	<0.001	0.005	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	
24...	<0.004	<0.004	<0.001	<0.002	0.007	<0.004	<0.002	<0.001	<0.002	<0.002	
JUL 08...	<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	
21...	<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	E0.002	<0.002	<0.002	
AUG 20...	<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	
(a)20...	<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	
SEP 22...	<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	E0.003	<0.002	<0.002	
(a) Concurrent replicate											

(a) Concurrent replicate

GREEN RIVER BASIN

103

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	890	920	910	810	800	---	730	630	425	425	730	760
2	890	900	840	820	790	---	---	600	450	435	740	820
3	880	890	860	810	790	800	730	---	410	455	740	---
4	860	880	870	---	790	820	---	540	---	460	730	780
5	860	870	880	830	790	---	740	560	385	475	740	790
6	860	870	900	820	780	800	740	560	360	470	860	790
7	880	880	910	780	770	810	750	600	350	475	720	---
8	880	840	920	830	760	800	740	620	---	480	740	860
9	---	860	930	---	760	830	740	620	350	500	---	830
10	880	850	910	860	770	840	770	600	340	520	760	820
11	870	840	---	890	780	870	770	530	340	520	790	800
12	870	840	870	---	800	---	770	480	365	530	790	800
13	860	840	870	---	820	840	790	450	345	---	790	---
14	850	840	---	---	830	800	790	445	345	550	780	770
15	850	---	860	---	---	760	780	430	350	560	780	840
16	870	870	850	---	---	750	780	410	350	570	760	890
17	---	---	850	---	800	750	820	405	360	580	740	800
18	880	---	850	---	790	740	830	405	---	580	710	860
19	890	860	840	---	800	750	820	390	360	590	700	---
20	890	840	880	---	790	760	810	390	375	590	720	840
21	880	870	---	---	790	800	800	375	435	590	710	730
22	880	---	960	---	780	810	790	390	430	---	720	---
23	900	820	970	---	770	800	790	385	425	650	730	800
24	900	890	970	---	790	760	720	375	---	---	750	760
25	910	870	930	---	780	760	630	370	410	---	760	700
26	---	860	900	---	770	---	570	380	365	---	---	620
27	900	850	---	---	---	740	570	---	360	630	750	---
28	940	860	850	830	790	730	610	---	360	680	---	610
29	940	860	840	820	---	750	---	390	375	700	750	650
30	890	870	830	820	---	740	630	385	390	710	760	630
31	900	---	830	820	---	730	---	---	---	740	760	---
MEAN	884	863	884	826	787	784	741	471	377	556	750	773

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	7.0	3.0	.0	.0	---	9.0	12.0	18.0	20.0	24.0	24.0
2	17.0	6.0	2.0	.0	.0	2.0	---	13.0	19.0	20.0	25.0	24.0
3	17.0	7.0	1.0	.0	.0	3.0	8.0	---	19.0	20.0	25.0	---
4	18.0	8.0	.0	---	1.0	2.0	---	13.0	---	21.0	24.0	23.0
5	17.0	7.0	.0	1.0	1.0	---	7.0	14.0	19.0	25.0	25.0	23.0
6	18.0	7.0	.0	.0	.0	3.0	8.0	14.0	20.0	25.0	25.0	23.0
7	18.0	7.0	1.0	.0	.0	3.0	8.0	15.0	20.0	23.0	25.0	---
8	18.0	6.0	1.5	.0	.0	3.0	8.0	17.0	---	24.0	26.0	23.0
9	---	6.5	1.0	---	1.0	5.0	9.0	17.0	19.0	23.0	---	23.0
10	18.0	7.0	2.0	.0	.0	5.0	8.0	17.0	19.0	22.0	24.0	23.0
11	17.5	7.0	---	.0	.0	7.0	7.0	18.0	18.0	22.0	24.0	22.0
12	18.0	7.0	3.0	---	.0	---	6.0	17.0	18.0	22.0	23.0	23.0
13	17.5	5.0	3.0	---	2.0	7.0	7.0	17.0	18.0	---	23.0	---
14	18.0	5.0	---	---	.0	6.0	8.0	17.0	18.0	22.0	23.0	22.0
15	17.0	---	2.0	---	---	4.0	9.0	18.0	18.0	23.0	23.0	20.0
16	15.0	6.0	2.0	---	---	5.0	10.0	17.0	18.0	24.0	22.0	20.0
17	---	---	.0	---	2.0	6.0	12.0	18.0	20.0	25.0	23.0	21.0
18	13.0	---	.0	---	3.0	7.0	14.0	18.0	---	24.0	23.0	19.0
19	10.0	4.0	.0	---	3.0	8.0	15.0	18.0	21.0	24.0	25.0	---
20	10.0	5.0	.0	---	3.0	10.0	15.0	17.5	20.0	25.0	25.0	18.0
21	8.0	6.0	---	---	1.0	10.0	14.0	16.5	20.0	25.5	25.0	18.0
22	8.0	---	.0	---	2.5	11.0	15.0	16.0	20.0	---	25.0	---
23	8.5	7.0	.0	---	2.0	11.0	12.0	16.0	21.0	24.0	25.0	18.0
24	7.0	7.0	.0	---	2.0	10.0	13.0	16.0	---	---	25.0	18.0
25	7.0	7.0	.0	---	2.0	10.0	13.0	14.0	21.0	---	25.0	17.0
26	---	7.0	.0	---	2.5	---	13.0	14.0	21.0	---	---	17.0
27	6.0	5.0	---	---	---	10.0	13.0	---	21.0	27.0	25.0	---
28	5.0	4.0	.0	.0	.0	10.0	14.0	---	21.0	24.0	---	17.0
29	6.0	3.0	.0	.0	---	10.0	---	16.0	21.5	25.0	25.0	17.5
30	7.0	3.0	.0	.0	---	10.0	14.0	15.0	21.0	25.0	25.0	17.0
31	7.0	---	.0	.0	---	10.0	---	---	---	25.0	25.0	---
MEAN	12.9	6.0	.8	.1	1.1	7.0	10.7	16.0	19.6	23.4	24.4	20.4

GREEN RIVER BASIN

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

SUSPENDED SEDIMENT DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
NOV						
26...	1300	4050	7.0	--	544	5950
26...	1301	4050	7.0	93	520	5690
FEB						
21...	1130	4950	1.0	--	114	1520
MAR-						
18...	1145	9000	6.5	90	3500	85000
18...	1146	9000	6.5	--	3580	87000
APR						
29...	1130	12400	13.0	52	1130	38000
29...	1131	12400	13.0	--	1120	37400
MAY						
19...	1115	23500	17.5	--	1370	87100
19...	1116	23500	17.5	46	1410	89600
27...	1300	27700	16.0	--	1200	89900
27...	1301	27700	16.0	40	1440	108000
JUN						
09...	1130	32000	19.5	--	997	86100
09...	1131	32000	19.5	39	987	85300
24...	1430	23600	22.0	--	1070	68200
24...	1431	23600	22.0	29	1130	72300
JUL						
08...	1115	9200	22.5	--	404	10000
08...	1116	9200	22.5	36	378	9390
21...	1600	4710	23.0	--	118	1500
AUG						
20...	1321	4200	22.0	--	553	6270
20...	1322	4200	22.0	--	546	6190
20...	1323	4200	22.0	--	537	6090
20...	1324	4200	22.0	--	533	6040
20...	1325	4200	22.0	--	553	6270
20...	1326	4200	22.0	99	550	6240
20...	1327	4200	22.0	97	530	6010
20...	1328	4200	22.0	90	593	6720
20...	1329	4200	22.0	95	501	5680
20...	1330	4200	22.0	97	535	6070
(a)20...	1400	4200	22.0	--	556	6310
(a)20...	1401	4200	22.0	98	572	6490
SEP						
22...	1230	8930	17.0	97	12500	301000
22...	1231	8930	17.0	--	13000	312000

(a) Concurrent replicate

GREEN RIVER BASIN

105

09317800 ELECTRIC LAKE NEAR SCOFIELD, UT

LOCATION.--Lat 39°36'03", long 111°12'41", in NE¹/₄NE¹/₄SE¹/₄ sec. 14, T. 14 S., R. 6 E., Emery County, Hydrologic Unit 14060009, 25 mi northwest of Huntington, 21 mi east of Fairview.

DRAINAGE AREA.--31.0 mi².

PERIOD OF RECORD.--November 1973 to current year. Not published prior to 1986. Records available from Utah Power & Light Co.

GAGE.--Elevation of gage is 8,300 ft above sea level, Utah Power and Light Co. datum.

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 CURRENT YEAR.--Maximum contents, 31,010 acre-ft July 2, elevation, 8,574.46 ft; minimum, 16,530 acre-ft Apr. 30, elevation, 8,534.84 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23380	22980	22970	22220	21980	21750	18200	16660	28080	30970	29060	26470
2	23320	22970	22950	22210	21980	21740	18060	16730	28500	31010	28900	26340
3	23290	22960	22600	22220	21980	21740	17950	16780	28690	31000	28810	26190
4	23270	22950	22580	22210	21970	21650	17830	16840	29020	31000	28740	26010
5	23240	22950	22580	22210	21960	21560	17720	16970	29310	30990	28670	25710
6	23220	22920	22580	22200	21950	21470	17600	17160	29560	30990	28580	25540
7	23200	22910	22560	22200	21940	21380	17480	17430	29780	30970	28490	25360
8	23180	22890	22540	22200	21930	21280	17360	17760	29980	30960	28410	25190
9	23170	22870	22530	22190	21930	21190	17250	18100	30160	30950	28330	25030
10	23150	22850	22520	22190	21920	21110	17120	18500	30190	30940	28260	24850
11	23130	22830	22520	22150	21910	21020	17010	18970	30230	30920	28170	24690
12	23120	22810	22520	22150	21900	20920	16880	19350	30270	30910	28080	24520
13	23110	22790	22500	22150	21890	20840	16850	19740	30300	30890	28000	24360
14	23110	22770	22480	22150	21880	20830	16830	20200	30340	30880	27930	24200
15	23100	22750	22470	22150	21870	20390	16810	20700	30380	30830	27870	24050
16	23090	22730	22460	22140	21860	20220	16800	21170	30420	30730	27810	23940
17	23070	22730	22450	22140	21860	20080	16780	21720	30450	30620	27760	23900
18	23060	22740	22440	22140	21850	19940	16760	22260	30490	30510	27700	23930
19	23060	22730	22430	22130	21840	19840	16740	22780	30530	30410	27610	23940
20	23060	22720	22410	22090	21830	19690	16720	23280	30560	30310	27500	23910
21	23040	22720	22380	22060	21820	19550	16700	23730	30600	30210	27380	23870
22	23030	22720	22370	22050	21810	19410	16680	24150	30630	30110	27270	23840
23	23020	22730	22370	22050	21800	19290	16660	24620	30670	30020	27190	23820
24	23010	22720	22360	22040	21790	19160	16640	25050	30710	29910	27080	23810
25	23020	22700	22350	22040	21790	19030	16620	25490	30750	29800	26970	23800
26	23020	22680	22330	22040	21780	18890	16600	25850	30780	29690	26880	23810
27	23010	22660	22310	22030	21770	18760	16580	26130	30820	29580	26810	23810
28	23000	22650	22310	22030	21760	18650	16570	26370	30860	29490	26740	23810
29	23000	22640	22290	22010	---	18550	16550	26590	30900	29390	26670	23800
30	22990	22620	22280	22010	---	18410	16530	27230	30930	29280	26600	23800
31	22990	---	22240	22000	---	18320	---	27660	---	29190	26540	---
MAX	23380	22980	22970	22220	21980	21750	18200	27660	30930	31010	29060	26470
MIN	22990	22620	22240	22000	21760	18320	16530	16660	28080	29190	26540	23800
(#)	8555.03	8554.02	8552.97	8552.27	8551.59	8541.01	8534.84	8566.95	8574.30	8570.48	8564.25	8557.23
(*)	-420	-370	-380	-240	-240	-3440	-1790	+11130	+3270	-1740	-2650	-2740

CAL YR 1996 (*) +1110

WTR YR 1997 (*) +390

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

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

GREEN RIVER BASIN

09317997 HUNTINGTON CREEK NEAR HUNTINGTON, UT

LOCATION.--Lat 39°23'07", long 111°05'15", in SE¹/₄NE¹/₄SW¹/₄, sec. 36, T. 16 S., R. 7 E., Emery County, Hydrologic Unit 14060009, on right bank about 500 ft upstream from bridge to Deer Creek Mine, 8 mi northwest of Huntington.

DRAINAGE AREA.--178 mi², approximately.

PERIOD OF RECORD.--October 1979 to current year. Water years 1981-85 not published, records available in office of Utah Power & Light Co., located in Salt Lake City, Ut.

GAGE.--Water-stage recorder. Elevation of gage is 6,450 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, Feb. 3, 4 and Feb. 27, 28, which are poor. Small transmountain diversions to tributaries of San Pitch River (Sevier Lake Basin). Flow regulated by reservoirs above station.

COOPERATION.--Records collected by Utah Power & Light Co.

AVERAGE DISCHARGE.--14 years, 79.2 ft³/s, 57,380 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,680 ft³/s May 24, 1984, gage height, 4.96 ft; minimum, 3.0 ft³/s Feb. 2-5, 1981.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	53	e9.5	32	36	44	154	150	452	194	136	110
2	69	52	e6.0	32	36	51	152	134	475	168	137	127
3	83	53	e5.3	36	35	47	152	126	466	175	133	142
4	80	54	31	30	34	66	151	126	467	174	152	131
5	77	57	31	30	35	64	150	157	441	172	150	126
6	78	57	35	32	34	69	150	184	415	182	121	130
7	77	51	34	29	30	84	147	214	404	182	111	126
8	74	32	34	44	46	88	138	247	372	186	106	125
9	73	31	42	42	39	81	110	266	370	199	124	134
10	75	30	43	40	37	85	108	298	368	187	122	125
11	79	30	42	37	37	96	106	333	393	187	111	121
12	77	32	40	32	38	100	106	358	370	185	108	119
13	77	37	38	32	38	108	105	398	334	183	101	122
14	78	37	30	32	35	110	105	454	335	182	92	122
15	110	37	25	28	44	121	106	509	297	184	81	119
16	115	36	38	30	38	138	110	506	290	150	84	115
17	114	32	25	38	39	138	115	517	252	129	92	67
18	113	48	27	44	35	138	121	519	230	128	90	84
19	115	45	36	45	34	141	131	515	226	126	106	104
20	113	42	42	43	32	144	141	506	216	123	131	81
21	111	40	49	42	32	146	161	494	206	119	135	78
22	111	50	50	40	33	147	161	479	191	120	132	76
23	112	43	44	40	42	148	163	449	177	123	135	74
24	112	39	43	35	34	149	146	403	166	117	129	49
25	113	35	42	37	36	144	127	353	182	110	129	48
26	111	e14	48	39	44	153	99	313	186	119	106	55
27	110	e9.5	46	42	52	158	109	271	196	119	92	50
28	112	e9.5	44	35	47	159	144	254	201	123	101	48
29	106	e11	41	38	---	156	166	275	209	144	105	47
30	55	e6.3	40	34	---	155	145	336	202	142	103	48
31	56	---	37	38	---	156	---	408	---	139	110	---
TOTAL	2823	1103.3	1097.8	1128	1052	3584	3979	10552	9089	4771	3565	2903
MEAN	91.1	36.8	35.4	36.4	37.6	116	133	340	303	154	115	96.8
MAX	115	57	50	45	52	159	166	519	475	199	152	142
MIN	37	6.3	5.3	28	30	44	99	126	166	110	81	47
AC-FT	5600	2190	2180	2240	2090	7110	7890	20930	18030	9460	7070	5760

CAL YR 1996 TOTAL 35881.4 MEAN 98.0 MAX 548 MIN 5.3 AC-FT 71170
WTR YR 1997 TOTAL 45647.1 MEAN 125 MAX 519 MIN 5.3 AC-FT 90540

e Estimated

GREEN RIVER BASIN

107

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 above sea level. (Levels by U.S. Geological Survey, Topographic Division.)

REMARKS.--Records fair 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, 142 ft³/_s June 6, 1964, gage height, 5.43 ft; no flow at times in some years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e.00	e.00	56	16	2.2	.15
2	---	---	---	---	---	---	e.00	e.00	50	14	2.1	.26
3	---	---	---	---	---	---	e.00	e.00	59	7.9	2.0	.25
4	---	---	---	---	---	---	e.00	e.00	56	7.5	2.9	.15
5	---	---	---	---	---	---	e.00	e.20	48	7.9	2.7	.06
6	---	---	---	---	---	---	e.00	e.40	48	7.5	2.2	.22
7	---	---	---	---	---	---	e.00	e.70	23	6.9	2.0	.07
8	---	---	---	---	---	---	e.00	e1.0	21	6.0	1.8	.05
9	---	---	---	---	---	---	e.00	e1.5	31	5.1	1.8	.18
10	---	---	---	---	---	---	e.00	e2.5	40	4.7	1.7	.08
11	---	---	---	---	---	---	e.00	e4.0	40	4.6	1.3	.05
12	---	---	---	---	---	---	e.00	e6.0	26	5.0	1.2	.07
13	---	---	---	---	---	---	e.00	e7.0	19	4.8	.97	.30
14	---	---	---	---	---	---	e.00	e9.0	20	4.4	.92	.36
15	---	---	---	---	---	---	e.00	e15	e20	4.3	1.1	.33
16	---	---	---	---	---	---	e.00	e25	e21	4.2	.99	.12
17	---	---	---	---	---	---	e.00	e35	24	4.0	.91	.04
18	---	---	---	---	---	---	e.00	e52	26	4.1	.75	10
19	---	---	---	---	---	---	e.00	e50	26	4.0	.70	6.4
20	---	---	---	---	---	---	e.00	e48	25	3.8	.57	.39
21	---	---	---	---	---	---	e.00	e47	22	3.4	.48	.24
22	---	---	---	---	---	---	e.00	40	21	3.1	.41	.22
23	---	---	---	---	---	---	e.00	37	24	4.7	.54	.26
24	---	---	---	---	---	---	e.00	22	22	3.9	.47	.23
25	---	---	---	---	---	---	e.00	21	20	3.3	.34	.25
26	---	---	---	---	---	---	e.00	16	18	3.0	.27	1.1
27	---	---	---	---	---	---	e.00	15	17	2.7	.24	.60
28	---	---	---	---	---	---	e.00	24	16	3.3	.20	.42
29	---	---	---	---	---	---	e.00	33	13	4.3	.16	.44
30	---	---	---	---	---	---	e.00	55	14	2.9	.14	.46
31	---	---	---	---	---	---	---	57	---	2.2	.20	---
TOTAL	---	---	---	---	---	---	0.00	624.30	866	163.5	34.26	23.75
MEAN	---	---	---	---	---	---	.000	20.1	28.9	5.27	1.11	.79
MAX	---	---	---	---	---	---	.00	57	59	16	2.9	10
MIN	---	---	---	---	---	---	.00	.00	13	2.2	.14	.04
AC-FT	---	---	---	---	---	---	.00	1240	1720	324	68	47

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 above sea level. Prior to Aug. 24, 1960, at datum about 0.3 ft higher.

REMARKS.--Records fair 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e.10	e.54	e40	8.0	2.5	1.5
2	---	---	---	---	---	---	e.14	e.60	e38	7.5	2.4	e3.0
3	---	---	---	---	---	---	e.14	e.68	e45	7.0	2.4	e2.1
4	---	---	---	---	---	---	e.16	e.74	e43	6.6	4.8	1.1
5	---	---	---	---	---	---	e.18	e.80	e36	6.2	2.8	1.1
6	---	---	---	---	---	---	e.20	e.86	e36	5.9	2.5	1.2
7	---	---	---	---	---	---	e.20	e.90	e20	5.7	2.4	1.1
8	---	---	---	---	---	---	e.22	e.95	e17	5.4	2.3	2.9
9	---	---	---	---	---	---	e.22	e1.1	e24	5.2	3.7	4.4
10	---	---	---	---	---	---	e.25	e1.5	e29	5.0	3.0	1.8
11	---	---	---	---	---	---	e.27	e2.0	e29	4.8	2.9	1.4
12	---	---	---	---	---	---	e.30	e4.0	e20	4.6	2.9	1.4
13	---	---	---	---	---	---	e.33	e5.6	e15	4.4	2.2	1.5
14	---	---	---	---	---	---	e.33	e7.6	e16	4.1	2.1	1.4
15	---	---	---	---	---	---	e.33	e10	e16	3.9	2.0	2.9
16	---	---	---	---	---	---	e.35	e15	e17	3.8	1.9	1.6
17	---	---	---	---	---	---	e.37	e25	e19	3.7	1.9	1.4
18	---	---	---	---	---	---	e.37	e40	e20	3.6	1.8	4.1
19	---	---	---	---	---	---	e.38	e36	e20	3.6	1.7	e2.2
20	---	---	---	---	---	---	e.39	e33	e19	3.4	1.7	1.8
21	---	---	---	---	---	---	e.41	e30	e17	3.2	1.6	1.5
22	---	---	---	---	---	---	e.44	e29	e15	3.3	1.6	1.7
23	---	---	---	---	---	---	e.44	25	e17	4.5	1.6	2.0
24	---	---	---	---	---	---	e.46	18	13	3.1	1.6	2.0
25	---	---	---	---	---	---	e.47	11	10	2.9	1.5	2.0
26	---	---	---	---	---	---	e.48	9.1	8.5	2.9	1.4	3.1
27	---	---	---	---	---	---	e.48	8.8	7.7	2.8	1.4	2.4
28	---	---	---	---	---	---	e.49	9.3	7.0	3.2	1.3	2.3
29	---	---	---	---	---	---	e.50	13	6.0	2.9	1.3	2.3
30	---	---	---	---	---	---	e.52	16	7.3	2.7	1.3	2.2
31	---	---	---	---	---	---	---	e40	---	2.6	2.0	---
TOTAL	---	---	---	---	---	---	9.92	396.07	627.5	136.5	66.5	61.4
MEAN	---	---	---	---	---	---	.33	12.8	20.9	4.40	2.15	2.05
MAX	---	---	---	---	---	---	.52	40	45	8.0	4.8	4.4
MIN	---	---	---	---	---	---	.10	.54	6.0	2.6	1.3	1.1
AC-FT	---	---	---	---	---	---	20	786	1240	271	132	122

e Estimated

GREEN RIVER BASIN
09323900 JOES VALLEY RESERVOIR NEAR ORANGEVILLE, UT

109

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.--Water-stage recorder in control house at downstream end of outlet tunnel. Datum of gage is sea level (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, 64,670 acre-ft June 11, elevation, 6,992.3 ft; minimum observed, 28,190 acre-ft, Apr. 5, 6, elevation, 6,953.6 ft.

MONTHEND ELEVATION, IN FEET, AND CONTENTS AT 2400, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	6,971.3	42,360	--
Oct. 31	6,969.3	40,570	-1,790
Nov.30	6,969.4	40,660	+90
Dec. 31	6,969.3	40,570	-90
CAL YR 1996	--	--	-3,970
Jan. 31	6,969.2	40,480	-90
Feb. 28	6,968.0	39,430	-1,050
Mar. 31	6,955.3	29,400	-10,030
Apr. 30	6,955.0	29,180	-220
May 31	6,982.8	53,830	+24,650
June 30	6,991.3	63,470	+9,640
July 31	6,983.8	54,920	-8,550
Aug. 31	6,981.4	52,340	-2,580
Sep. 30	6,977.0	47,810	-4,530
WTR YR 1997	--	--	+5,450

09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UT

LOCATION.--Lat 39°06'15", long 111°12'57", 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. Elevation of gage is 6,210 ft above sea level, 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,180 ft³/s Aug. 27, 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)
May 30	2130	*971	*5.81				

Minimum daily discharge, 5.8 ft³/s Jan. 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	12	e9.0	e11	e8.2	e8.4	24	119	764	147	46	28
2	14	12	e9.0	e11	e9.6	e8.4	20	86	777	140	42	54
3	14	14	e8.8	e12	e8.0	e9.6	26	83	760	134	42	81
4	15	14	e9.0	e9.4	e8.5	e9.0	27	113	731	128	60	44
5	14	14	e9.4	e9.4	e8.2	e10	21	148	639	122	62	46
6	14	9.2	e10	e8.4	e7.0	e12	20	174	576	116	47	40
7	13	16	e9.6	e8.0	e6.2	14	20	204	549	112	43	28
8	13	16	e10	e9.0	e6.2	14	20	209	533	110	39	32
9	13	14	e11	e10	e6.6	16	21	223	529	104	38	27
10	13	13	e12	e12	e7.2	18	20	255	592	99	40	53
11	13	13	e12	e10	e7.2	20	19	273	511	94	42	38
12	12	13	e12	e8.0	e7.5	22	18	300	461	90	61	26
13	13	13	e13	e8.0	e6.6	20	17	341	421	86	39	25
14	13	13	e11	e8.4	e6.4	17	20	379	412	81	34	28
15	12	11	e9.0	e7.0	e7.5	18	24	431	356	78	31	24
16	12	e10	e9.5	e6.0	e8.0	18	33	464	343	75	30	24
17	11	e12	e8.7	e5.8	e9.0	19	49	492	347	72	29	22
18	12	e14	e7.9	e7.0	e8.4	21	67	513	333	72	29	87
19	14	e14	e8.6	e8.0	e7.8	24	77	513	328	71	27	94
20	12	15	e8.6	e8.0	e7.8	29	91	490	310	69	29	40
21	10	14	e9.8	e7.7	e7.4	33	128	535	288	65	33	30
22	14	e13	e9.4	e8.2	e7.4	33	99	522	271	73	41	27
23	15	e12	e9.0	e9.6	e7.5	35	86	549	249	157	32	25
24	13	12	e9.0	e9.0	e7.0	30	60	522	226	85	31	24
25	14	e12	e8.5	e8.0	e8.0	20	53	448	210	67	28	23
26	15	13	e9.2	e9.4	e9.0	24	68	373	196	60	28	48
27	21	9.1	e10	e9.0	e9.6	32	94	332	185	59	27	32
28	15	10	e9.0	e9.0	e9.0	31	139	345	175	84	26	26
29	14	e9.6	e9.4	e8.8	---	24	145	468	165	66	25	24
30	14	e9.4	e9.8	e8.0	---	23	110	669	156	50	23	23
31	14	---	e10	e8.0	---	26	---	766	---	49	34	---
TOTAL	420	376.3	301.2	271.1	216.8	638.4	1616	11339	12393	2815	1138	1123
MEAN	13.5	12.5	9.72	8.75	7.74	20.6	53.9	366	413	90.8	36.7	37.4
MAX	21	16	13	12	9.6	35	145	766	777	157	62	94
MIN	10	9.1	7.9	5.8	6.2	8.4	17	83	156	49	23	22
AC-FT	833	746	597	538	430	1270	3210	22490	24580	5580	2260	223

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912-23, 1948-97, BY WATER YEAR (WY)

	MEAN	17.9	13.5	10.6	8.84	9.76	13.7	44.8	221	296	101	41.9	24.2
MAX	70.2	32.2	21.5	13.7	20.0	26.4	128	486	732	404	128	51.0	
(WY)	1917	1985	1985	1921	1922	1986	1985	1952	1984	1983	1983	1952	
MIN	7.59	6.40	4.27	3.00	4.61	5.02	13.7	44.8	40.3	17.2	12.0	9.30	
(WY)	1960	1995	1963	1963	1978	1977	1967	1977	1977	1977	1977	1994	

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1912-23, 1948-97

ANNUAL TOTAL	21576.3	32647.8	
ANNUAL MEAN	59.0	89.4	67.0
HIGHEST ANNUAL MEAN			140
LOWEST ANNUAL MEAN			17.6
HIGHEST DAILY MEAN	447	777	1240
LOWEST DAILY MEAN	7.9	5.8	1.0
ANNUAL SEVEN-DAY MINIMUM	8.9	6.8	2.6
ANNUAL RUNOFF (AC-FT)	42800	64760	48540
10 PERCENT EXCEEDS	204	332	198
50 PERCENT EXCEEDS	17	23	18
90 PERCENT EXCEEDS	10	8.3	8.0

e Estimated

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. Elevation of gage is 4,190 ft above sea level, 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 fair except for estimated daily discharges, which are 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).

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.--Peak discharges greater than base discharge of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 11	1130	*1,210	*9.29				

Minimum daily discharge, 20 ft³/s Jan. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	79	43	e31	e40	197	321	78	526	100	e80	65
2	45	69	44	e33	e46	193	e322	72	637	90	e58	76
3	45	63	36	e35	e43	199	e329	73	704	83	e51	405
4	43	62	31	e31	e43	215	326	65	702	72	e46	300
5	51	70	41	e31	e45	251	303	60	688	70	e310	213
6	50	68	60	e27	e43	e253	230	53	648	67	613	177
7	49	63	83	e25	e39	e277	191	58	551	62	201	354
8	50	57	70	e25	e40	e329	169	87	575	59	139	215
9	50	59	51	e29	e40	e456	176	64	706	54	107	139
10	46	57	50	e32	e45	e430	163	62	832	55	88	130
11	49	52	52	e32	e47	e400	135	72	1170	60	90	139
12	46	50	55	e31	e54	e386	123	102	1110	51	251	126
13	42	50	63	e30	e54	e364	117	140	956	54	366	113
14	41	49	60	e25	e52	e338	115	140	870	53	198	120
15	42	50	55	e20	e60	e320	110	183	824	49	138	210
16	44	49	45	e21	e60	e316	107	258	743	53	102	196
17	50	49	24	e23	e69	323	100	306	646	49	77	123
18	54	49	e23	e23	e80	e329	93	314	606	47	65	112
19	51	47	e26	e23	85	e327	91	326	575	44	54	643
20	54	55	e26	e26	104	e329	93	328	520	137	60	839
21	62	65	e32	e29	114	e334	106	319	483	88	48	376
22	68	69	e31	e29	116	e331	119	359	441	59	49	294
23	69	158	e30	e38	120	e340	135	349	403	53	52	195
24	70	120	e29	e33	115	e340	129	361	364	177	62	177
25	87	77	e29	e33	112	e331	142	524	325	155	94	162
26	86	62	e31	e37	105	e329	127	e572	259	81	72	159
27	93	56	e34	e35	96	e331	104	e467	215	57	63	166
28	103	49	e37	e35	138	e335	90	372	186	44	58	171
29	98	45	e35	e35	---	e331	77	313	140	126	80	154
30	129	44	e35	e34	---	e331	78	316	112	472	61	147
31	99	---	e32	e35	---	e331	---	395	---	175	52	---
TOTAL	1913	1892	1293	926	2005	9896	4721	7188	17517	2796	3785	6696
MEAN	61.7	63.1	41.7	29.9	71.6	319	157	232	584	90.2	122	223
MAX	129	158	83	38	138	456	329	572	1170	472	613	839
MIN	41	44	23	20	39	193	77	53	112	44	46	65
AC-FT	3790	3750	2560	1840	3980	19630	9360	14260	34740	5550	7510	13280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910-18, 1946-1997, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1910	91.7	848	1917	.85	1957
1911	66.3	358	1958	5.68	1978
1912	46.6	125	1910	11.8	1978
1913	43.4	224	1911	13.1	1991
1914	71.5	200	1910	20.9	1977
1915	108	729	1910	23.3	1976
1916	108	748	1914	6.84	1977
1917	307	1626	1914	3.72	1977
1918	563	2772	1983	1.09	1977
1919	157	965	1983	.25	1994
1920	89.7	344	1916	.38	1960
1921	76.3	309	1961		1956

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1910-18, 1946-1997

	ANNUAL TOTAL	ANNUAL MEAN	HIGHEST ANNUAL MEAN	LOWEST ANNUAL MEAN	HIGHEST DAILY MEAN	LOWEST DAILY MEAN	ANNUAL SEVEN-DAY MINIMUM	ANNUAL RUNOFF (AC-FT)	10 PERCENT EXCEEDS	50 PERCENT EXCEEDS	90 PERCENT EXCEEDS
1996	32630	89.2			723	11	14	64720	238	50	25
1997	60628	166			1170	20	23	120300	380	80	34
1910-18, 1946-1997			144	483	7300	.00	.00	104400	316	50	12
			17.6		Oct 8 1916	Aug 24 1910	Aug 15 1915				

e Estimated

GREEN RIVER BASIN

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.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July to September 1949, November 1950 to September 1962, October 1964 to September 1979, daily, March 1982 to current year.

WATER TEMPERATURES: July to September 1949, October 1950 to September 1962, October 1964 to September 1977

SUSPENDED-SEDIMENT DISCHARGE: March 1948 to September 1949, October 1950 to September 1959.

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 observed (water years 1949, 1951-70, 1974-77, 1982 to current year), 7,230 microsiemens July 15, 1954, and June 29, 1977; minimum daily observed (water years 1949, 1951-77, 1982 to current year), 650 microsiemens June 29, 1984.

WATER TEMPERATURES: Maximum (water years 1949, 1951-61, 1966-77), 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 observed, 3,880 microsiemens Dec. 22; minimum observed, 680 microsiemens June 7.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM HG) (00025)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	HARDNESS NONCARBONATE (MG/L AS CaCO3) (00904)
NOV 22...	1300	67	2950	8.3	16.5	7.0	10.1	99	650	1000	740
MAR 04...	1330	224	1460	8.2	7.0	3.0	--	--	--	--	--
APR 08...	1040	173	1070	8.3	15.5	7.5	--	--	--	--	--
JUN 03...	1000	718	790	8.4	17.0	18.5	--	--	--	--	--
JUN 26...	1030	269	1000	8.3	27.0	21.0	--	--	--	--	--
AUG 14...	1000	192	2700	8.0	27.0	19.0	--	--	--	--	--
SEP 05...	1030	219	2180	8.0	22.0	20.0	--	--	--	--	--

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
NOV 22...	190	130	330	41	5	7.1	0	334	274	1400

DATE	CHLORIDE, DIS-SOLVED (MG/L AS Cl) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
NOV 22...	49	0.40	5.8	2550	2280	3.47	459	0.330	1.5	0.010

GREEN RIVER BASIN
09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS ORGANIC TOTAL (MG/L AS P) (00670)
NOV 22...	0.03	0.340	0.070	0.09	0.43	0.50	0.84	0.130	<0.010	0.13
MAR 04...	--	--	--	--	0.90	0.90	0.90	0.440	--	0.44
APR 08...	--	--	--	--	0.50	0.50	0.50	0.410	--	0.41
JUN 03...	--	--	--	--	1.1	1.1	1.1	0.731	--	0.73
AUG 26...	--	--	--	--	--	<0.20	--	<0.010	--	--
SEP 14...	--	--	--	--	0.94	0.94	0.94	2.03	--	2.0
SEP 05...	--	--	--	--	4.6	4.6	4.6	1.22	--	1.2

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B) (01020)
NOV 22...	1300	237

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	2530	---	---	810	---	1080	---	2500	---
2	---	---	---	---	---	---	800	---	860	---	---	---
3	---	---	---	1980	---	---	780	---	---	---	2120	---
4	---	---	3280	---	2310	1570	---	2160	---	2040	---	1830
5	---	---	3480	---	2130	1520	---	2480	---	---	2350	---
6	2910	---	---	---	2170	1360	---	2600	730	---	2010	---
7	---	---	---	2810	2190	---	---	---	680	2290	2210	---
8	---	---	---	3090	---	---	1100	---	840	2230	2370	---
9	---	---	---	3100	---	1320	1120	---	750	---	---	---
10	---	---	2880	3590	---	1730	---	1750	830	2120	---	---
11	---	---	2830	---	2280	---	1560	1920	---	2230	---	---
12	---	---	2490	---	---	---	---	2370	---	---	---	---
13	2880	---	---	---	2390	---	1820	---	830	---	---	---
14	2870	2930	---	2930	---	---	---	---	840	---	2250	---
15	---	---	---	2720	---	---	1670	---	850	---	---	---
16	---	---	---	2490	---	---	1600	1250	---	2210	---	---
17	---	---	---	---	---	---	---	1080	---	2100	---	2300
18	2770	2940	3810	---	---	1020	1600	950	820	2140	---	---
19	2800	---	3590	---	---	960	---	930	820	2190	---	2040
20	2710	---	3830	---	---	---	1700	930	---	2190	---	---
21	2670	---	3750	2700	---	920	---	---	---	1550	---	---
22	---	---	3880	---	---	---	1590	1130	---	---	1840	---
23	---	3090	---	2580	---	900	---	1130	---	---	---	2190
24	---	2440	---	---	---	910	---	1150	---	---	---	2140
25	2650	---	---	---	2440	880	1440	1640	1000	---	---	---
26	2550	---	3090	---	2440	---	---	1210	1030	---	---	2140
27	2420	---	2750	---	---	860	1880	---	1120	---	---	---
28	2520	3530	---	2260	---	---	1880	---	1350	2480	2500	---
29	---	3450	---	2100	---	870	2080	---	1490	2220	---	---
30	---	3370	---	2310	---	840	---	---	---	2230	---	1990
31	---	---	2620	2110	---	---	---	---	---	2770	---	---
MEAN	2700	3110	3250	2620	2290	1120	1460	1540	936	2200	2240	2090

DIRTY DEVIL RIVER BASIN

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. Elevation of gage is 9,200 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 424 ft³/s June 12, 1995, gage height, 3.52 ft; minimum, 1.3 ft³/s Oct. 30, 1994, due to ice storage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 191 ft³/s May 15, 18, gage height, 1.31 ft; minimum daily discharge, 6.0 ft³/s Feb. 23-25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	e7.8	e8.0	e7.2	e7.8	e6.1	e9.0	e42	55	13	12	13
2	8.1	e8.0	e8.0	e7.9	e7.9	e6.2	e8.8	e36	49	13	12	20
3	8.5	e8.0	e8.0	e8.2	e7.8	e6.2	e9.0	e36	46	13	12	17
4	8.3	e7.8	e8.0	e8.0	e7.8	e6.5	e9.6	e39	42	13	16	17
5	8.2	e7.8	e8.4	e7.8	e7.2	e6.8	e9.0	e44	40	13	13	18
6	7.8	e8.2	e8.9	e7.8	e7.2	e7.0	e8.9	e48	37	12	11	23
7	7.7	e9.0	e8.3	e7.6	e7.0	e7.2	e8.9	e55	35	12	11	16
8	7.8	e8.5	e8.2	e7.4	e7.0	e8.0	e8.9	e58	37	12	11	13
9	7.9	e8.6	e8.5	e7.5	e7.0	e8.2	e8.9	e58	44	12	11	17
10	7.8	e8.8	e8.8	e7.8	e7.6	e8.6	e9.0	e60	49	11	14	15
11	7.7	e9.0	e8.8	e8.0	e7.6	e9.0	e8.9	e66	35	11	14	15
12	7.6	e9.0	e8.8	e8.0	e7.9	e9.5	e8.8	e80	32	11	13	13
13	7.3	e9.0	e8.4	e7.2	e8.0	e9.5	e8.6	e110	32	11	13	12
14	7.8	e8.8	e7.8	e7.0	e7.4	e8.8	e8.6	132	36	10	12	11
15	8.0	e8.8	e7.6	e7.0	e7.2	e8.4	e9.0	137	31	10	11	13
16	7.6	e8.6	e7.5	e6.2	e7.2	e8.0	e11	123	27	10	10	12
17	e7.4	e9.6	e7.3	e6.2	e8.0	e8.0	e14	115	23	10	11	11
18	e7.6	e9.4	e7.2	e6.4	e8.0	e8.6	e16	131	22	10	11	15
19	e7.8	e9.2	e7.6	e7.0	e7.0	e9.0	e21	115	20	11	11	26
20	e7.2	e8.2	e7.6	e7.0	e6.7	e9.2	e26	96	19	11	11	12
21	e7.6	e8.4	e7.6	e7.0	e6.4	e9.2	e33	93	18	11	11	12
22	e8.0	e9.6	e7.4	e7.2	e6.2	e9.0	e34	87	17	12	12	12
23	e8.0	e9.0	e7.2	e7.8	e6.0	e9.0	e31	88	16	12	15	11
24	e7.7	e8.4	e7.2	e7.8	e6.0	e9.0	e28	80	16	12	13	11
25	e7.5	e8.4	e6.8	e7.5	e6.0	e9.0	e27	59	16	12	11	11
26	e7.8	e8.2	e6.8	e7.9	e6.2	e9.0	e27	46	16	11	11	19
27	e8.4	e8.8	e7.0	e8.0	e6.8	e9.0	e29	46	15	12	11	13
28	e7.6	e7.8	e7.2	e7.5	e6.2	e9.0	e35	54	15	15	11	12
29	e7.4	e8.2	e7.2	e7.5	---	e9.0	e42	64	15	12	10	11
30	e7.4	e8.2	e7.2	e7.5	---	e9.0	e40	63	14	12	11	11
31	e7.6	---	e7.2	e7.5	---	e9.0	---	63	---	12	13	---
TOTAL	240.9	257.1	240.5	230.4	199.1	258.0	547.9	2324	869	362	369	432
MEAN	7.77	8.57	7.76	7.43	7.11	8.32	18.3	75.0	29.0	11.7	11.9	14.4
MAX	8.5	9.6	8.9	8.2	8.0	9.5	42	137	55	15	16	26
MIN	7.2	7.8	6.8	6.2	6.0	6.1	8.6	36	14	10	10	11
AC-FT	478	510	477	457	395	512	1090	4610	1720	718	732	857

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
(WY)	1985	1985	1985	1985	1985	1985	1986	1981	1984	1983	1984	1984
(WY)	1978	1978	1978	1992	1987	1978	1967	1977	1977	1977	1977	1977

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1965 - 1997

ANNUAL TOTAL	5335.4	6329.9										
ANNUAL MEAN	14.6	17.3				15.1						
HIGHEST ANNUAL MEAN									32.6		1984	
LOWEST ANNUAL MEAN									7.33		1990	
HIGHEST DAILY MEAN	165	May 13				137	May 15		227	Jun 1	1984	
LOWEST DAILY MEAN	6.8	Dec 25				6.0	Feb 23		2.5	Jan 21	1987	
ANNUAL SEVEN-DAY MINIMUM	7.1	Dec 23				6.2	Feb 23		3.1	Jan 13	1992	
ANNUAL RUNOFF (AC-FT)	10580					12560			10940			
10 PERCENT EXCEEDS	20					40			29			
50 PERCENT EXCEEDS	9.0					9.0			8.6			
90 PERCENT EXCEEDS	7.7					7.2			5.2			

e Estimated

DIRTY DEVIL RIVER BASIN
09330000 FREMONT RIVER NEAR BICKNELL, UT

115

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 150 ft upstream 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. Elevation of gage is 6,920 ft above sea level, 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. October 1, 1976 to April 2, 1990, water-stage recorders at site about 0.30 mi upstream at different datum.

REMARKS.--Records good except for periods of heavy moss growth in the channel from June to November and estimated daily discharges, which are poor. Diversions for irrigation of about 10,600 acres above station. Flow regulated by Fish Lake and Johnson, Forsythe, and Mill Meadow Reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,360 ft³/s Mar. 21, 1997, gage height, 7.02 ft., rating curve extended above 770 ft³/s; minimum observed, 18 ft³/s June 2, 4, 13-15, 17, 18, 1912.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1360 ft³/s Mar. 21, gage height, 7.02 ft; minimum daily discharge, 48 ft³/s Jul. 12, 13, 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	116	81	84	86	114	68	66	59	52	56	79
2	73	97	87	83	85	85	70	64	58	53	57	124
3	74	80	76	102	82	85	81	64	58	49	57	130
4	73	81	76	87	82	86	91	65	58	51	72	110
5	71	82	81	78	83	84	77	64	59	51	73	102
6	70	80	84	77	79	88	73	72	61	52	62	106
7	70	80	83	74	78	88	73	75	65	52	55	100
8	69	83	83	79	80	89	67	66	63	50	54	95
9	69	86	86	81	81	90	75	68	64	51	54	112
10	69	86	91	83	83	93	74	71	67	50	57	100
11	70	87	92	83	85	100	70	66	62	49	62	94
12	69	88	89	82	84	115	70	65	60	48	68	95
13	70	88	87	82	82	126	70	66	59	48	81	93
14	74	89	83	81	82	134	70	69	64	50	84	95
15	73	88	76	87	86	179	69	68	63	49	75	106
16	74	89	82	76	87	255	68	64	62	50	66	102
17	72	89	87	87	89	321	67	62	60	49	63	97
18	73	96	87	76	88	306	93	60	58	49	63	96
19	76	90	67	78	86	302	223	62	55	49	62	95
20	76	88	70	79	87	436	270	66	54	51	61	91
21	80	87	74	80	83	965	245	65	55	50	72	91
22	88	95	74	80	85	852	144	66	54	52	80	90
23	93	92	75	83	86	901	93	66	54	53	80	88
24	91	87	73	83	84	624	85	64	54	52	91	89
25	91	87	77	83	87	253	76	67	54	50	81	90
26	91	87	78	88	85	133	73	67	55	48	83	92
27	104	81	79	88	88	135	72	63	56	52	129	91
28	117	80	80	85	85	188	70	61	55	60	115	83
29	122	84	79	85	---	155	65	60	56	69	99	78
30	124	82	81	82	---	93	64	61	54	62	83	77
31	120	---	86	85	---	72	---	61	---	57	77	---
TOTAL	2558	2625	2466	2541	2358	7547	2806	2024	1756	1608	2272	2891
MEAN	82.5	87.5	79.5	82.0	84.2	243	93.5	65.3	58.5	51.9	73.3	96.4
MAX	124	116	92	102	89	965	270	75	67	69	129	130
MIN	69	80	67	74	78	72	64	60	54	48	54	77
AC-FT	5070	5210	4890	5040	4680	14970	5570	4010	3480	3190	4510	5730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1997, BY WATER YEAR (WY)

	MEAN	86.8	90.9	87.0	88.9	96.6	112	123	88.3	74.3	69.5	76.7	77.6
MAX	145	140	133	131	135	243	412	163	174	135	139	119	119
(WY)	1985	1985	1985	1985	1984	1997	1987	1985	1984	1984	1984	1984	1984
MIN	54.1	59.7	63.7	66.1	70.0	66.4	63.3	58.7	46.1	50.7	46.3	51.4	51.4
(WY)	1980	1980	1979	1980	1980	1980	1980	1981	1980	1980	1980	1978	1978

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1977 - 1997

ANNUAL TOTAL	26940	33452	
ANNUAL MEAN	73.6	91.6	89.2
HIGHEST ANNUAL MEAN			138
LOWEST ANNUAL MEAN			60.2
HIGHEST DAILY MEAN	124	Oct 30	965
LOWEST DAILY MEAN	52	Jun 10	48
ANNUAL SEVEN-DAY MINIMUM	52	Jun 17	49
ANNUAL RUNOFF (AC-FT)	53440	66350	64620
10 PERCENT EXCEEDS	91	105	120
50 PERCENT EXCEEDS	74	79	82
90 PERCENT EXCEEDS	54	55	56

e Estimated

DIRTY DEVIL RIVER BASIN
09330230 FREMONT RIVER NEAR CAINEVILLE, UT

LOCATION.--Lat 38°15'45", long 111°13'54" (revised), 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. Elevation of gage is 4,750 ft above sea level, from topographic map. Prior to May 16, 1996 at site 300 ft upstream at datum 6.00 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Many diversions for irrigation upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,800 ft³/s July 24, 1984, gage height, 10.20 ft, from rating curve extended above 640 ft³/s on basis of slope-area measurement at gage heights of 6.90 ft and 7.20 ft at datum then in use and slope-conveyance study; minimum discharge, 8 ft³/s June 29, 1994.

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)
Oct. 3	1815	1,070	6.88	Aug. 12	1815	795	6.59
Mar. 24	0100	627	6.37	Aug. 21	1830	1,830	7.49
Jul. 23	0615	1,210	7.01	Sept. 1	2400	2,640	8.03
Jul. 29	0215	1,910	7.54	Sept. 2	1150	4,130	8.96
Aug. 4	1915	4,630	9.29	Sept. 4	1730	*4,680	*9.32

Minimum daily discharge, 13 ft³/s June 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	87	73	85	86	90	105	71	29	19	44	93
2	37	85	81	84	87	93	111	69	28	22	45	1030
3	69	90	75	92	85	92	126	71	21	19	45	200
4	46	87	73	94	85	95	129	66	20	21	295	429
5	49	86	78	81	85	93	125	62	19	22	70	161
6	46	83	82	80	83	98	111	58	18	21	60	146
7	42	77	81	72	75	99	111	66	24	21	54	159
8	41	81	83	74	80	101	109	62	21	19	52	130
9	40	81	83	80	82	102	110	58	23	18	53	186
10	39	80	85	82	83	104	110	62	41	20	55	158
11	42	79	88	83	83	105	106	62	27	21	56	169
12	45	80	89	83	85	111	104	55	17	21	116	136
13	46	81	87	85	83	120	105	49	19	21	68	129
14	47	81	85	82	82	125	104	53	20	20	67	125
15	48	82	77	83	87	136	102	57	20	18	58	133
16	46	82	80	91	88	157	102	55	20	17	53	130
17	48	81	77	85	88	178	101	58	19	19	48	117
18	56	84	e72	86	89	182	97	54	17	18	66	113
19	60	83	e77	93	87	172	129	53	16	36	55	111
20	62	82	85	88	88	173	164	52	14	23	41	145
21	63	81	e81	88	85	297	160	48	17	20	133	97
22	70	85	e79	85	86	465	154	46	16	24	59	90
23	80	86	78	84	89	444	120	40	18	99	60	85
24	80	83	72	86	89	448	110	38	13	30	63	81
25	82	82	75	87	93	298	98	41	16	27	61	79
26	81	83	80	96	95	198	90	44	18	29	64	88
27	86	81	82	95	99	174	87	37	20	29	72	85
28	99	78	83	90	98	186	83	33	22	97	92	80
29	94	80	83	88	---	178	78	28	20	167	80	76
30	93	79	83	84	---	152	70	27	20	73	67	70
31	92	---	83	84	---	123	---	29	---	47	64	---
TOTAL	1864	2470	2490	2650	2425	5389	3311	1604	613	1058	2216	4831
MEAN	60.1	82.3	80.3	85.5	86.6	174	110	51.7	20.4	34.1	71.5	161
MAX	99	90	89	96	99	465	164	71	41	167	295	1030
MIN	35	77	72	72	75	90	70	27	13	17	41	70
AC-FT	3700	4900	4940	5260	4810	10690	6570	3180	1220	2100	4400	9580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1997, BY WATER YEAR (WY)

	MEAN	67.0	86.7	88.8	91.7	98.3	105	97.1	63.8	43.2	46.7	58.9	59.8
MAX	122	133	134	136	143	174	334	213	155	171	162	161	161
(WY)	1985	1985	1986	1985	1985	1997	1987	1973	1983	1985	1971	1997	1997
MIN	38.0	58.6	66.7	60.2	82.5	79.3	50.5	26.6	20.4	23.0	24.0	23.8	23.8
(WY)	1980	1982	1969	1975	1979	1981	1996	1974	1997	1994	1978	1978	1978

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1968 - 1997

ANNUAL TOTAL	21356	30921	75.4
ANNUAL MEAN	58.3	84.7	133
HIGHEST ANNUAL MEAN			1985
LOWEST ANNUAL MEAN			1978
HIGHEST DAILY MEAN	115	1030	1200
LOWEST DAILY MEAN	15	13	12
ANNUAL SEVEN-DAY MINIMUM	19	16	13
ANNUAL RUNOFF (AC-FT)	42360	61330	54650
10 PERCENT EXCEEDS	98	129	111
50 PERCENT EXCEEDS	49	81	74
90 PERCENT EXCEEDS	21	21	29

e Estimated

DIRTY DEVIL RIVER BASIN
09330500 MUDDY CREEK NEAR EMERY, UT

117

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. Elevation of gage is 6,400 ft above sea level, 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.

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)
July 23	0520	*379	*3.71	Sept. 1	2130	*379	*3.71

Minimum daily discharge, 7.0 ft³/s Jan. 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	14	e9.4	e12	e9.2	e8.0	18	62	221	94	50	56
2	15	16	e9.4	e12	e11	e8.0	14	48	220	93	48	54
3	16	17	e9.4	e13	e9.6	e8.6	16	48	218	92	47	70
4	16	16	e9.6	e11	e10	e8.3	18	59	208	91	67	44
5	15	16	e10	e11	e9.5	e9.3	13	72	220	90	58	43
6	15	9.8	e11	e10	e8.7	e10	13	80	211	88	48	50
7	14	e15	e10	e9.4	e8.4	e12	13	84	215	88	47	38
8	14	e15	e11	e10	e8.4	e12	13	84	199	87	45	50
9	15	e14	e12	e11	e10	e13	14	84	187	86	44	39
10	14	e14	e13	e13	e12	e15	13	89	205	86	45	62
11	15	e14	e13	e12	e12	e17	12	99	183	85	48	45
12	15	14	e13	e10	e14	e18	12	114	175	84	58	35
13	15	14	e14	e10	e12	e16	11	138	174	83	41	38
14	15	13	e12	e11	e11	12	14	161	172	83	38	34
15	14	11	e9.8	e9.0	e12	11	18	181	160	83	37	35
16	15	e10	e10	e7.4	e13	11	26	197	150	85	36	30
17	13	e11	e8.9	e7.0	e14	12	32	210	142	85	36	26
18	15	e12	e8.2	e8.0	e12	15	39	215	137	84	35	70
19	16	e12	e9.0	e8.6	e11	19	45	198	135	84	35	46
20	15	13	e9.4	e8.6	e11	23	51	209	133	84	35	38
21	9.6	12	e11	e8.4	e9.6	23	64	218	132	82	40	29
22	14	e12	e10	e9.3	e9.6	24	56	208	132	85	40	28
23	19	13	e9.6	e11	e9.6	27	53	201	126	103	36	29
24	18	9.3	e9.6	e10	e8.8	24	38	208	121	69	34	34
25	15	e10	e9.2	e9.5	e9.4	16	37	199	116	60	33	39
26	11	11	e9.7	e11	e10	25	42	184	112	56	30	44
27	24	e9.6	e11	e10	e11	29	55	168	107	54	30	32
28	17	e11	e9.5	e10	e9.0	31	69	164	102	64	29	33
29	16	e10	e10	e9.7	---	22	71	176	98	60	33	34
30	15	e9.9	e11	e9.2	---	18	57	193	96	52	40	33
31	15	---	e12	e9.2	---	21	---	202	---	53	46	---
TOTAL	471.6	378.6	324.7	311.3	295.8	518.2	947	4553	4807	2473	1289	1238
MEAN	15.2	12.6	10.5	10.0	10.6	16.7	31.6	147	160	79.8	41.6	41.3
MAX	24	17	14	13	14	31	71	218	221	103	67	70
MIN	9.6	9.3	8.2	7.0	8.4	8.0	11	48	96	52	29	26
AC-FT	935	751	644	617	587	1030	1880	9030	9530	4910	2560	2460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911-13, 1950-97, BY WATER YEAR (WY)

	MEAN	18.1	11.8	9.33	8.08	8.56	12.3	32.6	103	124	70.1	40.9	26.0
MAX	60.9	34.8	22.6	14.6	16.1	37.7	112	306	330	239	104	59.7	
(WY)	1985	1985	1985	1985	1958	1911	1985	1952	1983	1983	1983	1983	1983
MIN	4.78	3.73	2.00	2.00	3.09	4.15	7.84	14.2	15.7	17.1	7.55	9.58	
(WY)	1978	1912	1912	1911	1911	1995	1967	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1911-13, 1950-97

ANNUAL TOTAL	14095.9	17607.2	
ANNUAL MEAN	38.5	48.2	38.8
HIGHEST ANNUAL MEAN			86.1
LOWEST ANNUAL MEAN			9.40
HIGHEST DAILY MEAN	210	May 18	664
LOWEST DAILY MEAN	8.2	Dec 18	.00
ANNUAL SEVEN-DAY MINIMUM	9.4	Dec 17	1.0
ANNUAL RUNOFF (AC-FT)	27960	34920	28130
10 PERCENT EXCEEDS	112	137	100
50 PERCENT EXCEEDS	17	18	17
90 PERCENT EXCEEDS	11	9.6	7.0

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, Dixie National Forest, on right bank 0.1 mi downstream from "The Box" canyon, 0.2 mi upstream from unnamed right bank tributary, and 7.0 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. Crest-stage gage since June 16, 1994. Elevation of gage is 6,400 ft above sea level, from topographic map. Prior to Aug. 15, 1978, on left bank at same datum.

REMARKS.--Records good except those for flows less than 2.0 ft³/s and estimated daily discharges, which are poor. Some regulation of low flow by several small headwater reservoirs (combined capacity 2,120 acre-ft) upstream from station.

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 7.52 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)
July 28	2130	130	3.57	Sept. 5	1600	^a 395	^a 5.17
Aug. 11	1735	^a 285	4.64	Sept. 15	1130	164	3.86
Aug. 23	1705	173	3.93				

^a From rating curve extended above 180 ft³/s on basis of slope-area measurements at gage heights 4.21 ft and 7.52 ft.

Minimum daily discharge, 0.80 ft³/s Feb. 21, 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	e2.5	e1.0	e1.8	e1.6	e1.0	2.6	7.5	4.1	4.7	4.1	3.2
2	e4.0	e2.0	e1.2	e1.8	e1.8	e1.4	2.2	6.0	4.1	4.7	4.2	12
3	e3.0	e3.0	e1.4	e3.0	e1.6	e1.4	2.8	5.4	3.8	4.6	4.9	6.9
4	e2.0	e2.5	e1.6	e2.4	e1.6	e1.2	2.8	6.6	4.4	4.6	8.4	10
5	e1.5	e2.3	e1.8	e2.0	e1.4	e1.0	2.4	8.4	4.5	4.5	5.5	31
6	e1.3	e2.2	e2.0	e2.0	e1.4	e1.4	2.1	11	4.4	4.5	4.4	6.0
7	e1.2	e2.0	e2.0	e2.2	e1.2	e1.2	2.5	13	4.3	4.5	4.2	4.8
8	e1.0	e2.4	e2.2	e2.2	e1.0	e1.4	2.4	11	4.4	4.4	4.0	5.0
9	e1.0	e3.0	e2.6	e2.2	e1.0	e1.6	2.4	11	4.8	4.3	3.9	19
10	e1.0	e2.5	e2.8	e2.0	e1.0	e2.0	2.2	12	4.7	4.3	6.2	7.9
11	e1.0	e3.0	e3.0	e1.8	e1.0	2.2	2.1	13	3.9	4.2	12	14
12	e1.0	e3.0	e2.6	e1.6	e1.0	2.7	2.4	23	3.3	4.2	5.9	5.5
13	e1.0	e3.0	e2.0	e1.6	e1.0	2.5	2.1	20	3.1	4.2	4.9	4.8
14	e1.0	e3.0	e1.6	e1.4	e1.0	2.4	2.5	21	3.4	4.1	4.4	8.3
15	e1.0	e3.0	e1.4	e1.4	e1.0	2.4	2.3	16	4.4	4.0	3.7	41
16	e1.0	e2.0	e1.0	e1.0	e1.4	2.3	2.4	13	4.7	3.9	3.6	13
17	e1.0	e1.6	e1.0	e1.0	e1.2	2.5	2.5	8.7	4.3	3.9	3.5	6.8
18	e1.0	e3.0	e1.0	e1.0	e1.0	2.6	2.5	8.1	4.9	3.8	5.5	7.3
19	e1.0	2.4	e1.0	e1.0	e1.0	2.9	2.9	7.5	4.2	3.9	3.3	6.5
20	e1.0	2.2	e1.0	e1.0	e1.0	3.2	3.2	8.3	3.9	4.1	2.9	5.5
21	e1.0	2.2	e1.2	e1.0	e.80	3.2	3.7	10	3.8	4.0	3.3	5.2
22	e4.0	4.7	e1.4	e1.0	e.80	3.1	4.2	6.2	3.6	3.9	3.6	4.9
23	e3.0	2.9	e1.6	e1.2	e.90	3.1	5.6	4.8	3.6	3.9	9.4	4.7
24	e2.0	2.2	e1.8	e1.2	e1.0	2.8	4.6	4.4	3.5	3.8	3.8	4.6
25	e2.4	2.3	e2.0	e1.4	e1.0	2.5	3.6	4.6	4.3	3.6	3.2	4.4
26	e2.0	2.0	e2.0	e1.4	e1.0	2.6	3.6	4.5	4.9	3.6	3.5	21
27	e3.0	e1.7	e2.2	e1.4	e1.0	2.6	4.4	3.5	4.8	3.8	3.1	7.7
28	e4.0	e1.6	e2.0	e1.4	e1.0	2.7	5.4	3.1	4.8	14	3.4	5.7
29	e3.0	e1.4	e2.0	e1.6	---	2.7	7.1	2.8	4.8	6.2	2.9	5.3
30	e3.0	e1.2	e1.8	e1.6	---	2.6	7.8	2.7	4.7	4.4	2.6	5.0
31	e2.5	---	e1.8	e1.6	---	2.5	---	2.5	---	4.2	3.0	---
TOTAL	57.2	72.8	54.0	49.2	31.70	69.7	99.3	279.6	126.4	140.8	141.3	287.0
MEAN	1.85	2.43	1.74	1.59	1.13	2.25	3.31	9.02	4.21	4.54	4.56	9.57
MAX	4.0	4.7	3.0	3.0	1.8	3.2	7.8	23	4.9	14	12	41
MIN	1.0	1.2	1.0	1.0	.80	1.0	2.1	2.5	3.1	3.6	2.6	3.2
AC-FT	113	144	107	98	63	138	197	555	251	279	280	569

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-55, 1958-97, BY WATER YEAR (WY)

	MEAN	2.85	2.68	2.16	2.08	2.10	2.58	6.75	16.9	7.15	5.51	4.73	3.70
	MAX	9.10	6.54	6.25	6.05	6.70	6.59	28.9	50.9	34.5	25.4	15.2	9.72
(WY)	1984	1984	1984	1974	1984	1984	1984	1987	1958	1983	1983	1983	1983
MIN	.000	.000	.000	.045	.039	.052	.070	.21	.000	.000	.000	.000	.000
(WY)	1965	1965	1965	1965	1965	1965	1977	1977	1977	1955	1954	1955	1955

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1951-55, 1958-97

ANNUAL TOTAL	1078.39	1409.00	
ANNUAL MEAN	2.95	3.86	
HIGHEST ANNUAL MEAN			4.96
LOWEST ANNUAL MEAN			12.5
HIGHEST DAILY MEAN	13 Apr 27	41 Sep 15	205 May 18 1964
LOWEST DAILY MEAN	.82 Aug 13	.80 Feb 21	.00 Mar 12 1954
ANNUAL SEVEN-DAY MINIMUM	.87 Aug 8	.93 Feb 18	.00 Jun 17 1954
ANNUAL RUNOFF (AC-FT)	2140	2790	3590
10 PERCENT EXCEEDS	5.1	7.0	9.1
50 PERCENT EXCEEDS	3.0	2.9	2.9
90 PERCENT EXCEEDS	1.0	1.0	.57

e Estimated

ESCALANTE RIVER BASIN

119

09337500 ESCALANTE RIVER NEAR ESCALANTE, UT

LOCATION.--Lat 37°46'41", long 111°34'26", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, T. 35 S., R. 3 E., Garfield County, Hydrologic Unit 14070005, Bureau of Land Management, on left bank 150 ft downstream from Pine Creek and 1.5 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 and crest-stage gage. Elevation of gage, 5,670 ft above sea level, from topographic map. Prior to Apr. 30, 1913, staff at approximately same site at different datum.

REMARKS.--Records fair except those for discharges less than 2.0 ft³/s, those for Aug. 21-28, Sept. 2-7, and estimated daily discharges, which are poor. Considerable regulation of low flows by diversion into Wide Hollow Reservoir, an off-stream storage site about 4 mi upstream (capacity 2,320 acre-feet), and by diversion on Pine Creek, for irrigation of about 2,300 acres.

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 150 ft³/s on basis of slope-area measurements at gage heights, 4.60 ft, 5.50 ft, 7.34 ft, and 7.59 ft; minimum daily, 0.07 ft³/s July 11, 1990.

EXTREMES FOR CURRENT YEAR.-- Maximum discharge, 1,900 ft³/s, probably occurred Aug. 4, gage height, 7.43 ft, from rating curve extended above 150 ft³/s as explained above, and at gage heights 5.31 ft and 6.15 ft; minimum daily discharge, 0.22 ft³/s July 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.92	4.1	e.80	1.9	3.8	e3.5	12	.66	13	.42	e1.0	e1.5
2	15	3.6	e.80	1.9	4.3	4.0	14	.55	13	.36	e1.0	78
3	11	4.9	e.80	23	4.0	3.6	18	.71	12	.37	e1.0	19
4	e1.9	3.8	.74	e2.8	3.6	3.2	24	.54	11	.39	e130	26
5	e1.5	3.4	1.1	e2.0	3.8	3.1	19	.66	9.5	.44	e6.0	63
6	e1.3	2.8	1.9	e2.2	3.2	4.0	8.5	1.6	9.2	.47	e3.0	34
7	e1.2	1.9	2.7	e2.3	e3.0	3.5	15	5.8	9.3	.53	e2.0	41
8	e1.2	2.9	2.7	e2.2	e3.0	10	10	7.0	9.9	.38	e1.5	e130
9	e1.1	4.2	3.0	e2.1	e3.0	25	27	3.9	15	.35	e1.5	e40
10	e1.1	3.3	6.5	e2.0	e3.0	39	20	8.7	17	.85	e7.0	e10
11	e1.1	3.6	11	e1.8	e3.0	51	17	7.6	10	.93	e60	e20
12	e1.2	4.0	3.2	1.7	e3.0	58	19	16	8.3	.59	e6.0	e8.0
13	e1.2	e3.7	2.9	e1.6	e3.0	43	16	16	7.2	.32	e1.4	e7.0
14	e1.3	e3.7	1.9	e1.6	e3.0	33	6.1	16	6.2	.87	e1.3	e40
15	e1.3	e4.0	e1.5	e1.5	e3.2	27	22	13	5.5	.76	e1.3	e100
16	e1.2	3.0	.93	e1.5	3.8	20	13	6.2	4.3	.22	e1.2	e40
17	e1.2	2.1	e1.0	e1.5	3.4	7.4	18	4.1	3.0	.58	e1.1	12
18	e1.3	3.8	e.80	e1.5	3.5	3.3	2.8	4.1	2.0	.64	e3.0	20
19	e1.4	4.6	e.90	e1.6	3.7	3.4	.51	6.2	1.3	.31	e1.0	24
20	e1.3	4.3	e1.0	e1.8	3.4	5.0	.69	13	1.0	.35	e.90	12
21	e11	4.4	e1.3	e2.0	2.0	13	1.0	23	.94	.76	20	10
22	14	9.8	e1.4	2.3	e2.0	12	2.0	28	.82	.75	9.4	8.7
23	7.6	6.3	e1.6	e2.3	e2.0	2.8	2.0	50	.73	.42	52	8.4
24	6.8	3.7	e1.8	e2.3	e2.2	3.8	4.5	48	.73	.41	12	8.2
25	8.5	4.0	e2.0	2.4	e2.2	2.7	1.0	43	.70	.37	1.6	8.0
26	7.0	3.8	2.2	e2.4	2.5	3.1	.86	36	.73	.41	1.5	151
27	8.7	1.3	2.6	e2.5	2.2	2.3	1.2	30	.65	.47	23	27
28	14	.74	2.4	e2.8	2.9	14	1.3	25	.64	6.1	3.7	11
29	8.4	e.80	2.1	e2.8	---	12	1.2	21	.53	6.2	e2.0	8.9
30	8.1	e.80	2.0	e3.0	---	6.8	2.6	22	.50	e2.0	e2.0	7.5
31	4.3	---	2.0	3.7	---	9.1	---	18	---	e1.0	e3.0	---
TOTAL	147.12	107.34	67.57	87.0	85.7	431.6	300.26	476.32	174.67	29.02	361.40	974.2
MEAN	4.75	3.58	2.18	2.81	3.06	13.9	10.0	15.4	5.82	.94	11.7	32.5
MAX	15	9.8	11	23	4.3	58	27	50	17	6.2	130	151
MIN	.92	.74	.74	1.5	2.0	2.3	.51	.54	.50	.22	.90	1.5
AC-FT	292	213	134	173	170	856	596	945	346	58	717	1930

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943-55, 1973-97, BY WATER YEAR (WY)

MEAN	7.41	6.68	7.14	8.24	9.98	12.2	14.5	22.4	18.0	6.19	8.18	6.36
MAX	29.9	23.8	18.1	26.4	23.8	39.7	54.8	124	125	30.5	30.8	32.5
(WY)	1973	1988	1943	1950	1943	1989	1993	1973	1983	1944	1983	1997
MIN	.90	.80	.77	.96	1.21	.67	1.23	.88	.48	.47	.84	.73
(WY)	1991	1991	1991	1991	1993	1991	1990	1954	1990	1978	1978	1955

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR

ANNUAL TOTAL	1597.21
ANNUAL MEAN	4.36
HIGHEST ANNUAL MEAN	
LOWEST ANNUAL MEAN	
HIGHEST DAILY MEAN	133 Aug 26
LOWEST DAILY MEAN	.19 Aug 8
ANNUAL SEVEN-DAY MINIMUM	.22 Aug 5
ANNUAL RUNOFF (AC-FT)	3170
10 PERCENT EXCEEDS	11
50 PERCENT EXCEEDS	1.9
90 PERCENT EXCEEDS	.46

FOR 1997 WATER YEAR

ANNUAL TOTAL	3242.20
ANNUAL MEAN	8.88
HIGHEST ANNUAL MEAN	
LOWEST ANNUAL MEAN	
HIGHEST DAILY MEAN	151 Sep 26
LOWEST DAILY MEAN	.22 Jul 16
ANNUAL SEVEN-DAY MINIMUM	.42 Jul 3
ANNUAL RUNOFF (AC-FT)	6430
10 PERCENT EXCEEDS	22
50 PERCENT EXCEEDS	3.0
90 PERCENT EXCEEDS	.74

WATER YEARS 1943-55, 1973-97

ANNUAL TOTAL	10.8
ANNUAL MEAN	30.7
HIGHEST ANNUAL MEAN	1.49
LOWEST ANNUAL MEAN	300
HIGHEST DAILY MEAN	.07 Aug 16 1947
LOWEST DAILY MEAN	.18 Jul 11 1990
ANNUAL SEVEN-DAY MINIMUM	.18 Aug 26 1990
ANNUAL RUNOFF (AC-FT)	7800
10 PERCENT EXCEEDS	23
50 PERCENT EXCEEDS	4.7
90 PERCENT EXCEEDS	1.1

e Estimated

SAN JUAN RIVER BASIN

09378170 SOUTH CREEK ABOVE RESERVOIR NEAR MONTICELLO, UT

LOCATION.--Lat 37°50'48", long 109°22'08", in NE¹/₄SW¹/₄SW¹/₄ sec. 2, T. 34 S., R. 23 E., San Juan County, Hydrologic Unit 14080203, 200 ft upstream from west side of reservoir and 2 mi southwest of Monticello, Ut.

DRAINAGE AREA.--8.64 mi².

PERIOD OF RECORD.--October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,170 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 163 ft³/s Nov. 5, 1987, gage height, 4.17 ft; minimum daily, 0.01 ft³/s Aug. 19, 20, 1996.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 34 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 3	2243	*36	*1.88	Apr. 22	1830	34	1.84

Minimum daily discharge, 0.04 ft³/s Nov. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.05	e.04	e.07	.08	e.09	e.13	9.3	16	10	.67	.26	e.16
2	e.06	e.06	e.07	.08	e.09	e.12	9.5	14	11	.54	.18	e.14
3	e.54	e.06	e.07	e.08	e.09	e.13	14	14	5.9	.44	.20	e.14
4	e.17	e.05	e.07	e.08	e.08	e.13	19	15	5.3	.38	1.2	e.14
5	e.08	e.05	e.07	.09	e.08	e.11	10	18	4.5	.32	.49	e.14
6	e.07	e.05	e.09	.08	e.09	e.13	6.5	22	3.6	.29	.16	e.14
7	e.07	e.06	.08	e.08	e.08	e.13	5.8	27	2.8	.25	.14	e.14
8	e.07	e.06	.08	e.08	e.08	e.20	5.3	28	2.2	.27	.14	e.14
9	e.07	e.07	e.07	e.08	e.08	e.30	5.8	24	2.0	.29	.14	e.14
10	e.06	e.06	e.08	e.08	e.07	.58	5.4	20	2.2	.29	.15	e.20
11	e.06	e.09	.08	e.08	e.10	.98	4.2	18	1.7	.27	.11	e.14
12	e.06	e.06	e.08	e.08	e.09	1.4	3.2	18	1.5	.25	.11	e.14
13	e.06	e.06	.08	e.08	e.09	2.0	2.8	20	2.0	.26	.15	e.14
14	e.09	e.06	e.09	e.08	e.09	1.6	3.0	21	2.3	.27	.22	e.15
15	.11	e.06	e.08	e.08	e.09	1.8	4.9	21	1.8	.26	.21	e.30
16	.11	e.06	e.08	e.08	e.09	1.8	9.0	21	1.5	.22	.17	e.14
17	.11	e.06	e.07	e.08	e.12	1.5	13	19	1.7	.25	.14	e.14
18	.11	e.06	e.07	e.08	e.12	2.1	15	19	1.9	.25	.12	e.14
19	.11	e.07	e.07	e.08	e.12	5.1	18	18	1.6	.26	.13	.14
20	.11	e.06	e.07	e.08	e.11	8.6	19	16	1.5	.23	.12	.16
21	.11	e.06	e.09	e.08	e.11	10	21	15	1.5	.22	.12	.24
22	e.14	e.37	e.09	e.08	e.10	12	26	14	1.4	.26	.13	.16
23	e.08	.09	e.09	e.08	e.13	15	26	13	1.3	.27	.11	.15
24	e.07	e.08	e.07	e.08	e.13	13	20	13	1.2	.25	.12	.14
25	e.06	e.07	e.07	e.08	e.14	8.3	15	12	1.1	.22	.11	.14
26	e.07	e.07	e.07	e.08	e.13	9.0	14	10	.91	.23	.11	.22
27	e.06	e.08	.08	e.08	e.14	13	14	8.5	.72	.27	.31	.16
28	e.08	e.08	.08	e.08	e.14	16	16	7.3	.64	.41	.16	.14
29	e.06	e.09	.08	e.08	---	12	17	6.6	1.1	.30	.14	.16
30	e.05	e.08	.08	e.08	---	11	16	6.6	.87	.28	.14	.18
31	e.05	---	.08	e.08	---	11	---	8.7	---	.27	.29	---
TOTAL	3.00	2.27	2.40	2.49	2.87	159.14	367.7	503.7	77.74	9.24	6.28	4.76
MEAN	.097	.076	.077	.080	.10	5.13	12.3	16.2	2.59	.30	.20	.16
MAX	.54	.37	.09	.09	.14	16	26	28	11	.67	1.2	.30
MIN	.05	.04	.07	.08	.07	.11	2.8	6.6	.64	.22	.11	.14
AC-FT	6.0	4.5	4.8	4.9	5.7	316	729	999	154	18	12	9.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1997, BY WATER YEAR (WY)

	1987	1988	1988	1988	1986	1995	1993	1993	1995	1995	1987	1991
MEAN	.22	.69	.20	.18	.34	2.42	6.90	8.12	3.37	.71	.31	.30
MAX	.45	5.40	.64	.45	1.08	5.65	19.0	33.0	11.6	3.51	.52	.91
(WY)	1987	1988	1988	1988	1986	1995	1993	1993	1995	1995	1987	1991
MIN	.097	.076	.077	.075	.070	.080	.097	.074	.052	.14	.062	.075
(WY)	1997	1997	1997	1990	1993	1996	1996	1996	1996	1994	1996	1996

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1986 - 1997

ANNUAL TOTAL	43.58	1141.59	
ANNUAL MEAN	.12	3.13	
HIGHEST ANNUAL MEAN			1.98
LOWEST ANNUAL MEAN			5.89
HIGHEST DAILY MEAN	12 Jul 9	28 May 8	60 May 17 1993
LOWEST DAILY MEAN	.01 Aug 19	.04 Nov 1	.01 Aug 19 1996
ANNUAL SEVEN-DAY MINIMUM	.02 Aug 14	.05 Oct 30	.02 Aug 14 1996
ANNUAL RUNOFF (AC-FT)	86	2260	1440
10 PERCENT EXCEEDS	.14	14	6.2
50 PERCENT EXCEEDS	.08	.14	.23
90 PERCENT EXCEEDS	.05	.07	.08

e Estimated

SAN JUAN RIVER BASIN
09378630 RECAPTURE CREEK NEAR BLANDING, UT

121

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. Elevation of gage is 7,200 ft above sea level, from topographic map.

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

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. 20	1821	*18	*1.38	Apr. 29	0505	9.4	1.21
Apr. 4	0126	12	1.27	May 7	0308	12	1.28
Apr. 21	1903	12	1.27				

No flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	e.00	e.00	5.0	7.2	3.3	.08	.04	.04
2	.00	.00	.00	.00	e.00	e.00	4.9	6.7	3.2	.08	.03	.04
3	.00	.00	.00	e.00	e.00	e.00	5.6	6.5	2.6	.07	.03	.04
4	.00	.00	.00	e.00	e.00	e.00	8.8	7.7	2.2	.07	.60	.04
5	.00	.00	.00	e.00	e.00	e.00	5.8	9.4	1.8	.07	.14	.04
6	.00	.00	.00	e.00	e.00	e.00	4.5	11	1.5	.07	.07	.04
7	.00	.00	.00	e.00	e.00	e.00	3.4	12	1.3	.06	.06	.04
8	.00	.00	.00	e.00	e.00	e.01	3.1	10	1.1	.06	.06	.03
9	.00	.00	.00	e.00	e.00	e.04	3.3	8.3	.97	.06	.06	.03
10	.00	.00	.00	e.00	e.00	e.20	3.3	7.6	.91	.06	.09	.03
11	.00	.00	.00	e.00	e.00	e.40	2.8	7.1	.69	.06	.06	.03
12	.00	.00	.00	e.00	e.00	e2.8	2.7	7.7	.80	.06	.06	.03
13	.00	.00	.00	e.00	e.00	e2.6	2.4	8.7	.75	.05	.06	.03
14	.00	.00	.00	e.00	e.00	e2.5	2.0	8.7	.70	.05	.06	.03
15	.00	.00	.00	e.00	e.00	e.00	2.8	8.5	.66	.05	.06	.03
16	.00	.00	.00	e.00	e.00	3.1	3.1	8.6	.72	.04	.05	.03
17	.00	.00	.00	e.00	e.00	3.1	4.2	8.2	.41	.04	.06	.03
18	.00	.00	.00	e.00	e.00	4.3	5.7	7.7	.26	.04	.05	.03
19	.00	.00	.00	e.00	e.00	6.7	7.0	7.1	.23	.04	.05	.02
20	.00	.00	.00	e.00	e.00	9.9	8.7	5.7	.21	.05	.04	.02
21	.00	.00	.00	e.00	e.00	11	10	5.9	.18	.04	.04	.03
22	.00	.00	.00	e.00	e.00	11	10	5.3	.19	.04	.04	.02
23	.00	.00	.00	e.00	e.00	11	10	4.3	.21	.04	.04	.02
24	.00	.00	.00	e.00	e.00	8.1	8.5	4.1	.12	.03	.04	.02
25	.00	.00	.00	e.00	e.00	5.6	6.4	3.6	.11	.02	.04	.02
26	.00	.00	.00	e.00	e.00	5.4	5.5	2.7	.11	.03	.05	.02
27	.00	.00	.00	e.00	e.00	5.9	5.9	2.2	.11	.03	.05	.02
28	.00	.00	.00	e.00	e.00	6.3	7.9	2.1	.21	.11	.04	.02
29	.00	.00	.00	e.00	---	5.8	9.2	2.0	.15	.04	.04	.02
30	.00	.00	.00	e.00	---	5.4	7.8	2.1	.09	.05	.04	.02
31	.00	---	.00	e.00	---	5.4	---	3.0	---	.07	.04	---
TOTAL	0.00	0.00	0.00	0.00	0.00	119.35	169.7	201.7	25.79	1.66	2.19	0.86
MEAN	.000	.000	.000	.000	.000	3.85	5.66	6.51	.86	.054	.071	.029
MAX	.00	.00	.00	.00	.00	11	10	12	3.3	.11	.60	.04
MIN	.00	.00	.00	.00	.00	.00	2.0	2.0	.09	.02	.03	.02
AC-FT	.00	.00	.00	.00	.00	237	337	400	51	3.3	4.3	1.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1973	.18	4.77	1973	.000	1979
1988	.14	2.32	1988	.000	1977
1973	.054	.67	1973	.000	1977
1973	.037	.64	1973	.000	1968
1980	.12	.68	1980	.000	1977
1993	1.75	11.2	1993	.000	1977
1993	5.08	15.9	1993	.000	1977
1983	6.77	25.1	1983	.002	1977
1983	2.38	13.6	1983	.000	1977
1995	.17	1.00	1995	.000	1996
1968	.059	.73	1968	.000	1972
1988	.019	.085	1988	.000	1966

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1966 - 1997

ANNUAL TOTAL	5.77	521.25	
ANNUAL MEAN	.016	1.43	
HIGHEST ANNUAL MEAN			1.40
LOWEST ANNUAL MEAN			4.60
HIGHEST DAILY MEAN			.008
LOWEST DAILY MEAN			1977
ANNUAL SEVEN-DAY MINIMUM			57
ANNUAL RUNOFF (AC-FT)	11	1030	1010
10 PERCENT EXCEEDS	.04	6.3	4.2
50 PERCENT EXCEEDS	.00	.03	.03
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

SAN JUAN RIVER BASIN

09379500 SAN JUAN RIVER NEAR BLUFF, UT

LOCATION.--Lat 37°08'49", long 109°51'51", in SE¹/₄NE¹/₄SW¹/₄ 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 above sea level, 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. 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).

EXTREMES FOR PERIOD OF RECORD.--(water years 1914-17, 1927-97) 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)
May 23	1740	10,500	10.57	Sept. 22	1030	11,100	10.87
June 5	0246	*11,500	*11.10				

Minimum discharge, 345 ft³/s Dec. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	721	1550	1000	672	1030	1300	3310	2400	8230	4640	6260	1420
2	702	1430	894	659	988	942	3280	2270	9600	4650	3960	3150
3	2070	1390	800	663	1040	817	3210	2210	10600	4030	2720	2550
4	4270	1320	715	685	1020	798	3280	2060	11200	3620	3480	2090
5	3640	1290	672	873	953	774	5110	1890	11300	3470	4620	1590
6	2450	1290	680	916	888	796	4490	1940	10900	3330	6270	1740
7	1730	1120	699	784	890	778	3660	2340	10800	3220	5850	1480
8	1550	928	757	717	834	961	3380	2910	9990	3100	3550	1250
9	1430	851	766	645	760	1050	3230	3160	10300	2570	2600	990
10	1310	828	752	662	703	1120	3110	3010	9550	2320	2710	920
11	1210	783	797	611	675	1310	2820	2810	8230	2250	2990	925
12	1240	764	1070	617	671	1490	2270	2600	7550	2110	2780	1700
13	1230	768	1180	673	686	1710	1950	2710	7900	2080	3110	1700
14	1180	749	1050	703	689	1990	1690	3610	8100	1990	2320	1430
15	1120	773	896	700	697	2280	1600	4860	7780	2000	2030	2390
16	1090	904	802	661	680	2360	1550	5950	7460	1870	1860	5200
17	1100	910	707	559	665	2420	1530	6980	7300	1530	1710	3050
18	1090	921	614	613	673	2600	1550	8010	6740	1430	1600	2330
19	1120	838	631	655	712	3250	1650	8350	7120	1350	1500	1850
20	1110	804	582	548	772	4280	1780	8500	7420	1320	1380	1630
21	1080	806	458	499	811	4770	2000	8680	7610	1470	1220	2580
22	1090	788	664	673	862	5110	2270	9220	7740	1490	1060	9560
23	1120	1080	849	865	892	5080	2640	10300	7530	1580	867	8190
24	1120	997	809	916	839	4910	2940	10200	7210	1590	861	5260
25	1130	1020	753	980	823	4690	3130	9370	6460	1640	871	3920
26	1100	946	714	1060	806	4060	3160	9160	5830	1610	821	3440
27	1120	841	695	1530	807	3600	2630	8600	5140	1520	1550	3120
28	1290	795	739	1620	899	3450	2310	7990	4810	1480	2590	2710
29	2310	846	691	1500	---	3460	2240	7570	4600	1600	1620	2380
30	2530	1070	681	1380	---	3450	2360	7260	4580	2560	1330	2120
31	1820	---	686	1110	---	3370	---	7270	---	3560	1190	---
TOTAL	47073	29400	23803	25749	22765	78976	80130	174190	239580	72980	77280	82665
MEAN	1518	980	768	831	813	2548	2671	5619	7986	2354	2493	2756
MAX	4270	1550	1180	1620	1040	5110	5110	10300	11300	4650	6270	9560
MIN	702	749	458	499	665	774	1530	1890	4580	1320	821	920
AC-FT	93370	58310	47210	51070	45150	156600	158900	345500	475200	144800	153300	164000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915-17, 1927-97, BY WATER YEAR (WY)

	1915	1927	1935	1943	1951	1959	1967	1975	1983	1991	1997	
MEAN	1555	1237	1105	1124	1443	1913	3522	5344	5739	2580	1766	1633
MAX	10650	4435	3821	3374	3683	6209	10120	21520	15380	9212	9335	11870
(WY)	1942	1987	1966	1986	1987	1916	1942	1941	1941	1957	1929	1927
MIN	205	345	408	335	519	463	399	339	556	236	80.4	64.5
(WY)	1957	1935	1957	1931	1964	1964	1977	1977	1977	1963	1939	1956

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1915-17, 1927-97

	1996	1997	1915-17	1927-97
ANNUAL TOTAL	399404	954591		
ANNUAL MEAN	1091	2615	2308	
HIGHEST ANNUAL MEAN			5859	1941
LOWEST ANNUAL MEAN			844	1977
HIGHEST DAILY MEAN	4270	11300	52000	Jun 30 1927
LOWEST DAILY MEAN	235	458	.00	Jul 3 1934
ANNUAL SEVEN-DAY MINIMUM	244	601	.00	Jul 3 1934
ANNUAL RUNOFF (AC-FT)	792200	1893000	1672000	
10 PERCENT EXCEEDS	2550	7260	5970	
50 PERCENT EXCEEDS	802	1550	1330	
90 PERCENT EXCEEDS	447	700	500	

SAN JUAN RIVER BASIN
09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued
(National stream-quality accounting network station)

123

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.

INSTRUMENTATION.--Water-quality monitor since October 1980.

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 recorded, 1,410 microsiemens Feb. 18; minimum recorded, 240 microsiemens May 18.

WATER TEMPERATURES: Maximum recorded, 28.7°C Aug. 23; minimum recorded, 1.1°C Jan. 15, 23.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
DEC 10...	1045	720	970	8.4	10.5	4.5	21	10.7	96	656	360	230
FEB 26...	1230	770	1010	8.3	4.5	3.5	500	11.1	97	659	380	220
MAR 25...	1300	4470	510	8.2	8.5	8.0	860	10.0	98	657	180	82
APR 30...	1145	2420	650	8.3	17.5	13.0	820	8.8	97	656	230	110
MAY 22...	1130	8800	315	8.1	24.5	13.0	160	8.8	97	660	120	40
29...	1340	7600	340	8.3	26.0	14.0	78	8.7	98	660	130	37
JUN 12...	1130	7490	340	8.2	27.0	15.5	100	8.5	99	660	130	41
30...	1300	4530	310	8.2	25.5	18.0	38	7.7	96	650	110	37
JUL 10...	1230	2500	380	8.3	27.0	22.0	22	7.6	102	655	140	61
24...	1430	1660	560	8.5	29.0	25.5	210	6.6	94	660	190	95
AUG 27...	1330	1040	600	8.2	29.0	23.0	1800	6.6	90	656	210	94
(a)27...	1340	1040	600	8.2	29.0	23.0	2000	6.6	90	656	210	98
SEP 24...	1300	5210	415	8.2	19.0	16.0	2000	7.3	86	655	120	39

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
DEC 10...	99	28	60	26	1	2.6	6	149	132	300	21
FEB 26...	100	32	68	28	2	2.8	0	193	158	360	22
MAR 25...	49	15	25	23	0.8	2.4	0	126	103	140	10
APR 30...	62	17	37	26	1	2.4	0	146	120	180	12
MAY 22...	34	7.3	14	21	0.6	1.5	0	93	76	64	3.8
29...	38	8.1	16	21	0.6	1.6	0	112	92	73	4.6
JUN 12...	38	7.6	15	20	0.6	1.7	0	103	84	72	4.2
30...	33	6.7	15	22	0.6	1.3	0	91	74	70	4.7
JUL 10...	43	8.5	20	23	0.7	1.7	0	100	82	91	6.3
24...	57	12	34	27	1	2.4	2	117	100	150	12
AUG 27...	59	14	35	27	1	3.0	0	136	111	170	12
(a)27...	60	14	36	27	1	3.1	0	136	111	170	12
SEP 24...	39	6.0	30	34	1	2.5	0	103	85	110	5.2

(a) Concurrent replicate

SAN JUAN RIVER BASIN
09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	FLUORIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
DEC 10...	0.30	5.7	648	600	0.88	1260	0.470	2.1	0.010	0.03	0.480
FEB 26...	0.40	7.7	746	693	1.01	1550	0.720	3.2	0.010	0.03	0.730
MAR 25...	0.20	8.0	357	314	0.49	4310	--	--	<0.010	--	0.360
APR 30...	0.27	8.0	432	397	0.59	2820	--	--	<0.010	--	0.373
MAY 22...	0.20	8.0	197	180	0.27	4680	--	--	<0.010	--	0.143
29...	0.19	9.2	215	207	0.29	4410	--	--	<0.010	--	0.164
JUN 12...	0.23	8.0	213	198	0.29	4310	--	--	<0.010	--	0.142
30...	0.25	6.9	205	183	0.28	2510	--	--	<0.010	--	0.108
JUL 10...	0.26	7.3	249	228	0.34	1680	--	--	<0.010	--	0.092
24...	0.33	5.4	365	336	0.50	1640	--	--	<0.010	--	0.101
AUG 27...	0.32	7.3	402	368	0.55	1130	0.283	1.3	0.010	0.03	0.293
(a)27...	0.31	7.5	206	369	0.28	578	0.320	1.4	0.010	0.03	0.330
SEP 24...	0.36	6.4	266	248	0.36	3740	--	--	<0.010	--	0.328
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	PHOS- PHORUS ORGANIC TOTAL (MG/L AS P) (00670)
DEC 10...	0.030	0.04	0.17	0.20	<0.20	0.68	0.040	<0.010	<0.001	--	0.04
FEB 26...	0.030	0.04	1.4	1.4	<0.20	2.1	0.480	<0.010	<0.001	--	0.48
MAR 25...	<0.015	--	3.3	3.3	<0.20	3.7	1.90	<0.010	0.012	0.04	1.9
APR 30...	<0.015	--	1.2	1.2	<0.20	1.6	0.882	<0.010	0.019	0.06	0.88
MAY 22...	<0.015	--	--	<0.20	<0.20	--	0.056	0.018	0.007	0.02	0.06
29...	0.033	0.04	0.45	0.49	<0.20	0.65	0.296	<0.010	0.006	0.02	0.30
JUN 12...	<0.015	--	0.54	0.54	<0.20	0.68	0.304	<0.010	0.007	0.02	0.30
30...	<0.015	--	--	<0.20	<0.20	--	0.099	0.012	0.006	0.02	0.10
JUL 10...	<0.015	--	--	<0.20	<0.20	--	0.052	<0.010	0.002	0.01	0.05
24...	<0.015	--	0.95	0.95	<0.20	1.0	0.354	0.212	0.002	0.01	0.35
AUG 27...	<0.015	--	5.6	5.6	<0.20	5.9	2.09	<0.010	0.011	0.03	2.1
(a)27...	<0.015	--	6.1	6.1	<0.20	6.4	2.22	<0.010	0.011	0.03	2.2
SEP 24...	<0.020	--	4.0	4.0	<0.10	4.3	1.46	<0.010	0.009	0.03	1.5
DATE	TIME	ALUM- INIUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	
DEC 10...	1045	6.0	2.0	<1	74	<1.0	<1.0	2.0	<1.0	13	
FEB 26...	1230	2.0	<1.0	<1	83	<1.0	<1.0	2.0	<1.0	3.0	
MAR 25...	1300	2.0	<1.0	<1	59	<1.0	<1.0	<1.0	<1.0	3.0	
APR 30...	1145	2.4	<1.0	1	91	<1.0	<1.0	2.5	<1.0	1.7	
MAY 22...	1130	6.5	<1.0	<1	60	<1.0	<1.0	1.2	<1.0	2.5	
29...	1340	7.7	<1.0	<1	58	<1.0	<1.0	1.5	<1.0	1.2	
JUN 12...	1130	7.0	<1.0	1	52	<1.0	<1.0	<1.0	<1.0	1.9	
30...	1300	15	<1.0	<1	59	<1.0	<1.0	<1.0	<1.0	1.5	
JUL 10...	1230	14	<1.0	<1	71	<1.0	<1.0	1.9	<1.0	1.6	
24...	1430	8.8	<1.0	<1	94	<1.0	<1.0	2.0	<1.0	2.1	
AUG 27...	1330	3.3	<1.0	2	126	<1.0	<1.0	<1.0	<1.0	1.9	
(a)27...	1340	3.6	<1.0	2	129	<1.0	<1.0	1.1	<1.0	1.8	
SEP 24...	1300	3.2	<1.0	<1	62	<1.0	<1.0	<1.0	<1.0	1.8	
(a) Concurrent replicate											

(a) Concurrent replicate

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
DEC 10...	5.0	<1.0	39	5.0	2.0	2.0	<1.0	1300	<6	5.0
FEB 26...	<3.0	<1.0	35	1.0	2.0	1.0	<1.0	1300	<6	4.0
MAR 25...	<3.0	<1.0	17	1.0	2.0	<1.0	<1.0	640	<6	3.0
APR 30...	<3.0	<1.0	19	<1.0	1.4	<1.0	<1.0	871	<6	<1.0
MAY 22...	7.0	<1.0	12	<1.0	1.2	<1.0	<1.0	400	<6	1.7
29...	<3.0	<1.0	15	<1.0	1.1	<1.0	<1.0	409	<6	1.3
JUN 12...	<3.0	<1.0	15	<1.0	1.2	<1.0	<1.0	398	<6	1.5
30...	6.6	<1.0	14	1.0	1.1	<1.0	<1.0	364	<6	1.5
JUL 10...	<3.0	<1.0	19	<1.0	1.2	<1.0	<1.0	491	<6	<1.0
24...	<3.0	<1.0	25	<1.0	1.8	1.2	<1.0	841	<6	<1.0
AUG 27...	3.0	<1.0	24	<1.0	1.8	1.1	<1.0	1020	<6	2.5
(a)27...	<3.0	<1.0	24	27	1.9	1.2	<1.0	1040	<6	2.1
SEP 24...	4.8	<1.0	11	<1.0	1.7	<1.0	<1.0	599	<6	1.1

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B) (01020)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
DEC 10...	1045	66	2
FEB 26...	1230	59	2
MAR 25...	1300	27	1
APR 30...	1145	40	1
MAY 22...	1130	20	<1
29...	1340	23	<1
JUN 12...	1130	21	<1
30...	1300	20	<1
JUL 10...	1230	30	<1
24...	1430	43	--
AUG 27...	1330	49	<1
(a)27...	1340	51	<1
SEP 24...	1300	24	<1

DATE	TIME	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
DEC 10...	1045	3.0
FEB 26...	1230	3.0
MAR 25...	1300	2.0
APR 30...	1145	2.2
MAY 22...	1130	<1.0
29...	1340	1.0
JUN 12...	1130	<1.0
30...	1300	<1.0
JUL 10...	1230	1.0
24...	1430	1.6
AUG 27...	1330	2.5
(a)27...	1340	2.6
SEP 24...	1300	1.5

(a) Concurrent replicate

SAN JUAN RIVER BASIN
09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

						CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)		CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)					
				DATE	TIME								
				DEC 10...	1045	2.2		0.80					
				FEB 26...	1230	3.4		>5.0					
				MAR 25...	1300	3.8		3.6					
				APR 30...	1145	2.8		2.9					
				MAY 22...	1130	3.2		4.3					
				29...	1340	3.3		3.6					
				JUN 12...	1130	2.8		1.1					
				30...	1300	2.7		1.0					
				JUL 10...	1230	2.2		0.90					
				24...	1430	2.6		4.6					
				AUG 27...	1330	10		>20					
				(a)27...	1340	5.2		>10					
				SEP 24...	1300	3.7		>10					
DATE	TIME	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	
DEC 10...	1045	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	
FEB 26...	1230	0.010	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	
MAR 25...	1300	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	
APR 30...	1145	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	
MAY 22...	1130	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	E0.004	<0.004	<0.010	
29...	1340	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	
JUN 12...	1130	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	
30...	1300	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.010	<0.006	<0.002	<0.004	<0.010	
JUL 10...	1230	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	
24...	1430	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	
AUG 27...	1330	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	
(a)27...	1340	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	
SEP 24...	1300	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	0.082	
(a) Concurrent replicate													

(a) Concurrent replicate

SAN JUAN RIVER BASIN
09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

127

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)
DEC 10...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
FEB 26...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
MAR 25...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
APR 30...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
MAY 22...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
29...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
JUN 12...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
30...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.009	<0.002
JUL 10...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
24...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
AUG 27...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
(a)27...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002
SEP 24...	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002

DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	TERBUTH YLAZINE SURROGT WAT FLT 0.7 U GF, REC PERCENT (91064)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	SET NUMBER SCHED- ULE 2001 (NO.) (99818)	SAMPLE VOLUME SCHED- ULE 2001 (ML) (99856)
DEC 10...	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	83.5	95.2	64.7	3863	819
FEB 26...	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	88.8	99.1	80.3	4057	862
MAR 25...	E0.001	<0.004	<0.003	<0.013	<0.001	<0.005	99.1	114	98.2	4130	884
APR 30...	E0.002	<0.004	<0.003	<0.013	<0.001	<0.005	90.7	95.7	97.1	4243	719
MAY 22...	E0.001	<0.004	<0.003	<0.013	<0.001	<0.005	88.4	104	96.4	4347	900
29...	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	106	119	111	4374	869
JUN 12...	<0.002	<0.004	<0.003	<0.013	E0.205	<0.005	107	124	108	4436	917
30...	E0.001	<0.004	<0.003	<0.013	--	<0.005	94.8	111	105	4510	862
JUL 10...	<0.002	<0.004	<0.003	<0.013	E0.106	<0.005	104	124	138	4571	833
24...	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	130	139	118	4626	980
AUG 27...	E0.002	<0.004	<0.003	<0.013	<0.001	<0.005	97.5	104	95.0	4761	833
(a)27...	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	85.8	105	89.2	4759	833
SEP 24...	E0.001	<0.004	<0.003	<0.013	<0.001	<0.005	105	129	105	4871	819

(a) Concurrent replicate

SAN JUAN RIVER BASIN

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	
		CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)
DEC 10...	1045	<0.007	<0.002	<0.005	<0.018	E0.002	<0.004	<0.003	<0.002	<0.006	
FEB 26...	1230	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
MAR 25...	1300	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
APR 30...	1145	<0.007	<0.002	E0.003	E0.007	E0.005	<0.004	<0.003	<0.002	<0.006	
MAY 22...	1130	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
MAY 29...	1340	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
JUN 12...	1130	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
JUN 30...	1300	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
JUL 10...	1230	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
JUL 24...	1430	<0.007	<0.002	<0.005	E0.009	E0.004	<0.004	<0.003	<0.002	<0.006	
AUG 27...	1330	<0.007	<0.002	<0.005	E0.005	<0.004	<0.004	<0.003	<0.002	<0.006	
(a)27...	1340	<0.007	<0.002	<0.005	<0.018	E0.001	<0.004	<0.003	<0.002	<0.006	
SEP 24...	1300	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	
DATE		CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)
DEC 10...		<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	<0.011	<0.002	<0.002
FEB 26...		<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	0.009	<0.002	<0.002
MAR 25...		<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002
APR 30...		<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	0.006	<0.002	<0.002
MAY 22...		<0.004	<0.004	<0.001	E0.000	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002
MAY 29...		<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002
JUN 12...		<0.004	<0.004	<0.001	<0.002	E0.004	<0.004	<0.002	<0.001	<0.005	<0.002
JUN 30...		<0.004	<0.004	<0.001	<0.002	0.006	<0.004	<0.002	<0.003	<0.002	<0.002
JUL 10...		<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	E0.003	<0.002	<0.002
JUL 24...		<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	0.006	<0.002	<0.002
AUG 27...		<0.004	<0.004	<0.001	<0.002	0.013	<0.004	<0.002	0.005	<0.002	<0.002
(a)27...		<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002
SEP 24...		<0.004	<0.004	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002
(a) Concurrent replicate											

(a) Concurrent replicate

129

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	---	---	---	---	---	---	990	970	978
2	---	---	---	---	---	---	---	---	---	990	970	980
3	---	---	---	---	---	---	---	---	---	1000	980	992
4	---	---	---	---	---	---	---	---	---	1000	980	989
5	---	---	---	---	---	---	---	---	---	1010	990	995
6	---	---	---	---	---	---	---	---	---	1040	1000	1020
7	---	---	---	---	---	---	---	---	---	1060	1020	1040
8	---	---	---	---	---	---	---	---	---	1040	1020	1030
9	---	---	---	---	---	---	---	---	---	1030	1000	1020
10	---	---	---	---	---	---	---	---	---	1020	990	1010
11	---	---	---	---	---	---	1020	950	976	1010	1000	1000
12	---	---	---	---	---	---	1140	950	1030	1010	990	996
13	---	---	---	---	---	---	1140	960	1050	1010	990	996
14	---	---	---	---	---	---	975	920	949	1000	990	997
15	---	---	---	---	---	---	950	920	940	1020	990	1000
16	---	---	---	---	---	---	950	920	939	1010	999	1000
17	---	---	---	---	---	---	950	920	934	1010	990	1000
18	---	---	---	---	---	---	940	930	933	1010	990	1000
19	---	---	---	---	---	---	940	920	932	1010	990	999
20	---	---	---	---	---	---	940	920	931	1010	990	1000
21	---	---	---	---	---	---	930	910	922	1010	990	1000
22	---	---	---	---	---	---	930	910	918	1010	990	1010
23	---	---	---	---	---	---	920	880	898	1000	970	990
24	---	---	---	---	---	---	---	---	---	971	940	961
25	---	---	---	---	---	---	---	---	---	950	930	944
26	---	---	---	---	---	---	---	---	---	940	920	928
27	---	---	---	---	---	---	---	---	---	940	910	918
28	---	---	---	---	---	---	---	---	---	910	900	904
29	---	---	---	---	---	---	---	---	---	910	870	894
30	---	---	---	---	---	---	---	---	---	950	900	917
31	---	---	---	---	---	---	980	950	972	980	920	948
MONTH	---	---	---	---	---	---	---	---	---	1060	870	982
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	980	950	968	---	---	---	---	---	---	---	---	---
2	1000	960	982	---	---	---	---	---	---	---	---	---
3	1020	980	993	---	---	---	---	---	---	---	---	---
4	1030	990	1010	---	---	---	---	---	---	---	---	---
5	1030	1000	1020	---	---	---	---	---	---	---	---	---
6	1030	1010	1020	---	---	---	---	---	---	---	---	---
7	1030	1010	1020	---	---	---	---	---	---	---	---	---
8	1030	1000	1020	---	---	---	---	---	---	---	---	---
9	1030	1000	1020	---	---	---	---	---	---	---	---	---
10	1040	1000	1020	---	---	---	---	---	---	---	---	---
11	1040	1010	1030	---	---	---	---	---	---	---	---	---
12	1040	1000	1020	---	---	---	---	---	---	---	---	---
13	1040	1000	1020	---	---	---	---	---	---	---	---	---
14	1060	1000	1030	---								

SAN JUAN RIVER BASIN

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS. WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

[illegible]

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

[illegible]

SAN JUAN RIVER BASIN
09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

131

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	5.3	---	---	---	---	---	9.0	---	---	15.5	14.2	14.8
2	5.7	---	---	---	---	---	11.3	---	---	14.4	12.5	13.6
3	5.6	---	---	---	---	---	10.7	---	---	15.2	12.5	13.7
4	4.7	---	---	---	---	---	10.6	---	---	16.3	13.7	14.9
5	4.7	---	---	---	---	---	8.9	---	---	18.1	15.2	16.3
6	4.6	3.2	4.1	---	---	---	7.3	---	---	19.4	16.7	17.9
7	3.4	---	---	---	---	---	---	---	---	19.7	17.5	18.7
8	3.4	---	---	---	---	---	10.2	---	---	19.6	17.6	18.5
9	3.7	---	---	---	---	---	10.6	---	---	18.5	16.2	17.2
10	4.5	---	---	---	---	---	11.2	---	---	17.9	15.5	16.7
11	5.5	---	---	---	---	---	10.6	---	---	18.7	16.0	17.2
12	5.1	---	---	---	---	---	9.9	---	---	19.1	17.0	18.1
13	5.5	---	---	---	---	---	9.0	---	---	19.1	17.0	18.1
14	5.5	---	---	---	---	---	10.6	---	---	19.0	16.6	17.8
15	5.8	---	---	---	---	---	12.4	---	---	18.1	15.6	17.0
16	5.4	---	---	---	---	---	14.3	---	---	17.6	15.3	16.4
17	6.8	---	---	---	---	---	15.2	---	---	16.5	14.6	15.6
18	8.4	---	---	---	---	---	16.4	---	---	16.0	13.5	14.9
19	7.6	---	---	---	---	---	16.3	---	---	15.5	13.9	14.9
20	6.6	---	---	---	---	---	16.6	14.9	15.8	15.5	13.7	14.7
21	6.2	---	---	---	---	---	16.4	15.0	15.8	14.7	13.3	13.8
22	4.8	---	---	---	---	---	16.1	14.3	15.3	14.3	12.8	13.5
23	5.0	---	---	---	---	---	16.0	13.3	14.6	14.2	12.0	13.2
24	5.1	---	---	---	---	---	13.3	11.7	12.4	---	---	---
25	5.0	---	---	---	---	---	12.8	11.1	12.0	---	---	---
26	---	---	---	9.9	---	---	13.9	11.7	12.7	---	---	---
27	---	---	---	10.8	---	---	14.4	12.1	13.1	---	---	---
28	---	---	---	11.6	---	---	15.9	14.1	14.8	---	---	---
29	---	---	---	11.8	---	---	15.7	14.4	14.9	---	---	---
30	---	---	---	11.4	---	---	15.5	13.1	14.2	17.0	14.6	15.7
31	---	---	---	10.1	---	---	---	---	---	18.1	14.9	16.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	18.0	15.6	17.1	21.3	17.8	19.6	24.1	21.2	22.8	25.1	22.9	23.9
2	17.9	15.1	16.5	21.3	17.7	19.5	24.0	22.3	23.2	24.6	22.6	23.7
3	16.9	14.2	15.7	21.4	17.6	19.5	25.4	22.3	23.5	25.0	23.4	24.3
4	16.8	13.9	15.4	21.9	18.5	20.2	25.4	23.7	24.5	25.3	23.8	24.5
5	16.7	13.9	15.4	22.5	18.9	20.7	25.0	22.9	23.8	25.7	23.4	24.6
6	16.7	14.6	15.5	23.0	19.6	21.4	25.0	22.7	24.0	25.6	23.6	24.4
7	15.6	14.1	14.7	23.6	20.5	22.1	24.8	22.6	23.7	25.1	23.0	24.2
8	14.8	12.4	13.7	23.5	20.7	22.2	25.0	22.5	24.0	24.9	23.0	24.2
9	14.6	12.5	13.5	24.1	21.2	22.8	25.0	22.9	24.2	25.2	23.3	24.3
10	15.8	13.0	14.1	24.0	21.9	23.0	24.9	22.6	23.9	24.8	23.0	24.1
11	16.7	14.0	15.5	23.4	21.2	22.1	24.1	22.1	23.1	24.6	20.6	23.6
12	16.9	15.0	16.2	23.4	21.2	22.2	24.9	22.6	23.7	24.3	20.2	22.0
13	16.8	15.7	16.3	24.5	21.5	23.0	24.9	22.1	23.5	23.3	20.3	22.4
14	16.3	15.3	15.9	25.1	22.1	23.7	24.2	22.1	23.4	23.8	20.3	21.9
15	16.2	14.2	15.4	26.1	22.4	24.3	24.3	21.9	23.2	23.5	20.7	22.3
16	16.6	14.2	15.1	26.1	23.8	25.2	24.7	22.3	23.6	21.7	19.9	20.9
17	17.9	15.0	16.4	26.8	24.1	25.6	24.9	22.2	23.7	23.1	20.4	21.6
18	18.9	15.7	17.5	26.8	24.8	25.6	25.8	23.1	24.3	23.1	21.5	22.4
19	19.0	16.7	18.1	26.5	24.3	25.4	26.3	23.3	24.9	22.7	20.4	21.6
20	19.0	16.3	17.7	27.2	25.0	26.2	27.1	23.6	25.3	22.6	20.5	21.8
21	18.5	16.0	17.4	26.9	24.9	25.8	26.7	24.3	25.4	22.4	14.7	20.6
22	18.2	15.9	17.3	27.0	25.0	25.9	27.7	24.7	26.2	18.4	14.5	16.6
23	18.3	15.7	17.2	27.4	25.6	26.6	28.7	25.3	27.1	17.6	15.1	16.6
24	18.4	16.0	17.5	27.7	25.5	26.5	28.2	25.2	26.8	17.6	15.6	16.7
25	19.3	16.3	17.9	27.6	25.1	26.4	27.2	25.3	26.2	18.0	16.3	17.2
26	19.7	16.7	18.5	27.3	24.5	25.5	26.7	25.2	26.0	18.9	17.6	18.1
27	20.5	17.8	19.1	26.2	23.4	24.6	25.7	22.3	24.2	20.7	17.6	18.9
28	20.4	17.5	19.1	26.2	24.8	25.4	25.5	22.5	24.3	20.7	18.5	19.6
29	20.8	17.3	19.1	25.9	23.4	24.7	25.1	23.2	24.0	20.6	18.3	19.4
30	20.8	17.7	19.5	25.8	23.2	24.4	24.2	23.0	23.6	20.6	18.5	19.7
31	---	---	---	24.1	22.0	22.9	24.4	22.7	23.5	---	---	---
MONTH	20.8	12.4	16.6	27.7	17.6	23.6	28.7	21.2	24.3	25.7	14.5	21.5

SAN JUAN RIVER BASIN

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SUSPENDED SEDIMENT DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI- MENT, SEDI- MENT, SUS- PENDE (MG/L) (80154)	DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
DEC						
10...	1120	720	4.5	--	66	128
FEB						
26...	1300	770	3.5	--	1090	2260
26...	1301	770	3.5	97	1070	2220
MAR						
25...	1350	4470	8.0	58	5140	62000
25...	1351	4470	8.0	--	5300	64000
APR						
30...	1230	2420	13.0	--	3230	21100
30...	1231	2420	13.0	63	3530	23100
MAY						
22...	1215	8800	13.0	27	3410	81000
22...	1216	8800	13.0	--	3010	71500
29...	1430	7600	14.0	27	1600	32700
29...	1431	7600	14.0	--	1680	34500
JUN						
12...	1200	7490	15.5	31	1310	26500
12...	1201	7490	15.5	--	1320	26600
30...	1330	4530	18.0	--	1060	13000
30...	1331	4530	18.0	17	976	11900
JUL						
10...	1315	2500	22.0	--	1340	9020
10...	1316	2500	22.0	29	1310	8840
24...	1330	1660	25.5	--	547	2450
24...	1331	1660	25.5	87	551	2470
AUG						
27...	1400	1040	23.0	--	4690	13200
27...	1401	1040	23.0	--	5710	16000
27...	1402	1040	23.0	--	5400	15200
27...	1403	1040	23.0	--	5240	14700
27...	1404	1040	23.0	--	5450	15300
27...	1405	1040	23.0	--	5340	15000
(a)27...	1415	1040	23.0	95	4770	13400
(a)27...	1416	1040	23.0	85	5390	15100
(a)27...	1417	1040	23.0	86	5680	15900
(a)27...	1418	1040	23.0	84	6150	17300
(a)27...	1419	1040	23.0	85	7290	20500
(a)27...	1420	1040	23.0	86	5360	15100
SEP						
24...	1400	5210	16.0	--	10100	143000
24...	1401	5210	16.0	71	9360	132000

(a) Concurrent replicate

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, on left bank at upstream side of bridge 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 crest-stage gage. Elevation of gage is 5,060 ft above sea level, from topographic map. A crest-stage gage was in operation at this site from July 22, 1959, to Sept. 30, 1968 at different datum. July 6, 1979, to Sept. 18, 1984, water-stage recorder at same site, different datum.

REMARKS.--Records poor. Several diversions above station for irrigation and stock watering.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,030 ft³/s Sept. 8, 1961, gage height, 8.39 ft, from rating curve extended above 31 ft³/s on basis of slope area measurement at gage height, 7.09 ft; minimum daily discharge, 3.0 ft³/s June 15, 1986, July 20, 1994, and Sept. 1-3, 1995.

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)
Jan. 3	1415	*2,300	*7.97	Sept. 15	0945	279	4.16
Mar. 12	2315	203	3.50	Sept. 26	1115	225	3.75
Aug. 10	1030	597	5.99				

Minimum daily discharge, 4.6 ft³/s June 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	8.8	11	8.7	15	15	19	8.4	5.4	5.2	e6.4	8.1
2	8.0	8.8	9.6	9.2	14	16	18	8.4	5.5	5.3	e6.5	9.2
3	6.4	10	12	256	15	16	18	8.0	4.6	5.0	e6.5	9.7
4	6.5	8.5	10	e100	16	17	21	7.1	5.2	5.0	e6.6	10
5	6.4	8.7	11	e60	15	16	20	6.6	5.2	5.5	7.7	9.4
6	5.9	8.8	12	e34	14	18	17	6.3	5.0	5.1	7.3	10
7	5.2	8.7	11	e20	15	19	17	6.8	5.6	5.5	6.2	11
8	5.1	9.7	11	e12	14	21	15	6.5	5.9	5.5	6.0	11
9	5.4	8.7	11	e9.7	14	31	15	6.5	5.0	5.7	6.4	17
10	5.6	8.8	12	9.4	13	43	15	6.6	5.3	5.3	106	11
11	5.8	8.9	13	10	12	63	14	6.6	5.3	5.8	19	15
12	5.9	8.5	19	14	13	75	16	6.2	5.3	5.9	12	12
13	6.0	8.6	9.2	16	10	80	16	6.3	5.5	5.7	11	13
14	6.0	8.8	8.2	15	10	63	18	6.7	5.4	5.7	10	37
15	6.3	9.2	8.4	13	11	53	15	6.2	6.4	5.8	10	188
16	5.8	9.1	9.0	14	12	39	15	5.9	6.3	5.9	11	81
17	5.6	8.8	9.8	18	13	48	15	6.0	5.1	6.1	8.9	61
18	5.9	8.8	11	18	12	41	13	6.2	4.6	5.8	8.6	64
19	6.0	8.4	11	17	11	30	12	6.0	4.7	5.9	8.6	66
20	6.5	8.6	10	17	15	26	11	6.1	4.7	5.7	6.9	69
21	6.5	9.7	e10	18	13	23	12	6.3	5.2	6.0	7.1	68
22	7.0	12	e12	17	11	18	11	6.5	4.8	e6.0	6.7	69
23	7.1	19	11	16	12	17	11	6.8	5.2	e6.0	7.1	70
24	6.9	7.4	9.9	17	13	17	11	6.1	5.0	e6.0	6.9	68
25	8.2	8.2	10	18	10	16	9.5	6.0	4.9	e6.0	7.1	76
26	7.4	9.2	10	24	14	17	9.6	6.1	4.8	e6.1	6.7	131
27	7.8	9.3	10	18	16	18	8.8	5.4	5.0	e6.1	6.2	76
28	9.0	10	11	17	14	18	8.2	5.7	4.8	e6.2	6.1	67
29	8.4	10	10	15	---	19	7.7	5.7	5.1	e6.2	6.3	70
30	8.5	10	9.5	17	---	18	8.6	6.0	4.9	e6.3	5.6	77
31	9.3	---	9.2	16	---	18	---	5.8	---	e6.3	7.6	---
TOTAL	206.3	282.0	331.8	864.0	367	929	417.4	199.8	155.7	178.6	345.0	1484.4
MEAN	6.65	9.40	10.7	27.9	13.1	30.0	13.9	6.45	5.19	5.76	11.1	49.5
MAX	9.3	19	19	256	16	80	21	8.4	6.4	6.3	106	188
MIN	5.1	7.4	8.2	8.7	10	15	7.7	5.4	4.6	5.0	5.6	8.1
AC-FT	409	559	658	1710	728	1840	828	396	309	354	684	2940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	MIN	WY	MEAN	MAX	MIN	WY	MEAN	MAX	MIN	WY
	10.8	25.7	5.46	1982	10.5	15.2	6.58	1988	11.6	21.7	5.31	1980
	13.4	27.9	6.18	1987	17.6	45.1	9.04	1980	25.9	72.4	9.68	1988
	24.8	132	6.81	1980	10.5	27.6	6.45	1980	7.18	12.1	4.37	1986
	7.16	13.8	4.19	1981	8.75	16.5	4.07	1981	7.16	13.8	4.19	1982
	11.4	49.5	5.43	1997	11.4	49.5	5.43	1997	8.75	16.5	4.07	1981
	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1980 - 1997

ANNUAL TOTAL	2931.4	5761.0	13.3
ANNUAL MEAN	8.01	15.8	28.4
HIGHEST ANNUAL MEAN			7.54
LOWEST ANNUAL MEAN			1980
HIGHEST DAILY MEAN	49	256	354
LOWEST DAILY MEAN	4.5	4.6	3.0
ANNUAL SEVEN-DAY MINIMUM	4.6	4.9	3.0
ANNUAL RUNOFF (AC-FT)	5810	11430	9610
10 PERCENT EXCEEDS	11	22	20
50 PERCENT EXCEEDS	7.4	9.4	9.6
90 PERCENT EXCEEDS	5.3	5.5	5.6

e Estimated

KANAB RIVER BASIN

09403690 JOHNSON WASH ABOVE FLOOD CANYON, NEAR KANAB, UT

LOCATION.--Lat 37°07'38", long 112°23'24", in SW¹/₄NW¹/₄SW¹/₄ sec. 26, T. 42 S., R. 5 W., Kane County, Hydrologic Unit 15010003, on right bank 5.7 mi upstream from Flood Canyon, and 6.2 mi north of U.S. Highway 89 and about 10 mi northeast of Kanab.

DRAINAGE AREA.--237 mi².

PERIOD OF RECORD.--October 1994 to September 1997 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,380 ft above sea level, from topographic map. A crest-stage gage was in operation at site 7.0 mi downstream from 1959 to 1974 at different datum. Published as Johnson Wash near Kanab, UT (09403700).

REMARKS.--Records poor. Diversions above station for irrigation and stock watering.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 616 ft³/s Aug. 10, 1997, gage height 15.05 ft, from rating curve extended above 17.1 ft³/s on basis of flow through culvert measurement at gage height 11.86 ft; minimum daily, 0.09 ft³/s July 20, 21, 1996.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 2, 1994, reached a stage of 11.86 ft, from floodmarks, discharge 541 ft³/s, from flow through culvert measurement.

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)
Jan. 3	1215	87	11.42	Sept 11	1315	57	11.32
Aug. 9	2100	438	14.17	Sept. 14	2300	77	12.25
Aug. 10	1100	616	15.05	Sept. 15	1100	200	13.80
Sept. 9	1915	100	12.05	Sept. 26	0730	172	14.52

Minimum daily discharge, 0.18 ft³/s April 27, 29, Aug. 18-20, 29, 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.43	e.50	.52	.29	.26	.24	.25	.19	.50	.27	.21	.21
2	e.35	e.50	.52	.29	.26	.25	.27	.19	.53	.26	.21	.19
3	e.40	e.50	.52	9.6	.26	.25	.27	.19	.53	.26	.23	.21
4	e.40	e.50	.52	.41	.26	.24	.26	.20	.54	.25	.25	.26
5	e.40	e.50	.54	.33	.26	.23	.24	.20	.57	.25	.23	.20
6	e.40	e.50	.57	.32	.26	.23	.24	.21	.61	.25	.22	.33
7	e.40	e.50	.54	.32	.26	.24	.23	.22	.64	.25	.22	.22
8	e.40	e.56	.52	.32	.26	.24	.23	.22	.76	.25	.22	.21
9	e.40	.51	.53	.32	.26	.23	.23	.23	.71	.25	23	9.6
10	e.40	.49	.58	.32	.25	.23	.22	.23	2.6	.24	79	.70
11	e.40	.50	.54	.31	.25	.23	.23	.24	.50	.24	.32	3.6
12	e.40	.49	.52	.31	.24	.23	.23	.26	.46	.23	.25	.25
13	e.40	.49	.52	.31	.24	.22	.22	.27	.45	.24	.22	.23
14	e.40	.49	.52	.30	.24	.22	.21	.28	.56	.24	.21	5.3
15	e.40	.48	.52	.28	.24	.22	.21	.29	.91	.23	.20	46
16	e.40	.48	e.50	.29	.28	.22	.20	.30	.46	.24	.20	.26
17	e.40	.48	.53	.27	.24	.23	.20	.32	.45	.22	.19	.21
18	e.40	.46	.51	.27	.24	.22	.20	.34	.43	.22	.18	.28
19	e.40	.46	.50	.27	.24	.22	.20	.40	.42	.22	.18	.26
20	e.50	.47	.49	.28	.23	.22	.20	.45	.38	.22	.18	.23
21	e.50	.51	.50	.27	.23	.22	.19	.43	.35	.23	.20	.22
22	e.50	.54	.51	.27	.24	.22	.19	.43	.33	.23	.20	.22
23	e.50	.49	.50	.29	.24	.22	.20	.43	.32	.22	.20	.22
24	e.50	.50	.47	.29	.24	.22	.19	.48	.31	.22	.19	.24
25	e.50	.49	.46	.30	.25	.23	.19	.49	.30	.22	.20	.28
26	e.50	.50	.40	.38	.25	.23	.19	.48	.29	.22	.25	24
27	e.50	.50	.37	.31	.26	.24	.18	.48	.28	.21	.23	.26
28	e.50	.50	.35	.29	.25	.24	.19	.49	.29	.22	.19	.26
29	e.50	.53	.32	.28	---	.24	.18	.49	.28	.23	.18	.28
30	e.50	.52	.31	.27	---	.25	.19	.49	.27	.22	.18	.29
31	e.50	---	.31	.27	---	.25	---	.50	---	.22	.19	---
TOTAL	13.49	14.94	15.01	18.63	6.99	7.17	6.43	10.42	16.03	7.27	108.13	95.02
MEAN	.44	.50	.48	.60	.25	.23	.21	.34	.53	.23	3.49	3.17
MAX	.50	.56	.58	9.6	.28	.25	.27	.50	2.6	.27	79	46
MIN	.34	.46	.31	.27	.23	.22	.18	.19	.27	.21	.18	.19
AC-FT	27	30	30	37	14	14	13	21	32	14	214	188

CAL YR 1996 TOTAL 114.60 MEAN .31 MAX 1.7 MIN .09 AC-FT 227
WTR YR 1997 TOTAL 319.53 MEAN .88 MAX 79 MIN .18 AC-FT 634

e Estimated

VIRGIN RIVER BASIN

135

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.--74.2 mi².

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder and artificial control. Elevation of gage is 5,900 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. A few small diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 640 ft³/s July 27, 1976, gage height, 4.14 ft; minimum daily discharge recorded, 3.3 ft³/s June 20, 1989.

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)
Jan. 3	0900	*264	*2.52	Sept. 26	0700	140	2.09

Minimum daily discharge, 4.9 ft³/s Jun. 24 and Aug. 26, but may have been less during period of no gage-height record Jul. 3 to Aug. 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	14	12	16	19	13	15	10	8.3	5.6	e5.2	7.8
2	9.9	15	12	22	19	13	15	9.3	9.1	5.6	e5.1	8.5
3	9.5	15	11	113	17	14	20	7.4	9.0	e5.5	e5.5	8.8
4	9.5	13	11	29	12	13	19	9.9	8.1	e5.5	e10	12
5	9.4	12	12	18	14	13	15	9.6	7.7	e5.4	8.7	8.7
6	9.1	11	15	16	13	14	14	9.4	7.5	e5.5	6.9	9.4
7	8.9	11	15	14	12	14	13	8.3	7.2	e5.6	5.7	8.9
8	8.4	11	15	15	13	16	13	8.8	7.8	e5.5	5.5	8.6
9	7.0	12	15	15	13	17	14	9.5	7.4	e5.3	5.4	8.6
10	6.9	12	30	16	13	18	13	9.7	7.4	e5.3	21	8.4
11	6.7	12	31	15	14	20	12	8.6	6.8	e5.2	9.4	9.2
12	7.3	12	24	15	13	21	18	7.8	6.1	e5.2	9.9	9.3
13	7.3	13	20	e15	13	20	16	7.9	6.3	e5.2	9.2	12
14	7.5	14	17	e15	13	20	15	7.5	9.6	e5.2	8.3	13
15	7.1	15	15	e13	14	19	14	7.0	11	e5.1	8.1	29
16	7.8	16	15	13	15	20	14	7.3	11	e5.0	7.3	14
17	7.2	16	13	13	16	21	12	6.9	9.6	e5.0	7.8	11
18	8.4	16	11	13	16	20	13	7.4	8.7	e5.0	7.7	10
19	8.2	15	12	14	15	20	15	9.9	7.9	e5.1	6.3	12
20	9.4	13	11	14	15	19	15	12	6.4	e5.0	5.9	11
21	10	12	12	14	14	19	14	10	6.5	e4.9	5.4	11
22	12	46	14	14	13	18	13	10	5.6	e5.1	5.2	12
23	13	25	15	16	13	18	14	9.7	5.3	e5.0	6.1	10
24	13	20	13	15	13	17	14	11	4.9	e5.0	6.3	8.7
25	14	14	14	15	13	16	13	10	5.6	e4.9	6.4	9.5
26	13	10	14	24	13	16	12	9.9	5.3	e5.0	4.9	45
27	12	11	14	21	13	15	12	9.9	5.1	e5.1	5.3	14
28	14	13	15	19	13	14	12	9.5	5.5	e5.4	5.5	13
29	14	14	15	19	---	13	11	8.8	6.0	e5.5	5.6	12
30	13	13	15	18	---	13	10	8.4	5.8	e5.3	6.2	10
31	15	---	16	18	---	14	---	8.3	---	e5.2	7.8	---
TOTAL	305.1	446	474	607	394	518	420	279.7	218.5	162.2	223.6	365.4
MEAN	9.84	14.9	15.3	19.6	14.1	16.7	14.0	9.02	7.28	5.23	7.21	12.2
MAX	15	46	31	113	19	21	20	12	11	5.6	21	45
MIN	6.6	10	11	13	12	13	10	6.9	4.9	4.9	4.9	7.8
AC-FT	605	885	940	1200	781	1030	833	555	433	322	444	725

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1997, BY WATER YEAR (WY)												
MEAN	13.6	15.4	16.3	16.9	19.3	25.4	38.8	30.8	15.5	11.6	11.4	11.2
MAX	22.5	24.6	30.2	26.2	36.4	54.3	145	131	43.6	28.3	26.6	24.7
(WY)	1984	1984	1967	1980	1980	1993	1980	1980	1980	1983	1983	1980
MIN	6.60	8.38	9.58	9.40	9.90	11.5	8.93	6.38	5.16	5.23	5.10	5.10
(WY)	1990	1990	1990	1991	1991	1977	1989	1989	1989	1997	1996	1989

SUMMARY STATISTICS				FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1967 - 1997			
ANNUAL TOTAL				4212.9		4413.5					
ANNUAL MEAN				11.5		12.1					
HIGHEST ANNUAL MEAN								18.8			
LOWEST ANNUAL MEAN								46.2		1980	
HIGHEST DAILY MEAN				67	Feb 21	113	Jan 3	285		Apr 21 1980	
LOWEST DAILY MEAN				4.5	Jun 15	4.9	Jun 24	3.3		Jun 20 1989	
ANNUAL SEVEN-DAY MINIMUM				4.5	Aug 5	5.0	Jul 20	3.7		Jun 19 1989	
ANNUAL RUNOFF (AC-FT)				8360		8750		13640			
10 PERCENT EXCEEDS				19		18		27			
50 PERCENT EXCEEDS				10		12		15			
90 PERCENT EXCEEDS				5.2		5.5		7.6			

e Estimated

09404700 EAST FORK VIRGIN RIVER NEAR MOUNT CARMEL JUNCTION, UT

LOCATION.--Lat 37°12'30", long 112°41'16", in SE¹/₄SW¹/₄SE¹/₄ sec. 25, T. 41 S., R. 8 W., Kane County, Hydrologic Unit 15010008, on left bank, 0.9 mi downstream of State Barn Wash, and 1.0 mi south of Mount Carmel Junction.

DRAINAGE AREA.--179 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,140 above sea level, from topographic map.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 18, 1992 reached a stage of 5.34 ft, present datum, from floodmarks, discharge, 550 ft³/s, on basis of slope-area measurement of peak flow.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 738 ft³/s Sept. 8, 1995, gage height, 5.24 ft, from rating curve extended above 200 ft³/s on basis of slope-area measurement; minimum daily discharge 0.40 ft³/s Aug. 21, 1996.

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)
Jan. 3	0915	473	4.72	Sept. 9	1930	211	2.89
Aug. 4	1700	220	3.09	Sept. 15	1030	408	4.14
Aug. 10	0800	*550	*5.34	Sept. 26	0500	413	4.19
Sept. 8	2230	213	2.90				

Minimum daily discharge 0.89 ft³/s Jul. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	14	e15	22	27	21	14	4.6	2.4	1.7	1.5	3.2
2	3.9	15	e14	26	28	22	15	3.9	2.3	1.5	1.6	3.4
3	3.8	17	e13	143	25	22	17	3.1	2.4	1.1	1.4	3.5
4	2.9	15	e13	38	e22	22	18	3.2	2.2	1.1	18	12
5	3.2	14	18	24	e23	21	16	3.6	2.6	1.1	6.4	4.1
6	3.1	e13	21	17	e21	21	13	3.2	2.5	1.1	2.2	4.3
7	3.1	e13	20	e18	e19	22	15	2.9	3.0	1.1	2.0	4.0
8	2.7	13	19	e19	e20	24	14	3.2	2.3	1.0	2.0	26
9	3.4	14	19	e20	e21	25	16	2.8	2.4	1.0	3.0	26
10	3.5	14	40	e22	e22	27	16	3.1	3.4	1.0	87	9.9
11	3.6	14	42	e19	23	28	14	2.7	3.0	.94	e2.4	14
12	3.4	14	30	e18	23	30	20	2.6	2.9	1.1	e2.2	11
13	3.7	15	24	e18	22	29	24	2.4	3.1	1.0	e1.8	20
14	3.9	14	21	e18	22	28	21	2.2	4.2	.95	e1.7	34
15	3.5	16	19	e18	24	29	18	2.8	7.8	.94	e1.6	189
16	3.6	18	20	e19	25	28	15	2.4	11	.95	e1.8	31
17	3.9	18	18	e20	25	29	13	2.3	11	.92	e1.8	25
18	3.5	18	e15	22	25	29	10	2.3	7.1	.89	e1.7	24
19	3.5	18	e16	22	25	29	9.3	3.0	3.5	1.1	e1.5	23
20	4.3	16	e15	21	25	28	11	6.6	3.0	1.1	e1.4	23
21	5.6	21	e17	22	23	28	10	4.5	2.5	1.1	e1.3	23
22	8.6	52	e19	21	22	26	9.0	4.0	2.4	1.1	e1.4	24
23	9.4	26	e21	22	22	25	7.9	3.4	2.0	1.1	e1.8	23
24	11	20	e20	23	21	24	8.7	4.2	1.4	1.1	e1.9	21
25	12	18	e20	24	21	21	8.1	5.6	1.8	1.2	e1.9	20
26	11	e14	21	41	22	22	6.0	5.0	1.5	1.2	e1.9	115
27	12	e15	21	36	22	21	4.9	4.0	1.4	1.2	e1.8	18
28	15	e16	22	29	22	20	6.6	3.9	1.6	1.2	e1.8	16
29	15	e17	22	27	---	18	5.9	4.1	1.5	1.3	1.6	15
30	14	e16	22	26	---	17	5.5	2.8	1.5	1.2	2.1	14
31	14	---	22	26	---	17	---	2.8	---	1.2	3.0	---
TOTAL	196.2	518	639	841	642	753	381.9	107.2	99.7	34.49	163.5	779.4
MEAN	6.33	17.3	20.6	27.1	22.9	24.3	12.7	3.46	3.32	1.11	5.27	26.0
MAX	15	52	42	143	28	30	24	6.6	11	1.7	87	189
MIN	2.1	13	13	17	19	17	4.9	2.2	1.4	.89	1.3	3.2
AC-FT	389	1030	1270	1670	1270	1490	757	213	198	68	324	1550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1997, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997
MEAN	13.4	20.8	21.4	24.7	29.9
MAX	26.6	26.3	25.5	28.0	40.9
(WY)	1994	1994	1994	1993	1993
MIN	6.33	17.3	18.6	21.6	22.9
(WY)	1997	1997	1993	1996	1997

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1993 - 1997

ANNUAL TOTAL	4035.18	5155.39	
ANNUAL MEAN	11.0	14.1	
HIGHEST ANNUAL MEAN			21.1
LOWEST ANNUAL MEAN			38.7
HIGHEST DAILY MEAN	72	189	12.1
LOWEST DAILY MEAN	.40	.89	189
ANNUAL SEVEN-DAY MINIMUM	.46	.96	.40
ANNUAL RUNOFF (AC-FT)	8000	10230	.46
10 PERCENT EXCEEDS	24	25	41
50 PERCENT EXCEEDS	5.0	14	18
90 PERCENT EXCEEDS	.77	1.5	1.5

e Estimated

VIRGIN RIVER BASIN

137

09404900 EAST FORK VIRGIN RIVER NEAR SPRINGDALE, UT

LOCATION.--Lat 37°09'51", long 112°57'28", in SE¹/₄SW¹/₄NW¹/₄ sec. 2, T. 42 S., R. 10 W., Washington County, Hydrologic Unit 15010008, Zion National Park, on right bank 0.7 mi upstream from Zion National Park boundary, 1.2 mi upstream from Shunes Creek, 2.7 mi southeast of Springdale, and 3.4 mi south-southeast of Zion National Park headquarters.

DRAINAGE AREA.--395 mi², approximately.

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,940 ft above sea level, from topographic map.

REMARKS.--Records good except for flows greater than 500 ft³/s and estimated daily discharges, which are poor. Numerous diversions for irrigation upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,100 ft³/s Aug. 10, 1997, gage height, 11.38 ft, from floodmarks, from rating curve extended above 200 ft³/s on basis of slope-area measurements at gage heights 6.41 ft and 9.70 ft; minimum daily discharge, 33 ft³/s Sept. 7-9, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,100 ft³/s Aug. 10, gage height, 11.38 ft, from rating curve extended as explained above; minimum daily discharge, 35 ft³/s July 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	53	e60	e60	67	61	54	41	37	37	36	e50
2	40	52	e60	e64	68	63	56	41	36	37	36	e50
3	39	55	e60	e300	65	63	60	39	37	36	36	e50
4	37	56	e60	e100	64	64	61	38	37	36	49	e90
5	37	55	e60	e70	62	60	58	38	38	36	53	e60
6	38	54	e60	e60	61	62	53	39	38	36	39	e70
7	37	52	e60	e60	59	64	55	38	38	36	37	e50
8	37	53	e60	e60	60	65	54	38	39	36	37	e90
9	37	54	e60	e60	60	67	57	38	39	36	37	e140
10	37	55	e100	e60	61	69	55	38	40	36	e200	e70
11	37	55	e100	59	62	72	53	38	39	36	e70	e60
12	37	55	e70	62	62	76	56	38	39	36	e80	e50
13	38	55	e60	64	60	76	66	38	41	36	e50	e50
14	38	55	e60	61	60	74	65	37	42	36	e45	e90
15	39	e56	e60	57	62	75	59	37	43	36	e45	e240
16	39	e56	e60	62	64	73	55	37	46	35	e45	e80
17	39	e56	e60	59	65	74	52	37	41	36	e45	e60
18	39	e56	e60	60	65	74	50	37	40	36	e45	e60
19	40	e56	e60	61	65	74	46	37	39	36	e45	e55
20	41	e56	e60	62	67	74	48	41	39	36	e45	57
21	41	e70	e60	63	62	74	48	41	38	36	e45	58
22	43	e200	e60	62	62	72	47	39	38	43	e45	60
23	47	e70	e60	84	62	70	46	38	38	37	e45	60
24	48	e65	e60	70	61	69	49	40	38	36	e45	58
25	50	e60	e60	73	62	65	48	39	37	36	e45	56
26	51	e60	e60	158	62	65	45	39	37	36	e45	281
27	49	e60	e60	114	68	64	43	39	37	36	e45	70
28	53	e60	e60	80	63	62	44	39	37	38	e45	59
29	55	e60	e60	70	---	61	43	38	37	37	e45	55
30	53	e60	e60	67	---	58	43	37	37	36	e45	53
31	54	---	e60	67	---	57	---	36	---	36	e60	---
TOTAL	1306	1860	1950	2409	1761	2097	1569	1190	1162	1128	1585	2332
MEAN	42.1	62.0	62.9	77.7	62.9	67.6	52.3	38.4	38.7	36.4	51.1	77.7
MAX	55	200	100	300	68	76	66	41	46	43	200	281
MIN	36	52	60	57	59	57	43	36	36	35	36	50
AC-FT	2590	3690	3870	4780	3490	4160	3110	2360	2300	2240	3140	4630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)
1992	46.7	57.1	38.8	1994	56.9	62.8	49.1	1994	58.6	62.9	53.6	1997	72.2	110	56.8	1993
1993	56.9	62.8	49.1	1994	58.6	62.9	53.6	1997	72.2	110	56.8	1993	72.2	110	56.8	1993
1994	58.6	62.9	53.6	1997	72.2	110	56.8	1993	72.2	110	56.8	1993	72.2	110	56.8	1993
1995	72.2	110	56.8	1993	72.2	110	56.8	1993	72.2	110	56.8	1993	72.2	110	56.8	1993
1996	72.2	110	56.8	1993	72.2	110	56.8	1993	72.2	110	56.8	1993	72.2	110	56.8	1993
1997	72.2	110	56.8	1993	72.2	110	56.8	1993	72.2	110	56.8	1993	72.2	110	56.8	1993

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1992 - 1997

ANNUAL TOTAL	17901	20349	59.8
ANNUAL MEAN	48.9	55.8	85.1
HIGHEST ANNUAL MEAN			48.2
LOWEST ANNUAL MEAN			1993
HIGHEST DAILY MEAN	200	300	323
LOWEST DAILY MEAN	34	35	33
ANNUAL SEVEN-DAY MINIMUM	34	36	34
ANNUAL RUNOFF (AC-FT)	35510	40360	43360
10 PERCENT EXCEEDS	63	70	82
50 PERCENT EXCEEDS	44	55	54
90 PERCENT EXCEEDS	35	37	37

e Estimated

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, Zion National Park, on right bank 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 and as Mukuntuweap River near Springdale 1923, 1925-32. Published as combined flow of river and Springdale canal 1923, 1925-88.

GAGE.--Water-stage recorder. Crest-stage gage since May 31, 1995. Elevation of gage is 3,970 ft above sea level, from topographic map. May 13, 1913, to June 30, 1914, nonrecording gage at site 3.8 mi downstream at different datum. June 6, 1923 to Sept. 1925, nonrecording gage at site 0.8 mi upstream. Oct. 1, 1925 to Dec. 14, 1949, nonrecording gage 50 ft downstream and 0.34 ft higher.

REMARKS.--Records good except those for flows greater than 300 ft³/s, which are fair, and those for estimated daily discharges, which are poor. Some regulation of low flows by Kolob Reservoir (20 mi upstream) and several diversions for irrigation upstream from station.

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 slope-area measurement at gage height 10.25 ft; minimum estimated, less than 5.0 ft³/s Apr. 12, 1995, result of landslide 1.0 mi upstream.

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)
Nov. 22	0145	916	3.52	Sept. 15	0930	^a 2,290	5.69
Jan. 3	0820	^a 2,830	6.49	Sept. 26	0435	^a 2,680	6.28
Aug. 10	0715	^a 3,560	7.50				

^a From rating curve extended above 1,600 ft³/s on the basis of slope-area measurement at gage height 10.25 ft.

Minimum daily discharge, 31 ft³/s Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	47	46	60	66	54	147	192	64	e43	39	42
2	47	47	49	65	67	64	122	168	63	e43	37	43
3	42	48	41	648	63	58	121	163	62	e41	37	47
4	38	50	43	124	62	62	118	168	58	e39	69	134
5	37	49	51	87	62	52	112	163	59	e41	75	58
6	35	47	74	62	53	61	98	166	59	e41	46	50
7	35	44	59	49	49	62	99	154	59	e40	41	46
8	33	47	91	63	58	66	95	149	61	e40	38	74
9	33	48	71	61	56	69	105	136	64	40	38	127
10	34	46	276	64	62	75	98	130	61	39	372	71
11	33	47	193	61	63	83	90	119	59	37	74	64
12	33	45	78	65	63	93	96	116	55	37	109	52
13	34	45	67	63	55	99	89	110	56	37	58	70
14	36	46	60	59	56	93	89	107	63	37	47	137
15	35	47	45	52	62	96	95	101	73	36	45	613
16	35	48	51	60	63	93	114	96	67	36	43	107
17	34	49	53	52	62	96	136	94	60	36	42	71
18	36	50	36	55	62	100	166	90	58	35	43	66
19	36	50	39	60	63	118	185	89	54	36	42	63
20	37	49	49	64	67	146	188	101	53	37	41	60
21	37	82	53	65	58	169	221	96	52	37	39	56
22	34	454	56	61	61	162	231	90	50	53	39	54
23	38	113	59	87	58	158	241	84	48	42	38	51
24	39	72	49	79	54	164	204	90	46	37	37	49
25	42	64	47	80	62	141	172	95	46	36	36	52
26	40	59	50	311	59	141	173	81	45	36	35	732
27	44	51	56	136	67	157	199	76	e44	37	34	98
28	58	50	56	86	61	175	212	74	e44	48	33	67
29	48	59	56	72	---	182	211	71	e44	44	33	58
30	45	46	56	66	---	157	196	70	e44	43	32	52
31	52	---	59	67	---	160	---	67	---	41	44	---
TOTAL	1191	1999	2069	2984	1694	3406	4423	3506	1671	1225	1736	3264
MEAN	38.4	66.6	66.7	96.3	60.5	110	147	113	55.7	39.5	56.0	109
MAX	58	454	276	648	67	182	241	192	73	53	372	732
MIN	31	44	36	49	49	52	89	67	44	35	32	42
AC-FT	2360	3970	4100	5920	3360	6760	8770	6950	3310	2430	3440	6470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1997, BY WATER YEAR (WY)

MEAN	46.2	53.0	52.9	62.0	74.1	128	210	254	107	54.1	47.6	47.7
MAX	69.0	74.4	73.5	96.3	110	271	644	813	404	113	71.1	109
(WY)	1994	1994	1994	1997	1995	1995	1993	1993	1995	1995	1995	1997
MIN	33.4	35.9	36.6	39.0	47.8	54.0	76.2	55.8	36.5	34.5	34.4	24.8
(WY)	1992	1990	1990	1991	1990	1990	1990	1990	1990	1994	1990	1989

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1989 - 1997

ANNUAL TOTAL	22273	29168	94.8
ANNUAL MEAN	60.9	79.9	207
HIGHEST ANNUAL MEAN			43.6
LOWEST ANNUAL MEAN			1993
HIGHEST DAILY MEAN	580	732	1140
LOWEST DAILY MEAN	27	31	22
ANNUAL SEVEN-DAY MINIMUM	29	34	23
ANNUAL RUNOFF (AC-FT)	44180	57850	68650
10 PERCENT EXCEEDS	84	155	164
50 PERCENT EXCEEDS	51	59	55
90 PERCENT EXCEEDS	35	37	34

e Estimated

LOCATION.--Lat 37°12'15", long 113°10'48", in SW¹/₄NW¹/₄SW¹/₄ sec. 23, T. 41 S., R. 12 W., Washington County, Hydrologic Unit 15010008, on right bank 0.25 mi downstream from North Creek and 0.5 mi east of Virgin.

DRAINAGE AREA.--956 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. WDR-UT-89-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,500 ft above sea level, from topographic map. At present location since July 18, 1985; from Oct. 1, 1978, to July 5, 1985, located 2 mi downstream on left bank, and from Dec. 19, 1949, to September 1971, located directly across from previous site, 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 good except those for discharges greater than 800 ft³/s, which are fair. Diversions for irrigation of about 2,800 acres above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,800 ft³/s Dec. 6, 1966, gage height, 18.00 ft, site and datum then in use, 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)
Nov. 22	0450	^a 2,170	11.92	Aug. 10	1235	^{a*} 5,550	[*] 14.53
Jan. 3	1505	^a 4,210	13.67	Sept. 15	1215	^a 3,460	13.10
Jan. 26	1120	^a 2,190	11.94	Sept. 26	0750	^a 5,210	14.33

^a From rating curve extended above 810 ft³/s on basis of one slope-area measurement at gage height, 13.72 ft.

Minimum daily discharge, 53 ft³/s July 16, 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	114	112	135	177	154	206	219	92	65	57	84
2	86	109	117	131	179	153	195	208	91	64	56	84
3	91	112	111	1360	173	154	198	203	89	63	55	83
4	73	117	110	361	167	154	204	204	87	60	117	252
5	70	111	113	227	168	142	193	202	87	58	135	110
6	66	110	148	193	167	141	187	203	87	58	74	140
7	65	107	141	161	154	141	185	191	89	58	61	118
8	66	108	151	171	154	142	183	179	93	57	57	147
9	64	106	144	168	157	148	188	165	97	56	56	218
10	61	107	578	164	156	149	186	158	93	55	1090	136
11	62	108	508	161	161	157	182	148	89	54	226	106
12	62	105	203	168	161	167	184	146	84	54	193	106
13	65	104	153	205	155	173	188	138	83	55	125	88
14	68	106	136	183	151	167	182	133	93	56	99	287
15	67	110	122	165	156	167	181	126	108	56	78	1420
16	69	115	115	170	155	162	188	124	106	53	75	273
17	71	115	123	167	156	173	197	122	93	54	73	153
18	69	115	104	158	157	166	209	118	87	53	74	133
19	73	112	102	165	162	179	218	119	82	54	72	103
20	75	109	112	178	166	203	220	135	79	54	70	98
21	81	118	116	176	156	237	237	136	75	59	72	94
22	83	926	122	171	152	232	246	124	72	91	73	93
23	87	327	130	243	153	220	256	116	70	99	71	91
24	92	161	119	216	145	226	238	118	69	61	75	90
25	98	138	113	212	147	210	218	131	67	59	75	119
26	104	127	116	784	148	206	214	115	66	56	74	1520
27	103	124	120	456	171	212	220	111	66	55	76	211
28	120	117	122	255	162	219	229	104	64	62	76	142
29	131	128	123	201	---	226	230	98	65	74	73	125
30	110	121	123	186	---	212	223	99	65	67	71	115
31	120	---	123	179	---	210	---	96	---	61	92	---
TOTAL	2516	4487	4730	7870	4466	5602	6185	4489	2488	1881	3671	6739
MEAN	81.2	150	153	254	160	181	206	145	82.9	60.7	118	225
MAX	131	926	578	1360	179	237	256	219	108	99	1090	1520
MIN	61	104	102	131	145	141	181	96	64	53	55	83
AC-FT	4990	8900	9380	15610	8860	11110	12270	8900	4930	3730	7280	13370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910-71, 1979-97, BY WATER YEAR (WY)

MEAN	130	146	157	164	191	254	393	432	158	121	137	138
MAX	528	606	648	791	833	822	981	1582	763	484	441	504
(WY)	1923	1923	1967	1911	1980	1910	1993	1979	1983	1911	1916	1911
MIN	61.3	82.9	77.4	70.9	90.9	91.7	121	87.5	58.1	30.4	43.5	53.1
(WY)	1929	1926	1932	1932	1926	1924	1970	1959	1961	1928	1928	1956

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1910-71, 1979-97

ANNUAL TOTAL	42018		55124			
ANNUAL MEAN	115		151		202	
HIGHEST ANNUAL MEAN					465	1922
LOWEST ANNUAL MEAN					95.7	1990
HIGHEST DAILY MEAN	1250	Feb 21	1520	Sep 26	10600	Sep 30 1911
LOWEST DAILY MEAN	53	Sep 4	53	Jul 16	22	Jul 10 1920
ANNUAL SEVEN-DAY MINIMUM	57	Sep 4	54	Jul 14	23	Jun 8 1921
ANNUAL RUNOFF (AC-FT)	83340		109300		146200	
10 PERCENT EXCEEDS	154		218		387	
50 PERCENT EXCEEDS	107		122		130	
90 PERCENT EXCEEDS	61		64		71	

VIRGIN RIVER BASIN

09406640 LEAP CREEK ABOVE MAPLE HOLLOW, NEAR PINTURA, UT

LOCATION.--Lat. 37°22'58", long 113°17'58", in NE¹/₄ NE¹/₄ SW¹/₄ sec. 22, T. 39 S., R. 13 W., Washington County, Hydrologic Unit 15010008, Dixie National Forest, on right bank about 200 ft upstream from unnamed diversion, and 4.6 mi northwest of Pintura.

DRAINAGE.--7.17 mi².

PERIOD OF RECORD.--December 1993 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,110 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and discharges less than 2.0 ft³/s, which are poor. No diversions upstream of gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 179 ft³/s Sept. 26, 1997, gage height, 7.42 ft, from rating curve extended above 24 ft³/s on the basis of slope-area measurement at gage height 6.17; no flow many days.

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)
Nov. 22	1130	^a 127	6.68	Aug. 12	0815	^a 33	4.73
Jan. 3	0845	^a 42	5.00	Sept. 15	1345	^a 87	6.00
Jan. 26	0845	^a 27	4.54	Sept. 26	0230	^a *179	*7.42
Aug. 10	0600	^a 80	5.86				

^a From rating curve extended as explained above.

No flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.17	e.80	.95	5.3	1.7	1.2	.75	.21	.00	.00	.00
2	.00	.14	e.90	1.6	4.9	1.3	1.2	.74	.19	.00	.00	.00
3	.00	.13	e.80	16	3.8	1.5	1.4	.71	.18	.00	.00	.43
4	.00	.10	e.78	2.8	3.2	1.4	1.3	.69	.16	.00	.00	1.8
5	.00	.00	e.80	1.5	3.0	1.6	1.2	.66	.16	.00	.00	.00
6	.00	.04	e.88	1.2	2.4	1.5	1.1	.66	.18	.00	.00	.02
7	.00	.05	.75	e1.0	e2.0	1.6	1.0	.61	.17	.00	.00	.00
8	.00	.05	.72	e.80	e1.8	1.9	1.0	.59	.19	.00	.00	.00
9	.00	.05	.72	e.70	1.8	2.3	1.0	.59	.20	.00	.00	.00
10	.00	.05	7.6	.67	1.8	2.7	1.0	.54	.17	.00	3.6	.00
11	.00	.05	7.2	.67	1.7	2.9	.98	.53	.13	.00	.01	.00
12	.00	.05	2.0	.85	1.7	2.9	1.0	.50	.10	.00	5.6	.00
13	.00	.05	1.4	1.5	1.8	2.3	.95	.47	.14	.00	2.0	.00
14	.00	.00	e1.2	e1.0	1.7	2.0	.94	.45	.17	.00	.45	5.5
15	.00	.00	e1.0	e.80	1.6	1.9	.90	.43	.19	.00	.13	6.9
16	.00	.00	e.90	e.80	1.9	1.7	.88	.41	.19	.00	.00	.16
17	.00	.00	e.80	e.70	2.1	1.6	.85	.40	.11	.00	.00	.14
18	.00	.00	e.72	e.70	1.9	1.5	.84	.41	.02	.00	.00	.14
19	.00	.00	e.70	.66	1.7	1.4	.86	.48	.00	.00	.00	.13
20	.00	.00	e.71	.94	1.8	1.4	.86	.54	.00	.00	.00	.11
21	.00	2.9	e.75	1.1	1.6	1.4	.87	.48	.00	.00	.00	.05
22	.00	34	e.80	1.0	1.5	1.4	.87	.42	.00	.00	.00	.00
23	.00	5.0	e.80	1.2	1.5	1.4	.91	.35	.00	.00	.00	.00
24	.00	1.9	e.70	1.4	1.9	1.4	.91	.40	.00	.00	.00	.00
25	.03	1.5	e.70	2.2	1.9	1.3	.86	.41	.00	.00	.00	.02
26	.16	1.3	e.60	18	1.3	1.3	.79	.36	.00	.00	.00	20
27	.19	e1.0	e.60	15	2.0	1.3	.76	.33	.00	.00	.00	.78
28	.43	e.90	e.70	7.8	2.1	1.3	.75	.32	.00	.00	.00	.49
29	.34	e.91	e.80	5.9	---	1.3	.75	.27	.00	.00	.00	.38
30	.31	e.88	.88	5.1	---	1.2	.75	.25	.00	.00	.00	.35
31	.31	---	.94	5.1	---	1.2	---	.24	---	.00	.00	---
TOTAL	1.77	51.22	39.65	99.64	61.7	51.6	28.68	14.99	2.86	0.00	11.79	37.40
MEAN	.057	1.71	1.28	3.21	2.20	1.66	.96	.48	.095	.000	.38	1.25
MAX	.43	34	7.6	18	5.3	2.9	1.4	.75	.21	.00	5.6	20
MIN	.00	.00	.60	.66	1.3	1.2	.75	.24	.00	.00	.00	.00
AC-FT	3.5	102	79	198	122	102	57	30	5.7	.00	23	74
CAL YR 1996	TOTAL	266.57	MEAN	.73	MAX	34	MIN	.00	AC-FT	529		
WTR YR 1997	TOTAL	401.30	MEAN	1.10	MAX	34	MIN	.00	AC-FT	796		

e Estimated

VIRGIN RIVER BASIN
09406900 WET SANDY CREEK NEAR PINTURA, UT

141

LOCATION.--Lat. 37°19'15", long 113°21'05", in SE¹/₄NW¹/₄SE¹/₄ sec. 7, T. 40 S., R. 13 W., Washington County, Hydrologic Unit 15010008, Dixie National Forest, on left bank about 100 ft upstream from unnamed diversion, 4.5 mi west of Pintura, Utah, and 5.0 mi upstream from mouth.

DRAINAGE.--5.29 mi².

PERIOD OF RECORD.--December 1993 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,240 ft above sea level, from topographic map.

REMARKS.--Records poor including those for estimated daily discharges. No diversions upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 321 ft³/s (estimated), July 15, 1996, gage height, 7.48 ft, from floodmarks; from rating curve extended above 4.5 ft³/s on the basis of velocity-area measurement at gage heights 7.05 ft and 7.20 ft, minimum daily discharge, 0.06 ft³/s (estimated), Aug. 23, 24, and 26, 1996.

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)
Sept. 26	0400	a *130	*6.61	No other peak greater than base discharge.			

a From rating curve extended above 4.5 ft³/s as explained above.
Minimum daily discharge, 0.07 ft³/s Oct. 13, 14, 20-22, and 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.13	e.09	e.50	.50	1.7	e2.2	e1.9	1.3	.88	.72	.45	.56
2	e.12	e.11	e.50	1.1	1.4	e1.5	e2.0	1.3	.89	.72	.44	.57
3	e.13	e.10	e.50	2.7	1.2	e1.5	e2.1	1.3	.84	.73	.49	.64
4	e.14	e.12	e.50	1.1	1.1	e1.8	e2.0	1.2	.84	.72	.60	.60
5	e.13	e.12	.45	.90	1.1	e2.1	e1.9	1.2	.89	.71	.46	.57
6	e.15	e.13	.58	e.80	.92	e1.6	e1.9	1.2	.87	.69	.43	1.5
7	e.11	.15	.45	e.80	e.90	e1.5	e1.7	1.2	.84	.68	.42	.58
8	e.09	.16	.41	e.80	.94	e1.4	e1.7	1.2	.88	.67	.40	.59
9	e.08	.14	.48	.85	.91	e1.5	e1.7	1.1	.81	.66	.40	.94
10	e.08	.14	e5.0	.86	.91	e2.1	e1.7	1.1	.80	.66	1.9	.50
11	e.08	.14	3.2	.82	.92	e2.8	e1.5	1.1	.80	.65	.94	.53
12	e.08	.14	1.0	1.0	.90	e2.8	e1.5	1.1	.82	.63	1.7	.60
13	e.07	.14	.56	2.3	.94	e1.9	e1.5	1.1	.88	.60	.66	.54
14	e.07	.13	.48	e1.5	.92	e1.8	e1.5	1.1	.92	.59	.66	2.7
15	e.08	.14	.40	e1.0	.98	e1.7	1.4	1.0	.86	.58	.66	e.70
16	e.08	.14	e.40	e.80	.98	e1.7	1.4	.98	.82	.56	.63	e.60
17	e.08	.14	e.50	e.80	1.0	e1.8	1.4	.96	.80	.56	.62	e.50
18	e.08	.13	e.40	e.80	1.0	e1.9	1.5	.98	.74	.57	.62	e.50
19	e.08	.13	e.40	.85	1.0	e2.0	1.5	1.1	.73	.56	.62	.45
20	e.07	.13	e.40	.86	1.0	e2.1	1.5	1.0	.75	.56	.63	.45
21	e.07	1.2	e.50	.90	e1.5	e1.9	1.5	.99	.76	.58	.62	.44
22	e.07	e6.0	e.60	.91	e1.1	e1.9	1.5	.95	.77	.63	.63	.45
23	e.08	1.4	e.60	1.0	e1.4	e2.1	1.5	.96	.77	.58	.62	.44
24	e.09	1.2	e.60	.91	e1.7	e2.1	1.5	1.0	.76	.56	.62	.44
25	e.08	1.4	.57	.95	e1.3	e2.1	1.5	.98	.76	.51	.62	.58
26	e.07	1.4	.53	2.5	e1.2	e2.2	1.4	.99	.77	.50	.59	18
27	e.09	.89	.53	2.8	e2.0	e2.1	1.4	.95	.77	.50	.58	.28
28	e.08	.81	.54	1.7	e1.3	e2.1	1.3	.90	.77	.52	.62	.25
29	e.10	.73	.49	1.3	---	e2.1	1.3	.88	.78	.50	.61	.20
30	e.11	.52	.48	1.4	---	e2.1	1.3	.88	.75	.49	.57	.40
31	e.09	---	.52	1.4	---	e2.1	---	.88	---	.46	.52	---
TOTAL	2.86	18.17	23.07	36.91	32.22	60.5	47.5	32.88	24.32	18.65	20.33	36.10
MEAN	.092	.61	.74	1.19	1.15	1.95	1.58	1.06	.81	.60	.66	1.20
MAX	.15	6.0	5.0	2.8	2.0	2.8	2.1	1.3	.92	.73	1.9	18
MIN	.07	.09	.40	.50	.90	1.4	1.3	.88	.73	.46	.40	.20
AC-FT	5.7	36	46	73	64	120	94	65	48	37	40	72

CAL YR 1996	TOTAL 234.49	MEAN .64	MAX 34	MIN .06	AC-FT 465
WTR YR 1997	TOTAL 353.51	MEAN .97	MAX 18	MIN .07	AC-FT 701

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. 40 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. Crest-stage gage since May 30, 1989. Elevation of gage is 4,000 ft above sea level, 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 estimated daily discharges, which are poor. One diversion above station for domestic use.

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 PERIOD OF RECORD.--Maximum discharge, 4,420 ft³/s Aug. 3, 1988, gage height, 9.41 ft, from rating curve extended above 33 ft³/s on basis of slope-area measurement; minimum daily discharge, 1.1 ft³/s Sept. 17, 1972.

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)
Jan. 26	1400	^a 73	2.94	Sep. 26	0500	^{a*} 108	*3.30

^a From rating curve extended above 33 ft³/s on basis of slope-area measurement at gage height 9.41 ft.
Minimum daily discharge, 2.1 ft³/s Oct. 1, 7-12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.8	2.9	3.1	7.3	5.4	6.0	5.8	7.9	6.2	3.9	2.9
2	2.3	2.7	2.9	3.3	7.1	5.4	6.1	5.8	8.0	6.0	3.8	3.4
3	2.3	2.9	2.9	8.7	6.5	5.4	6.3	5.8	7.9	6.1	4.0	3.5
4	2.2	2.7	2.8	5.3	6.2	5.3	6.2	5.7	8.0	5.9	4.7	3.6
5	2.2	2.7	2.9	4.8	6.1	5.2	6.0	5.6	8.2	5.7	4.1	3.1
6	2.2	2.7	3.2	4.6	6.0	5.3	6.0	5.5	8.4	5.6	3.8	3.5
7	2.1	2.7	2.9	5.3	5.9	5.2	6.0	5.5	8.5	5.5	3.6	3.1
8	2.1	2.7	2.9	4.4	5.9	5.2	6.1	5.5	8.8	5.4	3.6	3.0
9	2.1	2.7	2.9	4.3	5.7	5.2	6.1	5.5	8.5	5.3	3.6	3.3
10	2.1	2.7	5.9	4.3	5.6	5.4	6.1	5.5	8.4	5.1	4.5	3.0
11	2.1	2.7	8.4	4.1	5.6	5.4	6.1	5.4	8.2	5.1	4.0	2.9
12	2.1	2.7	4.2	4.4	5.6	5.5	6.2	5.3	8.3	5.0	5.0	2.8
13	2.2	2.7	3.8	4.9	5.4	5.6	6.1	5.2	8.6	5.0	3.9	2.9
14	2.2	2.7	3.7	4.5	5.4	5.7	6.0	5.2	9.0	4.8	3.7	3.1
15	2.2	2.7	3.6	4.3	5.4	5.8	6.0	5.3	8.9	4.7	3.6	6.1
16	2.2	2.7	3.5	4.0	5.4	5.8	6.0	5.4	8.5	4.6	3.6	3.5
17	2.3	2.8	3.6	4.0	5.4	5.8	5.9	5.6	8.1	4.6	3.6	3.3
18	2.3	2.9	3.4	4.1	5.4	5.8	5.9	5.9	7.8	4.5	3.5	3.2
19	2.4	2.8	3.3	4.3	5.4	5.8	6.0	6.5	7.7	4.5	3.4	3.1
20	2.4	2.8	3.3	4.6	5.4	5.9	6.0	7.1	7.7	4.5	3.3	3.1
21	2.5	4.2	3.3	4.8	5.4	5.9	6.0	7.2	7.5	4.7	3.3	3.0
22	2.5	16	3.5	4.8	5.4	5.9	6.0	7.3	7.4	4.8	3.2	3.0
23	2.6	5.6	3.4	7.8	5.4	6.0	6.1	7.4	7.2	4.8	3.1	3.0
24	2.6	3.5	3.2	6.8	5.2	5.9	6.2	7.8	7.2	4.5	3.1	2.9
25	2.6	3.1	3.2	6.3	5.2	5.9	6.0	7.8	7.0	4.4	3.0	3.1
26	2.6	3.0	3.2	34	5.2	5.9	6.0	7.8	6.8	4.2	3.0	25
27	2.6	2.9	3.2	20	5.8	5.9	5.9	7.9	6.7	4.2	2.9	6.3
28	2.9	2.9	3.3	10	5.4	5.9	5.8	7.9	6.5	4.4	2.9	5.1
29	2.8	2.9	3.2	7.7	---	5.9	5.8	7.9	6.4	4.4	2.9	4.2
30	2.7	2.9	3.1	7.2	---	5.9	5.8	8.0	6.3	4.2	2.8	3.5
31	3.4	---	3.1	7.1	---	5.9	---	7.9	---	4.0	2.9	---
TOTAL	73.9	101.8	108.7	207.8	159.7	175.1	180.7	198.0	234.4	152.7	110.3	125.5
MEAN	2.38	3.39	3.51	6.70	5.70	5.65	6.02	6.39	7.81	4.93	3.56	4.18
MAX	3.4	16	8.4	34	7.3	6.0	6.3	8.0	9.0	6.2	5.0	25
MIN	2.1	2.7	2.8	3.1	5.2	5.2	5.8	5.2	6.3	4.0	2.8	2.8
AC-FT	147	202	216	412	317	347	358	393	465	303	219	249

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1997, BY WATER YEAR (WY)												
MEAN	4.00	4.11	4.68	4.68	6.77	9.55	9.77	10.8	13.5	10.8	7.20	4.70
MAX	9.16	10.8	26.6	12.2	52.0	36.3	33.1	28.7	38.1	34.3	21.6	12.5
(WY)	1984	1988	1967	1993	1980	1983	1969	1969	1973	1983	1988	1983
MIN	2.05	1.85	2.01	2.18	2.32	2.46	2.00	2.30	2.15	1.51	1.62	1.73
(WY)	1971	1978	1978	1991	1991	1977	1977	1977	1977	1977	1977	1972

SUMMARY STATISTICS				FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1965 - 1997	
ANNUAL TOTAL				1278.5		1828.6			
ANNUAL MEAN				3.49		5.01		7.54	
HIGHEST ANNUAL MEAN								18.1	1980
LOWEST ANNUAL MEAN								2.20	1977
HIGHEST DAILY MEAN				16	Nov 22	34	Jan 26	412	Dec 6 1966
LOWEST DAILY MEAN				1.9	Aug 30	2.1	Oct 1	1.1	Sep 17 1972
ANNUAL SEVEN-DAY MINIMUM				1.9	Aug 29	2.1	Oct 6	1.3	Jul 10 1977
ANNUAL RUNOFF (AC-FT)				2540		3630		5460	
10 PERCENT EXCEEDS				5.2		7.7		17	
50 PERCENT EXCEEDS				3.1		5.0		4.7	
90 PERCENT EXCEEDS				2.2		2.7		2.4	

e Estimated

VIRGIN RIVER BASIN
09408150 VIRGIN RIVER NEAR HURRICANE, UT

143

LOCATION.--Lat 37°10'20", long 113°23'07", in NE¹/₄SE¹/₄SE¹/₄ sec. 35, T. 41 S., R. 14 W., Washington County, Hydrologic Unit 15010008, Bureau of Land Management, on right bank, 0.6 mi downstream from Quail Creek Reservoir Dam, 1.2 mi upstream from State Highway 9, and 5.2 mi west of Hurricane.

DRAINAGE AREA.--1,493 mi².

PERIOD OF RECORD.--March 1967 to February 1989, October 1990 to current year.

REVISED RECORDS.--WDR UT-78-1 and WRD UT-94-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,800 ft above sea level, from topographic map. Mar. 20, 1967 to Feb. 14, 1989 at site 1.2 mi downstream at different datum and Oct. 1, 1990 to Mar. 30, 1993 at site 1.3 mi downstream at different datum.

REMARKS.--Records good except those for flows greater than 2,000 ft³/s, which are fair. Since June 1985, flow diverted about 14 mi upstream into a pipeline (capacity approximately 250 ft³/s), that feeds Quail Creek Reservoir (capacity 40,000 acre-feet), an offstream site located about 0.6 mi upstream from the gage. Flows also subject to releases from Quail Creek Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 66,000 ft³/s Jan. 1, 1989, from slope-area measurement of Quail Creek reservoir dike failure; minimum daily discharge, 23 ft³/s Dec. 11, 1986, at site 1.2 mi downstream.

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, site and datum established in March 1967, from slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharge 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)
Nov. 22	1935	^a 4,210	11.29	Aug. 10	1420	^a 4,820	12.25
Jan. 3	1305	*5,120	*12.71	Sept. 15	1500	^a 3,840	10.72
Jan. 26	1330	^a 3,000	9.78	Sept. 26	1020	^a 5,070	12.64

^a From rating curve extended above 1,900 ft³/s on basis of slope-area measurement at gage height 12.55 ft.

Minimum daily discharge, 43 ft³/s Aug. 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	154	103	80	215	136	165	204	73	77	83	72
2	61	69	92	74	215	132	141	192	72	70	81	74
3	95	66	74	1640	201	150	139	180	76	64	81	85
4	83	72	73	545	181	152	165	180	73	70	80	310
5	81	68	74	192	183	149	145	183	72	68	190	193
6	77	65	81	146	178	149	131	187	78	66	101	178
7	70	61	106	113	173	149	125	178	82	66	90	151
8	67	62	100	119	173	147	126	165	75	57	81	144
9	65	65	98	116	187	154	131	151	80	58	71	297
10	71	67	603	112	180	158	131	146	76	66	1190	163
11	68	69	618	117	183	158	132	147	80	66	360	103
12	73	70	222	113	181	171	126	141	86	65	180	101
13	73	69	116	153	177	166	139	129	83	65	196	78
14	75	68	89	180	172	152	132	131	89	75	135	256
15	81	67	86	161	178	146	134	127	98	78	75	2390
16	80	67	85	152	179	146	140	127	97	77	64	422
17	78	67	86	151	175	146	147	129	87	64	62	218
18	77	69	78	146	170	125	169	126	73	66	61	187
19	89	70	78	145	174	151	189	105	68	62	56	142
20	92	72	80	170	168	142	193	105	72	61	52	100
21	95	74	76	185	169	168	226	115	70	69	51	104
22	95	1320	76	184	160	173	249	101	66	69	51	90
23	95	624	82	240	163	163	263	92	62	181	54	70
24	100	245	80	261	145	165	238	79	54	92	50	66
25	111	122	76	223	128	155	197	82	58	79	49	92
26	123	104	76	1130	128	136	193	69	63	69	45	1820
27	122	101	76	676	142	147	206	58	75	77	43	327
28	140	100	83	357	153	162	227	67	80	85	48	173
29	183	101	78	256	---	185	230	75	82	101	48	143
30	155	103	77	232	---	166	216	73	85	85	46	127
31	158	---	80	216	---	162	---	77	---	88	69	---
TOTAL	2900	4331	3802	8585	4831	4761	5145	3921	2285	2336	3843	8676
MEAN	93.5	144	123	277	173	154	172	126	76.2	75.4	124	289
MAX	183	1320	618	1640	215	185	263	204	98	181	1190	2390
MIN	61	61	73	74	128	125	125	58	54	57	43	66
AC-FT	5750	8590	7540	17030	9580	9440	10210	7780	4530	4630	7620	17210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967-88, 1991-97, BY WATER YEAR (WY)

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
MEAN	122	148	171	215	258	344	419	503	199	114	126	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129
MAX	304	280	440	662	1200	1178	1230	1657	869	248	316	289	289	289	289	289	289	289	289	289	289	289	289	289	289	289	289	289	289	289	289
(WY)	1987	1988	1972	1989	1980	1978	1993	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983
MIN	54.2	56.4	51.4	58.9	59.8	92.8	62.5	72.3	58.6	46.4	71.0	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
(WY)	1991	1991	1987	1991	1991	1977	1977	1972	1974	1972	1978	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1967-88, 1991-97

ANNUAL TOTAL	43317	55416	229
ANNUAL MEAN	118	152	515
HIGHEST ANNUAL MEAN			72.2
LOWEST ANNUAL MEAN			13200
HIGHEST DAILY MEAN	1970	Feb 21	2390
LOWEST DAILY MEAN	51	Jun 28	43
ANNUAL SEVEN-DAY MINIMUM	57	Jun 26	47
ANNUAL RUNOFF (AC-FT)	85920	109900	165800
10 PERCENT EXCEEDS	170	210	436
50 PERCENT EXCEEDS	86	104	141
90 PERCENT EXCEEDS	63	66	66

VIRGIN RIVER BASIN

09408175 ST. GEORGE-WASHINGTON CANAL NEAR WASHINGTON, UT

LOCATION.--Lat 37°06'54", long 113°26'18", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20, T. 42 S., R. 14 W., Washington County, Hydrologic Unit 15010008, on right bank immediately upstream from concrete flume, 0.2 mi downstream from diversion, 2.2 mi southeast of Washington, Utah.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Parshall flume since Nov. 8, 1991. Elevation of gage is 2,680 ft above sea level, from topographic map. Prior to Nov. 8, 1991 at site 150 ft downstream at same datum. Water-quality monitoring equipment located about 150 ft downstream.

REMARKS.--No estimated daily discharge. Records good. Completely regulated canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 116 ft³/s Oct. 22, 1989; no flow at times most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	34	33	38	11	24	100	94	81	83	90	86
2	66	31	25	38	10	24	45	93	81	78	85	72
3	75	30	21	21	10	31	47	92	82	67	88	81
4	68	30	40	13	9.4	47	61	92	80	76	81	89
5	66	30	58	9.7	9.3	48	50	92	78	74	73	68
6	61	30	36	8.9	9.1	49	49	106	83	69	46	39
7	20	30	26	3.7	8.9	60	49	102	89	73	45	39
8	.00	30	39	.00	8.9	72	56	101	84	62	69	38
9	39	30	39	.00	8.9	81	60	100	87	61	70	41
10	74	30	45	.00	14	82	73	99	85	69	31	38
11	70	30	46	.00	22	86	79	99	85	71	6.1	52
12	74	30	39	.00	22	99	79	98	93	68	17	63
13	75	30	40	.00	22	96	67	97	90	68	47	63
14	78	30	40	.00	21	98	77	99	97	78	38	67
15	82	30	40	.00	21	96	101	105	103	81	71	79
16	82	30	40	.00	21	55	102	108	100	83	85	36
17	69	30	40	.00	21	65	103	108	96	69	85	36
18	62	30	39	5.4	21	78	105	107	80	69	85	41
19	68	31	39	9.5	21	90	107	102	38	68	85	50
20	72	31	39	10	21	94	107	96	75	61	83	63
21	56	31	39	11	23	107	90	98	74	75	82	81
22	62	48	39	10	23	103	42	96	71	76	82	80
23	70	43	40	11	24	98	81	94	67	98	84	78
24	70	39	39	11	24	98	81	88	58	89	83	77
25	55	27	39	11	24	95	79	87	61	84	82	34
26	52	33	39	14	24	96	85	78	67	69	77	.00
27	45	33	15	12	24	98	94	59	75	80	75	.00
28	33	33	15	12	24	99	94	67	84	90	79	30
29	10	33	38	11	---	101	95	85	84	97	77	76
30	33	33	38	11	---	100	95	82	89	91	79	87
31	33	---	38	11	---	99	---	84	---	93	85	---
TOTAL	1791.00	960	1143	282.20	502.5	2469	2353	2908	2417	2370	2165.1	1684.00
MEAN	57.8	32.0	36.9	9.10	17.9	79.6	78.4	93.8	80.6	76.5	69.8	56.1
MAX	82	48	58	38	24	107	107	108	103	98	90	89
MIN	.00	27	15	.00	8.9	24	42	59	38	61	6.1	.00
AC-FT	3550	1900	2270	560	997	4900	4670	5770	4790	4700	4290	3340
CAL YR 1996	TOTAL 22286.90		MEAN 60.9		MAX 109		MIN .00		AC-FT 44210			
WTR YR 1997	TOTAL 21044.80		MEAN 57.7		MAX 108		MIN .00		AC-FT 41740			

145

[illegible]

09408175 ST. GEORGE-WASHINGTON CANAL NEAR WASHINGTON, UT--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

[illegible][illegible]

09408175 ST. GEORGE-WASHINGTON CANAL NEAR WASHINGTON, UT--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	23.5	---	---	14.0	9.2	11.5	7.9	3.5	5.6	---	---	---
2	20.8	16.5	18.2	12.3	8.6	10.6	---	3.9	---	---	---	---
3	22.6	15.4	18.7	13.9	11.3	12.3	7.6	---	---	---	---	---
4	23.9	16.2	19.9	20.5	10.3	12.7	7.9	---	---	---	---	---
5	24.3	17.0	20.7	14.4	10.9	12.3	8.1	5.2	6.7	---	---	---
6	24.7	16.9	20.8	11.3	7.3	9.5	---	7.9	---	---	---	---
7	---	---	---	11.0	5.9	8.5	11.3	---	---	---	---	---
8	---	---	---	12.4	6.9	9.5	11.7	7.1	9.4	---	---	---
9	23.2	---	---	13.2	7.8	10.5	10.9	7.4	9.4	---	---	---
10	22.6	15.4	19.0	13.6	8.5	11.0	10.6	7.3	8.8	---	---	---
11	22.4	15.6	18.9	13.9	9.1	11.4	8.2	7.5	7.9	---	---	---
12	22.1	15.4	18.5	13.7	8.8	11.3	11.8	7.9	9.7	---	---	---
13	20.4	14.5	17.5	13.0	9.2	11.2	12.4	8.5	10.3	---	---	---
14	21.5	15.7	18.5	11.6	9.0	10.5	10.2	3.4	7.7	---	---	---
15	20.0	13.5	16.9	11.3	9.5	10.2	---	---	---	---	---	---
16	18.9	14.0	16.4	11.0	7.1	9.1	8.7	---	---	---	---	---
17	16.1	10.8	13.8	10.0	8.2	9.1	6.9	---	---	---	---	---
18	18.1	10.8	14.5	13.6	10.0	11.4	4.7	---	---	---	---	---
19	16.5	13.4	15.0	13.9	9.2	11.6	6.5	---	---	---	---	---
20	14.1	9.4	11.7	14.2	9.8	12.1	6.0	---	---	---	---	---
21	11.6	6.7	9.0	13.1	11.0	12.1	6.0	4.3	5.3	---	---	---
22	13.2	6.4	9.5	13.3	9.3	11.5	7.5	6.0	6.8	---	---	---
23	13.2	7.1	10.2	10.7	8.0	9.2	9.9	6.5	8.0	---	---	---
24	12.1	8.0	10.3	11.1	8.1	9.4	8.7	4.6	6.7	---	---	---
25	13.1	---	---	---	---	---	8.7	4.3	6.5	---	---	---
26	12.2	7.3	9.6	10.4	6.3	8.9	7.4	5.3	6.4	---	---	---
27	9.4	7.0	8.3	8.7	4.5	6.5	---	---	---	---	---	---
28	11.3	---	---	9.3	4.9	7.2	10.9	---	---	---	---	---
29	---	---	---	9.6	6.8	8.2	11.1	7.7	9.3	---	---	---
30	14.3	9.3	11.7	8.1	4.2	6.2	10.3	8.7	9.6	---	---	---
31	13.3	10.3	11.8	---	---	---	10.1	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	8.8	2.5	5.4	17.1	11.1	13.7	21.9	---	---
2	---	---	---	8.5	3.8	5.9	---	---	---	20.8	10.0	16.6
3	---	---	---	10.5	3.8	6.6	13.1	---	---	23.0	14.0	18.6
4	---	---	---	9.8	4.1	6.4	16.2	---	---	24.0	---	---
5	---	---	---	10.4	3.5	6.4	17.5	---	---	25.3	---	---
6	---	---	---	11.6	4.4	7.5	18.5	---	---	24.6	18.0	21.1
7	---	---	---	12.1	5.1	8.4	20.0	---	---	23.9	---	---
8	---	---	---	12.7	5.9	8.9	18.5	---	---	25.2	17.4	20.9
9	---	---	---	13.3	5.0	9.6	16.4	---	---	25.3	---	---
10	---	---	---	14.1	5.0	10.2	19.0	---	---	25.7	19.0	21.9
11	9.5	4.6	6.7	16.8	5.0	10.4	19.6	---	---	26.4	18.3	21.7
12	8.5	4.7	6.3	14.9	8.7	11.5	18.4	---	---	26.2	18.5	21.8
13	7.1	2.9	4.5	14.2	7.8	10.8	20.3	---	---	27.0	18.2	22.2
14	8.3	2.7	4.9	13.5	7.6	10.3	21.2	---	---	27.3	18.9	22.6
15	9.6	3.9	6.3	13.0	7.6	10.3	22.7	---	---	27.9	13.1	22.2
16	10.0	5.4	7.4	---	---	---	24.4	---	---	27.3	---	---
17	10.0	7.0	8.2	14.7	---	---	25.0	---	---	26.4	---	---
18	11.0	5.7	7.7	15.7	8.2	11.7	24.2	---	---	26.8	---	---
19	10.3	4.6	7.0	16.7	9.3	12.7	23.0	---	---	24.3	16.4	20.2
20	9.4	4.9	7.0	17.1	9.1	13.0	22.0	---	---	25.6	20.1	22.2
21	9.0	3.6	5.9	15.4	9.9	12.8	22.9	---	---	27.2	20.5	23.5
22	9.4	5.1	6.7	14.8	9.6	12.2	23.2	---	---	26.5	19.2	22.7
23	7.9	3.7	5.3	16.2	8.9	12.2	20.4	---	---	25.5	19.5	22.3
24	7.3	2.4	4.3	15.1	8.4	11.3	18.3	---	---	26.9	19.9	22.5
25	8.5	2.7	5.0	---	---	---	20.9	---	---	26.0	18.4	22.2
26	9.2	---	---	20.4	---	---	22.6	14.8	18.0	25.6	14.8	21.0
27	6.5	5.0	6.1	20.4	12.9	16.7	22.9	---	---	25.1	---	---
28	8.7	4.1	5.9	21.6	14.0	17.4	22.9	---	---	27.7	---	---
29	---	---	---	19.2	11.6	15.5	21.3	---	---	27.3	---	---
30	---	---	---	21.2	11.9	16.4	22.0	14.8	17.6	29.9	---	---
31	---	---	---	18.8	14.2	16.4	---	---	---	31.2	18.1	25.1
MONTH	---	---	---	---	---	---	---	---	---	31.2	---	---

VIRGIN RIVER BASIN

09408175 ST. GEORGE-WASHINGTON CANAL NEAR WASHINGTON, UT--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

[illegible]

149

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)
Sept. 26	0430	*310	*3.75	No other peak greater than base.			
Minimum daily discharge, 0.98 ft ³ /s Oct. 11.							

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.2	2.6	2.5	4.0	2.4	8.6	19	7.6	3.9	3.0	2.3
2	1.1	1.2	2.4	2.7	4.2	2.4	8.0	18	7.4	3.8	2.9	2.8
3	1.1	1.5	2.2	2.5	4.1	2.6	7.7	17	7.1	3.8	3.0	2.8
4	1.1	1.4	2.2	2.6	4.0	2.6	7.1	19	6.8	3.7	4.9	3.2
5	1.1	1.3	2.6	2.5	3.8	2.6	6.8	21	6.8	3.6	3.6	2.7
6	1.1	1.3	2.6	2.5	3.9	2.7	6.3	23	6.8	3.6	3.2	2.6
7	1.0	1.2	2.4	2.6	3.4	2.7	6.1	22	6.6	3.5	3.0	2.5
8	1.1	1.2	2.4	2.7	3.4	2.8	5.9	21	6.7	3.5	3.0	2.4
9	1.0	1.2	2.5	2.8	3.3	3.0	5.9	20	6.5	3.5	3.0	3.9
10	1.0	1.2	2.5	3.0	3.3	3.4	5.8	19	6.3	3.4	5.2	3.0
11	.98	1.1	2.5	3.2	3.2	4.3	5.5	18	6.1	3.5	3.9	2.7
12	1.0	1.1	2.5	3.4	3.1	5.3	5.6	19	6.0	3.4	3.4	2.5
13	1.0	1.1	2.5	3.6	3.2	6.0	5.4	19	5.9	3.4	3.2	2.7
14	1.1	1.1	2.5	3.6	3.0	6.2	5.5	19	6.3	3.4	3.1	2.6
15	1.1	1.2	2.3	3.4	3.0	6.3	5.9	19	6.5	3.3	3.0	3.5
16	1.1	1.2	2.3	3.5	3.0	6.2	6.0	19	6.0	3.3	2.9	4.0
17	1.1	1.2	2.3	3.9	3.2	6.0	6.3	18	5.7	3.2	3.0	3.3
18	1.0	1.2	2.3	3.4	3.1	6.1	7.9	18	5.4	3.2	2.9	3.2
19	1.1	1.2	2.8	3.5	3.2	7.0	10	17	5.2	3.2	2.9	3.1
20	1.1	1.1	2.6	3.8	3.3	9.0	14	20	5.0	3.8	2.8	2.9
21	1.1	2.4	2.5	3.9	3.2	11	19	17	4.9	3.7	2.7	2.8
22	1.1	35	2.8	3.7	3.3	11	21	16	4.8	3.6	2.7	2.7
23	1.2	14	2.5	3.7	3.2	11	22	14	4.6	3.5	2.6	2.6
24	1.1	8.5	2.4	3.5	3.1	10	19	14	4.6	3.3	2.6	2.6
25	1.2	6.4	2.3	3.5	3.0	9.4	16	12	4.5	3.2	2.5	2.7
26	1.1	5.2	2.3	4.0	3.0	8.9	15	11	4.3	3.2	2.5	76
27	1.2	4.4	2.4	3.8	3.1	8.9	16	9.8	4.2	3.2	2.4	17
28	1.4	3.9	2.3	4.1	3.0	9.0	18	9.0	4.1	3.4	2.4	10
29	1.2	3.0	2.2	4.0	---	10	20	8.6	4.1	3.2	2.4	7.7
30	1.2	2.8	2.2	3.8	---	9.6	20	8.3	4.0	3.2	2.3	6.6
31	1.4	---	2.4	3.8	---	9.2	---	7.9	---	3.1	2.3	---
TOTAL	34.48	109.8	75.3	103.5	93.6	197.6	326.3	512.6	170.8	106.6	93.3	189.4
MEAN	1.11	3.66	2.43	3.34	3.34	6.37	10.9	16.5	5.69	3.44	3.01	6.31
MAX	1.4	35	2.8	4.1	4.2	11	22	23	7.6	3.9	5.2	76
MIN	.98	1.1	2.2	2.5	3.0	2.4	5.4	7.9	4.0	3.1	2.3	2.3
AC-FT	68	218	149	205	186	392	647	1020	339	211	185	376

MEAN	3.52	3.86	3.77	2.79	3.35	6.59	17.2	33.7	25.1	10.6	5.92	4.01
MAX	12.5	21.4	30.3	5.08	8.29	24.8	43.4	122	126	47.9	23.2	12.1
(WY)	1973	1988	1967	1979	1995	1995	1969	1973	1983	1983	1983	1983
MIN	.84	.95	1.02	1.10	.68	1.20	1.66	4.58	2.10	1.21	1.07	1.02
(WY)	1978	1978	1978	1990	1990	1977	1977	1996	1996	1963	1960	1977

ANNUAL TOTAL	1050.18		2013.28					
ANNUAL MEAN	2.87		5.52			10.1		
HIGHEST ANNUAL MEAN						29.4		1983
LOWEST ANNUAL MEAN						2.30		1977
HIGHEST DAILY MEAN	35	Nov 22	76	Sep 26		397		Dec 6 1966
LOWEST DAILY MEAN	.98	Oct 11	.98	Oct 11		.51		Feb 15 1990
ANNUAL SEVEN-DAY MINIMUM	1.0	Oct 7	1.0	Oct 7		55		Feb 13 1990
ANNUAL RUNOFF (AC-FT)	2080		3990			7290		
10 PERCENT EXCEEDS	4.8		14			23		
50 PERCENT EXCEEDS	2.5		3.3			3.9		
90 PERCENT EXCEEDS	1.1		1.2			1.6		

e Estimated

VIRGIN RIVER BASIN

09409100 SANTA CLARA RIVER ABOVE BAKER RESERVOIR NEAR CENTRAL, UT

LOCATION.--Lat 37°23'05", long 113°37'52", in SW¹/₄NW¹/₄NE¹/₄ sec. 22, T. 39 S., R. 16 W., Washington County, Hydrologic Unit 15010008, on left bank 0.6 mi downstream from Kane Spring Draw, 0.8 mi upstream from Baker Dam, 2.6 mi south of Central, Utah, and 4.0 mi north of Veyo, Utah.

DRAINAGE AREA.--116 mi².

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,875 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges and discharges less than 2.0 ft³/s, which are poor. Diversion 0.5 mi upstream for power generation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,160 ft³/s (estimated), Mar. 11, 1995, gage height, 5.79 ft, from rating curve extended above 100 ft³/s on basis of slope-area measurement at gage height 2.28 ft and velocity-area measurement at gage height 2.78 ft; minimum daily discharge, 0.13 ft³/s Aug. 15, 16, 1991.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 6, 1966 reached a discharge of 2,080 ft³/s, from flow over dam measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 276 ft³/s Jan. 3, gage height, 2.92 ft; minimum daily discharge, 0.40 ft³/s Sept. 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	.52	.54	.42	.98	1.1	1.5	2.2	1.2	.79	.52	.50
2	.59	.58	.56	.46	1.0	1.2	1.5	1.9	1.3	.78	.50	.58
3	.63	.65	.52	66	.97	1.1	1.5	1.8	1.4	.76	.58	2.3
4	.61	.65	.48	8.3	.93	1.1	1.4	1.7	1.4	.73	.86	.53
5	.56	.57	6.8	1.2	.97	1.1	1.5	1.9	1.4	.64	.81	.45
6	.58	.52	12	.50	.94	1.2	1.3	3.2	1.4	.64	.62	.46
7	.54	.52	12	.44	.87	1.2	1.3	2.6	1.4	.64	.57	.44
8	.53	.52	11	.46	.94	1.3	1.4	2.6	1.3	.63	.54	.48
9	.49	.50	12	.44	.96	1.2	1.4	2.5	5.3	.62	.58	.52
10	.52	.47	19	.44	.96	1.0	1.3	2.2	13	.61	1.8	.53
11	.52	.46	21	.42	.91	5.8	1.3	2.0	12	.57	.90	.49
12	.53	.43	17	.43	.89	16	1.6	1.9	11	.58	.75	.50
13	.55	.41	16	.42	.86	7.3	1.6	2.1	12	.58	.68	.47
14	.56	.41	16	.42	.84	2.1	1.5	2.2	14	.57	.57	.46
15	.55	.45	14	.42	.88	1.3	1.4	2.2	16	.55	.52	9.0
16	.53	.46	16	.46	.91	1.2	1.4	2.2	8.7	.57	.52	.95
17	.53	.46	14	.44	.95	1.2	1.4	2.0	2.9	.55	.53	.48
18	.51	.47	11	.45	.93	1.1	1.4	1.9	1.2	.54	.53	.41
19	.51	.45	13	.44	.99	1.2	1.6	2.7	1.2	.55	.51	.40
20	.52	.46	7.5	.46	1.1	1.4	1.6	5.2	1.1	.55	.49	.43
21	.54	.62	.54	.46	1.0	1.6	2.1	3.5	1.1	.59	.48	.47
22	.52	19	2.5	.46	1.1	1.7	2.8	2.7	1.0	.64	.48	.48
23	.48	10	.47	.55	1.1	1.6	2.9	1.9	.90	.68	.47	.48
24	.49	1.9	.44	.52	1.1	1.5	2.5	1.9	.89	.62	.46	.50
25	.52	.72	.41	.52	1.1	1.5	2.5	1.9	.76	.59	.46	.55
26	.47	.65	.43	64	1.2	1.5	2.1	1.6	.77	.57	.46	71
27	.47	.60	.41	26	1.2	1.5	1.6	1.4	.76	.58	.46	30
28	.50	.57	.41	2.5	1.1	1.5	1.6	1.3	.75	.64	.47	15
29	.52	.58	.41	.99	---	1.5	1.8	1.2	.76	.65	.46	8.9
30	.48	.54	.41	.95	---	1.5	2.1	1.3	.94	.64	.48	5.4
31	.65	---	.41	.96	---	1.5	---	1.1	---	.54	.50	---

TOTAL	16.56	45.14	227.24	180.93	27.68	67.0	50.9	66.8	117.83	19.19	18.56	153.16
MEAN	.53	1.50	7.33	5.84	.99	2.16	1.70	2.15	3.93	.62	.60	5.11
MAX	.65	19	21	66	1.2	16	2.9	5.2	16	.79	1.8	71
MIN	.47	.41	.41	.42	.84	1.0	1.3	1.1	.75	.54	.46	.40
AC-FT	33	90	451	359	55	133	101	132	234	38	37	304

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1997, BY WATER YEAR (WY)

MEAN	3.80	3.71	4.79	3.92	4.40	15.4	10.5	20.7	17.7	6.86	2.81	4.72
MAX	14.6	12.9	10.6	12.9	11.8	63.7	35.1	77.8	84.1	32.1	7.36	15.5
(WY)	1996	1996	1993	1993	1993	1995	1993	1993	1995	1995	1995	1995
MIN	.41	.50	.40	.55	.55	.75	.87	.47	.34	.28	.30	.40
(WY)	1992	1990	1990	1990	1990	1990	1996	1990	1996	1996	1996	1996

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1990 - 1997

ANNUAL TOTAL	496.58	990.99	8.30
ANNUAL MEAN	1.36	2.72	24.5
HIGHEST ANNUAL MEAN			1.39
LOWEST ANNUAL MEAN			1995
HIGHEST DAILY MEAN	21	71	393
LOWEST DAILY MEAN	.26	.40	.13
ANNUAL SEVEN-DAY MINIMUM	.26	.41	.18
ANNUAL RUNOFF (AC-FT)	985	1970	6010
10 PERCENT EXCEEDS	1.3	6.2	19
50 PERCENT EXCEEDS	.53	.86	1.3
90 PERCENT EXCEEDS	.29	.46	.44

e Estimated

VIRGIN RIVER BASIN

151

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. 17 W., Washington County, Hydrologic Unit 15010008, on right bank at downstream side of bridge on county road at Gunlock, 0.5 mi downstream from tailrace of powerhouse.

DRAINAGE AREA.--271 mi².

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,628 ft above sea level, from topographic map.

REMARKS.--Records good except Jan. 3 to Jan. 26 and Sept. 3 to Sept. 15 and estimated daily discharges, which are poor. Many diversions for irrigation upstream from station. Some regulation of low flow by several reservoirs and powerplant upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,830 ft³/s, estimated, Mar. 11, 1995, gage height, 8.07 ft; no flow several days during 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2030 ft³/s, Sept. 3, gage height, 7.47 ft minimum daily discharge, 1.7 ft³/s, July 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	9.3	13	13	60	20	14	13	7.9	5.7	5.3	11
2	3.8	9.8	13	13	64	19	14	13	8.1	5.6	5.4	12
3	5.1	9.8	13	198	48	19	14	12	7.7	5.8	5.7	57
4	5.0	10	13	66	32	18	14	12	7.2	5.0	8.0	14
5	5.0	10	11	33	25	18	14	12	7.7	3.7	6.9	9.2
6	5.7	10	10	21	21	18	14	12	8.3	4.3	6.5	9.5
7	5.9	11	8.9	18	21	18	13	13	9.3	5.5	6.4	7.8
8	6.2	11	9.2	14	21	18	13	13	9.1	5.1	6.2	15
9	5.3	10	8.9	13	21	18	14	13	8.2	4.7	5.7	15
10	4.6	9.7	41	12	21	18	14	12	8.2	4.6	35	11
11	3.1	9.6	131	12	22	17	15	12	8.6	4.1	21	11
12	2.9	9.3	46	12	22	17	14	12	8.8	3.6	16	10
13	2.2	8.9	25	12	22	19	14	11	9.5	3.5	15	10
14	2.0	9.1	18	11	22	18	15	10	9.4	3.2	13	9.8
15	2.2	9.1	15	16	22	17	15	10	10	2.7	11	30
16	2.4	9.4	13	16	22	17	15	11	9.5	2.9	11	47
17	3.9	9.3	13	14	22	17	15	11	8.8	3.0	11	e20
18	3.4	9.1	11	17	22	16	14	11	8.7	2.7	10	e16
19	3.9	9.2	11	25	22	15	14	13	7.9	1.7	10	e14
20	4.9	9.2	11	26	22	14	14	13	7.2	1.7	11	e14
21	5.3	9.6	e11	27	21	15	14	12	7.0	2.8	10	e14
22	5.1	29	e12	25	20	14	14	12	6.2	3.1	9.8	e14
23	4.5	27	12	45	20	15	14	13	5.8	4.0	9.4	e14
24	4.5	17	13	46	20	14	14	12	5.8	4.0	11	14
25	5.9	15	13	42	19	14	14	11	4.9	5.1	11	14
26	6.3	15	12	544	20	14	14	11	4.3	5.1	11	33
27	7.1	16	12	499	20	14	14	9.9	5.8	5.1	10	16
28	8.6	16	13	166	20	13	14	9.3	5.5	5.5	11	15
29	8.5	16	13	87	---	13	13	9.3	4.9	5.5	11	16
30	8.4	14	13	64	---	13	13	8.7	5.7	5.5	10	15
31	9.7	---	13	51	---	14	---	7.5	---	5.6	11	---
TOTAL	156.0	367.4	572.0	2158	714	504	421	354.7	226.0	130.4	335.3	508.3
MEAN	5.03	12.2	18.5	69.6	25.5	16.3	14.0	11.4	7.53	4.21	10.8	16.9
MAX	9.7	29	131	544	64	20	15	13	10	5.8	35	57
MIN	2.0	8.9	8.9	11	19	13	13	7.5	4.3	1.7	5.3	7.8
AC-FT	309	729	1130	4280	1420	1000	835	704	448	259	665	1010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1970	10.8	28.0	1984	3.14	1992
1971	15.1	30.9	1981	5.78	1990
1972	15.6	26.0	1981	7.72	1978
1973	21.8	95.4	1980	4.73	1972
1974	38.3	372	1980	7.69	1972
1975	52.9	211	1979	8.08	1971
1976	39.8	150	1973	6.05	1977
1977	42.3	222	1973	5.14	1989
1978	31.7	138	1973	4.85	1972
1979	12.0	40.4	1995	2.72	1977
1980	9.38	30.5	1980	3.10	1989
1981	8.78	26.5	1980	2.80	1990

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1970 - 1997

ANNUAL TOTAL	3857.9	6447.1	24.8
ANNUAL MEAN	10.5	17.7	86.8
HIGHEST ANNUAL MEAN			7.10
LOWEST ANNUAL MEAN			1990
HIGHEST DAILY MEAN	131	544	2040
LOWEST DAILY MEAN	2.0	1.7	0.00
ANNUAL SEVEN-DAY MINIMUM	2.7	2.5	02
ANNUAL RUNOFF (AC-FT)	7650	12790	17960
10 PERCENT EXCEEDS	17	22	50
50 PERCENT EXCEEDS	9.3	12	13
90 PERCENT EXCEEDS	4.2	5.0	4.9

e Estimated

09410100 SANTA CLARA RIVER BELOW WINSOR DAM, NEAR SANTA CLARA, UT

LOCATION.--Lat 37°11'22", long 113°46'02", in NE¹/₄NW¹/₄SW¹/₄ sec. 28, T. 41 S., R. 17 W., Washington County, Hydrologic Unit 15010008, on right bank 1,100 ft downstream from Winsor Dam, 0.6 mi northwest of Shivwits Indian Village, and 7.5 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 and crest-stage gage. Elevation of gage is 3,210 ft above sea level, from topographic map, prior to Mar. 29, 1988, at several sites upstream and downstream at different datums.

REMARKS.--Records good except those for flows less than 2.0 ft³/s and those for estimated daily discharges, which are poor. Flow regulated by Gunlock Reservoir. Several diversions upstream for irrigation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 5,850 ft³/s, flood of 1938 (exact date unknown), gage height, 7.90 ft (datum then in use) from slope area measurement.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,460 ft³/s Mar. 12, 1995, gage height, 20.17 ft from rating curve extended above 1,300 ft³/s on basis of slope-area measurement; no flow several days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 688 ft³/s Sept. 3, gage height, 14.65 ft; no flow Oct. 1-25, 31, Nov. 1-20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.22	.39	19	19	15	12	14	9.6	8.7	11
2	.00	.00	.22	.43	19	20	16	13	13	9.6	9.1	13
3	.00	.00	.22	4.2	16	19	16	14	10	4.4	9.8	55
4	.00	.00	.21	.48	17	19	16	14	13	4.4	33	19
5	.00	.00	.25	.47	20	18	15	14	14	4.1	7.3	9.7
6	.00	.00	.28	.29	20	18	15	14	14	5.1	2.7	8.9
7	.00	.00	.26	.25	20	18	15	13	15	5.5	3.5	7.5
8	.00	.00	.28	.25	20	17	15	15	15	6.2	5.9	6.7
9	.00	.00	.33	.27	20	17	14	16	15	6.2	12	11
10	.00	.00	1.8	.31	20	18	15	18	17	6.6	17	12
11	.00	.00	.44	.31	21	18	14	18	16	7.3	14	12
12	.00	.00	.37	.45	21	18	14	16	13	9.0	6.3	10
13	.00	.00	.37	.60	16	18	14	16	13	13	5.6	9.6
14	.00	.00	.34	.40	20	18	14	16	13	12	5.5	16
15	.00	.00	.34	.35	18	17	14	15	13	8.5	7.8	15
16	.00	.00	.37	.39	14	18	14	18	13	8.2	10	7.1
17	.00	.00	.34	.36	14	18	15	18	13	7.6	11	5.1
18	.00	.00	.34	.39	14	17	13	16	13	6.3	12	4.9
19	.00	.00	.33	.40	15	18	12	15	11	6.8	13	4.8
20	.00	.00	.35	.42	15	17	12	15	11	7.5	14	4.9
21	.00	4.7	e.37	.45	12	16	12	15	11	8.4	14	5.1
22	.00	16	e.37	.50	9.7	16	12	13	8.4	8.9	13	9.4
23	.00	4.7	e.37	1.0	11	16	12	13	7.7	8.9	13	10
24	.00	.26	.36	.57	14	16	12	13	9.4	8.7	13	10
25	.00	.18	.38	.60	17	15	12	14	8.4	8.5	13	12
26	.01	.15	.39	7.3	20	15	12	14	8.1	8.4	13	19
27	.02	.17	.41	4.1	21	15	12	13	8.0	8.6	12	.62
28	.02	.19	.40	17	20	15	12	13	8.2	10	12	.23
29	.01	.22	.39	19	---	15	12	13	8.4	6.9	13	.14
30	.01	.22	.41	19	---	15	12	13	8.9	8.0	12	.09
31	.00	---	.41	19	---	15	---	13	---	8.7	11	---
TOTAL	0.07	26.79	11.92	99.93	483.7	529	408	453	355.5	241.9	347.2	309.78
MEAN	.002	.89	.38	3.22	17.3	17.1	13.6	14.6	11.9	7.80	11.2	10.3
MAX	.02	16	1.8	19	21	20	16	18	17	13	33	55
MIN	.00	.00	.21	.25	9.7	15	12	12	7.7	4.1	2.7	.09
AC-FT	.1	53	24	198	959	1050	809	899	705	480	689	614

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1997, BY WATER YEAR (WY)

	MEAN	3.39	5.47	3.38	14.1	35.2	53.6	44.9	39.7	35.0	18.2	15.3	10.6
MAX	27.1	43.6	35.2	158	366	260	169	157	168	46.2	33.9	29.1	
(WY)	1984	1984	1984	1980	1980	1995	1978	1973	1983	1983	1980	1980	
MIN	.000	.000	.000	.000	.000	.14	6.08	5.06	8.03	.90	.33	.000	
(WY)	1978	1978	1991	1975	1975	1977	1977	1977	1991	1990	1990	1977	

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1973 - 1997

ANNUAL TOTAL	3153.70	3266.79	
ANNUAL MEAN	8.62	8.95	23.1
HIGHEST ANNUAL MEAN			90.1
LOWEST ANNUAL MEAN			3.76
HIGHEST DAILY MEAN	49	55	1530
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
ANNUAL RUNOFF (AC-FT)	6260	6480	16760
10 PERCENT EXCEEDS	16	18	50
50 PERCENT EXCEEDS	10	9.8	12
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

VIRGIN RIVER BASIN
09413000 SANTA CLARA RIVER AT ST. GEORGE, UT

153

LOCATION.--Lat 37°04'31", long 113°35'32", in SE¹/₄SW¹/₄NE¹/₄ sec. 1, T. 43 S., R. 16 W., Washington County, Hydrologic Unit 15010008 on right bank 0.8 mi upstream from mouth and 2 mi south of St. George.

DRAINAGE AREA.--541 mi².

PERIOD OF RECORD.--October 1950 to September 1956, November 1984 to current year.

GAGE.--Water-stage recorder. Crest-stage gage since Jan. 27, 1993. Elevation of gage is 2,560 ft above sea level, from topographic map. October 1950 to September 1956, gage located 0.25 mi downstream; November 1984 to September 1989, 0.5 mi downstream from present site, both at different datum.

REMARKS.--Records fair except those for estimated daily discharges and those for flows less than 2.0 ft³/s, which are poor. Flow regulated by reservoirs and many diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,000 ft³/s Mar. 12, 1995, gage height, 14.60 ft, from rating curve extended above 2,800 ft³/s. No flow at times in 1951, 1953, 1955-56, 1989, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4860 ft³/s Jan. 3, gage height, 14.09 ft; minimum daily discharge, 0.83 ft³/s July 13

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.6	5.2	4.8	22	12	9.0	4.8	2.3	1.9	2.4	2.1
2	2.2	2.5	5.2	4.8	22	13	9.7	4.8	2.4	1.9	2.8	6.2
3	2.2	2.4	5.1	328	21	13	14	4.8	2.2	2.1	3.0	37
4	2.2	2.4	5.2	17	20	13	14	5.6	2.2	2.3	22	29
5	2.0	2.3	5.4	14	22	11	12	5.2	2.5	2.6	9.7	8.8
6	2.0	2.2	5.5	12	23	10	13	4.1	2.6	1.7	3.5	5.1
7	2.2	2.4	5.4	11	22	9.0	11	4.0	2.8	2.1	2.6	4.3
8	2.0	2.6	5.3	11	22	10	8.8	4.0	2.7	1.4	2.4	2.8
9	2.1	2.5	5.6	11	22	12	7.0	4.4	2.4	1.2	1.8	2.8
10	2.1	2.6	11	12	22	12	7.5	5.7	e2.2	.87	11	2.8
11	1.5	2.4	6.4	10	22	9.3	7.9	7.2	e2.0	1.4	5.2	3.1
12	1.7	2.5	5.7	14	22	8.5	7.9	3.8	e2.0	1.2	3.5	2.3
13	1.7	2.2	5.4	21	20	9.4	6.6	4.0	e2.0	.83	3.1	2.2
14	2.0	2.2	5.3	13	22	11	6.1	3.3	e2.0	1.7	2.9	2.5
15	1.6	3.4	5.1	11	23	7.8	6.4	3.3	e2.0	1.6	2.4	9.6
16	2.0	2.9	5.2	11	20	8.6	6.0	3.3	e2.0	1.2	1.9	5.4
17	2.0	2.8	5.4	11	18	11	6.4	3.2	e2.0	1.4	1.7	3.6
18	2.1	2.6	5.2	11	17	11	6.7	3.1	e2.0	1.4	1.9	3.4
19	2.1	2.9	5.2	11	16	9.8	5.9	3.3	e2.0	.95	2.4	3.8
20	2.1	2.8	5.2	11	15	9.6	4.9	3.6	e1.8	1.3	2.5	3.3
21	2.1	8.9	5.3	11	14	9.8	5.0	2.9	e1.6	1.8	2.0	3.1
22	2.3	87	5.4	11	10	10	5.3	2.9	e1.6	2.0	2.7	3.0
23	2.5	22	5.2	13	9.3	10	5.4	2.9	e1.3	3.1	2.4	3.4
24	2.8	8.1	5.1	11	8.8	10	5.6	3.1	e1.3	3.3	2.2	2.6
25	3.7	6.1	5.0	12	8.5	7.3	5.2	2.8	e1.3	2.1	2.2	3.2
26	3.5	5.1	5.1	35	8.5	8.3	5.3	4.5	e1.3	2.1	2.2	36
27	3.9	5.4	5.0	21	16	8.1	6.3	3.4	e1.3	1.9	1.8	6.1
28	4.9	5.4	5.2	18	13	6.3	5.3	2.8	1.3	2.5	1.9	3.6
29	4.0	5.4	5.0	22	---	5.9	5.3	2.3	1.4	2.9	1.5	3.3
30	3.3	5.4	4.9	22	---	7.0	4.9	2.4	1.7	3.1	1.7	3.5
31	4.5	---	5.1	22	---	7.6	---	2.2	---	3.0	1.9	---
TOTAL	77.3	210.0	169.3	747.6	501.1	301.3	224.4	117.7	58.2	58.85	111.2	207.9
MEAN	2.49	7.00	5.46	24.1	17.9	9.72	7.48	3.80	1.94	1.90	3.59	6.93
MAX	4.9	87	11	328	23	13	14	7.2	2.8	3.3	22	37
MIN	1.5	2.2	4.9	4.8	8.5	5.9	4.9	2.2	1.3	.83	1.5	2.1
AC-FT	153	417	336	1480	994	598	445	233	115	117	221	412

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-56, 1986-97 BY WATER YEAR (WY)

	1993	1953	1953	1993	1993	1995	1952	1993	1995	1995	1955	1985
MEAN	3.23	4.69	6.03	13.7	17.4	36.9	20.5	13.8	8.99	4.89	6.86	3.67
MAX	10.3	12.7	14.5	128	136	313	136	80.8	73.5	29.1	38.8	7.10
(WY)	1993	1953	1953	1993	1993	1995	1952	1993	1995	1995	1955	1985
MIN	.22	.59	.91	.82	.79	1.44	1.50	1.09	.31	.36	.055	.29
(WY)	1991	1991	1992	1991	1991	1991	1991	1990	1990	1990	1956	1953

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1951-56, 1986-97

ANNUAL TOTAL	1691.40	2784.85	
ANNUAL MEAN	4.62	7.63	
HIGHEST ANNUAL MEAN			12.0
LOWEST ANNUAL MEAN			56.0
HIGHEST DAILY MEAN	87	Nov 22	1.18
LOWEST DAILY MEAN	.80	Jul 28	2910
ANNUAL SEVEN-DAY MINIMUM	.94	Jul 23	.00
ANNUAL RUNOFF (AC-FT)	3350	5520	.00
10 PERCENT EXCEEDS	7.8	14	18
50 PERCENT EXCEEDS	3.1	4.5	3.6
90 PERCENT EXCEEDS	1.4	1.9	.40

e Estimated

VIRGIN RIVER BASIN

09413200 VIRGIN RIVER NEAR BLOOMINGTON, UT

LOCATION.--Lat 37°04'14", long 113°34'55", in SE¹/₄NW¹/₄SW¹/₄ sec. 6, T. 43 S., R. 15 W., Washington County, Hydrologic Unit 15010010, on left bank 0.2 mi downstream from mouth of Santa Clara River, 0.2 mi upstream from I-15 bridge, and about 1.5 mi northeast of Bloomington.

DRAINAGE AREA.--3,994 mi².

PERIOD OF RECORD.--September 1977 to current year.

REVISED RECORD.--WDR-UT-92-1: Drainage area.

GAGE.--Water-stage recorder. Crest-stage gage since May 9, 1989. Elevation of gage is 2,530 ft above sea level, from topographic map. Prior to Sept. 19, 1978 at site 1.5 mi downstream at different datum.

REMARKS.--Records fair except those for flows less than 60 ft³/s, which are poor. Considerable regulation and many diversions upstream from station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,000 ft³/s (estimated on basis of slope conveyance) Jan. 1, 1989, gage height, 25.70 ft, result of Quail Creek reservoir dike failure; minimum daily discharge, 9.5 ft³/s Sept. 5, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,240 ft³/s Jan. 3, gage height, 9.58 ft; minimum daily discharge, 12 ft³/s Aug. 21-24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	211	122	101	271	191	166	179	e24	16	40	32
2	42	132	117	98	274	187	187	167	e26	18	40	69
3	60	98	99	1700	265	191	169	153	e26	16	45	117
4	62	102	91	681	245	193	192	162	e24	16	132	304
5	45	98	94	297	253	185	174	148	e26	17	176	279
6	50	85	93	222	248	171	160	130	e31	19	137	239
7	70	84	119	181	241	170	153	132	31	18	109	176
8	79	82	110	168	241	153	144	119	31	17	69	159
9	62	85	122	164	250	165	141	107	28	13	44	268
10	35	89	495	157	244	167	133	97	28	13	838	217
11	41	90	564	162	245	138	124	112	19	17	675	154
12	47	85	273	172	242	145	137	115	23	16	384	123
13	41	87	146	228	236	150	147	75	25	19	245	82
14	41	84	115	236	233	137	136	76	30	20	131	171
15	39	85	108	218	237	121	111	72	51	24	66	2020
16	61	87	103	217	231	156	106	62	59	19	33	624
17	68	93	104	214	231	170	118	68	47	19	32	298
18	61	99	101	213	e220	146	132	94	25	17	29	248
19	87	99	98	213	215	128	150	79	49	17	28	189
20	113	97	99	229	225	138	175	68	23	19	e17	121
21	111	143	99	244	219	135	206	88	18	23	e12	131
22	105	1020	98	242	206	160	241	75	18	23	e12	109
23	115	816	101	273	205	165	234	59	17	96	e12	79
24	116	277	97	321	203	150	227	e52	17	56	e12	83
25	156	170	96	277	184	147	183	52	15	38	e14	112
26	183	131	95	792	171	127	164	59	16	32	13	1320
27	172	120	101	750	205	132	164	e49	16	27	14	426
28	210	117	97	396	214	146	182	e46	14	31	17	219
29	233	116	97	308	---	166	193	e39	15	63	16	164
30	205	120	99	287	---	174	184	e33	19	74	21	133
31	224	---	97	274	---	158	---	e28	---	52	18	---
TOTAL	2977	5002	4250	10035	6454	4862	4933	2795	791	865	3431	8666
MEAN	96.0	167	137	324	231	157	164	90.2	26.4	27.9	111	289
MAX	233	1020	564	1700	274	193	241	179	59	96	838	2020
MIN	35	82	91	98	171	121	106	28	14	13	12	32
AC-FT	5900	9920	8430	19900	12800	9640	9780	5540	1570	1720	6810	17190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1997, BY WATER YEAR (WY)

	MEAN	123	169	182	252	326	427	452	510	190	86.5	102	103
MAX	322	286	350	695	1642	1124	1335	1839	1146	244	246	326	326
(WY)	1984	1984	1984	1989	1980	1995	1993	1983	1983	1984	1982	1980	1980
MIN	44.4	51.4	71.5	64.7	56.1	48.8	47.2	29.5	22.1	20.5	25.1	31.7	31.7
(WY)	1991	1991	1991	1991	1991	1990	1990	1990	1996	1990	1991	1996	1996

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1978 - 1997

ANNUAL TOTAL	38879	55061	243	
ANNUAL MEAN	106	151	628	1980
HIGHEST ANNUAL MEAN			61.0	1991
LOWEST ANNUAL MEAN				
HIGHEST DAILY MEAN	1530	Feb 21	2020	Sep 15
LOWEST DAILY MEAN	14	Jul 25	12	Aug 21
ANNUAL SEVEN-DAY MINIMUM	17	Aug 9	13	Aug 21
ANNUAL RUNOFF (AC-FT)	77120		109200	
10 PERCENT EXCEEDS	207		246	
50 PERCENT EXCEEDS	84		116	
90 PERCENT EXCEEDS	20		19	

e Estimated

VIRGIN RIVER BASIN
09413500 VIRGIN RIVER NEAR ST. GEORGE, UT

155

LOCATION.--Lat 37°00'52", long 113°40'47", in NW¹/₄NE¹/₄SE¹/₄ sec. 30, T. 43 S., R. 16 W., Washington County, Hydrologic Unit 15010010, Bureau of Land Management, on right bank immediately upstream from Beaver Dam Mountains Wilderness Area, and 8.0 mi southwest of St. George.

DRAINAGE AREA.--4,123 mi².

PERIOD OF RECORD.--October 1950 to December 1956, October 1991 to current year.

REVISED RECORDS.--WDR UT-92-1: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 2,400 ft above sea level, from topographic map. October 1950 to December 1956, gage located about 400 ft downstream at different datum.

REMARKS.--Records fair except those for estimated daily discharges and those for flows greater than 1,200 ft³/s, which are poor. Considerable regulation by reservoirs and many diversions for irrigation upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 60,000 ft³/s (estimate revised) Jan. 1, 1989, gage height, about 30.0 ft, result of Quail Creek reservoir dike failure.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft³/s Aug. 25, 1955, gage height 12.70, site and datum then in use; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,020 ft³/s Jan. 3, gage height, 8.07 ft, from rating curve extended above 1,200 ft³/s on basis of slope-area measurements at gage heights 6.84 ft, 7.30 ft, and 11.03 ft; minimum daily discharge, 15 ft³/s Aug. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	246	128	103	325	193	169	211	24	32	40	27
2	48	170	124	104	319	177	200	194	28	28	35	62
3	52	e100	100	1430	318	180	183	173	28	27	36	74
4	74	e110	95	1250	292	184	199	e170	24	30	112	318
5	55	e95	94	431	282	177	189	e165	30	38	180	337
6	55	84	93	246	263	159	166	162	32	41	148	257
7	66	82	e130	171	246	165	166	147	32	37	100	186
8	82	87	e120	148	229	142	161	135	36	34	106	170
9	73	93	e120	150	235	151	157	129	36	26	64	297
10	39	98	e600	142	246	161	150	121	43	23	827	230
11	37	101	e600	146	237	132	133	128	35	26	1240	154
12	50	94	e300	155	245	140	159	150	32	24	588	107
13	41	99	e150	264	221	149	163	96	38	33	e315	85
14	43	97	e130	271	233	137	157	92	40	41	e185	162
15	36	96	e120	238	230	114	125	87	61	52	e150	1840
16	54	97	e120	221	226	147	109	75	62	28	e70	1160
17	64	95	115	216	219	168	130	77	62	29	e60	e340
18	59	e94	117	214	222	144	145	102	55	26	e50	e250
19	66	e94	107	208	209	118	147	97	66	32	e50	e200
20	88	93	107	230	228	144	205	86	43	18	e40	125
21	97	114	e107	262	236	121	290	106	33	23	e38	140
22	89	1050	e107	249	225	145	289	95	29	23	e24	126
23	102	1230	106	281	215	160	256	78	33	74	23	96
24	99	426	107	387	209	141	256	66	30	58	23	97
25	143	236	105	301	161	143	205	69	29	36	25	119
26	173	144	e105	738	158	126	169	77	27	33	22	1390
27	155	130	e104	1170	199	134	190	64	30	29	21	e800
28	218	124	103	662	225	176	219	50	28	30	e22	e300
29	328	120	99	454	---	180	226	45	33	38	23	e180
30	203	121	102	392	---	199	205	41	35	74	23	e140
31	261	---	100	341	---	198	---	32	---	52	15	---
TOTAL	3006	5820	4615	11575	6653	4805	5518	3320	1114	1095	4655	9769
MEAN	97.0	194	149	373	238	155	184	107	37.1	35.3	150	326
MAX	328	1230	600	1430	325	199	290	211	66	74	1240	1840
MIN	36	82	93	103	158	114	109	32	24	18	15	27
AC-FT	5960	11540	9150	22960	13200	9530	10940	6590	2210	2170	9230	19380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-56, 1992-97, BY WATER YEAR (WY)

	MEAN	134	165	219	249	339	366	360	98.2	60.6	123	74.2
MAX	171	217	287	519	869	1232	1312	1300	543	127	522	326
(WY)	1995	1996	1994	1993	1993	1995	1952	1993	1995	1995	1955	1997
MIN	22.8	65.2	64.5	120	88.1	69.3	38.3	6.86	.000	10.1	4.30	.000
(WY)	1951	1992	1957	1992	1951	1956	1953	1953	1951	1952	1956	1956

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1951-56, 1992-97

ANNUAL TOTAL	39775	61945	190
ANNUAL MEAN	109	170	472
HIGHEST ANNUAL MEAN			73.7
LOWEST ANNUAL MEAN			1993
HIGHEST DAILY MEAN	1420	Feb 21	1840
LOWEST DAILY MEAN	12	Jul 4	15
ANNUAL SEVEN-DAY MINIMUM	13	Jul 2	22
ANNUAL RUNOFF (AC-FT)	78890	122900	137600
10 PERCENT EXCEEDS	206	289	383
50 PERCENT EXCEEDS	81	120	101
90 PERCENT EXCEEDS	18	30	.00

e Estimated

09413900 BEAVER DAM WASH NEAR ENTERPRISE, UT

LOCATION.--Lat 37°28'12", long 114°02'45", in NW¹/₄SW¹/₄NW¹/₄ sec. 24, T. 38 S., R. 20 W., Washington County, Hydrologic Unit 15010010, Bureau of Land Management, on left bank 0.4 mi downstream from Nevada-Utah State line and about 19 mi southwest of Enterprise.

DRAINAGE AREA.--58 mi².

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 4,760 ft above sea level, from topographic map.

REMARKS.--Records fair except for discharges less than 2.0 ft³/s and estimated days, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,740 ft³/s Mar. 11, 1995, gage height, 10.14 ft from floodmarks, from rating curve extended above 230 ft³/s on basis of slope-area measurement at gage height 9.56 ft. No flow Aug. 8, 10, 1994.

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)
Dec. 11	0500	100	4.92	Sept. 3	1830	58	4.54
Jan. 3	1115	139	5.23	Sept. 26	0700	*169	*5.44
Jan. 26	2000	126	5.13				

Minimum discharge, 0.05 ft³/s July 23, gage height 3.44 ft

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.78	2.5	2.1	4.1	11	6.9	6.9	5.2	4.0	.27	.30	.22
2	.84	2.3	2.1	4.6	11	7.0	7.1	5.2	3.3	.26	.31	.29
3	.96	2.0	2.1	61	10	7.2	7.3	5.3	3.5	.21	.31	16
4	1.1	1.9	2.1	21	9.0	7.2	7.5	5.3	3.4	.20	.48	13
5	1.1	2.1	2.1	10	8.7	7.0	7.3	4.9	3.4	.19	1.1	5.3
6	1.3	2.1	2.1	7.3	8.2	6.9	7.0	5.0	4.1	.18	.99	3.5
7	1.6	2.1	2.1	6.3	7.8	6.9	7.0	5.0	4.3	.16	.69	2.6
8	1.5	2.1	2.1	5.9	7.2	7.0	7.1	5.1	4.5	.14	.55	2.3
9	1.4	2.0	2.2	5.6	7.4	7.2	7.5	4.7	4.2	.16	.55	2.1
10	1.3	1.8	7.4	5.4	7.4	7.4	7.7	4.4	4.4	.18	.60	2.1
11	1.3	1.9	65	5.3	7.2	7.7	7.5	5.1	4.1	.19	.99	1.9
12	1.3	1.9	13	5.3	7.2	8.3	7.7	4.7	4.0	.20	.96	1.8
13	1.4	2.0	6.5	5.8	7.2	8.8	7.3	4.8	3.8	.16	.83	1.7
14	1.4	2.0	e5.0	5.9	7.2	8.8	7.4	4.8	4.0	.14	.69	1.7
15	1.4	2.0	e4.5	5.6	7.2	8.7	7.4	4.7	4.5	.13	.54	2.3
16	1.5	2.0	e4.0	5.2	7.2	8.7	7.4	4.7	4.9	.13	.50	2.2
17	1.5	2.0	e3.8	5.1	7.3	8.9	7.5	4.4	4.5	.12	.43	2.1
18	1.4	2.0	e3.8	4.9	7.7	9.0	7.5	4.2	3.4	.10	.36	2.2
19	1.3	2.1	e3.8	5.1	7.6	9.4	7.6	4.6	2.4	.10	.32	2.3
20	1.3	2.2	e3.8	5.4	8.0	9.6	7.8	5.0	2.1	.09	.31	2.2
21	1.8	2.2	e3.8	5.8	7.7	9.6	7.5	5.2	1.5	.08	.30	2.1
22	1.8	8.2	e4.5	5.9	7.2	9.4	7.5	5.2	1.1	.07	.30	2.0
23	1.8	8.5	e4.0	7.6	7.2	9.4	7.6	5.1	1.1	.06	.31	1.9
24	1.9	4.1	3.9	9.5	7.1	9.2	7.2	5.2	1.1	.07	.26	1.8
25	2.0	2.8	3.7	14	6.9	8.4	7.3	5.2	.76	.10	.18	2.0
26	2.0	2.4	3.6	81	6.9	8.1	6.1	4.8	.65	.14	.14	72
27	2.1	2.3	3.8	73	7.2	8.1	4.0	4.6	.51	.15	.13	11
28	2.4	2.2	4.0	36	7.0	7.9	4.5	4.7	.45	.17	.13	6.4
29	2.3	2.2	4.1	20	---	7.7	5.0	4.8	.36	.18	.16	4.2
30	2.2	2.1	4.1	13	---	7.2	5.2	4.7	.30	.21	.17	3.3
31	2.4	---	4.1	11	---	6.9	---	4.6	---	.23	.19	---
TOTAL	48.38	78.0	183.2	461.6	218.7	250.5	209.4	151.2	84.63	4.77	14.08	174.51
MEAN	1.56	2.60	5.91	14.9	7.81	8.08	6.98	4.88	2.82	.15	.45	5.82
MAX	2.4	8.5	65	81	11	9.6	7.8	5.3	4.9	.27	1.1	72
MIN	.78	1.8	2.1	4.1	6.9	6.9	4.0	4.2	.30	.06	.13	.22
AC-FT	96	155	363	916	434	497	415	300	168	9.5	28	346

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1997, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
MEAN	2.23	3.31	4.89	17.8	34.5	47.6	13.6	5.70	2.74	.91	.89	1.87
MAX	3.12	4.33	9.59	55.2	115	128	30.6	9.75	5.44	2.54	1.43	5.82
(WY)	1995	1996	1997	1998	1999	2000	1993	1995	1995	1995	1992	1997
MIN	1.56	2.60	2.43	3.61	4.55	4.09	3.48	2.18	.65	.15	.20	.64
(WY)	1997	1997	1992	1994	1996	1996	1996	1996	1996	1997	1996	1996

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1992 - 1997

ANNUAL TOTAL	910.49	1878.97	11.2
ANNUAL MEAN	2.49	5.15	29.0
HIGHEST ANNUAL MEAN			2.48
LOWEST ANNUAL MEAN			939
HIGHEST DAILY MEAN	65	81	939
LOWEST DAILY MEAN	10	.06	.00
ANNUAL SEVEN-DAY MINIMUM	11	.08	.05
ANNUAL RUNOFF (AC-FT)	1810	3730	8130
10 PERCENT EXCEEDS	4.1	8.3	17
50 PERCENT EXCEEDS	2.1	4.0	3.5
90 PERCENT EXCEEDS	.19	.23	.53

e Estimated

VIRGIN RIVER BASIN

157

09414900 BEAVER DAM WASH AT BEAVER DAM, AZ

LOCATION.--Lat 36°54'07", long 113°55'58", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, T. 40 N., R. 15 W., Mojave County, Hydrologic Unit 15010010, Bureau of Land Management, on upstream end of bridge pier at Beaver Dam, AZ.

DRAINAGE AREA.--575 mi².

PERIOD OF RECORD.--February 1993 to September 1994, October 1995 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,850 ft above sea level, from bench mark on bridge.

REMARKS.--Records poor, which includes estimated days.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,940 ft³/s Feb. 10, 1993, gage height, 7.14 ft, from rating curve extended above 2,220 ft³/s; minimum daily discharge 0.76 ft³/s Sept. 6, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1370 ft³/s Nov. 22, gage height, 9.89 ft from floodmarks; minimum daily discharge, 1.9 ft³/s Apr. 8, July 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.6	2.3	3.2	2.4	2.1	2.1	3.0	2.6	2.4	2.2	2.4
2	2.4	2.6	2.3	3.1	2.6	2.2	2.0	3.0	2.6	2.2	2.1	2.4
3	2.3	2.6	2.3	3.9	2.6	2.3	2.1	2.9	2.6	2.4	2.1	2.7
4	2.3	2.6	2.3	3.5	2.7	2.4	2.0	3.0	2.6	2.9	2.2	2.4
5	2.3	2.6	2.3	3.4	2.7	2.4	2.0	2.9	2.5	2.9	2.2	2.3
6	2.3	2.6	2.2	3.4	2.6	2.4	2.0	2.9	2.5	2.4	2.3	2.5
7	2.3	2.6	2.3	3.4	2.6	2.4	2.0	2.9	2.5	2.1	2.2	2.7
8	2.4	2.6	2.3	3.4	2.6	2.4	1.9	2.9	2.6	2.2	2.2	2.7
9	2.4	2.6	2.4	3.4	2.6	2.3	2.4	2.9	2.6	2.0	2.2	2.5
10	2.4	2.6	2.4	3.4	2.6	2.3	2.7	2.9	2.5	1.9	2.3	2.5
11	2.4	2.7	3.6	3.4	2.6	2.3	2.8	2.9	2.5	2.0	2.2	2.5
12	2.3	2.7	3.9	3.5	2.6	2.3	2.8	2.9	2.6	2.0	2.3	2.4
13	2.3	2.7	3.8	3.5	2.6	2.3	2.8	2.9	2.6	2.0	2.2	2.3
14	2.3	2.7	3.8	3.5	2.6	2.3	2.8	2.8	2.7	2.0	2.2	2.3
15	2.4	2.8	3.6	3.4	2.6	2.3	2.8	2.8	2.7	2.0	2.2	2.5
16	2.4	2.7	3.5	3.5	2.6	2.3	2.8	2.8	2.7	2.1	2.3	2.5
17	2.4	2.7	3.4	3.5	2.7	2.3	2.8	2.8	2.6	2.1	2.3	2.3
18	2.4	2.6	3.4	3.5	2.7	2.3	2.8	2.9	2.6	2.1	2.3	2.3
19	2.4	2.6	3.4	3.5	2.7	2.2	2.8	2.8	2.6	2.1	2.3	2.2
20	2.4	2.5	3.4	3.5	2.6	2.2	2.8	2.9	2.5	2.1	2.3	2.1
21	2.4	2.6	e3.4	3.5	2.6	2.2	2.8	2.8	2.5	2.1	2.3	2.2
22	2.4	14	e3.3	3.5	2.6	2.1	2.8	2.8	2.5	2.1	2.3	2.3
23	2.5	3.3	e3.3	3.5	2.5	2.1	2.8	2.8	2.5	2.1	2.3	2.5
24	2.5	3.0	3.2	3.5	2.4	2.1	2.8	2.8	2.5	2.1	2.3	2.4
25	2.5	3.0	3.2	3.5	2.3	2.0	2.8	2.8	2.5	2.1	2.4	2.3
26	2.5	3.0	3.2	3.9	2.2	2.0	2.8	2.6	2.5	2.1	2.3	2.5
27	2.6	3.0	3.2	6.3	2.2	2.0	2.8	2.4	2.5	2.2	2.3	2.7
28	2.6	2.9	3.1	2.2	2.1	2.0	2.8	2.5	2.5	2.2	2.3	2.6
29	2.6	2.6	3.1	2.1	---	2.0	2.8	2.5	2.5	2.2	2.4	2.5
30	2.6	2.3	3.1	2.2	---	2.1	2.9	2.6	2.5	2.2	2.4	2.4
31	2.7	---	3.2	2.2	---	2.1	---	2.5	---	2.1	2.4	---
TOTAL	75.2	92.4	94.2	105.3	71.2	68.7	77.3	86.9	76.7	67.4	70.3	72.9
MEAN	2.43	3.08	3.04	3.40	2.54	2.22	2.58	2.80	2.56	2.17	2.27	2.43
MAX	2.7	14	3.9	6.3	2.7	2.4	2.9	3.0	2.7	2.9	2.4	2.7
MIN	2.3	2.3	2.2	2.1	2.1	2.0	1.9	2.4	2.5	1.9	2.1	2.1
AC-FT	149	183	187	209	141	136	153	172	152	134	139	145

e Estimated

GREAT SALT LAKE BASIN

10010000 GREAT SALT LAKE AT STATE PARK SALT AIR BEACH BOAT HARBOR, UT

LOCATION (REVISED).--Lat 40°43'53", long 112°12'46", in NE 1/4 SW 1/4 NW 1/4 sec. 17, T. 1 S., R. 3 W., Salt Lake County, Hydrologic Unit 16020310, at State Park Saltair 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 Aug. 9, 1989 because of highway construction. Gage relocated to boat harbor marina on Aug. 9, 1989).

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. WDR-UT-95-1: 1984-94.

GAGE.--Water-stage recorder at Boat Harbor since October 1938. Datum at gage since September 15, 1970 is 4,186.80 ft above sea level. 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 above sea level, November 1877 to November 1879 at Farmington Bay at 4,206.9 ft above sea level, November 1879 to April 1881 near Black Rock at 4,203.1 ft above sea level, April 1881 to December 1899 at Garfield Landing at 4,198.5 ft above sea level, October 1902 to July 1903, at Midlake on Lucin cutoff of Southern Pacific Railroad, 30 mi west of Ogden, at 4,197.9 ft above sea level, and July 1903 to October 1938 at Saltair at 4,196.9 ft above sea level. Datums since September 15, 1970, from levels run to USGS/National Geodetic Survey Benchmark C-174 (1970).

REMARKS.--Wind effects may cause substantial changes in hourly elevations, which are shown in the published mean daily elevations after October 1989. Samples for specific gravity and temperature were collected from water surface near the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 4,211.60 ft June 3, 1986, Apr. 1, 15, 1987; minimum, 4,191.35 ft Oct. 15, Nov. 1, 1963. Maximum elevation prior to June 3, 1986, 4,211.6 ft in 1873, computed from traditional data by G. K. Gilbert and E. C. LaRue.

Date	Temperature, water (Deg. C)	Specific Gravity (20.0°C)	Percent Salinity
Oct. 1, 1996	19.5	1.090	13.1
Oct. 28	10.0	1.092	13.4
Jan. 29, 1997	3.5	1.060	9.0
Mar. 19	10.5	1.079	11.6
May 6	20.0	1.077	11.3
July 24	20.5	1.071	10.5
Aug. 27	22.0	1.072	10.7

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4198.9	4198.7	4199.0	4199.3	4200.0	4200.4	4200.8	4201.3	4201.6	4201.6	4201.2	4200.7
2	4198.9	4198.8	4198.9	4199.4	4200.0	4200.5	4200.9	4201.2	4201.5	4201.7	4201.2	4200.7
3	4198.9	4198.8	4198.9	4199.5	4200.1	4200.5	4200.8	4201.2	4201.5	4201.6	4201.1	4200.7
4	4198.9	4198.7	4198.9	4199.5	4200.1	4200.5	4200.9	4201.2	4201.5	4201.6	4201.1	4200.7
5	4198.9	4198.8	4198.9	4199.6	4200.2	4200.4	4200.9	4201.2	4201.6	4201.6	4201.2	4200.7
6	4198.9	4198.8	4199.0	4199.6	4200.3	4200.5	4200.8	4201.2	4201.6	4201.5	4201.2	4200.7
7	4198.9	4198.7	4199.0	4199.5	4200.1	4200.5	4200.8	4201.3	4201.6	4201.6	4201.1	4200.6
8	4198.9	4198.8	4199.0	4199.5	4200.2	4200.5	4200.8	4201.3	4201.6	4201.5	4201.1	4200.6
9	4198.9	4198.8	4199.0	4199.5	4200.2	4200.5	4200.9	4201.3	4201.6	4201.5	4201.1	4200.6
10	4198.9	4198.8	4199.0	4199.6	4200.2	4200.5	4200.9	4201.3	4201.5	4201.5	4201.0	4200.6
11	4198.9	4198.8	4199.0	4199.7	4200.2	4200.5	4200.8	4201.3	4201.6	4201.5	4201.0	4200.7
12	4198.9	4198.8	4199.1	4199.6	4200.3	4200.6	4200.9	4201.3	4201.6	4201.5	4201.0	4200.6
13	4198.8	4198.8	4199.2	4199.6	4200.2	4200.6	4200.9	4201.3	4201.7	4201.5	4201.0	4200.5
14	4198.9	4198.9	4199.2	4199.6	4200.2	4200.6	4200.9	4201.3	4201.7	4201.4	4201.0	4200.4
15	4198.8	4198.8	4199.1	4199.6	4200.2	4200.6	4200.9	4201.3	4201.7	4201.4	4201.0	4200.4
16	4199.0	4198.8	4199.3	4199.7	4200.2	4200.6	4200.9	4201.4	4201.7	4201.4	4201.0	4200.6
17	4198.8	4198.7	4199.3	4199.7	4200.3	4200.6	4200.9	4201.4	4201.7	4201.4	4200.9	4200.5
18	4198.8	4198.7	4199.1	4199.7	4200.3	4200.6	4200.9	4201.4	4201.7	4201.4	4200.9	4200.6
19	4198.8	4198.8	4199.1	4199.7	4200.4	4200.6	4200.9	4201.4	4201.8	4201.4	4200.9	4200.6
20	4198.8	4198.8	4199.1	4199.7	4200.4	4200.7	4200.9	4201.3	4201.8	4201.4	4200.9	4200.5
21	4198.8	4198.8	4199.2	4199.7	4200.4	4200.7	4200.9	4201.3	4201.8	4201.3	4200.9	4200.6
22	4198.7	4198.9	4199.3	4199.7	4200.4	4200.7	4200.9	4201.3	4201.8	4201.3	4200.9	4200.6
23	4198.7	4198.9	4199.2	4199.8	4200.4	4200.7	4201.0	4201.3	4201.9	4201.3	4200.8	4200.6
24	4198.7	4198.9	4199.1	4199.7	4200.4	4201.0	4201.1	4201.4	4201.8	4201.3	4200.9	4200.6
25	4198.9	4198.9	4199.2	4199.7	4200.4	4200.7	4201.0	4201.5	4201.7	4201.3	4200.9	4200.6
26	4198.8	4199.0	4199.1	4199.8	4200.4	4200.8	4201.1	4201.4	4201.7	4201.3	4200.8	4200.6
27	4198.8	4198.9	4199.1	4199.8	4200.4	4200.8	4201.0	4201.4	4201.6	4201.3	4200.8	4200.6
28	4198.8	4199.0	4199.2	4199.9	4200.6	4200.8	4201.1	4201.5	4201.7	4201.3	4200.7	4200.6
29	4198.7	4199.2	4199.2	4199.9	---	4200.8	4201.2	4201.5	4201.7	4201.2	4200.8	4200.6
30	4198.7	4199.0	4199.3	4199.9	---	4200.7	4201.1	4201.5	4201.7	4201.2	4200.7	4200.6
31	4198.8	---	4199.3	4200.0	---	4200.8	---	4201.5	---	4201.2	4200.7	---
MEAN	4198.8	4198.8	4199.1	4199.7	4200.3	4200.6	4200.9	4201.3	4201.7	4201.4	4201.0	4200.6
MAX	4199.0	4199.2	4199.3	4200.0	4200.6	4201.0	4201.2	4201.5	4201.9	4201.7	4201.2	4200.7
MIN	4198.7	4198.7	4198.9	4199.3	4200.0	4200.4	4200.8	4201.2	4201.5	4201.2	4200.7	4200.4

WTR YR 1997 MEAN 4200.1 MAX 4201.3 MIN 4198.4

e Estimated

GREAT SALT LAKE BASIN

159

10010050 GREAT SALT LAKE AT PROMONTORY POINT, UT

LOCATION (Revised).--Lat 41°12'10", long 112°25'33", in SW¹/₄NW¹/₄SW¹/₄ sec. 33, T. 6 N., R. 5 W., Box Elder County, Hydrologic Unit 16020310, 2.3 mi east of Saline at the southern most tip of the Promontory Peninsula.

PERIOD OF RECORD.--October 1968 to September 1982, December 1996 to September 1997.

REVISED RECORDS.--WDR UT-75-1: 1968-75.

GAGE.--Water-stage recorder on pier of boat harbor at the southern most tip of the Promontory Peninsula since December 10, 1996. Datum of gage since December 10, 1996 is 4,190.00 ft. above sea level. October 1968 to September 1982, gage located 4.6 miles west of current location, on the southeast end of the Southern Pacific Railroad causeway at a datum of 4,190.13 ft. above sea level. Both datums from levels run to USGS Benchmarks 72-77 FMK 1966.

REMARKS.--Wind effects may cause substantial changes in hourly elevations, which are shown in the published mean daily elevations after December 1996. Samples for specific gravity and temperature were collected from water surface near the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 4,202.25 ft. May 15, June 1, 1976; minimum, 4,194.30 ft. Oct. 1, Oct. 15, 1969.

Date	Temperature, water (Deg. C)	Specific Gravity (20.0°C)	Percent Salinity
Jan. 28, 1997	1.0	1.076	11.2
Mar. 18.	10.0	1.072	10.7
May 6.	16.0	1.067	10.0
June 10	22.0	1.073	10.9
Sept. 9	23.0	1.067	9.93

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	4198.8	4199.4	4199.9	e4200.1	4200.6	4200.9	4201.1	4200.6	4200.2
2	---	---	---	4198.9	4199.4	4199.9	e4200.1	4200.6	4201.0	4201.0	4200.6	4200.2
3	---	---	---	4198.8	4199.5	4199.9	4200.3	4200.6	4201.0	4201.1	4200.6	4200.2
4	---	---	---	4198.9	4199.4	4199.9	4200.2	e4200.7	4201.1	4201.0	4200.6	4200.2
5	---	---	---	4198.8	4199.5	4200.0	4200.2	e4200.7	4201.0	4201.0	4200.6	4200.1
6	---	---	---	4198.9	4199.4	4200.0	4200.2	4200.7	4201.0	4201.0	4200.6	4200.1
7	---	---	---	4199.0	4199.5	4200.0	4200.3	4200.7	4201.0	4201.0	4200.6	4200.2
8	---	---	---	4199.0	4199.5	4200.0	4200.3	4200.7	4201.0	4201.0	4200.5	4200.1
9	---	---	---	4199.0	4199.5	4200.0	4200.2	4200.7	4201.1	4201.0	4200.5	4200.1
10	---	---	---	4199.0	4199.6	4200.0	4200.3	4200.7	4201.2	4200.9	4200.4	4200.1
11	---	---	---	4199.0	4199.6	4200.0	4200.3	4200.8	4201.2	4200.9	4200.5	4200.1
12	---	---	e4198.5	4199.1	4199.6	4200.0	4200.3	4200.7	4201.2	4200.9	4200.5	4200.1
13	---	---	4198.5	4199.1	4199.6	4200.0	4200.4	4200.8	4201.1	4200.9	4200.5	4200.1
14	---	---	4198.5	4199.1	4199.6	4200.0	4200.4	4200.8	4201.2	4200.9	4200.5	4200.1
15	---	---	4198.6	4199.1	4199.7	4200.0	4200.4	4200.8	4201.2	4200.9	4200.5	4200.1
16	---	---	4198.4	4199.1	4199.7	4200.0	4200.4	4200.8	4201.3	4200.9	4200.4	4199.9
17	---	---	4198.5	4199.1	4199.7	4200.1	4200.4	4200.7	4201.3	4200.9	4200.4	4200.0
18	---	---	4198.5	4199.1	4199.7	4200.1	4200.4	4200.8	4201.3	4200.8	4200.4	4199.9
19	---	---	4198.5	4199.1	4199.8	4200.1	4200.4	4200.8	4201.3	4200.8	4200.4	4200.0
20	---	---	4198.6	4199.2	4199.7	4200.1	4200.4	4200.9	4201.3	4200.8	4200.4	4200.0
21	---	---	4198.6	4199.2	4199.7	4200.1	4200.4	4200.9	4201.2	4200.8	4200.4	4200.0
22	---	---	4198.6	4199.2	4199.7	4200.1	4200.4	4200.8	4201.3	4200.8	4200.4	4200.0
23	---	---	4198.6	4199.2	4199.7	4200.1	4200.4	4200.8	4201.1	4200.8	4200.4	4200.0
24	---	---	4198.7	4199.2	4199.7	4200.0	4200.4	4200.8	4201.2	4200.8	4200.3	4200.0
25	---	---	4198.7	4199.3	4199.8	4200.1	4200.5	4200.9	4201.2	4200.7	4200.3	4200.0
26	---	---	4198.8	4199.3	4199.8	4200.2	4200.5	4201.0	4201.2	4200.7	4200.3	4200.0
27	---	---	4198.8	4199.3	4199.8	4200.1	4200.5	4201.0	4201.3	4200.7	4200.3	4200.0
28	---	---	4198.8	4199.3	4199.7	4200.1	4200.5	4201.0	4201.2	4200.7	4200.3	4200.0
29	---	---	4198.8	4199.4	---	4200.2	4200.5	4200.9	4201.2	4200.7	4200.2	4200.0
30	---	---	4198.8	4199.4	---	4200.2	4200.5	4201.0	4201.2	4200.7	4200.2	4200.0
31	---	---	4198.8	4199.4	---	e4200.3	---	4201.0	---	4200.7	4200.2	---
MEAN	---	---	---	4199.1	4199.6	4200.0	4200.4	4200.8	4201.2	4200.9	4200.4	4200.1
MAX	---	---	---	4199.4	4199.8	4200.3	4200.5	4201.0	4201.3	4201.1	4200.6	4200.2
MIN	---	---	---	4198.8	4199.4	4199.9	4200.1	4200.6	4200.9	4200.7	4200.2	4199.9

WTR YR 1997 MEAN 4200.1 MAX 4201.3 MIN 4198.4

e Estimated

GREAT SALT LAKE BASIN

10010100 GREAT SALT LAKE NEAR SALINE, UT

LOCATION (Revised).--Lat 41°15'19", long 112°29'46", in NE¹/₄NE¹/₄NW¹/₄ 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. WDR UT-96-1: 1990-95, gage datum.

GAGE.--Water-stage recorder on pier of boat harbor. Datum of gage since August 1, 1996 is 4,186.70 ft above sea level. April 1966 to August 1, 1996 at datum 4,189.80 ft. above sea level. Both datums from levels run to USGS Benchmarks 72-77 FMK 1966.

REMARKS.--Wind effects may cause substantial changes in hourly elevations, which are shown in the published mean daily elevations after October 1989. Samples for specific gravity and temperature were collected from water surface near the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 4,210.95 ft Apr. 7-29, 1987; minimum, 4,192.65 ft Oct. 15, Nov. 1, 1966.

Date	Temperature, water (Deg. C)	Specific Gravity (20.0°C)	Percent Salinity
Oct. 1, 1996	20.0	1.223	28.9
Oct. 28	10.5	1.219	28.5
Jan. 28, 1997	3.0	1.206	27.1
Mar. 18.	10.5	1.206	27.1
May 6	20.5	1.198	26.2
June 10.	23.0	1.207	27.2
Sept. 9	24.5	1.213	27.9

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4197.0	4196.8	4196.9	4197.1	4197.5	4197.7	4198.1	4198.5	4198.6	4198.7	4198.6	4198.5
2	4197.0	4196.8	4197.0	4197.1	4197.5	4197.8	4198.0	4198.3	4198.6	4198.7	4198.7	4198.6
3	4196.9	4196.8	4196.9	4197.3	4197.6	4197.8	4198.0	4198.3	4198.4	4198.7	4198.6	4198.7
4	4196.9	4196.8	4196.9	4197.2	4197.5	4197.8	4198.1	4198.3	4198.6	4198.7	4198.6	4198.7
5	4196.9	4196.9	4196.9	4197.3	4197.7	4197.8	4198.1	4198.3	4198.6	4198.6	4198.7	4198.7
6	4196.9	4196.8	4196.9	4197.2	4197.7	4197.8	4197.9	4198.4	4198.7	4198.7	4198.7	4198.6
7	4197.0	4196.8	4196.9	4197.2	4197.5	4197.8	4197.9	4198.4	4198.6	4198.7	4198.7	4198.6
8	4196.9	4196.8	4196.9	4197.2	4197.5	4197.9	4197.9	4198.4	4198.6	4198.7	4198.7	4198.7
9	4196.9	4196.8	4196.9	4197.2	4197.5	4197.8	4198.0	4198.4	4198.6	4198.6	4198.7	4198.7
10	4196.9	4196.8	4196.9	4197.2	4197.5	4197.8	4198.0	4198.4	4198.6	4198.8	4198.7	4198.7
11	4196.9	4196.8	4197.0	4197.4	4197.6	4197.8	4197.9	4198.4	4198.6	4198.7	4198.7	4198.7
12	4197.0	4196.8	4197.0	4197.3	4197.6	4197.9	4197.9	4198.4	4198.6	4198.8	4198.6	4198.7
13	4196.9	4196.8	4197.1	4197.3	4197.6	4198.0	4197.9	4198.4	4198.6	4198.7	4198.7	4198.6
14	4197.0	4196.9	4197.1	4197.3	4197.5	4197.9	4198.0	4198.4	4198.7	4198.7	4198.7	4198.6
15	4196.9	4196.9	4197.0	4197.3	4197.6	4197.9	4198.1	4198.4	4198.7	4198.7	4198.7	4198.7
16	4197.0	4196.8	4197.1	4197.3	4197.6	4197.9	4198.1	4198.4	4198.7	4198.7	4198.7	4198.6
17	4196.9	4196.8	4197.0	4197.3	4197.6	4198.0	4198.1	4198.5	4198.7	4198.8	4198.7	4198.6
18	4196.8	4196.8	4197.0	4197.3	4197.7	4197.9	4198.1	4198.5	4198.7	4198.9	4198.6	4198.7
19	4196.9	4196.8	4197.0	4197.3	4197.6	4197.9	4198.2	4198.5	4198.7	4198.8	4198.7	4198.6
20	4196.9	4196.8	4197.0	4197.3	4197.7	4197.9	4198.2	4198.3	4198.8	4198.7	4198.6	4198.6
21	4196.8	4196.8	e4197.0	4197.3	4197.7	4198.0	4198.2	4198.4	4198.7	4198.7	4198.6	4198.6
22	4196.8	4196.9	e4197.0	4197.3	4197.8	4198.0	4198.2	4198.4	4198.9	4198.7	4198.6	4198.7
23	4196.8	4196.9	e4197.0	4197.4	4197.8	4198.0	4198.2	4198.4	4198.9	4198.7	4198.6	4198.7
24	4196.8	4196.9	4197.0	4197.4	4197.7	4198.3	4198.4	4198.5	4198.7	4198.7	4198.7	4198.7
25	4197.0	4196.9	4197.0	4197.4	4197.7	4198.0	4198.3	4198.6	4198.7	4198.7	4198.7	4198.7
26	4196.9	4197.0	4197.0	4197.4	4197.7	4197.9	4198.2	4198.5	4198.6	4198.7	4198.6	4198.6
27	4196.9	4196.9	4197.0	4197.5	4197.8	4198.1	4198.2	4198.5	4198.6	4198.7	4198.6	4198.7
28	4196.9	4196.9	4197.1	4197.4	4198.0	4198.0	4198.3	4198.5	4198.6	4198.7	4198.6	4198.7
29	4196.8	4197.1	4197.1	4197.5	---	4198.0	4198.5	4198.5	4198.6	4198.7	4198.7	4198.7
30	4196.8	4196.9	4197.1	4197.5	---	4198.0	4198.4	4198.5	4198.8	4198.7	4198.7	4198.7
31	4196.9	---	4197.1	4197.5	---	4198.0	---	4198.5	---	4198.6	4198.6	---
MEAN	4196.9	4196.8	4197.0	4197.3	4197.6	4197.9	4198.1	4198.4	4198.7	4198.7	4198.7	4198.7
MAX	4197.0	4197.1	4197.1	4197.5	4198.0	4198.3	4198.5	4198.6	4198.9	4198.9	4198.7	4198.7
MIN	4196.8	4196.8	4196.9	4197.1	4197.5	4197.7	4197.9	4198.3	4198.4	4198.6	4198.6	4198.5

WTR YR 1997 MEAN 4197.9 MAX 4198.9 MIN 4196.8

e Estimated

BEAR RIVER BASIN

161

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 Elevation of gage is 7,965 ft above sea level, from river-profile map. Prior to Oct. 1, 1986 at datum 3.0 ft lower.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,230 ft³/s June 6, 1986, gage height, 4.05 ft; maximum gage height, 4.28 ft June 19, 1983, datum then in use; minimum, 6.8 ft³/s April 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)
May 18	0200	1,840	6.57	June 5	0200	*2,090	*6.75

Minimum daily discharge, 38 ft³/s Feb. 8, 22, 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	54	58	e55	e49	e46	63	192	1690	388	153	81
2	55	53	52	e55	e46	e43	59	168	1670	352	141	94
3	56	57	e44	e53	e44	e48	67	171	1490	325	139	103
4	56	55	e44	e49	e42	e48	68	219	1690	310	146	101
5	54	54	e44	e48	e44	e45	63	321	1750	297	167	95
6	53	47	e48	e48	e42	e44	60	416	1590	281	151	98
7	52	60	e48	e50	e40	e42	61	497	1490	271	133	96
8	51	60	e50	e55	e38	e46	61	539	1470	269	118	94
9	55	59	e49	e53	e40	e42	62	615	1710	258	112	93
10	54	57	e50	e55	e40	e44	59	730	1790	246	116	103
11	53	58	e52	e52	e46	e48	54	832	1540	236	135	126
12	53	59	e52	e46	e49	e49	51	948	1390	245	122	119
13	52	59	e51	e50	e45	e47	51	1060	1250	220	121	99
14	57	56	e52	e50	e46	e46	51	1170	1140	192	106	101
15	54	47	e46	e44	e48	e48	55	1370	1000	176	99	113
16	54	54	e50	e46	e52	e52	62	1490	965	170	93	150
17	48	48	e42	e42	e54	e55	78	1490	981	184	90	112
18	53	65	e40	e44	e55	e53	103	1680	1150	213	88	118
19	59	65	e48	e45	e50	e50	126	1520	1340	226	84	258
20	52	62	e50	e45	e44	57	159	1450	1320	215	80	200
21	56	58	e55	e43	e40	64	192	1360	1180	200	90	178
22	53	67	e53	e41	e38	63	158	1360	1070	199	82	170
23	58	63	e49	e40	e40	68	140	1350	909	220	85	168
24	53	54	e48	e40	e39	66	133	1350	743	232	86	155
25	58	62	e50	e46	e38	59	128	1040	615	193	77	145
26	54	42	e53	e42	e45	68	149	791	546	180	73	212
27	51	54	e55	e44	e48	68	197	637	507	177	78	192
28	62	72	e54	e42	e51	63	258	585	478	177	73	145
29	61	55	e52	e44	---	63	253	706	451	185	76	137
30	58	54	e55	e42	---	64	204	855	419	160	74	126
31	56	---	e60	e42	---	66	---	1240	---	159	73	---
TOTAL	1696	1710	1554	1451	1253	1665	3225	28152	35334	7156	3261	3982
MEAN	54.7	57.0	50.1	46.8	44.8	53.7	108	908	1178	231	105	133
MAX	62	72	60	55	55	68	258	1680	1790	388	167	258
MIN	48	42	40	40	38	42	51	168	419	159	73	81
AC-FT	3360	3390	3080	2880	2490	3300	6400	55840	70080	14190	6470	7900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1943	62.4	208	1983	30.8	1959
1944	54.2	106	1984	32.5	1955
1945	46.7	94.9	1984	27.7	1960
1946	42.0	72.4	1984	29.6	1991
1947	40.2	64.3	1984	25.3	1964
1948	43.6	69.0	1986	26.0	1964
1949	111	316	1946	37.2	1944
1950	600	1044	1984	162	1977
1951	873	1990	1986	204	1992
1952	303	1105	1995	67.4	1961
1953	94.9	244	1965	37.5	1954
1954	73.7	229	1983	23.9	1956

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1943 - 1997

ANNUAL TOTAL	78924	90439	
ANNUAL MEAN	216	248	
HIGHEST ANNUAL MEAN			196
LOWEST ANNUAL MEAN			335
HIGHEST DAILY MEAN	1970	1790	81.5
LOWEST DAILY MEAN	29	38	1977
ANNUAL SEVEN-DAY MINIMUM	33	41	21
ANNUAL RUNOFF (AC-FT)	156500	179400	141800
10 PERCENT EXCEEDS	648	955	614
50 PERCENT EXCEEDS	64	63	58
90 PERCENT EXCEEDS	42	44	34

e Estimated

10015700 SULPHUR CREEK ABOVE RESERVOIR, BELOW LA CHAPELLE CREEK, NEAR EVANSTON, WY

LOCATION.--Lat 41°07'45", long 110°48'21", in NE¹/₄SE¹/₄SW¹/₄ sec. 2, T. 13 N., R. 119 W., Uinta County, Hydrologic Unit 16010101, on right bank 0.2 mi downstream from La Chapelle Creek, 3.3 mi upstream from Sulphur Creek Dam, and 12.8 mi southeast of Evanston.

DRAINAGE AREA.--64.2 mi².

PERIOD OF RECORD.--October 1957 to September 30, 1997. Monthly discharge only for October and November 1957, published in WSP 1734. October 1957 to October 1987 not equivalent because of inflow between sites. October 1987 to October 1989 at present site at different datum. (discontinued)

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,240 ft above sea level, from topographic map. Prior to October 7, 1987 at site 1.3 mi downstream at different datum.

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

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 some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 246 ft³/s April 16 and June 12, gage height, 7.19 ft; minimum daily discharge, 0.65 ft³/s Oct. 1, 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.65	9.9	9.2	e17	e14	e15	e28	63	22	4.2	13	3.2
2	.65	9.6	8.1	e16	e15	e17	e28	65	26	5.7	9.3	1.2
3	.66	9.8	11	e16	e13	e17	e29	47	25	6.5	7.2	1.2
4	.88	11	9.9	e17	e13	e16	e32	39	19	8.5	13	1.3
5	.90	13	9.4	e17	e15	e15	e36	57	17	11	49	1.3
6	.84	17	8.4	e17	e13	e16	e39	82	22	10	29	1.4
7	.83	12	9.4	e16	e12	e17	e36	93	23	13	16	1.8
8	.71	14	11	e14	e11	e19	e34	93	51	11	10	2.2
9	.85	19	12	e12	e11	e18	e34	89	135	11	7.3	2.4
10	1.0	20	12	e11	e11	e19	e38	92	111	5.2	9.5	2.4
11	1.0	19	14	e10	e13	e20	e42	96	67	4.2	26	2.4
12	1.1	18	12	e9.9	e13	e20	e44	91	95	14	24	2.2
13	1.0	20	13	e9.2	e15	e20	e45	92	152	20	15	1.4
14	1.1	21	14	e8.5	e14	e20	e47	95	65	9.0	9.8	1.4
15	1.2	23	19	e8.0	e15	e20	e51	94	59	7.1	7.7	1.5
16	1.7	12	e17	e7.5	e15	e21	132	84	50	6.9	5.9	4.2
17	2.1	8.8	e16	e7.5	e15	e23	133	79	41	3.8	5.2	5.0
18	2.3	21	e14	e7.5	e14	e22	103	66	29	4.0	4.9	5.2
19	3.4	50	e14	e8.0	e14	e21	91	48	24	12	4.6	13
20	3.6	26	e15	e9.2	e14	e21	96	36	17	17	5.0	16
21	5.0	15	e15	e9.2	e14	e21	87	29	14	10	5.0	15
22	4.4	27	e14	e8.0	e15	e22	60	30	11	8.5	5.0	28
23	9.4	26	e14	e7.5	e15	e22	56	26	7.7	19	4.7	26
24	7.4	19	e14	e8.5	e14	e24	77	35	6.9	78	5.0	14
25	7.5	15	e14	e11	e14	e23	61	45	6.6	29	4.8	13
26	6.5	14	e16	e10	e16	e26	37	34	5.8	16	4.5	15
27	8.0	8.4	e16	e12	e17	e30	48	25	4.5	16	4.1	15
28	6.6	8.9	e17	e11	e15	e29	89	18	5.6	17	3.9	10
29	8.0	8.8	e18	e12	---	e28	133	19	4.4	18	3.2	9.5
30	9.2	8.7	e17	e12	---	e28	79	25	4.3	17	2.6	8.4
31	9.7	---	e17	e13	---	e28	---	21	---	17	1.7	---
TOTAL	108.17	504.9	420.4	352.5	390	658	1845	1808	1120.8	429.6	315.9	224.6
MEAN	3.49	16.8	13.6	11.4	13.9	21.2	61.5	58.3	37.4	13.9	10.2	7.49
MAX	9.7	50	19	17	17	30	133	96	152	78	49	28
MIN	.65	8.4	8.1	7.5	11	15	28	18	4.3	3.8	1.7	1.2
AC-FT	215	1000	834	699	774	1310	3660	3590	2220	852	627	445

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1988	2.16	6.77	1992	.18	1991
1989	5.18	16.8	1997	.59	1991
1990	5.09	13.6	1997	1.17	1991
1991	5.08	11.4	1997	1.11	1991
1992	7.46	22.2	1995	1.18	1991
1993	24.0	52.7	1989	2.80	1991
1994	40.5	69.5	1996	15.6	1995
1995	49.1	154	1993	11.4	1992
1996	23.8	55.3	1995	3.18	1994
1997	7.19	20.7	1995	.18	1988
1998	2.59	10.2	1997	.017	1988
1999	1.28	7.49	1997	.000	1988

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1988 - 1997

ANNUAL TOTAL	6608.20	8177.87	
ANNUAL MEAN	18.1	22.4	
HIGHEST ANNUAL MEAN			14.5
LOWEST ANNUAL MEAN			25.1
HIGHEST DAILY MEAN	250	152	394
LOWEST DAILY MEAN	.21	.65	.00
ANNUAL SEVEN-DAY MINIMUM	.27	.77	.00
ANNUAL RUNOFF (AC-FT)	13110	16220	10480
10 PERCENT EXCEEDS	45	56	41
50 PERCENT EXCEEDS	9.4	14	4.5
90 PERCENT EXCEEDS	.83	3.3	.22

e Estimated

BEAR RIVER BASIN

163

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.--May 1984 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 6,730 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream affected by storage reservoirs, diversions for irrigation, and return flow from irrigated areas. Results of discharge measurements, in cubic feet per second, made during the period when the station was not in operation, are given below:

Oct. 2 . . . 32.2
Mar. 27 . . . 437

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	352	539	1570	203	56	78
2	---	---	---	---	---	---	300	481	1700	182	55	79
3	---	---	---	---	---	---	275	474	1560	147	47	82
4	---	---	---	---	---	---	390	429	1610	100	71	68
5	---	---	---	---	---	---	350	504	1670	86	292	65
6	---	---	---	---	---	---	272	603	1520	66	198	62
7	---	---	---	---	---	---	261	730	1400	55	117	58
8	---	---	---	---	---	---	295	776	1370	68	72	58
9	---	---	---	---	---	---	339	834	1770	103	51	57
10	---	---	---	---	---	---	264	962	1960	76	59	57
11	---	---	---	---	---	---	263	1050	1740	73	129	59
12	---	---	---	---	---	---	277	1090	1530	88	114	69
13	---	---	---	---	---	---	280	1220	1710	107	87	61
14	---	---	---	---	---	---	298	1260	1420	85	71	40
15	---	---	---	---	---	---	327	1480	1260	65	50	35
16	---	---	---	---	---	---	446	1650	1110	55	37	37
17	---	---	---	---	---	---	577	1610	1170	48	32	70
18	---	---	---	---	---	---	593	1770	1150	40	31	57
19	---	---	---	---	---	---	565	1710	1290	50	37	87
20	---	---	---	---	---	---	599	1670	1290	61	33	215
21	---	---	---	---	---	---	649	1520	1100	54	50	164
22	---	---	---	---	---	---	575	1490	979	47	52	139
23	---	---	---	---	---	---	536	1450	817	63	57	148
24	---	---	---	---	---	---	583	1480	607	116	65	132
25	---	---	---	---	---	---	575	1360	487	98	61	113
26	---	---	---	---	---	---	487	1050	399	66	77	105
27	---	---	---	---	---	---	501	874	346	56	71	196
28	---	---	---	---	---	---	612	767	304	48	68	150
29	---	---	---	---	---	---	694	784	275	69	69	115
30	---	---	---	---	---	---	614	938	228	59	71	107
31	---	---	---	---	---	---	---	1190	---	62	77	---
TOTAL	---	---	---	---	---	---	13149	33745	35342	2496	2357	2763
MEAN	---	---	---	---	---	---	438	1089	1178	80.5	76.0	92.1
MAX	---	---	---	---	---	---	694	1770	1960	203	292	215
MIN	---	---	---	---	---	---	261	429	228	40	31	35
AC-FT	---	---	---	---	---	---	26080	66930	70100	4950	4680	5480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
MEAN	---	---	---	---	---
MAX	---	---	---	---	---
(WY)	---	---	---	---	---
MIN	---	---	---	---	---
(WY)	---	---	---	---	---

SUMMARY STATISTICS

HIGHEST DAILY MEAN
LOWEST DAILY MEAN
INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS

FOR 1997 WATER YEAR*

1960 Jun 10
31 Aug 18
2080 Jun 10
5.48 Jun 10
--
--
--

WATER YEARS 1984 - 1997*

3160 May 16 1984
3.8 Sep 30 1992
3680 May 16 1984
7.35 May 16 1984
1050
162
25

* During period of operation.

BEAR RIVER BASIN

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°26'04", long 111°01'01", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ 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. Elevation of gage is 6,455 ft above sea level, 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,150 ft³/s June 2, 1983, gage height, 6.17 ft; minimum, no flow several days during Aug. and Sept. 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,960 ft³/s June 11, gage height, 5.12 ft; minimum daily discharge, 9.30 ft³/s Sept. 15, 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	49	100	e100	e129	e160	e280	739	1060	166	22	45
2	16	44	103	e102	e120	e180	e325	706	1410	153	20	53
3	16	40	99	e103	e112	e180	e310	635	1510	120	19	55
4	15	43	108	e100	e110	e150	e300	576	1380	97	16	56
5	16	57	94	e100	e120	e160	e318	589	1440	73	93	47
6	15	60	91	e98	e107	e155	e325	631	1440	64	143	48
7	13	47	103	e97	e95	e150	e340	722	1280	46	82	53
8	13	57	e104	e100	e85	e190	e340	816	1230	32	42	47
9	13	57	e110	e105	e87	e170	e400	852	1370	37	28	46
10	12	59	e100	e118	e89	e188	e450	890	1670	43	35	43
11	12	54	e103	e108	e100	e205	e440	946	1910	36	70	38
12	12	51	e108	e90	e118	e220	e420	986	1590	41	166	38
13	11	53	e110	e93	e118	e230	e455	1050	1600	65	110	51
14	10	41	e97	e95	e110	e220	e480	1170	1550	65	91	43
15	9.3	43	e78	e100	e120	e215	e518	1290	1360	44	68	29
16	9.3	30	e90	e90	e129	e232	e551	1460	1170	36	50	26
17	11	19	e75	e95	e140	e250	626	1570	1140	30	41	43
18	16	27	e69	e90	e150	e270	739	1550	1090	22	37	48
19	19	74	e80	e95	e130	e250	733	1710	1120	20	35	64
20	19	110	e80	e100	e123	e240	743	1590	1190	23	37	196
21	24	84	e100	e90	e115	e232	780	1480	1080	26	30	173
22	24	72	e90	e100	e110	e230	754	1380	915	26	35	141
23	25	123	e90	e100	e129	e245	674	1310	747	26	38	140
24	34	86	e90	e90	e118	e260	701	1270	550	39	53	137
25	50	51	e90	e100	e110	e240	792	1330	415	64	54	131
26	52	58	e90	e128	e140	e260	685	1020	331	44	42	122
27	44	37	e100	e100	e190	e275	606	786	269	35	46	164
28	38	33	e110	e110	e170	e250	643	653	237	29	38	160
29	42	65	e106	e118	---	e270	750	589	211	26	39	124
30	56	94	e102	e100	---	e290	866	689	194	35	30	113
31	52	---	e100	e139	---	e268	---	804	---	31	29	---
TOTAL	715.6	1718	2970	3154	3374	6835	16344	31789	32459	1594	1639	2474
MEAN	23.1	57.3	95.8	102	121	220	545	1025	1082	51.4	52.9	82.5
MAX	56	123	110	139	190	290	866	1710	1910	166	166	196
MIN	9.3	19	69	90	85	150	280	576	194	20	16	26
AC-FT	1420	3410	5890	6260	6690	13560	32420	63050	64380	3160	3250	4910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1997, BY WATER YEAR (WY)

	MEAN	74.3	70.6	71.2	67.9	84.8	164	349	821	881	201	50.8	51.4
MAX	437	198	181	147	312	627	671	1957	2564	1191	340	288	
(WY)	1983	1974	1984	1984	1986	1986	1969	1984	1986	1995	1983	1983	
MIN	3.03	6.06	7.21	6.76	13.8	26.8	77.7	104	54.6	4.84	2.26	.49	
(WY)	1965	1989	1989	1989	1993	1977	1977	1977	1992	1988	1988	1988	

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1962 - 1997

ANNUAL TOTAL	83348.07	105065.6	241
ANNUAL MEAN	228	288	583
HIGHEST ANNUAL MEAN			1986
LOWEST ANNUAL MEAN			1977
HIGHEST DAILY MEAN	2130	1910	3900
LOWEST DAILY MEAN	.64	9.3	.00
ANNUAL SEVEN-DAY MINIMUM	.77	11	.00
ANNUAL RUNOFF (AC-FT)	165300	208400	174300
10 PERCENT EXCEEDS	696	962	712
50 PERCENT EXCEEDS	75	102	84
90 PERCENT EXCEEDS	10	27	9.8

e Estimated

BEAR RIVER BASIN

165

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'20", long 111°00'50", in NE 1/4 NE1/4 NW1/4 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 above sea level (levels by Utah Water Resources Division from Bureau of Reclamation bench mark). Prior to Sept. 26, 1962, at site 175 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.

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, 2,380 ft³/s May 20, gage height, 7.08 ft; minimum daily discharge, 22 ft³/s several days in Nov., Dec.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	24	23	23	23	23	590	896	918	848	121	40
2	33	24	23	23	23	23	571	864	1130	842	121	41
3	33	24	23	23	23	23	538	808	1410	834	121	41
4	33	24	23	23	23	23	498	749	1490	825	71	41
5	33	23	23	23	23	23	509	707	1570	823	39	41
6	33	23	23	23	23	23	526	714	1640	816	39	41
7	35	23	23	23	23	23	510	751	1580	810	38	41
8	38	23	23	23	23	23	480	835	1510	804	39	42
9	38	23	23	23	23	23	464	904	1560	792	39	41
10	38	23	23	24	23	23	462	961	1760	784	39	42
11	37	23	23	23	23	23	450	1030	1940	450	40	42
12	38	23	23	24	23	23	436	1080	1910	123	41	42
13	37	23	23	23	23	23	429	1150	1820	122	40	42
14	37	23	23	23	23	23	424	1240	1840	122	40	42
15	36	23	23	24	23	23	410	1370	1700	122	40	41
16	36	23	23	23	23	23	404	1530	1530	122	39	41
17	36	23	23	23	23	23	405	1670	1400	122	39	41
18	36	23	23	23	23	23	462	1720	1330	122	39	41
19	35	22	23	23	23	23	589	1810	1290	122	39	41
20	35	23	23	23	23	23	693	2080	1300	122	38	41
21	34	22	23	23	23	23	764	1960	1300	122	39	41
22	35	23	23	23	23	23	826	1730	1200	121	39	41
23	34	23	23	23	23	23	815	1610	1080	121	39	41
24	33	23	22	23	23	23	851	1530	948	121	39	41
25	34	23	23	23	23	23	869	1540	888	121	39	41
26	33	23	23	23	23	23	866	1430	884	121	39	41
27	29	23	23	23	23	86	794	1230	879	121	39	42
28	26	23	23	23	23	268	757	1090	870	120	39	41
29	25	23	23	23	---	380	811	952	859	121	40	42
30	25	23	23	23	---	727	891	892	854	121	40	42
31	25	---	23	23	---	624	---	898	---	120	40	---
TOTAL	1043	692	712	716	644	2683	18094	37731	40390	11057	1494	1238
MEAN	33.6	23.1	23.0	23.1	23.0	86.5	603	1217	1346	357	48.2	41.3
MAX	38	24	23	24	23	727	891	2080	1940	848	121	42
MIN	25	22	22	23	23	23	404	707	854	120	38	40
AC-FT	2070	1370	1410	1420	1280	5320	35890	74840	80110	21930	2960	2460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1962	55.2	425	1983	3.89	1990
1963	55.0	421	1983	.12	1981
1964	46.7	184	1983	4.28	1978
1965	44.4	153	1985	4.37	1978
1966	47.5	171	1971	4.71	1978
1967	99.6	473	1972	4.70	1978
1968	295	891	1985	.34	1977
1969	795	1828	1984	27.8	1977
1970	1000	2437	1983	396	1977
1971	294	913	1975	20.0	1966
1972	78.5	331	1983	3.91	1979
1973	58.0	278	1983	3.65	1979

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1962 - 1997

ANNUAL TOTAL	91704	116494	239
ANNUAL MEAN	251	319	509
HIGHEST ANNUAL MEAN			44.3
LOWEST ANNUAL MEAN			1977
HIGHEST DAILY MEAN	2120	2080	3630
LOWEST DAILY MEAN	22	22	.00
ANNUAL SEVEN-DAY MINIMUM	23	23	.07
ANNUAL RUNOFF (AC-FT)	181900	231100	173300
10 PERCENT EXCEEDS	897	1110	810
50 PERCENT EXCEEDS	41	39	41
90 PERCENT EXCEEDS	23	23	9.1

10023000 BIG CREEK NEAR RANDOLPH, UT

LOCATION.--Lat 41°36'36", long 111°15'12", in NW¹/₄NW¹/₄NE¹/₄ sec. 15, T. 10 W., R. 6 E., Rich County, Hydrologic Unit 16010101, on left bank 2.7 mi downstream from main forks and 5.2 mi southwest of Randolph.

DRAINAGE AREA.--52.4 mi².

PERIOD OF RECORD.--March 1939 to September 1944 (fragmentary), October 1949 to September 1970. October 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,410 ft above sea level, from topographic map. March 1939 to September 1944 (fragmentary), at site 0.2 mi downstream at different datum, October 1949 to September 1959 at site 200 ft upstream at different datum, September 1959 to September 1970 at site 300 ft upstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 337 ft³/s July 11, 1957, gage height, 3.75 ft, site and datum then in use; minimum discharge, 0.9 ft³/s Aug. 4, 1961.

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 16	0100	*100	*5.94				
Minimum daily discharge, 8.3 ft ³ /s Feb. 15.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	17	e12	e14	e17	e17	17	50	55	39	34	30
2	18	16	e11	e13	e17	e18	17	47	54	39	34	30
3	18	16	e11	e12	e16	e19	17	46	52	39	34	29
4	18	17	e12	e12	e15	e20	17	49	51	39	35	30
5	17	17	e12	e12	e14	e19	16	57	51	38	35	30
6	17	18	e12	e12	e13	e18	16	69	50	38	34	30
7	17	22	e12	e13	e14	e19	16	81	48	38	33	29
8	17	15	e11	e14	e15	e18	16	86	56	37	33	30
9	16	16	e11	e14	e16	e19	16	89	55	37	34	29
10	17	17	e11	e15	e15	e20	16	90	51	37	34	30
11	17	16	e11	e16	e14	e21	16	93	51	38	36	32
12	17	15	e10	e16	e15	e20	16	94	49	40	37	28
13	17	16	9.2	e16	e16	e20	17	94	49	38	34	27
14	17	17	9.1	e15	e17	e21	16	93	50	37	33	27
15	17	16	8.3	e14	e18	e22	16	96	47	37	33	29
16	18	15	e8.9	e14	e17	e22	16	97	46	37	32	27
17	17	17	e9.2	e14	e17	e23	16	94	45	36	32	27
18	17	21	e9.4	e14	e16	e23	18	91	45	36	32	27
19	17	17	e9.7	e15	e16	e22	22	84	44	36	32	28
20	17	16	e10	e14	e15	15	25	78	44	36	31	28
21	17	15	e11	e15	e16	14	28	76	43	36	31	29
22	17	18	e12	e15	e17	13	28	72	43	36	31	27
23	17	16	e13	e14	e16	13	33	68	42	36	31	26
24	17	15	e13	e14	e15	14	33	67	42	36	31	26
25	19	14	e12	e15	e16	15	31	61	41	35	31	26
26	17	16	e12	e16	e17	17	31	57	41	34	30	26
27	17	e15	e12	e16	e19	17	32	55	41	34	30	25
28	17	e14	e13	e15	e18	17	41	54	40	34	30	25
29	16	14	e14	e14	---	17	50	57	40	34	30	25
30	17	16	e14	e15	---	17	49	55	40	34	29	25
31	17	---	e14	e16	---	17	---	54	---	34	30	---
TOTAL	532	490	349.8	444	447	567	698	2254	1406	1135	1006	837
MEAN	17.2	16.3	11.3	14.3	16.0	18.3	23.3	72.7	46.9	36.6	32.5	27.9
MAX	19	22	14	16	19	23	50	97	56	40	37	32
MIN	16	14	8.3	12	13	13	16	46	40	34	29	25
AC-FT	1060	972	694	881	887	1120	1380	4470	2790	2250	2000	1660
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1997, BY WATER YEAR (WY)												
MEAN	11.6	10.7	9.61	8.88	8.83	9.92	15.5	31.2	22.2	16.2	13.5	12.4
MAX	26.3	25.9	23.7	23.4	22.6	22.6	42.3	95.4	62.2	40.3	32.5	28.4
(WY)	1952	1987	1987	1987	1987	1987	1951	1952	1952	1950	1997	1952
MIN	2.14	2.84	2.18	2.17	2.63	2.65	3.56	2.85	1.86	1.48	1.29	1.80
(WY)	1993	1993	1991	1991	1991	1991	1991	1992	1992	1961	1992	1992
SUMMARY STATISTICS			FOR 1996 CALENDAR YEAR				FOR 1997 WATER YEAR			WATER YEARS 1950 - 1997		
ANNUAL TOTAL			8153.2				10165.8					
ANNUAL MEAN			22.3				27.9					
HIGHEST ANNUAL MEAN										14.2		
LOWEST ANNUAL MEAN										32.1		
										3.24		
HIGHEST DAILY MEAN			81				97			140		
LOWEST DAILY MEAN			6.0				8.3			1.0		
ANNUAL SEVEN-DAY MINIMUM			9.1				9.1			1.1		
ANNUAL RUNOFF (AC-FT)			16170				20160			10320		
10 PERCENT EXCEEDS			36				50			28		
50 PERCENT EXCEEDS			18				19			10		
90 PERCENT EXCEEDS			11				13			4.0		

e Estimated

BEAR RIVER BASIN

167

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 (seasonal only). Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,185 ft above sea level, from river-profile map. Oct. 31, 1941 to Nov. 30, 1943, at site 200 ft downstream at different datum.

REMARKS.--Records good. 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 discharge, 1250 ft³/s June 19, gage height 8.65 ft; minimum recorded daily discharge, 147 ft³/s Sept. 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR APRIL 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	1010	961	514	224	152
2	---	---	---	---	---	---	---	1010	869	512	210	153
3	---	---	---	---	---	---	---	1020	788	509	216	153
4	---	---	---	---	---	---	---	1010	693	503	217	149
5	---	---	---	---	---	---	---	982	681	507	245	147
6	---	---	---	---	---	---	---	942	688	503	259	151
7	---	---	---	---	---	---	---	912	704	507	233	152
8	---	---	---	---	---	---	---	878	748	501	214	151
9	---	---	---	---	---	---	---	869	826	482	202	151
10	---	---	---	---	---	---	---	873	879	480	199	150
11	---	---	---	---	---	---	---	876	893	482	207	157
12	---	---	---	---	---	---	---	849	940	524	230	172
13	---	---	---	---	---	---	---	861	1030	595	272	173
14	---	---	---	---	---	---	---	893	1110	573	274	170
15	---	---	---	---	---	---	---	931	1140	596	254	166
16	---	---	---	---	---	---	---	922	1170	538	231	162
17	---	---	---	---	---	---	---	868	1190	462	217	160
18	---	---	---	---	---	---	---	583	913	426	210	165
19	---	---	---	---	---	---	---	597	886	419	203	170
20	---	---	---	---	---	---	---	624	714	1180	399	179
21	---	---	---	---	---	---	---	688	726	1110	362	182
22	---	---	---	---	---	---	---	732	809	1070	343	187
23	---	---	---	---	---	---	---	756	847	1020	322	183
24	---	---	---	---	---	---	---	867	938	967	307	180
25	---	---	---	---	---	---	---	930	1180	883	302	178
26	---	---	---	---	---	---	---	989	1200	794	285	177
27	---	---	---	---	---	---	---	1060	1200	570	274	177
28	---	---	---	---	---	---	---	1080	1180	544	259	188
29	---	---	---	---	---	---	---	1080	1160	513	260	187
30	---	---	---	---	---	---	---	1050	1110	508	242	157
31	---	---	---	---	---	---	---	---	1040	---	241	154
TOTAL	---	---	---	---	---	---	---	29609	26859	13229	6410	5001
MEAN	---	---	---	---	---	---	---	955	895	427	207	167
MAX	---	---	---	---	---	---	---	1200	1200	596	274	188
MIN	---	---	---	---	---	---	---	714	508	241	154	147
AC-FT	---	---	---	---	---	---	---	58730	53270	26240	12710	9920

10032000 SMITHS FORK NEAR BORDER. WY

LOCATION.--Lat 42°17'36", long 110°52'18", in NE¹/₄SW¹/₄SW¹/₄ sec. 28, T. 27 N., R. 118 W., Lincoln County, Hydrologic Unit 16010102, on left bank 4.9 mi upstream from Howland Creek, 5.6 mi downstream from Hobbie Creek, and 12.4 mi northeast of Border.

DRAINAGE AREA.--165 mi².

PERIOD OF RECORD.--May 1942 to current year.

REVISID RECORDS.--WSP 1734: 1952(M).

GAGE.--Water-stage recorder. Elevation of gage is 6,720 ft above sea level, from topographic map. Prior to Oct. 16, 1945, at site 1.2 mi downstream at different datum. Oct. 16, 1945 to Nov. 1986 at site 0.4 mi down-stream at different datum.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. One diversion for irrigation of about 200 acres above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft³/s June 4, 1986, gage height, 5.66 ft; minimum, 21 ft³/s Mar. 29, 1975, Jan. 24, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1650 ft³/s, May 16, gage height, 4.19 ft; minimum daily discharge, 59 ft³/s, Feb. 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	88	74	e96	e75	65	e80	368	1330	600	240	139
2	99	85	75	e98	e78	68	e83	336	1360	577	235	136
3	98	88	e75	e94	e72	67	e83	329	1290	552	229	136
4	98	88	e93	e95	e71	67	e85	384	1330	535	229	133
5	97	89	e91	e85	e74	65	e80	497	1370	507	234	130
6	96	82	e90	e81	e74	65	e85	639	1340	499	234	129
7	94	86	e95	e81	e66	65	e90	726	1310	483	219	125
8	95	85	e91	e84	e63	65	e85	804	1300	466	212	123
9	94	83	e95	e87	e64	64	e81	871	1290	455	209	122
10	95	81	e100	e89	e66	65	e81	994	1220	441	224	121
11	98	82	e95	e83	e77	66	e85	1140	1150	424	222	130
12	96	83	e95	e76	e83	69	e90	1230	1140	459	215	132
13	96	83	e95	e79	e70	68	e95	1320	1110	420	202	122
14	93	81	e87	e79	e72	67	e95	1390	1070	387	194	118
15	94	79	e80	e75	e76	68	e100	1510	1000	365	188	123
16	99	74	e83	e80	e79	71	e105	1500	968	345	184	123
17	93	79	e75	e76	e80	76	e108	1460	995	333	181	116
18	93	90	e72	e75	e73	77	152	1450	1010	330	177	114
19	102	105	e75	e80	e68	78	193	1410	1020	326	173	115
20	95	102	e78	e80	63	80	212	1370	959	323	168	e118
21	90	90	e83	e80	61	80	273	1390	910	308	165	e123
22	93	92	e90	e83	59	79	272	1390	862	302	161	e123
23	94	91	e85	e81	67	79	255	1370	844	286	158	e121
24	93	77	e85	e76	67	81	247	1390	807	287	157	e117
25	101	83	e85	e78	65	e75	224	1340	752	277	153	e114
26	95	68	e95	e80	82	e80	244	1220	720	267	150	e114
27	89	74	e95	e74	77	e80	313	1060	693	260	148	e114
28	89	75	e95	e77	74	e75	418	997	681	257	144	e113
29	91	81	e98	e78	---	e82	450	1020	654	264	142	e115
30	89	73	e90	e73	---	e90	393	1120	629	254	139	e114
31	89	---	e88	e72	---	e84	---	1210	---	246	139	---
TOTAL	2938	2517	2703	2525	1996	2261	5157	33235	31114	11835	5825	3673
MEAN	94.8	83.9	87.2	81.5	71.3	72.9	172	1072	1037	382	188	122
MAX	102	105	100	98	83	90	450	1510	1370	600	240	139
MIN	89	68	72	72	59	64	80	329	629	246	139	113
AC-FT	5830	4990	5360	5010	3960	4480	10230	65920	61710	23470	11550	7290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1997, BY WATER YEAR (WY)

MEAN	91.2	78.5	69.6	63.9	61.5	63.0	162	552	639	298	154	109
MAX	156	113	88.4	85.0	82.8	99.4	385	1072	1377	602	242	166
(WY)	1987	1986	1983	1983	1984	1986	1946	1997	1986	1975	1983	1986
MIN	51.0	50.7	45.3	40.1	38.1	39.5	58.6	99.1	96.2	61.4	55.1	52.1
(WY)	1978	1978	1995	1988	1988	1988	1975	1977	1977	1977	1977	1977

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1943 - 1997

ANNUAL TOTAL	86054		105779			
ANNUAL MEAN	235		290		196	
HIGHEST ANNUAL MEAN					324	1986
LOWEST ANNUAL MEAN					71.1	1977
HIGHEST DAILY MEAN	1360	Jun 10	1510	May 15	2000	Jun 4 1986
LOWEST DAILY MEAN	45	Jan 9	59	Feb 22	32	Dec 6 1993
ANNUAL SEVEN-DAY MINIMUM	53	Jan 5	64	Feb 19	35	Dec 1 1993
ANNUAL RUNOFF (AC-FT)	170700		209800		141700	
10 PERCENT EXCEEDS	721		1000		526	
50 PERCENT EXCEEDS	102		97		91	
90 PERCENT EXCEEDS	61		73		59	

e Estimated

BEAR RIVER BASIN

169

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 September 1996, October 1996 to September 1997 (seasonal).

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,140 ft above sea level, 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.

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 recorded daily discharge, 1750 ft³/s April 29, minimum recorded daily discharge, 161 ft³/s Oct. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO APRIL 1997 and SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	247	229	e240	206	e180	e190	---	---	---	---	351
2	161	241	249	e250	204	e180	e190	---	---	---	---	344
3	170	243	280	e240	202	e170	e193	---	---	---	---	340
4	171	243	249	e225	201	e180	e198	---	---	---	---	339
5	173	243	214	e210	201	e190	e200	---	---	---	---	332
6	175	233	239	e210	201	e170	e230	---	---	---	---	325
7	172	262	216	e220	201	e180	e240	---	---	---	---	322
8	175	238	219	e240	201	e195	e250	---	---	---	---	317
9	178	241	226	e253	201	e168	e280	---	---	---	---	314
10	179	248	233	e240	201	e175	e300	---	---	---	---	315
11	174	245	242	229	201	e185	e360	---	---	---	---	322
12	172	241	236	221	201	e192	e400	---	---	---	---	337
13	168	250	243	220	200	e188	e460	---	---	---	---	345
14	168	250	e230	220	197	e183	e550	---	---	---	---	340
15	168	246	e200	220	197	e180	e650	---	---	---	---	323
16	180	241	e220	220	194	e190	e725	---	---	---	---	337
17	179	243	e190	219	194	e197	e775	---	---	---	---	331
18	179	266	e190	217	190	e198	e850	---	---	---	---	321
19	193	290	e210	217	187	e190	887	---	---	---	---	325
20	195	304	e230	215	185	e180	928	---	---	---	---	337
21	191	288	e250	214	e190	e192	1060	---	---	---	---	352
22	194	295	e230	213	e190	e180	1100	---	---	---	---	350
23	208	306	e210	210	e190	e190	1030	---	---	---	---	346
24	220	276	e220	210	e180	e183	1190	---	---	---	---	334
25	238	278	e220	210	e170	e180	1340	---	---	---	---	327
26	251	267	e240	210	e180	e190	1370	---	---	---	---	326
27	252	223	e240	210	e200	e185	1490	---	---	---	---	327
28	256	222	e240	210	e180	e180	1660	---	---	---	---	322
29	249	235	e250	209	---	e190	1750	---	---	---	---	328
30	247	267	e260	207	---	e190	1680	---	---	---	---	328
31	248	---	e250	208	---	e190	---	---	---	---	---	---
TOTAL	6047	7672	7155	6837	5445	5721	22526	---	---	---	---	9957
MEAN	195	256	231	221	194	185	751	---	---	---	---	332
MAX	256	306	280	253	206	198	1750	---	---	---	---	352
MIN	161	222	190	207	170	168	190	---	---	---	---	314
AC-FT	11990	15220	14190	13560	10800	11350	44680	---	---	---	---	19750

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.

PERIOD OF RECORD.--October 1937 to September 1996, October 1996 to September 1997 (seasonal).

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft above sea level, unadjusted.

REMARKS.--Records good 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.

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 daily discharge, 3,290 ft³/s June 20; maximum gage height, 8.52 ft., May 26, 27, (backwater from Thomas Fork) minimum daily discharge, 138 ft³/s Oct. 1, 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 , NOVEMBER 1996 AND APRIL 1997 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	243	---	---	---	---	1130	1860	2770	1280	540	326
2	138	238	---	---	---	---	1210	1770	2800	1250	507	320
3	145	240	---	---	---	---	1160	1700	2770	1200	487	320
4	147	240	---	---	---	---	1140	1680	2500	1170	484	321
5	149	241	---	---	---	---	1130	1710	2250	1120	502	311
6	149	232	---	---	---	---	1080	1790	2240	1100	546	306
7	148	261	---	---	---	---	1020	1860	2230	1070	535	304
8	148	239	---	---	---	---	1020	1940	2280	1040	498	301
9	150	237	---	---	---	---	1020	2020	2470	987	473	298
10	152	246	---	---	---	---	993	2080	2650	950	477	302
11	149	241	---	---	---	---	938	2190	2810	943	491	313
12	146	238	---	---	---	---	891	2320	2830	1020	491	327
13	144	242	---	---	---	---	868	2390	2870	1120	503	337
14	144	243	---	---	---	---	867	2450	3020	1090	539	331
15	145	241	---	---	---	---	857	2510	3040	1060	535	317
16	156	240	---	---	---	---	870	2650	3040	1030	505	335
17	159	235	---	---	---	---	921	2740	3100	930	477	325
18	153	262	---	---	---	---	991	2750	3180	849	461	309
19	167	282	---	---	---	---	1080	2750	3250	832	451	317
20	173	302	---	---	---	---	1140	2700	3290	805	441	331
21	165	291	---	---	---	---	1280	2540	3250	786	432	366
22	159	291	---	---	---	---	1350	2480	3130	717	412	348
23	166	309	---	---	---	---	1360	2510	2930	699	387	345
24	183	284	---	---	---	---	1440	2550	2710	683	388	336
25	209	275	---	---	---	---	1560	2690	2460	662	381	328
26	245	269	---	---	---	---	1570	2860	2170	630	374	329
27	247	263	---	---	---	---	1640	2870	1830	603	370	326
28	249	269	---	---	---	---	1780	2800	1520	586	358	322
29	245	283	---	---	---	---	1900	2750	1400	575	348	330
30	243	296	---	---	---	---	1910	2750	1340	553	334	331
31	246	---	---	---	---	---	---	2770	---	542	325	---
TOTAL	5358	7773	---	---	---	---	36116	73430	78130	27882	14052	9712
MEAN	173	259	---	---	---	---	1204	2369	2604	899	453	324
MAX	249	309	---	---	---	---	1910	2870	3290	1280	546	366
MIN	138	232	---	---	---	---	857	1680	1340	542	325	298
AC-FT	10630	15420	---	---	---	---	71640	145600	155000	55300	27870	19260

BEAR RIVER BASIN

171

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 above sea level, (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.--Records fair except for estimated daily discharges, Dec. 8, 9, Dec. 18-29, Dec. 31 to Jan. 28, Feb. 8-16, Feb. 21 to Mar. 3, and Mar. 6-26, which are poor. 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.--75 years, 369 ft³/s, 267,340 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	278	221	e236	e194	e167	e188	1120	2170	2750	1260	498	343
2	144	224	e223	e207	e171	e190	1200	2150	2730	1180	486	343
3	148	221	e185	e223	e179	e223	1190	2050	2780	1110	452	343
4	127	221	e175	e249	e170	e220	1160	1970	e2800	1070	416	343
5	129	227	e188	e226	e162	e229	1140	1920	e2750	1020	425	339
6	147	218	e191	e213	e157	e223	1130	1940	e2550	988	443	335
7	148	197	e197	e200	e153	e229	1090	2020	2340	938	470	335
8	151	190	e207	e200	e145	e223	1080	2060	2300	927	467	331
9	151	177	e207	e204	e134	e233	1100	2180	2350	903	442	327
10	153	175	e223	e207	e160	e229	1130	2310	2380	854	443	323
11	147	183	e233	e210	e155	e226	1080	2420	2390	836	462	358
12	144	184	e233	e210	e155	e239	1020	2470	2470	902	472	361
13	143	188	e230	e210	e153	e263	975	2470	2530	990	482	369
14	139	194	e213	e213	e152	283	958	2490	2570	1080	487	380
15	140	199	e213	e236	e150	283	960	2650	2580	1040	511	377
16	145	207	e204	e268	e155	282	961	2810	2640	996	508	319
17	157	206	e197	e278	e154	292	989	2900	2640	950	495	311
18	167	219	e200	e289	e153	346	1020	3160	2620	855	470	311
19	170	240	e200	e278	e161	386	1100	3230	2640	857	454	315
20	177	249	e194	e278	e168	434	1190	3330	2700	845	446	339
21	184	269	e220	e278	e168	539	1260	3130	2760	823	437	388
22	180	276	e240	e268	e167	645	1380	2910	2800	790	429	392
23	180	282	e236	e285	e158	734	1450	2720	2770	746	416	380
24	184	278	e226	e253	e139	899	1520	2690	2680	720	400	392
25	201	266	e220	e236	e142	1360	1600	2690	2530	684	392	380
26	213	260	e210	e233	e139	1500	1680	2760	2300	654	377	392
27	233	e250	e200	e210	e142	1400	1670	2910	2010	610	365	373
28	234	e240	e220	e191	e160	1190	1770	3050	1660	567	365	360
29	233	e236	e220	e188	---	1090	1940	3050	1420	535	361	356
30	234	e236	e191	e189	---	1040	2110	2930	1310	536	360	360
31	278	---	e194	e184	---	1080	---	2810	---	515	352	---
TOTAL	5459	6733	6526	7108	4369	16698	37973	80350	73750	26781	13583	10575
MEAN	176	224	211	229	156	539	1266	2592	2458	864	438	353
MAX	278	282	240	289	179	1500	2110	3330	2800	1260	511	392
MIN	127	175	175	184	134	188	958	1920	1310	515	352	311
AC-FT	10830	13350	12940	14100	8670	33120	75320	159400	146300	53120	26940	20980
CAL YR 1996	TOTAL 187173		MEAN 511		MAX 1870		MIN 53		AC-FT 371300			
WTR YR 1997	TOTAL 289905		MEAN 794		MAX 3330		MIN 127		AC-FT 575000			

e Estimated

BEAR RIVER BASIN

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. Elevation 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, 1,343,000 acre-ft July 9, 10, elevation, 5,922.54 ft; minimum, 836,000 acre-ft Oct. 1-26, elevation, 5,915.22 ft.

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

5,905	179,500	5,917	956,900
5,910	492,300	5,920	1,165,000
5,915	821,000	5,924	1,446,000

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	836	839	876	898	930	945	947	1026	1212	1337	1337	1297
2	836	839	876	900	931	944	950	1031	1220	1340	1336	1296
3	836	839	876	902	932	943	954	1036	1227	1340	1335	1296
4	836	840	876	904	932	942	957	1043	1234	1340	1333	1293
5	836	841	876	906	933	940	960	1047	1238	1340	1333	1291
6	836	842	876	908	934	940	961	1050	1243	1340	1333	1290
7	836	843	876	909	934	938	964	1054	1249	1340	1332	1288
8	836	845	877	909	934	938	967	1057	1255	1342	1331	1285
9	836	847	878	909	935	937	968	1060	1263	1343	1330	1283
10	836	848	878	909	936	936	969	1063	1270	1343	1330	1279
11	836	852	879	910	936	935	971	1067	1276	1342	1330	1276
12	836	849	880	910	937	934	971	1071	1283	1342	1330	1271
13	836	849	881	910	938	932	973	1078	1288	1342	1330	1273
14	836	849	883	911	938	931	974	1083	1292	1342	1330	1269
15	836	849	884	912	938	930	976	1088	1298	1342	1330	1267
16	836	851	885	912	938	928	978	1095	1302	1342	1329	1263
17	836	853	885	913	939	928	980	1101	1306	1342	1329	1262
18	836	857	886	914	940	928	981	1106	1311	1342	1329	1259
19	836	862	887	915	940	928	982	1113	1316	1342	1329	1257
20	836	865	887	915	940	928	984	1120	1321	1342	1327	1257
21	836	868	889	917	941	929	986	1127	1323	1342	1325	1257
22	836	870	889	917	942	929	988	1134	1326	1342	1324	1257
23	836	872	889	919	943	930	991	1138	1330	1341	1322	1257
24	836	872	889	921	943	930	995	1145	1332	1341	1320	1257
25	836	872	890	921	943	933	998	1155	1335	1341	1317	1257
26	836	873	891	922	944	934	1002	1164	1336	1341	1314	1257
27	837	874	892	925	945	936	1007	1174	1337	1340	1310	1257
28	837	875	893	927	945	939	1012	1185	1337	1340	1306	1257
29	838	875	894	928	---	941	1018	1193	1337	1340	1304	1256
30	839	876	895	934	---	943	1023	1200	1337	1340	1302	1254
31	839	---	897	930	---	945	---	1206	---	1338	1298	---
MAX	839	876	897	934	945	945	1023	1206	1337	1343	1337	1297
MIN	836	839	876	898	930	928	947	1026	1212	1337	1298	1254
(#)	5915.26	5915.81	5916.13	5916.60	5916.83	5916.83	5917.96	5920.58	5922.46	5922.47	5921.90	5921.27
(*)	+3	+37	+21	+33	+15	0	+78	+183	+131	+1	-40	-44

CAL YR 1996 (*) +321

WTR YR 1997 (*) +418

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

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

BEAR RIVER BASIN

173

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 above sea level, unadjusted.

REMARKS.--Records fair. 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.--75 years, 405 ft³/s, 293,420 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,080 ft³/s June 19-21, 1986; minimum daily discharge, 1.0 ft³/s for many days in 1937, 1954, 1959, 1961, 1964, 1977-78.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e5.0	e5.0	e5.0	e5.0	e5.0	141	465	572	171	894	1190	1240
2	e5.0	e5.0	e5.0	e5.0	e5.0	142	461	576	176	821	1190	1240
3	e5.0	e5.0	e5.0	e5.0	e5.0	150	452	563	282	853	1200	1250
4	e5.0	e5.0	e5.0	e5.0	e5.0	178	473	552	331	853	1200	1250
5	e5.0	e5.0	e5.0	e5.0	e5.0	150	500	544	464	841	1180	1240
6	e5.0	e5.0	e5.0	e5.0	e5.0	186	488	535	629	834	1040	1240
7	e5.0	e5.0	e5.0	e5.0	e5.0	195	476	530	701	840	909	1230
8	e5.0	e5.0	e5.0	e5.0	e5.0	197	467	527	721	880	925	1230
9	e5.0	e5.0	e5.0	e5.0	e5.0	195	456	523	770	941	931	1230
10	e5.0	e5.0	e5.0	e5.0	e5.0	193	458	527	784	1010	946	1240
11	e5.0	e5.0	e5.0	e5.0	e5.0	191	568	531	802	1020	946	1280
12	e5.0	e5.0	e5.0	e5.0	e5.0	191	615	533	755	1070	942	1320
13	e5.0	e5.0	e5.0	e5.0	e5.0	200	623	527	581	1060	931	1320
14	e5.0	e5.0	e5.0	e5.0	e5.0	182	623	485	497	1070	921	1320
15	e5.0	e5.0	e5.0	e5.0	e5.0	191	622	456	457	1070	963	1320
16	e5.0	e5.0	e5.0	e5.0	e5.0	212	622	446	454	1060	1140	1300
17	e5.0	e5.0	e5.0	e5.0	e5.0	237	618	414	541	1060	1190	1270
18	e5.0	e5.0	e5.0	e5.0	e5.0	303	617	391	561	1070	1180	1260
19	e5.0	e5.0	e5.0	e5.0	e5.0	439	589	374	602	1100	1170	1240
20	e5.0	e5.0	e5.0	e5.0	e5.0	394	588	369	730	1100	1200	1110
21	e5.0	e5.0	e5.0	e5.0	e5.0	384	603	357	819	1110	1290	928
22	e5.0	e5.0	e5.0	e5.0	e5.0	356	582	335	908	1160	1270	758
23	e5.0	e5.0	e5.0	e5.0	e5.0	386	578	157	1000	1160	1250	736
24	e5.0	e5.0	e5.0	e5.0	e5.0	486	609	e5.0	1130	1160	1260	664
25	e5.0	e5.0	e5.0	e5.0	e5.0	412	611	e5.0	1210	1150	1250	822
26	e5.0	e5.0	e5.0	e5.0	e5.0	436	604	e5.0	1250	1150	1240	1080
27	e5.0	e5.0	e5.0	e5.0	e5.0	436	580	e5.0	1260	1150	1240	1040
28	e5.0	e5.0	e5.0	e5.0	126	436	569	e5.0	1200	1150	1240	993
29	e5.0	e5.0	e5.0	e5.0	---	446	568	e5.0	1180	1150	1240	954
30	e5.0	e5.0	e5.0	e5.0	---	448	570	e5.0	1100	1150	1240	832
31	e5.0	---	e5.0	e5.0	---	458	---	e5.0	---	1160	1240	---
TOTAL	155.0	150.0	155.0	155.0	261.0	8951	16655	10864.0	22066	32097	35054	33937
MEAN	5.00	5.00	5.00	5.00	9.32	289	555	350	736	1035	1131	1131
MAX	5.0	5.0	5.0	5.0	126	486	623	576	1260	1160	1290	1320
MIN	5.0	5.0	5.0	5.0	5.0	141	452	5.0	171	821	909	664
AC-FT	307	298	307	307	518	17750	33040	21550	43770	63660	69530	67310

CAL YR 1996 TOTAL 57219.0 MEAN 156 MAX 934 MIN 5.0 AC-FT 113500
WTR YR 1997 TOTAL 160500.0 MEAN 440 MAX 1320 MIN 5.0 AC-FT 318400

e Estimated

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 16010201, 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 recorded. Elevation of gage is 5,900 ft above sea level, from topographic map. Prior to Oct. 1, 1988 at datum 0.35 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Bear Lake (station 10055500) and diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,280 ft³/s June 21, 1986; minimum daily, 23 ft³/s Mar. 14-17, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,870 ft³/s June 26, 27; minimum daily discharge, 84 ft³/s Sept. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	125	200	e210	e316	e355	906	1120	816	1410	1430	1450
2	96	124	182	e203	e319	e504	889	1130	790	1180	1440	1450
3	91	124	183	e200	e322	e552	888	1100	960	1170	1440	1460
4	94	125	176	e210	e320	e579	936	1070	1030	1150	1450	1470
5	98	126	193	e222	e314	e620	950	1050	1190	1090	1450	1460
6	99	129	212	e200	e309	e601	915	1030	1400	1060	1330	1450
7	99	127	204	e185	e308	e640	892	1010	1520	1050	1120	1440
8	99	127	203	e175	e292	e649	924	1020	1550	1120	1110	1440
9	96	124	206	e178	e283	e653	923	1030	1580	1190	1110	1440
10	93	126	218	e190	e270	e644	892	1040	1620	1270	1150	1430
11	90	130	197	e220	e260	e634	997	1050	1660	1300	1160	1460
12	88	133	180	e205	e257	e621	1030	1060	1660	1350	1150	1500
13	88	134	175	e190	e261	e617	1010	1070	1400	1370	1150	1510
14	86	135	225	e180	e276	e596	999	1020	1210	1360	1130	1510
15	84	133	235	e180	e283	e554	1010	1000	1120	1380	1150	1520
16	89	128	268	e174	e282	e562	1030	1010	1080	1340	1330	1510
17	89	126	210	e179	e288	e568	1050	953	1180	1320	1410	1490
18	92	135	164	e191	e289	e626	1050	932	1180	1310	1410	1500
19	97	170	165	e209	e285	e827	1010	954	1180	1350	1400	1510
20	98	175	e175	e225	e280	e970	1020	976	1350	1350	1400	1450
21	96	173	e180	e241	e274	1070	1040	973	1480	1350	1520	1260
22	103	182	e190	e254	e267	1220	1050	954	1570	1400	1540	1020
23	103	184	e195	e267	e249	1170	1080	1010	1650	1420	1500	942
24	105	175	e209	e281	e241	1050	1140	920	1770	1420	1490	909
25	115	165	e213	e280	e243	893	1150	925	1840	1400	1480	955
26	120	150	e215	e283	e239	909	1130	920	1870	1390	1480	1370
27	119	152	e220	e296	e250	937	1080	892	1870	1390	1460	1400
28	120	158	e218	e304	e259	950	1050	859	1770	1390	1460	1330
29	125	184	e213	e310	---	941	1060	810	1700	1400	1460	1290
30	129	193	e218	e315	---	914	1090	790	1690	1390	1460	1240
31	132	---	e220	e316	---	921	---	832	---	1380	1460	---
TOTAL	3123	4372	6262	7073	7836	23347	30191	30510	42686	40450	42030	41166
MEAN	101	146	202	228	280	753	1006	984	1423	1305	1356	1372
MAX	132	193	268	316	322	1220	1150	1130	1870	1420	1540	1520
MIN	84	124	164	174	239	355	888	790	790	1050	1110	909
AC-FT	6190	8670	12420	14030	15540	46310	59880	60520	84670	80230	83370	81650
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1997, BY WATER YEAR (WY)												
MEAN	441	450	468	433	383	386	437	568	933	1175	1012	674
MAX	2039	2134	1788	1340	1710	1707	1678	2106	3413	2918	1955	1696
(WY)	1984	1984	1985	1924	1985	1985	1986	1986	1986	1983	1983	1984
MIN	35.7	58.0	58.1	36.4	29.8	25.4	84.5	184	340	516	511	43.2
(WY)	1978	1935	1936	1936	1936	1936	1990	1989	1932	1938	1936	1977
SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1923 - 1997												
ANNUAL TOTAL	125779			279046			617					
ANNUAL MEAN	344			765			1733			1984		
HIGHEST ANNUAL MEAN							266			1945		
LOWEST ANNUAL MEAN							4280			Jun 21 1986		
HIGHEST DAILY MEAN	1120			Jul 16			1870			Jun 26		
LOWEST DAILY MEAN	56			Feb 2			84			Oct 15		
ANNUAL SEVEN-DAY MINIMUM	65			Jan 18			88			Oct 11		
ANNUAL RUNOFF (AC-FT)	249500			553500			446800					
10 PERCENT EXCEEDS	784			1460			1340					
50 PERCENT EXCEEDS	217			906			492					
90 PERCENT EXCEEDS	79			126			76					

e Estimated

BEAR RIVER BASIN
10075000 BEAR RIVER AT SODA SPRINGS, ID

175

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. Elevation of gage is 5,760 ft above sea level, 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.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream effected 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.--44 years, 706 ft³/s, 511,500 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 discharge, 41 ft³/s Nov. 16, 1979.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	235	e263	335	e215	e190	1070	1470	1310	1610	1380	1410
2	168	232	e273	505	e214	e200	1030	1430	1270	1350	1410	1410
3	174	229	e265	576	e235	e230	1040	1380	1340	1260	1410	1430
4	179	228	e260	446	e230	e245	1100	1350	1460	1250	1410	1440
5	177	229	e222	437	e225	e250	1100	1340	1550	1190	1440	1440
6	179	228	e288	460	e240	e265	1070	1360	1750	1140	1390	1430
7	181	229	e276	537	e235	e300	1040	1360	1900	1120	1210	1420
8	184	233	e283	500	e238	e325	1070	1380	1960	1140	1110	1410
9	187	232	e267	375	e239	e280	1100	1390	2000	1210	1110	1410
10	188	228	e301	326	e236	e300	1060	1430	2040	1290	1150	1400
11	186	229	e333	298	e232	e330	1060	1450	2060	1350	1200	1440
12	183	233	e303	e161	e235	e350	1130	1480	2080	1560	1200	1480
13	181	232	e310	e298	e231	e380	1130	1520	1930	1550	1190	1490
14	182	231	e256	e323	e235	400	1130	1530	1730	1490	1170	1490
15	181	234	e225	e348	e232	375	1170	1520	1600	1460	1160	1490
16	185	229	e363	e373	e224	390	1200	1550	1460	1430	1250	1510
17	185	225	e250	e371	e228	470	1270	1570	1460	1390	1370	1480
18	186	257	e405	e267	e220	540	1300	1540	1540	1370	1410	1470
19	203	317	e474	e217	e224	678	1290	1550	1530	1380	1400	1500
20	202	312	e421	e282	e230	766	1280	1550	1570	1400	1380	1490
21	200	293	e368	e314	e234	854	1340	1670	1680	1380	1440	1440
22	199	292	e339	e275	e240	978	1340	1630	1770	1390	1510	1160
23	205	311	e330	e290	e233	1110	1360	1660	1810	1430	1480	1020
24	209	297	e333	e331	e230	1190	1430	1660	1880	1440	1470	974
25	229	286	e315	e339	e233	1120	1440	1620	1950	1420	1450	962
26	231	270	e302	e264	e261	1080	1380	1540	1970	1400	1430	1190
27	227	e239	e330	e246	e176	1140	1350	1460	1960	1390	1420	1410
28	228	e239	e329	e282	e182	1120	1350	1360	1900	1390	1400	1360
29	228	e238	e312	e226	---	1080	1390	1310	1790	1390	1410	1330
30	231	e173	e332	e260	---	1060	1420	1270	1770	1390	1410	1300
31	235	---	e314	e207	---	1090	---	1260	---	1370	1410	---
TOTAL	6082	7440	9642	10469	6387	19086	36440	45590	52020	42330	41580	41186
MEAN	196	248	311	338	228	616	1215	1471	1734	1365	1341	1373
MAX	235	317	474	576	261	1190	1440	1670	2080	1610	1510	1510
MIN	168	173	222	161	176	190	1030	1260	1270	1120	1110	962
AC-FT	12060	14760	19120	20770	12670	37860	72280	90430	103200	83960	82470	81690

CAL YR 1996	TOTAL 172828	MEAN 472	MAX 1190	MIN 130	AC-FT 342800
WTR YR 1997	TOTAL 318252	MEAN 872	MAX 2080	MIN 161	AC-FT 631300

e Estimated

BEAR RIVER BASIN

10079000 SODA POINT RESERVOIR AT ALEXANDER, ID

LOCATION.--Lat 42°38'41", long 111°42'44", in NW¹/₄SE¹/₄NW¹/₄ sec. 17, T. 9 S., R. 41 E., Caribou County, Hydrologic Unit 16010202, 0.5 mi Southeast of Alexander, 5 mi downstream from Soda Creek.

DRAINAGE AREA.--4,099 mi².

GAGE.--Elevation of gage is 5,600 ft, Utah Power and Light Co. datum.

PERIOD OF RECORD.--October 1924 to current year. Prior to 1986, published in reports of the Bear River Commission.

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 CURRENT YEAR.--Maximum contents, 14,130 acre-ft Dec.14, elevation, 5,719.50 ft; minimum, 9,280 acre-ft Aug.10, elevation, 5,714.01 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12850	13420	13210	13320	12940	12940	11100	10370	11850	11840	12990	12870
2	12880	13410	13160	13620	12970	13050	10770	10270	11560	12830	13030	12950
3	12880	13380	13090	14000	12970	13210	10680	10150	11090	12880	13050	12950
4	12880	13360	13010	14000	12980	13100	10680	10110	10850	12930	13140	13150
5	12900	13330	12970	13760	12980	12800	10730	10070	10550	12920	13190	13260
6	12900	13310	12910	13410	12940	12450	10730	10070	10510	12810	12760	13280
7	12910	13250	12960	13040	12910	12130	10680	10100	10720	12810	12080	13350
8	12910	13250	13050	12710	12820	11910	11490	10140	11070	12810	11030	13380
9	12890	13230	13170	12490	12760	11670	12250	10170	11340	12980	9960	13410
10	12890	13220	13400	12490	12700	11470	13050	10200	11700	13170	9280	13510
11	12890	13170	13690	12390	12650	11340	11470	10390	12000	13240	9500	13690
12	12880	13160	13930	12170	12580	11340	11050	10450	12550	13470	9790	13760
13	12840	13160	14050	12050	12600	11290	10680	10530	13120	13770	10120	13770
14	12830	13100	14130	12510	12640	11160	10370	10890	13290	13770	10910	13800
15	12800	13090	14020	12830	12690	11030	10340	11020	13260	13690	11430	13880
16	12800	13060	13900	12770	12730	10910	10370	11180	12980	13640	11600	13850
17	12810	13030	13770	12720	12780	11060	10450	11380	12510	13530	11990	13830
18	12830	13050	13540	12720	12840	11360	10420	11600	12170	13370	12470	13700
19	12880	13240	13480	12730	12880	11670	10370	11690	11800	13200	12820	13620
20	12880	13350	13420	12760	12920	12360	10310	11770	11290	13100	12850	13570
21	12940	13510	13360	12810	12950	12680	10310	12030	11020	13010	12920	13510
22	12980	13610	13310	12870	12980	12800	10370	12310	10890	12890	13180	13940
23	13020	13740	13220	12900	12980	13480	10420	12550	10840	13020	13290	13220
24	13140	13790	13100	12900	12990	13600	10600	12850	10780	13100	13190	13100
25	13260	13770	13020	12900	12980	13350	10700	13100	10890	13100	13120	13040
26	13340	13790	12960	12920	12990	12980	10560	13250	11060	13100	12980	12950
27	13370	13710	12980	12940	13030	12760	10380	13240	11200	13030	12860	12790
28	13370	13710	12980	12940	12970	12530	10330	13060	11260	12920	12810	12700
29	13380	13570	12930	12920	---	12170	10310	12800	11140	12990	12740	12550
30	13410	13370	12990	12920	---	11790	10420	12500	11060	13030	12810	12450
31	13430	---	13150	12910	---	11420	---	12140	---	13030	12820	---
MAX	13430	13790	14130	14000	13030	13600	13050	13250	13290	13770	13290	13940
MIN	12800	13030	12910	12050	12580	10910	10310	10070	10510	11840	9280	12450
(#)	5718.81	5718.75	5718.53	5718.28	5718.34	5716.67	5715.48	5717.47	5716.25	5718.40	5718.19	5717.80
(*)	+580	-60	-220	-240	+60	-1550	-1000	+1720	-1080	+1970	-210	-370

CAL YR 1996 (*) +320

WTR YR 1997 (*) -400

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

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

BEAR RIVER BASIN

177

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. Elevation of gage is 5,650 ft above sea level from topographic map.

REMARKS.--Records fair. 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.--85 years, 798 ft³/s, 578,150 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, 14 ft³/s Oct. 22, 1990.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	343	398	449	352	302	1480	1700	1620	1040	1460	1640
2	253	339	398	610	351	312	1340	1700	1660	1020	1450	1560
3	253	340	380	664	351	397	1280	1630	1740	1240	1460	1590
4	260	337	374	665	350	533	1280	1560	1740	1240	1370	1650
5	266	331	374	658	349	612	1290	1510	1740	1230	1650	1620
6	260	332	357	658	349	611	1290	1500	1740	1190	1800	1650
7	266	333	345	659	342	603	1070	1510	1790	1150	1790	1610
8	271	329	345	659	342	602	831	1490	1860	1050	1820	1630
9	276	331	345	577	341	601	996	1530	1880	1090	1800	1620
10	271	332	363	535	340	601	1470	1480	1880	1210	1350	1610
11	276	329	380	535	340	607	1550	1540	1890	1340	1200	1550
12	282	329	374	399	323	621	1550	1610	1810	1380	1170	1690
13	287	338	374	178	306	621	1540	1620	1720	1470	1150	1710
14	287	347	374	119	289	620	1420	1460	1680	1530	838	1710
15	292	344	368	272	289	619	1350	1600	1670	1500	988	1720
16	298	345	368	371	288	618	1350	1590	1710	1490	1220	1760
17	294	344	368	348	288	617	1440	1510	1750	1480	1240	1740
18	287	344	363	332	287	616	1490	1630	1750	1470	1270	1710
19	283	344	363	332	287	615	1490	1640	1830	1470	1420	1710
20	282	345	363	333	286	678	1500	1640	1870	1470	1520	1720
21	246	319	363	333	285	935	1500	1640	1880	1470	1480	1650
22	273	364	357	350	285	992	1500	1640	1890	1420	1500	1480
23	229	388	357	356	284	1070	1500	1640	1930	1360	1690	1730
24	246	402	351	357	284	1350	1530	1650	1960	1420	1740	1260
25	270	404	351	356	283	1480	1640	1650	1960	1450	1690	1190
26	298	401	345	356	283	1470	1670	1640	1960	1460	1730	1500
27	312	400	345	355	303	1460	1660	1640	1970	1470	1710	1750
28	309	402	340	354	313	1480	1550	1640	1970	1450	1670	1690
29	309	402	340	354	---	1490	1510	1640	1960	1450	1660	1650
30	309	398	340	353	---	1480	1650	1620	1680	1450	1600	1560
31	321	---	340	352	---	1490	---	1620	---	1450	1630	---
TOTAL	8620	10636	11203	13229	8770	26103	42717	49470	54490	41910	46066	48660
MEAN	278	355	361	427	313	842	1424	1596	1816	1352	1486	1622
MAX	321	404	398	665	352	1490	1670	1700	1970	1530	1820	1760
MIN	229	319	340	119	283	302	831	1460	1620	1020	838	1190
AC-FT	17100	21100	22220	26240	17400	51780	84730	98120	108100	83130	91370	96520
CAL YR 1996	TOTAL 202703		MEAN 554		MAX 1350		MIN 140		AC-FT 402100			
WTR YR 1997	TOTAL 361874		MEAN 991		MAX 1970		MIN 119		AC-FT 717800			

BEAR RIVER BASIN

10080000 BEAR RIVER BELOW GRACE DAM, NEAR GRACE, ID

LOCATION.--Lat 42°35'11", long 111°43'51", in NE¹/₄SE¹/₄NW¹/₄ sec. 1, T. 10 S., R. 40 E., Caribou County, Hydrologic Unit 16010202, on left bank 1,000 ft downstream from dam, and 1 mi north of Grace.

DRAINAGE AREA.--4110 mi².

PERIOD OF RECORD.--April 1922 to November 1923 (fragmentary); March 1924 to current year. 1945 to 1950 published in reports on Bear River Hydrometric Data, water year 1946 published in WSP 1060. Prior to 1986, not published, records available from Utah Power & Light Co.

GAGE.--Water-stage recorder. Elevation of gage is 5,550 ft above sea level, from topographic map.

REMARKS.--Records fair.

COOPERATION.--Records collected by Utah Power & Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,390 ft³/s June 10, 1986, gage height, 6.77 ft; minimum, 0.74 ft³/s Feb. 2, 1986.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	3.9	3.3	2.6	3.3	1.9	468	637	488	19	194	294
2	7.0	3.3	2.4	2.6	3.3	1.9	320	638	510	20	180	266
3	7.5	3.9	2.8	2.1	3.3	1.9	321	579	533	39	190	253
4	9.5	3.5	2.6	2.0	3.3	1.9	335	508	495	40	166	303
5	7.6	3.5	3.1	10	3.3	1.6	354	515	530	41	317	307
6	7.3	3.5	2.8	10	3.3	1.6	326	497	590	28	493	307
7	7.8	4.0	3.1	10	3.3	1.6	70	498	527	28	549	326
8	7.5	4.3	2.6	10	4.8	1.6	5.7	498	616	23	549	383
9	8.0	4.0	2.9	9.0	4.8	1.6	214	493	606	30	556	298
10	9.7	4.1	3.1	9.9	4.8	2.2	433	524	590	66	107	284
11	6.7	4.1	2.7	9.9	4.8	6.6	533	524	667	67	50	379
12	5.2	4.8	2.3	18	3.7	e16	527	564	624	74	44	357
13	4.9	5.5	2.3	18	3.7	3.2	515	519	614	109	25	413
14	4.7	3.7	2.3	18	3.3	3.2	363	608	597	151	21	384
15	4.8	4.2	2.3	18	3.3	3.2	383	602	603	129	32	422
16	4.5	4.5	2.3	14	3.3	3.2	388	785	728	160	21	462
17	4.6	5.2	2.0	14	3.3	3.2	437	905	726	147	25	481
18	4.3	4.9	2.8	11	3.3	3.2	500	645	536	115	56	471
19	3.5	4.9	2.8	11	3.3	2.1	482	564	729	108	110	484
20	3.5	4.2	2.8	8.9	3.3	1.5	483	590	735	108	225	497
21	3.2	4.3	2.7	8.9	3.3	21	484	567	726	107	225	308
22	4.4	4.3	2.7	8.4	3.3	58	484	566	724	74	193	73
23	4.7	4.3	2.7	8.4	3.3	126	496	544	688	53	321	491
24	4.1	4.6	2.7	8.4	3.3	427	540	591	673	110	374	57
25	4.4	4.3	2.9	8.4	1.9	531	581	547	637	146	335	13
26	4.1	3.6	2.9	8.3	1.9	531	589	546	577	190	383	195
27	4.1	4.5	2.9	8.3	1.9	454	590	571	510	190	374	486
28	3.7	3.0	2.8	8.3	1.9	477	523	543	521	187	303	476
29	3.0	3.0	2.8	8.2	---	477	505	541	519	187	303	422
30	3.0	13	2.8	4.5	---	490	564	502	239	194	271	377
31	3.4	---	2.8	3.3	---	502	---	507	---	213	271	---
TOTAL	169.5	132.9	84.0	292.4	93.6	4157.2	12813.7	17718	17858	3153	7263	10269
MEAN	5.47	4.43	2.71	9.43	3.34	134	427	572	595	102	234	342
MAX	9.7	13	3.3	18	4.8	531	590	905	735	213	556	497
MIN	3.0	3.0	2.0	2.0	1.9	1.5	5.7	493	239	19	21	13
AC-FT	336	264	167	580	186	8250	25420	35140	35420	6250	14410	20370

CAL YR 1996 TOTAL 5663.0 MEAN 15.5 MAX 334 MIN 1.4 AC-FT 11230
WTR YR 1997 TOTAL 74004.3 MEAN 203 MAX 905 MIN 1.5 AC-FT 146800
e Estimated

BEAR RIVER BASIN

10086000 ONEIDA NARROWS RESERVOIR AT ONEIDA, ID

LOCATION.--Lat 42°16'34", long 111°44'56", in SW¹/₄NW¹/₄SE¹/₄ sec. 23, T. 13 S, R. 40 E., Franklin County, Hydrologic Unit 16010202, 6 mi south of Cleveland.

DRAINAGE AREA (REVISED)--4,455 mi².

REVISED RECORDS.--WRD UT-74-1, WDR UT-89-1: Drainage area; WDR UT-88-1: 1987.

PERIOD OF RECORD.--October 1914 to current year. Prior to 1986, published in reports of Bear River Commission.

GAGE.--Elevation of gage is 4,800 ft, Utah Power and Light Co. datum.

COOPERATION.--Records provided by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9488	10600	10240	9980	10080	10000	10160	9569	9458	10230	10780	10450
2	9377	10430	10330	10370	10130	10280	10010	9767	9475	10120	10620	10370
3	8170	10370	10010	10300	10060	10260	9702	9863	9556	10120	10620	10540
4	8415	9698	9997	10150	9931	10350	9313	9849	9603	10470	10250	10620
5	8402	10050	10430	10260	10350	10310	9263	9801	9586	10480	10450	10450
6	8294	10050	10600	10010	9949	10080	9394	9424	9603	10400	10160	10180
7	8078	10520	10670	10380	9949	10080	9475	9458	9651	10230	10420	10750
8	8049	10540	10640	10180	10230	10220	9377	9556	9668	10220	10700	10350
9	8447	10380	10700	10380	10130	10220	9327	9651	9815	10480	10580	10330
10	8742	10370	10150	10060	10030	10200	9343	9668	9832	10620	10640	10260
11	9073	10650	10150	10040	10050	9949	9394	9377	9883	10470	10550	10300
12	9394	10420	10350	10150	9980	10100	9539	9441	9914	10450	10350	10330
13	9719	10420	10230	9980	10350	10150	9505	9441	9685	10670	10380	10470
14	10000	10050	10310	10010	10060	10260	9488	9719	9441	10570	10690	10370
15	10280	10540	9931	10130	10260	10120	9458	9458	9200	10540	10420	10620
16	10540	10570	10300	10180	10300	10640	9360	9407	9424	10370	10600	10670
17	10650	10640	10430	10010	10260	9866	10100	9343	9732	10670	10520	10370
18	10580	10520	10130	10330	10000	10120	10690	9296	9668	10330	10250	10480
19	10220	10580	10280	9966	10300	10250	10230	9407	9586	10370	10130	10380
20	10420	10650	10010	10370	10400	10370	9849	9296	9668	10520	10690	10150
21	10620	10550	10220	9914	10350	9719	9505	9246	9719	10350	10690	9980
22	10420	10620	10100	10350	9784	9801	9360	9343	9702	10480	10650	9488
23	10430	10600	10220	9980	10180	10130	9246	9327	9702	10400	10520	10160
24	10700	10600	10250	10120	10160	10260	9233	9424	9801	10500	10470	10550
25	10500	10500	10380	10160	10130	10400	9866	9360	10160	10400	10520	10550
26	10580	10380	10100	10100	10280	10430	9458	9280	10250	10400	10620	10370
27	10580	10450	10010	10100	10310	10520	9263	9313	10220	10570	10720	10570
28	10310	10200	10060	10120	10230	10470	9441	9246	10120	10580	10620	10260
29	10260	10450	10180	10330	---	10380	9407	9360	10860	10400	10330	10600
30	10280	10600	9849	9980	---	10280	9313	9407	10370	10380	10400	10570
31	10600	---	9832	9931	---	10220	---	9441	---	10750	10380	---
MAX	10700	10650	10700	10380	10400	10640	10690	9863	10860	10750	10780	10750
MIN	8049	9698	9832	9914	9784	9719	9233	9246	9200	10120	10130	9488
(#)	4882.12	4882.12	4879.91	4880.20	4881.06	4881.02	4878.38	4876.76	4881.45	4882.55	4881.50	4882.02
(*)	+540	0	-768	+99	+299	-10	-907	+128	+929	+380	-370	+190
CAL YR 1996(*) +31											
WTR YR 1997(*) +510											

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

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

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. 13 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. Elevation of gage is 4,800 ft above sea level, from topographic map.

REMARKS.--Records fair. 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.--76 years, 876 ft³/s, 634,660 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	538	721	364	421	484	494	1990	2040	1990	1370	1700	1400
2	831	331	476	1520	498	403	1980	2070	2000	669	1180	1760
3	539	510	751	1460	480	448	1970	2070	2000	930	1320	1450
4	272	755	291	1100	447	633	1870	2070	2000	990	1740	1140
5	420	264	323	1010	368	540	1670	2170	2000	1140	1310	1790
6	457	293	572	912	794	743	1600	2250	2000	1070	1910	1660
7	724	609	444	826	244	806	1710	2020	1990	1260	1610	1340
8	174	379	415	1020	419	849	1490	2040	1990	1060	1750	1640
9	238	450	468	716	604	754	1170	2040	2030	661	1610	1620
10	251	433	613	756	614	849	1510	2230	2100	1000	1700	1440
11	249	291	782	943	427	669	1770	2250	2100	1270	1590	1710
12	244	540	542	256	444	931	1800	2150	2200	1110	1490	1340
13	249	924	622	501	412	975	1910	2140	2310	1230	1150	1630
14	258	272	588	573	470	920	1860	2270	2270	1730	1370	1710
15	255	234	458	232	449	776	1830	2310	2110	1530	902	1540
16	300	534	458	567	492	617	1800	2300	1930	1570	940	1710
17	396	497	295	503	337	982	956	2300	2000	1470	1350	1850
18	458	471	360	468	587	1080	2240	2130	2220	1350	1100	1460
19	592	564	471	498	374	1040	2410	2250	2150	1140	1260	2050
20	317	487	488	511	462	1300	2410	2190	2110	1270	1500	1960
21	410	513	598	493	551	1740	2400	2270	2110	1560	1480	2030
22	360	358	446	345	386	1380	2140	2190	2110	1440	1460	1600
23	350	418	480	568	234	1530	2160	2150	2060	1160	1320	870
24	464	651	622	457	414	1580	2060	2160	1850	1360	1510	1710
25	465	421	515	487	434	1870	1800	2340	1810	1530	1680	1250
26	423	454	398	504	489	1940	2390	2200	1870	1190	1650	1430
27	432	755	670	530	538	1970	2160	2070	1870	1280	1540	1660
28	518	344	510	576	368	1980	2140	2060	1850	1570	1600	1810
29	501	572	533	368	---	1980	2190	1990	1200	1750	1670	1670
30	475	340	665	551	---	1980	2110	2020	2130	1080	1290	1770
31	292	---	617	471	---	1980	---	2000	---	1500	1370	---
TOTAL	12452	14385	15835	20143	12820	35739	57496	66740	60360	39240	45052	48000
MEAN	402	480	511	650	458	1153	1917	2153	2012	1266	1453	1600
MAX	831	924	782	1520	794	1980	2410	2340	2310	1750	1910	2050
MIN	174	234	291	232	234	403	956	1990	1200	661	902	870
AC-FT	24700	28530	31410	39950	25430	70890	114000	132400	119700	77830	89360	95210
CAL YR 1996	TOTAL 235151		MEAN	642	MAX 2070	MIN 167	AC-FT 466400					
WTR YR 1997	TOTAL 428262		MEAN	1173	MAX 2410	MIN 174	AC-FT 849500					

BEAR RIVER BASIN

181

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE

LOCATION.--Lat 42°00'47", long 111°55'14", in NE1/4 NW1/4 NE1/4 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. Elevation of gage is 4,420 ft above sea level, from topographic map. Prior to Sept. 10, 1982 at datum 2.00 ft higher. Sept. 10, 1982 to Sept. 30, 1985 at datum 10.0 ft lower.

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,870 ft³/s June 14, 1984, gage height, 9.20 ft; minimum daily discharge, 48 ft³/s May 29, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,050 ft³/s May 25, gage height, 16.22 ft; minimum daily discharge, 204 ft³/s Oct. 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	773	491	e480	1010	e500	724	2240	2490	2640	1640	1540	1420
2	447	640	e500	1410	e550	560	2240	2460	2660	1090	1540	1550
3	1150	491	e550	e2500	e575	635	2210	2450	2560	578	1390	1430
4	255	782	e650	e1800	e550	721	2190	2440	2540	1010	1660	1460
5	371	571	386	e1000	e460	861	1960	2440	2570	1040	1380	1640
6	463	334	534	e850	e420	1000	1780	2640	2590	1070	1780	1690
7	536	454	589	e750	e650	895	1790	2450	2570	1110	1710	1360
8	581	567	623	e700	e600	893	1800	2420	2570	908	1620	1800
9	204	566	577	e850	e650	992	1500	2410	2580	682	1880	1610
10	274	529	995	e750	e700	1010	1470	2410	2660	657	1860	1660
11	270	433	1010	e850	e725	1300	1870	2580	2680	875	1810	1590
12	265	598	e1200	e1000	763	1090	1890	2500	2700	1380	1570	1750
13	259	625	954	e460	543	1190	1990	2470	2880	1390	1400	1460
14	259	712	678	e550	826	1060	1970	2540	2870	1540	1180	1760
15	266	293	e600	e600	574	1140	1950	2620	2790	1530	1270	1640
16	272	450	e500	e380	681	876	1960	2640	2510	1580	1050	1680
17	341	578	e460	e500	722	1690	1720	2690	2460	1320	1350	1950
18	463	722	e360	e550	830	1460	1660	2660	2620	1680	1310	1760
19	680	574	e400	e500	649	1440	2490	2560	2660	1300	1670	1890
20	365	624	e550	e550	657	1550	2540	2680	2540	1260	1070	2040
21	335	651	687	e570	737	2110	2560	2730	2460	1460	1470	2100
22	491	536	794	e550	1010	2010	2470	2760	2400	1250	1430	2180
23	525	e460	631	e460	459	1840	2390	2740	2340	1390	1460	1200
24	337	e500	698	e600	603	2000	2480	2760	2130	1200	1540	1580
25	658	e700	641	e550	685	2050	2070	2970	1840	1380	1550	1450
26	483	e600	885	e600	586	2230	2550	2920	1890	1410	1500	1500
27	572	e550	1000	e600	678	2260	2510	2770	1870	1330	1520	1540
28	552	e800	928	e700	730	2270	2370	2690	1820	1430	1570	2020
29	550	e480	826	e750	---	2240	2540	2580	1370	1550	1680	1690
30	547	e550	1150	e550	---	2220	2580	2600	1890	1570	1390	1840
31	387	---	1040	e600	---	2230	---	2610	---	1190	1470	---

TOTAL	13931	16861	21876	24090	18113	44547	63740	80680	72660	38800	46620	50240
MEAN	449	562	706	777	647	1437	2125	2603	2422	1252	1504	1675
MAX	1150	800	1200	2500	1010	2270	2580	2970	2880	1680	1880	2180
MIN	204	293	360	380	420	560	1470	2410	1370	578	1050	1200
AC-FT	27630	33440	43390	47780	35930	88360	126400	160000	144100	76960	92470	99650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1997, BY WATER YEAR (WY)

MEAN	964	995	1029	1025	1025	1221	1479	1612	1455	1076	972	990
MAX	2850	2983	2552	1904	2556	3264	3594	3968	4263	3442	2416	2545
(WY)	1984	1984	1985	1984	1986	1986	1986	1986	1986	1983	1984	1986
MIN	250	298	310	412	351	351	403	357	333	393	461	192
(WY)	1993	1993	1982	1993	1993	1991	1992	1988	1989	1995	1993	1992

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1971 - 1997

ANNUAL TOTAL	275646	492158	1154
ANNUAL MEAN	753	1348	2728
HIGHEST ANNUAL MEAN			505
LOWEST ANNUAL MEAN			1984
HIGHEST DAILY MEAN	2720	May 28	2970
LOWEST DAILY MEAN	193	Jun 20	204
ANNUAL SEVEN-DAY MINIMUM	257	Oct 9	257
ANNUAL RUNOFF (AC-FT)	546700	976200	835800
10 PERCENT EXCEEDS	1510	2560	2320
50 PERCENT EXCEEDS	576	1300	896
90 PERCENT EXCEEDS	352	482	326

e Estimated

BEAR RIVER BASIN

10105900 LITTLE BEAR RIVER AT PARADISE, UT

LOCATION.--Lat 41°34'32", long 111°51'16" in NW¹/₄NE¹/₄SE¹/₄ sec 29, T. 10 N., R. 1 E., Cache County, Hydrologic Unit 16010203, on right bank 1 mi west of Paradise, Utah.

DRAINAGE AREA.--182 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 4,740 ft above sea level, from topographic map. Prior to Aug. 11, 1994, 50 ft upstream at different datum.

REMARKS.--Records fair except for estimated days which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,030 ft³/s May 7, 1993, gage height, 10.13 ft, site and datum then in use; maximum gage height 10.16 ft, Apr. 29, 1997; minimum daily discharge, 4.4 ft³/s Feb. 10, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 925 ft³/s Apr. 29, gage height, 10.16 ft; minimum discharge, 31 ft³/s several days in Aug. and Sept.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	47	48	236	85	89	203	644	495	73	49	31
2	36	46	46	e464	86	89	163	560	456	72	47	31
3	36	46	43	505	80	89	187	508	398	69	48	41
4	35	46	43	194	77	89	198	527	387	66	56	45
5	35	49	48	114	76	90	163	611	367	65	71	51
6	36	46	48	e105	74	90	152	654	342	67	65	60
7	37	46	46	e95	85	90	214	671	319	65	61	70
8	37	46	47	96	99	94	248	658	337	63	53	63
9	38	46	50	91	99	93	283	650	348	62	45	63
10	37	45	194	88	98	100	246	659	362	61	54	59
11	37	45	238	88	94	130	215	678	327	65	60	58
12	37	45	201	e63	89	186	203	687	308	102	67	62
13	38	45	179	e64	87	155	195	685	328	80	64	68
14	36	46	96	e66	86	126	195	677	320	71	61	71
15	38	46	76	e69	86	133	221	699	290	72	55	70
16	40	46	71	e60	87	183	276	695	260	63	48	74
17	40	46	56	e60	94	386	326	684	239	60	48	80
18	41	69	60	e62	105	291	382	668	224	61	48	80
19	52	63	59	e62	97	292	405	628	209	64	45	93
20	47	54	58	e60	95	327	441	585	195	59	43	94
21	46	51	59	e70	91	346	483	575	183	55	41	99
22	47	69	58	e69	90	312	425	554	165	56	34	98
23	47	65	56	e69	89	319	415	519	142	57	32	96
24	48	56	54	68	88	293	389	577	123	55	31	93
25	60	53	55	73	89	219	413	582	115	52	31	95
26	52	50	77	153	89	219	332	513	96	50	31	99
27	49	48	161	176	91	242	425	437	88	49	31	99
28	49	49	102	102	88	191	665	405	78	48	33	98
29	49	49	92	87	---	145	779	473	78	54	32	97
30	49	45	136	81	---	150	612	468	72	52	31	97
31	49	---	197	79	---	210	---	461	---	51	31	---
TOTAL	1314	1503	2754	3669	2494	5768	9854	18392	7651	1939	1446	2235
MEAN	42.4	50.1	88.8	118	89.1	186	328	593	255	62.5	46.6	74.5
MAX	60	69	238	505	105	386	779	699	495	102	71	99
MIN	35	45	43	60	74	89	152	405	72	48	31	31
AC-FT	2610	2980	5460	7280	4950	11440	19550	36480	15180	3850	2870	4430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1997, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997
MEAN	31.4	33.8	41.5	49.4	51.4
MAX	43.8	50.1	88.8	118	89.1
(WY)	1996	1997	1997	1997	1997
MIN	16.5	20.6	19.0	17.5	14.8
(WY)	1993	1993	1993	1993	1993

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1993 - 1997

ANNUAL TOTAL	38991	59019	104
ANNUAL MEAN	107	162	162
HIGHEST ANNUAL MEAN			1997
LOWEST ANNUAL MEAN			1994
HIGHEST DAILY MEAN	578	779	779
LOWEST DAILY MEAN	24	31	4.4
ANNUAL SEVEN-DAY MINIMUM	24	31	6.9
ANNUAL RUNOFF (AC-FT)	77340	117100	75590
10 PERCENT EXCEEDS	308	458	332
50 PERCENT EXCEEDS	47	45	18

e Estimated

BEAR RIVER BASIN

183

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 above sea level (Bureau of Public Roads bench mark).

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

AVERAGE DISCHARGE.--34 years, 22.5 ft³/s 16,310 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	.13	.08	.05	e.07	e.10	.20	.20	40	50	45	47
2	28	.13	.08	.05	e.08	e.10	.20	.20	40	50	40	48
3	28	.13	.13	.04	e.08	e.10	.20	.20	e40	49	40	38
4	27	.13	.13	.04	e.08	e.10	.40	.20	e40	48	40	36
5	27	.13	.13	.04	e.08	e.10	.40	.20	e39	48	39	39
6	27	.13	.13	.04	e.06	e.10	.34	.20	e39	48	39	38
7	27	.13	.13	.04	e.06	.10	.17	.20	e38	49	39	31
8	27	.13	.13	.04	e.06	.11	.20	.20	e38	53	39	39
9	27	.13	.13	.04	e.06	.11	.20	2.3	e38	56	39	39
10	27	.13	.13	.02	e.06	.12	.20	20	e38	57	34	41
11	27	.13	.13	e.02	e.07	.13	.23	23	e38	58	31	40
12	27	.13	.13	e.02	e.08	.13	.20	28	e38	41	31	38
13	27	.13	.13	e.02	e.08	.13	.20	31	e38	30	31	36
14	27	.13	.11	e.02	e.09	.13	.22	32	e38	40	31	36
15	27	.15	.08	e.02	e.10	.13	.23	35	e38	40	34	34
16	27	.20	.11	e.02	e.10	.13	.29	37	e23	40	35	30
17	27	.20	.13	e.02	e.12	.13	.29	39	e23	40	34	29
18	17	.20	.13	e.03	e.12	.13	.29	41	e23	40	33	27
19	4.6	.19	.13	e.03	e.12	.13	.23	40	e23	38	34	26
20	4.6	.20	.13	e.03	e.12	.13	.20	42	e23	36	34	27
21	4.6	.20	.13	e.03	e.12	.13	.20	32	e38	35	33	27
22	4.6	.20	.12	e.03	e.10	.19	.20	29	e45	41	39	27
23	4.6	.20	.08	e.02	e.10	.20	.20	35	e45	41	40	27
24	4.6	.19	.11	e.02	e.10	.20	.29	32	e45	39	41	27
25	2.1	.17	.10	e.02	e.10	.20	.28	27	e45	40	42	27
26	.13	.13	.08	e.02	e.10	.20	.25	25	e48	40	46	27
27	.16	.13	.08	e.03	e.10	.20	.24	30	50	41	50	27
28	.13	.08	.08	e.06	e.10	.20	.28	34	50	41	50	27
29	.13	.08	.08	e.07	---	.20	.22	34	49	41	50	27
30	.13	.08	.08	e.07	---	.20	.20	34	49	42	50	27
31	.13	---	.05	e.07	---	.20	---	39	---	46	48	---
TOTAL	509.51	4.42	3.40	1.07	2.51	4.46	7.25	722.90	1159	1358	1211	989
MEAN	16.4	.15	.11	.035	.090	.14	.24	23.3	38.6	43.8	39.1	33.0
MAX	28	.20	.13	.07	.12	.20	.40	42	50	58	50	48
MIN	.13	.08	.05	.02	.06	.10	.17	.20	23	30	31	26
AC-FT	1010	8.8	6.7	2.1	5.0	8.8	14	1430	2300	2690	2400	1960

CAL YR 1996 TOTAL 7102.03 MEAN 19.4 MAX 57 MIN .00 AC-FT 14090
WTR YR 1997 TOTAL 5972.52 MEAN 16.4 MAX 58 MIN .02 AC-FT 11850

e Estimated

BEAR RIVER BASIN

10109000 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT

LOCATION.--Lat 41°44'36", long 111°46'55", in NW¹/₄NW¹/₄NE¹/₄ sec. 36, T. 12 N., R. 1 E., Cache County, Hydrologic Unit 16010203, on left 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 tailrace near Logan (station 10108000) are added. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area. WRD UT-96-1:1995, Combined discharge of Logan River Above State Dam and Logan, Hyde Park and Smithfield Canal at Head.

GAGE.--Water-stage recorder. Elevation of gage is 4,680 ft above sea level, 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.--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 tailrace 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: 84 years (water years 1914-97), 150 ft³/s 108,980 acre-ft/yr.
Combined river and canal: 101 years, 270 ft³/s 195,600 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, 5.2 ft³/s Feb. 26, 1986, result of hydro-electric plant testing.

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, 1,740 ft³/s May 22, gage height, 5.43 ft; minimum daily discharge, 110 ft³/s Dec. 17.
Combined river and canal: Maximum daily discharge, 1590 ft³/s May 22; minimum daily discharge, 110 ft³/s Dec. 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	131	127	146	148	130	227	525	1400	664	288	194
2	128	130	123	172	145	131	215	468	1380	634	283	192
3	126	129	119	231	144	131	215	444	1330	607	278	202
4	126	131	120	213	142	129	231	468	1380	584	279	200
5	124	132	129	193	142	127	223	535	1390	564	289	194
6	124	127	124	179	140	127	211	629	1350	549	275	196
7	122	125	121	171	134	128	208	715	1350	527	266	196
8	122	125	124	171	134	128	208	760	1330	506	262	188
9	122	124	124	168	136	126	214	806	1290	486	258	186
10	121	123	137	166	134	126	205	862	1280	471	270	184
11	120	122	148	167	135	132	195	940	1280	475	273	190
12	122	122	149	147	137	138	189	1020	1260	540	265	190
13	120	123	151	143	134	144	184	1060	1210	514	258	187
14	120	125	141	148	132	144	184	1120	1170	457	254	186
15	119	124	131	148	135	142	189	1260	1120	436	247	192
16	123	123	136	144	134	144	216	1300	1070	425	242	201
17	119	124	110	138	135	160	269	1370	1060	413	239	191
18	127	151	115	140	135	163	342	1420	1060	404	237	193
19	151	157	134	140	134	175	401	1460	1060	393	234	195
20	138	149	131	140	135	198	475	1400	1040	386	228	196
21	134	138	135	143	134	231	545	1520	1010	377	219	210
22	133	149	135	141	132	237	521	1560	978	360	223	194
23	133	147	134	142	134	247	508	1510	945	356	215	188
24	135	137	128	135	132	261	466	1540	897	352	212	185
25	151	134	130	141	131	241	411	1420	840	335	210	182
26	142	129	141	161	134	246	409	1260	796	327	203	183
27	137	125	149	163	136	264	449	1130	764	319	196	181
28	136	124	142	152	133	243	556	1090	739	313	194	178
29	137	126	139	149	---	226	622	1160	712	316	193	176
30	136	122	147	146	---	219	537	1210	686	305	190	174
31	134	---	144	147	---	235	---	1270	---	293	191	---
TOTAL	4011	3928	4118	4885	3811	5473	9825	33232	33177	13688	7471	5704
MEAN	129	131	133	158	136	177	328	1072	1106	442	241	190
MAX	151	157	151	231	148	264	622	1560	1400	664	289	210
MIN	119	122	110	135	131	126	184	444	686	293	190	174
AC-FT	7960	7790	8170	9690	7560	10860	19490	65920	65810	27150	14820	11310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1997, BY WATER YEAR (WY)

	95.5	89.9	80.7	76.2	76.0	96.3	197	484	560	241	127	106
MEAN	95.5	89.9	80.7	76.2	76.0	96.3	197	484	560	241	127	106
MAX	247	213	186	161	205	369	615	1072	1413	691	337	267
(WY)	1984	1984	1984	1985	1986	1986	1986	1997	1986	1984	1983	1986
MIN	13.3	12.7	11.9	11.8	12.0	12.3	24.7	51.8	33.8	18.0	15.8	14.1
(WY)	1962	1955	1954	1954	1954	1955	1961	1961	1961	1954	1956	1961

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1954 - 1997

ANNUAL TOTAL	101345	129323	
ANNUAL MEAN	277	354	186
HIGHEST ANNUAL MEAN			440
LOWEST ANNUAL MEAN			21.9
HIGHEST DAILY MEAN	1330	May 18	1870
LOWEST DAILY MEAN	85	Feb 2	110
ANNUAL SEVEN-DAY MINIMUM	96	Jan 31	120
ANNUAL RUNOFF (AC-FT)	201000		256500
10 PERCENT EXCEEDS	748		1060
50 PERCENT EXCEEDS	142		189
90 PERCENT EXCEEDS	117		126

BEAR RIVER BASIN

185

LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT--Continued

10109001 COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF LOGAN RIVER ABOVE STATE DAM
AND LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	131	127	146	e148	e130	227	525	1440	714	333	241
2	156	130	123	172	e145	e131	215	468	1420	684	323	240
3	154	129	119	231	e144	e131	215	444	e1370	656	318	240
4	153	131	120	213	e142	e129	231	468	e1420	632	319	236
5	151	132	129	193	e142	e127	223	535	e1430	612	328	233
6	151	127	124	179	e140	e127	211	629	e1390	597	314	234
7	149	125	121	171	e134	128	208	715	e1390	576	305	227
8	149	125	124	171	e134	128	208	760	e1370	559	301	227
9	149	124	124	168	e136	126	214	808	e1330	542	297	225
10	148	123	137	166	e134	126	205	882	e1320	528	304	225
11	147	122	148	e167	e135	132	195	963	e1320	533	304	230
12	149	122	149	e147	e137	138	189	1050	e1300	581	296	228
13	147	123	151	e143	e134	144	184	1090	e1250	544	289	223
14	147	125	141	e148	e132	144	184	1150	e1210	497	285	222
15	146	124	131	e148	e135	142	189	1300	e1160	476	281	226
16	150	123	136	e144	e134	144	216	1340	e1090	465	277	231
17	146	124	110	e138	e135	160	269	1410	e1080	453	273	220
18	144	151	115	e140	e135	163	342	1460	e1080	444	270	220
19	156	157	134	e140	e134	175	401	1500	e1080	431	268	221
20	143	149	131	e140	e135	198	475	1440	e1060	422	262	223
21	139	138	135	e143	e134	231	545	1550	e1050	412	252	237
22	138	149	135	e141	e132	237	521	1590	e1020	401	262	221
23	138	147	134	e142	e134	247	508	1550	e990	397	255	215
24	140	137	128	e135	e132	261	466	1570	e942	391	253	212
25	153	134	130	e141	e131	241	411	1450	e885	375	252	209
26	142	129	141	e161	e134	246	409	1290	e844	367	249	210
27	137	125	149	e163	e136	264	449	1160	814	360	246	208
28	136	124	142	e152	e133	243	556	1120	789	354	244	205
29	137	126	139	e149	---	226	622	1190	761	357	243	203
30	136	122	147	e146	---	219	537	1240	735	347	240	201
31	134	---	144	e147	---	235	---	1310	---	339	239	---
TOTAL	4522	3928	4118	4885	3811	5473	9825	33957	34340	15046	8682	6693
MEAN	146	131	133	158	136	177	328	1095	1145	485	280	223
MAX	157	157	151	231	148	264	622	1590	1440	714	333	241
MIN	134	122	110	135	131	126	184	444	735	339	239	201
AC-FT	8970	7790	8170	9690	7560	10860	19490	67350	68110	29840	17220	13280

CAL YR 1996 TOTAL 108424 MEAN 296 MAX 1350 MIN 85 AC-FT 215100
WTR YR 1997 TOTAL 135280 MEAN 371 MAX 1590 MIN 110 AC-FT 268300

e Estimated

BEAR RIVER BASIN

10116500 CUTLER RESERVOIR NEAR COLLINSTON, UT

LOCATION.--Lat 41°50'13", long 112°02'51", in NW¹/₄NW¹/₄SW¹/₄ sec. 26, T. 13 N., R. 2 W., Box Elder County, Hydrologic Unit 16010204, 2 mi north of Beaver Dam, 6 mi north of Collinston.

DRAINAGE AREA (REVISED).--6,265 mi².

PERIOD OF RECORD.--October 1927 to current year.

GAGE.--Elevation of gage is 4,000 ft, Utah Power and Light Co. datum.

REMARKS.--New capacity table being used from Oct. 1, 1992.

COOPERATION.--Records provided by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13620	15380	14670	2862	8910	7619	12260	12590	11930	10350	12590	12260
2	15380	13960	15380	2744	7866	7140	11930	14670	15380	11930	13270	15020
3	12260	14670	14310	3252	5424	6909	11930	12260	12590	14310	14670	14310
4	12260	15020	15020	5622	6244	6909	11930	11930	11930	12930	16870	14310
5	12930	14310	15380	8910	6461	6909	11930	11930	11930	14670	13270	14310
6	13960	13960	15020	10650	6032	7377	11930	11930	11930	13960	13270	13620
7	14670	13960	15020	10050	8910	6244	11930	11930	11930	13960	14670	13620
8	13960	13270	14670	8377	6461	6461	11930	11930	11930	13270	14670	13960
9	13270	11930	14670	7140	6032	6682	11930	11930	12590	12590	13270	14670
10	12930	9467	11600	6244	6032	7377	11930	11930	12930	13960	13270	15020
11	13270	7619	9467	4858	8910	8377	12260	11930	13270	15380	12590	15020
12	14310	5825	7866	4164	6244	7866	11930	12260	12590	15380	12590	15020
13	15020	5825	6244	7866	6682	6682	11930	12260	12590	15020	14670	15020
14	13960	6032	4858	9754	6461	7619	11930	12260	12590	15380	12260	14310
15	13960	6461	2986	10350	8910	6909	11930	12260	12930	15380	13270	12930
16	13270	6682	2323	10050	6461	6909	11930	12930	12590	14670	13270	12930
17	13960	6682	3689	8910	6461	9185	11930	12590	15380	15380	12590	12260
18	13960	6909	3116	10050	8910	11600	11930	12260	11930	11930	11930	12260
19	13960	10650	3116	10350	7140	15380	11930	13960	11930	13960	11600	12590
20	13960	12260	3252	10350	6461	13960	11930	12590	11930	14310	13960	12930
21	13960	15380	2986	10350	5825	13960	15020	12260	11930	11930	14670	13620
22	13960	15020	2986	10350	5825	13960	15380	12260	12260	12590	13620	15020
23	13960	14310	3539	10350	6244	13960	14670	12590	11280	11930	14670	12590
24	15380	14670	3252	9467	7377	13270	14310	13270	11280	13270	13960	14670
25	15020	14670	2524	8641	7140	15380	13270	12930	11280	12930	12930	13620
26	15380	15020	2986	8910	7377	14310	11930	12930	11600	12590	14670	11930
27	13270	15020	2986	11280	7377	11930	11930	12590	10970	13270	13960	13620
28	15020	13270	4164	10970	7377	13270	11930	11930	10970	12590	13270	13270
29	15380	14670	3252	10050	---	12930	11930	11930	10970	14310	14670	15380
30	15380	13960	2862	8377	---	12590	12930	11930	9754	14670	13270	12930
31	14310	---	3116	9185	---	12260	---	11930	---	13960	12260	---
MAX	15380	15380	15380	11280	8910	15380	15380	14670	15380	15380	16870	15380
MIN	12260	5825	2323	2744	5424	6244	11930	11930	9754	10350	11600	11930
(#)	4407.35	4407.30	4405.05	4406.55	4406.20	4407.05	4407.15	4407.00	4406.65	4407.30	4407.05	4407.15
(*)	+1060	-350	-10844	+6069	-1808	+4883	+670	-1000	-2176	+4206	-1700	+670
CAL YR 1996(*) +2,568											
WTR YR 1997(*) -320											

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

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

BEAR RIVER BASIN

187

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.--Records fair. 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.--Records collected by Utah Power & Light Co.

AVERAGE DISCHARGE.--83 years (water years 1913-81, 1983-96), 52.5 ft³/s, 38,040 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	.00	.00	.00	.00	.00	.00	90	157	178	157	147
2	87	.00	.00	.00	.00	.00	.00	91	160	177	158	146
3	88	.00	.00	.00	.00	.00	.00	91	164	179	158	146
4	90	.00	.00	.00	.00	.00	.00	92	165	179	147	133
5	90	.00	.00	.00	.00	.00	.00	118	165	180	138	120
6	90	.00	.00	.00	.00	.00	.00	146	166	180	138	120
7	90	.00	.00	.00	.00	.00	.00	148	171	174	139	120
8	90	.00	.00	.00	.00	.00	.00	148	172	167	139	120
9	90	.00	.00	.00	.00	.00	.00	150	174	167	138	121
10	90	.00	.00	.00	.00	.00	.00	154	176	167	138	121
11	90	.00	.00	.00	.00	.00	.00	160	163	168	138	121
12	90	.00	.00	.00	.00	.00	.00	166	130	151	137	122
13	88	.00	.00	.00	.00	.00	.00	170	136	135	140	122
14	89	.00	.00	.00	.00	.00	.00	180	132	136	139	121
15	85	.00	.00	.00	.00	.00	.00	189	132	137	137	119
16	85	.00	.00	.00	.00	.00	.00	193	132	138	136	108
17	84	.00	.00	.00	.00	.00	.00	193	137	138	137	102
18	85	.00	.00	.00	.00	.00	.00	194	145	150	137	103
19	84	.00	.00	.00	.00	.00	.00	190	150	163	140	104
20	84	.00	.00	.00	.00	.00	.00	188	150	157	141	104
21	78	.00	.00	.00	.00	.00	.00	187	154	151	140	103
22	58	.00	.00	.00	.00	.00	.00	187	158	150	140	103
23	39	.00	.00	.00	.00	.00	.00	189	160	150	140	104
24	30	.00	.00	.00	.00	.00	.00	167	164	148	140	103
25	23	.00	.00	.00	.00	.00	.00	134	174	154	139	104
26	8.2	.00	.00	.00	.00	.00	.00	122	176	158	140	103
27	8.2	.00	.00	.00	.00	.00	.00	134	178	158	140	103
28	8.2	.00	.00	.00	.00	.00	66	132	178	159	144	103
29	8.1	.00	.00	.00	---	.00	98	132	178	157	152	98
30	8.1	.00	.00	.00	---	.00	92	133	177	154	149	93
31	8.3	---	.00	.00	---	.00	---	139	---	158	144	---
TOTAL	2035.1	0.00	0.00	0.00	0.00	0.00	256.00	4707	4774	4918	4400	3437
MEAN	65.6	.000	.000	.000	.000	.000	8.53	152	159	159	142	115
MAX	90	.00	.00	.00	.00	.00	98	194	178	180	158	147
MIN	8.1	.00	.00	.00	.00	.00	.00	90	130	135	136	93
AC-FT	4040	.00	.00	.00	.00	.00	508	9340	9470	9750	8730	6820

CAL YR 1996 TOTAL 25042.10 MEAN 68.4 MAX 178 MIN .00 AC-FT 49670
WTR YR 1997 TOTAL 24527.10 MEAN 67.2 MAX 194 MIN .00 AC-FT 48650

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.--Records fair. 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.--Records collected by Utah Power & Light Co.

AVERAGE DISCHARGE.--83 years (water years 1913-81, 1983-97), 253 ft³/s, 183,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 787 ft³/s June 23, 1986; no flow for periods in every year except 1914.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	394	202	38	.00	.00	.00	.00	321	674	803	707	637
2	397	134	38	.00	.00	.00	.00	333	697	800	677	639
3	397	147	37	.00	.00	.00	.00	369	722	798	651	637
4	396	147	49	.00	.00	.00	.00	427	741	796	657	636
5	398	140	41	.00	.00	.00	.00	462	741	759	641	634
6	398	147	37	.00	.00	.00	.00	581	763	737	607	634
7	397	154	41	.00	.00	.00	.00	633	791	735	607	639
8	399	154	36	.00	.00	.00	.00	651	794	744	607	639
9	399	154	36	.00	.00	.00	.00	698	788	740	608	607
10	398	153	35	.00	.00	.00	.00	719	726	743	608	590
11	398	152	34	.00	.00	.00	.00	734	682	743	602	590
12	395	151	33	.00	.00	.00	.00	740	616	671	575	588
13	396	150	33	.00	.00	.00	.00	749	548	636	552	589
14	394	150	32	.00	.00	.00	.00	775	474	589	558	585
15	394	150	26	.00	.00	.00	.00	804	434	518	566	575
16	391	150	4.4	.00	.00	.00	.00	820	432	570	565	541
17	391	150	4.9	.00	.00	.00	.00	814	430	613	559	541
18	389	150	4.0	.00	.00	.00	.00	811	496	593	557	543
19	390	151	2.7	.00	.00	.00	.00	806	551	596	557	524
20	390	152	2.3	.00	.00	.00	.00	813	574	618	560	496
21	388	153	2.0	.00	.00	.00	.00	819	606	646	575	492
22	388	154	1.8	.00	.00	.00	.00	810	642	673	619	471
23	386	154	1.5	.00	.00	.00	.00	783	707	705	644	447
24	314	153	1.1	.00	.00	.00	.00	665	726	703	642	449
25	255	153	.96	.00	.00	.00	.00	567	769	703	646	448
26	255	153	2.7	.00	.00	.00	.00	541	791	705	643	418
27	255	153	2.3	.00	.00	.00	.00	541	788	706	639	385
28	255	153	2.0	.00	.00	.00	.00	543	799	704	641	386
29	254	153	1.5	.00	---	.00	.00	541	800	704	640	389
30	254	95	1.5	.00	---	.00	.00	544	797	702	638	385
31	254	---	1.5	.00	---	.00	---	587	---	702	638	---
TOTAL	11159	4512	583.16	0.00	0.00	0.00	0.00	20001	20099	21455	18986	16134
MEAN	360	150	18.8	.000	.000	.000	.000	645	670	692	612	538
MAX	399	202	49	.00	.00	.00	.00	820	800	803	707	639
MIN	254	95	.96	.00	.00	.00	.00	321	430	518	552	385
AC-FT	22130	8950	1160	.00	.00	.00	.00	39670	39870	42560	37660	32000
CAL YR 1996	TOTAL	115632.16	MEAN	316	MAX	793	MIN	.00	AC-FT	229400		
WTR YR 1997	TOTAL	112929.16	MEAN	309	MAX	820	MIN	.00	AC-FT	224000		

BEAR RIVER BASIN

189

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 above sea level (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.--Records fair. Natural flow of stream affected by storage reservoir, power developments and diversions for irrigation.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of the U. S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,700 ft³/s, Feb. 20, 1986, gage height, 8.68 ft; minimum daily, 10 ft³/s, Aug. 4-12, 18-23, 1905; practically no flow at 2400 Aug. 5, 1920.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	218	408	650	2580	2130	1560	3750	4530	5100	1440	1430	379
2	326	625	881	2750	2590	1560	3740	4670	5070	1370	331	543
3	682	1040	1600	3200	2000	1510	3650	4930	5280	841	1410	1370
4	621	304	652	3800	1910	1470	3400	4600	5400	236	1460	1370
5	150	1580	1280	4020	1800	1480	3370	4220	5330	690	1480	1370
6	25	1060	1230	4010	1900	1520	3390	4020	5260	717	1880	1370
7	412	702	905	3770	1630	1790	3390	4090	5110	1240	1470	1350
8	158	747	1440	3360	1800	1990	2820	4340	5010	634	1750	1350
9	1070	1560	1140	3060	1440	1910	2870	4480	5030	298	1880	1050
10	25	1550	2510	2860	1490	1920	3060	4530	5110	33	1680	1410
11	25	1560	2880	2800	1780	2220	2470	4530	5270	60	2050	1460
12	25	696	2960	917	1730	2210	2660	4620	5330	921	2310	1490
13	98	1380	2870	814	1570	2530	2640	4850	5340	1910	1530	1570
14	107	752	2960	1410	1550	2760	2750	4980	5350	2300	2070	1760
15	25	1310	2420	1610	1490	2210	2830	5000	5350	1800	1480	1810
16	162	385	2280	1760	1600	2300	2870	5130	5360	1990	1490	1780
17	262	684	524	1830	1600	1660	2890	5410	5340	2000	1440	1770
18	129	531	1370	1710	1620	2040	2930	5590	5120	1840	1410	1740
19	661	374	1320	1800	1640	2620	2960	5530	5680	1460	895	1810
20	175	311	1370	1810	1900	2990	3000	5920	4540	1460	260	1860
21	403	298	1520	1800	1920	3050	3370	5600	4380	1680	1410	1860
22	89	1590	1650	1790	1780	3150	4120	5720	4240	1390	1220	2280
23	345	1620	1720	1790	1720	3430	4800	5680	3990	822	691	2480
24	199	859	1780	1760	1500	3390	5190	5910	3660	739	1380	1900
25	1540	367	1590	1620	1490	3610	5310	6320	3170	1410	859	1120
26	953	1570	1600	1600	1490	3820	5150	6460	2880	1410	760	1830
27	1140	975	2310	2000	1560	3750	4740	6450	2760	541	1350	1380
28	236	1550	2170	2760	1490	3780	4550	6330	2000	1430	915	1790
29	387	487	3300	2850	---	3780	4550	6080	1790	285	730	1670
30	748	1560	2940	2650	---	3770	4750	5800	2390	1490	1350	2230
31	901	---	2630	1870	---	3770	---	5400	---	1680	1340	---
TOTAL	12297	28435	56452	72361	48120	79550	107970	161720	135640	36117	41711	47152
MEAN	397	948	1821	2334	1719	2566	3599	5217	4521	1165	1346	1572
MAX	1540	1620	3300	4020	2590	3820	5310	6460	5680	2300	2310	2480
MIN	25	298	524	814	1440	1470	2470	4020	1790	33	260	379
AC-FT	24390	56400	112000	143500	95450	157800	214200	320800	269000	71640	82730	93530
CAL YR 1996	TOTAL 437836		MEAN 1196		MAX 4890		MIN 25		AC-FT 868400			
WTR YR 1997	TOTAL 827525		MEAN 2267		MAX 6460		MIN 25		AC-FT 1641000			

BEAR RIVER BASIN

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.

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 above sea level, unadjusted. Auxiliary nonrecording gage 7,800 ft downstream July 27, 1950 to Nov. 21, 1955.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,770 ft³/s May 19, 1984, gage height, 17.50 ft; minimum daily discharge, 47 ft³/s Aug. 25, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,870 ft³/s May 29, gage height 14.36 ft; minimum daily discharge, 208 ft³/s Oct. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	640	1160	1350	2930	2230	1620	4040	5140	6030	2270	1610	1500
2	607	818	1050	2920	2350	1680	4040	5060	5640	1670	1490	943
3	719	1020	e1100	3150	2770	1680	4010	5170	5490	1530	920	1020
4	1160	1030	e1400	3560	2240	1630	3920	5320	5590	1270	1280	1530
5	1040	802	e1300	4020	2130	1600	3700	5110	5670	775	e1390	1560
6	626	1290	e1460	4220	2030	1590	3660	4800	5650	930	e1440	1570
7	384	1240	e1400	4240	1940	1640	3680	4600	5580	1120	e1800	1590
8	570	961	1250	3990	1840	1920	3650	4620	5470	1230	e1730	1600
9	659	1080	1310	3570	1850	2070	3110	4720	5390	850	e2000	1550
10	1040	1400	1660	3250	1650	2080	3330	4800	5430	627	e2180	1490
11	542	1440	2450	3040	1660	2070	3190	4850	5540	310	2100	1630
12	276	1450	2740	2930	1960	2440	2960	4860	5640	367	2240	1690
13	208	1120	2880	2110	1800	2450	2940	4940	5730	1400	2280	1740
14	298	1050	2880	1780	1690	2610	2930	5110	5760	1940	1980	1830
15	505	1020	2870	2200	1640	2760	3020	5250	5740	2330	2140	2010
16	277	1180	2430	2300	1650	2530	3050	5290	5730	1850	1750	2060
17	379	797	2150	2380	1700	2500	3090	5390	5720	1960	1660	2070
18	559	862	1910	2390	1740	1930	3090	5600	5700	2050	1620	2050
19	561	816	2410	2210	1780	2290	3130	5700	5500	1900	e1570	2050
20	838	592	2170	2210	1820	2850	3160	5840	5120	1560	e1310	2130
21	779	721	e1900	2230	2030	3110	3230	6080	e4800	1530	e1060	2200
22	808	675	e2000	2090	2110	3210	3650	6040	4680	1650	1380	2210
23	527	1440	e2100	1900	1940	3340	4360	6030	e4600	e1520	1350	2660
24	684	1520	2150	2040	1840	3580	4950	6110	e4280	e1400	1250	2540
25	705	1160	2170	2210	1650	3580	5300	6320	3890	e1360	1490	2340
26	1310	990	2060	2150	1620	3830	5470	6510	3400	e1480	1240	1910
27	1400	1280	2190	2140	1650	3970	5430	6650	3100	e1490	1210	2120
28	1290	1350	e2500	2460	1670	3950	5150	6790	2890	e1210	1480	1850
29	723	1470	e3080	2980	---	3990	5020	6810	2330	e1480	1240	2090
30	723	1020	e3150	3040	---	4030	4980	6670	2090	e1200	1190	2210
31	979	---	3010	2810	---	4050	---	6410	---	1400	1470	---
TOTAL	21816	32754	64480	85450	52980	82580	115240	172590	148180	43659	48850	55743
MEAN	704	1092	2080	2756	1892	2664	3841	5567	4939	1408	1576	1858
MAX	1400	1520	3150	4240	2770	4050	5470	6810	6030	2330	2280	2660
MIN	208	592	1050	1780	1620	1590	2930	4600	2090	310	920	943
AC-FT	43270	64970	127900	169500	105100	163800	228600	342300	293900	86600	96890	110600
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950-57, 1964-97, BY WATER YEAR (WY)												
MEAN	1379	1650	1719	1829	1879	2373	2930	3018	2294	765	668	967
MAX	4240	4471	4414	3639	5966	6041	7258	9598	9201	4186	3045	3423
(WY)	1984	1985	1984	1984	1986	1986	1985	1984	1984	1983	1983	1984
MIN	95.6	621	535	620	723	913	638	71.8	77.6	72.3	55.2	62.2
(WY)	1993	1995	1995	1993	1993	1991	1992	1992	1992	1994	1992	1992
SUMMARY STATISTICS												
			FOR 1996 CALENDAR YEAR				FOR 1997 WATER YEAR			WATER YEARS 1950-57, 1964-97		
ANNUAL TOTAL			515218				924322					
ANNUAL MEAN			1408				2532			1787		
HIGHEST ANNUAL MEAN										5050		
LOWEST ANNUAL MEAN										435		
HIGHEST DAILY MEAN			4910				6810			14300		
LOWEST DAILY MEAN			102				208			47		
ANNUAL SEVEN-DAY MINIMUM			107				355			50		
ANNUAL RUNOFF (AC-FT)			1022000				1833000			1294000		
10 PERCENT EXCEEDS			3110				5350			3700		
50 PERCENT EXCEEDS			1220				2060			1440		
90 PERCENT EXCEEDS			135				857			135		

e Estimated

WEBER RIVER BASIN

10128500 WEBER RIVER NEAR OAKLEY, UT

LOCATION (REVISED).--Lat 40°44'14", long 111°14'50", in NW¹/₄SE¹/₄NE¹/₄ 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. Elevation of gage is 6,640 ft above sea level, 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 present site at different datum. Oct. 27, 1981 to July 21, 1993 at site 0.3 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. 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, 10,750 acre-ft.

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, minimum discharge, 15 ft³/s Dec. 15, 1990, Feb. 27, 1991.

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

Date	Time (ft ³ /s)	Discharge (ft)	Gage height	Date	Time (ft ³ /s)	Discharge (ft)	Gage height
May 18	0545	1,490	3.31	June 11	0145	*2,230	4.02

Minimum daily discharge, 43 ft³/s Jan. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	69	e81	e65	e51	e78	121	364	1610	352	156	132
2	119	68	e76	e66	e52	e80	117	328	1680	325	144	136
3	121	70	e80	e63	e51	e80	121	320	1630	293	151	138
4	110	72	e78	e60	e47	e79	121	350	1780	276	179	133
5	85	79	e74	e56	e45	e80	117	415	1920	256	197	133
6	82	67	e76	e55	e47	e82	115	486	1860	245	167	139
7	79	77	e78	e53	e50	e84	117	551	1830	238	158	135
8	77	72	e74	e51	e52	e84	117	600	1790	229	156	131
9	75	71	e78	e49	e56	77	118	643	1870	219	157	129
10	e74	70	e80	e47	e60	79	117	727	2030	210	156	130
11	73	70	e76	e49	e56	84	115	797	1830	199	162	136
12	71	70	e73	e54	e60	88	114	892	1550	211	154	136
13	69	70	e66	e51	e62	88	114	1020	1440	197	156	129
14	71	72	e69	e48	e65	84	118	1060	1380	182	146	128
15	70	72	e65	e50	e68	86	120	1160	1270	168	142	137
16	70	72	e61	e50	e66	89	137	1220	1100	159	137	146
17	67	70	e58	e45	e64	93	172	1280	1130	150	136	126
18	67	85	e57	e43	e69	96	213	1410	1290	147	131	124
19	73	81	e54	e45	e75	114	246	1340	1390	146	122	170
20	68	81	e52	e47	e70	120	272	1330	1330	142	122	156
21	67	77	e54	e48	e70	124	330	1310	1150	134	127	144
22	65	100	e56	e50	e70	126	288	1280	1020	140	124	136
23	68	94	e58	e54	e75	134	269	1260	879	175	123	129
24	68	80	e57	e52	e80	138	258	1340	757	173	131	120
25	73	83	e52	e49	e84	129	244	1240	638	157	128	105
26	71	75	e53	e49	e80	138	255	1050	559	152	128	122
27	66	83	e55	e53	e74	145	298	904	528	152	131	124
28	68	102	e56	e56	e72	138	379	827	480	161	129	111
29	71	82	e58	e54	---	135	423	835	438	161	127	106
30	70	77	e60	e51	---	136	358	933	392	158	125	104
31	70	---	e62	e50	---	143	---	1210	---	159	123	---
TOTAL	2398	2311	2027	1613	1771	3231	5904	28482	38551	6066	4425	3925
MEAN	77.4	77.0	65.4	52.0	63.3	104	197	919	1285	196	143	131
MAX	121	102	81	66	84	145	423	1410	2030	352	197	170
MIN	65	67	52	43	45	77	114	320	392	134	122	104
AC-FT	4760	4580	4020	3200	3510	6410	11710	56490	76470	12030	8780	7790

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 1997, BY WATER YEAR (WY)

MEAN	79.6	69.9	60.5	56.2	56.4	67.3	179	687	921	267	114	85.3
MAX	202	123	105	91.2	86.1	181	515	1279	2178	1486	259	199
(WY)	1983	1913	1984	1984	1915	1986	1910	1914	1909	1907	1983	1983
MIN	33.8	37.6	28.8	37.4	35.0	35.9	64.2	170	81.0	41.7	34.4	32.9
(WY)	1993	1978	1978	1977	1964	1977	1975	1977	1934	1934	1934	1934

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1905 - 1997

ANNUAL TOTAL	88580	100704	221
ANNUAL MEAN	242	276	415
HIGHEST ANNUAL MEAN			1907
LOWEST ANNUAL MEAN			77.4
HIGHEST DAILY MEAN	1850	2030	4170
LOWEST DAILY MEAN	43	43	20
ANNUAL SEVEN-DAY MINIMUM	50	47	23
ANNUAL RUNOFF (AC-FT)	175700	199700	159800
10 PERCENT EXCEEDS	686	1020	627
50 PERCENT EXCEEDS	115	119	80
90 PERCENT EXCEEDS	56	54	48

e Estimated

WEBER RIVER BASIN

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 up-stream 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.--Water-stage recorder. Datum of gage is sea level (levels by Bureau of Reclamation).

REMARKS.--Records good, except for estimated daily contents, which are fair. 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 daily contents, 62,820 acre-ft June 22, elevation, 6,038.8 ft; minimum daily contents, 25,970 acre-ft April 7, elevation, 5996.9 ft.

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

5,985	18,640	6,005	31,800	6,025	48,720
5,990	21,570	6,010	35,660	6,030	53,600
5,995	24,730	6,015	39,750	6,035	58,700
6,000	28,150	6,020	44,110	6,040	64,100

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39900	33890	32340	33830	30980	27300	26260	27040	42400	61190	58230	53720
2	39790	33720	32320	33970	30880	27190	26230	26940	43880	61030	58110	53490
3	39690	33530	32270	34450	30760	27070	26130	26710	45090	60930	57940	53300
4	39590	33360	32220	34720	30630	26940	e26140	26440	46320	60960	57860	53090
5	39440	33270	32190	34670	30500	26820	26010	26300	47830	60920	57840	52900
6	39280	33180	32160	34510	30310	26700	26020	26280	49270	60860	57780	52770
7	39090	33030	32180	34310	30090	26590	25970	26400	50300	60800	57690	52600
8	38920	32880	32200	34160	29960	26480	26030	26640	51370	60720	57610	52390
9	38730	32750	32250	34040	29760	26370	26080	26900	52810	60690	57490	52150
10	38470	32620	32450	33930	29580	26250	e26140	27120	54460	60630	57400	52040
11	38210	32430	32870	33830	29440	26170	26150	27480	55740	60540	57360	51950
12	37980	32260	33140	33650	29320	26130	26150	27950	56220	60550	57290	51870
13	37770	32230	33430	33460	29200	26150	26220	28560	56440	60530	57260	51750
14	37540	32180	33650	33290	29080	26140	26290	29110	56730	60440	57180	51630
15	37330	32120	33690	33130	29000	26120	26260	29550	57390	60310	57090	51510
16	37130	32060	33660	32960	28890	26160	26270	30050	58170	60250	57070	51570
17	36900	32020	e33550	32780	28770	26330	26360	30730	59060	60050	56950	51520
18	36670	32010	e33550	32630	28680	26450	26510	31700	60070	59830	56830	51330
19	36430	32110	33460	32500	28570	26470	26570	32780	61270	59700	56670	51480
20	36230	32080	33400	32390	28460	26650	26520	33630	62180	59520	56480	51700
21	36010	32040	33420	32280	28320	26700	26580	34420	62610	59320	56290	51890
22	35780	32100	e33400	32240	28230	26630	26660	35170	62820	59130	56130	51960
23	35560	32420	33440	32120	28100	26540	26570	35870	62710	58980	55960	52000
24	35340	32500	33460	31960	27960	26590	26490	36870	62520	58920	55760	52020
25	35170	32500	33460	31810	27790	26410	26420	38180	62330	58820	55570	52010
26	34950	32490	33490	31680	27660	26360	26260	38720	62090	58790	55360	51980
27	34730	32440	33540	31610	27570	e26410	26240	39090	61890	58650	55140	51960
28	34550	32400	33580	31500	27450	26330	26400	39580	61730	58560	54750	51970
29	34390	32400	33610	31370	---	e26340	26830	39890	61620	58480	54510	51920
30	34240	32370	33650	31250	---	26220	27110	40460	61460	58380	54270	51920
31	34060	---	33710	31110	---	26190	---	41250	---	58330	53940	---
MAX	39900	33890	33710	34720	30980	27300	27110	41250	62820	61190	58230	53720
MIN	34060	32010	32160	31110	27450	26120	25970	26280	42400	58330	53940	51330
(#)	6008.0	6005.7	6007.5	6004.1	5999.0	5997.2	5998.5	6016.8	6037.6	6034.6	6030.3	6028.3
(*)	-5870	-1690	+1340	-2600	-3660	-1260	+920	+14140	+20210	-3130	-4390	-2020

CAL YR 1996(*) -10,390
WTR YR 1997(*) +11,990

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

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

(e) Estimated

WEBER RIVER BASIN

193

10129500 WEBER RIVER NEAR WANSHIP, UT

LOCATION.--Lat 40°47'34", Long 111°24'15", in SE¹/₄SE¹/₄NE¹/₄ sec. 29, T. 1 N., R. 5 E., Summit County, Hydrologic Unit 16020101, on left bank 0.1 mi downstream from Wanship Dam, 1.2 mi south of Wanship and 1.25 mi upstream from Silver Creek.

DRAINAGE AREA.--335 mi².

PERIOD OF RECORD.--October 1950 to September 1955, April 1957 to September 1960, October 1988 to current year. Monthly discharges only April 1957 to September 1960, published in WSP 1734.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 5,900 ft above sea level, from topographic map. Nov. 17, 1950, to Sept. 30, 1955, water-stage recorder at site 200 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow completely regulated by Wanship Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,340 ft³/s May 30, 1951, gage height, 4.73 ft, site and datum then in use; minimum daily, 0.1 ft³/s Nov. 17-22, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,380 ft³/s June 11, gage height 3.70 ft; minimum daily discharge 140 ft³/s Nov. 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	201	153	186	e224	e196	288	575	789	315	205	208
2	212	201	152	212	e224	e196	290	559	967	280	195	208
3	211	201	154	e215	e224	e196	288	556	1050	252	199	213
4	209	199	154	e215	e224	e196	288	555	1050	242	205	213
5	208	201	154	e215	e224	196	267	554	1050	235	205	204
6	208	200	154	e215	e224	196	253	555	1040	226	203	211
7	209	201	154	e215	e224	196	223	554	1050	229	199	212
8	212	201	152	e212	e224	196	205	555	974	207	192	211
9	209	201	150	e210	e224	197	209	619	910	200	203	206
10	208	201	154	e210	e224	196	223	659	1080	194	202	203
11	205	201	154	e210	e222	196	230	662	1330	198	203	192
12	197	167	154	e210	e223	196	229	666	1370	210	206	203
13	203	146	151	e210	e224	199	227	715	1310	211	205	210
14	205	146	155	e210	e223	201	193	825	1090	199	205	209
15	203	147	158	e210	e222	201	237	892	798	182	204	217
16	204	146	155	e210	e222	200	235	897	594	166	199	219
17	202	147	154	e210	e221	246	234	906	523	191	198	222
18	200	146	154	e210	e223	318	287	911	505	187	205	223
19	201	140	154	e210	e223	342	380	954	600	188	207	224
20	201	142	154	e210	e224	360	416	992	805	199	209	226
21	201	146	154	e210	e224	474	416	997	893	200	204	225
22	199	148	154	e210	e224	485	459	1000	905	195	191	221
23	199	151	154	e215	e224	470	475	921	859	199	199	220
24	200	154	154	e215	e224	469	475	860	773	180	205	218
25	199	151	155	e215	e216	388	456	969	665	184	202	217
26	200	150	154	e218	e196	339	418	992	570	189	198	217
27	201	150	154	e219	e196	348	399	713	502	189	218	215
28	201	150	152	e220	e196	348	401	639	456	201	266	217
29	201	150	150	e223	---	339	402	615	425	203	195	214
30	201	153	152	e224	---	306	528	539	389	194	192	164
31	201	---	152	e224	---	271	---	640	---	197	201	---
TOTAL	6320	5038	4759	6598	6167	8657	9631	23046	25322	6442	6320	6362
MEAN	204	168	154	213	220	279	321	743	844	208	204	212
MAX	212	201	158	224	224	485	528	1000	1370	315	266	226
MIN	197	140	150	186	196	196	193	539	389	166	191	164
AC-FT	12540	9990	9440	13090	12230	17170	19100	45710	50230	12780	12540	12620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1997, BY WATER YEAR (WY)

MEAN	157	130	115	77.8	85.0	117	175	261	488	296	232	199
MAX	209	202	258	213	220	279	440	743	1295	846	333	288
(WY)	1994	1994	1958	1997	1997	1997	1958	1997	1995	1995	1989	1958
MIN	23.3	23.2	22.5	23.0	15.8	25.8	30.0	94.1	137	120	179	112
(WY)	1993	1993	1995	1993	1991	1992	1991	1989	1989	1958	1958	1989

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1958 - 1997

ANNUAL TOTAL	90493	114662	
ANNUAL MEAN	247	314	
HIGHEST ANNUAL MEAN			195
LOWEST ANNUAL MEAN			314
HIGHEST DAILY MEAN	1200	1370	125
LOWEST DAILY MEAN	85	140	1610
ANNUAL SEVEN-DAY MINIMUM	100	145	.10
ANNUAL RUNOFF (AC-FT)	179500	227400	.11
10 PERCENT EXCEEDS	327	665	140900
50 PERCENT EXCEEDS	208	210	326
90 PERCENT EXCEEDS	150	154	179
			25

e Estimated

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. Elevation of gage is 5,600 ft above sea level, from topographic map. Prior to Mar. 22, 1931, nonrecording gage, Mar. 22, 1931 to July 18, 1967, water-stage recorder at same site at different datum.

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

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, 1,330 ft³/s June 12, gage height, 4.57 ft; minimum daily discharge, 134 ft³/s Dec. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226	235	159	201	e218	e215	323	656	774	303	217	199
2	226	235	157	260	e217	e215	316	625	935	263	201	199
3	226	235	163	282	e215	e215	314	612	1000	234	214	206
4	227	232	158	251	e215	e215	319	611	1010	213	229	219
5	229	242	151	236	e215	e215	296	626	1010	200	224	204
6	226	234	149	245	e215	e215	273	642	1020	195	210	211
7	226	230	149	e223	e215	e215	252	644	1020	222	202	211
8	226	227	156	e224	e215	e215	236	642	959	196	190	215
9	223	226	168	223	e215	e215	238	690	905	196	202	201
10	223	226	205	223	e215	e215	243	726	1050	185	208	203
11	223	226	207	225	e215	e215	248	722	1260	179	214	189
12	218	202	189	e221	e215	e215	244	716	1300	194	218	195
13	219	169	187	e221	e215	e215	242	739	1300	196	216	199
14	221	169	179	e221	e215	e215	213	846	1160	189	216	197
15	223	167	178	e221	e215	e215	254	920	896	188	212	205
16	227	168	169	e221	e215	e215	264	927	677	160	202	218
17	229	162	174	e221	e215	e260	282	926	576	192	192	217
18	229	167	179	e221	e215	e342	337	926	554	198	197	218
19	230	168	178	e221	e215	e355	432	951	632	194	196	244
20	232	164	177	e221	e215	433	479	983	841	193	198	249
21	232	165	172	e221	e215	552	488	991	917	189	198	243
22	230	185	165	e221	e215	587	521	991	930	190	190	241
23	229	196	162	e221	e215	569	543	919	885	197	189	237
24	229	179	161	e221	e215	563	548	870	798	194	202	234
25	236	173	158	e221	e215	460	516	984	697	184	191	231
26	236	167	144	e221	e215	390	477	1020	607	188	191	234
27	229	161	138	e221	e215	399	458	783	535	189	186	234
28	232	159	134	e221	e215	384	490	674	468	199	272	233
29	235	160	137	e221	---	370	528	656	417	208	191	229
30	235	158	151	e221	---	349	587	571	374	196	187	179
31	235	---	169	e221	---	315	---	636	---	203	190	---
TOTAL	7067	5787	5123	7013	6025	9768	10961	24225	25507	6227	6345	6494
MEAN	228	193	165	226	215	315	365	781	850	201	205	216
MAX	236	242	207	282	218	587	587	1020	1300	303	272	249
MIN	218	158	134	201	215	215	213	571	374	160	186	179
AC-FT	14020	11480	10160	13910	11950	19370	21740	48050	50590	12350	12590	12880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1997, BY WATER YEAR (WY)

	MEAN	171	150	143	132	132	164	208	330	564	281	185	177
MAX	397	246	400	397	307	615	760	994	1550	815	346	277	
(WY)	1985	1986	1984	1984	1985	1986	1986	1986	1983	1995	1983	1958	
MIN	26.8	32.0	27.9	23.5	28.1	27.5	31.4	44.3	96.8	89.7	40.6	43.6	
(WY)	1993	1962	1978	1978	1981	1981	1981	1959	1977	1958	1961	1960	

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1958 - 1997

ANNUAL TOTAL	99552	120542										
ANNUAL MEAN	272	330										
HIGHEST ANNUAL MEAN										220		
LOWEST ANNUAL MEAN										485		1986
HIGHEST DAILY MEAN	1140	Jun 17								71.1		1961
LOWEST DAILY MEAN	95	Jan 17								1860	Jun 12 1983	
ANNUAL SEVEN-DAY MINIMUM	103	Jan 11								7.0	Apr 20 1977	
ANNUAL RUNOFF (AC-FT)	197500									15	May 2 1961	
10 PERCENT EXCEEDS	392									159300		
50 PERCENT EXCEEDS	231									395		
90 PERCENT EXCEEDS	158									174		
										43		

e Estimated

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 5,557.6 feet above sea level. 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. Oct. 16, 1941 to Sept. 30, 1987 at datum 3.0 ft lower.

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,790 ft³/s May 22, 1993, gage height, 6.89 ft; minimum, less than 1.0 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)
May 15	0400	*796	5.52				
Minimum discharge, 11 ft ³ /s Dec. 17.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	29	22	40	35	20	115	374	392	77	39	40
2	23	26	27	53	33	32	100	308	379	70	36	36
3	23	30	16	82	32	27	88	280	350	67	41	37
4	25	30	24	53	29	20	123	272	344	67	57	33
5	26	38	28	32	29	28	103	357	334	69	85	31
6	26	25	27	e40	22	28	84	441	311	66	67	32
7	26	28	28	e40	19	29	85	507	308	61	51	29
8	25	33	30	e44	24	31	88	524	325	58	45	34
9	25	32	34	47	26	28	96	537	407	57	43	34
10	25	30	48	45	29	33	88	593	415	54	45	34
11	25	30	55	42	30	41	77	634	393	52	62	35
12	24	32	47	29	29	50	72	631	350	57	54	40
13	23	32	51	23	26	48	71	634	391	60	50	37
14	22	31	40	32	26	39	78	619	347	55	52	35
15	22	25	22	36	31	45	82	697	295	50	53	32
16	24	29	35	32	27	54	108	683	267	48	51	46
17	25	20	11	30	32	72	139	672	260	50	46	41
18	23	42	14	31	33	72	174	674	237	42	42	38
19	28	44	26	31	24	83	200	633	236	57	40	56
20	30	40	31	31	36	98	231	588	221	72	40	62
21	27	36	34	31	20	120	281	581	202	55	43	56
22	25	43	32	31	22	136	222	550	177	48	43	52
23	31	54	32	31	30	172	216	509	165	49	45	50
24	29	36	31	25	19	196	237	511	154	63	50	44
25	32	38	29	30	23	128	228	491	139	61	44	37
26	31	29	33	35	31	120	193	422	126	46	45	40
27	23	18	36	38	31	149	220	365	113	41	39	41
28	24	26	35	29	28	112	333	333	110	41	35	35
29	34	35	34	35	---	105	494	342	101	42	37	33
30	32	20	37	26	---	97	401	353	88	35	36	33
31	30	---	39	34	---	122	---	360	---	42	37	---
TOTAL	812	961	988	1138	776	2335	5027	15475	7937	1712	1453	1183
MEAN	26.2	32.0	31.9	36.7	27.7	75.3	168	499	265	55.2	46.9	39.4
MAX	34	54	55	82	36	196	494	697	415	77	85	62
MIN	22	18	11	23	19	20	71	272	88	35	35	29
AC-FT	1610	1910	1960	2260	1540	4630	9970	30690	15740	3400	2880	2350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1997, BY WATER YEAR (WY)

	MEAN	21.5	23.7	21.1	20.7	23.5	40.1	118	284	178	47.0	23.7	21.6
MAX	66.7	60.3	54.2	49.8	94.6	168	378	775	812	194	89.9	69.2	
(WY)	1983	1985	1984	1984	1986	1986	1986	1986	1983	1983	1984	1983	
MIN	1.00	4.57	8.52	8.93	11.6	15.9	13.7	6.90	1.70	1.55	1.48	1.00	
(WY)	1935	1935	1940	1961	1940	1964	1934	1934	1934	1934	1934	1934	

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1928 - 1997

ANNUAL TOTAL	30408	39797	
ANNUAL MEAN	83.1	109	68.8
HIGHEST ANNUAL MEAN			197
LOWEST ANNUAL MEAN			8.66
HIGHEST DAILY MEAN	573	May 17	1420
LOWEST DAILY MEAN	11	Dec 17	1.0
ANNUAL SEVEN-DAY MINIMUM	14	Oct 12	1.0
ANNUAL RUNOFF (AC-FT)	60310	78940	49850
10 PERCENT EXCEEDS	247	348	186
50 PERCENT EXCEEDS	32	41	26
90 PERCENT EXCEEDS	21	25	11

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.--Water-stage recorder. Datum of gage is 5,450 ft above sea level (levels by Bureau of Reclamation). Prior to 1932, elevations obtained from mercury gage in valve house and staff gage.

REMARKS.--Records fair. 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 daily contents, 73,220 acre-ft June 28, elevation, 5,559.5 ft; minimum daily, 24,260 acre-ft. May 5, elevation, 5,517.3 ft.

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

5,495	9,110	5,520	26,620	5,545	53,360
5,500	11,830	5,525	31,180	5,550	59,880
5,505	14,920	5,530	36,100	5,555	66,740
5,510	18,480	5,535	41,440	5,560	73,940
5,515	22,390	5,540	47,200	5,561	75,420

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33310	36930	47190	51980	48280	32420	26780	26770	65960	72650	59900	50530
2	33390	37460	47480	52160	47650	32200	26720	26490	66480	72260	59660	49910
3	33550	37990	47700	52530	47010	32030	26620	25730	66940	71710	59390	49370
4	33660	38490	47940	52560	46370	31830	26770	24640	67340	71140	59290	49020
5	33680	39070	48230	52530	45730	31570	26860	24260	67760	70650	59260	48700
6	33530	39470	48500	52480	44950	31340	26940	24280	68090	70100	59360	48310
7	33470	39820	48760	52560	44290	31070	26920	24440	68420	69520	59390	47940
8	33340	40190	48990	52570	43690	30610	26860	24510	68910	68940	59350	47610
9	33230	40580	49270	52630	42950	30190	26830	24860	69610	68390	59250	47270
10	33070	40950	49680	52600	42220	29830	26800	25970	70340	67810	59100	46840
11	32910	41310	50170	52600	41570	29460	26760	28260	70720	67170	59150	46390
12	32670	41660	50570	52530	40950	29130	26730	30410	71030	66610	59140	45980
13	32470	41860	50960	52410	40270	28840	26750	32540	71490	66190	59230	45510
14	32280	42110	51320	52380	39650	28430	26680	34750	72050	65800	59310	45070
15	32270	42380	51610	52570	38980	28060	26630	36860	72560	65370	59280	44510
16	32340	42600	51880	52730	38420	27740	26640	39000	72690	64930	59070	44210
17	32220	42860	52020	52820	37800	27410	26860	41130	72670	64470	58650	43880
18	32150	43150	52090	52860	37230	27360	26950	43270	72710	64000	58220	43620
19	32200	43450	52240	52750	36630	27250	27050	45460	72720	63530	57830	43550
20	32370	43820	52190	52710	36030	27240	27120	47940	72900	63080	57470	43570
21	32490	44210	52350	52620	35390	27340	27380	50810	73120	62700	57000	43450
22	32560	44550	52520	52520	34750	27560	27320	53680	73030	62330	56460	43460
23	32660	44990	52110	52280	34160	27600	27500	56380	73010	62050	56000	43480
24	32770	45330	52090	51920	33550	27710	27640	58890	73010	61840	55490	43470
25	33170	45650	52040	51630	33290	27670	27520	61460	72990	61590	54930	43440
26	33650	45930	52070	51440	33030	27270	27080	64050	73140	61240	54410	43510
27	34130	46150	52070	51340	32860	27130	26520	65060	73100	60910	53820	43520
28	34730	46400	52020	50950	32670	27130	26270	64820	73220	60540	53330	43520
29	35330	46710	51900	50290	---	26970	26460	64890	73210	60320	52640	43530
30	35860	46930	51860	49600	---	26900	26800	65140	73030	60170	51830	43450
31	36400	---	51910	48920	---	26890	---	65650	---	60030	51090	---
MAX	36400	46930	52350	52860	48280	32420	27640	65650	73220	72650	59900	50530
MIN	32150	36930	47190	48920	32670	26890	26270	24260	65960	60030	51090	43440
(#)	5530.3	5539.8	5543.9	5541.4	5526.6	5520.3	5520.2	5554.2	5559.4	5550.1	5543.2	5536.8
(*)	+3260	+10530	+4980	-2990	-16250	-5780	-90	+38850	+7380	-13000	-8940	-7640

CAL YR 1996(*) -4,870

WTR YR 1997(*) +10,310

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

(*) Change in contents, in acre-feet

(e) Estimated

WEBER RIVER BASIN

10132000 WEBER RIVER AT ECHO, UT

LOCATION.--Lat 40°58'04", long 111°26'13", in NE¹/₄SE¹/₄NE¹/₄ sec. 25, T. 3 N., R. 4 E., Summit County, Hydrologic Unit 16020101, on right bank 0.5 mi downstream from Echo Dam, 150 yards upstream from Echo Creek, 0.75 mi southeast of Echo, Ut.

DRAINAGE AREA.--727 mi².

PERIOD OF RECORD.--April 1927 to September 1960, October 1988 to current year. Monthly discharge only October 1958 to September 1960, published in WSP 1734.

GAGE.--Water-stage recorder. Elevation of gage is 5,440 ft above sea level, from Echo Reservoir elevations. Prior to Apr. 18, 1931, staff gage at site 0.3 mi upstream at different datum. Apr. 18, 1931 to Mar. 23, 1950, water-stage recorder at site 0.1 mi downstream at different datum. Mar. 24, 1950 to Sept. 30, 1960 water-stage recorder at site 0.25 mi upstream at different datum.

REMARKS.--Records good. Flow regulated by Echo Reservoir (see station 10131500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,060 ft³/s, May 13, 1952, gage height 7.34 ft, datum then in use; minimum discharge, 0.15 ft³/s, Jan. 3, 4, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,640 ft³/s, June 13, gage height, 4.38 ft; minimum daily discharge, 1.0 ft³/s, Oct. 26-28, Nov. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	33	54	184	587	356	517	1060	912	592	313	591
2	204	33	54	184	590	356	518	1170	972	570	334	584
3	191	44	55	249	591	328	491	1340	1140	572	366	498
4	219	54	55	287	585	331	393	1530	1150	569	354	449
5	268	54	55	289	591	359	366	1390	1170	551	279	437
6	302	54	55	230	592	361	367	1160	1170	527	256	451
7	307	54	55	218	594	361	368	1160	1180	526	234	470
8	307	54	55	230	591	465	366	1160	1090	524	257	430
9	321	54	55	241	596	466	357	1170	953	523	297	431
10	330	55	55	258	597	469	357	862	1130	546	320	470
11	347	68	55	252	595	471	356	295	1530	546	261	480
12	356	75	52	262	588	472	341	298	1620	545	278	473
13	349	75	51	262	572	474	342	300	1580	469	216	475
14	319	62	52	236	566	474	344	307	1340	454	233	524
15	244	55	55	168	566	475	344	506	1060	437	266	512
16	244	55	86	170	566	475	344	510	987	432	347	461
17	214	55	108	169	566	475	344	538	848	425	453	401
18	164	55	108	234	558	503	425	540	850	424	466	393
19	165	39	135	265	572	581	587	487	849	443	435	362
20	164	1.0	192	265	565	579	664	294	934	443	433	361
21	164	34	e178	266	573	609	715	99	1130	422	479	353
22	176	55	e189	272	574	710	833	101	1130	395	503	318
23	182	55	e200	367	575	760	831	98	1120	394	524	294
24	117	55	199	388	573	797	812	96	968	361	524	294
25	1.1	55	196	371	374	797	892	102	904	362	522	289
26	1.0	55	196	347	356	799	1010	211	757	361	522	277
27	1.0	55	218	352	334	737	1000	833	683	384	523	270
28	1.0	54	236	415	328	589	997	1050	595	405	530	284
29	19	54	236	581	---	589	942	938	576	354	641	285
30	33	54	206	581	---	567	886	716	571	310	660	284
31	33	---	184	582	---	517	---	778	---	289	652	---

TOTAL	5938.1	1555.0	3680	9175	15315	16302	17109	21099	30899	14155	12478	12201
MEAN	192	51.8	119	296	547	526	570	681	1030	457	403	407
MAX	356	75	236	582	597	799	1010	1530	1620	592	660	591
MIN	1.0	1.0	51	168	328	328	341	96	571	289	216	270
AC-FT	11780	3080	7300	18200	30380	32340	33940	41850	61290	28080	24750	24200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932-58, 1989-97, BY WATER YEAR (WY)

MEAN	116	97.1	84.6	90.3	106	103	178	541	725	504	426	284
MAX	297	183	179	296	547	560	580	2158	1682	1037	597	492
(WY)	1994	1939	1958	1997	1997	1996	1938	1952	1950	1995	1990	1993
MIN	.45	.43	.29	.43	.42	.75	1.12	27.2	235	176	97.4	23.0
(WY)	1993	1993	1993	1955	1993	1993	1955	1991	1934	1934	1934	1934

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1932-58, 1989-97
ANNUAL TOTAL	130133.1	159906.1	
ANNUAL MEAN	356	438	272
HIGHEST ANNUAL MEAN			566
LOWEST ANNUAL MEAN			108
HIGHEST DAILY MEAN	1260	1620	3010
LOWEST DAILY MEAN	1.0	1.0	.17
ANNUAL SEVEN-DAY MINIMUM	13	13	.19
ANNUAL RUNOFF (AC-FT)	258100	317200	197000
10 PERCENT EXCEEDS	605	907	592
50 PERCENT EXCEEDS	300	367	163
90 PERCENT EXCEEDS	55	55	2.2

e Estimated

WEBER RIVER BASIN

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 until Apr. 29, 1989, water-stage recorder equipped with satellite transmission thereafter. Datum of gage is 5,912.3 ft above sea level, (levels by Bureau of Reclamation).

REMARKS.--Records good except for estimated daily contents, which are fair. 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. Construction on the dam in the spring of 1997 made it necessary to drain the reservoir and convert the 2,500 acre-ft, dead storage to usable contents on March 14. 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 until Apr. 29, 1989, 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 contents, 0 acre-ft many days in September, 1997. Reservoir drained for necessary construction on the dam.

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 17,870 acre-ft May 30; minimum contents, 0 acre-ft many days in September. The reservoir was drained for necessary construction on the dam.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9750	8230	7300	5620	4180	2830	48	3090	17730	13650	5990	0
2	9650	8200	7240	5570	4130	2790	e42	3340	17640	13450	5660	0
3	9540	8160	7160	5550	4090	2740	e35	3590	17560	13240	5330	0
4	9430	8130	7090	5520	4040	2690	e28	3970	17490	13040	5000	0
5	9320	8110	7030	5470	4000	2650	e22	4360	17410	12840	4640	0
6	9220	8070	6980	5410	3940	2600	e16	4960	17320	12640	4330	0
7	9120	8040	6920	5360	3880	2540	9	5610	17290	12420	4030	0
8	9020	8010	6860	5310	3830	2240	e38	6300	17190	12160	3560	0
9	8920	7980	6810	5270	3780	1910	e68	6980	17050	11900	e3220	0
10	8830	7950	6760	5230	3730	1780	e97	7680	16980	11640	e2890	0
11	8740	7910	6720	5190	3690	1460	e127	8410	16890	11410	2550	0
12	8720	7880	6680	5120	3640	999	e156	9160	16780	11350	e2380	0
13	8720	7850	6640	5060	3590	700	e185	9950	16680	11350	2210	0
14	8720	7820	6600	5010	3540	2840	e215	10720	16570	11350	2050	0
15	8720	7790	6530	4960	3490	e2590	e244	11500	16450	10810	e1890	0
16	8720	7760	6470	4910	3440	e2350	e274	12310	16310	10220	e1730	0
17	8720	7720	6400	4860	3400	2100	e303	13090	16170	9910	e1560	0
18	8690	7710	6330	4820	3350	e1860	e332	13860	16020	9650	1400	0
19	8650	7740	6270	4770	3310	1610	e362	14540	15860	9410	e1190	0
20	8600	7770	6220	4720	3260	e1460	e391	15140	15710	9160	981	0
21	8560	7790	e6200	4680	3210	1310	420	15690	15560	8910	e851	0
22	8520	7810	e6140	4630	3160	e1060	e691	16200	15380	8670	e721	0
23	8480	7800	e6070	4590	3110	e804	962	16640	15200	8420	e591	0
24	8460	7760	6020	4540	3060	551	1160	16960	15010	8200	e461	0
25	8440	7710	5960	4490	3010	e376	e1420	17270	14830	7970	331	0
26	8410	7640	5920	4460	2970	202	e1680	17520	14640	7720	224	0
27	8370	7570	5880	4420	2930	96	e1950	17710	14450	7490	136	0
28	8330	7500	5830	4370	2880	82	e2210	17780	14250	7240	77	0
29	8310	7450	5780	4330	---	80	2470	17850	14060	6930	77	0
30	8270	7370	5720	4270	---	48	2760	17870	13860	6640	e77	0
31	8250	---	5670	4220	---	48	---	17810	---	6320	77	---
MAX	9750	8230	7300	5620	4180	2840	2760	17870	17730	13650	5990	0
MIN	8250	7370	5670	4220	2880	48.0	9.0	3090	13860	6320	77.0	0
(#)	5965.7	5961.7	5953.3	5945.1	5936.4	5850.0	5915.1	5991.3	5978.0	5942.6	5853.7	5834.7
(*)	-1610	-880	-1700	-1450	-1340	-2830	-2710	+15050	-3950	-7540	-6240	-77

CAL YR 1996(*) -8,350
WTR YR 1997(*) -12,360

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

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

(e) Estimated.

WEBER RIVER BASIN

199

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.--Water-stage recorder. Prior to Oct. 1, 1989, elevations determined from direct readings on upstream face of dam on days shown. Datum of gage is 5,577.0 ft above sea level, (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.--Records good, except for estimates, which are fair. 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 daily contents, 48,870 acre-ft June 10-11, elevation, 5,706.1 ft; minimum daily contents, 28,200 acre-ft March 16, elevation, 5,671.3 ft.

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

5,660	22,870	5,680	32,730	5,700	44,760
5,665	25,150	5,685	35,530	5,705	48,110
5,670	27,550	5,690	38,470	5,710	51,610
5,675	30,080	5,695	41,550		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32220	32040	34100	36370	36040	29610	29760	36200	48730	48360	43820	e36690
2	32200	32080	34160	36420	35820	29500	29660	36710	48790	48340	43600	e36460
3	32140	32130	34190	36620	35580	29400	29510	37080	48830	48280	43380	e36230
4	32040	32180	34250	36770	35300	29290	29410	37340	48830	48240	43190	e35990
5	32010	32280	34320	36810	35020	29170	29370	37580	48830	48180	42990	e35760
6	31980	32350	34390	36820	34770	29050	29430	37830	48830	48050	42770	e35530
7	31940	32400	34440	36820	34510	28940	29470	38150	48830	47920	42540	e35360
8	31910	32450	34490	36830	34250	28830	29510	38440	48830	47820	42310	e35190
9	31870	32500	34550	36850	33990	28710	29590	38730	48850	47720	42070	e35020
10	31840	32550	34660	36860	33730	28600	29670	39070	48870	47610	41850	34840
11	31800	32600	34840	36870	33490	28510	29710	39600	48870	47500	41650	34680
12	31770	32690	34970	36870	33250	28430	29730	40140	48850	47410	41440	34530
13	31740	32750	35100	36840	33020	28370	29720	40640	48850	47330	41220	34380
14	31710	32800	35210	36830	32760	28300	29720	41140	48830	47230	41010	34260
15	31670	32850	35280	36830	32530	28240	29730	41670	48760	47120	40780	34150
16	31650	32910	35350	36830	32290	28200	29800	42220	48750	46990	40550	34050
17	31680	32950	35390	36820	32050	28240	30020	42820	48710	46820	40260	e34000
18	31660	33030	35410	36820	31830	28390	30320	43370	48680	46650	40020	e33940
19	31660	33110	35460	36820	31600	28540	30680	43890	48650	46480	39790	e33890
20	31660	33190	35510	36820	31380	28700	31060	44380	48620	46310	39550	33930
21	31650	33250	35560	36840	31140	28970	31500	44850	48590	46130	39310	33920
22	31650	33360	35620	36840	30900	29280	31950	45300	48570	45910	39080	33900
23	31660	33540	35680	36860	30660	29500	32430	45710	48540	45690	38850	33870
24	31680	33640	35740	36860	30420	29800	32890	46200	48510	45480	38590	33830
25	31730	33730	35790	36860	30170	29880	33270	46680	48500	45280	38320	33780
26	31780	33830	35870	36860	29960	29860	33570	47130	48480	45060	38080	33690
27	31820	33880	35980	36860	29850	29930	33880	47520	48460	44830	37830	33660
28	31850	33930	36060	36760	29740	29970	34330	47850	48440	44600	37590	33630
29	31890	34000	36130	36650	---	29920	34970	48150	48420	44390	37340	33600
30	31940	34050	36210	36450	---	29830	35630	48410	48390	44180	37090	33570
31	31990	---	36290	36250	---	29780	---	48620	---	44030	36870	---
MAX	32220	34050	36290	36870	36040	29970	35630	48620	48870	48360	43820	36690
MIN	31650	32040	34100	36250	29740	28200	29370	36200	48390	44030	36870	33570
(#)	5678.6	5682.4	5686.3	5686.2	5674.3	5674.4	5685.2	5705.7	5705.4	5698.9	5687.3	5681.5
(*)	-230	+2060	+2240	-40	-6510	+40	+5850	+12990	-230	-4360	-7160	-3300

CAL YR 1996.....(*) -3,430

WTR YR 1997.....(*) +1,350

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

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

(e) Estimated.

WEBER RIVER BASIN

10134500 EAST CANYON CREEK NEAR MORGAN, UT

LOCATION.--Lat 40°55'21", long 111°36'23", in SW¹/₄NW¹/₄ 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. Elevation of gage is 5,460 ft above sea level, from river-profile map.

REVISED RECORDS.--WSP 1634, WDR UT-77-1: Drainage area.

REMARKS.--Records good. No diversions between station and East Canyon Reservoir (see preceding page), which completely regulates flow.

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 daily discharge, 205 ft³/s March 31, April 1-4; minimum daily discharge, 4.6 ft³/s Nov. 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	5.5	4.7	21	145	98	205	48	140	64	144	141
2	40	5.0	4.7	30	171	99	205	48	157	81	145	142
3	38	4.7	4.7	30	171	99	205	90	170	80	145	141
4	37	4.7	4.7	36	171	98	205	108	168	76	144	139
5	37	4.8	4.7	39	171	98	137	139	166	92	144	139
6	37	4.7	4.7	38	171	99	104	152	168	96	144	122
7	37	4.7	4.7	38	154	99	104	154	167	96	144	113
8	37	4.7	4.7	38	156	99	104	154	167	96	144	114
9	37	4.7	4.7	39	157	99	104	154	170	96	143	114
10	37	4.7	4.9	39	153	99	104	72	177	96	143	114
11	37	4.7	5.1	38	153	100	104	37	178	96	142	114
12	37	4.7	4.8	37	152	100	103	37	170	96	142	114
13	37	4.7	4.7	37	149	100	104	37	170	96	144	94
14	37	4.7	4.7	37	152	100	104	38	171	96	144	85
15	37	4.7	4.7	38	156	100	104	39	162	96	144	85
16	37	4.7	4.7	39	155	100	63	39	160	113	144	84
17	36	4.7	4.7	39	155	100	47	39	149	119	144	64
18	33	4.7	4.7	39	155	100	47	39	140	118	143	55
19	32	4.6	4.7	39	154	134	47	39	134	119	143	55
20	32	4.7	4.7	39	155	154	47	39	126	119	144	55
21	28	4.7	4.7	38	149	154	47	39	118	136	144	55
22	22	4.8	4.7	39	148	186	47	40	111	143	144	55
23	19	4.7	4.7	39	149	202	47	40	102	146	146	55
24	18	4.7	4.7	38	148	203	48	40	96	145	147	55
25	14	4.7	4.7	54	148	203	48	40	92	145	147	55
26	10	4.7	4.7	61	117	202	48	40	89	145	147	55
27	9.5	4.7	4.7	77	99	202	48	40	85	145	147	49
28	7.9	4.7	4.7	85	98	202	48	40	80	144	145	46
29	6.9	4.7	4.7	87	---	201	48	43	75	144	144	46
30	5.9	4.7	4.7	90	---	202	48	73	70	144	144	46
31	5.5	---	4.7	91	---	205	---	115	---	144	143	---
TOTAL	881.7	142.2	146.4	1429	4212	4237	2724	2052	4128	3522	4472	2601
MEAN	28.4	4.74	4.72	46.1	150	137	90.8	66.2	138	114	144	86.7
MAX	43	5.5	5.1	91	171	205	205	154	178	146	147	142
MIN	5.5	4.6	4.7	21	98	98	47	37	70	64	142	46
AC-FT	1750	282	290	2830	8350	8400	5400	4070	8190	6990	8870	5160
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1997, BY WATER YEAR (WY)												
MEAN	25.6	14.8	15.9	18.2	26.8	45.5	71.7	86.7	100	109	109	68.3
MAX	170	114	210	206	254	337	269	397	378	248	206	172
(WY)	1969	1970	1984	1984	1985	1986	1948	1952	1983	1964	1975	1983
MIN	3.66	1.10	1.10	1.26	1.50	1.93	2.68	5.04	7.30	54.5	32.8	6.70
(WY)	1960	1961	1961	1961	1961	1961	1961	1991	1967	1955	1941	1961
SUMMARY STATISTICS												
FOR 1996 CALENDAR YEAR				FOR 1997 WATER YEAR				WATER YEARS 1938 - 1997				
ANNUAL TOTAL				29264.5				30547.3				
ANNUAL MEAN				80.0				83.7				
HIGHEST ANNUAL MEAN												57.8
LOWEST ANNUAL MEAN												132
HIGHEST DAILY MEAN				228				205				Mar 31
LOWEST DAILY MEAN				4.6				4.6				Nov 19
ANNUAL SEVEN-DAY MINIMUM				4.7				4.7				Nov 13
ANNUAL RUNOFF (AC-FT)				58050				60590				41840
10 PERCENT EXCEEDS				163				156				153
50 PERCENT EXCEEDS				68				85				28
90 PERCENT EXCEEDS				4.7				4.7				4.6

WEBER RIVER BASIN

10136500 WEBER RIVER AT GATEWAY, UT

LOCATION.--Lat 41°08'13", long 111°49'54", in NE¹/₄SW¹/₄SW¹/₄ 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.

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. Elevation of gage is 4,800 ft above sea level, 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. 27, 1964, at sites 1,300 ft downstream at different datums. Nov. 27, 1964 to Sept. 30, 1996, at present site at datum 10.0 ft lower.

REMARKS.--Records 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 hydro- electric 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 recorded, 30 ft³/s, Dec. 26, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,340 ft³/s, April 29, gage height, 15.78 ft; minimum daily discharge, 113 ft³/s, Nov. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	143	176	522	913	612	1360	2680	1670	547	405	462
2	214	143	178	992	945	629	1280	2470	1700	527	397	460
3	222	143	168	1550	939	607	1230	2450	1840	523	415	474
4	222	162	151	919	927	592	1170	2540	1750	518	511	441
5	253	190	157	743	918	626	1090	2620	1710	492	585	392
6	287	179	186	607	908	630	1000	2600	1730	453	503	408
7	292	171	179	531	883	634	959	2770	1730	443	435	423
8	300	162	177	563	892	787	939	2810	1690	443	400	420
9	320	162	181	562	896	807	947	2820	1610	453	438	401
10	339	159	526	567	897	834	925	2720	1880	488	551	387
11	347	160	550	548	891	901	893	1920	2330	513	589	384
12	331	173	429	487	887	1020	857	1960	2420	670	545	481
13	316	173	559	503	867	1040	842	1940	2410	687	463	452
14	301	173	407	501	863	979	843	1950	2200	586	412	466
15	295	154	280	412	867	979	842	2260	1790	493	398	466
16	330	151	265	410	866	1080	849	2160	1680	471	382	529
17	324	151	229	396	879	1450	900	2040	1470	465	389	482
18	292	223	228	437	906	1420	1110	1920	1400	472	424	419
19	289	196	239	482	895	1520	1460	1710	1350	469	443	451
20	287	145	305	485	889	1650	1750	1410	1350	480	412	500
21	297	113	329	496	863	1820	2070	1260	1470	474	387	533
22	300	322	339	510	850	1940	2070	1150	1420	454	414	506
23	342	324	363	594	859	2080	2130	1010	1360	442	404	426
24	320	229	336	607	848	2110	2090	1110	1180	452	405	417
25	245	210	327	625	722	1880	1870	1170	1120	431	408	410
26	161	202	367	798	693	1860	1920	1110	954	432	412	404
27	134	191	610	971	640	1820	1960	1410	839	417	416	389
28	131	185	529	850	607	1550	2290	1660	686	422	386	392
29	127	182	474	915	---	1450	2960	1630	623	505	401	386
30	143	172	530	907	---	1390	2450	1480	560	464	424	381
31	146	---	505	907	---	1420	---	1520	---	395	471	---
TOTAL	8077	5443	10279	20397	24010	38117	43056	60260	45922	15081	13625	13142
MEAN	261	181	332	658	858	1230	1435	1944	1531	486	440	438
MAX	347	324	610	1550	945	2110	2960	2820	2420	687	589	533
MIN	127	113	151	396	607	592	842	1010	560	395	382	381
AC-FT	16020	10800	20390	40460	47620	75610	85400	119500	91090	29910	27030	26070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1997, BY WATER YEAR (WY)

	MEAN	244	213	223	239	294	509	1003	1546	1143	546	459	362
	MAX	896	548	1463	1330	1947	2575	3000	4798	4239	1161	828	1196
	(WY)	1985	1983	1984	1984	1986	1986	1986	1952	1983	1975	1983	1983
	MIN	57.9	58.0	43.6	45.7	49.3	67.8	105	281	293	238	156	62.3
	(WY)	1993	1962	1993	1991	1993	1964	1977	1992	1977	1931	1924	1934

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1921 - 1997

ANNUAL TOTAL	218396	297409	
ANNUAL MEAN	597	815	566
HIGHEST ANNUAL MEAN			1397
LOWEST ANNUAL MEAN			143
HIGHEST DAILY MEAN	1620	2960	7390
LOWEST DAILY MEAN	113	113	32
ANNUAL SEVEN-DAY MINIMUM	138	138	35
ANNUAL RUNOFF (AC-FT)	433200	589900	409900
10 PERCENT EXCEEDS	1180	1870	1330
50 PERCENT EXCEEDS	440	529	359
90 PERCENT EXCEEDS	184	186	100

WEBER RIVER BASIN

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. Elevation of gage is 5,190 ft above sea level, 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.

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 discharge, 1440 ft³/s, May 15, gage height, 5.31 ft; minimum daily discharge, 27 ft³/s, several days in Oct. and Nov.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	* MAY	JUN	JUL	AUG	SEP
1	59	27	32	66	64	54	295	679	526	123	83	76
2	53	27	31	98	64	55	263	578	481	123	82	77
3	53	27	e30	144	63	54	245	513	431	117	82	81
4	53	27	e31	112	62	53	261	548	397	112	84	82
5	53	29	33	95	61	55	248	705	373	108	85	86
6	53	27	32	81	60	56	229	916	347	104	85	87
7	53	27	31	75	58	58	218	1080	322	101	83	86
8	48	27	31	70	57	60	217	1090	311	98	82	86
9	48	27	32	66	58	60	222	1110	335	95	81	85
10	48	27	61	64	58	64	205	1180	321	93	73	85
11	42	27	72	63	56	74	189	1220	296	93	75	87
12	42	28	66	59	56	92	178	1240	283	106	74	86
13	42	28	75	59	54	107	171	1240	278	96	70	87
14	42	28	62	58	54	103	169	1250	273	90	68	87
15	42	28	54	56	54	101	176	1340	256	88	67	88
16	43	28	49	58	54	112	221	1350	241	86	67	88
17	42	29	e47	62	55	159	345	1340	230	83	67	85
18	42	44	e44	51	57	177	508	1280	222	82	68	83
19	44	43	46	50	57	201	674	1150	211	85	69	89
20	42	37	43	51	58	236	788	984	201	91	67	88
21	42	34	42	52	58	272	871	901	194	84	67	83
22	42	47	41	52	58	286	753	820	185	84	67	70
23	42	44	40	53	57	296	722	775	177	85	67	69
24	43	36	38	61	56	293	638	779	170	84	72	68
25	49	35	39	54	56	242	531	737	164	83	72	68
26	45	33	49	79	57	231	513	636	156	83	72	69
27	43	32	66	86	57	224	592	550	148	82	72	68
28	43	32	58	75	55	229	729	507	140	83	74	68
29	39	32	54	70	---	272	884	549	134	83	75	54
30	28	31	58	66	---	264	723	544	128	84	75	58
31	27	---	61	65	---	304	---	525	---	84	76	---
TOTAL	1387	948	1448	2151	1614	4844	12778	28116	7931	2893	2301	2374
MEAN	44.7	31.6	46.7	69.4	57.6	156	426	907	264	93.3	74.2	79.1
MAX	59	47	75	144	64	304	884	1350	526	123	85	89
MIN	27	27	30	50	54	53	169	507	128	82	67	54
AC-FT	2750	1880	2870	4270	3200	9610	25350	55770	15730	5740	4560	4710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1997, BY WATER YEAR (WY)

	MEAN	42.6	40.4	42.8	43.3	51.3	95.6	279	435	166	71.3	58.7	48.8
MAX	86.0	94.0	145	108	216	419	704	931	554	149	117	104	
(WY)	1985	1984	1984	1971	1986	1986	1986	1984	1983	1975	1984	1984	
MIN	22.2	19.2	21.0	21.2	17.0	15.7	26.3	37.7	28.4	23.8	23.1	24.2	
(WY)	1978	1978	1978	1977	1977	1977	1977	1934	1934	1934	1934	1934	

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1922 - 1997

ANNUAL TOTAL	44767	68785	115
ANNUAL MEAN	122	188	260
HIGHEST ANNUAL MEAN			1986
LOWEST ANNUAL MEAN			36.8
HIGHEST DAILY MEAN	705	May 18	1640
LOWEST DAILY MEAN	27	Oct 31	13
ANNUAL SEVEN-DAY MINIMUM	27	Nov 6	13
ANNUAL RUNOFF (AC-FT)	88800	136400	83190
10 PERCENT EXCEEDS	286	548	276
50 PERCENT EXCEEDS	75	75	51
90 PERCENT EXCEEDS	32	37	32

e Estimated

WEBER RIVER BASIN

203

10139000 PINEVIEW RESERVOIR NEAR OGDEN, UT

LOCATION.--Lat 41°15'20", long 111°50'25", in SE¹/₄NW¹/₄SE¹/₄ sec. 16, T. 6 N., R. 1 E., Weber County, Hydrologic Unit 16020102, at trashrack at Pineview Dam on Ogden River 3.8 mi west of Huntsville and 6 mi east of Ogden.

DRAINAGE AREA.--311 mi².

PERIOD OF RECORD.--November 1936 to September 1968, October 1989 to current year.

GAGE.--Water-stage recorder. Prior to Oct. 1, 1989 elevations determined from direct readings of outside staff gage read once daily. Datum of gage is 4818.0 ft above sea level.

REMARKS.--Reservoir is formed by earth-fill, rock-faced dam; storage began Nov. 16, 1936; capacity, 110,100 acre-ft at elevation 4,900 ft (maximum super storage) above sea level. During September 1939, sills of radial spillway gages were raised 1 ft, thus changing the top of spillway gates from elevation 4,871 to 4,872 ft. During 1957 the storage capacity was increased by raising the crest of the spillway to 4,878 ft and elevation of maximum super storage to 4,900 ft (additional capacity, 65,920 acre-ft). Dead storage negligible. Figures given herein represent total contents. Water is used for irrigation in Weber River basin and Ogden River projects.

COOPERATION.--Capacity table provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 112,500 acre-ft June 11, 12, 1993 and June 10, 1997 of which 2,400 acre-ft was uncontrolled storage, elevation 4900.8 ft minimum, 4 acre-ft, Jan. 10, 1957, elevation, 4,819.1 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 112,500 acre-ft June 10, elevation, 4,900.8 ft; minimum daily contents, 34,000 acre-ft Oct. 15, elevation, 4,865.9 ft.

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

4,865	32,610	4,880	59,670
4,870	40,680	4,890	82,820
4,875	49,700	4,900	110,100

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37200	36400	40100	45000	53600	47900	46500	66600	110100	109100	91000	74500
2	37000	36800	40100	45700	53300	47800	46200	67500	110600	108800	90300	73800
3	36500	36700	e40100	48000	53000	47600	46000	68100	111400	108200	89600	73300
4	36100	36800	e40100	49800	53100	47400	45900	68500	111900	107600	89000	72800
5	35800	37000	40100	e50500	53300	47200	46000	69200	112100	107100	88500	72400
6	35500	37100	40200	e51200	53500	46800	46100	70500	112200	106600	88000	72000
7	35200	37200	40200	e51900	53600	46400	45900	72300	112100	106000	87600	71700
8	35000	37300	40200	52600	53700	46000	45900	74500	112100	105400	87100	71300
9	34800	37500	40200	53000	53800	45700	45800	76700	112100	104800	86600	71000
10	34700	37600	40300	53300	53900	45300	45700	79000	112300	104100	86200	70700
11	34500	37700	40800	53300	54000	45000	45600	81800	112400	103400	86000	70400
12	34400	37800	41200	53300	54200	44800	45500	84800	112400	102900	85800	70100
13	34300	37900	41800	53200	54300	44700	45600	87300	112300	102500	85600	69700
14	34100	38000	42200	53100	53800	44700	45600	89600	112300	102100	85300	69500
15	34000	38100	e42400	53000	53200	44700	45600	91700	112000	101800	85000	69200
16	34100	38200	42500	52900	52700	44700	45600	93900	111800	101300	84600	69100
17	34200	38300	e42500	52700	52200	45100	45900	95800	111600	100800	84000	68900
18	34300	38700	e42500	52600	51700	45500	46700	97700	111400	100200	83600	68800
19	34500	39000	e42500	52600	51200	45600	48100	99200	111300	99600	83100	69000
20	34600	39100	e42500	52600	50700	45800	50000	100200	111100	99100	82600	69000
21	34700	39200	e42500	52600	50200	46000	52300	100900	110900	98400	82100	69100
22	34800	39400	e42600	52500	49700	46500	54500	101600	110700	97800	81500	69200
23	34900	39800	e42600	52600	49200	47000	56300	102100	110500	97200	80800	69100
24	35100	39900	42500	52600	48700	47600	57800	102900	110300	96600	80100	69100
25	35500	40000	42500	52600	48500	47900	58500	104200	110100	95900	79500	69000
26	35700	40000	42500	52900	48400	47800	58900	105000	110000	95200	78800	69000
27	35800	40000	43000	53600	48300	47800	59500	105500	109900	94500	78100	68900
28	36000	40000	43400	54100	48100	47600	60700	106600	109800	93800	77400	68900
29	36100	40100	43800	54500	---	47300	62900	108100	109600	93100	76700	68800
30	36200	40100	44100	54400	---	46900	65000	109300	109400	92500	76000	68700
31	36300	---	44500	54000	---	46700	---	109700	---	91800	75300	---
MAX	37200	40100	44500	54500	54300	47900	65000	109700	112400	109100	91000	74500
MIN	34000	36400	40100	45000	48100	44700	45500	66600	109400	91800	75300	68700
(#)	4867.4	4869.6	4872.2	4877.2	4874.2	4873.4	4882.5	4899.9	4899.8	4893.4	4887.0	4884.1
(*)	-1100	+3800	+4400	+9500	-5900	-1400	+18300	+44700	-300	-17600	-16500	-6600

CAL YR 1996.....(*) -24,700

WTR YR 1997.....(*) +31,300

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

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

(e) Estimated.

WEBER RIVER BASIN

10140100 OGDEN RIVER BELOW PINEVIEW RESERVOIR NEAR HUNTSVILLE, UT

LOCATION.--Lat 41°15'16", long 111°51'18", in SE¹/₄NE¹/₄SE¹/₄ sec. 17, T. 6 N., R. 1 E., Weber County, Hydrologic Unit 16020102, on left bank 3,000 ft downstream from Pineview Dam, and 5.0 mi west of Huntsville.

DRAINAGE AREA.--323 mi².

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,760 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow extensively regulated by Pineview Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,390 ft³/s Dec. 18, 1991, gage height, 6.20 ft; maximum gage height, 6.71 ft. Apr. 19, 1997; minimum daily 4.0 ft³/s Jan. 10, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1340 ft³/s May 19, gage height, 6.71 ft; minimum daily discharge, 7.5 ft³/s Sept. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	e9.6	e8.1	24	333	103	877	759	649	113	240	156
2	86	e11	e7.9	100	334	103	750	742	389	138	252	142
3	163	e13	e8.2	78	151	103	673	736	332	137	249	125
4	93	e11	e13	37	12	102	565	724	411	150	235	101
5	68	e10	e13	25	11	168	425	705	472	152	157	106
6	57	e9.5	e12	17	10	210	563	718	500	155	119	108
7	24	e8.8	12	16	9.8	211	587	646	483	152	114	101
8	9.1	e9.1	12	16	9.4	211	664	589	464	149	126	88
9	9.0	e9.0	11	15	9.2	211	664	592	489	166	141	56
10	9.1	e8.8	36	73	9.4	212	639	497	513	204	129	39
11	e9.7	e9.2	32	112	9.4	216	572	410	513	205	89	47
12	e10	e9.3	22	110	9.4	223	488	540	508	177	50	49
13	e10	e8.6	32	110	169	223	461	727	519	114	41	39
14	e9.6	e8.7	17	110	306	219	461	929	544	100	63	31
15	e10	e9.3	11	109	320	219	466	1030	531	116	92	27
16	e10	e9.2	10	109	320	224	477	1110	465	126	125	17
17	e10	e9.0	8.7	108	318	355	485	1140	427	139	126	e9.4
18	e11	e13	8.6	55	318	583	469	1170	387	165	119	e9.5
19	e10	e10	8.3	13	320	635	301	1230	331	165	124	e8.3
20	e10	e9.1	8.4	35	322	758	305	1210	320	161	130	e7.5
21	e9.9	e9.0	8.6	52	320	816	305	1180	279	171	157	e8.3
22	e9.9	25	8.4	52	319	820	419	1110	212	169	172	e8.7
23	e9.9	e16	8.3	53	321	827	525	1030	180	187	178	e8.2
24	e9.9	e9.3	8.4	52	207	824	627	877	143	182	171	e11
25	e9.8	e8.0	9.2	53	109	877	716	783	116	206	172	e13
26	e9.5	e8.3	12	67	106	884	719	765	68	212	164	e12
27	e9.3	e8.8	24	71	103	882	621	479	47	214	178	e11
28	e9.3	e9.6	17	61	103	879	561	179	41	211	180	e11
29	e9.3	e9.3	13	101	---	870	399	131	39	191	188	e11
30	e9.3	e8.3	16	333	---	871	636	425	59	207	182	e12
31	e9.0	---	18	333	---	880	---	689	---	215	185	---
TOTAL	734.6	306.8	434.1	2500	4888.6	14719	16420	23852	10431	5149	4648	1372.9
MEAN	23.7	10.2	14.0	80.6	175	475	547	769	348	166	150	45.8
MAX	163	25	36	333	334	884	877	1230	649	215	252	156
MIN	9.0	8.0	7.9	13	9.2	102	301	131	39	100	41	7.5
AC-FT	1460	609	861	4960	9700	29200	32570	47310	20690	10210	9220	2720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1997, BY WATER YEAR (WY)

	MEAN	14.4	9.87	27.9	18.0	44.8	149	195	257	175	133	135	53.4
MAX	23.8	14.4	170	80.6	175	475	547	769	348	257	230	138	
(WY)	1993	1989	1992	1997	1997	1997	1997	1997	1997	1997	1991	1991	1995
MIN	8.44	7.38	6.45	6.01	6.30	7.47	10.5	23.5	32.8	22.8	29.9	15.2	
(WY)	1992	1990	1991	1992	1991	1991	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1989 - 1997

ANNUAL TOTAL	46590.5	85456.0	
ANNUAL MEAN	127	234	101
HIGHEST ANNUAL MEAN			234
LOWEST ANNUAL MEAN			29.2
HIGHEST DAILY MEAN	473	1230	1230
LOWEST DAILY MEAN	7.0	7.5	4.0
ANNUAL SEVEN-DAY MINIMUM	7.1	8.4	4.2
ANNUAL RUNOFF (AC-FT)	92410	169500	73350
10 PERCENT EXCEEDS	341	695	277
50 PERCENT EXCEEDS	57	124	21
90 PERCENT EXCEEDS	9.0	9.2	7.2

e Estimated

WEBER RIVER BASIN

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.

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 above sea level. 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. Prior to Oct. 1, 1986 at datum 10.0 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. 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, and 10134000).

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 discharge, 2,830 ft³/s May 1, gage height, 22.51 ft; minimum daily discharge, 57 ft³/s Oct. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	225	260	630	1010	202	1920	2740	e1800	99	78	175
2	57	224	260	806	1040	221	1770	2690	e1700	153	104	125
3	185	223	270	1970	958	218	1590	2540	e1760	129	108	207
4	166	234	253	1420	714	184	1470	2580	e1760	116	177	219
5	148	298	241	970	642	225	1180	2540	e1920	108	409	155
6	189	268	219	781	576	309	1120	2550	1950	90	327	171
7	197	256	282	641	538	319	1080	2500	1930	81	225	194
8	187	244	271	643	516	409	998	2420	1910	83	145	208
9	203	240	267	626	532	512	1010	2330	1910	75	109	186
10	186	236	272	666	514	521	1010	1720	2260	104	239	147
11	210	234	572	745	448	575	888	1490	2710	155	442	144
12	248	244	872	654	409	701	772	1660	2690	485	334	206
13	265	254	702	615	435	843	689	1690	2590	537	251	223
14	254	271	875	653	626	744	641	1860	2620	346	167	188
15	248	251	753	605	645	717	620	2230	2480	199	155	201
16	247	244	587	545	655	781	610	e2200	2340	127	130	244
17	280	247	463	549	671	1110	611	e2100	1990	77	113	255
18	298	360	291	540	729	1590	769	e2000	1750	94	181	183
19	399	358	232	514	699	1650	1140	e1900	1610	110	174	236
20	373	337	245	526	685	1910	1370	e1800	1530	107	167	304
21	383	289	308	624	660	2070	1590	e1730	1560	110	109	352
22	390	217	402	637	635	2300	1790	e1700	1430	87	144	351
23	434	364	382	718	654	2330	1940	e1600	1290	73	134	272
24	449	667	403	739	675	2460	2210	e1600	1040	96	118	239
25	588	454	403	770	435	2350	2140	e1580	868	90	110	227
26	368	397	377	975	317	2300	2120	e1550	620	93	125	276
27	281	355	484	1290	289	2340	2070	e1500	455	95	128	272
28	245	289	841	896	224	2120	2060	e1450	264	82	113	272
29	228	278	730	782	---	1960	2520	e1400	153	139	88	276
30	224	280	605	983	---	1890	2490	e1490	96	163	128	246
31	231	---	605	1020	---	1910	---	e1590	---	121	146	---
TOTAL	8241	8838	13727	24533	16931	37771	42188	60730	48986	4424	5378	6754
MEAN	266	295	443	791	605	1218	1406	1959	1633	143	173	225
MAX	588	667	875	1970	1040	2460	2520	2740	2710	537	442	352
MIN	57	217	219	514	224	184	610	1400	96	73	78	125
AC-FT	16350	17530	27230	48660	33580	74920	83680	120500	97160	8780	10670	13400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1997, BY WATER YEAR (WY)

	MEAN	256	279	327	353	432	702	1108	1404	810	124	86.2	165
MAX	968	748	1884	1691	2399	3502	3639	6201	4233	661	414	968	
(WY)	1985	1983	1984	1984	1986	1986	1986	1952	1983	1975	1983	1983	
MIN	27.4	20.7	41.8	35.4	40.8	44.5	59.7	15.0	10.3	6.26	3.00	27.4	
(WY)	1989	1962	1989	1989	1989	1977	1988	1961	1961	1961	1961	1956	

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1949 - 1997

ANNUAL TOTAL	193548	278501										
ANNUAL MEAN	529	763										
HIGHEST ANNUAL MEAN										503		
LOWEST ANNUAL MEAN										1427		1986
HIGHEST DAILY MEAN	1730	Mar 23								65.3		1988
LOWEST DAILY MEAN	57	Oct 2								9970		May 6 1952
ANNUAL SEVEN-DAY MINIMUM	88	Aug 11								1.0		Sep 1 1961
ANNUAL RUNOFF (AC-FT)	383900									1.0		Sep 1 1961
10 PERCENT EXCEEDS	1290									364700		
50 PERCENT EXCEEDS	359									1340		
90 PERCENT EXCEEDS	103									196		
										49		

e Estimated

JORDAN RIVER BASIN

10145400 SALT CREEK BELOW NEPHI POWERPLANT DIVERSION, NEAR NEPHI, UT

LOCATION.--Lat 39°43'02", long 111°43'58", in SE¹/₄SW¹/₄NW¹/₄ sec. 5, T. 13 S., R. 2 E., Juab County, Hydrologic Unit 16020201, on right bank 5.6 mi east of Nephi, 0.2 mi below confluence with Hopp Creek, 200 ft downstream from Nephi powerplant Diversion Dam, and 115 ft below mouth of Bradley's Canyon.

DRAINAGE AREA.--60.0 mi².

PERIOD OF RECORD.--September 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5750 ft above sea level, from topographic map.

REMARKS.--Records fair. Flow at gage is extensively regulated by Nephi City at powerplant Diversion Dam 200 ft above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 153 ft³/s April 29, 1997, gage height, 6.53 ft; minimum daily, 2.0 ft³/s Dec. 25-29, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 153 ft³/s April 29, gage height, 6.53 ft; minimum daily discharge, 3.1 ft³/s Jan. 8, 9, 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	4.5	6.0	3.3	3.8	3.7	44	108	110	21	9.8	8.7
2	4.3	4.5	6.0	3.3	3.8	3.7	39	87	95	19	9.8	9.3
3	4.5	4.6	6.0	3.8	3.8	3.8	34	72	82	18	11	8.8
4	4.7	4.5	6.0	3.4	3.8	3.8	36	71	85	17	11	8.5
5	4.8	4.8	6.0	3.3	3.8	3.7	34	84	78	15	11	8.5
6	4.5	4.8	4.9	3.3	3.8	3.8	27	97	67	14	11	8.5
7	4.8	4.8	3.8	3.3	3.8	3.8	26	106	64	14	11	8.5
8	4.8	4.8	3.6	3.1	3.8	3.8	25	108	59	13	10	8.4
9	4.5	4.8	3.6	3.1	3.8	3.8	25	107	58	12	11	8.4
10	4.3	4.6	3.8	3.2	3.8	3.8	23	111	73	13	13	8.3
11	4.0	4.7	3.8	3.1	3.8	5.0	20	114	65	12	12	8.4
12	3.8	4.5	3.8	3.2	3.8	10	18	118	60	11	14	8.2
13	4.0	4.5	3.6	3.5	3.8	15	17	117	53	10	11	8.1
14	4.0	4.5	3.5	4.0	3.8	14	16	119	51	9.9	11	8.0
15	4.0	4.8	3.5	3.9	3.7	15	16	126	48	14	10	8.0
16	4.1	4.8	3.5	3.8	3.7	19	19	129	50	16	10	8.1
17	4.1	4.8	3.5	3.8	3.7	23	29	134	50	9.3	10	8.0
18	4.1	5.9	3.5	3.9	3.8	26	51	127	51	9.3	10	8.9
19	4.1	6.7	3.5	3.8	3.8	38	82	122	52	9.4	10	8.3
20	4.3	6.7	3.5	3.8	3.8	52	99	113	51	9.5	9.6	8.1
21	4.5	6.7	3.5	3.8	3.8	64	121	108	49	9.5	9.1	8.1
22	4.5	11	3.5	3.8	3.8	70	114	105	46	9.7	9.1	7.9
23	4.4	6.8	3.5	3.8	3.7	75	124	98	41	13	8.8	7.8
24	4.4	6.3	3.4	3.8	3.6	74	111	100	35	15	8.8	7.8
25	4.5	6.3	3.3	3.8	3.7	50	92	89	32	10	8.8	7.8
26	4.3	6.3	3.3	4.0	3.7	46	87	75	30	10	8.8	8.0
27	4.4	6.3	3.3	4.0	3.8	54	100	61	28	10	8.8	7.8
28	4.5	6.3	3.3	4.0	3.8	60	127	56	26	10	8.8	8.1
29	4.5	6.3	3.3	4.0	---	49	141	58	24	10	8.7	8.1
30	4.5	6.0	3.3	3.9	---	45	120	69	23	9.8	8.7	8.1
31	4.5	---	3.5	3.8	---	50	---	89	---	9.8	8.7	---
TOTAL	137.4	166.9	122.6	112.6	105.6	891.7	1817	3078	1636	383.2	313.3	247.5
MEAN	4.43	5.56	3.95	3.63	3.77	28.8	60.6	99.3	54.5	12.4	10.1	8.25
MAX	6.7	11	6.0	4.0	3.8	75	141	134	110	21	14	9.3
MIN	3.8	4.5	3.3	3.1	3.6	3.7	16	56	23	9.3	8.7	7.8
AC-FT	273	331	243	223	209	1770	3600	6110	3250	760	621	491

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)
1993	4.72	6.73	2.80	1995	4.80	6.94	3.23	1995	3.97	6.03	2.30	1994	3.45	3.92	2.94	1994
1994	4.72	6.73	2.80	1995	4.80	6.94	3.23	1995	3.97	6.03	2.30	1994	3.45	3.92	2.94	1994
1995	4.72	6.73	2.80	1995	4.80	6.94	3.23	1995	3.97	6.03	2.30	1994	3.45	3.92	2.94	1994
1996	4.72	6.73	2.80	1995	4.80	6.94	3.23	1995	3.97	6.03	2.30	1994	3.45	3.92	2.94	1994
1997	4.72	6.73	2.80	1995	4.80	6.94	3.23	1995	3.97	6.03	2.30	1994	3.45	3.92	2.94	1994

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1993 - 1997

ANNUAL TOTAL	6170.6	9011.8	18.1
ANNUAL MEAN	16.9	24.7	24.7
HIGHEST ANNUAL MEAN			1997
LOWEST ANNUAL MEAN			1994
HIGHEST DAILY MEAN	108	141	141
LOWEST DAILY MEAN	3.3	3.1	2.0
ANNUAL SEVEN-DAY MINIMUM	3.3	3.2	2.1
ANNUAL RUNOFF (AC-FT)	12240	17870	13080
10 PERCENT EXCEEDS	53	86	61
50 PERCENT EXCEEDS	7.3	8.4	6.7
90 PERCENT EXCEEDS	3.3	3.7	3.2

JORDAN RIVER BASIN

10146000 SALT CREEK AT NEPHI, UT

LOCATION.--Lat 39°42'47", long 111°48'13", in SE¹/₄SW¹/₄NE¹/₄, sec. 3, T. 13 S., R. 1 E., Juab County, Hydrologic Unit 16020201, on right bank 1.7 mi east of Nephi.

DRAINAGE AREA.--95.6 mi².

PERIOD OF RECORD.--December 1950 to September 1980, August 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,280.00 ft above sea level. Dec. 2, 1950 to Nov. 7, 1952, at a site 0.5 mi downstream at datum 31.96 ft lower. Nov. 7, 1952 to Nov. 10, 1971, at a site 0.5 mi downstream at datum 30.53 ft lower.

REMARKS.--Records good. Flow regulated by Nephi City powerplant diversion dam about 5.0 mi above gage since December, 1984.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 832 ft³/s Aug.1,1968, gage height, 6.43 ft from floodmarks; minimum, 1.1 ft³/s Dec.13,1951, Dec.11,1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 152 ft³/s May 17, gage height, 2.75 ft; minimum daily discharge, 5.1 ft³/s Dec. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	7.3	8.4	6.6	8.0	7.5	47	115	113	26	13	11
2	8.6	7.0	8.4	6.9	8.1	7.8	42	98	100	26	13	11
3	7.7	7.1	8.3	13	7.9	7.7	37	84	88	24	13	12
4	7.6	7.0	8.4	7.9	7.6	7.7	39	80	88	22	14	11
5	7.5	8.1	8.4	7.0	7.6	7.6	36	91	82	21	13	11
6	7.3	7.3	8.2	6.4	7.6	7.8	30	103	70	20	13	11
7	7.3	6.8	7.2	6.4	7.6	7.9	29	109	69	20	13	11
8	7.3	6.6	7.0	6.7	7.6	8.1	28	114	66	19	13	11
9	7.3	6.6	7.0	6.6	7.6	8.1	28	115	62	18	14	11
10	7.0	6.6	8.6	6.4	7.6	8.2	27	113	78	18	16	11
11	7.0	6.6	9.0	6.6	7.6	8.5	25	113	71	17	15	11
12	6.8	6.6	7.5	6.4	7.6	10	24	119	67	16	18	11
13	6.7	6.6	7.1	5.7	7.6	16	23	123	60	15	15	11
14	6.6	6.6	7.0	5.9	7.6	16	22	124	57	14	14	11
15	6.7	6.6	7.0	6.6	7.6	16	21	125	51	14	13	11
16	7.2	6.6	6.9	6.4	7.6	19	22	125	53	22	13	11
17	7.4	6.7	6.0	5.8	7.8	21	26	138	53	15	13	11
18	7.6	7.1	5.1	6.4	7.8	25	45	133	53	13	13	15
19	7.7	7.5	5.5	7.5	7.7	34	75	128	55	13	13	13
20	7.6	7.6	5.8	7.6	7.7	49	89	119	55	13	13	11
21	7.6	7.8	7.1	7.6	7.7	64	112	113	53	13	12	10
22	7.6	16	7.0	7.3	7.6	72	107	112	49	13	12	10
23	7.6	13	6.8	7.6	7.6	77	118	107	44	13	12	9.9
24	7.6	9.7	6.6	7.3	7.6	77	113	108	41	20	11	9.9
25	7.8	9.1	6.6	7.7	7.6	56	94	99	37	14	11	9.9
26	7.6	8.8	6.7	11	7.6	47	89	86	34	13	11	10
27	7.6	8.7	6.7	11	8.0	55	96	74	33	13	11	9.9
28	7.6	8.7	6.6	9.0	7.8	63	118	69	31	13	11	9.6
29	7.9	8.7	6.6	8.5	---	53	141	71	30	13	11	9.5
30	7.6	8.4	6.6	8.2	---	48	125	79	28	13	11	10
31	7.4	---	6.8	8.0	---	53	---	98	---	13	11	---
TOTAL	233.8	237.8	220.9	232.0	215.3	957.9	1828	3285	1771	517	399	325.7
MEAN	7.54	7.93	7.13	7.48	7.69	30.9	60.9	106	59.0	16.7	12.9	10.9
MAX	11	16	9.0	13	8.1	77	141	138	113	26	18	15
MIN	6.6	6.6	5.1	5.7	7.6	7.5	21	69	28	13	11	9.5
AC-FT	464	472	438	460	427	1900	3630	6520	3510	1030	791	646
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-80, 1994-97, BY WATER YEAR (WY)												
MEAN	11.1	10.6	9.94	9.79	10.8	14.9	45.0	83.9	61.3	28.0	15.8	12.6
MAX	26.0	19.7	16.4	17.0	18.6	30.9	172	276	132	70.8	50.9	32.9
(WY)	1953	1953	1953	1970	1971	1997	1952	1952	1952	1952	1952	1952
MIN	4.57	5.19	3.66	4.45	4.73	5.79	6.98	12.5	10.1	6.89	5.91	5.43
(WY)	1978	1978	1994	1994	1995	1994	1961	1977	1994	1994	1993	1977
SUMMARY STATISTICS												
				FOR 1996 CALENDAR YEAR			FOR 1997 WATER YEAR			WATER YEARS 1951-80, 1994-97		
ANNUAL TOTAL				7848.2			10223.4					
ANNUAL MEAN				21.4			28.0			26.4		
HIGHEST ANNUAL MEAN										66.1		
LOWEST ANNUAL MEAN										8.11		
HIGHEST DAILY MEAN				130			141			580		
LOWEST DAILY MEAN				5.1			5.1			1.7		
ANNUAL SEVEN-DAY MINIMUM				6.2			6.2			3.0		
ANNUAL RUNOFF (AC-FT)				15570			20280			19130		
10 PERCENT EXCEEDS				65			89			66		
50 PERCENT EXCEEDS				12			11			13		
90 PERCENT EXCEEDS				6.7			6.7			7.0		

JORDAN RIVER BASIN

10146000 SALT CREEK AT NEPHI, UT

LOCATION.--39°42'47", long 111°48'13", in SE¹/₄SW¹/₄NE¹/₄, sec. 3, T. 13 S., R. 1 E., Juab County, Hydrologic Unit 16020201, on right bank 1.7 mi east of Nephi.

DRAINAGE AREA.--95.6 mi².

PERIOD OF RECORD.--April 1997 to July 1997.

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

REMARKS.--Records good. Flow regulated by Nephi City powerplant diversion dam about 5.0 mi above gage since December, 1984. Samples taken over snow melt period, bed load samples taken at two nearby points.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	CUBIC FEET PER SECOND (00061)	INST. TEMPER- ATURE WATER (DEG C) (00010)	DIS- CHARGE, SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM (70347)
APR 1997										
30...	117	7.0	127	40	76	83	90	94	99	100
MAY										
13...	121	10.5	67	22	75	83	91	96	100	--
16...	119	9.5	129	41	61	66	71	75	76	77
22...	111	8.5	78	23	72	87	93	99	100	--
27...	67	12.0	72	13	71	89	98	100	100	--
30...	79	11.0	63	13	64	84	96	100	--	--
JUN										
11...	72	12.0	65	13	81	94	97	100	100	--
JUL										
01...	27	15.0	50	3.7	81	93	97	99	100	--

EAST SIDE OF TOWN

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM (80165)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)
APR 1997							
30...	117	7.0	0	0	0	1	2
MAY							
16...	119	9.5	0	0	1	1	3
JUL							
01...	27	15.0	0	0	1	1	3

DATE	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM (80173)	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM (80174)	BED MAT. SIEVE DIAM. % FINER THAN 128 MM (80175)
APR 1997							
30...	5	9	16	24	41	85	100
MAY							
16...	6	11	18	31	53	100	100
JUL							
01...	7	12	21	32	58	100	100

JORDAN RIVER BASIN
WEST SIDE OF TOWN

209

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BED MAT. SIEVE TEMPER- ATURE WATER (DEG C) (00010)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM (80165)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)
APR 1997 30...	117	7.0	0	0	0	1	3
MAY 16...	119	9.5	0	0	0	0	0
JUL 01...	27	15.0	0	0	0	0	0

DATE	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM (80173)	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM (80174)	BED MAT. SIEVE DIAM. % FINER THAN 128 MM (80175)
APR 1997 30...	5	10	16	23	35	68	100
MAY 16...	0	1	3	8	20	70	100
JUL 01...	0	1	3	12	28	100	100

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 40 ft upstream from bridge crossing, 800 ft downstream from Burrison ponds, 0.5 mi upstream from Mona Reservoir, 1 mi southwest of Mona.

DRAINAGE AREA.--225 mi².

PERIOD OF RECORD.--June 1978 to current year.

REVISED RECORDS.--WDR UT-84-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,890 ft above sea level, from topographic map. Prior to June 10, 1985, at same site, different datum. Prior to October 1, 1992, at same site, different datum.

REMARKS.--Records good except for May 31 to Sept. 30, which is fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 595 ft³/s May 14, 1984, gage height, 6.30 ft; maximum gage height, 6.77 ft, May 31, 1983, site and datum then in use; minimum, 1.5 ft³/s Nov. 4, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 154 ft³/s Jan. 3, gage height, 6.08 ft; minimum daily discharge, 8.1 ft³/s Oct. 4

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	15	21	35	57	34	56	54	15	12	10	9.9
2	8.4	13	20	31	65	39	48	49	18	13	10	10
3	8.3	13	20	120	59	46	39	37	20	15	10	10
4	8.1	13	19	64	49	39	38	34	20	13	11	10
5	8.4	15	20	32	42	34	36	30	19	13	11	9.9
6	8.4	15	24	26	34	41	34	25	19	13	11	11
7	8.6	13	28	24	29	54	36	24	19	13	11	11
8	8.9	13	30	22	27	57	33	27	21	12	12	10
9	9.0	13	45	25	28	55	50	23	27	13	11	11
10	9.2	13	49	30	29	48	55	22	28	13	13	11
11	9.5	13	48	e34	31	44	38	21	29	14	13	11
12	9.5	12	38	e32	31	38	28	27	28	14	15	11
13	9.1	12	28	e30	29	31	23	30	26	13	15	11
14	9.0	12	26	e32	28	29	24	26	27	13	13	11
15	9.3	12	21	e34	31	31	25	32	25	12	11	11
16	9.6	16	e22	e34	34	29	22	41	26	11	11	12
17	9.8	18	e21	e32	41	28	19	41	25	12	11	12
18	9.9	18	e20	e34	54	30	18	45	24	12	12	14
19	10	20	e19	e35	51	32	18	37	22	11	11	16
20	10	23	e17	e36	52	35	18	29	20	11	9.5	16
21	10	21	e17	e40	46	46	20	25	20	10	10	16
22	10	20	e17	e50	38	62	33	25	20	10	10	15
23	10	20	17	e60	34	69	50	21	19	11	9.4	14
24	10	19	17	e70	29	70	94	25	19	11	9.1	14
25	11	20	18	e75	27	66	59	43	17	11	9.8	14
26	12	21	21	e80	31	56	37	53	14	10	9.9	17
27	11	18	36	e85	34	52	27	41	14	10	9.3	18
28	12	18	36	e90	34	55	28	30	14	11	9.1	15
29	14	20	37	76	---	59	46	24	13	11	9.6	15
30	15	22	36	69	---	52	52	23	12	10	9.8	15
31	14	---	39	54	---	50	---	20	---	11	9.5	---

TOTAL	310.4	491	827	1491	1074	1411	1104	984	620	369	337.0	381.8
MEAN	10.0	16.4	26.7	48.1	38.4	45.5	36.8	31.7	20.7	11.9	10.9	12.7
MAX	15	23	49	120	65	70	94	54	29	15	15	18
MIN	8.1	12	17	22	27	28	18	20	12	10	9.1	9.9
AC-FT	616	974	1640	2960	2130	2800	2190	1950	1230	732	668	757

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1997, BY WATER YEAR (WY)

MEAN	20.5	25.8	27.4	29.8	41.1	53.1	52.3	56.4	33.5	13.8	12.2	14.1
MAX	71.7	75.4	85.4	65.6	104	172	191	319	245	50.4	41.5	41.5
(WY)	1985	1984	1984	1986	1986	1985	1985	1984	1983	1983	1984	1984
MIN	6.26	5.22	6.64	9.01	15.1	14.3	9.25	6.16	4.92	4.24	2.98	3.60
(WY)	1993	1993	1993	1993	1992	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1979 - 1997

ANNUAL TOTAL	7237.8	9400.2	
ANNUAL MEAN	19.8	25.8	
HIGHEST ANNUAL MEAN			31.6
LOWEST ANNUAL MEAN			101
HIGHEST DAILY MEAN	169	120	566
LOWEST DAILY MEAN	3.4	8.1	1.5
ANNUAL SEVEN-DAY MINIMUM	5.5	8.4	1.8
ANNUAL RUNOFF (AC-FT)	14360	18650	22890
10 PERCENT EXCEEDS	35	50	71
50 PERCENT EXCEEDS	18	20	16
90 PERCENT EXCEEDS	7.8	10	6.8

e Estimated

JORDAN RIVER BASIN

10149500 DIAMOND FORK BELOW RED HOLLOW, NEAR THISTLE, UT

LOCATION.--Lat 40°04'43", long 111°24'32", in SE¹/₄NW¹/₄NW¹/₄ sec. 32, T. 8 S., R. 5 E., Utah County, Hydrologic Unit 16020202, on right bank 0.5 mi downstream from Red Hollow, 7.0 mi upstream from mouth, and 8 mi northeast of Thistle.

DRAINAGE AREA.--107 mi².

PERIOD OF RECORD.--October 1953 to June 1969, December 1988 to current year. Records for October and November, 1988 provided by Bureau of Reclamation.

GAGE.--Water-stage recorder. Elevation of gage is 5,260 ft above sea level, from topographic map. Prior to Dec. 8, 1988 at site approximately 0.2 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow includes water diverted from Strawberry Reservoir (capacity, 1,106,500 acre-ft) since June 30, 1973, in Colorado River basin via Strawberry tunnel for irrigation in vicinity of Spanish Fork.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,020 ft³/s July 13, 1954, gage height, 4.71 ft; minimum, 1.5 ft³/s Dec. 5, 1959, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 489 ft³/s June 25, gage height 2.76 ft; minimum daily discharge 16 ft³/s Dec. 19-22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	21	19	24	e22	24	93	322	158	395	338	299
2	20	20	24	24	e21	24	90	273	160	367	346	296
3	21	21	34	e20	e20	24	88	246	152	363	344	263
4	20	20	29	e19	e19	23	89	253	141	337	358	244
5	19	24	25	e19	e17	22	86	300	135	317	357	230
6	18	20	25	e17	e17	22	82	347	128	287	363	197
7	18	19	25	e17	e17	22	81	387	131	304	369	172
8	18	21	24	e17	e18	22	82	412	141	377	351	183
9	18	21	23	e19	e18	22	86	413	167	454	340	174
10	17	20	29	e22	e19	23	82	413	152	457	335	159
11	17	20	32	e22	e20	23	79	421	121	446	346	155
12	17	20	28	e21	e20	27	78	417	117	384	352	168
13	17	20	28	e20	e23	35	78	422	118	348	302	158
14	20	19	26	e19	e21	35	80	416	116	341	264	149
15	19	19	e22	e17	e20	34	86	405	112	310	268	147
16	20	20	e22	e18	e19	37	98	379	110	293	268	141
17	19	17	e19	e19	e19	48	122	374	123	351	278	146
18	19	27	e17	e19	e18	52	156	353	150	334	284	169
19	22	24	e16	e20	e18	58	200	318	194	305	322	240
20	21	24	e16	e20	24	71	230	297	235	302	334	237
21	19	23	e16	e19	23	83	261	278	306	293	346	231
22	19	48	e16	e18	25	93	238	248	320	292	345	231
23	20	38	e17	e19	25	99	250	228	365	310	338	217
24	20	28	e19	e20	24	105	228	232	449	288	337	184
25	22	27	e20	e22	24	84	204	222	477	270	326	171
26	20	25	e22	e21	24	84	208	203	448	292	349	148
27	19	20	e23	e20	24	94	240	181	463	282	343	139
28	22	23	24	e19	24	92	296	169	420	284	334	182
29	24	25	24	e20	---	88	386	163	436	283	333	312
30	21	22	23	e22	---	92	336	158	424	278	321	238
31	21	---	24	e23	---	100	---	161	---	324	301	---
TOTAL	613	696	711	616	583	1662	4713	9411	6969	10268	10192	5980
MEAN	19.8	23.2	22.9	19.9	20.8	53.6	157	304	232	331	329	199
MAX	26	48	34	24	25	105	386	422	477	457	369	312
MIN	17	17	16	17	17	22	78	158	110	270	264	139
AC-FT	1220	1380	1410	1220	1160	3300	9350	18670	13820	20370	20220	11860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1997, BY WATER YEAR (WY)

	MEAN	23.7	39.9	62.3	67.3	68.1	78.1	122	209	299	353	325	175
MAX	49.5	97.7	122	122	122	123	226	304	415	414	389	303	
(WY)	1989	1990	1993	1993	1993	1992	1992	1997	1989	1991	1993	1992	
MIN	13.5	14.7	17.2	14.9	19.0	29.5	25.7	54.4	203	276	250	117	
(WY)	1992	1989	1996	1996	1996	1996	1994	1991	1993	1995	1994	1991	

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1989 - 1997

ANNUAL TOTAL	46615	52414	152	
ANNUAL MEAN	127	144	194	1992
HIGHEST ANNUAL MEAN			124	1995
LOWEST ANNUAL MEAN			493	Jun 25 1994
HIGHEST DAILY MEAN	460	Jul 31	477	Jun 25
LOWEST DAILY MEAN	14	Jan 3	16	Dec 19
ANNUAL SEVEN-DAY MINIMUM	14	Jan 5	17	Dec 17 1988
ANNUAL RUNOFF (AC-FT)	92460		104000	110400
10 PERCENT EXCEEDS	370		350	370
50 PERCENT EXCEEDS	42		86	106
90 PERCENT EXCEEDS	16		19	18

e Estimated

10150500 SPANISH FORK AT CASTILLA, UT

LOCATION.--Lat 40°02'59", long 111°32'50", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ 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.

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

GAGE.--Water-stage recorder. Elevation of gage is 4,870 ft above sea level, 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 good except for estimated daily discharges, which are poor. Several small diversions for irrigation above station. Flow since June 1915 includes water diverted from Strawberry Reservoir, capacity, 1,106,500 acre-ft since June 30, 1973, 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.

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. 15, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1100 ft³/s, May 15, gage height, 6.13 ft; minimum daily discharge, 74 ft³/s, Dec. 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	107	95	117	120	106	335	862	538	582	e415	374
2	95	103	105	118	123	114	304	742	527	562	e405	378
3	97	103	87	192	121	115	298	688	506	547	e430	354
4	101	106	100	189	117	107	306	683	463	530	e450	319
5	95	114	106	126	119	101	299	759	436	504	e470	287
6	88	103	109	117	117	110	276	848	415	480	480	257
7	90	98	105	103	107	111	276	908	392	475	486	234
8	89	100	103	124	103	118	273	939	411	511	464	239
9	88	101	107	137	110	120	298	955	443	568	445	230
10	86	99	119	135	112	128	295	975	433	605	445	217
11	86	99	144	134	116	142	269	1040	378	601	446	230
12	88	99	146	131	119	172	258	1050	352	559	465	225
13	89	99	128	99	113	205	251	1050	355	500	399	208
14	88	99	118	114	110	200	252	1060	347	464	341	196
15	90	99	96	119	120	213	258	1060	343	430	338	192
16	93	101	106	100	117	283	284	1040	333	394	337	195
17	93	93	96	100	119	385	345	1030	331	433	346	199
18	93	102	74	112	124	404	428	1020	345	455	353	247
19	101	109	84	117	121	382	502	939	385	428	385	367
20	100	109	89	120	127	403	545	869	422	411	406	320
21	93	105	100	124	116	434	611	815	472	402	427	304
22	92	140	108	122	116	432	578	808	484	394	437	299
23	94	165	104	123	125	432	627	747	498	419	418	283
24	95	126	102	117	111	425	645	772	571	422	417	235
25	107	117	97	121	105	339	573	759	628	376	405	226
26	102	112	107	130	113	324	569	699	617	378	431	220
27	97	104	111	143	119	354	627	638	612	379	427	196
28	102	99	111	136	114	354	776	588	595	369	417	219
29	114	115	110	130	---	328	927	574	593	383	412	399
30	107	108	113	121	---	324	848	561	600	e400	397	365
31	108	---	113	120	---	348	---	544	---	e415	373	---
TOTAL	2979	3234	3293	3891	3254	8013	13133	26022	13825	14376	12867	8014
MEAN	96.1	108	106	126	116	258	438	839	461	464	415	267
MAX	118	165	146	192	127	434	927	1060	628	605	486	399
MIN	86	93	74	99	103	101	251	544	331	369	337	192
AC-FT	5910	6410	6530	7720	6450	15890	26050	51610	27420	28510	25520	15900
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1997, BY WATER YEAR (WY)												
MEAN	109	86.2	79.5	80.6	93.6	135	271	552	465	400	329	202
MAX	654	480	209	165	264	334	1054	2077	1593	565	525	385
(WY)	1984	1984	1984	1990	1986	1986	1952	1984	1983	1922	1985	1992
MIN	33.5	42.7	40.5	45.4	41.9	53.0	56.7	180	126	101	92.4	59.7
(WY)	1935	1962	1961	1961	1964	1964	1961	1934	1934	1934	1934	1934
SUMMARY STATISTICS			FOR 1996 CALENDAR YEAR				FOR 1997 WATER YEAR			WATER YEARS 1920 - 1997		
ANNUAL TOTAL			100219				112901					
ANNUAL MEAN			274				309			235		
HIGHEST ANNUAL MEAN										569		
LOWEST ANNUAL MEAN										86.2		
HIGHEST DAILY MEAN			837				1060			3700		
LOWEST DAILY MEAN			74				74			20		
ANNUAL SEVEN-DAY MINIMUM			88				88			27		
ANNUAL RUNOFF (AC-FT)			198800				223900			170300		
10 PERCENT EXCEEDS			525				611			509		
50 PERCENT EXCEEDS			213				247			147		
90 PERCENT EXCEEDS			95				99			60		

e Estimated

JORDAN RIVER BASIN
10154200 PROVO RIVER NEAR WOODLAND, UT

213

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.--July 1963 to current year.

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

GAGE.--Water-stage recorder. Elevation of gage is 6,950 ft above sea level, 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 diversions is available from the Provo River Water Commissioner's Report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,040 ft³/s June 7, 1986, from rating curve extended above 2,000 ft³/s on the basis of slope-area measurement of peak flow, gage height, 7.40 ft; minimum, 16 ft³/s Nov. 6, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,780 ft³/s May 18, gage height, 6.56 ft; minimum, 30 ft³/s Nov. 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	71	67	80	76	64	155	398	1760	334	161	122
2	62	69	67	81	76	70	144	343	2010	310	152	124
3	64	74	63	89	76	67	148	325	2250	290	147	130
4	66	72	68	e75	75	65	159	363	2220	274	166	126
5	64	77	69	e69	74	69	154	e476	2190	262	189	122
6	62	55	74	e72	68	67	142	e589	1910	250	164	122
7	61	74	80	e73	63	66	141	e702	1620	240	162	119
8	59	76	84	84	69	66	143	e815	1670	230	152	119
9	59	74	80	88	72	63	145	926	1550	219	150	103
10	58	71	79	89	74	66	143	1090	1360	209	157	100
11	58	70	79	86	81	70	133	1250	1190	206	158	102
12	57	73	83	77	87	76	128	1420	1080	214	170	103
13	58	73	86	75	84	80	125	1590	1040	205	177	95
14	61	73	80	77	81	73	135	1720	950	185	156	98
15	61	61	67	78	84	76	141	2000	856	172	151	98
16	62	70	86	79	79	78	167	2140	771	165	145	112
17	59	54	62	78	79	84	211	2180	759	156	144	94
18	59	79	61	82	78	83	266	2470	793	155	144	102
19	67	88	71	81	71	92	324	2260	834	162	137	169
20	64	87	70	80	80	115	358	2150	785	159	130	151
21	60	80	77	79	60	139	413	2120	696	150	137	139
22	58	105	85	77	e66	151	350	2060	597	150	132	125
23	65	96	84	77	e71	161	315	1990	516	167	128	114
24	63	79	83	72	e66	171	297	1930	455	175	125	107
25	68	86	82	80	e65	151	278	1550	405	154	122	100
26	66	61	83	84	69	154	298	1220	353	148	120	127
27	59	52	84	87	70	166	365	1000	318	144	120	137
28	68	74	87	85	69	156	474	932	291	156	116	119
29	73	81	85	84	---	149	499	1000	320	160	115	106
30	73	66	82	78	---	150	422	1210	362	156	114	100
31	73	---	80	79	---	160	---	1580	---	162	120	---

TOTAL	1949	2221	2388	2475	2063	3198	7173	41799	31911	6119	4461	3485
MEAN	62.9	74.0	77.0	79.8	73.7	103	239	1348	1064	197	144	116
MAX	73	105	87	89	87	171	499	2470	2250	334	189	169
MIN	57	52	61	69	60	63	125	325	291	144	114	94
AC-FT	3870	4410	4740	4910	4090	6340	14230	82910	63300	12140	8850	6910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1997, BY WATER YEAR (WY)

MEAN	72.8	66.2	61.1	59.2	58.5	74.8	196	790	816	258	120	82.8
MAX	155	97.9	97.3	86.9	95.7	198	370	1348	1653	730	255	166
(WY)	1983	1983	1984	1984	1986	1986	1985	1997	1995	1995	1965	1982
MIN	41.3	42.3	38.4	36.6	40.1	41.5	69.4	128	113	46.6	26.6	29.0
(WY)	1989	1993	1977	1977	1977	1977	1975	1977	1992	1992	1992	1992

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1964 - 1997

ANNUAL TOTAL	96250	109242	222
ANNUAL MEAN	263	299	351
HIGHEST ANNUAL MEAN			71.3
LOWEST ANNUAL MEAN			1986
HIGHEST DAILY MEAN	2180	May 16	2530
LOWEST DAILY MEAN	52	Nov 27	24
ANNUAL SEVEN-DAY MINIMUM	59	Oct 7	25
ANNUAL RUNOFF (AC-FT)	190900	216700	160700
10 PERCENT EXCEEDS	914	928	643
50 PERCENT EXCEEDS	91	107	80
90 PERCENT EXCEEDS	62	65	47

e Estimated

JORDAN RIVER BASIN

10154500 WEBER-PROVO DIVERSION CANAL NEAR WOODLAND, UT

LOCATION (REVISED).--Lat 40°36'50", long 111°18'15", in NE¹/₄SW¹/₄SE¹/₄ sec. 30, T. 2 S., R. 6 E., Summit County, Hydrologic Unit 16020101, on left bank 100 ft upstream from entrance to flume above Provo River valley, and 4.6 mi northwest of Woodland.

PERIOD OF RECORD.--October 1931 to July 1969, during period of diversion only, October 1988 to current year. Subsequent to September 1990 irrigation season only.

GAGE.--Water-stage recorder. Elevation of gage is 6,410 ft above sea level, from topographic map.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Canal diverts water from Weber River in NW¹/₄SW¹/₄SW¹/₄ sec. 21, T. 1 S., R. 6 E., and from Beaver Creek in SW¹/₄NE¹/₄SE¹/₄ sec. 17, T. 2 S., R. 6 E., to Provo River.

EXTREMES FOR PERIOD OF RECORD.--(Period of diversion only) Maximum daily discharge, 870 ft³/s June 4, 1957; no water diverted from Weber River or Beaver Creek for several months each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	---	---	---	---	---	---	---	---	32	17	19
2	9.9	---	---	---	---	---	---	---	---	32	17	19
3	---	---	---	---	---	---	---	---	---	31	17	20
4	---	---	---	---	---	---	---	---	---	31	18	20
5	---	---	---	---	---	---	---	---	---	30	20	19
6	---	---	---	---	---	---	---	---	---	28	13	18
7	---	---	---	---	---	---	---	---	---	25	23	18
8	---	---	---	---	---	---	---	---	---	25	25	19
9	---	---	---	---	---	---	---	---	---	25	23	21
10	---	---	---	---	---	---	---	---	---	23	30	20
11	---	---	---	---	---	---	---	---	---	23	19	19
12	---	---	---	---	---	---	---	---	---	23	17	18
13	---	---	---	---	---	---	---	---	---	22	17	17
14	---	---	---	---	---	---	---	---	---	21	15	17
15	---	---	---	---	---	---	---	---	---	21	14	15
16	---	---	---	---	---	---	---	---	---	21	14	11
17	---	---	---	---	---	---	---	---	---	21	13	8.9
18	---	---	---	---	---	---	---	---	---	20	13	10
19	---	---	---	---	---	---	---	---	---	20	14	10
20	---	---	---	---	---	---	---	---	---	20	14	5.4
21	---	---	---	---	---	---	---	---	---	20	15	5.3
22	---	---	---	---	---	---	---	---	---	20	16	4.3
23	---	---	---	---	---	---	---	---	---	20	15	5.9
24	---	---	---	---	---	---	---	---	---	20	14	6.4
25	---	---	---	---	---	---	---	---	---	20	16	5.1
26	---	---	---	---	---	---	---	---	---	20	19	9.4
27	---	---	---	---	---	---	---	---	33	20	18	6.5
28	---	---	---	---	---	---	---	---	31	19	18	4.9
29	---	---	---	---	---	---	---	---	30	19	19	7.7
30	---	---	---	---	---	---	---	---	31	18	20	11
31	---	---	---	---	---	---	---	---	---	17	19	---
TOTAL	---	---	---	---	---	---	---	---	---	707	542	390.8
MEAN	---	---	---	---	---	---	---	---	---	22.8	17.5	13.0
MAX	---	---	---	---	---	---	---	---	---	32	30	21
MIN	---	---	---	---	---	---	---	---	---	17	13	4.3
AC-FT	---	---	---	---	---	---	---	---	---	1400	1080	775

JORDAN RIVER BASIN
10155000 PROVO RIVER NEAR HAILSTONE, UT

215

LOCATION.--Lat 40°36'03", long 111°19'51", in SW¹/₄NE¹/₄SW¹/₄ sec. 36, T. 2 S., R. 5 E., Wasatch County, Hydrologic Unit 16020203, on left bank 0.25 mi downstream of bridge on State Highway 32, 4.5 mi upstream from Ross Creek and Hailstone. Prior to Apr. 8, 1993, at site 1.5 mi downstream.

DRAINAGE AREA.--219 mi².

PERIOD OF RECORD.--October 1949 to current year.

REVISED RECORDS.--WDR UT-89-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,220 ft above sea level, from topographic map. Prior to Nov. 20, 1964 at datum 1.00 ft higher. Gage relocated 1.5 mi upstream on Apr. 8, 1993, to a site above the high water line of Jordanelle Reservoir, at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Records include flow of Weber- Provo diversion canal and Duchesne Tunnel, a transbasin diversion. Flow also affected by irrigation diversions above station and by storage in several small reservoirs at headwaters. Information on flow of Duchesne Tunnel, and capacities of small reservoirs is available from Provo River Water Commissioner's Report, (total capacity, 10,080 acre-ft).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,100 ft³/s June 7, 1986, from rating curve extended above 2,500 ft³/s; gage height, 9.91 ft from floodmarks at site and datum then in use; minimum, 11 ft³/s Aug. 20, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,290 ft³/s May 18, gage height 8.85 ft; minimum daily discharge, 76 ft³/s Oct. 2, 11, 12, 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	110	e110	104	94	99	205	528	2410	387	126	95
2	76	102	110	e105	96	90	186	449	2510	315	116	114
3	82	106	e105	e110	92	83	191	417	2790	291	112	125
4	83	104	e110	e93	91	90	211	437	2760	239	137	123
5	80	118	e112	e77	93	100	197	562	2650	218	172	118
6	80	97	e115	e80	e88	106	182	673	2430	205	140	119
7	80	108	e120	e82	e84	85	183	796	2080	198	138	114
8	78	106	121	e85	e88	83	187	915	2090	190	123	115
9	78	107	107	e88	e94	82	193	1060	2000	186	117	104
10	78	106	e112	e92	e99	85	182	1290	1650	176	129	99
11	76	104	e120	e86	e106	93	165	1570	1420	178	137	104
12	76	108	e129	e82	e109	103	158	1810	1220	197	146	100
13	76	106	137	e80	e103	109	154	2030	1200	189	164	99
14	79	106	126	e84	e104	99	164	2140	1050	169	138	99
15	80	95	e118	e88	110	109	171	2470	940	147	128	114
16	80	105	e130	e89	98	119	216	2680	805	139	118	103
17	84	93	131	e90	96	139	284	2820	753	120	112	172
18	91	129	105	e92	96	143	350	3100	785	112	109	149
19	104	128	e113	e93	96	155	427	2960	844	119	102	122
20	104	122	e115	e90	98	184	480	2940	803	118	98	164
21	96	114	e114	e89	89	217	563	2840	700	106	106	144
22	92	166	e115	e88	106	240	472	2720	594	106	104	126
23	99	148	e115	e82	107	256	433	2760	507	123	99	120
24	98	117	e116	e77	e103	262	413	2730	433	143	97	115
25	108	125	e119	e81	101	213	375	2380	396	114	93	108
26	102	102	119	e85	110	222	390	1860	351	106	91	143
27	92	105	112	e88	83	235	459	1400	292	104	91	138
28	101	122	105	e90	81	205	603	1200	242	122	90	120
29	109	113	102	e92	---	194	678	1220	251	141	89	112
30	111	e110	100	e94	---	197	544	1460	369	128	79	108
31	111	---	103	96	---	216	---	2040	---	127	77	---
TOTAL	2766	3382	3566	2752	2715	4613	9416	54257	37325	5213	3578	3586
MEAN	89.2	113	115	88.8	97.0	149	314	1750	1244	168	115	120
MAX	111	166	137	110	110	262	678	3100	2790	387	172	172
MIN	76	93	100	77	81	82	154	417	242	104	77	95
AC-FT	5490	6710	7070	5460	5390	9150	18680	107600	74030	10340	7100	7110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1997, BY WATER YEAR (WY)

	MEAN	86.9	97.6	93.3	88.2	93.5	119	313	1062	977	261	97.7	81.3
MAX	191	170	156	135	228	311	824	1935	2026	856	263	203	203
(WY)	1983	1973	1956	1971	1962	1986	1962	1993	1957	1965	1965	1983	1983
MIN	43.7	59.0	55.4	54.7	55.5	65.4	113	131	102	25.3	20.9	27.2	27.2
(WY)	1955	1977	1977	1977	1977	1977	1961	1977	1992	1961	1992	1960	1960

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1954 - 1997

ANNUAL TOTAL	123904	133169	
ANNUAL MEAN	339	365	281
HIGHEST ANNUAL MEAN			445
LOWEST ANNUAL MEAN			80.2
HIGHEST DAILY MEAN	2460	May 15	3560
LOWEST DAILY MEAN	52	Aug 21	14
ANNUAL SEVEN-DAY MINIMUM	57	Aug 18	14
ANNUAL RUNOFF (AC-FT)	245800	264100	203800
10 PERCENT EXCEEDS	1190	1050	822
50 PERCENT EXCEEDS	110	115	106
90 PERCENT EXCEEDS	73	85	57

e Estimated

JORDAN RIVER BASIN
10155300 PROVO RIVER NEAR MIDWAY, UT

LOCATION.--Lat 40°30'25", long 111°26'56", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 1, T. 4 S., R. 4 E., Wasatch County, Hydrologic Unit 16020203, on left bank 150 ft downstream of bridge on State Highway 113, 1.8 miles west of Heber City.

DRAINAGE AREA.--Not determined.

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

GAGE.--Water-stage recorder. Elevation of gage is 5,490 ft above sea level, from topographic map.

REMARKS.--Records good .. Flow also affected by irrigation diversions above station and by storage in, and releases from Jordanel Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,720 ft³/s May 18, 1996, gage height 5.49 ft; minimum daily discharge, 19 ft³/s May 2, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,700 ft³/s May 26, gage height, 5.31 ft; minimum daily discharge, 95 ft³/s April 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	148	141	216	439	310	291	133	846	303	124	165
2	130	147	140	220	441	282	289	129	852	317	129	172
3	132	147	139	238	437	183	288	131	992	370	127	173
4	131	146	139	228	437	123	285	130	1060	440	131	175
5	130	150	144	222	437	163	286	134	1060	440	127	174
6	130	143	141	219	436	332	284	132	1070	436	136	174
7	131	140	140	216	436	371	264	127	1060	443	152	177
8	138	142	140	214	436	377	253	142	1060	451	139	176
9	138	146	140	213	436	378	253	185	968	453	140	178
10	140	144	156	213	392	379	228	185	625	389	144	160
11	140	145	164	214	363	381	213	193	464	350	150	147
12	139	145	161	213	305	385	213	197	461	348	152	148
13	135	145	162	247	267	387	213	192	407	349	154	148
14	135	143	155	355	209	389	146	192	374	355	152	141
15	136	151	151	441	173	393	95	191	365	349	150	137
16	137	154	151	440	293	400	107	362	359	302	149	143
17	137	146	148	439	363	411	125	493	355	213	148	153
18	137	146	163	440	497	415	129	510	354	210	146	167
19	141	143	147	439	560	354	137	600	354	208	146	174
20	141	139	145	437	688	317	140	750	378	206	143	178
21	155	138	145	436	753	320	134	760	394	202	137	174
22	148	159	147	436	880	323	129	1010	409	204	135	171
23	147	150	173	439	940	318	131	1230	426	167	134	169
24	146	143	209	436	691	314	131	1240	415	137	133	167
25	149	141	210	443	567	308	127	1240	397	135	152	167
26	148	140	213	445	565	300	125	1470	370	137	164	172
27	146	140	215	445	442	297	124	1370	366	139	152	169
28	147	140	214	442	369	296	126	1000	451	141	149	167
29	148	140	214	440	---	292	130	878	491	137	152	167
30	147	140	214	440	---	292	130	869	376	135	159	167
31	148	---	214	440	---	293	---	857	---	129	162	---
TOTAL	4338	4341	5135	10706	13252	10083	5526	17032	17559	8595	4468	4950
MEAN	140	145	166	345	473	325	184	549	585	277	144	165
MAX	155	159	215	445	940	415	291	1470	1070	453	164	178
MIN	130	138	139	213	173	123	95	127	354	129	124	137
AC-FT	8600	8610	10190	21240	26290	20000	10960	33780	34830	17050	8860	9820
CAL YR 1996	TOTAL	80680	MEAN 220	MAX 1640	MIN 19	AC-FT 160000						
WTR YR 1997	TOTAL	105985	MEAN 290	MAX 1470	MIN 95	AC-FT 210200						

JORDAN RIVER BASIN
10155400 SPRING CREEK NEAR HEBER, UT

217

LOCATION.--Lat 40°30'31", long 111°26'19", in SE¹/₄SW¹/₄SE¹/₄ sec. 36, T. 3 S., R. 4 E., Wasatch county, Hydrologic Unit 16020203, on left bank 260 ft upstream from state highway 113, 5000 ft upstream from mouth, and .8 mi west of Heber.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--May 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5500 ft above sea level, from topographic map.

REMARKS.--Records fair . Small diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 198 ft³/s Mar. 19, 1994, gage height 2.81 ft, maximum gage height, 3.14 ft, May 23, 1995; minimum daily, 4.1 ft³/s July 28, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 183 ft³/s Mar.17, gage height 2.89 ft; maximum gage height, 3.07 ft, May 24; minimum, 4.4 ft³/s April 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	26	19	e19	e16	e19	15	33	63	49	26	17
2	37	23	e16	e18	e16	e19	15	23	59	45	31	18
3	38	23	e14	e17	e16	e19	14	18	67	43	30	20
4	37	24	e15	e15	e15	e19	15	18	68	36	37	18
5	35	37	e16	e14	e15	e19	14	17	66	27	45	19
6	34	23	e16	e15	e13	e19	14	18	60	34	42	19
7	34	22	e17	e16	e12	e20	10	21	58	31	38	20
8	33	22	e18	e16	e13	e20	7.2	20	65	33	45	22
9	32	21	e19	e17	e14	e21	7.6	24	74	34	45	21
10	32	20	e18	e17	e14	e21	8.1	25	68	36	44	23
11	32	20	e19	e14	e15	e22	12	27	54	31	46	26
12	29	20	e19	e12	e15	e23	11	31	52	57	33	24
13	20	20	e18	e13	e17	24	10	31	65	50	35	23
14	20	20	e18	e13	e18	26	11	32	68	49	26	24
15	20	18	e17	e14	e19	31	11	44	62	51	22	26
16	20	19	e16	e12	e20	42	11	52	56	54	16	27
17	20	23	e14	e14	e21	94	13	62	52	63	19	28
18	20	e24	e15	e15	e22	87	15	61	51	57	19	39
19	23	e25	e15	e16	e20	85	16	54	51	48	17	50
20	24	25	e16	e16	e18	83	16	59	48	32	17	48
21	23	24	e15	e17	e17	77	18	78	47	22	21	39
22	22	e24	e15	e17	e18	55	20	77	48	24	17	31
23	22	e23	e16	e14	e18	40	22	81	49	24	15	28
24	22	e23	e17	e13	e18	30	28	111	44	20	14	27
25	26	e22	e18	e15	e18	16	25	100	42	19	13	28
26	24	e21	e18	e16	e18	16	24	82	52	12	14	39
27	23	21	e18	e16	e19	17	26	69	55	13	15	33
28	22	20	e19	e16	e19	15	35	65	52	20	13	29
29	24	21	e19	e17	---	15	40	63	46	19	12	26
30	23	20	e19	e17	---	14	35	59	e44	17	16	25
31	24	---	e19	e16	---	15	---	59	---	21	18	---
TOTAL	831	674	528	477	474	1023	518.9	1514	1686	1071	801	817
MEAN	26.8	22.5	17.0	15.4	16.9	33.0	17.3	48.8	56.2	34.5	25.8	27.2
MAX	38	37	19	19	22	94	40	111	74	63	46	50
MIN	20	18	14	12	12	14	7.2	17	42	12	12	17
AC-FT	1650	1340	1050	946	940	2030	1030	3000	3340	2120	1590	1620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1997, BY WATER YEAR (WY)

MEAN	20.0	19.5	16.7	15.6	18.8	27.4	19.9	47.0	55.5	29.2	19.1	20.2
MAX	26.8	23.1	19.2	17.5	20.8	33.0	23.1	60.5	90.5	41.4	25.8	27.2
(WY)	1997	1996	1996	1995	1995	1997	1995	1995	1995	1995	1997	1997
MIN	13.3	15.6	13.4	13.4	16.9	21.8	16.7	36.9	29.8	8.91	12.4	9.68
(WY)	1995	1995	1994	1994	1997	1994	1994	1996	1994	1994	1994	1994

SUMMARY STATISTICS

	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1994 - 1997
ANNUAL TOTAL	9531.6	10414.9	
ANNUAL MEAN	26.0	28.5	25.8
HIGHEST ANNUAL MEAN			30.0
LOWEST ANNUAL MEAN			18.6
HIGHEST DAILY MEAN	76 Jun 27	111 May 24	131 May 23 1995
LOWEST DAILY MEAN	8.4 Aug 28	7.2 Apr 8	
ANNUAL SEVEN-DAY MINIMUM	9.9 Aug 31	9.4 Apr 7	5.1 Apr 11 1994
ANNUAL RUNOFF (AC-FT)	18910	20660	18660
10 PERCENT EXCEEDS	45	55	48
50 PERCENT EXCEEDS	22	21	20
90 PERCENT EXCEEDS	14	14	12

e Estimated

JORDAN RIVER BASIN

10155500 PROVO RIVER NEAR CHARLESTON, UT

LOCATION.--Lat 40°29'03", long 111°27'46", in NE¹/₄NE¹/₄SW¹/₄ sec. 11, T. 4 S., R. 4 E., Wasatch County, Hydrologic Unit 16020203, on left bank 1,000 ft upstream from Snake Creek and 1.5 mi northeast of Charleston.

DRAINAGE AREA.--350 mi².

PERIOD OF RECORD.--Oct. 1938 to Sept. 1950, Oct. 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,460 ft above sea level, from topographic map. Prior to Oct. 1991 at different sites and datums.

REMARKS.--Records good. Records include flow of Weber-Provo diversion canal and Duchesne Tunnel, a transbasin diversion. Flow affected, by Jordanelle Reservoir, capacity 329,000 acre-ft, irrigation diversions above station and by several small reservoirs at headwaters. Information on flow of Duchesne Tunnel, and capacities of small reservoirs is available from Provo River Water Commissioner's Report, (total capacity, 10,080 acre-ft).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,280 ft³/s May 22, 1993, gage height, 6.29 ft; minimum, 13 ft³/s Oct. 24, 1940, Oct. 7, 1948 at site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,930 ft³/s May 26, gage height 5.79 ft; minimum, 150 ft³/s Apr. 14, 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	197	205	183	281	486	350	335	222	980	359	186	227
2	196	201	182	298	490	321	328	208	977	369	194	237
3	200	202	180	374	484	233	326	202	1090	419	192	245
4	199	200	180	319	483	170	326	196	1160	494	199	243
5	197	226	186	285	484	198	324	193	1150	490	196	242
6	194	198	183	274	482	364	318	192	1140	489	199	244
7	196	191	181	268	480	404	296	194	1120	488	211	246
8	203	193	180	265	480	407	279	199	1120	498	200	247
9	201	195	181	264	480	409	282	248	1050	503	202	247
10	202	194	250	264	440	408	267	253	763	438	214	230
11	204	196	306	265	413	410	263	258	583	391	242	219
12	201	197	263	246	358	419	263	268	572	399	234	218
13	186	194	256	257	321	429	260	285	541	399	240	217
14	186	192	214	366	260	436	203	302	511	405	227	210
15	186	199	193	489	221	446	153	313	492	403	222	212
16	188	207	189	491	337	470	168	474	475	365	218	225
17	188	204	183	492	417	542	187	617	469	282	217	230
18	188	242	179	491	545	544	186	637	475	270	217	257
19	199	210	177	490	614	483	193	705	478	269	212	284
20	198	196	176	488	719	448	190	844	489	262	201	287
21	217	191	176	490	775	449	188	862	498	258	199	271
22	205	294	180	489	888	435	194	1080	510	260	210	258
23	202	232	212	493	950	406	202	1300	518	232	207	255
24	202	202	265	486	716	390	201	1350	480	202	201	252
25	212	194	267	496	582	355	191	1330	453	194	218	252
26	205	189	274	506	582	350	186	1550	440	194	222	272
27	202	187	279	503	474	352	186	1480	437	194	215	265
28	202	185	276	497	402	343	201	1090	523	205	214	258
29	206	186	274	492	---	337	223	957	566	202	218	256
30	202	183	274	489	---	333	220	952	457	197	221	257
31	204	---	279	487	---	336	---	960	---	192	228	---
TOTAL	6168	6085	6778	12395	14363	11977	7139	19721	20517	10322	6576	7363
MEAN	199	203	219	400	513	386	238	636	684	333	212	245
MAX	217	294	306	506	950	544	335	1550	1160	503	242	287
MIN	186	183	176	246	221	170	153	192	437	192	186	210
AC-FT	12230	12070	13440	24590	28490	23760	14160	39120	40700	20470	13040	14600
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939-50, 1992-97, BY WATER YEAR (WY)												
MEAN	69.3	109	109	120	132	163	262	650	567	149	64.1	65.7
MAX	199	203	219	400	513	386	710	1243	1255	519	212	245
(WY)	1997	1997	1997	1997	1997	1997	1946	1993	1993	1995	1997	1997
MIN	21.4	60.5	66.0	71.8	81.9	86.7	57.6	314	41.0	23.5	18.5	16.8
(WY)	1941	1940	1995	1994	1994	1994	1995	1940	1992	1992	1992	1992
SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1939-50, 1992-97												
ANNUAL TOTAL	101917			129404			205			1997		
ANNUAL MEAN	278			355			355			1940		
HIGHEST ANNUAL MEAN							91.3					
LOWEST ANNUAL MEAN							2210			May 23 1993		
HIGHEST DAILY MEAN	1780			May 18			1550			May 26		
LOWEST DAILY MEAN	63			May 2			153			Apr 15		
ANNUAL SEVEN-DAY MINIMUM	67			Jan 21			180			Dec 16		
ANNUAL RUNOFF (AC-FT)	202200			256700			148500			15		
10 PERCENT EXCEEDS	700			553			511			1997		
50 PERCENT EXCEEDS	186			260			108			1940		
90 PERCENT EXCEEDS	73			190			34			1992		

JORDAN RIVER BASIN
10156000 SNAKE CREEK NEAR CHARLESTON, UT

219

LOCATION.--Lat 40°29'07", long 111°27'59", in NE¹/₄NW¹/₄SW¹/₄ sec. 11, T. 4 S., R. 4 E., Wasatch County, Hydrologic Unit 16020203, on right bank 700 ft upstream from mouth and 1.5 mi northeast of Charleston.

DRAINAGE AREA.--31.8 mi².

PERIOD OF RECORD.--September 1938 to October 1950, May 1993 to current year. Monthly discharge only, September 1938 to September 1945, published in WSP 1413.

GAGE.--Water-stage recorder. Elevation of gage is 5,435 ft above sea level, from topographic map. Prior to 1993 at different datum.

REMARKS.-- Records fair. Estimated discharge fair. Some diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 146 ft³/s June 14, 1995, gage height, 2.46 ft, maximum gage height, 3.63 ft Mar. 23, 1996; minimum, 19 ft³/s May 1, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 88 ft³/s June 9, gage height, 3.02 ft; minimum daily discharge, 40 ft³/s July 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	55	45	47	45	42	56	58	72	49	44	51
2	43	55	45	50	46	42	56	56	76	50	42	53
3	45	53	45	56	46	42	56	56	73	43	42	55
4	46	52	45	50	45	42	56	56	74	42	46	56
5	44	56	45	48	45	42	55	54	76	43	46	56
6	43	52	44	47	45	43	53	55	77	47	47	56
7	44	52	42	47	45	43	54	49	73	48	52	56
8	44	53	42	47	45	43	54	49	75	48	45	55
9	44	52	43	46	45	43	55	50	79	51	46	56
10	44	50	53	46	45	44	55	58	73	51	47	58
11	44	50	56	47	44	44	54	56	70	49	45	58
12	44	50	51	47	43	45	54	53	70	46	45	57
13	45	49	52	46	42	47	54	55	73	49	45	54
14	47	49	49	46	42	47	54	62	71	54	46	53
15	49	49	46	46	43	48	55	65	71	47	48	53
16	53	51	46	46	42	50	55	68	70	42	46	58
17	55	52	46	46	43	57	59	75	67	41	46	53
18	56	60	46	46	43	57	59	77	68	43	46	54
19	59	57	45	46	43	57	53	79	73	44	46	59
20	59	57	45	46	43	59	53	80	73	42	47	63
21	58	57	43	46	43	59	54	78	74	43	50	62
22	59	e61	44	47	42	58	55	77	72	46	57	61
23	58	50	44	46	42	58	57	74	71	46	57	60
24	59	47	44	44	42	57	58	76	69	50	61	60
25	60	46	45	45	42	56	55	74	63	50	50	60
26	63	46	46	48	41	57	55	69	59	47	47	61
27	60	46	47	48	42	57	55	67	60	43	47	65
28	57	45	46	47	42	56	56	66	62	44	51	64
29	57	45	46	46	---	56	59	65	62	46	50	65
30	56	45	46	45	---	56	58	62	60	40	54	64
31	54	---	47	45	---	57	---	63	---	41	51	---

TOTAL	1596	1542	1429	1453	1216	1564	1662	1982	2106	1425	1492	1736
MEAN	51.5	51.4	46.1	46.9	43.4	50.5	55.4	63.9	70.2	46.0	48.1	57.9
MAX	63	61	56	56	46	59	59	80	79	54	61	65
MIN	43	45	42	44	41	42	53	49	59	40	42	51
AC-FT	3170	3060	2830	2880	2410	3100	3300	3930	4180	2830	2960	3440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939-50, 1994-97, BY WATER YEAR (WY)

MEAN	45.8	47.3	43.6	41.7	41.5	45.6	46.3	55.1	59.5	44.6	39.6	40.2
MAX	57.5	62.9	53.9	49.9	55.0	52.2	57.8	87.5	86.8	59.4	50.1	57.9
(WY)	1946	1946	1946	1946	1945	1945	1945	1943	1995	1995	1945	1997
MIN	35.5	33.8	36.2	35.4	33.6	36.2	36.3	38.6	35.5	26.3	28.5	29.6
(WY)	1940	1940	1940	1941	1941	1940	1941	1994	1994	1994	1940	1939

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1939-50, 1994-97

ANNUAL TOTAL	17488	19203	
ANNUAL MEAN	47.8	52.6	45.8
HIGHEST ANNUAL MEAN			52.6
LOWEST ANNUAL MEAN			36.2
HIGHEST DAILY MEAN	82	80	113
LOWEST DAILY MEAN	37	40	24
ANNUAL SEVEN-DAY MINIMUM	40	42	25
ANNUAL RUNOFF (AC-FT)	34690	38090	33200
10 PERCENT EXCEEDS	56	66	57
50 PERCENT EXCEEDS	46	50	44
90 PERCENT EXCEEDS	42	43	35

e Estimated

JORDAN RIVER BASIN

10157000 DANIELS CREEK ABOVE DIVERSIONS NEAR HEBER CITY, UT

LOCATION.--Lat 40°25'54", long 111°21'07", in NW¹/₄SE¹/₄NW¹/₄ sec. 35, T. 4 S., R. 5 E., Wasatch County, Hydrologic Unit 16020203, on right bank 6 mi southeast of Heber City and 7.5 mi upstream from Deer Creek Reservoir.

DRAINAGE AREA.--37.2 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,110 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Records may include flow diverted from Strawberry River drainage through Hobbie Creek and Strawberry River ditches which are transbasin diversions.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 191 ft³/s May 14, 1997, gage height 5.92 ft; maximum gage height, 6.17 ft, May 22, 1993; minimum, 1.1 ft³/s Mar. 7, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 191 ft³/s May 14, gage height 5.92 ft; minimum daily, 30 ft³/s Dec. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR-OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	4.4	3.7	4.4	4.4	e4.2	12	77	76	21	12	8.1
2	6.3	4.4	e3.6	4.8	4.1	e4.3	12	62	69	21	11	8.1
3	6.4	4.4	3.5	e4.6	3.9	e4.2	11	52	61	21	11	8.8
4	6.8	4.4	4.1	e4.0	e3.6	e4.0	12	55	56	20	13	8.6
5	6.4	5.1	4.1	3.5	e3.4	e4.2	11	80	48	19	15	8.3
6	6.2	4.5	4.2	e3.4	e3.3	e4.4	11	102	41	18	12	8.3
7	6.1	4.3	4.2	e3.8	e3.2	e4.4	10	119	35	17	11	8.3
8	6.1	4.3	4.3	e4.2	e3.2	e4.5	9.9	125	33	17	10	8.2
9	6.0	4.4	4.3	e4.7	e3.3	4.6	10	129	32	17	10	8.5
10	5.9	4.3	5.3	4.4	e3.4	4.5	10	136	28	17	11	9.3
11	5.8	4.1	5.5	4.4	e3.6	4.4	9.5	150	25	16	10	8.3
12	5.8	4.0	5.5	e4.3	e3.7	4.5	9.1	151	23	17	13	8.2
13	5.8	4.0	5.3	e3.6	e3.8	5.8	9.3	147	24	16	12	8.0
14	6.0	4.1	4.8	e4.2	e3.8	6.4	9.3	148	22	15	10	8.2
15	5.8	4.0	3.7	e4.6	e3.9	6.4	9.8	151	21	15	9.5	8.1
16	5.9	4.0	e3.6	e4.2	e4.0	7.1	11	144	20	14	8.9	9.0
17	5.8	3.8	e3.2	e3.4	e4.0	8.2	16	144	18	14	8.8	8.0
18	5.9	4.7	e3.0	e3.9	e4.0	8.2	22	133	18	14	9.2	9.6
19	7.0	4.6	e3.6	e4.4	e4.0	9.1	33	124	17	14	8.7	14
20	6.3	4.4	e4.0	e4.6	e3.9	11	46	114	16	13	8.5	10
21	6.0	4.3	e3.9	e4.8	e3.7	12	58	116	15	13	8.5	9.4
22	6.0	e4.2	e3.8	e4.8	e3.7	13	50	104	17	13	8.4	8.7
23	6.3	e4.1	e3.6	e4.8	e3.8	14	51	95	23	15	8.2	8.4
24	5.9	e4.1	e3.6	e3.6	e3.7	14	43	104	23	14	8.2	7.9
25	6.4	e4.0	e3.7	e4.0	e3.5	12	35	95	22	13	7.9	8.2
26	6.0	e4.0	e3.7	e4.6	e4.5	11	35	77	21	13	8.0	12
27	5.6	4.0	e3.8	5.0	e4.3	12	48	65	20	13	8.0	11
28	4.6	e3.8	3.5	4.8	e4.1	12	80	57	20	13	7.9	9.1
29	4.4	e3.8	3.9	4.8	---	12	100	60	20	13	7.6	8.5
30	4.5	e3.7	4.1	4.6	---	12	85	62	21	13	7.8	8.2
31	4.6	---	4.3	4.6	---	13	---	71	---	12	7.9	---
TOTAL	182.5	126.2	125.4	133.8	105.8	251.4	868.9	3249	885	481	303.0	267.3
MEAN	5.89	4.21	4.05	4.32	3.78	8.11	29.0	105	29.5	15.5	9.77	8.91
MAX	7.0	5.1	5.5	5.0	4.5	14	100	151	76	21	15	14
MIN	4.4	3.7	3.0	3.4	3.2	4.0	9.1	52	15	12	7.6	7.9
AC-FT	362	250	249	265	210	499	1720	6440	1760	954	601	530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1997, BY WATER YEAR (WY)

	1996	1996	1996	1997	1996	1997	1997	1997	1995	1995	1995	1997
MEAN	4.72	3.41	3.40	3.42	3.49	5.96	17.2	74.5	37.2	14.2	8.52	6.76
MAX	6.40	4.51	4.14	4.32	3.89	8.11	29.0	105	76.9	22.4	13.0	8.91
(WY)	1996	1996	1996	1997	1996	1997	1997	1997	1995	1995	1995	1997
MIN	2.66	2.61	2.78	2.13	3.06	4.00	11.6	37.3	13.6	5.34	3.74	3.14
(WY)	1993	1993	1995	1995	1995	1994	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1993 - 1997

ANNUAL TOTAL	5736.7	6979.3	15.3
ANNUAL MEAN	15.7	19.1	19.1
HIGHEST ANNUAL MEAN			1997
LOWEST ANNUAL MEAN			1994
HIGHEST DAILY MEAN	127	151	153
LOWEST DAILY MEAN	3.0	3.0	1.4
ANNUAL SEVEN-DAY MINIMUM	3.6	3.3	1.6
ANNUAL RUNOFF (AC-FT)	11380	13840	11090
10 PERCENT EXCEEDS	46	56	40
50 PERCENT EXCEEDS	6.3	8.2	5.9
90 PERCENT EXCEEDS	3.8	3.8	2.9

e Estimated

JORDAN RIVER BASIN

221

10157500 DANIELS CREEK AT CHARLESTON, UT

LOCATION.--Lat 40°27'39", long 111°28'19", in SE¹/₄NE¹/₄NE¹/₄ sec. 22, T. 4 S., R. 4 E., Wasatch County, Hydrologic Unit 16020203, on left bank 3 ft above capacity elevation of Deer Creek Reservoir, 200 ft downstream from culvert on State Highway 113 in old town of Charleston and 3.5 mi south of Midway.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--May 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,420 ft above sea level, from topographic map.

REMARKS.--Records good except estimated daily discharges, which are fair. Small transbasin diversions from Strawberry River Basin drain into Daniels Creek. Flow also affected by irrigation diversions above station and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 274 ft³/s May 23, 1995, gage height 3.92 ft; no flow several days in July and August, 1994, September 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 165 ft³/s May 18, gage height, 3.40 ft; minimum daily discharge, 0.66 ft³/s Aug. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	5.2	1.9	4.8	5.6	6.2	7.9	90	55	8.9	10	5.2
2	4.0	4.9	1.7	5.3	6.1	5.4	7.7	68	52	13	7.2	6.9
3	4.3	5.0	e1.5	e5.2	5.5	5.5	6.9	53	46	13	8.0	8.9
4	4.2	5.1	e1.6	e4.8	5.5	5.4	6.9	52	54	10	5.2	8.8
5	4.4	7.2	e1.6	e4.6	5.6	5.5	7.7	63	48	11	7.3	4.7
6	4.1	5.8	e1.7	e4.6	5.4	5.0	7.4	102	46	12	8.8	1.0
7	3.9	5.5	e1.7	e5.0	e5.3	4.9	9.1	114	44	9.2	8.3	3.3
8	3.7	5.7	e1.7	e4.2	4.5	4.3	14	125	52	4.9	6.3	6.3
9	3.2	5.6	1.9	3.6	3.0	2.0	15	120	56	2.8	10	5.4
10	2.9	5.6	e2.0	4.0	e2.5	1.9	15	123	58	4.6	12	3.3
11	3.4	6.4	e2.2	4.0	e2.3	1.9	15	132	56	6.1	17	1.7
12	3.3	6.4	e2.4	e3.7	e2.2	2.1	16	129	43	6.6	22	2.7
13	2.7	6.3	e2.7	e3.4	e2.1	2.5	15	125	51	6.9	25	7.2
14	2.4	6.2	e3.0	e3.1	e1.9	3.0	15	127	48	3.5	32	7.5
15	2.2	6.4	e3.2	e3.2	2.1	2.0	15	133	46	5.1	26	5.3
16	2.0	5.0	3.3	e3.4	4.9	2.1	16	127	47	2.4	15	6.0
17	1.9	.89	e3.2	e3.3	5.0	2.3	15	137	45	2.0	10	9.0
18	2.2	2.5	e3.0	e3.4	5.4	2.6	20	131	42	2.7	14	12
19	2.6	4.0	e3.2	e3.5	5.3	2.7	32	117	42	2.3	12	11
20	2.6	2.1	e3.3	e3.6	5.6	4.3	42	106	37	2.2	13	7.1
21	2.5	1.6	e3.3	e3.7	5.6	11	50	108	27	3.9	12	10
22	2.3	9.2	e3.3	e3.7	5.6	12	45	103	20	6.7	7.7	9.6
23	2.2	7.2	e3.3	e3.7	5.6	11	52	89	26	7.9	5.4	8.8
24	2.4	3.8	e3.3	e3.9	5.9	12	49	112	27	7.3	5.2	8.5
25	2.9	3.3	e3.4	e3.7	5.2	11	47	119	27	8.2	5.9	6.8
26	2.6	2.6	e3.3	e3.8	5.1	9.2	57	97	22	10	4.3	9.0
27	2.5	2.3	3.3	3.8	5.7	7.5	61	79	20	7.5	1.6	8.6
28	2.4	2.3	3.6	6.4	5.4	7.2	92	56	14	5.1	1.9	7.9
29	2.7	2.2	3.6	6.2	---	6.9	111	53	11	2.5	.66	8.5
30	3.6	1.9	3.5	6.1	---	6.8	99	55	11	5.5	1.9	6.7
31	5.0	---	4.1	5.6	---	7.7	---	52	---	4.4	6.2	---

TOTAL	95.4	138.19	84.8	131.3	129.9	173.9	961.6	3097	1173	198.2	321.86	207.7
MEAN	3.08	4.61	2.74	4.24	4.64	5.61	32.1	99.9	39.1	6.39	10.4	6.92
MAX	5.0	9.2	4.1	6.4	6.1	12	111	137	58	13	32	12
MIN	1.9	.89	1.5	3.1	1.9	1.9	6.9	52	11	2.0	.66	1.0
AC-FT	189	274	168	260	258	345	1910	6140	2330	393	638	412

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1997, BY WATER YEAR (WY)

MEAN	4.94	3.72	3.20	3.78	4.07	3.92	19.0	72.1	43.8	8.13	9.50	6.27
MAX	9.38	4.61	4.10	5.00	5.07	5.61	32.1	99.9	110	16.0	19.5	8.89
(WY)	1994	1996	1996	1994	1994	1997	1997	1997	1995	1995	1993	1993
MIN	2.95	2.09	2.25	2.56	3.27	2.56	13.3	26.2	6.38	.24	1.65	3.14
(WY)	1995	1995	1995	1995	1996	1995	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1992 - 1997

ANNUAL TOTAL	4569.09	6712.85	
ANNUAL MEAN	12.5	18.4	14.8
HIGHEST ANNUAL MEAN			21.2
LOWEST ANNUAL MEAN			6.79
HIGHEST DAILY MEAN	115	137	244
LOWEST DAILY MEAN	.06	.66	.00
ANNUAL SEVEN-DAY MINIMUM	1.5	1.6	.01
ANNUAL RUNOFF (AC-FT)	9060	13310	10700
10 PERCENT EXCEEDS	37	54	46
50 PERCENT EXCEEDS	4.4	5.6	5.2
90 PERCENT EXCEEDS	1.9	2.2	1.9

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. Elevation of gage is 5,270 ft above sea level, from topographic map.

REMARKS.--Records good. 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 transbasin diversion. Information is available for these stations from the Provo River Water Commissioner's Report.

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, 1,240 ft³/s, May 25, gage height 5.93 ft; minimum daily discharge, 88 ft³/s, Dec. 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	95	91	374	593	826	434	374	684	697	508	600
2	319	97	91	382	592	824	429	339	566	700	500	600
3	326	99	89	389	592	823	427	327	510	696	487	601
4	325	103	89	384	590	822	425	344	520	698	477	599
5	331	101	90	384	590	744	423	385	509	686	441	605
6	337	95	89	474	732	598	421	429	468	673	433	601
7	348	93	89	538	816	563	419	529	436	666	448	591
8	331	92	88	537	817	563	420	562	409	669	484	585
9	316	92	90	539	816	563	420	566	475	662	510	573
10	317	91	96	542	817	494	418	570	573	655	492	569
11	318	96	107	543	815	396	415	587	617	634	471	550
12	321	100	100	548	815	381	414	620	617	603	466	564
13	333	105	99	550	813	394	412	622	611	558	444	554
14	322	110	94	554	814	497	365	639	582	554	427	547
15	282	95	92	685	812	566	326	656	583	589	421	553
16	282	91	171	782	810	561	344	677	584	623	427	547
17	281	90	232	783	813	575	372	681	587	593	453	544
18	284	94	233	783	813	520	390	720	613	567	501	561
19	277	93	230	780	725	453	433	744	625	562	513	529
20	271	94	235	780	823	445	452	748	631	532	565	507
21	271	93	236	779	823	446	492	780	631	503	584	493
22	269	98	234	779	823	447	451	932	633	511	578	491
23	267	95	272	775	826	450	450	1110	647	510	575	481
24	269	93	320	774	825	445	438	1200	652	469	569	472
25	272	92	323	777	824	439	440	1190	655	471	559	424
26	270	94	324	790	831	438	454	1170	663	473	558	339
27	268	89	326	682	836	441	479	1070	661	473	574	329
28	151	90	326	596	831	442	512	1030	659	500	587	346
29	103	92	327	594	---	437	470	1030	652	491	601	350
30	102	90	353	593	---	436	408	937	669	486	600	350
31	95	---	372	593	---	438	---	826	---	491	599	---
TOTAL	8550	2852	5908	19063	21627	16467	12753	22394	17722	17995	15852	15455
MEAN	276	95.1	191	615	772	531	425	722	591	580	511	515
MAX	348	110	372	790	836	826	512	1200	684	700	601	605
MIN	95	89	88	374	590	381	326	327	409	469	421	329
AC-FT	16960	5660	11720	37810	42900	32660	25300	44420	35150	35690	31440	30650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1997, BY WATER YEAR (WY)

	MEAN	207	179	219	208	219	245	321	602	824	506	421	345
MAX	490	509	508	615	772	1146	1202	1200	1613	927	575	581	
(WY)	1984	1983	1983	1997	1997	1986	1986	1984	1983	1965	1986	1986	
MIN	75.6	.80	67.0	57.3	53.1	42.8	75.5	199	305	178	120	75.6	
(WY)	1962	1963	1993	1989	1981	1961	1961	1977	1977	1961	1961	1961	

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1954 - 1997

ANNUAL TOTAL	125599	176638	
ANNUAL MEAN	343	484	
HIGHEST ANNUAL MEAN			358
LOWEST ANNUAL MEAN			641
HIGHEST DAILY MEAN	1110	May 23	1986
LOWEST DAILY MEAN	83	Jan 1	1977
ANNUAL SEVEN-DAY MINIMUM	88	Jan 25	2240
ANNUAL RUNOFF (AC-FT)	249100	350400	259700
10 PERCENT EXCEEDS	653	786	610
50 PERCENT EXCEEDS	270	492	307
90 PERCENT EXCEEDS	91	98	89

JORDAN RIVER BASIN
10163000 PROVO RIVER AT PROVO, UT

223

LOCATION.--Lat 40°14'16", long 111°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. Elevation of gage is 4,510 ft above sea level, from topographic map. May 1903 to June 1905, nonrecording gages at site 0.8 mi upstream at different datums. May 1933 to September 1934, non-recording 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 fair, except for estimated days, which are poor. Station is below all diversions. At times entire flow is diverted above station for irrigation. Flow regulated by Deer Creek Reservoir, Jordanelle 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 transbasin 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,520 ft³/s, May 6, 1952, gage height, 6.37 ft, datum then in use; no flow for several periods.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,280 ft³/s, May 24, gage height, 6.43 ft; minimum daily discharge, 5.9 ft³/s, July 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	119	e140	e440	529	896	567	235	494	109	12	53
2	40	119	e140	e460	547	899	546	204	320	102	12	67
3	35	125	e140	e460	571	900	535	199	198	102	9.5	96
4	31	117	e140	e460	573	892	534	198	174	110	12	95
5	33	145	e140	e550	573	852	519	197	179	114	11	102
6	37	122	e140	e600	648	701	510	206	146	112	11	112
7	44	112	e140	e600	780	626	517	222	123	108	9.9	122
8	45	107	e140	600	781	615	534	240	111	107	20	137
9	43	107	e140	603	782	609	549	248	110	106	35	138
10	47	109	e150	598	793	583	556	245	107	107	41	131
11	49	106	e170	603	793	486	547	244	127	106	47	127
12	48	110	e160	598	786	414	542	276	133	116	61	122
13	50	116	e150	596	777	389	536	257	141	111	59	141
14	69	121	e150	583	770	471	505	259	158	100	43	167
15	118	110	e140	663	776	647	410	263	144	84	36	183
16	144	106	e230	729	778	662	354	269	142	75	43	199
17	159	105	e300	729	784	693	315	286	136	57	40	189
18	172	124	e300	731	789	663	303	344	116	29	36	223
19	185	142	e300	734	704	564	277	382	125	23	36	278
20	169	e150	e300	729	774	536	285	426	129	19	44	280
21	182	e150	e320	732	792	534	302	564	132	16	56	283
22	193	e160	e320	736	829	541	263	787	121	6.5	68	294
23	191	e150	e380	757	832	550	266	952	110	5.9	79	310
24	205	e150	e400	745	847	548	296	1080	106	11	80	315
25	219	e150	e400	774	857	524	317	1140	104	13	81	301
26	213	e140	e400	800	879	520	305	1150	114	13	85	289
27	201	e140	e400	741	920	527	307	1030	114	11	84	266
28	182	e140	e400	582	909	534	311	937	116	13	57	263
29	149	e140	e400	547	---	539	311	927	109	14	50	265
30	127	e140	e420	516	---	536	245	821	114	8.4	52	251
31	126	---	e440	509	---	562	---	682	---	10	47	---
TOTAL	3540	3832	7890	19505	21173	19013	12364	15270	4453	1918.8	1357.4	5799
MEAN	114	128	255	629	756	613	412	493	148	61.9	43.8	193
MAX	219	160	440	800	920	900	567	1150	494	116	85	315
MIN	31	105	140	440	529	389	245	197	104	5.9	9.5	53
AC-FT	7020	7600	15650	38690	42000	37710	24520	30290	8830	3810	2690	11500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1997, BY WATER YEAR (WY)

	140	208	255	246	255	277	309	318	357	49.4	21.7	50.4
MEAN	140	208	255	246	255	277	309	318	357	49.4	21.7	50.4
MAX	512	585	574	629	818	1257	1345	1396	1571	390	210	278
(WY)	1984	1983	1983	1997	1986	1986	1986	1952	1983	1965	1983	1986
MIN	10.9	25.6	39.4	24.7	35.5	40.9	24.3	2.22	2.33	.68	1.12	1.56
(WY)	1961	1963	1993	1989	1989	1961	1961	1961	1977	1946	1960	1960

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1944 - 1997

ANNUAL TOTAL	60171	116115.2	
ANNUAL MEAN	164	318	
HIGHEST ANNUAL MEAN			207
LOWEST ANNUAL MEAN			553
HIGHEST DAILY MEAN	776	May 24	1150
LOWEST DAILY MEAN	15	Jul 24	5.9
ANNUAL SEVEN-DAY MINIMUM	17	Jul 21	10
ANNUAL RUNOFF (AC-FT)	119300		230300
10 PERCENT EXCEEDS	322		772
50 PERCENT EXCEEDS	140		201
90 PERCENT EXCEEDS	26		43

e Estimated

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 power-plant 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. WRD-UT-96-1: 1995.

GAGE.--Water-stage recorder. Elevation of gage is 5,950 ft above sea level, 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.--Records fair except for estimated daily discharges, Feb. 3, 20, and 28, which are poor. 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.--70 years, 56.6 ft³/s, 41,010 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).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	25	21	21	23	16	47	140	401	143	67	e49
2	24	25	21	23	22	17	44	131	351	139	65	e49
3	23	25	20	31	22	16	42	121	309	131	65	e42
4	23	25	20	25	22	16	44	127	326	124	67	e46
5	23	28	20	22	22	16	44	142	306	122	66	e43
6	23	24	20	20	22	16	40	167	314	112	71	e39
7	23	23	20	19	22	16	40	192	306	105	86	e39
8	23	23	20	19	22	16	40	222	290	102	84	e40
9	23	23	20	19	22	16	40	240	291	100	84	e40
10	23	23	30	19	22	16	38	274	291	101	84	e37
11	23	23	29	19	20	18	38	294	304	100	82	e36
12	22	23	25	19	18	19	37	315	284	96	84	e36
13	22	23	25	e21	17	21	36	363	261	88	82	e34
14	23	23	25	e21	17	21	37	416	236	85	80	e34
15	24	23	20	e21	17	20	37	447	222	84	78	e32
16	24	23	20	22	17	20	41	458	219	87	76	e33
17	24	23	e18	22	17	22	54	507	233	88	74	32
18	24	26	e18	22	17	23	67	525	255	84	74	35
19	25	26	21	22	17	26	85	440	278	81	72	40
20	25	26	21	22	17	31	101	504	282	82	70	37
21	25	26	21	22	17	36	121	473	252	79	63	35
22	24	38	21	22	17	40	112	365	227	76	63	35
23	24	33	21	23	17	43	115	352	224	75	61	35
24	25	27	21	23	16	48	103	366	206	73	54	34
25	26	26	21	23	16	43	96	335	188	72	45	34
26	26	26	21	23	17	43	97	278	182	67	40	36
27	25	23	21	23	18	46	112	263	182	64	39	34
28	25	21	21	23	17	46	138	238	140	67	39	33
29	25	21	21	23	---	46	157	249	165	69	38	34
30	25	21	21	23	---	44	142	272	156	71	38	33
31	25	---	21	23	---	47	---	346	---	69	50	---
TOTAL	743	745	665	680	530	864	2145	9562	7681	2836	2041	1116
MEAN	24.0	24.8	21.5	21.9	18.9	27.9	71.5	308	256	91.5	65.8	37.2
MAX	26	38	30	31	23	48	157	525	401	143	86	49
MIN	22	21	18	19	16	16	36	121	140	64	38	32
AC-FT	1470	1480	1320	1350	1050	1710	4250	18970	15240	5630	4050	2210
CAL YR 1996	TOTAL 23349		MEAN 63.8		MAX 309		MIN 18		AC-FT 46310			
WTR YR 1997	TOTAL 29608		MEAN 81.1		MAX 525		MIN 16		AC-FT 58730			

e Estimated

225

e Estimated

JORDAN RIVER BASIN

10168300 TAILRACE AT STAIRS PLANT NEAR SALT LAKE CITY, UT

LOCATION.--Lat 40°37'26", long 111°45'05", in NW¹/₄SE¹/₄SW¹/₄ sec. 20, T. 2 S., R. 2 E., Salt Lake County, Hydrologic Unit 16020204 on left bank at Stairs plant, 14 mi southeast of Salt Lake City.

DRAINAGE AREA.--49.2 mi².

PERIOD OF RECORD.--January 1925 to current year. Prior to 1986, not published, records available from Utah Power & Light Co.

GAGE.--Water-stage recorder. Elevation of gage is 5,460 ft above sea level, from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--12 years, 25.5 ft³/s, 18,470 acre-ft/yr.

COOPERATION.--Records collected by Utah Power & Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78 ft³/s July 1, 1954; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	25	e26	12	20	19	42	52	50	36	49	46
2	25	24	e25	17	21	20	40	51	50	41	50	44
3	24	25	e14	32	21	19	39	48	50	48	50	44
4	25	25	e20	28	20	19	40	50	48	48	50	45
5	25	26	e13	25	20	19	40	52	54	44	50	43
6	24	25	e24	14	20	20	38	52	54	40	48	43
7	25	24	e22	13	17	20	38	52	53	40	47	43
8	25	25	e24	24	19	21	38	51	53	41	50	43
9	24	25	e27	23	19	20	34	51	53	41	50	42
10	24	25	e31	24	19	21	36	51	54	41	50	42
11	24	25	e29	22	19	23	35	51	56	42	48	26
12	23	24	e25	23	20	26	34	51	24	44	50	44
13	23	24	e26	22	20	29	32	51	1.6	44	47	43
14	24	24	e25	22	20	28	32	51	1.8	44	50	42
15	24	24	e12	21	20	26	32	50	1.6	42	50	42
16	25	24	e24	17	20	26	35	46	1.5	40	50	43
17	24	24	e14	20	20	29	44	25	1.5	39	48	43
18	24	25	e13	20	20	29	48	24	1.8	39	44	43
19	26	26	e23	20	20	32	52	41	1.3	40	43	49
20	25	26	e22	20	22	43	52	36	1.3	39	43	49
21	25	26	e22	21	19	51	52	41	1.7	41	47	46
22	25	30	e22	21	19	50	52	44	1.3	41	49	46
23	25	39	e21	21	20	47	53	45	1.3	41	49	46
24	25	e31	e22	20	19	50	50	46	1.1	41	50	45
25	26	e28	e21	21	19	49	53	42	.19	41	50	44
26	26	e27	e21	21	20	48	52	42	.18	40	50	46
27	26	e24	e22	21	20	49	52	41	.17	40	48	41
28	27	e27	e21	20	20	45	52	44	.17	41	47	38
29	27	e27	e22	20	---	44	52	48	.16	45	47	35
30	27	e25	e22	20	---	42	52	48	2.4	49	49	34
31	26	---	e23	20	---	44	---	48	---	49	48	---
TOTAL	773	779	678	645	553	1008	1301	1425	620.07	1302	1501	1280
MEAN	24.9	26.0	21.9	20.8	19.8	32.5	43.4	46.0	20.7	42.0	48.4	42.7
MAX	27	39	31	32	22	51	53	52	56	49	50	49
MIN	23	24	12	12	17	19	32	24	.16	36	43	26
AC-FT	1530	1550	1340	1280	1100	2000	2580	2830	1230	2580	2980	2540
CAL YR 1996	TOTAL 10171.10		MEAN 27.8		MAX 46		MIN .30		AC-FT 20170			
WTR YR 1997	TOTAL 11865.07		MEAN 32.5		MAX 56		MIN .16		AC-FT 23530			

e Estimated

JORDAN RIVER BASIN

227

10170500 SURPLUS CANAL AT SALT LAKE CITY, UT

LOCATION.--Lat 40°43'37", long 111°55'33", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ 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 above sea level. 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, Sept. 30, 1966 to Oct. 1, 1989 at datum 10.0 ft lower.

REMARKS.--Records fair except for estimated days which are poor. 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.--54 years, 382 ft³/s, 276,900 acre-ft/year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,410 ft³/s June 1, 1984, gage height, 8.91 ft, datum then in use. No flow Jan. 21 to Feb. 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,200 ft³/s May 24, gage height, 16.22 ft; minimum daily discharge, 106 ft³/s Nov. 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	223	168	174	564	899	1000	e1200	1500	2120	973	270	237
2	206	173	171	663	1120	1110	1020	1230	2020	921	257	276
3	219	173	151	987	1040	1210	1110	1180	1890	864	274	303
4	208	154	150	722	1010	1230	1100	1100	1970	836	378	309
5	203	384	e159	712	1040	1200	1080	1050	1970	833	419	275
6	192	180	e248	650	1060	1100	1140	1060	1920	818	368	290
7	204	149	219	643	1020	1090	1150	1040	1890	806	317	275
8	195	142	207	677	922	1090	1140	998	1840	778	285	283
9	206	137	244	677	922	1070	1200	1010	1800	751	276	259
10	198	135	e270	681	930	1100	1150	1060	2150	748	300	275
11	188	134	e537	751	947	1100	1110	1120	2330	707	521	366
12	185	131	e324	703	965	1100	1120	1210	2040	1080	460	334
13	189	115	e566	694	948	1010	1100	1320	2250	881	545	286
14	229	106	e573	730	944	1020	1110	1400	2530	777	508	264
15	225	111	e582	744	949	1020	1080	1620	2280	675	467	301
16	269	143	e480	740	950	1030	1010	2030	2060	609	393	343
17	e249	127	e350	734	966	1070	953	1960	1860	642	361	285
18	e205	120	e279	754	1200	1060	995	1890	1850	631	310	231
19	315	115	e325	763	1060	1080	978	1870	1960	535	270	643
20	212	120	e315	772	1020	1100	956	1850	1890	562	267	638
21	173	124	e295	803	985	1160	933	2140	1640	583	300	449
22	153	470	e270	809	1020	1180	948	2050	1560	586	258	411
23	153	392	e250	907	999	1200	1160	1910	1510	656	261	273
24	162	269	e260	975	978	1180	1600	2460	1300	727	286	244
25	291	199	e340	1020	967	1130	1230	2250	1270	673	269	250
26	255	169	e470	1080	1000	1220	1150	1870	1290	623	257	358
27	191	161	e606	1070	1090	1210	1080	1560	1270	602	246	303
28	169	166	544	1060	1010	1140	1190	1440	1230	617	240	266
29	178	193	537	979	---	1130	1440	1420	1200	571	236	263
30	165	176	545	872	---	1200	1240	1440	1100	338	221	263
31	163	---	556	874	---	1240	---	1720	---	312	208	---

TOTAL	6373	5336	10997	24810	27961	34780	33673	47758	53990	21715	10028	9553
MEAN	206	178	355	800	999	1122	1122	1541	1800	700	323	318
MAX	315	470	606	1080	1200	1240	1600	2460	2530	1080	545	643
MIN	153	106	150	564	899	1000	933	998	1100	312	208	231
AC-FT	12640	10580	21810	49210	55460	68990	66790	94730	107100	43070	19890	18950

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1997, BY WATER YEAR (WY)

MEAN	277	269	290	317	380	418	483	599	652	352	270	283
MAX	1473	1616	1740	1806	1804	1882	2749	3042	3299	2158	1651	1364
(WY)	1984	1984	1984	1984	1984	1984	1986	1986	1984	1983	1983	1986
MIN	66.1	68.8	49.7	30.8	.000	55.9	44.8	74.7	44.4	69.6	50.6	77.7
(WY)	1962	1944	1944	1956	1963	1945	1961	1961	1961	1961	1961	1961

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1944 - 1997

ANNUAL TOTAL	221412	286974	382
ANNUAL MEAN	605	786	1968
HIGHEST ANNUAL MEAN			69.6
LOWEST ANNUAL MEAN			4250
HIGHEST DAILY MEAN	2390	2530	Jun 1 1984
LOWEST DAILY MEAN	106	106	Nov 14
ANNUAL SEVEN-DAY MINIMUM	120	120	Nov 13
ANNUAL RUNOFF (AC-FT)	439200	569200	276900
10 PERCENT EXCEEDS	1110	1560	950
50 PERCENT EXCEEDS	537	730	197
90 PERCENT EXCEEDS	179	179	80

e Estimated

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.

PERIOD OF RECORD.--December 1942 to current year.

REVISED RECORDS.--WDR UT-88-1: 1987 (combined flow).

GAGE.--Water-stage recorder. Datum of gage is 4,220.08 ft above sea level. Prior to July 1, 1976 at site 3,200 ft upstream at same datum.

REMARKS.--Records fair except for estimated days, which are poor. 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 449 ft³/s Aug. 20, 1986, gage height, 4.41 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, 267 ft³/s June 10, gage height, 3.56 ft; minimum daily discharge, 48 ft³/s Jan. 28.

Maximum daily combined discharge during year (Jordan River and Surplus Canal), 2,730 ft³/s June 14; minimum daily discharge, 234 ft³/s Nov. 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	114	119	142	153	146	133	126	175	141	124	114
2	111	114	122	155	167	147	126	137	175	165	129	117
3	112	113	122	177	156	149	130	148	171	163	127	119
4	118	115	121	139	153	147	134	146	174	160	136	119
5	123	143	125	141	156	144	136	146	174	153	138	117
6	123	115	130	141	155	138	136	147	172	154	131	120
7	125	113	128	140	153	136	136	145	169	155	126	116
8	124	110	127	143	150	137	135	141	167	154	124	117
9	125	111	129	141	149	135	140	140	166	157	121	116
10	126	110	141	141	150	135	137	139	194	158	124	117
11	127	110	142	148	149	134	136	138	185	150	144	127
12	124	110	131	141	152	134	136	138	187	185	135	119
13	124	121	141	138	148	131	135	138	196	167	148	115
14	124	128	138	140	147	130	135	137	202	159	138	113
15	122	127	137	142	147	130	135	137	185	152	137	116
16	124	131	139	140	148	132	133	141	179	143	131	117
17	124	127	132	140	147	139	132	137	176	141	128	127
18	120	126	128	141	163	132	133	131	177	146	122	140
19	120	124	135	141	152	131	133	129	180	140	121	187
20	110	124	135	142	155	132	133	128	180	142	120	182
21	104	123	126	146	152	134	135	130	174	140	120	157
22	100	e120	124	145	152	135	136	136	171	137	115	133
23	110	108	123	113	151	138	131	143	169	141	119	150
24	116	103	123	51	149	137	111	161	162	147	120	142
25	136	120	129	50	149	132	99	140	160	143	119	137
26	132	115	133	50	149	135	85	119	160	140	118	141
27	123	113	147	51	155	134	135	143	157	138	118	133
28	121	114	145	48	148	131	136	161	154	142	115	126
29	118	117	142	94	---	130	139	159	151	138	113	122
30	114	119	141	154	---	132	135	158	145	116	112	121
31	114	---	142	155	---	140	---	165	---	111	111	---
TOTAL	3699	3538	4097	3930	4255	4217	3926	4384	5187	4578	3884	3877
MEAN	119	118	132	127	152	136	131	141	173	148	125	129
MAX	136	143	147	177	167	149	140	165	202	185	148	187
MIN	100	103	119	48	147	130	85	119	145	111	111	113
AC-FT	7340	7020	8130	7800	8440	8360	7790	8700	10290	9080	7700	7690
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1997, BY WATER YEAR (WY)												
MEAN	156	145	144	148	150	134	118	113	146	159	152	158
MAX	253	223	230	292	274	208	168	210	258	253	242	245
(WY)	1985	1986	1986	1985	1985	1954	1954	1989	1991	1984	1983	1985
MIN	78.7	64.9	75.2	54.2	66.6	58.3	31.3	25.5	56.0	68.3	68.3	63.5
(WY)	1964	1964	1993	1993	1993	1962	1986	1964	1995	1961	1963	1963
SUMMARY STATISTICS												
FOR 1996 CALENDAR YEAR				FOR 1997 WATER YEAR				WATER YEARS 1953 - 1997				
ANNUAL TOTAL				47224		49572						
ANNUAL MEAN				129		136						
HIGHEST ANNUAL MEAN								144				
LOWEST ANNUAL MEAN								223				
								92.3				
HIGHEST DAILY MEAN				179		202		Jun 14		327		
LOWEST DAILY MEAN				81		48		Jan 28		.00		
ANNUAL SEVEN-DAY MINIMUM				93		65		Jan 23		.00		
ANNUAL RUNOFF (AC-FT)				93670		98330				104000		
10 PERCENT EXCEEDS				169		160		197				
50 PERCENT EXCEEDS				124		136		143				
90 PERCENT EXCEEDS				103		114		90				

e Estimated

JORDAN RIVER BASIN

229

10170490 JORDAN RIVER AT SALT LAKE CITY, UT

Combined discharge, in cubic feet per second, of Jordan River and Surplus Canal

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	328	282	293	706	1050	1150	1330	1630	2300	1110	394	351
2	317	287	293	818	1290	1260	1150	1370	2200	1090	386	393
3	331	286	273	1160	1200	1360	1240	1330	2060	1030	401	422
4	326	269	271	861	1160	1380	1230	1250	2140	996	514	428
5	326	527	284	853	1200	1340	1220	1200	2140	986	557	392
6	315	295	378	791	1220	1240	1280	1210	2090	972	499	410
7	329	262	347	783	1170	1230	1290	1190	2060	961	443	391
8	319	252	334	820	1070	1230	1280	1140	2010	932	409	400
9	331	248	373	818	1070	1210	1340	1150	1970	908	397	375
10	324	245	411	822	1080	1240	1290	1200	2340	906	424	392
11	315	244	679	899	1100	1230	1250	1260	2520	857	665	493
12	309	241	455	844	1120	1230	1260	1350	2230	1270	595	453
13	313	236	707	832	1100	1140	1240	1460	2450	1050	693	401
14	353	234	711	870	1090	1150	1250	1540	2730	936	646	377
15	347	238	719	886	1100	1150	1220	1760	2470	827	604	417
16	393	274	619	880	1100	1160	1140	2170	2240	752	524	460
17	373	254	482	874	1110	1210	1090	2100	2040	783	489	412
18	325	246	407	895	1360	1190	1130	2020	2030	777	432	371
19	435	239	460	904	1210	1210	1110	2000	2140	675	391	830
20	322	244	450	914	1180	1230	1090	1980	2070	704	387	820
21	277	247	421	949	1140	1290	1070	2270	1810	723	420	606
22	253	590	394	954	1170	1320	1080	2190	1730	723	373	544
23	263	500	373	1020	1150	1340	1290	2050	1680	797	380	423
24	278	372	383	1030	1130	1320	1710	2620	1460	874	406	386
25	427	319	469	1070	1120	1260	1330	2390	1430	816	388	387
26	387	284	603	1130	1150	1360	1240	1990	1450	763	375	499
27	314	274	753	1120	1250	1340	1220	1700	1430	740	364	436
28	290	280	689	1110	1160	1270	1330	1600	1380	759	355	392
29	296	310	679	1070	---	1260	1580	1580	1350	709	349	385
30	279	295	686	1030	---	1330	1380	1600	1250	454	333	384
31	277	---	698	1030	---	1380	---	1890	---	423	319	---
TOTAL	10072	8874	15094	28743	32250	39010	37660	52190	59200	26303	13912	13430
MEAN	325	296	487	927	1152	1258	1255	1684	1973	848	449	448
MAX	435	590	753	1160	1360	1380	1710	2620	2730	1270	693	830
MIN	253	234	271	706	1050	1140	1070	1140	1250	423	319	351
AC-FT	19980	17600	29940	57010	63970	77380	74700	103500	117400	52170	27590	26640

JORDAN RIVER BASIN

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT
(Hydrologic bench mark station)

LOCATION.--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. Elevation of gage is 5,400 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 105 ft³/s May 28, 1983, maximum gage height, 3.81 ft May 17, 1984; minimum, 0.17 ft³/s Nov. 20, 1992, possible ice jam upstream.

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)
Mar. 23	2015	11	1.22	May 1	0100	*16	*1.59

Minimum daily discharge, 1.7 ft³/s Sept. 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.5	2.3	2.3	2.5	3.0	8.6	15	6.9	3.8	2.6	1.9
2	1.9	2.5	2.3	e2.3	2.6	2.8	8.3	14	6.8	3.7	2.6	1.9
3	1.9	2.4	e2.2	e2.2	2.5	2.8	8.3	14	6.6	3.7	2.6	2.0
4	1.9	2.5	e2.1	e2.2	2.5	2.8	8.2	14	6.4	3.6	2.8	1.9
5	1.9	2.8	2.2	e2.4	2.6	3.1	8.1	14	6.4	3.6	2.8	1.9
6	1.9	2.5	2.2	e2.6	2.6	2.9	7.9	14	6.3	3.5	2.7	1.9
7	1.9	2.5	2.1	2.8	e2.6	3.0	7.8	14	6.2	3.4	2.6	1.9
8	1.9	2.4	2.1	2.8	2.8	3.1	7.7	14	6.2	3.4	2.5	1.9
9	1.9	2.4	2.2	2.7	2.6	3.1	7.6	13	6.1	3.3	2.5	1.8
10	1.9	2.4	3.0	2.6	2.5	3.6	7.4	13	6.6	3.2	2.5	1.8
11	1.9	2.4	3.2	2.7	2.4	4.2	7.3	13	6.2	3.3	2.7	1.8
12	2.0	2.4	2.9	2.2	2.5	4.9	7.2	12	5.9	3.7	2.5	1.8
13	2.1	2.4	3.0	2.3	2.6	5.2	6.9	12	5.8	3.3	2.5	1.8
14	2.2	2.4	2.9	2.7	2.5	5.1	6.8	11	6.4	3.2	2.4	1.7
15	2.3	2.4	3.1	2.5	2.5	5.0	6.8	10	5.9	3.1	2.4	1.8
16	2.3	2.4	2.6	2.4	2.5	5.3	7.0	10	5.6	3.0	2.3	1.8
17	2.3	2.4	e2.1	2.3	2.7	6.6	7.3	9.8	5.3	3.0	2.3	1.8
18	2.3	2.5	e2.0	2.4	2.9	7.6	8.0	9.5	5.3	3.0	2.3	2.0
19	2.4	2.5	2.4	2.4	2.9	8.2	8.8	9.2	5.2	3.0	2.3	2.4
20	2.4	2.5	2.4	2.4	3.0	9.1	9.8	8.9	4.9	2.9	2.2	2.2
21	2.3	2.5	2.3	2.6	3.1	10	11	8.7	4.8	2.9	2.2	2.1
22	2.3	3.6	2.2	2.6	3.0	11	11	8.4	4.7	2.9	2.1	2.1
23	2.3	3.0	2.2	2.5	3.0	11	12	8.1	4.5	2.9	2.1	2.0
24	2.5	2.8	2.2	2.3	e2.9	11	12	9.2	4.4	2.9	2.1	2.0
25	2.6	2.6	2.2	2.3	2.8	10	11	8.8	4.4	2.8	2.1	2.0
26	2.5	2.6	2.3	2.4	3.0	9.6	11	8.8	4.2	2.7	2.0	2.2
27	2.4	2.5	2.3	2.6	3.0	9.6	11	8.1	4.1	2.7	2.0	2.1
28	2.4	2.4	2.1	2.6	2.9	9.2	12	7.8	4.0	2.8	1.9	2.0
29	2.5	2.5	2.2	2.5	---	8.9	15	7.6	4.0	2.8	1.9	2.0
30	2.5	2.6	2.2	2.5	---	8.7	15	7.3	3.8	2.7	1.9	2.0
31	2.5	---	2.3	2.5	---	8.8	---	7.1	---	2.7	1.9	---
TOTAL	68.0	76.3	73.8	76.6	76.0	199.2	276.8	334.3	163.9	97.5	72.3	58.5
MEAN	2.19	2.54	2.38	2.47	2.71	6.43	9.23	10.8	5.46	3.15	2.33	1.95
MAX	2.6	3.6	3.2	2.8	3.1	11	15	15	6.9	3.8	2.8	2.4
MIN	1.9	2.4	2.0	2.2	2.4	2.8	6.8	7.1	3.8	2.7	1.9	1.7
AC-FT	135	151	146	152	151	395	549	663	325	193	143	116

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1997, BY WATER YEAR (WY)

	1964	1964	1964	1971	1986	1983	1986	1983	1983	1983	1983	1983
MEAN	1.96	2.02	1.94	1.96	2.40	4.61	9.29	13.2	6.88	3.38	2.19	1.85
MAX	3.86	3.53	3.37	3.46	7.00	12.8	22.2	50.5	29.7	9.22	5.77	4.10
(WY)	1984	1984	1984	1971	1986	1983	1986	1983	1983	1983	1983	1983
MIN	.68	.93	.91	.83	1.00	1.06	1.79	1.55	.95	.60	.44	.47
(WY)	1991	1991	1964	1964	1964	1964	1990	1990	1992	1990	1990	1990

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1964 - 1997

ANNUAL TOTAL	1880.9	1573.2	4.31
ANNUAL MEAN	5.14	4.31	
HIGHEST ANNUAL MEAN			12.5 1983
LOWEST ANNUAL MEAN			1.12 1990
HIGHEST DAILY MEAN	21 Apr 10	15 Apr 29	95 May 28 1983
LOWEST DAILY MEAN	1.7 Sep 9	1.7 Sep 14	.38 Aug 9 1990
ANNUAL SEVEN-DAY MINIMUM	1.8 Sep 7	1.8 Sep 9	.39 Sep 10 1990
ANNUAL RUNOFF (AC-FT)	3730	3120	3120
10 PERCENT EXCEEDS	14	9.3	9.9
50 PERCENT EXCEEDS	2.6	2.7	2.4
90 PERCENT EXCEEDS	2.0	2.0	1.1

e Estimated

RUSH VALLEY

231

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. Elevation of gage is 6,200 ft above sea level, from AMS topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 825 ft³/s Aug. 27, 1972, gage height, 5.70 ft, based on slope-area measurement; minimum daily, 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)
Mar. 26	2000	13	1.24	Sep. 7	0300	16	1.30
Jun. 15	1730	*18	*1.33				

Minimum daily discharge, 2.1 ft³/s Oct. 1-15, Dec. 17, 18, and Jan. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.3	2.5	2.5	2.5	e2.4	5.9	8.0	5.1	4.7	3.0	2.9
2	2.1	2.3	2.5	2.6	2.5	2.7	5.5	7.2	5.3	4.3	3.0	2.9
3	2.1	2.2	2.5	3.1	2.5	2.9	6.4	6.9	5.2	4.3	3.0	2.9
4	2.1	2.3	3.2	2.7	2.5	2.9	6.3	6.5	5.1	4.3	3.3	3.0
5	2.1	2.5	2.5	2.7	2.5	e2.7	5.5	6.5	5.3	4.2	3.2	3.0
6	2.1	2.3	2.5	2.6	2.5	2.9	5.3	6.7	5.2	4.0	3.2	3.0
7	2.1	2.3	2.4	e2.4	e2.3	2.9	5.4	6.9	5.3	4.0	3.2	4.2
8	2.1	2.2	2.5	2.5	e2.4	3.0	5.4	7.2	5.3	4.0	2.8	3.0
9	2.1	2.2	2.7	2.5	e2.4	3.2	5.6	7.2	6.0	4.0	2.9	3.0
10	2.1	2.2	3.3	2.5	2.5	3.2	5.5	6.9	5.6	3.9	3.0	3.0
11	2.1	2.2	3.1	2.5	2.5	3.5	5.2	6.8	5.2	4.0	3.0	3.0
12	2.1	2.2	2.9	2.6	2.5	3.7	5.2	6.8	5.1	4.1	3.0	3.1
13	2.1	2.2	2.7	2.8	2.5	3.8	5.0	6.7	5.1	4.0	3.0	3.0
14	2.1	2.2	2.7	2.5	2.5	3.7	5.1	6.5	5.8	3.7	3.0	2.9
15	2.1	2.3	2.5	2.5	2.5	3.9	5.2	6.5	6.7	3.5	3.0	3.1
16	2.2	2.3	2.5	e2.3	2.5	4.2	5.2	6.2	5.5	3.5	2.8	3.1
17	2.2	2.3	e2.1	e2.3	2.5	4.3	5.6	6.1	5.1	3.5	3.0	3.0
18	2.2	2.5	e2.1	2.5	2.5	4.5	5.9	6.0	5.0	3.5	2.8	3.5
19	2.3	2.5	2.4	2.5	2.5	4.8	5.8	5.9	5.0	3.5	2.8	4.6
20	2.2	2.4	2.2	2.5	2.5	5.0	6.5	5.9	5.1	3.5	2.8	3.4
21	2.2	2.3	2.2	2.5	2.5	5.5	6.9	5.8	5.0	3.5	2.7	3.4
22	2.2	3.6	2.3	2.5	2.5	5.5	6.8	5.7	4.9	3.4	2.7	3.4
23	2.2	2.7	2.2	2.7	2.5	6.0	7.4	5.6	4.9	3.3	2.7	3.4
24	2.3	2.5	2.2	2.8	e2.4	6.2	7.7	5.9	4.9	3.3	2.7	3.3
25	2.3	2.5	2.2	2.1	e2.4	5.7	7.1	5.9	4.9	3.2	2.8	3.3
26	2.3	2.5	2.3	2.7	2.5	7.3	6.8	5.8	4.8	3.2	2.8	3.4
27	2.3	2.4	2.3	2.5	2.6	9.0	7.1	5.6	4.9	3.3	2.7	3.3
28	2.3	2.5	2.2	2.5	2.5	7.5	7.3	5.5	5.0	3.4	2.8	3.4
29	2.3	2.5	2.3	2.5	---	6.1	7.6	5.3	4.9	3.4	2.8	3.3
30	2.3	2.5	2.3	2.5	---	6.9	7.5	5.2	4.9	3.3	2.8	3.3
31	2.3	---	2.4	2.5	---	7.1	---	5.2	---	3.0	2.9	---
TOTAL	67.6	71.9	76.7	78.9	69.5	143.0	183.7	194.9	156.1	114.8	90.2	97.1
MEAN	2.18	2.40	2.47	2.55	2.48	4.61	6.12	6.29	5.20	3.70	2.91	3.24
MAX	2.3	3.6	3.3	3.1	2.6	9.0	7.7	8.0	6.7	4.7	3.3	4.6
MIN	2.1	2.2	2.1	2.1	2.3	2.4	5.0	5.2	4.8	3.0	2.7	2.9
AC-FT	134	143	152	156	138	284	364	387	310	228	179	193

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1997, BY WATER YEAR (WY)

MEAN	3.05	2.98	2.88	2.85	2.93	3.39	5.59	6.67	4.22	3.33	3.04	3.00
MAX	9.08	8.89	7.93	7.92	7.65	9.30	21.6	40.0	19.3	12.3	10.1	9.61
(WY)	1984	1985	1985	1985	1985	1985	1983	1983	1983	1983	1983	1983
MIN	1.06	1.20	1.23	1.08	1.32	1.42	1.42	1.20	1.20	1.05	1.01	1.11
(WY)	1960	1960	1960	1961	1961	1961	1961	1961	1961	1961	1961	1959

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1959 - 1997

ANNUAL TOTAL	914.5	1344.4	
ANNUAL MEAN	2.50	3.68	
HIGHEST ANNUAL MEAN			3.66
LOWEST ANNUAL MEAN			12.0
HIGHEST DAILY MEAN	3.6	Jun 12	1.26
LOWEST DAILY MEAN	1.8	Aug 19	70
ANNUAL SEVEN-DAY MINIMUM	1.8	Aug 19	.84
ANNUAL RUNOFF (AC-FT)	1810	2670	.93
10 PERCENT EXCEEDS	3.0	6.1	7.3
50 PERCENT EXCEEDS	2.5	3.0	2.5
90 PERCENT EXCEEDS	2.0	2.2	1.4

e Estimated

TOOELE RIVER BASIN
10172727 FAUST CREEK NEAR VERNON, UT

LOCATION.--Lat 40°09'38", long 112°25'49", in NE¹/₄SE¹/₄SW¹/₄ sec. 32, T. 7 S., R. 5 W., Tooele County, Hydrologic Unit 16020304, on left bank 30 ft west of State Highway 36, approximately 1 mi south of Faust, and 4.5 mi north of Vernon.

DRAINAGE AREA.--145 mi².

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records good Oct. 1 to June 8, poor, June 9 to Sep. 30, due to highly unstable control. Estimated days are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22 ft³/s Mar. 10, 1993, gage height, 5.96 ft, maximum gage height, 6.08 ft, Nov. 2, 1992 (backwater from aquatic growth); minimum daily discharge, 0.4 ft³/s July 15, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15.4 ft³/s Oct. 7, gage height, 6.01 ft; minimum daily discharge, 0.55 ft³/s several days in June and July.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.2	1.3	1.6	2.1	2.1	2.0	2.3	.98	e.55	2.6	1.3
2	2.1	2.0	1.4	1.8	2.3	2.3	2.1	2.4	.98	e.60	1.6	1.3
3	2.5	2.1	1.3	2.8	1.9	2.2	2.2	2.2	.97	e.55	1.1	1.4
4	2.3	1.8	1.8	1.5	1.8	2.1	2.1	2.0	.97	e.55	1.1	1.3
5	1.9	2.4	1.4	1.4	1.8	2.2	2.2	1.9	.98	e.55	1.0	3.2
6	4.2	2.2	1.4	1.6	1.7	2.3	2.1	1.8	1.0	e.55	.89	3.5
7	5.0	2.0	1.4	1.2	1.7	2.2	2.1	1.6	1.0	e.55	1.3	3.4
8	2.8	1.9	1.5	1.3	1.7	2.2	2.1	1.6	.78	e.55	2.8	3.6
9	2.1	1.9	2.3	1.3	1.7	2.1	2.5	1.5	.96	e.55	3.4	4.3
10	2.1	1.9	2.5	1.4	1.7	2.1	2.4	1.5	.75	e.55	2.8	4.4
11	1.9	1.9	3.1	1.4	1.8	2.1	2.1	1.5	e.75	e.55	2.6	2.9
12	3.9	1.8	2.0	e1.2	1.7	2.0	2.1	1.4	e.75	e.85	1.2	3.6
13	4.9	1.8	1.6	e1.2	1.8	2.0	2.0	1.3	e.85	e.75	1.2	3.6
14	2.7	1.8	1.4	e1.2	1.9	2.0	2.0	1.3	e.99	e.60	1.4	3.3
15	2.5	1.8	1.3	e1.2	1.9	2.0	2.0	1.4	e.70	e.60	2.4	1.9
16	2.4	1.7	1.4	e1.2	1.9	2.0	2.0	1.3	e.60	e.60	2.6	1.5
17	2.3	1.7	1.2	e1.3	2.0	2.0	1.9	1.2	e.60	e.75	2.0	1.4
18	2.2	1.9	1.2	e1.3	2.1	1.8	1.9	1.2	e.70	e.95	1.3	1.4
19	2.3	1.6	1.2	e1.3	1.9	1.7	1.8	1.1	e.65	1.6	1.1	3.7
20	2.2	1.5	1.2	e1.3	2.0	1.6	1.8	1.1	e.60	1.0	1.8	2.5
21	2.2	1.5	1.2	1.4	1.9	1.4	1.9	1.1	e.55	e.85	1.9	1.7
22	2.1	2.1	1.2	1.5	1.9	1.3	2.1	1.1	e.55	1.4	2.4	1.5
23	2.1	1.7	1.2	1.6	1.9	1.3	2.1	1.0	e.55	2.5	3.9	1.4
24	2.3	1.5	1.3	1.6	1.9	1.2	2.2	1.2	e.55	1.4	2.2	1.3
25	2.4	1.5	1.3	1.7	1.9	1.2	2.0	1.2	e.60	2.0	1.5	1.3
26	2.3	1.5	1.5	2.1	2.0	1.2	1.8	1.2	e.55	2.2	1.8	1.6
27	2.2	1.4	1.5	2.2	2.1	1.2	1.8	1.1	e.55	1.0	1.6	1.3
28	2.2	1.4	1.5	2.0	2.0	1.0	1.9	1.0	e.55	.84	2.4	1.3
29	2.2	1.4	1.5	2.2	---	.98	1.9	1.1	e.55	.73	3.1	1.3
30	2.1	1.4	1.5	2.0	---	.98	1.9	1.0	e.55	1.4	3.3	1.3
31	2.5	---	1.6	2.0	---	1.5	---	1.0	---	2.4	1.8	---
TOTAL	78.9	53.3	47.2	48.8	53.0	54.26	61.0	43.6	22.11	30.52	62.09	67.5
MEAN	2.55	1.78	1.52	1.57	1.89	1.75	2.03	1.41	.74	.98	2.00	2.25
MAX	5.0	2.4	3.1	2.8	2.3	2.3	2.5	2.4	1.0	2.5	3.9	4.4
MIN	1.9	1.4	1.2	1.2	1.7	.98	1.8	1.0	.55	.55	.89	1.3
AC-FT	156	106	94	97	105	108	121	86	44	61	123	134

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1997, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997
MEAN	1.78	2.01	1.38	1.30	1.92	3.45
MAX	2.55	5.19	2.20	1.89	2.49	10.6
(WY)	1997	1995	1995	1995	1992	1993
MIN	.90	.80	.80	.93	.89	1.41
(WY)	1994	1994	1994	1992	1994	1995

SUMMARY STATISTICS

	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1992 - 1997
ANNUAL TOTAL	1160.71	622.28	
ANNUAL MEAN	3.17	1.70	
HIGHEST ANNUAL MEAN			2.37
LOWEST ANNUAL MEAN			3.13
HIGHEST DAILY MEAN	15 May 28	5.0 Oct 7	1.22 1996
LOWEST DAILY MEAN	.94 Mar 23	.55 Jun 21	19 Nov 23 1994
ANNUAL SEVEN-DAY MINIMUM	1.1 Jan 17	.55 Jul 3	.08 Sep 3 1992
ANNUAL RUNOFF (AC-FT)	2300	1230	.10 Aug 28 1992
10 PERCENT EXCEEDS	6.6	2.4	5.3
50 PERCENT EXCEEDS	2.3	1.7	1.7
90 PERCENT EXCEEDS	1.2	.77	.62

e Estimated

TOOELE RIVER BASIN

233

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. 5 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 current year.

GAGE.--Water-stage recorder and sharp crested weir. Elevation of gage is 5,660 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47 ft³/s June 6, 1995, gage height, 2.26 ft; minimum daily discharge, 0.74 ft³/s Jan. 5, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29 ft³/s May 16, gage height, 1.98 ft; minimum daily discharge, 2.3 ft³/s several days in Dec. and Jan.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	2.7	2.5	2.3	2.4	2.6	6.8	11	21	13	7.8	5.5
2	3.1	2.6	2.5	2.3	2.6	2.6	6.5	9.2	19	12	7.8	5.6
3	3.1	2.5	2.5	3.7	2.7	2.6	6.0	8.2	17	12	7.7	5.6
4	3.0	2.5	2.5	2.3	2.7	2.6	6.0	8.5	18	12	7.8	5.5
5	2.9	2.7	2.5	2.9	2.5	2.6	6.0	12	17	12	7.5	5.3
6	2.9	2.7	2.5	2.7	2.5	2.6	5.5	16	16	11	7.5	5.3
7	2.9	2.7	2.5	2.6	2.5	2.6	5.2	18	16	11	7.5	5.3
8	2.9	2.6	2.5	2.5	2.5	2.7	5.0	17	15	11	7.4	5.3
9	2.9	2.5	2.5	2.5	2.5	2.9	5.0	17	17	11	7.2	5.2
10	2.9	2.5	2.6	2.5	2.5	3.3	4.9	17	17	11	7.2	5.1
11	2.9	2.5	2.8	2.4	2.5	4.0	4.7	18	18	11	7.1	5.1
12	2.9	2.5	2.6	2.3	2.5	6.8	4.5	19	17	10	7.0	5.0
13	2.9	2.5	2.7	2.3	2.5	9.1	4.3	21	17	10	6.9	5.0
14	2.9	2.5	2.7	2.3	2.5	8.1	4.2	22	21	9.8	6.9	5.0
15	2.9	2.5	2.7	2.4	2.5	7.5	4.1	27	21	9.6	6.8	4.9
16	2.9	2.5	2.5	2.4	2.5	7.5	4.6	28	19	9.6	6.6	4.9
17	2.9	2.5	2.4	2.3	2.8	7.1	7.5	27	18	9.3	6.6	4.8
18	2.9	2.5	2.4	2.3	2.7	8.0	11	26	17	9.3	6.6	4.8
19	2.9	2.5	2.4	2.3	2.6	9.6	13	25	17	9.3	6.5	4.9
20	2.9	2.5	2.4	2.3	2.6	12	11	23	17	9.2	6.4	4.8
21	2.9	2.5	2.5	2.3	2.6	13	13	23	16	9.0	6.2	4.8
22	2.9	3.4	2.5	2.3	2.6	12	11	22	15	9.0	6.1	4.8
23	2.7	3.3	2.5	2.3	2.6	13	10	22	15	9.0	6.1	4.7
24	2.8	2.9	2.5	2.3	2.6	14	9.8	22	14	8.7	6.1	4.6
25	2.9	2.7	2.4	2.4	2.6	9.6	8.7	19	14	8.6	6.1	4.6
26	2.8	2.7	2.4	2.5	2.6	8.3	8.4	16	14	8.4	6.0	4.6
27	2.9	2.6	2.3	2.5	2.6	9.6	9.9	14	13	8.4	5.8	4.6
28	2.6	2.5	2.3	2.5	2.6	8.6	13	14	13	8.4	5.8	4.6
29	2.7	2.5	2.3	2.5	---	7.4	13	15	13	8.2	5.8	4.6
30	2.7	2.5	2.3	2.5	---	6.8	12	16	13	8.1	5.7	4.5
31	2.7	---	2.3	2.5	---	7.0	---	19	---	8.0	5.5	---
TOTAL	89.3	78.6	77.0	77.1	71.9	216.1	234.6	571.9	495	306.9	208.0	149.3
MEAN	2.88	2.62	2.48	2.49	2.57	6.97	7.82	18.4	16.5	9.90	6.71	4.98
MAX	3.1	3.4	2.8	3.7	2.8	14	13	28	21	13	7.8	5.6
MIN	2.6	2.5	2.3	2.3	2.4	2.6	4.1	8.2	13	8.0	5.5	4.5
AC-FT	177	156	153	153	143	429	465	1130	982	609	413	296

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1997, BY WATER YEAR (WY)

	MEAN	2.51	2.13	1.79	1.69	1.90	3.46	5.23	9.73	9.75	6.04	4.27	3.22
MAX	5.21	3.78	3.08	2.93	3.65	7.47	10.9	19.9	26.6	15.9	10.7	7.63	
(WY)	1996	1996	1987	1996	1986	1986	1986	1993	1995	1995	1995	1995	1995
MIN	1.00	1.02	.82	.84	.86	.90	1.83	1.89	2.28	1.64	1.32	1.04	
(WY)	1991	1993	1993	1993	1991	1991	1990	1990	1992	1990	1990	1990	1990

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1986 - 1997

ANNUAL TOTAL	1855.8	2575.7	
ANNUAL MEAN	5.07	7.06	
HIGHEST ANNUAL MEAN			4.32
LOWEST ANNUAL MEAN			8.25
HIGHEST DAILY MEAN	17	May 16	44
LOWEST DAILY MEAN	2.3	Dec 27	.74
ANNUAL SEVEN-DAY MINIMUM	2.3	Dec 25	.78
ANNUAL RUNOFF (AC-FT)	3680	5110	3130
10 PERCENT EXCEEDS	10	17	9.7
50 PERCENT EXCEEDS	3.6	4.9	2.7
90 PERCENT EXCEEDS	2.5	2.5	1.1

e Estimated

TOOELE RIVER BASIN

10172791 SETTLEMENT CREEK ABOVE RESERVOIR NEAR TOOELE, UT

LOCATION.--Lat 40°30'20", long 112°17'23", in SE¹/₄NW¹/₄NW¹/₄, sec. 3, T. 4 S., R. 4 W., Tooele County, Hydrologic Unit 16020304, on right bank 0.2 mi upstream from road crossing at upstream end of reservoir.

DRAINAGE AREA.--16.8 mi².

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,380 ft above sea level, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67 ft³/s June 15, 1995, gage height, 4.41 ft, maximum gage height, 4.61 ft June 5, 1995; minimum discharge, 0.13 ft³/s Aug. 19, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 ft³/s May 24, gage height, 3.91 ft, minimum daily discharge, 0.59 ft³/s Dec. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.4	1.5	.65	.93	.93	2.1	3.0	13	5.3	2.2	1.6
2	1.5	1.4	1.4	.73	.93	1.0	2.1	3.2	13	5.0	2.2	1.6
3	1.5	1.3	1.5	.80	.93	1.0	2.1	3.3	14	4.7	2.1	1.7
4	1.6	1.3	1.5	.74	.93	1.0	2.1	3.7	15	4.6	2.3	1.6
5	1.6	1.4	1.6	.74	.96	1.0	2.3	4.2	15	4.4	2.1	1.6
6	1.7	1.4	1.5	.74	.94	1.1	2.3	4.6	15	4.1	2.1	1.6
7	1.7	1.4	1.5	.74	.99	1.1	2.3	4.7	15	4.0	2.0	2.0
8	1.9	1.4	1.5	.72	1.0	1.1	2.3	5.0	15	3.9	2.0	1.6
9	1.6	1.4	1.6	.74	1.0	1.1	2.5	5.2	14	3.7	2.0	1.5
10	1.5	1.4	1.6	.78	1.0	1.1	2.5	5.5	14	3.6	2.6	1.4
11	1.7	1.4	1.4	.83	1.0	1.2	2.3	6.2	13	3.6	2.6	1.4
12	1.6	1.4	1.1	.83	1.1	1.2	2.3	7.3	12	3.8	2.4	1.4
13	1.6	1.4	.94	.83	1.1	1.0	2.3	8.9	12	3.5	2.3	1.3
14	1.5	1.4	.80	.83	1.0	1.0	2.2	11	12	3.4	2.2	1.2
15	1.5	1.3	.73	.83	1.0	1.1	2.2	14	11	3.3	2.1	1.4
16	1.6	1.3	.65	.83	1.0	1.2	2.2	17	10	3.2	2.2	1.4
17	1.5	1.3	.65	.83	1.0	1.2	2.2	19	9.8	3.1	2.3	1.3
18	1.5	1.3	.65	.83	1.1	1.2	2.2	21	8.6	3.1	2.2	1.3
19	1.7	1.3	.65	.83	1.0	1.2	2.2	22	8.3	2.8	2.2	1.6
20	1.6	1.3	.59	.83	1.0	1.3	2.1	22	8.0	2.7	2.1	1.4
21	1.4	1.3	.64	.91	1.0	1.3	2.2	24	7.7	2.7	2.0	1.4
22	1.4	1.7	.65	.93	1.0	1.3	2.1	24	7.4	2.6	1.9	1.4
23	1.4	1.5	.65	.93	.96	1.4	2.3	24	7.4	2.9	1.9	1.3
24	1.4	1.5	.65	.93	.93	1.4	2.4	24	7.2	2.8	1.9	1.3
25	1.4	1.5	.65	.93	.94	1.4	2.3	20	6.9	2.6	1.9	1.3
26	1.4	1.5	.65	.93	.93	1.5	2.3	18	6.5	2.5	1.9	1.3
27	1.4	1.5	.65	.93	1.0	1.5	2.3	17	6.3	2.4	1.9	1.3
28	1.4	1.5	.65	.93	.99	1.6	2.3	15	6.0	2.5	1.8	1.3
29	1.4	1.6	.65	.93	---	1.7	2.5	14	5.7	2.4	1.8	1.3
30	1.4	1.5	.65	.93	---	1.8	2.5	14	5.4	2.4	1.7	1.3
31	1.4	---	.65	.93	---	1.9	---	13	---	2.3	1.7	---
TOTAL	47.3	42.3	30.50	25.89	27.66	38.83	68.0	397.8	314.2	103.9	64.6	43.1
MEAN	1.53	1.41	.98	.84	.99	1.25	2.27	12.8	10.5	3.35	2.08	1.44
MAX	1.9	1.7	1.6	.93	1.1	1.9	2.5	24	15	5.3	2.6	2.0
MIN	1.4	1.3	.59	.65	.93	.93	2.1	3.0	5.4	2.3	1.7	1.2
AC-FT	94	84	60	51	55	77	135	789	623	206	128	85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1997, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997
MEAN	1.24	1.06	.87	.78	.79	.94	1.33	7.43	9.98
MAX	2.49	2.03	1.78	1.67	1.46	1.61	2.27	15.6	31.9
(WY)	1996	1996	1996	1996	1996	1996	1997	1993	1995
MIN	.73	.62	.47	.45	.49	.62	.68	2.15	1.93
(WY)	1991	1993	1993	1993	1993	1991	1991	1990	1992

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1989 - 1997

ANNUAL TOTAL	1073.70	1204.08	
ANNUAL MEAN	2.93	3.30	
HIGHEST ANNUAL MEAN			2.64
LOWEST ANNUAL MEAN			6.12
HIGHEST DAILY MEAN	15 May 19	24 May 21	1995
LOWEST DAILY MEAN	.59 Dec 20	.59 Dec 20	1992
ANNUAL SEVEN-DAY MINIMUM	.64 Dec 16	.64 Dec 16	1.05
ANNUAL RUNOFF (AC-FT)	2130	2390	59 Jun 16 1995
10 PERCENT EXCEEDS	8.0	8.7	.21 Sep 27 1991
50 PERCENT EXCEEDS	1.7	1.6	.24 Jan 28 1992
90 PERCENT EXCEEDS	1.4	.83	

TOOELE RIVER BASIN

235

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.--WDR UT-83-1: 1982.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,360 ft above sea level, from topographic map. Prior to July 23, 1963, crest-stage gage only, at site 1.4 mi upstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92 ft³/s June 8, 1964, gage height, 2.27 ft; minimum daily discharge, 1.4 ft³/s Jan. 5, 1993.

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 18	1200	*56	*1.80	June 16	0100	54	1.79

Minimum discharge, 2.4 ft³/s March 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997.
DAILY MEAN VALUES

DAY	OCTNOV	DECJAN	FEBMAR	APRMAY	JUNJUL	AUGSEP						
1	e3.9	3.3	3.0	3.0	2.8	3.0	6.9	19	35	19	9.0	5.6
2	e3.9	3.3	3.0	4.1	2.8	2.6	6.5	19	36	17	8.3	5.6
3	e3.9	3.3	3.0	5.0	2.8	2.7	6.4	17	34	16	8.3	5.6
4	3.9	3.3	3.0	4.3	2.8	2.6	6.0	15	34	16	8.4	5.6
5	3.9	3.3	3.0	4.2	2.8	2.6	5.8	14	34	15	8.1	5.6
6	3.9	3.3	3.0	4.2	2.8	2.6	5.6	15	31	14	7.6	5.6
7	3.9	3.3	2.9	4.2	2.8	2.6	5.3	16	28	14	7.3	5.7
8	3.9	3.3	2.8	4.2	2.8	2.5	5.2	16	29	13	7.3	5.6
9	3.9	3.3	2.9	4.1	2.8	2.6	5.2	17	30	13	7.3	5.6
10	3.9	3.3	3.4	4.1	2.8	2.6	4.8	16	33	13	7.3	5.6
11	3.8	3.3	3.2	4.0	2.8	3.0	4.7	21	36	13	7.3	5.5
12	3.6	3.3	3.0	3.7	2.8	3.5	4.5	25	34	13	7.0	5.2
13	3.6	3.1	3.0	3.3	2.8	3.9	4.3	23	34	13	6.8	5.2
14	3.6	3.0	3.0	3.2	2.8	3.7	4.2	24	42	12	6.8	5.2
15	3.6	3.0	3.0	3.0	2.8	3.9	4.2	21	43	12	6.8	5.2
16	3.6	3.0	3.0	3.0	2.8	4.1	4.2	21	48	11	6.8	5.2
17	3.6	3.0	3.0	3.0	2.8	4.4	4.4	23	45	11	6.6	5.2
18	3.6	3.1	3.0	2.8	2.8	4.6	5.3	47	44	11	6.4	5.2
19	3.6	3.0	2.9	2.8	2.8	4.9	6.6	35	43	11	6.4	5.2
20	3.6	3.0	2.8	2.9	2.8	5.6	9.1	32	41	10	6.4	5.2
21	3.6	2.9	2.8	3.0	2.8	6.1	11	31	38	10	6.4	5.2
22	3.6	3.6	2.8	3.0	2.9	7.1	11	29	32	10	6.4	5.2
23	3.6	3.3	2.8	3.1	2.8	8.4	12	32	27	10	6.2	5.2
24	3.6	3.3	2.8	2.9	2.8	9.4	11	34	27	10	6.0	5.2
25	3.7	3.3	2.8	3.0	2.8	9.4	10	31	26	10	6.0	5.2
26	3.6	3.3	3.0	2.8	2.9	9.4	10	28	25	10	6.0	5.2
27	3.6	3.3	2.8	2.8	3.0	9.3	11	23	24	10	5.8	5.2
28	3.3	3.1	2.8	2.8	3.0	8.7	12	20	24	10	5.6	5.2
29	3.3	3.0	2.8	2.8	---	8.0	18	19	23	9.9	5.6	5.0
30	3.3	3.0	2.8	2.8	---	7.6	19	20	21	9.4	5.6	4.8
31	3.3	---	2.8	2.8	---	7.3	---	26	---	9.4	5.6	---
TOTAL	113.7	95.9	90.9	104.9	79.0	158.7	234.2	729	1001	375.7	211.4	159.8
MEAN	3.67	3.20	2.93	3.38	2.82	5.12	7.81	23.5	33.4	12.1	6.82	5.33
MAX	3.9	3.6	3.4	5.0	3.0	9.4	19	47	48	19	9.0	5.7
MIN	3.3	2.9	2.8	2.8	2.8	2.5	4.2	14	21	9.4	5.6	4.8
AC-FT	226	190	180	208	157	315	465	1450	1990	745	419	317
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1997, BY WATER YEAR (WY)												
MEAN	3.61	3.34	3.00	2.93	2.92	3.66	6.47	16.3	19.5	9.71	5.24	4.17
MAX	7.59	6.57	5.79	5.61	5.84	7.13	12.0	40.1	46.0	24.6	12.6	9.54
(WY)	1984	1985	1985	1984	1984	1986	1986	1984	1984	1984	1984	1982
MIN	1.71	1.70	1.64	1.50	1.54	1.53	2.42	4.38	4.00	2.55	1.91	1.71
(WY)	1991	1991	1991	1991	1991	1991	1967	1977	1992	1992	1992	1992
SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1964 - 1997												
ANNUAL TOTAL				2676.2		3354.2						
ANNUAL MEAN				7.31		9.19				6.75		
HIGHEST ANNUAL MEAN										14.9	1984	
LOWEST ANNUAL MEAN										3.03	1977	
HIGHEST DAILY MEAN				34	Jun 6	48	Jun 16			84	Jun 1 1984	
LOWEST DAILY MEAN				2.8	Mar 14	2.5	Mar 8			1.4	Jan 5 1993	
ANNUAL SEVEN-DAY MINIMUM				2.8	Dec 19	2.6	Mar 4			1.5	Dec 24 1990	
ANNUAL RUNOFF (AC-FT)				5310		6650				4890		
10 PERCENT EXCEEDS				17		25				15		
50 PERCENT EXCEEDS				4.2		5.2				3.8		
90 PERCENT EXCEEDS				3.0		2.8				2.2		

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 NW¹/₄NW¹/₄NW¹/₄ 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. Elevation of gage is 6,250 ft above sea level, from topographic map. Prior to Aug. 26, 1982 at site 110 ft downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversion for flood-flows, located approximately 300 ft upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 150 ft³/s May 28, 1983; minimum discharge, 0.14 ft³/s Mar. 17, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 71 ft³/s May 19, gage height, 2.61 ft; minimum daily discharge, 0.82 ft³/s Nov. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.7	0.14	0.18	0.15	0.14	5.5	12	44	4.3	4.8	2.3
2	1.6	2.7	0.15	0.19	0.15	0.13	5.4	11	40	4.2	4.5	2.8
3	1.6	2.7	0.13	0.17	0.14	0.14	5.7	11	33	4.1	4.5	3.1
4	1.6	2.7	0.12	0.15	0.14	0.14	5.6	12	38	4.9	5.3	2.6
5	1.7	2.6	0.12	0.14	0.14	0.13	5.1	13	39	9.0	4.9	2.5
6	1.7	2.7	0.15	0.13	0.12	0.13	5.0	17	33	10	4.5	2.4
7	1.9	2.5	0.14	0.13	0.11	0.13	4.8	19	32	9.6	4.5	2.3
8	2.0	2.5	0.15	0.14	0.11	0.12	4.6	21	33	9.3	4.3	2.3
9	2.0	2.6	0.16	0.15	0.11	0.12	4.2	25	31	9.1	4.2	2.2
10	2.0	2.7	0.17	0.15	0.11	0.12	3.8	27	30	9.3	4.1	2.3
11	2.1	2.7	0.16	0.15	0.12	0.12	3.4	29	28	9.3	4.3	2.2
12	2.1	2.7	0.16	0.13	0.13	0.11	3.2	34	30	11	4.3	2.2
13	2.1	2.7	0.16	0.11	0.13	1.1	3.3	42	32	8.8	3.9	2.2
14	2.3	2.7	0.15	0.12	0.14	.98	3.4	46	25	8.2	3.7	2.2
15	2.4	2.8	0.13	0.12	0.15	.98	4.0	53	16	7.7	3.5	2.0
16	2.3	4.3	0.14	0.12	0.14	1.3	4.7	58	16	7.5	3.3	2.0
17	2.2	3.6	0.11	0.12	0.14	2.6	5.3	53	17	7.4	3.3	2.0
18	2.4	3.6	0.11	0.12	0.15	3.1	5.9	56	18	7.2	3.2	2.1
19	2.4	1.9	0.11	0.13	0.15	4.2	6.9	67	16	7.1	3.1	2.1
20	2.3	1.5	0.13	0.13	0.14	5.4	9.5	65	14	6.9	2.8	3.0
21	2.2	.99	0.14	0.14	0.14	6.2	11	61	9.8	6.8	2.8	3.8
22	2.1	2.2	0.15	0.15	0.13	6.7	11	61	9.4	6.6	2.8	2.6
23	2.2	1.2	0.15	0.14	0.14	7.8	11	60	8.1	6.9	2.7	2.3
24	2.6	.86	0.14	0.12	0.14	7.6	11	60	5.9	6.6	2.8	2.2
25	2.6	.82	0.15	0.11	0.13	6.6	10	51	5.2	6.4	2.6	2.1
26	3.0	0.15	0.15	0.12	0.13	7.2	11	44	5.6	6.0	2.5	2.2
27	3.4	0.14	0.16	0.15	0.14	7.1	11	35	6.6	6.0	2.4	2.1
28	3.1	0.14	0.16	0.13	0.14	6.3	12	30	6.7	5.9	2.4	2.1
29	3.2	0.15	0.17	0.14	---	6.0	12	32	6.4	5.8	2.4	2.1
30	3.1	0.13	0.17	0.14	---	6.4	12	34	5.7	5.5	2.3	2.0
31	2.8	---	0.18	0.14	---	6.2	---	42	---	4.9	2.3	---
TOTAL	70.6	68.07	45.1	42.6	37.6	109.06	211.3	1181	634.4	222.3	109.0	70.3
MEAN	2.28	2.27	1.45	1.37	1.34	3.52	7.04	38.1	21.1	7.17	3.52	2.34
MAX	3.4	4.3	1.8	1.9	1.5	7.8	12	67	44	11	5.3	3.8
MIN	1.6	.82	1.1	1.1	1.1	.98	3.2	11	5.2	4.1	2.3	2.0
AC-FT	140	135	89	84	75	216	419	2340	1260	441	216	139

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)
1985	1.86	3.64	.77	1983	1.57	2.45	.75	1983	1.32	2.09	.64	1983	1.25	2.04	.59	1986
1986	1.37	2.82	.62	1986	1.37	2.82	.62	1986	1.37	2.82	.62	1986	1.37	2.82	.62	1986
1987	2.50	6.33	.85	1987	2.50	6.33	.85	1987	2.50	6.33	.85	1987	2.50	6.33	.85	1987
1988	5.51	18.7	1.15	1988	5.51	18.7	1.15	1988	5.51	18.7	1.15	1988	5.51	18.7	1.15	1988
1989	19.4	57.3	3.13	1989	19.4	57.3	3.13	1989	19.4	57.3	3.13	1989	19.4	57.3	3.13	1989
1990	7.01	17.9	1.25	1990	7.01	17.9	1.25	1990	7.01	17.9	1.25	1990	7.01	17.9	1.25	1990
1991	3.39	8.45	.76	1991	3.39	8.45	.76	1991	3.39	8.45	.76	1991	3.39	8.45	.76	1991
1992	2.16	4.58	.61	1992	2.16	4.58	.61	1992	2.16	4.58	.61	1992	2.16	4.58	.61	1992

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1972 - 1997

	1996 CALENDAR YEAR	1997 WATER YEAR	WATER YEARS 1972 - 1997
ANNUAL TOTAL	1826.77	2801.33	
ANNUAL MEAN	4.99	7.67	
HIGHEST ANNUAL MEAN			5.51
LOWEST ANNUAL MEAN			12.0
HIGHEST DAILY MEAN			2.00
LOWEST DAILY MEAN			1983
ANNUAL SEVEN-DAY MINIMUM			1994
ANNUAL RUNOFF (AC-FT)	3620	5560	3990
10 PERCENT EXCEEDS	13	25	13
50 PERCENT EXCEEDS	2.5	2.7	2.0
90 PERCENT EXCEEDS	1.1	1.3	.95

e Estimated

SEVIER LAKE BASIN

237

10173450 MAMMOTH CREEK ABOVE WEST HATCH DITCH, NEAR HATCH, UT

LOCATION.--Lat 37°37'19", long 112°30'58", in SW¹/₄SE¹/₄NW¹/₄ 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. Elevation of gage is 7,300 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. One small diversion for irrigation upstream of station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 838 ft³/s June 19, 1983, gage height, 5.13 ft, from rating curve extended above 640 ft³/s, 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 13	2130	*364	*3.77	Sept. 10	1430	345	3.69
Sept. 8	1700	318	3.57				

Minimum daily discharge, 4.0 ft³/s February 19-22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	8.5	e8.0	e7.0	e9.0	e6.0	12	98	104	34	20	17
2	8.5	e7.8	e8.0	e8.0	e7.0	e7.0	13	96	96	34	19	17
3	8.4	8.2	e8.0	e4.0	e10	e7.0	14	96	91	32	19	18
4	8.1	8.0	e8.0	e14	e12	e7.0	12	102	87	31	20	24
5	8.0	7.8	e9.0	e12	e10	e8.0	11	119	85	29	21	30
6	7.8	e7.7	e9.0	e10	e8.0	e9.0	11	170	83	28	19	24
7	7.7	e7.5	e9.0	e9.0	e7.0	e10	10	260	80	28	18	20
8	7.7	e7.5	e9.0	e8.0	e8.0	14	9.8	286	80	27	18	34
9	7.5	e7.5	12	e8.0	e8.0	17	9.7	253	82	27	18	29
10	7.4	e7.3	13	e9.0	e9.0	22	9.4	221	77	27	39	40
11	7.3	e7.6	11	e9.0	e9.0	28	9.2	200	71	26	38	28
12	7.3	7.5	8.6	e9.0	e7.0	35	9.2	260	68	26	35	25
13	7.4	7.3	e8.5	e8.0	e6.0	23	8.8	301	67	26	26	25
14	7.4	7.0	e8.0	e7.0	e7.0	18	8.6	253	71	25	23	24
15	7.4	7.3	e8.0	e6.0	e8.0	13	8.5	254	73	24	21	38
16	7.3	e7.0	e7.0	e5.0	e7.0	14	8.5	263	70	24	20	43
17	7.4	e7.0	e7.0	e5.0	e6.0	12	8.5	250	64	23	19	50
18	7.6	7.5	e6.0	e5.0	e5.0	11	9.2	242	59	23	19	47
19	7.4	7.1	e6.0	e6.0	e4.0	9.8	12	225	53	22	18	36
20	7.9	7.0	e6.0	e6.0	e4.0	9.4	17	213	48	23	18	32
21	e7.0	7.4	e7.0	e7.0	e4.0	9.3	26	207	46	23	17	32
22	e7.0	12	e7.0	e7.0	e4.0	9.5	39	197	43	22	18	31
23	e7.5	24	e8.0	e7.0	e5.0	9.3	48	180	42	22	22	29
24	e7.5	17	e7.0	e7.0	e6.0	9.2	51	178	41	21	18	27
25	8.4	12	e7.0	e7.0	e5.0	9.3	53	167	39	20	17	26
26	e8.5	10	e7.0	e7.0	e5.0	9.0	52	146	37	20	17	68
27	16	e9.0	e7.0	e7.0	e5.0	9.0	49	136	35	21	16	69
28	11	e9.0	e7.0	e7.0	e5.0	9.6	57	127	35	21	16	78
29	e11	e9.0	e7.0	e7.0	---	11	75	123	34	21	16	74
30	e9.4	e8.0	e7.0	e8.0	---	11	87	119	34	21	16	65
31	8.6	---	e7.0	e10	---	11	---	112	---	20	17	---
TOTAL	254.9	267.5	247.1	272.0	190.0	387.4	748.4	5854	1895	771	638	1100
MEAN	8.22	8.92	7.97	8.77	6.79	12.5	24.9	189	63.2	24.9	20.6	36.7
MAX	16	24	13	40	12	35	87	301	104	34	39	78
MIN	7.0	7.0	6.0	5.0	4.0	6.0	8.5	96	34	20	16	17
AC-FT	506	531	490	540	377	768	1480	11610	3760	1530	1270	2180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1997, BY WATER YEAR (WY)

	MEAN	20.6	17.3	13.9	11.7	11.4	12.8	29.2	174	173	60.3	33.1	25.3
	MAX	56.8	44.5	34.9	24.2	23.0	24.7	75.4	373	616	284	105	65.2
(WY)	1984	1984	1984	1984	1973	1973	1985	1969	1983	1983	1983	1983	1983
	MIN	4.35	3.98	4.39	2.91	3.36	4.28	6.19	9.69	12.5	10.3	7.60	5.64
(WY)	1978	1978	1978	1978	1978	1991	1991	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1965 - 1997

ANNUAL TOTAL													
ANNUAL MEAN				18.8			6896.9		12625.3				
HIGHEST ANNUAL MEAN							34.6		48.7				
LOWEST ANNUAL MEAN									112		1983		
HIGHEST DAILY MEAN				120	May 9		301	May 13	720	Jun 19 1983			
LOWEST DAILY MEAN				6.0	Dec 18		4.0	Feb 19	1.1	Nov 20 1977			
ANNUAL SEVEN-DAY MINIMUM				6.6	Dec 16		4.6	Feb 17	1.9	Jan 1 1978			
ANNUAL RUNOFF (AC-FT)				13680			25040		35280				
10 PERCENT EXCEEDS				35			86		116				
50 PERCENT EXCEEDS				13			12		19				
90 PERCENT EXCEEDS				7.5			7.0		7.4				

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 15 ft upstream of county road bridge, 0.2 mi east of Hatch, and 2.8 mi downstream from Mammoth Creek.

DRAINAGE AREA.--340 mi².

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. Crest-stage gage since Nov. 9, 1995. Elevation of gage is 6,870 ft above sea level, 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 good except those for estimated daily discharges, which are poor. Small diversions for irrigation above station. No regulation since Hatchtown Dam failed in 1914.

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 daily discharge, 21 ft³/s Sept. 8, 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)
Jan. 3	1150	*639	*2.71	No other peak greater than base discharge.			
Minimum daily, 44 ft ³ /s Oct. 15.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	56	e52	53	54	53	82	183	165	82	68	62
2	48	55	e52	58	55	53	84	181	155	83	67	67
3	49	57	e52	242	53	53	81	178	144	78	69	63
4	48	57	54	89	53	54	82	178	139	77	73	73
5	47	56	54	68	54	51	84	194	136	76	71	79
6	47	54	56	e54	53	54	78	238	135	74	68	73
7	48	53	54	e50	e50	60	77	289	133	73	66	67
8	48	54	55	e54	e50	74	73	298	135	72	66	75
9	47	54	56	57	e50	87	74	283	144	72	71	80
10	45	54	61	59	52	106	72	261	138	72	111	86
11	45	54	59	57	53	124	71	246	130	72	90	80
12	45	54	58	59	53	139	73	267	128	71	85	74
13	45	54	56	e54	e50	118	72	298	125	71	76	73
14	45	54	55	e52	e50	96	71	328	134	72	70	123
15	44	55	e52	e50	52	85	69	330	139	70	67	141
16	45	54	e50	e50	53	88	69	344	136	67	65	116
17	45	55	e50	e50	55	87	69	329	125	66	63	111
18	46	56	e50	e50	55	77	75	319	116	67	62	107
19	48	55	e50	e50	53	70	76	310	108	67	61	96
20	49	52	e50	55	54	66	84	292	104	67	61	87
21	50	53	e50	55	51	67	96	288	99	68	60	83
22	52	76	e50	55	52	67	114	278	90	68	56	82
23	53	82	e50	56	51	66	126	262	89	67	61	79
24	54	73	e50	55	50	70	136	259	88	66	59	76
25	54	64	e50	55	52	67	137	252	87	67	58	77
26	50	61	52	57	53	68	132	226	85	66	57	140
27	55	58	53	56	54	70	127	212	84	67	55	146
28	56	e56	53	55	52	75	135	200	84	71	56	140
29	56	e54	52	55	---	79	149	193	82	72	55	137
30	56	e54	53	53	---	78	168	188	81	70	55	125
31	56	---	53	54	---	78	---	178	---	70	66	---
TOTAL	1521	1724	1642	1917	1467	2380	2836	7882	3538	2201	2068	2818
MEAN	49.1	57.5	53.0	61.8	52.4	76.8	94.5	254	118	71.0	66.7	93.9
MAX	56	82	61	242	55	139	168	344	165	83	111	146
MIN	44	52	50	50	50	51	69	178	81	66	55	62
AC-FT	3020	3420	3260	3800	2910	4720	5630	15630	7020	4370	4100	5590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
(WY)	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984
(WY)	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1940 - 1997

ANNUAL TOTAL	24031	31994	109
ANNUAL MEAN	65.7	87.7	251
HIGHEST ANNUAL MEAN			42.6
LOWEST ANNUAL MEAN			1983
HIGHEST DAILY MEAN	161	May 9	1340
LOWEST DAILY MEAN	43	Aug 1	21
ANNUAL SEVEN-DAY MINIMUM	44	Aug 17	23
ANNUAL RUNOFF (AC-FT)	47670	63460	79170
10 PERCENT EXCEEDS	88	147	204
50 PERCENT EXCEEDS	56	67	68
90 PERCENT EXCEEDS	45	50	44

e Estimated

SEVIER LAKE BASIN

239

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 62, 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. Elevation of gage is 5,980 ft above sea level, from river-profile map. Prior to Sept. 20, 1918, at site 1 mi downstream at different datum.

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

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 daily discharge, 1.6 ft³/s July 24, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 561 ft³/s Jan. 4, gage height, 2.56 ft; minimum daily discharge, 13 ft³/s July 14-15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	51	139	151	157	136	87	102	51	22	20	37
2	22	53	146	151	162	141	82	107	50	23	20	63
3	23	62	137	206	157	141	90	118	43	23	21	60
4	24	70	139	392	154	144	103	94	39	23	22	102
5	27	63	143	220	152	140	99	84	37	22	22	177
6	26	58	155	172	145	138	100	94	36	21	21	144
7	25	60	155	145	138	142	100	120	36	19	20	170
8	23	60	155	160	141	154	87	157	38	17	20	120
9	24	56	156	153	143	184	101	154	39	16	21	251
10	25	61	174	156	146	229	134	133	48	16	24	195
11	24	65	186	161	147	295	116	118	44	16	109	161
12	22	62	173	161	145	362	94	104	42	15	61	126
13	22	70	164	158	141	392	89	115	41	14	47	113
14	25	76	156	151	138	284	91	129	44	13	32	172
15	26	87	142	139	143	230	56	146	67	13	28	234
16	26	119	140	143	146	198	45	147	71	14	25	275
17	25	128	139	139	154	186	44	159	53	14	23	206
18	24	137	124	141	178	189	41	144	45	14	23	185
19	25	136	120	146	169	173	44	131	42	15	27	178
20	25	134	137	149	169	170	50	120	37	15	29	161
21	31	134	e136	150	155	165	70	121	33	15	31	156
22	34	164	e140	147	148	154	99	123	31	16	44	143
23	35	192	e144	155	148	148	92	110	29	16	40	127
24	35	175	142	158	143	136	113	104	26	15	53	129
25	36	167	135	158	139	121	97	110	25	15	50	139
26	37	156	139	182	141	122	87	104	24	15	42	167
27	36	147	142	192	146	117	76	83	24	16	31	199
28	45	144	146	199	145	109	82	69	24	18	37	196
29	40	155	143	174	---	115	89	57	23	19	36	167
30	42	147	146	168	---	100	98	53	23	20	33	163
31	46	---	148	158	---	92	---	58	---	20	33	---
TOTAL	900	3189	4541	5235	4190	5407	2556	3468	1165	530	1045	4716
MEAN	29.0	106	146	169	150	174	85.2	112	38.8	17.1	33.7	157
MAX	46	192	186	392	178	392	134	159	71	23	109	275
MIN	20	51	120	139	138	92	41	53	23	13	20	37
AC-FT	1790	6330	9010	10380	8310	10720	5070	6880	2310	1050	2070	9350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1915	83.6	319	1917	6.90	1961
1916	131	237	1984	29.6	1932
1917	145	252	1984	34.3	1932
1918	134	218	1984	45.0	1932
1919	155	259	1924	74.7	1932
1920	172	330	1921	65.5	1957
1921	156	507	1916	16.3	1963
1922	226	1154	1922	8.73	1959
1923	155	1140	1983	7.44	1974
1924	48.5	321	1995	4.89	1971
1925	52.2	315	1916	5.36	1960
1926	60.1	232	1921	7.01	1960

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1915 - 1997

ANNUAL TOTAL	29609.6	36942	126
ANNUAL MEAN	80.9	101	359
HIGHEST ANNUAL MEAN			49.4
LOWEST ANNUAL MEAN			1922
HIGHEST DAILY MEAN	258	392	1560
LOWEST DAILY MEAN	7.8	13	1.6
ANNUAL SEVEN-DAY MINIMUM	8.1	14	2.9
ANNUAL RUNOFF (AC-FT)	58730	73270	91540
10 PERCENT EXCEEDS	195	171	227
50 PERCENT EXCEEDS	28	107	112
90 PERCENT EXCEEDS	11	22	12

e Estimated

SEVIER LAKE BASIN

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 8.0 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. Elevation of gage is 6,150 ft above sea level, 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 3, 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 same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diversions for irrigation above and below station. Also diversion upstream for storage in Otter Creek Reservoir (see station 10188000); flow regulated by reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,030 ft³/s, May 12, 1941, gage height, 5.05 ft from rating curve extended above 1,500 ft³/s, site and datum then in use; minimum, 1.0 ft³/s Jan. 25, 1976, gage height, 0.52 ft, datum then in use, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 710 ft³/s Aug. 22, from slope-area measurement, maximum gage height, 8.29 ft (caused by backwater from tributary flood inflow 500 ft downstream); minimum daily discharge, 11 ft³/s Oct. 16-19

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	16	e16	18	19	22	20	46	101	118	133	90
2	19	15	e15	17	19	24	20	47	102	119	133	88
3	22	15	e15	e17	18	19	20	40	102	120	133	90
4	16	15	e15	e16	17	48	20	37	100	120	139	96
5	15	15	e15	e15	17	57	19	37	98	124	202	97
6	15	15	e16	e15	e17	59	19	43	95	124	200	100
7	14	15	e17	e15	e16	59	19	44	88	125	178	92
8	13	14	17	e17	e16	65	19	44	95	125	179	40
9	13	14	17	e16	e15	111	23	46	97	123	180	32
10	13	14	20	e16	e16	57	22	38	115	123	182	30
11	13	15	21	e17	16	106	23	40	114	120	186	20
12	14	15	20	17	e16	190	21	42	108	117	202	24
13	14	15	18	e15	e16	217	21	43	105	125	189	18
14	15	15	18	e16	e17	162	20	50	100	128	179	17
15	12	16	e17	e15	17	64	16	53	104	128	173	18
16	11	16	e17	e16	17	48	14	55	114	129	87	19
17	11	16	e17	e16	19	40	14	117	108	135	66	25
18	11	16	e15	e16	20	36	13	169	103	131	67	25
19	11	16	e15	e17	19	36	13	179	101	130	66	25
20	12	16	e16	e17	19	36	18	184	99	132	97	25
21	15	15	e17	e17	18	33	24	163	96	133	175	25
22	15	17	e17	e17	17	29	36	160	96	129	e210	25
23	15	17	e17	e17	17	25	36	153	95	149	40	25
24	16	16	e14	e16	17	22	40	144	97	139	32	25
25	18	16	e15	e17	17	34	37	149	106	135	80	26
26	19	16	e16	e18	17	139	30	150	137	135	83	27
27	18	15	e17	e18	17	153	29	143	139	136	92	26
28	18	26	e17	e19	17	41	30	102	125	140	97	25
29	17	16	e17	21	---	22	38	102	120	138	95	25
30	18	e16	e17	22	---	20	42	103	121	138	90	25
31	16	---	e17	19	---	20	---	102	---	135	94	---
TOTAL	467	474	518	525	483	1994	716	2825	3181	4003	4059	1225
MEAN	15.1	15.8	16.7	16.9	17.3	64.3	23.9	91.1	106	129	131	40.8
MAX	22	26	21	22	20	217	42	184	139	149	210	100
MIN	11	14	14	15	15	19	13	37	88	117	32	17
AC-FT	926	940	1030	1040	958	3960	1420	5600	6310	7940	8050	2430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1914	36.8	241	1923	9.12	1962
1915	27.0	151	1985	8.97	1965
1916	22.5	128	1939	8.25	1973
1917	22.2	156	1939	7.00	1960
1918	25.7	146	1986	7.19	1977
1919	38.7	171	1983	11.7	1956
1920	74.8	398	1942	15.0	1935
1921	164	1109	1922	28.4	1945
1922	149	551	1983	28.0	1957
1923	166	365	1915	31.3	1936
1924	134	334	1917	18.0	1934
1925	84.6	243	1917	18.4	1934

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1914 - 1997

ANNUAL TOTAL	33072	20470	79.1
ANNUAL MEAN	90.4	56.1	201
HIGHEST ANNUAL MEAN			33.5
LOWEST ANNUAL MEAN			1740
HIGHEST DAILY MEAN	257	217	May 12 1941
LOWEST DAILY MEAN	11	11	Oct 16
ANNUAL SEVEN-DAY MINIMUM	12	12	Oct 14
ANNUAL RUNOFF (AC-FT)	65600	40600	57270
10 PERCENT EXCEEDS	221	136	208
50 PERCENT EXCEEDS	69	24	33
90 PERCENT EXCEEDS	15	15	13

e Estimated

SEVIER LAKE BASIN

241

10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UT

LOCATION.--Lat 38°19'43", long 112°11'30", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ 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 and concrete control. Elevation of gage is 5,870 ft above sea level, 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. Apr. 22, 1979 to Sept. 30, 1985, at datum 10.0 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Piute Reservoir.

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, 708 ft³/s June 25, 26, 29, 30. Maximum gage height 12.60 ft June 25, 26; minimum daily discharge, 2.6 ft³/s Feb. 4, 5, 7-9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	26	3.2	3.3	3.9	77	6.1	496	18	651	313	428
2	33	16	3.2	3.1	3.3	78	6.1	503	16	624	302	428
3	32	16	3.0	3.3	2.9	81	6.1	535	14	578	235	431
4	32	15	3.0	3.4	2.6	82	6.2	545	12	577	193	415
5	25	15	3.1	3.5	2.6	97	6.3	506	11	596	176	439
6	17	13	3.2	3.3	2.8	162	6.4	461	9.8	518	182	418
7	18	7.9	3.2	3.3	2.6	168	6.2	402	28	515	236	353
8	17	7.4	3.1	3.5	2.6	165	6.3	414	50	505	214	238
9	15	6.8	3.1	3.5	2.6	165	6.4	432	49	532	223	148
10	14	6.1	3.1	3.5	2.8	165	6.4	347	28	554	233	185
11	14	6.0	3.0	3.5	2.9	165	6.4	362	18	579	215	143
12	17	5.7	3.0	3.3	2.8	165	6.4	328	35	596	194	141
13	62	5.4	2.9	3.2	2.7	207	6.4	257	84	558	159	143
14	65	5.2	2.9	3.2	2.7	252	6.4	220	187	507	191	131
15	64	4.9	4.8	3.2	2.7	258	22	187	94	543	219	125
16	68	4.8	2.9	3.2	2.8	290	90	126	69	559	279	105
17	70	4.6	4.5	3.2	2.9	296	124	65	107	543	320	94
18	68	4.3	2.9	3.2	2.9	296	208	14	152	549	356	90
19	51	4.2	2.9	3.2	2.9	279	213	41	144	581	409	87
20	48	4.1	2.9	3.2	2.9	26	229	130	164	546	406	55
21	37	4.2	3.1	3.2	2.9	9.7	272	109	209	539	403	35
22	36	3.7	3.1	3.3	2.9	9.2	269	81	300	514	400	21
23	42	3.2	3.2	3.5	2.9	8.7	397	118	382	468	352	8.8
24	47	3.2	3.2	3.5	25	8.4	370	66	458	461	397	8.0
25	47	3.2	3.0	3.5	74	7.4	359	26	702	403	397	7.9
26	41	3.2	3.0	3.9	77	7.1	341	20	704	373	398	7.6
27	34	3.2	3.1	4.0	77	7.1	307	17	699	350	399	7.1
28	35	3.2	3.1	4.0	77	6.9	379	36	699	342	409	8.1
29	31	3.2	3.2	3.8	---	6.6	408	62	708	321	408	8.5
30	28	3.2	3.2	3.9	---	6.4	466	45	703	305	434	8.0
31	28	---	3.2	3.9	---	6.2	---	23	---	302	428	---
TOTAL	1171	211.9	98.3	106.6	395.6	3557.7	4542.1	6974	6853.8	15589	9480	4717.0
MEAN	37.8	7.06	3.17	3.44	14.1	115	151	225	228	503	306	157
MAX	70	26	4.8	4.0	77	296	466	545	708	651	434	439
MIN	14	3.2	2.9	3.1	2.6	6.2	6.1	14	9.8	302	159	7.1
AC-FT	2320	420	195	211	785	7060	9010	13830	13590	30920	18800	9360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1944	90.9	302	1984	14.3	1987
1945	54.8	286	1984	7.06	1997
1946	35.3	460	1985	2.37	1979
1947	33.2	383	1984	1.56	1951
1948	85.3	597	1984	1.76	1951
1949	108	417	1983	3.12	1971
1950	209	550	1984	6.09	1952
1951	380	1017	1983	41.9	1957
1952	346	1862	1983	14.6	1957
1953	421	643	1983	182	1961
1954	355	577	1985	83.2	1956
1955	201	493	1949	28.2	1956

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1944 - 1997

ANNUAL TOTAL	75234.1	53697.0	194
ANNUAL MEAN	206	147	498
HIGHEST ANNUAL MEAN			100
LOWEST ANNUAL MEAN			1956
HIGHEST DAILY MEAN	682	708	2470
LOWEST DAILY MEAN	2.9	2.6	.30
ANNUAL SEVEN-DAY MINIMUM	3.0	2.7	.51
ANNUAL RUNOFF (AC-FT)	149200	106500	140300
10 PERCENT EXCEEDS	434	461	504
50 PERCENT EXCEEDS	186	35	110
90 PERCENT EXCEEDS	3.2	3.1	4.6

SEVIER LAKE BASIN

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, on State Highway 4, 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 and crest-stage gage. Elevation of gage is 5,680 ft above sea level, from topographic map. Prior to Nov. 5, 1993, 200 ft upstream at datum 3.0 ft higher.

REMARKS.--Records good except those for flows greater than 50 ft³/s and those for estimated daily discharges, which are poor. Slight regulation from several small reservoirs at headwaters, total combined capacity about 1,000 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 906 ft³/s Aug. 26, 1988, gage height, 2.40 ft, datum then in use, from rating curve extended above 400 ft³/s; minimum, 1.5 ft³/s Feb. 21, 1976, gage height, 0.85 ft, datum then in use, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 232 ft³/s May 18, gage height, 3.26 ft; minimum daily discharge, 3.9 ft³/s Dec. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	14	e11	13	16	e14	43	123	e173	58	25	16
2	11	13	e11	14	16	16	41	112	175	55	23	17
3	12	15	e7.3	30	e14	15	41	104	156	52	22	21
4	11	14	e9.6	23	e14	15	41	105	156	49	27	26
5	11	14	13	e15	e14	e13	37	118	147	47	25	24
6	11	e12	16	e13	e14	16	35	132	e136	45	23	25
7	11	e11	e15	e7.9	e7.8	16	36	143	129	43	22	24
8	11	e13	e14	20	e13	18	33	144	131	42	21	23
9	11	14	15	18	e14	20	40	144	149	42	21	24
10	11	e13	18	17	e16	23	39	143	151	38	23	24
11	11	e13	17	16	e15	28	35	141	135	38	25	22
12	11	13	16	15	e15	34	37	150	141	37	25	21
13	11	13	15	e11	e15	35	33	163	e139	36	24	20
14	11	13	14	e11	e13	32	42	180	138	33	21	20
15	11	13	e7.0	e9.3	e15	34	52	182	135	31	20	22
16	11	13	e13	e10	e15	35	51	191	122	30	18	22
17	12	13	e9.2	e9.2	16	34	52	201	118	30	18	20
18	12	14	e3.9	e11	16	36	58	212	123	29	18	29
19	12	14	e5.1	e13	e15	39	68	200	128	28	17	38
20	13	13	8.5	15	16	47	75	185	128	27	16	33
21	e11	13	e9.0	15	e15	65	91	184	119	26	17	30
22	e11	37	e10	15	e15	65	91	172	111	27	17	27
23	13	24	e12	16	e15	62	99	168	105	29	20	26
24	13	18	e9.8	15	e14	56	96	179	97	26	17	24
25	14	17	e11	16	e13	44	93	165	92	24	16	23
26	14	16	15	18	e15	43	97	144	87	23	15	25
27	e13	e12	15	17	16	44	103	131	82	24	15	24
28	15	e10	14	15	15	45	107	136	75	29	16	24
29	14	15	13	15	---	44	117	143	68	29	17	23
30	14	e11	13	e13	---	41	116	162	62	28	17	22
31	14	---	14	15	---	42	---	171	---	28	17	---
TOTAL	372	438	374.4	461.4	407.8	1071	1899	4828	3708	1083	618	719
MEAN	12.0	14.6	12.1	14.9	14.6	34.5	63.3	156	124	34.9	19.9	24.0
MAX	15	37	18	30	16	65	117	212	175	58	27	38
MIN	11	10	3.9	7.9	7.8	13	33	104	62	23	15	16
AC-FT	738	869	743	915	809	2120	3770	9580	7350	2150	1230	1430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1997, BY WATER YEAR (WY)

	MEAN	13.2	12.3	10.9	10.6	13.5	22.9	55.1	133	109	38.8	18.0	13.7
MAX	26.8	21.6	19.4	21.4	35.3	48.5	197	481	322	135	51.4	30.5	
(WY)	1985	1985	1967	1984	1984	1986	1984	1984	1983	1995	1984	1984	
MIN	6.62	7.30	4.29	4.50	5.86	10.1	10.9	21.9	21.1	8.01	4.74	4.20	
(WY)	1960	1978	1978	1978	1978	1964	1963	1977	1959	1959	1977	1959	

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1958 - 1997

ANNUAL TOTAL	8023.1	15979.6	
ANNUAL MEAN	21.9	43.8	
HIGHEST ANNUAL MEAN			37.7
LOWEST ANNUAL MEAN			96.2
HIGHEST DAILY MEAN	81	212	12.0
LOWEST DAILY MEAN	3.9	3.9	633
ANNUAL SEVEN-DAY MINIMUM	7.8	8.0	1.8
ANNUAL RUNOFF (AC-FT)	15910	31700	2.4
10 PERCENT EXCEEDS	55	135	27310
50 PERCENT EXCEEDS	15	21	93
90 PERCENT EXCEEDS	9.3	11	16
			7.8

e Estimated

SEVIER LAKE BASIN

243

10205000 SEVIER RIVER NEAR SIGURD, UT

LOCATION.--Lat 38°52'24", 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. Elevation of gage is 5,180 ft above sea level, 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 1.5 ft higher, Oct. 16, 1935 to Oct. 16, 1990, at datum 3.5 ft higher.

REMARKS.--No estimated daily discharges. Records good except those for discharges less than 5 ft³/s, which are poor. Flow regulated by reservoirs above station. During irrigation season practically entire flow through Rocky Ford Dam is diverted above station for irrigation below station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft³/s, May 30, 1922, gage height, 9.6 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 are closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 340 ft³/s Mar. 21, gage height, 6.19 ft; minimum daily discharge, 3.4 ft³/s July 26-27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	82	109	125	139	184	69	34	25	11	6.2	5.2
2	11	77	112	125	139	187	59	44	124	6.6	9.3	5.7
3	14	77	118	133	142	191	54	52	129	5.4	24	5.0
4	20	80	104	149	142	188	44	53	45	5.2	42	4.9
5	26	81	116	154	141	187	30	48	27	5.1	41	5.0
6	26	80	124	160	141	184	22	34	24	4.4	37	5.3
7	27	79	133	127	136	205	19	22	14	4.3	35	5.3
8	32	78	133	115	129	240	9.9	20	10	4.4	33	14
9	32	77	129	127	133	249	8.4	19	10	4.2	36	47
10	29	77	127	133	134	255	8.0	9.7	132	4.0	37	68
11	30	77	129	132	135	260	8.0	6.7	193	3.9	41	64
12	37	76	130	131	133	263	7.1	7.7	157	3.9	66	63
13	32	81	122	122	131	268	8.7	13	54	3.8	79	67
14	29	85	117	111	126	272	9.1	43	26	4.0	60	68
15	27	89	112	111	126	296	9.9	56	41	4.2	46	70
16	121	91	108	114	128	316	10	85	111	3.9	31	67
17	182	100	106	101	129	270	11	78	98	3.7	20	64
18	158	108	102	105	129	208	7.9	68	44	3.6	12	65
19	78	111	89	114	127	151	7.4	52	57	3.6	9.7	65
20	83	111	100	123	127	178	7.0	43	103	3.5	7.1	65
21	78	110	107	131	128	300	6.7	21	73	3.6	6.7	66
22	75	114	110	134	127	246	6.6	6.4	22	3.7	7.8	73
23	78	122	116	139	128	189	7.4	4.7	10	3.7	6.1	78
24	77	133	113	150	129	145	12	4.1	5.3	3.9	4.8	78
25	78	125	106	152	127	131	13	4.2	5.4	4.0	4.7	78
26	77	116	109	157	129	125	15	12	5.4	3.4	4.6	77
27	79	113	115	173	169	111	18	22	5.9	3.4	4.5	77
28	84	110	119	171	185	87	19	25	7.0	6.1	4.5	77
29	83	114	122	161	---	71	18	22	5.6	6.1	4.4	87
30	85	117	122	149	---	72	29	21	5.9	4.5	4.4	100
31	87	---	123	142	---	80	---	22	---	5.0	4.5	---
TOTAL	1882.6	2891	3582	4171	3789	6109	554.1	952.5	1569.5	140.1	729.3	1614.4
MEAN	60.7	96.4	116	135	135	197	18.5	30.7	52.3	4.52	23.5	53.8
MAX	182	133	133	173	185	316	69	85	193	11	79	100
MIN	7.6	76	89	101	126	71	6.6	4.1	5.3	3.4	4.4	4.9
AC-FT	3730	5730	7100	8270	7520	12120	1100	1890	3110	278	1450	3200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1944	81.3	310	1984	15.0	1952
1945	101	310	1981	34.6	1957
1946	123	591	1985	35.4	1957
1947	131	505	1984	45.4	1964
1948	180	693	1984	61.0	1956
1949	184	634	1984	67.0	1972
1950	133	836	1984	4.44	1972
1951	116	972	1984	4.17	1957
1952	141	2002	1983	1.47	1953
1953	32.9	367	1983	.88	1954
1954	25.6	159	1983	1.06	1963
1955	53.2	335	1985	.59	1956

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1944 - 1997

ANNUAL TOTAL	38158.8	27984.5	
ANNUAL MEAN	104	76.7	108
HIGHEST ANNUAL MEAN			482
LOWEST ANNUAL MEAN			38.7
HIGHEST DAILY MEAN	484	316	2350
LOWEST DAILY MEAN	1.2	3.4	.00
ANNUAL SEVEN-DAY MINIMUM	1.2	3.6	.03
ANNUAL RUNOFF (AC-FT)	75690	55510	78180
10 PERCENT EXCEEDS	292	150	237
50 PERCENT EXCEEDS	67	76	74
90 PERCENT EXCEEDS	1.6	5.0	2.1

SEVIER LAKE BASIN

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. Elevation of gage is 7,000 ft above sea level, 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 740 ft³/s, July 27, 1989, gage height, 5.85 ft present datum from rating curve extended above 150 ft³/s on basis of slope-area measurement of peak flow; minimum discharge, 0.80 ft³/s, Nov. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 225 ft³/s, May 16, gage height, 4.52 ft, minimum daily discharge 5.0 ft³/s, Mar. 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	8.0	e6.6	6.1	5.7	e5.3	9.2	38	69	24	19	12
2	8.8	8.0	e6.8	6.1	5.7	e5.4	8.2	31	64	24	19	12
3	8.7	8.3	e6.6	e6.2	5.9	5.5	8.2	30	58	24	19	13
4	8.9	8.0	e6.8	e6.2	6.7	e5.6	9.6	36	56	24	26	14
5	9.0	8.2	e6.8	e6.0	5.6	e5.0	8.4	41	51	21	24	13
6	8.8	7.9	e7.0	e6.0	5.7	e5.6	8.6	50	48	21	22	14
7	8.2	8.7	e7.0	e6.0	e5.7	e5.8	8.7	61	45	20	21	13
8	8.4	7.8	e7.0	e5.9	e5.7	5.8	8.5	65	45	20	20	13
9	8.8	7.5	7.0	e6.0	e5.8	6.0	8.7	69	42	20	19	13
10	8.5	7.4	6.7	6.3	e5.8	6.1	8.4	79	46	19	20	13
11	8.4	7.1	6.7	6.4	e5.9	6.4	7.9	87	40	19	20	13
12	8.4	7.2	6.7	6.3	e6.0	6.8	7.9	93	36	19	20	13
13	8.8	7.3	6.7	6.0	e6.0	6.5	7.6	116	35	21	19	13
14	8.4	7.1	6.3	6.3	e5.9	6.4	8.1	138	35	22	18	13
15	8.6	7.0	e6.3	e6.3	5.8	6.3	9.6	157	33	21	17	13
16	8.2	6.8	e6.2	e6.1	5.8	6.2	10	161	31	21	16	13
17	8.2	7.3	e6.2	e6.0	5.6	6.5	15	150	30	22	15	13
18	8.4	8.2	e6.0	e6.0	5.5	6.7	18	146	28	22	15	19
19	8.7	7.1	e6.2	e6.0	e5.5	7.5	25	134	28	23	15	18
20	8.3	7.3	e6.2	6.2	5.5	8.4	29	122	27	22	15	15
21	8.5	7.0	e6.3	5.9	e5.5	10	33	117	29	22	15	15
22	8.6	9.8	6.3	5.9	e5.5	10	32	126	27	22	14	16
23	8.2	8.0	6.2	6.0	5.6	11	31	112	26	24	13	14
24	8.0	7.1	e6.3	6.1	e5.6	11	25	105	26	24	13	14
25	8.5	7.0	e6.2	e6.0	e5.6	8.0	24	88	25	22	12	14
26	8.0	7.0	6.4	5.9	e5.6	8.5	26	73	25	22	13	14
27	8.6	7.2	6.3	5.9	5.6	11	34	66	25	21	13	14
28	8.4	e7.0	6.2	6.0	5.3	11	46	66	24	23	13	13
29	8.2	7.0	6.1	5.7	---	8.7	38	74	24	22	12	13
30	8.2	7.0	6.1	e6.0	---	8.5	33	77	24	21	12	13
31	8.3	---	6.1	6.2	---	9.5	---	74	---	21	12	---
TOTAL	262.4	226.3	200.3	188.0	160.1	231.0	546.6	2782	1102	673	521	413
MEAN	8.46	7.54	6.46	6.06	5.72	7.45	18.2	89.7	36.7	21.7	16.8	13.8
MAX	9.0	9.8	7.0	6.4	6.7	11	46	161	69	24	26	19
MIN	8.0	6.8	6.0	5.7	5.3	5.0	7.6	30	24	19	12	12
AC-FT	520	449	397	373	318	458	1080	5520	2190	1330	1030	819
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1997, BY WATER YEAR (WY)												
MEAN	9.96	8.29	7.15	6.52	6.41	7.60	15.2	68.6	47.0	17.6	14.0	11.6
MAX	18.9	16.0	14.1	13.6	10.8	16.0	51.6	275	162	50.3	34.4	25.4
(WY)	1985	1985	1985	1985	1985	1988	1985	1984	1983	1983	1983	1984
MIN	3.57	3.24	3.33	2.58	2.49	4.25	5.31	5.12	3.70	4.67	4.09	3.55
(WY)	1978	1978	1978	1977	1977	1977	1964	1977	1977	1977	1977	1977
SUMMARY STATISTICS												
FOR 1996 CALENDAR YEAR				FOR 1997 WATER YEAR				WATER YEARS 1964 - 1997				
ANNUAL TOTAL				5782.6				7305.7				
ANNUAL MEAN				15.8				20.0				
HIGHEST ANNUAL MEAN								18.4				
LOWEST ANNUAL MEAN								53.0				
								4.58				
HIGHEST DAILY MEAN				100				May 12		434		
LOWEST DAILY MEAN				6.0				Dec 18		1.5		
ANNUAL SEVEN-DAY MINIMUM				6.2				Dec 14		1.7		
ANNUAL RUNOFF (AC-FT)				11470						13310		
10 PERCENT EXCEEDS				31						35		
50 PERCENT EXCEEDS				9.1						9.5		
90 PERCENT EXCEEDS				7.0						5.1		

e Estimated

SEVIER LAKE BASIN

245

10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT

LOCATION.--Lat 39°15'33", long 111°34'45", in NE¹/₄ SE¹/₄ SE¹/₄ 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 National 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. Elevation of gage is 6,500 ft (revised) above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and the period from May 12-June 16,, 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 705 ft³/s June 28, 1995, gage height, 5.49 ft; minimum, 0.9 ft³/s Nov. 3, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 318 ft³/s Jun. 17, gage height 4.96 ft. but may have been higher during period of orifice damage May-June, minimum daily discharge 3.5 ft³/s, Feb. 23-24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	6.0	e4.8	4.7	4.2	e4.5	11	42	e198	52	20	12
2	5.1	6.4	e4.8	5.0	4.1	e4.5	11	35	e170	49	19	13
3	5.3	6.3	e5.0	7.8	4.1	e4.6	10	35	e140	47	18	14
4	5.3	6.1	e5.3	4.7	4.0	3.8	10	43	e92	47	20	12
5	5.2	5.8	e5.7	5.0	4.2	4.0	8.7	50	71	50	18	12
6	5.2	6.6	6.7	4.5	4.3	4.3	11	55	79	45	16	12
7	5.1	9.7	5.7	5.2	e4.5	4.7	9.3	60	79	43	16	11
8	5.1	8.0	5.8	4.7	e4.7	5.1	8.0	65	102	40	15	11
9	5.1	7.1	6.0	e4.7	e5.0	5.3	8.2	68	122	39	16	12
10	4.9	6.8	6.4	e4.7	e5.2	6.2	8.2	69	128	37	18	11
11	4.9	6.2	6.3	e5.0	e5.3	7.4	8.0	72	133	36	15	11
12	4.9	5.9	6.7	e5.0	e5.0	8.9	7.6	79	118	34	16	11
13	4.8	6.0	6.3	e4.8	e5.1	8.0	9.2	e60	112	34	15	11
14	5.1	5.7	5.7	e4.5	e5.2	7.1	8.5	e70	120	33	14	11
15	5.0	5.6	e5.0	4.2	e5.4	6.4	10	e85	144	31	14	11
16	5.3	5.4	e4.9	4.3	e5.5	6.6	13	e90	127	29	14	11
17	4.7	11	e5.4	e4.4	e5.2	6.7	15	e95	117	28	14	10
18	5.3	8.3	e4.7	e4.4	e5.0	7.9	19	e115	118	27	14	19
19	5.6	6.6	e5.5	4.4	e4.3	9.8	24	e150	106	28	13	17
20	4.9	6.5	e5.6	4.5	e4.7	13	29	e155	99	26	13	12
21	6.1	6.6	6.1	4.6	e4.2	14	33	e180	93	25	13	11
22	7.6	16	5.0	4.2	e3.7	15	30	e216	88	25	13	12
23	6.1	8.3	4.8	4.5	e3.5	15	29	e256	82	27	13	11
24	6.1	6.5	4.5	4.6	e3.5	13	27	e278	78	24	13	11
25	5.0	6.7	4.5	4.3	e3.6	11	25	e222	72	23	12	11
26	6.4	5.7	4.6	4.3	e4.5	12	26	e195	67	22	12	13
27	9.4	e5.7	4.7	4.2	e4.6	13	32	e180	64	21	12	12
28	5.9	e5.8	4.6	4.2	e4.0	11	41	e187	61	23	12	11
29	5.8	e7.2	4.5	4.1	---	10	43	e243	58	23	12	11
30	5.8	e6.9	4.5	4.2	---	11	37	e325	55	21	12	11
31	6.1	---	4.7	4.1	---	12	---	e215	---	20	12	---
TOTAL	172.2	211.4	164.8	143.8	126.6	265.8	561.7	3990	3093	1009	454	358
MEAN	5.55	7.05	5.32	4.64	4.52	8.57	18.7	129	103	32.5	14.6	11.9
MAX	9.4	16	6.7	7.8	5.5	15	43	325	198	52	20	19
MIN	4.7	5.4	4.5	4.1	3.5	3.8	7.6	35	55	20	12	10
AC-FT	342	419	327	285	251	527	1110	7910	6130	2000	901	710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1965	8.48	18.6	1984	4.32	1990
1966	6.74	12.5	1985	3.77	1993
1967	5.31	9.85	1984	3.35	1979
1968	4.80	8.79	1984	3.05	1981
1969	4.68	8.46	1984	3.13	1967
1970	6.19	12.3	1986	3.22	1991
1971	18.3	87.4	1985	5.46	1967
1972	98.9	232	1984	47.1	1990
1973	139	317	1983	32.2	1966
1974	45.3	183	1995	11.9	1966
1975	17.2	42.3	1983	5.75	1966
1976	11.0	26.0	1995	4.47	1966

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1965 - 1997

ANNUAL TOTAL	8965.7	10550.3	
ANNUAL MEAN	24.5	28.9	30.5
HIGHEST ANNUAL MEAN			61.0
LOWEST ANNUAL MEAN			14.1
HIGHEST DAILY MEAN	191	325	547
LOWEST DAILY MEAN	4.5	3.5	2.4
ANNUAL SEVEN-DAY MINIMUM	4.6	3.9	2.6
ANNUAL RUNOFF (AC-FT)	17780	20930	22120
10 PERCENT EXCEEDS	84	83	80
50 PERCENT EXCEEDS	6.6	11	8.5
90 PERCENT EXCEEDS	5.0	4.5	4.1

e Estimated

10217000 SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UT

LOCATION.--Lat 39°09'19", long 111°52'37", in NE¼NE¼SE¼ 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. Elevation of gage is 5,025 ft above sea level, from topographic map. Prior to Oct. 28, 1938, at same site at datum 0.36 ft higher. April 16, 1986, to June 6, 1989 at site approximately 1.0 mi downstream at different datum.

REMARKS.-- Records good except for estimated flows, which are poor. Flow regulated by reservoirs and many diversions for irrigation above station. Most of flow diverted above station during irrigation season.

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 discharge, 1360 ft³/s Jun 1, gage height, 7.42 ft; minimum daily discharge, 44 ft³/s July 20- 21, Aug. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	198	240	269	287	366	154	259	1260	85	71	51
2	76	191	239	269	287	369	150	294	1240	84	71	64
3	79	188	235	309	287	387	141	246	1240	78	72	68
4	84	194	234	318	292	383	136	242	1130	78	80	78
5	93	201	234	295	292	370	123	307	1030	77	141	80
6	e103	202	253	280	291	377	108	387	942	76	133	85
7	107	212	263	272	288	382	87	450	803	76	124	141
8	113	216	263	256	280	416	89	475	810	79	116	126
9	123	215	266	267	285	455	94	439	754	87	100	138
10	113	222	274	277	293	441	101	466	743	91	102	167
11	115	214	276	280	299	475	102	495	973	73	98	177
12	106	251	274	279	302	492	100	511	907	67	95	176
13	116	229	269	268	294	517	124	615	820	62	123	171
14	119	272	261	262	287	565	118	682	764	59	138	169
15	126	236	244	259	290	566	105	769	734	57	127	169
16	127	232	241	251	298	609	99	819	749	53	114	168
17	196	228	239	245	304	672	104	830	775	52	100	169
18	235	232	228	239	307	644	145	833	646	50	e75	173
19	215	254	224	245	307	585	80	824	509	45	e60	368
20	180	261	224	253	311	559	113	730	446	44	e47	285
21	179	257	237	259	312	626	131	881	519	44	e44	250
22	174	266	244	266	312	714	132	930	430	46	53	241
23	172	277	249	269	317	619	139	1140	310	64	53	254
24	174	272	246	276	315	524	202	1160	233	63	54	243
25	178	266	241	279	315	458	194	1220	173	56	53	237
26	182	258	240	285	318	387	178	1180	141	55	53	246
27	186	251	252	304	341	371	181	1020	112	55	63	250
28	187	234	259	316	379	309	227	961	98	56	73	245
29	202	239	262	307	---	241	295	983	88	66	59	235
30	195	249	266	298	---	189	258	1080	84	78	48	236
31	194	---	267	288	---	169	---	1180	---	74	47	---
TOTAL	4528	7017	7744	8540	8490	14237	4210	22408	19463	2030	2587	5460
MEAN	146	234	250	275	303	459	140	723	649	65.5	83.5	182
MAX	235	277	276	318	379	714	295	1220	1260	91	141	368
MIN	76	188	224	239	280	169	80	242	84	44	44	51
AC-FT	8980	13920	15360	16940	16840	28240	8350	44450	38600	4030	5130	10830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1997, BY WATER YEAR (WY)

MEAN	193	236	268	273	333	358	281	380	389	124	108	134
MAX	783	760	1028	868	1141	1443	1670	3606	4308	1624	591	499
(WY)	1984	1984	1984	1984	1984	1984	1984	1984	1983	1983	1983	1983
MIN	27.1	56.0	96.7	100	97.2	74.0	70.7	56.5	41.0	25.7	16.2	17.2
(WY)	1935	1935	1932	1935	1935	1935	1966	1961	1940	1960	1934	1934

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1918 - 1997
--------------------	------------------------	---------------------	-------------------------

ANNUAL TOTAL	80280		106714				
ANNUAL MEAN	219		292			256	
HIGHEST ANNUAL MEAN						1346	1984
LOWEST ANNUAL MEAN						86.5	1935
HIGHEST DAILY MEAN	723	Feb 24	1260	Jun 1		5400	May 29 1984
LOWEST DAILY MEAN	34	Aug 29	44	Jul 20		6.0	Jul 18 1977
ANNUAL SEVEN-DAY MINIMUM	39	Aug 25	48	Jul 16		6.6	Jul 14 1977
ANNUAL RUNOFF (AC-FT)	159200		211700			185300	
10 PERCENT EXCEEDS	477		676			475	
50 PERCENT EXCEEDS	176		241			188	
90 PERCENT EXCEEDS	51		73			59	

e Estimated

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. Elevation of gage is 4,940 ft above sea level, 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 June 15, 1961, water-stage recorder on left bank same site and datum. Since June 16, 1961 water-stage recorder on right bank at different datum.

REMARKS.--Records good. Flow regulated by Sevier Bridge Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,190 ft³/s June 25, 1983, gage height, 10.90 ft; no flow many days during April, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1180 ft³/s July 1, gage height, 7.80 ft; minimum daily discharge, 2.3 ft³/s Jan.30, 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	3.1	4.1	3.5	2.5	3.1	176	442	164	1080	559	555
2	3.7	3.1	4.1	3.7	2.5	3.2	174	435	165	928	523	299
3	3.8	3.2	4.5	e3.9	2.5	3.2	174	434	200	775	410	277
4	3.8	3.1	4.5	4.0	2.5	3.2	247	436	267	772	414	188
5	3.8	3.2	4.7	4.0	2.6	3.1	455	434	266	635	415	112
6	4.1	3.1	4.2	4.0	2.6	3.1	455	434	266	448	303	112
7	4.2	3.1	4.0	4.0	2.5	3.1	457	433	267	448	102	98
8	4.4	3.1	4.0	4.0	2.7	3.4	457	433	268	444	102	77
9	4.7	3.1	4.1	4.0	2.7	3.4	456	433	268	442	103	77
10	5.0	3.1	4.4	4.0	2.7	3.4	460	433	267	443	91	77
11	4.9	3.1	4.4	4.0	2.7	3.4	460	684	268	446	67	77
12	4.9	3.1	4.1	e4.0	2.7	3.6	459	990	266	447	68	77
13	5.1	3.1	4.3	e4.0	2.7	3.5	455	994	264	446	67	63
14	5.1	3.2	4.6	e4.0	2.7	3.3	456	996	264	443	68	38
15	5.1	3.1	4.5	4.0	2.8	3.1	456	996	266	376	68	38
16	5.1	3.2	4.6	4.0	2.8	3.2	457	996	266	280	69	38
17	5.1	3.3	e4.6	4.3	2.9	3.2	458	997	267	366	69	38
18	5.1	3.3	e4.5	4.1	2.7	3.1	457	998	268	566	69	38
19	5.2	3.6	4.5	3.7	2.7	3.1	458	995	268	564	97	38
20	5.1	3.8	4.6	3.5	2.9	3.1	460	872	268	564	360	24
21	5.1	4.1	4.7	3.2	2.7	3.1	459	692	268	563	441	7.1
22	5.1	4.5	4.1	2.8	3.1	3.1	481	692	268	562	726	7.0
23	4.9	3.9	4.0	e2.8	3.1	3.2	584	691	269	560	863	6.4
24	4.4	4.0	4.4	2.7	3.1	3.5	583	694	528	560	1170	6.4
25	4.2	4.0	4.5	e2.7	3.1	93	536	671	838	561	904	6.4
26	4.0	4.0	4.6	e2.7	3.1	172	442	394	913	556	690	6.7
27	4.0	4.0	4.5	e2.7	3.7	173	440	387	1040	556	798	6.4
28	4.2	4.0	4.0	2.7	3.3	173	437	381	1170	556	795	6.4
29	4.0	4.1	4.0	2.7	---	172	441	317	1170	557	794	6.4
30	3.9	4.0	3.5	2.3	---	173	438	163	1170	556	792	6.4
31	3.5	---	3.5	2.3	---	175	---	163	---	558	791	---

TOTAL	139.7	104.6	133.1	108.3	78.6	1208.7	12928	19110	12697	17058	12788	2406.6
MEAN	4.51	3.49	4.29	3.49	2.81	39.0	431	616	423	550	413	80.2
MAX	5.2	4.5	4.7	4.3	3.7	175	584	998	1170	1080	1170	555
MIN	3.5	3.1	3.5	2.3	2.5	3.1	174	163	164	280	67	6.4
AC-FT	277	207	264	215	156	2400	25640	37900	25180	33830	25360	4770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1997, BY WATER YEAR (WY)

MEAN	63.0	33.0	34.8	60.9	62.5	116	304	734	605	544	368	168
MAX	640	326	757	1295	1184	1535	1783	3135	4178	3293	1599	737
(WY)	1923	1913	1986	1984	1984	1983	1984	1984	1983	1983	1983	1923
MIN	1.00	.60	.45	.76	.94	1.01	2.00	305	138	65.4	25.0	1.34
(WY)	1961	1965	1965	1965	1965	1965	1941	1995	1964	1934	1934	1961

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1912 - 1997

ANNUAL TOTAL	109639.2	78760.6	
ANNUAL MEAN	300	216	
HIGHEST ANNUAL MEAN			259
LOWEST ANNUAL MEAN			1322
HIGHEST DAILY MEAN	938	May 10	1170
LOWEST DAILY MEAN	3.1	Nov 1	2.3
ANNUAL SEVEN-DAY MINIMUM	3.1	Nov 6	2.5
ANNUAL RUNOFF (AC-FT)	217500	156200	187600
10 PERCENT EXCEEDS	705	604	756
50 PERCENT EXCEEDS	240	6.7	34
90 PERCENT EXCEEDS	4.0	3.1	2.0

e Estimated

SEVIER LAKE BASIN
10224000 SEVIER RIVER NEAR LYNN DYLL, 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.

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. Prior to Oct. 1, 1979 at site 80 ft upstream. Prior to Apr. 23, 1991 at site 80 ft downstream. Elevation of gage is 4,660 ft above sea level, by barometer.

REMARKS.--Records good 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.

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, 950 ft³/s July 2, gage height, 7.04 ft; minimum discharge, 8.5 ft³/s Mar. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	66	66	61	15	14	222	448	242	927	501	660
2	60	65	69	61	15	34	224	441	234	924	530	568
3	60	63	72	71	15	47	227	425	182	819	527	271
4	52	63	98	76	15	50	219	415	171	688	421	259
5	54	65	79	74	15	50	218	393	227	664	411	242
6	59	65	67	68	15	51	407	355	247	620	399	154
7	58	64	65	81	15	52	449	349	258	437	358	118
8	58	63	63	39	16	52	459	329	253	419	168	116
9	58	63	64	28	14	51	476	286	280	393	123	111
10	58	63	66	22	14	53	478	277	287	373	113	111
11	57	62	66	19	13	53	475	291	282	364	96	104
12	57	63	66	21	13	52	473	419	286	365	84	94
13	57	62	64	33	14	52	465	810	296	365	90	80
14	57	62	67	46	13	51	462	844	289	367	86	78
15	57	61	63	45	13	52	463	860	287	385	79	76
16	58	62	61	45	13	52	477	881	291	379	73	74
17	58	64	82	45	13	52	481	880	283	e322	63	74
18	59	67	77	45	13	51	479	878	277	e352	61	71
19	60	67	76	45	13	51	471	876	268	e383	35	95
20	64	65	92	45	14	52	469	867	250	e415	28	96
21	63	65	92	44	13	52	455	797	234	e448	95	90
22	62	80	90	39	13	52	438	646	225	e467	220	82
23	61	85	85	25	13	39	456	632	203	479	445	68
24	62	77	81	22	13	34	548	652	177	493	557	64
25	66	71	84	18	13	33	558	680	209	497	860	62
26	67	68	97	18	13	31	544	685	539	482	862	62
27	64	66	85	17	15	118	461	499	651	470	543	54
28	63	65	81	16	15	179	452	446	739	473	668	41
29	68	67	64	17	---	190	451	436	853	486	695	47
30	69	66	62	17	---	198	447	419	911	502	674	36
31	66	---	61	15	---	202	---	274	---	488	658	---
TOTAL	1872	1985	2305	1218	389	2100	12904	17490	9931	15246	10523	4058
MEAN	60.4	66.2	74.4	39.3	13.9	67.7	430	564	331	492	339	135
MAX	69	85	98	81	16	202	558	881	911	927	862	660
MIN	52	61	61	15	13	14	218	274	171	322	28	36
AC-FT	3710	3940	4570	2420	772	4170	25600	34690	19700	30240	20870	8050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1997, BY WATER YEAR (WY)

	MEAN	70.3	74.0	68.6	92.0	113	171	298	608	544	464	311	127
MAX	516	469	728	1218	1134	1514	2087	3243	4702	2842	1645	497	
(WY)	1985	1985	1986	1984	1984	1983	1984	1984	1983	1983	1983	1984	
MIN	22.7	22.6	10.2	6.16	7.23	11.2	25.9	287	116	180	64.0	20.5	
(WY)	1968	1968	1963	1963	1978	1975	1952	1957	1964	1961	1965	1961	

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1916 - 1997

ANNUAL TOTAL	110557	80021	
ANNUAL MEAN	302	219	
HIGHEST ANNUAL MEAN			246
LOWEST ANNUAL MEAN			1369
HIGHEST DAILY MEAN	774	927	103
LOWEST DAILY MEAN	31	13	5020
ANNUAL SEVEN-DAY MINIMUM	51	13	4.5
ANNUAL RUNOFF (AC-FT)	219300	158700	4.9
10 PERCENT EXCEEDS	634	543	178200
50 PERCENT EXCEEDS	253	80	636
90 PERCENT EXCEEDS	61	19	76

e Estimated

SEVIER LAKE BASIN

249

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 September 1997 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 6,480 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120 ft³/s April 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)
May 1	0200	*14	*1.22				

Minimum daily discharge, 0.17 ft³/s Jan. 28-31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	.45	e1.2	1.4	.19	e2.2	7.5	14	3.7	1.3	.58	.49
2	.34	.45	e1.3	1.4	.20	2.3	7.1	13	3.5	1.2	.56	.48
3	.37	.47	e1.4	e1.0	.20	2.3	6.8	11	3.3	1.2	.55	.53
4	.37	.45	e1.5	e.84	.21	2.4	6.5	11	3.2	1.2	.66	.52
5	.34	.53	1.5	e.64	.22	e2.2	6.2	11	3.1	1.1	.62	.47
6	.37	.49	1.4	e.50	.22	2.2	5.7	10	2.9	1.1	.57	.51
7	.34	.66	1.4	e.35	.28	2.2	5.4	10	2.8	1.1	.56	.46
8	.33	.45	1.4	.26	e.40	2.2	5.2	10	3.0	1.0	.52	.45
9	.33	.46	1.5	.27	e.54	2.4	5.1	11	2.8	1.0	.60	.45
10	.33	.45	1.9	.34	e.66	2.6	4.9	10	2.6	.96	.63	.44
11	.33	.45	2.2	.38	e.82	3.1	4.7	10	2.4	.97	.57	.42
12	.33	.45	2.3	.40	e.76	3.7	4.5	10	2.3	.99	1.0	.42
13	.33	.45	2.3	.41	e.70	4.3	4.3	10	2.3	.96	.62	.42
14	.35	.45	2.2	.37	e.70	4.7	4.3	10	2.5	.91	.58	.41
15	.35	.46	2.0	.37	e.92	5.0	4.2	10	2.3	.87	.56	.44
16	.37	.50	e1.7	.39	e1.2	5.3	4.2	9.8	2.2	.84	.56	.44
17	.37	.52	e1.3	.38	e1.4	5.8	4.3	9.3	2.1	.81	.64	.42
18	.37	.54	e1.0	.37	e1.6	6.3	4.6	8.5	2.0	.80	.61	.54
19	.42	.50	e.70	.37	e1.9	6.9	5.7	8.0	1.9	.78	.57	.56
20	.41	.50	.19	.37	e2.0	7.5	7.1	7.8	1.8	.75	.61	.57
21	.41	.62	.24	.37	e2.2	8.2	8.2	7.2	1.8	.75	.62	.53
22	.41	e1.7	.64	.36	e2.3	9.0	8.4	6.5	1.7	.81	.60	.50
23	.41	e1.6	.70	.33	e2.4	9.0	9.0	5.8	1.6	.81	.59	.49
24	.44	1.5	.67	.33	e2.4	8.8	11	6.3	1.6	.75	.57	.48
25	.47	e1.4	.69	.32	e2.4	8.7	11	6.3	1.6	.71	.55	.44
26	.45	e1.3	.97	.27	2.3	8.7	12	5.7	1.5	.67	.55	.55
27	.45	e1.3	1.1	.21	e2.2	8.5	11	5.1	1.5	.68	.53	.48
28	.46	e1.3	1.1	.19	e2.1	8.3	12	4.7	1.4	.77	.52	.47
29	.46	e1.2	1.1	.17	---	7.8	12	4.2	1.3	.70	.51	.47
30	.45	e1.2	1.2	.17	---	7.7	13	4.0	1.3	.63	.50	.47
31	.48	---	1.3	.17	---	7.7	---	3.8	---	.60	.52	---
TOTAL	11.96	22.80	40.10	13.70	33.42	168.0	215.9	264.0	68.0	27.72	18.23	14.32
MEAN	.39	.76	1.29	.44	1.19	5.42	7.20	8.52	2.27	.89	.59	.48
MAX	.48	1.7	2.3	1.4	2.4	9.0	13	14	3.7	1.3	1.0	.57
MIN	.32	.45	.19	.17	.19	2.2	4.2	3.8	1.3	.60	.50	.41
AC-FT	24	45	80	27	66	333	428	524	135	55	36	28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1997, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1965	.68	2.64	1983	.29	1993
1966	.80	3.09	1983	.41	1993
1967	.95	3.03	1983	.40	1991
1968	.91	2.37	1983	.44	1997
1969	1.24	4.43	1983	.40	1977
1970	2.98	9.68	1983	.48	1977
1971	8.58	21.2	1983	1.29	1977
1972	12.6	41.5	1983	1.18	1992
1973	4.49	26.1	1983	.36	1992
1974	1.13	5.58	1983	.22	1992
1975	.62	2.59	1983	.14	1992
1976	.52	2.25	1983	.17	1992

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1965 - 1997

ANNUAL TOTAL	550.08	898.15	
ANNUAL MEAN	1.50	2.46	
HIGHEST ANNUAL MEAN			2.97
LOWEST ANNUAL MEAN			10.4
HIGHEST DAILY MEAN	5.6	14	73
LOWEST DAILY MEAN	.19	.17	.11
ANNUAL SEVEN-DAY MINIMUM	.33	.18	.13
ANNUAL RUNOFF (AC-FT)	1090	1780	2150
10 PERCENT EXCEEDS	4.4	8.1	8.3
50 PERCENT EXCEEDS	.96	.97	.90
90 PERCENT EXCEEDS	.34	.37	.38

e Estimated

10234500 BEAVER RIVER NEAR BEAVER, UT

LOCATION.--Lat 38°16'50", long 112°34'03", in SW¹/₄SE¹/₄SE¹/₄ 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. Elevation of gage is 6,200 ft above sea level, from topographic map. Prior to Mar. 30, 1914, nonrecording gage, and Mar. 30, 1914 to Oct. 15, 1937, water-stage recorder, at site 800 ft downstream 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. Datum was lowered 1.0 ft June 21, 1985, present location.

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

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 daily, 7.2 ft³/s Dec. 19, 1976.

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 15	2200	449	2.36	June 1	0045	*464	*2.39

Minimum daily discharge, 16 ft³/s Oct. 21, Nov. 17, Dec. 2, 3, 19, and Jan. 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	18	e17	18	18	e19	41	116	406	100	74	35
2	18	18	e16	18	18	e19	38	103	356	95	69	37
3	20	18	e16	22	e18	e18	37	96	343	90	67	43
4	19	18	e17	21	e18	18	35	120	314	96	72	47
5	18	18	e17	e20	18	e18	32	138	287	93	72	41
6	18	17	e18	e19	e17	19	31	149	236	91	66	52
7	18	e17	18	e17	e17	19	31	153	212	89	63	52
8	18	17	17	e19	e18	18	31	155	218	88	62	44
9	18	17	17	e18	e18	19	31	184	295	87	60	49
10	18	17	19	e18	e18	20	30	179	257	97	70	53
11	17	17	19	18	18	22	29	171	216	95	66	49
12	17	17	19	19	18	24	28	193	202	93	60	46
13	17	17	18	e19	e18	25	28	256	192	90	59	45
14	17	17	18	e18	e21	24	28	318	192	88	56	44
15	17	17	e18	e17	e18	25	29	338	193	83	52	47
16	17	17	e17	e17	17	25	31	353	174	83	43	43
17	17	16	e17	e16	17	25	33	339	163	81	42	41
18	17	18	e17	e17	17	27	39	373	158	80	41	42
19	17	18	e16	e17	e17	29	49	331	160	83	42	46
20	e17	18	e17	18	18	33	56	311	160	82	40	41
21	e16	18	e18	18	e18	38	64	292	154	81	38	39
22	e17	31	e18	17	e19	38	67	270	147	80	39	36
23	18	23	e18	17	e19	40	72	276	138	83	39	33
24	18	20	e17	18	e18	40	61	308	127	79	39	35
25	18	21	e17	17	e18	37	55	296	119	77	37	36
26	18	19	e17	18	e18	36	52	239	e109	76	e35	45
27	18	e19	18	18	18	37	57	221	98	78	e34	42
28	19	e19	17	18	e18	39	70	222	104	87	35	39
29	19	20	17	19	---	40	97	254	102	89	40	36
30	18	e18	17	e18	---	40	120	310	98	81	35	36
31	18	---	17	18	---	41	---	362	---	76	34	---
TOTAL	551	555	539	562	503	872	1402	7426	5930	2671	1581	1274
MEAN	17.8	18.5	17.4	18.1	18.0	28.1	46.7	240	198	86.2	51.0	42.5
MAX	20	31	19	22	21	41	120	373	406	100	74	53
MIN	16	16	16	16	17	18	28	96	98	76	34	33
AC-FT	1090	1100	1070	1110	998	1730	2780	14730	11760	5300	3140	2530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1997, BY WATER YEAR (WY)

	1915	1984	1984	1942	1984	1916	1943	1984	1983	1983	1983	1983
MEAN	23.5	21.6	19.4	18.2	18.9	22.7	54.1	170	153	63.1	36.8	25.9
MAX	41.5	47.0	37.7	27.0	27.9	44.9	117	409	638	198	98.0	63.3
(WY)	1915	1984	1984	1942	1984	1916	1943	1984	1983	1983	1983	1983
MIN	13.3	11.7	9.95	9.96	11.4	12.9	18.6	25.7	24.1	14.9	11.8	10.7
(WY)	1978	1978	1977	1977	1977	1977	1975	1977	1934	1977	1977	1977

SUMMARY STATISTICS

	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1915 - 1997
ANNUAL TOTAL	12529	23866	
ANNUAL MEAN	34.2	65.4	52.4
HIGHEST ANNUAL MEAN			119
LOWEST ANNUAL MEAN			16.1
HIGHEST DAILY MEAN	137	406	884
LOWEST DAILY MEAN	16	16	7.2
ANNUAL SEVEN-DAY MINIMUM	17	17	8.4
ANNUAL RUNOFF (AC-FT)	24850	47340	37950
10 PERCENT EXCEEDS	79	181	117
50 PERCENT EXCEEDS	22	33	25
90 PERCENT EXCEEDS	17	17	15

e Estimated

BEAVER RIVER BASIN

251

10237000 BEAVER RIVER AT ADAMSVILLE, UT

LOCATION.--Lat 38°15'13", long 112°45'56", in NE¹/₄SW¹/₄SW¹/₄ sec. 28, T. 29 S., R. 8 W., Beaver County, Hydrologic Unit 16030007, at right upstream corner of bridge on State Highway 21, 1.6 mi upstream from Indian Creek, and 1.6 mi east of Adamsville.

DRAINAGE AREA.--303 mi².

PERIOD OF RECORD.--December 1913 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Crest-stage gage since Nov. 23, 1994. Elevation of gage is 5,550 ft above sea level, from topographic map. Prior to Sept. 15, 1936, water-stage recorder and Sept. 15, 1936, to Oct. 15, 1937, nonrecording gage, at site 1.2 mi downstream at different datum. Oct. 16, 1937, to May 28, 1946, water-stage recorder at site 1.3 mi downstream at different datum. May 29, 1946, to Mar. 19, 1970, at site 1.8 mi downstream at different datum. Mar. 19, 1970, to July 25, 1979 at site 400 ft downstream at different datum. July 26, 1979, to Feb. 5, 1992, at site 50 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, and those for discharges less than 2.0 ft³/s, which are poor. One small diversion between station and Minersville Reservoir. Several ditches above station divert most of flow during irrigation season to supply Adamsville and Beaver irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,870 ft³/s June 6, 1995, gage height 5.52 ft, from rating curve extended above 1,000 ft³/s; no flow during summer and fall months in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 339 ft³/s June 1, gage height, 4.58 ft; minimum daily discharge, 0.27 ft³/s Oct. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.28	22	29	64	31	29	33	35	310	4.2	11	6.2
2	e.28	25	26	34	30	32	27	24	259	4.6	9.5	5.8
3	e.31	30	25	31	30	32	25	17	207	4.1	13	19
4	e.32	31	27	35	e30	32	21	15	180	3.9	32	41
5	.31	31	25	33	e28	30	21	22	163	3.8	21	23
6	.33	31	29	27	e28	32	22	38	137	4.0	12	35
7	.27	27	28	28	e31	31	23	65	113	3.9	9.6	34
8	.30	30	26	28	e31	31	22	63	119	4.2	8.2	32
9	.32	30	26	27	e31	30	31	70	200	4.4	8.0	43
10	.36	30	38	e26	e31	30	29	64	209	3.7	18	38
11	.38	29	31	e26	e31	30	27	61	154	3.7	23	42
12	.42	29	27	e27	e35	32	24	66	115	3.8	18	33
13	.49	28	25	27	e35	32	23	92	107	3.8	16	29
14	.56	29	23	27	e37	32	22	136	126	4.2	14	27
15	1.1	28	24	27	32	32	18	151	190	3.9	14	26
16	1.6	28	23	30	31	31	17	203	127	3.9	13	26
17	1.6	28	20	30	31	31	8.7	211	95	3.8	9.1	25
18	1.9	30	e20	33	31	30	3.4	247	80	3.4	7.0	33
19	3.6	29	e22	e33	31	33	3.1	268	58	3.1	6.0	39
20	7.4	29	e22	e35	31	36	3.9	239	47	3.1	5.5	32
21	9.1	27	23	35	30	38	7.5	192	45	3.5	5.0	32
22	11	47	24	33	31	39	17	168	48	4.5	5.7	30
23	13	42	25	31	32	40	36	172	39	9.4	6.3	27
24	14	33	23	30	31	40	46	218	29	8.7	5.6	26
25	16	31	24	30	32	39	29	256	20	6.7	5.0	27
26	17	29	26	30	33	38	20	172	12	5.4	4.9	34
27	17	25	25	32	32	40	23	128	10	5.1	4.6	39
28	18	25	26	31	34	41	19	114	7.6	12	4.6	42
29	20	27	30	32	---	41	24	117	5.7	18	5.3	39
30	20	29	26	32	---	39	33	145	4.5	9.8	5.9	38
31	19	---	30	32	---	40	---	229	---	11	5.7	---
TOTAL	196.23	889	798	976	881	1063	658.6	3998	3216.8	171.6	326.5	923.0
MEAN	6.33	29.6	25.7	31.5	31.5	34.3	22.0	129	107	5.54	10.5	30.8
MAX	20	47	38	64	37	41	46	268	310	18	32	43
MIN	.27	22	20	26	28	29	3.1	15	4.5	3.1	4.6	5.8
AC-FT	389	1760	1580	1940	1750	2110	1310	7930	6380	340	648	1830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915-36, 1938-97, BY WATER YEAR (WY)

	MEAN	19.0	41.0	41.3	39.0	43.0	43.3	31.0	75.4	83.4	15.7	15.0	11.0
MAX	66.9	70.1	62.7	65.6	65.5	85.8	144	622	1113	134	136	49.6	
(WY)	1984	1983	1985	1969	1930	1916	1984	1984	1983	1983	1936	1936	
MIN	.000	18.0	18.9	19.1	21.5	22.3	1.93	.32	.000	.000	.000	.000	
(WY)	1932	1991	1991	1973	1935	1935	1935	1934	1934	1934	1931	1924	

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1915-36, 1938-97

ANNUAL TOTAL	5967.39	14097.73	
ANNUAL MEAN	16.3	38.6	38.1
HIGHEST ANNUAL MEAN			180
LOWEST ANNUAL MEAN			9.83
HIGHEST DAILY MEAN	51	310	1700
LOWEST DAILY MEAN	.20	.27	.00
ANNUAL SEVEN-DAY MINIMUM	.21	.30	.00
ANNUAL RUNOFF (AC-FT)	11840	27960	27600
10 PERCENT EXCEEDS	42	85	59
50 PERCENT EXCEEDS	3.3	28	30
90 PERCENT EXCEEDS	.29	4.0	.70

e Estimated

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. Elevation of gage is 5,400 ft above sea level, from topographic map. Prior to June 1, 1916, at site 1,500 ft upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. One small diversion between dam and station. Flow regulated by Minersville Reservoir (formerly published as Rockyford Reservoir). Numerous diversions for irrigation and municipal use upstream from reservoir.

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, 171 ft³/s June 28, gage height, 1.91 ft; minimum daily discharge 3.3 ft³/s Nov. 8, 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	4.0	4.2	4.4	4.9	4.9	6.0	5.8	89	165	39	95
2	4.4	3.8	4.1	4.4	4.9	4.9	6.0	6.7	90	162	35	73
3	4.6	3.7	4.0	4.6	4.9	4.9	6.0	50	92	159	38	77
4	4.8	3.7	4.0	4.4	4.9	5.0	6.2	71	99	156	37	83
5	4.9	3.7	4.2	4.4	4.9	5.2	6.1	98	94	153	33	84
6	4.7	3.7	4.3	4.4	4.8	5.3	6.2	95	96	151	32	86
7	4.4	3.5	4.0	4.4	4.9	5.3	6.5	93	77	148	35	69
8	4.3	3.3	4.0	4.4	4.8	5.3	6.6	98	66	145	49	59
9	4.0	3.3	4.1	4.4	4.4	5.3	6.3	110	61	142	49	58
10	4.0	3.5	4.5	4.4	4.4	5.3	6.1	104	46	143	63	59
11	3.9	3.7	4.1	4.4	4.4	5.5	5.8	91	46	142	55	48
12	4.0	3.7	4.1	4.4	4.4	5.5	6.0	89	45	138	47	42
13	4.0	3.7	4.2	4.4	4.4	5.4	5.8	89	41	133	53	42
14	4.0	3.7	4.2	4.3	4.7	5.4	5.8	89	40	135	63	42
15	4.1	3.7	4.0	4.3	4.9	5.4	5.8	92	33	136	72	43
16	4.4	3.7	4.1	4.4	4.9	5.5	5.7	94	33	131	74	44
17	4.4	3.7	4.0	4.3	4.9	5.5	5.8	97	29	138	87	44
18	4.3	3.7	4.0	4.2	4.9	5.6	5.7	97	26	140	89	31
19	4.4	3.7	4.0	4.3	4.9	5.7	5.8	108	27	133	96	32
20	4.2	3.7	4.0	4.4	4.9	5.7	5.8	108	28	126	95	20
21	4.0	3.7	4.0	4.4	4.9	5.6	6.1	107	38	120	94	6.0
22	4.0	4.2	4.1	4.4	4.9	5.7	6.1	108	46	123	93	5.7
23	4.0	4.0	4.0	4.4	4.9	5.6	6.3	105	78	121	92	5.9
24	3.9	3.9	4.0	4.4	4.9	5.5	6.1	92	88	124	91	6.0
25	4.0	3.7	4.2	4.4	4.9	5.3	5.8	85	116	114	92	6.1
26	4.0	3.9	4.4	4.4	4.9	5.7	5.7	86	131	89	99	6.2
27	4.0	4.0	4.4	4.9	5.3	5.8	5.8	86	150	88	98	6.1
28	4.0	4.1	4.4	5.1	5.2	5.8	5.8	89	169	50	99	6.0
29	4.0	4.4	4.4	4.9	---	5.9	5.8	88	168	42	98	5.9
30	4.0	4.3	4.4	4.9	---	6.0	5.8	89	167	42	99	6.0
31	4.0	---	4.4	4.9	---	6.0	---	89	---	42	99	---

TOTAL	129.8	113.4	128.8	138.7	135.0	169.5	179.3	2709.5	2309	3831	2195	1190.9
MEAN	4.19	3.78	4.15	4.47	4.82	5.47	5.98	87.4	77.0	124	70.8	39.7
MAX	4.9	4.4	4.5	5.1	5.3	6.0	6.6	110	169	165	99	95
MIN	3.9	3.3	4.0	4.2	4.4	4.9	5.7	5.8	26	42	32	5.7
AC-FT	257	225	255	275	268	336	356	5370	4580	7600	4350	2360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915-36, 1938-97, BY WATER YEAR (WY)

MEAN	12.2	10.2	11.0	11.4	11.2	15.2	28.4	96.9	108	83.8	65.5	34.1
MAX	57.8	51.9	97.8	121	55.8	76.7	196	457	926	215	143	104
(WY)	1938	1984	1942	1984	1985	1983	1984	1984	1983	1983	1986	1983
MIN	2.85	3.19	2.67	2.95	3.54	4.69	5.98	27.8	21.0	7.84	7.61	4.59
(WY)	1977	1978	1978	1978	1978	1978	1997	1977	1919	1919	1919	1956

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1915-36, 1938-97

ANNUAL TOTAL	13351.7	13229.9	40.5
ANNUAL MEAN	36.5	36.2	163
HIGHEST ANNUAL MEAN			12.6
LOWEST ANNUAL MEAN			1983
HIGHEST DAILY MEAN	125	169	1210
LOWEST DAILY MEAN	3.3	3.3	1.3
ANNUAL SEVEN-DAY MINIMUM	3.5	3.5	1.5
ANNUAL RUNOFF (AC-FT)	26480	26240	29320
10 PERCENT EXCEEDS	95	106	102
50 PERCENT EXCEEDS	11	5.8	14
90 PERCENT EXCEEDS	4.0	4.0	4.5

e Estimated

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, 1.2 mi east of Cedar City, and 3.7 mi downstream 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. Crest-stage gage since Aug. 1, 1989. Concrete control since July 1972, rebuilt July 29, 1988. Elevation of gage is 6,000 ft above sea level, 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 those for estimated daily discharges, which are poor. No diversion above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft³/s July 23, 1969, gage height, 11.67 ft from flood-mark, 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)
Sept. 26	0440	a*532	*6.81				

a From rating curve extended above 420 ft³/s on basis of slope-area measurement.
Minimum recorded discharge, 8.1 ft³/s Dec. 22, but could have been less during period of estimated record in Dec., Jan., or Feb.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e9.0	e11	12	12	e13	e10	34	111	e47	14	11	e10
2	e9.0	e11	12	12	e13	e11	28	96	46	14	11	e11
3	e10	e12	e11	42	e13	e12	29	111	43	14	11	e13
4	e9.0	e13	e12	19	e12	e11	27	122	40	13	22	e130
5	e9.0	e14	13	13	e12	e11	25	138	39	13	14	e20
6	e9.0	e13	13	e12	e11	e12	23	165	36	13	11	e15
7	e9.0	e13	12	e12	e10	e12	23	177	33	e14	11	e12
8	e9.0	e13	12	e12	e11	e13	23	130	34	e14	11	e11
9	e9.0	13	14	12	e11	e13	25	115	33	e13	21	e100
10	e9.0	13	15	13	e11	e14	24	105	31	e12	85	e20
11	e9.0	12	13	13	e12	e15	24	105	27	12	14	e12
12	e9.0	12	13	12	e12	e15	24	113	26	12	14	e10
13	e9.0	11	13	12	e11	e14	23	115	28	12	12	e10
14	e10	11	12	e11	e10	e16	31	115	34	11	11	e10
15	e10	11	e8.3	e11	e11	e16	39	104	36	11	10	e80
16	e10	10	e12	e11	e11	e18	44	94	31	11	10	e16
17	e9.0	10	e11	e10	e12	20	50	90	26	11	10	12
18	e10	11	e10	e12	e12	28	59	87	24	11	10	12
19	e10	11	e9.0	13	e12	35	73	84	22	11	10	11
20	e10	11	e10	16	e12	39	82	85	21	11	10	10
21	e10	12	e10	13	e11	36	101	79	21	11	9.8	10
22	e10	102	10	12	e11	33	109	72	20	11	e9.7	9.8
23	e10	30	11	13	e11	32	103	65	19	11	e10	9.6
24	e10	18	e11	12	e10	29	75	74	18	11	e10	9.6
25	e11	18	11	12	e10	24	64	66	17	11	e10	10
26	e10	14	11	13	e11	28	75	57	16	11	e10	158
27	e11	10	11	13	e12	33	103	53	16	17	e10	33
28	e11	13	12	12	e11	41	120	e52	16	14	e10	22
29	e11	13	11	e12	---	43	128	e51	15	13	e10	21
30	e11	12	11	e11	---	36	118	e50	14	12	e10	22
31	e11	---	12	e12	---	36	---	e48	---	12	e10	---
TOTAL	303.0	478	358.3	415	319	706	1706	2929	829	381	428.5	830.0
MEAN	9.77	15.9	11.6	13.4	11.4	22.8	56.9	94.5	27.6	12.3	13.8	27.7
MAX	11	102	15	42	13	43	128	177	47	17	85	158
MIN	9.0	10	8.3	10	10	10	23	48	14	11	9.7	9.6
AC-FT	601	948	711	823	633	1400	3380	5810	1640	756	850	1650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1997, BY WATER YEAR (WY)

	12.4	11.4	10.2	9.96	11.8	18.0	55.9	144	69.6	22.2	17.3	13.6
MEAN	12.4	11.4	10.2	9.96	11.8	18.0	55.9	144	69.6	22.2	17.3	13.6
MAX	38.4	24.1	21.3	17.7	18.6	39.5	140	489	428	69.9	59.7	37.1
(WY)	1973	1988	1984	1984	1947	1995	1985	1973	1983	1983	1968	1967
MIN	6.17	5.95	5.78	6.41	7.40	9.10	17.1	19.0	11.6	7.61	5.94	6.33
(WY)	1991	1978	1991	1951	1960	1951	1975	1977	1989	1959	1960	1956

SUMMARY STATISTICS

FOR 1996 CALENDAR YEAR

FOR 1997 WATER YEAR

WATER YEARS 1939 - 1997

ANNUAL TOTAL	6158.7	9682.8	
ANNUAL MEAN	16.8	26.5	
HIGHEST ANNUAL MEAN			33.2
LOWEST ANNUAL MEAN			86.0
HIGHEST DAILY MEAN	102	Nov 22	1983
LOWEST DAILY MEAN	8.0	Aug 20	1977
ANNUAL SEVEN-DAY MINIMUM	8.1	Aug 17	1080
ANNUAL RUNOFF (AC-FT)	12220	19210	24020
10 PERCENT EXCEEDS	31	75	75
50 PERCENT EXCEEDS	12	12	13
90 PERCENT EXCEEDS	8.5	10	7

e Estimated

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1997

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
WEBER RIVER BASIN						
10132500 Lost Creek	Weber River	Lat 41°10'35", long 111°24'20" Morgan County, 9.5 mi north- east of Croydon.	133	1922* 1942-67* 1988-89 1993-94 1994-95 1995-96	11-21-96 04-16-97 05-13-97 08-28-97	11.5 71.7 10.4 21.3
GREEN RIVER BASIN						
09301500 Uintah River at Randlett	Duchesne R.	Lat 40°14'01", long 109°48'11"	557	1941 1947-51 1954-59 1965-70 1973 1977-81	04-06-97 05-13-97 05-20-97 06-06-97 06-25-97 08-05-97	473 973 841 1120 152 215
09301700 Duchesne River abv confluence of the Uintah R. near Randlett	Green River	Lat 40°12'24", long 109°51'33"	unknown		04-06-97 05-13-97 05-20-97 06-06-97 06-25-97 08-05-97	133 175 1650 2300 651 882
09314500 Price River at Woodside	Green River	Lat 39°15'50", long 110°20'45" Emery County	1,540	1945-92* 1994-96	09-22-96 04-08-97 06-03-97 08-14-97 09-05-97	95.7 (e)225 (e)600 (e)350 (e)400
SEVIER LAKE BASIN						
391523111371600 Manti Creek	Sevier River	Lat 39°15'23", long 111°37'16" Sanpete County Above diversion	—	—	02-25-97 07-15-97	4.98 31.0
		Below diversion			02-25-97 07-15-97	0.392 10.4

* Operated as a continuous gaging station.

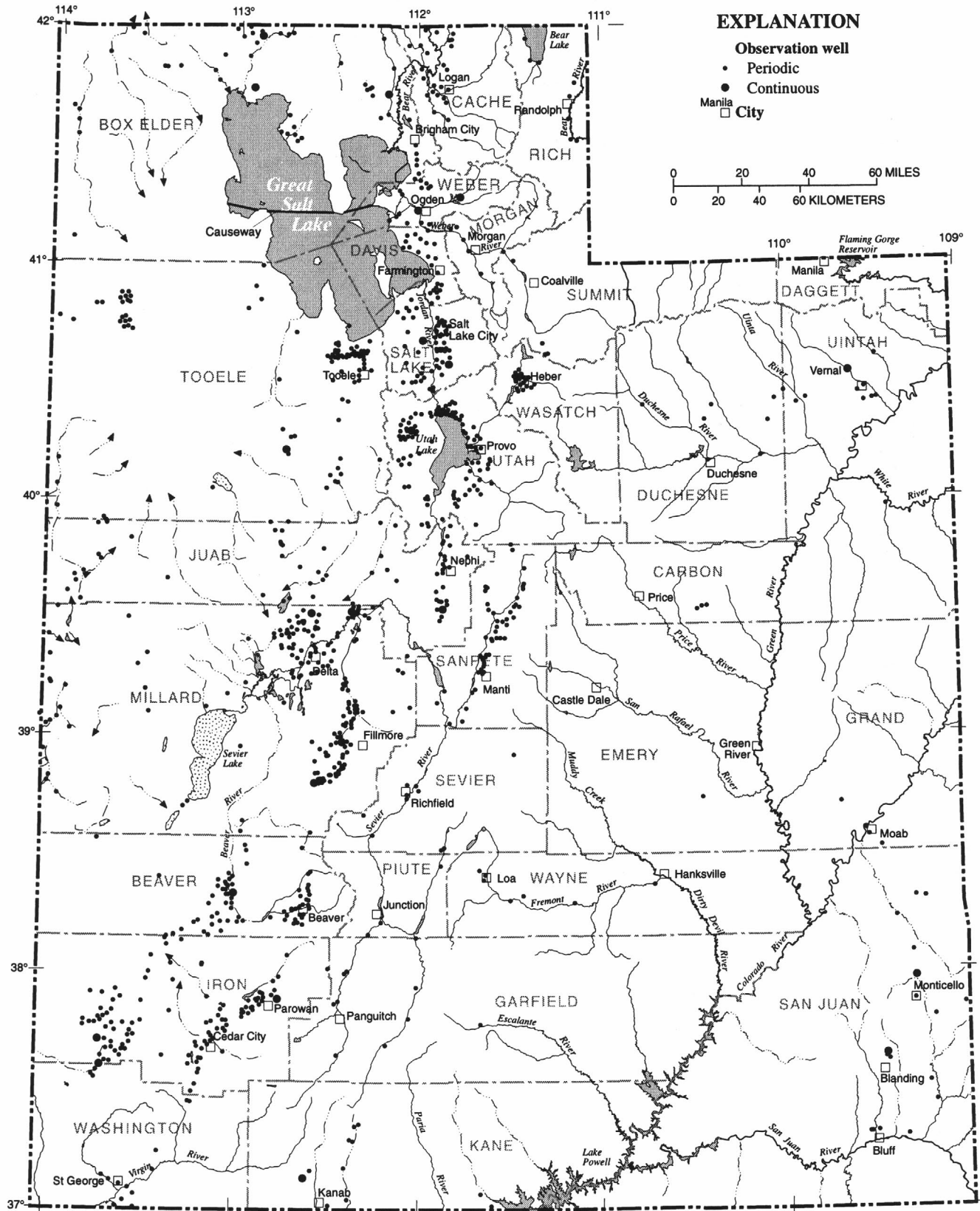


Figure 10. Locations of observation wells in Utah where data were obtained on ground-water levels.

GROUND-WATER LEVELS

BEAVER COUNTY

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., hole depth 360 ft, cased to 60 ft.

DATUM.--Elevation of land-surface datum is 5,019 ft above sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Records good, except for estimated day, which is fair.

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, 69.98 ft below land-surface datum, September 9, 1997.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	51.26	49.07	48.05	47.58	47.23	47.09	46.81	55.05	68.96	67.61	64.94	69.61
10	53.48	48.79	47.96	47.50	47.21	47.05	46.81	60.00	65.08	69.00	64.26	68.47
15	52.55	48.54	e47.90	47.47	47.21	47.00	46.88	63.96	60.99	68.80	63.18	63.66
20	52.13	48.44	47.78	47.40	47.14	47.01	47.21	65.81	59.12	69.01	65.02	59.44
25	50.99	48.33	47.71	47.32	47.09	46.92	51.46	67.34	61.30	68.11	67.07	56.55
EOM	49.56	48.15	47.65	47.31	46.98	46.83	52.76	68.83	64.70	66.43	68.44	54.73

e Estimated

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 sea level. Measuring point: Top of casing, 0.50 ft above 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, July 27, Sep. 12, 1984; lowest, 25.77 ft below land-surface datum, May 19, 20, 1993.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.92	23.83	23.89	24.03	24.16	24.18	24.12	24.12	23.73	23.34	22.91	22.52
10	23.91	23.93	23.89	24.15	24.20	24.24	24.13	24.13	23.67	23.26	22.78	22.46
15	23.87	23.85	23.98	24.10	24.22	24.20	24.17	24.08	23.55	23.15	22.67	22.37
20	23.82	23.83	24.06	24.21	24.19	24.25	24.17	23.99	23.48	23.07	22.64	22.32
25	23.76	23.86	24.00	24.12	24.23	24.21	24.11	23.89	23.46	23.03	22.60	22.29
EOM	23.79	23.89	23.99	24.18	24.10	24.17	24.11	23.86	23.33	22.99	22.52	22.25

414411112543701. LOCAL NUMBER, (B-12-9)30cda-1.

LOCATION.--Lat 41°44'11", long 112°54'37", Hydrologic Unit 16020309.

Owner: 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 sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.

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

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.08 ft below land-surface datum, May 25, 31, July 25, 1987; lowest, 25.86 ft below land-surface datum, Nov. 11, 1992.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.52	25.61	25.55	25.49	25.38	25.29	e25.15	25.07	e25.09	e25.21	25.33	25.41
10	25.49	25.60	25.54	25.45	25.37	e25.25	e25.14	25.07	e25.11	25.19	25.35	e25.46
15	25.49	25.56	25.56	25.47	25.36	e25.22	e25.13	25.07	e25.13	25.22	25.35	e25.50
20	25.54	25.57	25.50	25.42	25.33	e25.19	e25.10	25.05	e25.15	25.22	25.36	e25.55
25	25.53	25.56	25.50	25.38	25.29	e25.22	25.13	25.07	e25.17	25.25	25.38	25.57
EOM	25.59	25.57	25.50	25.38	25.27	25.14	25.07	25.06	e25.19	25.28	e25.39	25.59

e Estimated

GROUND-WATER LEVELS
BOX ELDER COUNTY--Continued

257

415703112514501. LOCAL NUMBER, (B-14-9)9add-1.

LOCATION.--Lat 41°57'03", long 112°51'45", Hydrologic Unit 16020309.

Owner: Cyprus Farms Inc.

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 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, 160.12 ft below land-surface datum, Apr. 16, 1988; lowest, 180.60 ft below land-surface datum, July 29, 1996.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	174.33	170.43	168.19	167.17	166.42	166.09	165.47	169.27	176.05	178.72	177.02	179.84
10	173.28	169.92	167.97	166.89	166.31	165.92	165.48	170.88	176.88	179.10	177.90	179.78
15	173.02	169.26	168.01	167.01	166.34	165.73	165.57	172.52	177.25	179.70	178.21	179.68
20	172.53	169.28	167.42	166.57	166.16	165.78	165.48	173.97	177.09	180.09	178.90	179.46
25	171.46	169.11	167.38	166.39	165.96	165.83	166.44	175.12	177.66	179.46	179.46	177.83
EOM	170.98	168.74	167.32	166.42	165.75	165.49	167.88	174.39	178.06	176.62	179.92	177.61

IRON COUNTY

375241112471001. LOCAL NUMBER, (C-34-8)5bca-1.

LOCATION.--Lat 37°52'41", long 112°47'20" (revised), Hydrologic Unit 16030006.

Owner: Paragonah Canal Company.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 420 ft.

DATUM.--Elevation of land-surface datum is 5,802 ft above 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, 56.20 ft below land-surface datum, Apr. 14, 1995.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.29	49.88	e50.9	e51.1	51.20	50.68	50.51	50.46	47.99	47.69	47.23	48.23
10	49.26	49.97	e50.9	51.09	51.19	50.54	50.52	50.34	47.79	47.76	47.66	48.20
15	49.36	49.98	e51.0	51.25	51.16	50.50	50.63	50.13	47.13	47.87	47.68	48.13
20	49.60	50.22	e51.0	51.14	51.04	50.51	50.63	49.61	47.10	47.89	47.83	48.04
25	49.56	50.81	e51.0	51.17	50.80	50.59	50.65	49.08	47.35	47.77	47.98	48.08
EOM	49.70	e50.9	e51.1	51.21	50.68	50.48	50.47	48.47	47.44	47.79	48.19	48.32

e Estimated

374252113391801. LOCAL NUMBER, (C-35-16)33bcc-1.

LOCATION.--Lat 37°42'52", long 113°39'18", Hydrologic Unit 16030006.

OWNER.--Charles F. Twitchell

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused irrigation water-table well, diameter 16 in., cased to 160 ft.

DATUM.--Elevation of land-surface datum is 5,175.11 ft above sea level. Measuring point: Top of casing, 0.55 ft above land-surface datum.

REMARKS.--There are several nearby pumped wells. Records good.

PERIOD OF RECORD.--September 1947 to 1953, 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.06 ft below land-surface datum, Sept. 11, 1947; lowest, 126.54 ft below land-surface datum, Sept. 2, 1997.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	121.90	119.87	118.33	117.26	116.35	115.54	114.89	116.40	120.76	122.87	123.82	125.73
10	121.89	119.60	118.20	117.02	116.19	115.29	114.72	117.40	120.68	123.55	123.82	124.82
15	121.29	119.26	118.01	117.07	116.11	115.15	114.64	118.40	120.29	124.15	123.74	124.25
20	121.03	119.14	117.70	116.73	115.82	115.00	114.81	119.06	119.92	124.52	124.92	123.89
25	120.37	118.89	117.53	116.61	115.61	115.06	115.14	119.68	120.35	124.01	125.55	123.41
EOM	120.16	118.75	117.47	116.45	115.58	114.87	115.50	120.08	121.70	123.37	126.30	123.08

GROUND-WATER LEVELS
IRON COUNTY--Continued

373735113393801. LOCAL NUMBER, (C-36-16)29daa-1.

LOCATION.--Lat 37°37'35", long 113°39'38", Hydrologic Unit 16030006.

Owner: George Gardner.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 14 in., cased to 380 ft.

DATUM.--Land-surface datum is 5,233.36 ft above sea level. Measuring point: Top of casing, 1.50 ft above land-surface datum.

REMARKS.--There are several nearby pumped wells. No estimated daily values. Records good.

PERIOD OF RECORD.--October 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 167.63 ft below land-surface datum, Apr. 12, 1990; lowest, 193.50 ft below land-surface datum, July 9, 1997.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	185.41	183.51	181.99	180.94	179.97	179.38	178.11	182.53	187.86	192.48	188.90	189.57
10	185.15	183.23	181.80	180.65	179.83	179.01	178.03	185.80	184.68	190.67	189.98	188.62
15	184.83	182.71	181.89	180.90	179.87	178.76	178.08	186.49	186.36	191.03	190.26	188.19
20	184.45	182.82	181.27	180.29	179.50	178.64	178.30	185.47	186.53	190.08	191.70	187.79
25	183.86	182.69	181.27	180.25	179.25	178.71	178.35	185.72	189.56	190.95	192.12	187.32
EOM	183.71	182.34	181.24	180.08	178.95	178.23	180.74	186.14	191.17	190.52	192.43	187.05

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. Mangelson.

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 sea level. Measuring point: Top of casing, 1.50 ft above land-surface datum.

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

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 recorded, 71.51 ft below land-surface datum, Aug. 27, 1993.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	64.60	64.28	64.05	63.99	63.78	63.66	63.24	62.91	62.91	62.91	63.36	63.49
10	64.70	64.27	64.05	63.95	63.76	63.56	63.18	62.87	63.01	63.24	63.27	63.41
15	64.60	64.15	64.13	64.01	63.78	63.47	63.20	62.95	62.94	63.24	62.84	62.92
20	64.44	64.18	63.96	63.87	63.68	63.44	63.12	62.97	62.77	63.27	63.25	62.82
25	64.27	64.21	63.99	63.83	63.61	63.45	63.05	62.91	62.62	63.31	63.36	62.66
EOM	64.31	64.17	64.03	63.80	63.51	63.25	62.92	62.99	62.65	63.36	63.55	62.50

e Estimated

KANE COUNTY

99370915112341301. LOCAL NUMBER, (C-42-6)18cca-1

LOCATION.--Lat 37°09'15", long 112°34'13", Hydrologic Unit 15010003.

Owner: Kanab City.

AQUIFER.--Navajo Sandstone (revised).

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 10 in., open hole from 18 ft to 560 ft.

DATUM.--Land-surface datum is 5,630.00 ft above sea level. Measuring point: Top of casing, 1.6 ft above land-surface datum.

REMARKS.--Records good. Previously reported as 19baa-1, 370901112335001.

PERIOD OF RECORD.--February 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 160.51 ft below land-surface datum, Jan. 18, 1988; lowest, 167.40 ft below land-surface datum, Apr. 8, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	164.70	164.44	164.38	164.28	164.29	164.72	163.97	164.40	164.02	164.22	164.23	164.13
10	164.68	164.64	164.32	164.33	164.44	164.52	164.12	164.41	164.29	164.13	164.11	164.03
15	164.46	164.01	164.82	164.64	164.67	164.29	164.48	164.34	164.25	164.30	164.00	164.10
20	164.26	164.46	164.32	164.44	164.31	164.47	164.35	164.21	164.17	164.27	164.19	164.01
25	164.10	164.64	164.38	164.38	164.19	164.45	164.17	164.07	164.25	164.18	164.11	164.13
EOM	164.34	164.32	164.62	164.50	163.75	164.14	164.17	164.27	164.13	164.29	164.09	164.21

GROUND-WATER LEVELS
KANE COUNTY--Continued

259

370650112331002 . LOCAL NUMBER, (C-42-6)32cba-2.

LOCATION.--Lat 37°06'50", long 112°33'10" (revised), Hydrologic Unit 15010003.

Owner: Kanab City.

AQUIFER.--Navajo Sandstone.

WELL CHARACTERISTICS.--Drilled well, diameter 6 in., cased to 230 ft.

DATUM.--Elevation of land-surface datum is 5,180.00 ft above sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.

REMARKS.--Records good. Formerly published as 370523112334702, (C-42-6)30dcc-2.

PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 53.30 ft below land-surface datum, Apr. 25, 1986; lowest, 69.33 ft below land-surface datum, Sept. 13, 1996.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	66.71	66.85	67.70	68.18	68.58	68.85	68.69	68.30	68.99	67.35	68.14	69.10
10	66.30	67.12	67.79	68.23	68.64	68.85	68.18	68.15	68.62	67.52	68.39	69.16
15	66.01	67.27	67.90	68.35	68.72	68.65	67.87	68.23	68.17	68.00	68.50	69.22
20	65.79	67.42	67.94	68.38	68.64	68.63	68.24	68.53	67.83	68.29	68.75	68.63
25	66.21	67.53	68.01	68.45	68.65	68.79	68.52	68.76	67.83	67.80	68.90	68.25
EOM	66.49	67.66	68.13	68.52	68.72	68.93	68.74	68.92	67.59	67.72	69.03	67.99

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.--Elevation of land-surface datum is 4,780 ft above 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, 99.03 ft below land-surface datum, Apr. 2, 1986; lowest, 174.62 ft below land-surface datum, Aug. 24, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	116.38	115.22	114.57	114.33	114.08	113.23	112.25	111.88	111.69	111.88	111.98	112.39
10	115.95	115.35	114.60	114.35	113.80	112.85	112.15	111.93	111.54	111.94	112.10	112.49
15	115.70	115.11	114.73	114.34	113.83	112.69	112.28	111.86	111.56	112.13	112.14	112.37
20	115.55	115.02	114.45	114.27	113.63	112.62	112.05	111.81	111.54	112.08	112.00	112.46
25	115.22	115.10	114.45	114.19	113.20	112.45	112.01	111.79	111.58	111.94	112.32	112.44
EOM	115.38	114.86	114.38	114.17	112.96	112.24	111.93	111.77	111.68	111.95	112.33	112.28

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.--Elevation of land-surface datum is 4,629 ft above 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, 7.57 ft below land-surface datum, Mar. 3, 1989; lowest, 15.91 ft below land-surface datum, Oct. 16, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.73	10.71	10.49	10.35	10.11	9.91	9.55	9.45	9.53	9.75	10.19	10.34
10	10.75	10.71	10.44	10.33	10.09	9.82	9.49	9.47	9.53	9.79	10.18	10.36
15	10.74	10.62	10.54	10.29	10.09	9.75	9.53	9.45	9.52	9.90	10.19	10.43
20	10.75	10.66	10.39	10.21	9.99	9.74	9.50	9.44	9.53	9.96	10.28	10.45
25	10.69	10.64	10.43	10.15	9.91	9.73	9.45	9.43	9.63	10.04	10.30	10.45
EOM	10.72	10.58	10.44	10.18	9.78	9.58	9.43	9.51	9.63	10.14	10.33	10.41

GROUND-WATER LEVELS
MILLARD COUNTY--Continued

385844112245801. LOCAL NUMBER, (C-21-5)21aba-1.

LOCATION.--Lat 38°58'44", long 112°24'58", Hydrologic Unit 16030005.

Owner: Delyle Carling.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., hole depth 246 ft, cased to 220 ft.

DATUM.--Elevation of land-surface datum is 4,744.44 ft above sea level. Measuring point: Top of casing, 0.50 ft above land-surface datum.

REMARKS.--Records good except for one estimated day, which is poor.

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 LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	39.74	39.28	38.90	e38.8	38.33	37.94	37.69	41.37	40.34	38.59	38.78	39.48
10	39.63	39.28	38.92	38.49	38.19	37.84	38.30	42.24	38.88	38.25	38.84	38.92
15	39.44	39.04	39.12	38.80	38.20	37.71	38.84	42.59	37.72	37.91	38.71	38.34
20	39.53	39.19	38.86	38.49	38.02	37.62	40.24	42.88	37.65	38.12	38.38	38.40
25	39.16	39.26	38.89	38.37	37.72	37.64	40.66	42.69	38.52	38.60	38.54	38.18
EOM	39.26	39.20	38.97	38.33	37.62	37.41	41.27	41.56	38.59	38.87	39.32	38.00

e Estimated

384906112330601. LOCAL NUMBER, (C-23-6)17baa-1.

LOCATION.--Lat 38°49'06", long 112°33'06", Hydrologic Unit 16030008 (revised).

Owner: Brandon George

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 18 in., drilled to depth of 262 ft, cased to 140 ft.

DATUM.--Elevation of land-surface datum is 4,710 ft (revised) above sea level. Measuring point: Top of casing, 2.0 ft above land-surface datum.

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

PERIOD OF RECORD.--June 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 27.20 ft below land-surface datum, Mar. 3, 1989; lowest, 54.03 ft below land-surface datum, Sept. 6, 1979.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.83	37.72	37.15	36.97	36.80	36.71	36.43	36.86	38.19	38.14	38.23	38.61
10	38.53	37.63	37.15	36.89	36.77	36.59	36.36	37.15	37.95	38.30	38.08	38.39
15	38.25	37.44	37.21	37.04	36.81	36.51	36.43	37.81	37.59	38.51	38.24	38.05
20	38.19	37.47	36.98	36.81	36.69	36.49	36.49	38.06	37.87	38.53	38.62	37.97
25	37.85	37.45	37.00	36.76	36.60	36.55	36.55	37.69	37.84	38.55	37.87	37.71
EOM	37.79	37.41	37.05	36.78	36.55	36.36	36.67	38.11	38.13	38.70	38.50	37.60

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.--Elevation of land-surface datum is 4,461 ft 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 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	58.37	57.99	57.79	58.03	58.13	58.37	58.62	58.89	58.86	58.80	58.57	58.31
10	58.36	57.98	57.81	57.89	58.19	58.44	58.69	58.95	58.80	58.75	58.49	58.23
15	58.27	57.85	57.90	58.10	58.26	58.46	58.83	58.98	58.81	58.72	58.39	58.19
20	58.20	57.88	57.80	58.02	58.20	58.56	58.85	58.94	58.79	58.70	58.42	58.11
25	58.05	57.94	57.88	58.00	58.28	58.63	58.80	58.93	58.86	58.65	58.38	e58.11
EOM	58.03	57.90	57.97	58.11	58.17	58.61	58.83	58.90	58.79	58.62	58.34	e58.10

e Estimated

GROUND-WATER LEVELS
SAN JUAN COUNTY

261

375243109191301. LOCAL NUMBER, (D-33-24)30dab-1.

LOCATION.--Lat 37°52'43", 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 sea level. Measuring Point: Top of casing, 0.60 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 159.69 ft below land-surface datum, Jan. 17, 1996; lowest, 202.89 ft below land-surface datum, July 25, 1958.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	161.54	161.26	161.16	161.10	161.11	161.26	160.60	161.02	160.80	161.19	161.55	161.58
10	161.60	161.52	161.16	161.08	161.26	161.40	160.68	161.07	161.01	161.14	161.40	161.48
15	161.47	160.99	161.55	161.06	161.38	161.12	161.00	160.97	160.92	161.37	161.35	161.47
20	161.13	161.31	161.20	161.22	161.11	161.31	160.94	160.92	160.97	161.33	161.56	161.39
25	160.91	161.46	161.19	161.11	161.02	161.14	160.72	160.81	161.07	161.37	161.56	161.51
EOM	161.25	161.01	161.38	161.28	160.55	160.96	160.76	161.03	161.05	161.52	161.49	161.48

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.--Elevation of land-surface datum is 6,200 ft above sea level. Measuring point: Top of 7 in. casing, 1.00 ft above land-surface datum.

REMARKS.--Records fair.

PERIOD OF RECORD.--October 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 35.51 ft below land-surface datum, Sept. 20, 1988; lowest, 57.23 ft below land-surface datum, Oct. 20, 1960.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e45.33	e45.81	46.38	46.91	47.50	48.24	47.79	48.57	48.31	48.71	48.52	48.03
10	e45.40	e45.90	46.52	47.00	47.80	48.27	47.99	48.59	48.61	48.57	48.30	47.86
15	e45.48	e45.99	47.07	47.29	48.07	48.09	48.45	48.54	48.52	48.75	48.05	47.84
20	e45.55	e46.06	46.74	47.39	47.74	48.34	48.34	48.48	48.55	48.67	48.26	47.56
25	e45.64	e46.14	46.83	47.42	47.67	48.22	48.16	48.28	48.69	48.53	48.13	47.60
EOM	e45.74	46.02	47.20	47.67	47.20	48.07	48.24	48.59	48.58	48.65	48.01	47.48

TOOELE COUNTY

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.--Elevation of land-surface datum is 4,850 ft above sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

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

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 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	79.32	e78.44	77.67	77.29	76.89	76.64	76.27	76.03	76.20	76.57	77.84	78.26
10	79.22	e78.30	77.63	77.17	76.82	76.48	76.16	76.02	76.40	76.78	77.91	78.35
15	e78.99	e78.15	77.64	77.27	76.84	76.37	76.21	76.06	76.44	77.03	77.88	78.48
20	e78.86	e78.12	77.39	77.01	76.72	76.36	76.10	76.09	76.41	77.26	78.13	78.59
25	e78.72	78.06	77.39	76.89	76.57	76.41	76.15	76.19	76.49	77.46	78.18	78.49
EOM	e78.58	77.96	77.38	76.87	76.53	76.16	75.99	76.12	76.43	77.71	78.26	78.48

e Estimated

GROUND-WATER LEVELS

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 42 ft.

DATUM.--Land-surface datum is 5,992 ft above 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, 8.88 ft below land-surface datum, Sept. 7, 1989.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.83	6.66	6.41	6.23	6.30	6.29	6.00	6.30	6.08	6.73	6.56	6.25
10	6.83	6.76	6.28	6.40	6.28	6.20	5.90	5.89	6.15	6.79	6.64	6.29
15	6.81	6.76	6.23	6.39	6.29	5.90	6.10	5.48	6.30	6.85	6.41	6.28
20	6.78	6.67	6.41	6.35	6.27	5.52	6.23	5.46	6.37	6.91	6.45	5.92
25	6.71	6.59	6.39	6.33	6.28	5.90	6.01	5.92	6.51	6.99	6.44	5.92
EOM	6.72	6.33	6.35	6.32	6.27	6.06	6.10	6.10	6.64	6.94	6.47	5.94

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 sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Records good except for July 1 to Sep. 30, which are poor.

PERIOD OF RECORD.--December 1954 to April 1955, March 1963 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 108.25 ft below land-surface datum, May 25, 1997; lowest, 141.41 ft below land-surface datum, Aug. 15, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	108.96	108.81	108.68	108.63	108.57	108.61	108.50	108.58	108.54	108.78	109.06	108.98
10	108.95	108.88	108.65	108.64	108.60	108.63	108.46	108.56	108.55	108.86	109.03	108.98
15	108.88	108.75	108.78	108.58	108.65	108.58	108.57	108.52	108.56	108.93	109.00	108.86
20	108.84	108.74	108.65	108.61	108.59	108.64	108.56	108.50	108.42	108.97	109.05	108.89
25	108.77	108.77	108.67	108.51	108.59	108.62	108.51	108.25	108.67	109.05	109.04	108.91
EOM	108.83	108.71	108.67	108.62	108.42	108.54	108.50	108.55	108.66	109.06	109.00	108.90

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.--Elevation of land-surface datum is 4,555.03 ft above sea level. Measuring point: Top of recorder platform, 3.50 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

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, 1983, 1984; lowest, 35.29 ft below land-surface datum, Aug. 31, 1963.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.68	15.81	14.91	13.58	13.20	12.80	13.62	13.17	17.23	20.00	19.25	17.59
10	18.58	15.89	14.96	14.20	13.37	12.21	13.97	15.21	15.94	21.25	19.27	16.86
15	18.42	15.64	14.63	13.60	12.89	12.41	14.43	16.58	14.74	18.11	17.45	16.09
20	19.07	15.47	14.94	13.23	13.28	12.78	16.91	16.47	15.08	19.84	18.30	14.83
25	17.71	15.38	14.36	13.93	12.76	13.24	14.42	14.95	16.40	19.25	18.52	14.59
EOM	16.55	15.47	14.57	13.49	12.75	13.71	13.73	14.67	17.69	18.80	18.88	13.67

GROUND-WATER LEVELS
WASATCH COUNTY

263

403146111272701. LOCAL NUMBER, (D-3-4)26dba-1.

LOCATION.--Lat 40°31'46", long 111°27'27", Hydrologic Unit 16020203.

Owner: Leroy Kohler.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 48 in., depth 19 ft.

DATUM.--Elevation of land-surface datum is 5,580 ft above sea level. Measuring point: Top of wood covering well, 11.60 ft below land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1988 to August 1989, April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.22 ft below land-surface datum, July 06, 1989; lowest, 17.16 ft below land-surface datum Feb. 07, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	13.39	FEB 26, 1997	15.10	JUN 26, 1997	12.75
NOV 22, 1996	14.40	MAR 25, 1997	13.25	JUL 28, 1997	12.67
DEC 26, 1996	14.89	APR 29, 1997	14.52	AUG 21, 1997	13.07
JAN 27, 1997	15.26	MAY 28, 1997	12.93	SEP 26, 1997	12.86

403403111253501. LOCAL NUMBER, (D-3-5)7cdb-1.

LOCATION.--Lat 40°34'03", long 111°25'35", Hydrologic Unit 16020203.

Owner: Glade Givens.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 4 in., depth 88 ft.

DATUM.--Elevation of land-surface datum is 5,759 ft above sea level. Measuring point: So. edge of opening above well at east corner, 3.65 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--September 1966 to September 1968, July 1988 to July 1989, April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.05 below land-surface datum, June 28, 1993; lowest, 23.89 ft below land-surface datum, Mar. 20, 1967.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	4.64	FEB 26, 1997	3.68	JUN 26, 1997	4.02
NOV 22, 1996	2.42	MAR 25, 1997	2.59	JUL 28, 1997	4.53
DEC 26, 1996	4.28	APR 29, 1997	2.98	AUG 21, 1997	4.90
JAN 27, 1997	2.65	MAY 29, 1997	3.37	SEP 26, 1997	4.35

403325111254601. LOCAL NUMBER, (D-3-5)18cba-1.

LOCATION.--Lat 40°33'25", long 111°25'46", Hydrologic Unit 16020203.

Owner: North Orem LDS Stake.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--

DATUM.--Elevation of land-surface datum is 5,700 ft above sea level. Measuring point: Top of plug hole in cap, 2.50 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--October 1988 to August 1989, April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.87 ft below land-surface datum, May 28, 1997; lowest, 28.24 ft below land-surface datum, Aug. 02, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	13.32	FEB 26, 1997	15.87	JUN 26, 1997	10.15
NOV 22, 1996	15.54	MAR 25, 1997	14.09	JUL 28, 1997	10.61
DEC 26, 1996	15.25	APR 29, 1997	14.10	AUG 21, 1997	14.52
JAN 27, 1997	15.66	MAY 28, 1997	9.87	SEP 26, 1997	11.98

GROUND-WATER LEVELS
WASATCH COUNTY--Continued

403305111251901. LOCAL NUMBER, (D-3-5)18dcc-1.

LOCATION.--Lat 40°33'05", long 111°25'19", Hydrologic Unit 16020203.

Owner: Hugh Smith.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 8 in., depth 243 ft.

DATUM.--Elevation of land-surface datum is 5,695 ft above sea level. Measuring point: Top of casing, 2.45 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--August 1988 to August 1989, April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 87.29 ft below land-surface datum, May 28, 1997; lowest, 99.62 ft below land-surface datum, Apr. 11, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	93.31	FEB 26, 1997	97.95	JUN 26, 1997	91.65
NOV 22, 1996	97.00	MAR 25, 1997	96.16	JUL 28, 1997	90.35
DEC 27, 1996	97.84	APR 29, 1997	95.20	AUG 21, 1997	89.89
JAN 27, 1997	98.11	MAY 28, 1997	87.29	SEP 26, 1997	90.80

403243111252701. LOCAL NUMBER, (D-3-5)19bdd-2.

LOCATION.--Lat 40°32'43", long 111°25'27", Hydrologic Unit 16020203.

Owner: Melvin C. Cummings.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 5 in., depth 120 ft.

DATUM.--Elevation of land-surface datum is 5,654 ft above sea level. Measuring point: Top of casing, 1.50 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--June 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.66 ft below land-surface datum, May 10, 1994; lowest, 23.87 ft below land-surface datum, Feb. 13, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 22, 1996	18.34	MAR 25, 1997	18.49	JUL 28, 1997	16.91
DEC 26, 1996	19.59	APR 29, 1997	18.83	AUG 21, 1997	16.90
JAN 27, 1997	20.11	MAY 28, 1997	16.52	SEP 26, 1997	17.93
FEB 26, 1997	20.10	JUN 26, 1997	16.89		

403127111240301. LOCAL NUMBER, (D-3-5)29cac-1.

LOCATION.--Lat 40°31'27", long 111°24'03", Hydrologic Unit 16020203.

Owner: Leslie North.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Dug domestic water-table well, diameter 4 ft, depth 15 ft, rock lined.

DATUM.--Elevation of land-surface datum is 5,608 ft above sea level. Measuring point: Top of concrete platform, 1.0 ft above land-surface datum.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.18 ft below land-surface datum, Sept. 13, 1974; lowest, 11.14 ft below land-surface datum, Mar. 31, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	7.03	FEB 28, 1997	9.75	JUN 30, 1997	2.39
NOV 22, 1996	8.15	MAR 27, 1997	8.00	JUL 29, 1997	2.54
DEC 27, 1996	8.89	APR 30, 1997	8.78	AUG 22, 1997	1.88
JAN 31, 1997	8.73	MAY 29, 1997	6.84	SEP 29, 1997	4.37

GROUND-WATER LEVELS
WASATCH COUNTY--Continued

265

403149111255601. LOCAL NUMBER, (D-3-5)30bcc-1.

LOCATION.--Lat 40°31'49", long 111°25'56", Hydrologic Unit 16020203.

Owner: U.S. Geological Survey.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 2 in., depth 6.5 ft.

DATUM.--Elevation of land-surface datum is 5,594 ft above sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--December 1988 to August 1989, April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.21 ft below land-surface datum, June 28, 1993; lowest, 3.10 ft below land-surface datum, Oct. 24, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	2.90	FEB 25, 1997	2.16	JUN 26, 1997	.22
NOV 22, 1996	.25	MAR 25, 1997	.92	JUL 28, 1997	.25
DEC 26, 1996	1.98	APR 29, 1997	1.78	AUG 21, 1997	1.94
JAN 27, 1997	.80	MAY 28, 1997	1.20	SEP 26, 1997	1.17

403004111280301. LOCAL NUMBER, (D-4-4)2bcd-1.

LOCATION.--Lat 40°30'04", long 111°28'03", Hydrologic Unit 16020203.

Owner: Clark Partridge.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 6 in., depth 105 ft.

DATUM.--Elevation of land-surface datum is 5,500 ft above sea level. Measuring point: Top of cap on casing, 5.00 ft below land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--April 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.91 ft below land-surface datum, June 05, 1995; lowest, 51.59 ft below land-surface datum, Feb. 14, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	49.12	APR 29, 1997	50.79	AUG 21, 1997	47.17
NOV 21, 1996	50.37	MAY 28, 1997	46.96	SEP 29, 1997	46.42
FEB 04, 1997	50.97	JUN 26, 1997	47.37		
MAR 27, 1997	49.62	JUL 28, 1997	46.85		

402937111283501. LOCAL NUMBER, (D-4-4)3dcd-1.

LOCATION.--Lat 40°29'37", long 111°28'35", Hydrologic Unit 16020203.

Owner: Pride Lane Farm.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--

DATUM.--Elevation of land-surface datum is 5,475 ft above sea level. Measuring point: Top of casing, 0.41 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1988 to August 1989, May 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.12 ft below land-surface datum, July, 05 1995; lowest, 13.70 ft below land-surface datum, Jan. 10, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	11.13	FEB 26, 1997	13.43	JUN 26, 1997	9.27
NOV 22, 1996	11.94	MAR 25, 1997	12.09	JUL 28, 1997	8.81
DEC 26, 1996	12.69	APR 29, 1997	12.61	AUG 21, 1997	8.73
JAN 27, 1997	13.09	MAY 28, 1997	8.33	SEP 26, 1997	8.92

GROUND-WATER LEVELS
WASATCH COUNTY--Continued

402902111282001. LOCAL NUMBER, (D-4-4)10daa-1.

LOCATION.--Lat 40°29'02", long 111°28'20", Hydrologic Unit 16020203.

Owner: U.S. Geological Survey.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 2 in., depth 65 ft.

DATUM.--Elevation of land-surface datum is 5,430 ft above sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--November 1988 to August 1989, May 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.81 ft below land-surface datum, June 28, 1993; lowest, 3.99 ft below land-surface datum, Aug. 02, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	3.12	FEB 25, 1997	3.17	JUN 26, 1997	1.24
NOV 22, 1996	2.52	MAR 25, 1997	2.97	JUL 29, 1997	2.20
DEC 26, 1996	3.13	APR 29, 1997	3.26	AUG 21, 1997	2.70
JAN 27, 1997	2.82	MAY 28, 1997	2.46	SEP 26, 1997	2.58

402842111263101. LOCAL NUMBER, (D-4-4)12dcc-1.

LOCATION.--Lat 40°28'42", long 111°26'31", Hydrologic Unit 16020203.

Owner: Heber Valley Special Services Dist.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--

DATUM.--Elevation of land-surface datum is 5,545 ft above sea level. Measuring point: Top of concrete walkway at land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--September 1949 to October 1950, July 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.00 ft below land-surface datum, July 03, 1950; lowest, 70.31 ft below land-surface datum, Mar. 14, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	51.10	FEB 25, 1997	63.22	JUN 26, 1997	38.83
NOV 21, 1996	56.88	MAR 25, 1997	63.33	JUL 29, 1997	35.90
DEC 27, 1996	61.24	APR 29, 1997	47.41	AUG 21, 1997	40.48
JAN 27, 1997	62.37	MAY 28, 1997	36.97	SEP 26, 1997	46.69

402809111281601. LOCAL NUMBER, (D-4-4)15daa-1.

LOCATION.--Lat 40°28'09", long 111°28'16", Hydrologic Unit 16020203.

Owner: Verlo E. Kendrick.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Depth 28 ft.

DATUM.--Elevation of land-surface datum is 5,430 ft above sea level. Measuring point: Top of casing, 0.0 ft at land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July to September 1988, May 1993 to current year (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.21 ft below land-surface datum, June 28, 1993, June 19, 1996; lowest, 18.88 ft below land-surface datum, Sept. 08, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	16.33	NOV 22, 1996	16.39

GROUND-WATER LEVELS
WASATCH COUNTY--Continued

267

402753111282001. LOCAL NUMBER, (D-4-4)15ddd-3.

LOCATION.--Lat 40°27'53", long 111°28'20", Hydrologic Unit 16020203.

Owner: U.S. Geological Survey.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 2 in., depth 30 ft.

DATUM.--Elevation of land-surface datum is 5,420 ft above sea level. Measuring point: Top of casing, 2.60 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--December 1988 to August 1989, May 1993 to current year (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.70 ft above land-surface datum, June 28, 1993, July 05, 1995; lowest, 17.22 ft below land-surface datum, Jan. 10, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	12.00	NOV 22, 1996	10.33

402742111281501. LOCAL NUMBER, (D-4-4)23bbb-2.

LOCATION.--Lat 40°27'42", long 111°28'15", Hydrologic Unit 16020203.

Owner: Shirley Lewis.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 36 in., depth 25 ft.

DATUM.--Elevation of land-surface datum is 5,426 ft above sea level. Measuring point: Top of sandstone slab over well, at land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1988 to August 1989, May 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.68 ft below land-surface datum, June 28, 1993; lowest, 23.37 ft below land-surface datum, Feb. 07, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	19.80	FEB 25, 1997	21.28	JUN 26, 1997	7.53
NOV 21, 1996	19.61	MAR 25, 1997	19.88	JUL 29, 1997	8.75
DEC 26, 1996	18.20	APR 29, 1997	18.72	AUG 22, 1997	8.28
JAN 27, 1997	19.65	MAY 28, 1997	10.06	SEP 29, 1997	17.80

402937111214901. LOCAL NUMBER, (D-4-5)3dcc-1.

LOCATION.--Lat 40°29'37", long 111°21'49", Hydrologic Unit 16020203.

Owner: Brad Baird.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 6 in., depth 75 ft.

DATUM.--Elevation of land-surface datum is 5,880 ft above sea level. Measuring point: Top of casing, 1.60 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1988 to August 1989, June 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.88 ft below land-surface datum, June 26, 1997; lowest, 35.42 ft below land-surface datum, Jan. 10, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	27.12	MAR 27, 1997	21.00	JUL 29, 1997	14.30
NOV 22, 1996	30.20	APR 30, 1997	22.79	AUG 22, 1997	16.60
DEC 26, 1996	29.73	MAY 29, 1997	14.54	SEP 29, 1997	21.52
JAN 27, 1997	28.13	JUN 26, 1997	12.88		

GROUND-WATER LEVELS
WASATCH COUNTY--Continued

402946111233901. LOCAL NUMBER, (D-4-5)4ccb-1.

LOCATION.--Lat 40°29'46", long 111°23'39", Hydrologic Unit 16020203.

Owner: Dan Giles.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 6 in., depth 217 ft.

DATUM.--Elevation of land-surface datum is 5,700 ft above sea level. Measuring point: Top of plug hole in cap 1.75 ft above land-surface datum.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 100.17 ft below land-surface datum, July 29, 1997; lowest, 151.04 ft below land-surface datum, Mar. 25, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26, 1997	149.45	MAY 29, 1997	128.00	AUG 22, 1997	103.02
MAR 25, 1997	151.04	JUN 30, 1997	105.60	SEP 29, 1997	117.87
APR 30, 1997	142.66	JUL 29, 1997	100.17	OCT 21, 1997	123.62

402842111223601. LOCAL NUMBER, (D-4-5)4ddd-1.

LOCATION.--Lat 40°28'42", long 111°22'36", Hydrologic Unit 16020203.

Owner: Tressa McDonald Mair.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--

DATUM.--Elevation of land-surface datum is 5,798 ft above sea level. Measuring point: Top of cut 2 in. x 6 in. at Northeast corner, 4.5 ft below land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1939, September 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.21 ft below land-surface datum, Aug. 20, 1970; lowest, 47.12 ft below land-surface datum, Mar. 19, 1973.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 17, 1997	29.81	MAY 29, 1997	11.71	AUG 22, 1997	18.68
FEB 28, 1997	37.09	JUN 26, 1997	12.53	SEP 29, 1997	21.79
MAR 27, 1997	22.57	JUL 29, 1997	15.01	OCT 21, 1997	25.52
APR 30, 1997	19.20				

403022111240801. LOCAL NUMBER, (D-4-5)5abb-1.

LOCATION.--Lat 40°30'22", long 111°24'08", Hydrologic Unit 16020203.

Owner: Heber City Corporation.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 12 in., depth 375 ft.

DATUM.--Elevation of land-surface datum is 5,640 ft above sea level. Measuring point: Top of hole in cap 1.85 ft above land-surface datum.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.56 ft below land-surface datum, September 29, 1997; lowest 30.06 ft below land-surface datum, Aug. 22, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 22, 1997	20.38	MAY 29, 1997	14.13	AUG 22, 1997	30.06
FEB 28, 1997	21.84	JUN 26, 1997	27.85	SEP 29, 1997	13.56
MAR 25, 1997	21.62	JUL 28, 1997	29.85	OCT 21, 1997	14.05
APR 30, 1997	19.49				

GROUND-WATER LEVELS

269

WASATCH COUNTY--Continued

403003111255801. LOCAL NUMBER, (D-4-5)6bcc-2.

LOCATION.--Lat 40°30'03", long 111°25'58", Hydrologic Unit 16020203.

Owner: Erma Moulton.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--

DATUM.--Elevation of land-surface datum is 5,530 ft above sea level. Measuring point: Top of casing, 1.50 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--August 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.00 ft below land-surface datum, July 19, 1996; lowest, 37.48 ft below land-surface datum, Mar. 14, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	19.70	FEB 25, 1997	31.15	JUN 26, 1997	14.54
NOV 21, 1996	22.89	MAR 25, 1997	31.79	JUL 28, 1997	10.73
DEC 26, 1996	26.73	APR 29, 1997	29.52	AUG 21, 1997	11.48
JAN 27, 1997	29.18	MAY 28, 1997	20.18	SEP 29, 1997	15.27

402856111252701. LOCAL NUMBER, (D-4-5)7cad-1.

LOCATION.--Lat 40°28'56", long 111°25'27", Hydrologic Unit 16020203.

Owner: Heber City Corp. (Airport)

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 6 in., depth 155 ft.

DATUM.--Elevation of land-surface datum is 5,615 ft above sea level. Measuring point: Top of well cover, 8.0 ft below land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--June 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 60.23 ft below land-surface datum, Aug. 10, 1995; lowest, 117.45 ft below land-surface datum, Mar. 14, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	79.33	FEB 25, 1997	103.68	JUN 26, 1997	65.73
NOV 21, 1996	86.70	MAR 25, 1997	106.75	JUL 28, 1997	61.18
DEC 26, 1996	95.04	APR 29, 1997	101.64	AUG 21, 1997	62.86
JAN 27, 1997	100.08	MAY 28, 1997	81.55	SEP 29, 1997	71.22

402857111245601. LOCAL NUMBER, (D-4-5)7dad-1.

LOCATION.--Lat 40°28'57", long 111°24'56", Hydrologic Unit 16020203.

Owner: Wayne Foy.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 6 in., depth 160 ft.

DATUM.--Elevation of land-surface datum is 5,660 ft above sea level. Measuring point: Top of casing, 1.95 ft above land-surface datum.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 85.75 ft below land-surface datum, July 29, 1997; lowest, 135.65 ft below land-surface datum, Mar. 27, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 22, 1997	127.16	MAY 29, 1997	110.56	AUG 21, 1997	86.55
FEB 26, 1997	132.15	JUN 26, 1997	91.80	SEP 29, 1997	97.19
MAR 27, 1997	135.65	JUL 29, 1997	85.75	OCT 21, 1997	103.14
APR 29, 1997	131.93				

GROUND-WATER LEVELS
WASATCH COUNTY--Continued

402904111225801. LOCAL NUMBER, (D-4-5)9dbb-1.

LOCATION.--Lat 40°29'04", long 111°22'58", Hydrologic Unit 16020203.

Owner: Ernest Blodgett.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 8 in., depth 320 ft.

DATUM.--Elevation of land-surface datum is 5,770 ft above sea level. Measuring point: Top of casing, 1.4 ft above land-surface datum.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 148.50 ft below land-surface datum, July 29, 1997; lowest, 164.06 ft below land-surface datum, Feb. 13, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 13, 1997	164.06	MAY 29, 1997	153.68	AUG 21, 1997	154.12
MAR 27, 1997	163.13	JUN 30, 1997	149.46	SEP 29, 1997	157.18
APR 30, 1997	160.35	JUL 29, 1997	148.50	OCT 21, 1997	159.00

402834111202601. LOCAL NUMBER, (D-4-5)14aac-1.

LOCATION.--Lat 40°28'34", Long 111°20'26", Hydrologic Unit 16020203.

Owner: Sweat

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 6 in., depth 104 ft.

DATUM.--Elevation of land-surface datum is 6,020 ft above sea level. Measuring point: Lip of access hole, 2.47 ft below land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1988 to August 1989, May 1993 to current year (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.63 ft below land-surface datum, July 6, 1989; lowest, 11.82 ft below land-surface datum, Jan. 10, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	10.86	NOV 22, 1996	10.41

402840111213801. LOCAL NUMBER, (D-4-5)15aab-1.

LOCATION.--Lat 40°28'40", long 111°21'38", Hydrologic Unit 16020203.

Owner: Doyle Sweat.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 6 in., depth 150 ft.

DATUM.--Elevation of land-surface datum is 5,900 ft above sea level. Measuring point: Lip of plug hole, 1.06 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1988 to May 1990, May 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.00 ft below land-surface datum, May 28, 1990; lowest, 22.62 ft below land-surface datum, Aug. 02, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	18.62	FEB 26, 1997	18.89	JUN 26, 1997	16.57
NOV 22, 1996	18.14	MAR 25, 1997	17.56	JUL 29, 1997	17.63
DEC 26, 1996	17.75	APR 30, 1997	19.24	AUG 21, 1997	19.04
JAN 31, 1997	18.50	MAY 29, 1997	15.94	SEP 26, 1997	19.32

GROUND-WATER LEVELS
WASATCH COUNTY--Continued

271

402839111221101. LOCAL NUMBER, (D-4-5)15bab-1.

LOCATION.--Lat 40°28'39", long 111°22'11", Hydrologic Unit 16020203.

Owner: Theon Sweat.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 6 in., depth 165 ft.

DATUM.--Elevation of land-surface datum is 5,850 ft above sea level. Measuring point: Lip of access hole, 5.90 ft below land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1988 to August 1989, May 1993 to current year

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 120.72 ft below land-surface datum, June 19, 1996; lowest, 135.73 ft below land-surface datum, Oct. 06, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	126.57	FEB 26, 1997	128.30	JUN 26, 1997	122.01
NOV 22, 1996	125.66	MAR 25, 1997	128.58	JUL 28, 1997	123.84
DEC 26, 1996	124.59	APR 30, 1997	126.30	AUG 21, 1997	122.72
JAN 31, 1997	125.13	MAY 29, 1997	122.74	SEP 26, 1997	124.39

402840111232201. LOCAL NUMBER (D-4-5)16bab-1.

LOCATION.--Lat 40°28'40", long 111°23'22", Hydrologic Unit 16020203.

Owner: Randy Wade.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--

DATUM.--Elevation of land-surface datum is 5,780 ft above sea level. Measuring point: Top of casing, 0.55 ft above land-surface datum.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 184.65 ft below land-surface datum, Aug. 21, 1997; lowest, 239.29 ft below land-surface datum, Mar. 27, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 13, 1997	229.63	MAY 29, 1997	219.70	AUG 21, 1997	184.65
MAR 27, 1997	239.29	JUN 30, 1997	192.05	OCT 21, 1997	201.84
APR 30, 1997	232.72	JUL 29, 1997	185.43		

402750111232701. LOCAL NUMBER, (D-4-5)16ccd-1.

LOCATION.--Lat 40°27'50", long 111°23'27", Hydrologic Unit 16020203.

Owner: Blaine Webster.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 8 in., depth 150 ft.

DATUM.--Elevation of land-surface datum is 5,850 ft above sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--October 1988 to August 1989, May 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 75.93 ft below land-surface datum, Sept. 25, 1996; lowest, 95.16 ft below land-surface datum, Dec. 08, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1996	83.62	FEB 26, 1997	93.89	JUN 26, 1997	87.20
NOV 21, 1996	94.05	MAR 28, 1997	88.10	JUL 29, 1997	91.92
DEC 27, 1996	94.09	APR 30, 1997	80.53	AUG 21 1997	88.49
JAN 27, 1997	95.09	MAY 29, 1997	83.00	SEP 26, 1997	88.49

GROUND-WATER LEVELS

WASATCH COUNTY--Continued

402810111241601. LOCAL NUMBER (D-4-5)17caa-1.

LOCATION.--Lat 40°28'10", long 111°24'16", Hydrologic Unit 16020203.

Owner: Dennis Tack.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.-- Diameter 6 in., depth 265 ft.

DATUM.--Elevation of land-surface datum is 5,770 ft above sea level. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 211.77 ft below land-surface datum, Aug. 21, 1997; lowest, 248.02 ft below land-surface datum, Mar. 27, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 30, 1997	241.66	MAY 29, 1997	226.63	AUG 21, 1997	211.77
FEB 26, 1997	244.69	JUN 30, 1997	212.12	SEP 26, 1997	217.75
MAR 27, 1997	248.02	JUL 29, 1997	216.04	OCT 21, 1997	218.86
APR 30, 1997	246.21				

402816111253001. LOCAL NUMBER (D-4-5)18bdd-1.

LOCATION.--Lat 40°28'16", long 111°25'30", Hydrologic Unit 16020203.

Owner: Parker Knight.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--

DATUM.--Elevation of land-surface datum is 5,660 ft above sea level. Measuring point: Top of casing, 0.95 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--February 1997 to May 1997 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 117.45 ft below land-surface datum, May 29, 1997; lowest, 151.00 ft below land-surface datum, Mar. 25, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 28, 1997	150.23	APR 30, 1997	133.30
MAR 25, 1997	151.00	MAY 29, 1997	117.45

WASHINGTON COUNTY

372708113164201. Local Number, (C-38-13)35abb-1.

LOCATION.--Lat 37°27'08", long 113°16'42", Hydrologic Unit 15010008.

Owner: LDS Church

AQUIFER.--Pine Valley Latite.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 6 in., depth 370 ft.

DATUM.--Elevation of land-surface datum is 5,040.00 ft above sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.

REMARKS.-- Records good for 1997 water year except those for estimated record from October 1-3, which are poor.

PERIOD OF RECORD.--July 1995 to May 1997 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 80.51 ft below land-surface datum, July 18, 1995; lowest recorded, 104.57 ft below land-surface datum, October 28, 1996 but could be a few hundredths of a foot lower because the final 2 hours of a 7-day drawdown test were not recorded.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	98.97	100.02	94.61	92.14	90.54	92.44	94.55	96.92	---	---	---	---
10	99.09	98.79	93.70	92.16	90.67	92.77	94.19	95.84	---	---	---	---
15	99.07	97.56	92.85	92.13	91.03	93.04	94.11	95.37	---	---	---	---
20	99.03	96.90	92.37	91.85	91.30	93.60	94.13	95.16	---	---	---	---
25	103.04	95.91	92.30	92.04	91.71	94.15	94.55	---	---	---	---	---
EOM	101.59	95.34	92.39	90.89	91.76	94.42	96.83	---	---	---	---	---

GROUND-WATER LEVELS
WASHINGTON COUNTY—Continued

273

371045113332301. LOCAL NUMBER (C-41-15)32acd-1.

LOCATION.--Lat 37°10'45", long 113°33'23", Hydrologic Unit 15010008.

Owner: Terracor.

AQUIFER.--Navajo Sandstone.

WELL CHARACTERISTICS.--Drilled unused hole, 14 in. surface casing set to 15 ft depth, uncased 8 in. open hole from 15 to 595 ft.

DATUM.--Elevation of land-surface datum is 3,530.00 ft above sea level. Measuring point: Top of casing, 0.60 ft above land-surface datum.

REMARKS.--Record is poor. Water levels for 1996 and 1997 water years were not previously published.

PERIOD OF RECORD.--April 11, 1996 to May 20, 1997 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 482.11 ft below land-surface datum, Apr. 16, 1996; lowest, 483.62 ft below land-surface datum, May 20, 1997.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	482.56	482.71	e483.0	e483.0	482.94
10	---	---	---	---	---	---	---	482.72	e482.9	e483.0	e483.0	483.03
15	---	---	---	---	---	---	482.21	482.56	e482.9	e483.0	e483.0	482.99
20	---	---	---	---	---	---	482.32	482.66	e483.0	e483.0	e483.0	483.01
25	---	---	---	---	---	---	482.22	482.80	e483.1	e483.0	e483.0	482.93
EOM	---	---	---	---	---	---	482.29	482.83	e483.2	e483.0	482.83	482.96

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	483.05	482.97	e482.9	e483.1	e483.2	e483.3	e483.4	e483.6	---	---	---	---
10	483.04	482.93	e483.0	483.1	e483.2	e483.4	e483.5	e483.6	---	---	---	---
15	482.92	482.73	e483.0	e483.2	e483.3	e483.4	e483.5	e483.6	---	---	---	---
20	482.95	e482.8	e483.1	e483.2	e483.3	e483.4	e483.5	483.62	---	---	---	---
25	482.67	e482.9	e483.1	e483.2	e483.3	e483.4	e483.5	---	---	---	---	---
EOM	482.85	e482.9	e483.1	e483.2	e483.2	e483.4	e483.6	---	---	---	---	---

e Estimated

370640113223201. LOCAL NUMBER (C-42-14)25abb-1.

LOCATION.--Lat 37°06'40", long 113°22'32", Hydrologic Unit 15010008.

Owner: Terracor.

AQUIFER.--Navajo Sandstone.

WELL CHARACTERISTICS.--Drilled unused hole, 16 in. surface casing set to 4 ft depth, 8 in. hole to 720 ft.

DATUM.--Elevation of land-surface datum is 3,010 ft above sea level. Measuring point: Top of casing, 1.20 ft above land-surface datum.

REMARKS.--Record is good except for estimated day, which is poor. Water levels for 1996 and 1997 water years were not previously published.

PERIOD OF RECORD.--December 1995 to May 1997 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 67.89 ft below land-surface datum, Jan 17, 1996; lowest, 68.75 ft below land-surface datum, Feb. 3, 1996.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	68.44	68.50	68.18	68.42	68.23	68.17	68.17	68.13	68.07
10	---	---	---	68.40	68.38	68.29	68.13	68.37	68.15	68.22	68.11	68.16
15	---	---	e68.6	68.33	68.35	68.31	68.21	68.20	68.17	68.18	68.16	68.06
20	---	---	68.38	68.52	68.28	68.26	68.24	68.22	68.12	68.18	68.12	68.14
25	---	---	68.55	68.25	68.16	68.27	68.18	68.23	68.12	68.14	68.06	68.04
EOM	---	---	68.22	68.26	68.51	68.28	68.13	68.28	68.22	68.11	67.99	68.07

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	68.16	68.06	67.97	68.02	68.03	68.23	67.91	67.94	---	---	---	---
10	68.15	68.08	67.98	67.93	68.01	68.02	67.98	67.97	---	---	---	---
15	68.04	67.86	68.26	68.33	68.14	67.95	68.06	67.97	---	---	---	---
20	68.16	68.08	67.93	67.97	67.99	67.96	67.96	68.02	---	---	---	---
25	67.82	68.15	67.97	68.00	67.90	68.10	68.06	---	---	---	---	---
EOM	68.03	68.19	68.14	68.03	67.79	67.89	67.88	---	---	---	---	---

e Estimated

GROUND-WATER LEVELS

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 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 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.52	24.32	23.67	22.02	21.99	22.70	22.96	19.77	13.78	12.80	16.27	20.77
10	28.14	23.63	24.37	21.91	21.78	22.92	22.41	18.85	14.16	14.10	17.44	19.58
15	28.29	24.33	23.86	21.98	21.85	22.85	22.13	18.10	11.92	12.36	15.97	19.39
20	25.64	24.32	23.78	22.02	22.11	22.50	24.14	16.80	14.29	13.92	18.41	18.68
25	24.41	24.22	23.56	21.94	22.47	22.06	21.15	13.82	14.60	15.04	20.36	18.81
EOM	24.01	23.60	22.57	21.98	22.47	22.32	19.72	14.87	13.12	17.01	21.38	20.12

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 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 1963 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 20.50 ft above land-surface datum, Mar. 11, 1937; lowest, 19.67 ft. below land-surface datum, Sept. 2, 3, 1992.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.19	11.18	10.12	9.08	8.36	7.73	7.52	8.20	9.12	10.16	11.87	12.22
10	12.06	11.05	9.85	8.94	8.29	7.67	7.67	8.34	9.26	10.54	11.91	12.42
15	11.94	10.91	9.78	8.80	8.19	7.59	7.81	8.46	9.33	10.91	11.95	12.50
20	11.81	10.82	9.76	8.70	8.03	7.56	7.89	8.65	9.49	11.26	11.91	12.52
25	11.53	10.62	9.60	8.51	7.92	7.48	7.96	8.83	9.65	11.59	11.87	12.76
EOM	11.39	10.38	9.32	8.43	7.75	7.46	8.09	9.02	9.78	11.78	11.94	13.04

HYDROLOGIC DATA AT UNION PACIFIC RAILROAD CAUSEWAY
GREAT SALT LAKE BASIN

275

STATION NUMBER	LOCAL IDENTIFIER	DATE	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	SAMPLING DEPTH (M) (00098)	TEMPERATURE SPEC. GRAVITY MEASUREMENT (DEG C) (72012)	SPECIFIC GRAVITY (72013)
411318112334001	GSL EAST CULVERT	03-20-97	--	--	--	--	--
		04-14-97	--	--	--	--	--
		05-07-97	--	--	--	--	--
		05-29-97	--	--	--	--	--
		06-19-97	--	--	--	--	--
		07-09-97	--	--	--	--	--
		09-04-97	--	--	--	--	--
411321112505701	GSL BREACH AT LAKESIDE	12-19-96	-4.5	-1.0	0.10	-1.0	1.094
		02-07-97	--	2.0	--	2.0	1.085
		02-11-97	--	--	--	--	--
		03-20-97	16.5	12.5	0.10	12.5	1.070
		04-14-97	--	10.5	0.10	10.5	1.081
		05-07-97	--	15.5	0.10	15.5	1.078
		05-29-97	--	20.5	0.10	21.0	1.064
		06-19-97	--	24.5	0.10	24.5	1.068
		07-09-97	--	28.0	0.10	28.0	1.068
		08-12-97	--	--	0.10	27.5	1.071
411325112400701	GSL WEST CULVERT	03-20-97	--	--	--	--	--
		04-14-97	--	--	--	--	--
		05-07-97	--	--	--	--	--
		05-29-97	--	--	--	--	--
		06-19-97	--	--	--	--	--
		06-19-97	--	--	--	--	--
		07-18-97	--	--	--	--	--
		09-04-97	--	--	--	--	--

DENSITY (GM/ML AT 20 C) (71820)	SALINITY (PERCENT) (99915)	SALINITY (PPT) (00480)	HYDRAULIC HEAD (FEET) (99923)	SOUTH ARM ELEVATION ABOVE NGVD (FEET) (72020)	NORTH ARM ELEVATION ABOVE NGVD (FEET) (99924)	S TO N DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	N TO S DISCHARGE, INST. CUBIC FEET PER SECOND (99925)
--	--	--	2.200	--	--	468	0.00
--	--	--	2.390	--	--	442	0.00
--	--	--	2.330	--	--	733	0.00
--	--	--	2.440	--	--	809	0.00
--	--	--	2.520	--	--	574	0.00
--	--	--	2.090	--	--	741	0.00
--	--	--	1.560	--	--	496	0.00
1.092	13.400	134	1.520	4198.5	4196.9	271	0.00
1.083	12.200	122	2.060	4199.5	4197.4	--	--
--	--	--	1.950	4199.5	4197.5	877	0.00
1.069	10.200	102	2.130	4200.0	4197.8	1060	0.00
1.079	11.700	117	2.170	4200.2	4198.0	1370	0.00
1.077	11.400	114	2.110	4200.4	4198.3	1700	0.00
1.064	9.580	95.8	2.440	4200.9	4198.5	1980	0.00
1.069	10.300	103	2.410	4201.1	4198.7	2560	0.00
1.070	10.400	104	2.380	4200.9	4198.6	2180	0.00
1.073	10.800	108	1.750	4200.4	4198.6	1670	0.00
--	--	--	2.270	--	--	108	0.00
--	--	--	2.280	--	--	132	0.00
--	--	--	2.320	--	--	227	0.00
--	--	--	2.510	--	--	167	0.00
--	--	--	2.550	--	--	94	0.00
--	--	--	--	--	--	574	--
--	--	--	1.300	--	--	137	0.00
--	--	--	1.350	--	--	51	0.00

QUALITY OF GROUND-WATER
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
BEAVER COUNTY										
382924112592901	(C-28-10) 5add- 1	100VLFL	305.00	05-28-97	860	7.7	18.5	--	--	--
382336112592601	(C-28-10) 8add- 2	100VLFL	200.00	05-28-97	810	7.6	16.0	--	--	--
382019112591701	(C-28-10) 28ccc- 1	100VLFL	316.00	05-29-97	1130	7.7	17.0	--	--	--
382313113020901	(C-28-11) 12dbc- 2	100VLFL	460.00	05-29-97	2000	7.2	18.0	--	--	--
382020113015701	(C-28-11) 25dcd- 1	100VLFL	431.00	05-29-97	1260	7.9	20.0	540	160	37
381625112412901	(C-29- 7) 19bcd- 1	100VLFL	256.00	07-01-97	500	7.0	11.5	--	--	--
381516112422201	(C-29- 8) 25cac- 1	100VLFL	250.00	07-01-97	300	8.0	19.5	--	--	--
381435112471401	(C-29- 8) 31add- 1	100VLFL	310.00	07-01-97	720	7.5	12.5	--	--	--
381835113000001	(C-29-10) 5cdd- 2	100VLFL	95.00	05-29-97	950	7.8	16.5	--	--	--
381714113003401	(C-29-10) 18daa- 1	100VLFL	298.00	05-28-97	440	7.9	16.0	170	50	11
381901113014101	(C-29-11) 1add- 1	100VLFL	64.00	05-28-97	760	7.5	18.5	310	90	20
381700113033401	(C-29-11) 14cdb- 1	100VLFL	--	05-29-97	485	8.0	18.0	--	--	--
381543113035501	(C-29-11) 27aad- 1	100VLFL	204.00	05-29-97	850	7.6	23.0	--	--	--
BOX ELDER COUNTY										
413057112023901	(B- 9- 2) 15daa- 1	100VLFL	465.00	09-03-97	620	8.4	15.5	10	2.4	0.85
414454112173101	(B-12- 4) 27dbd- 1	100VLFL	478.00	07-02-97	2300	7.3	15.5	730	170	73
414339112173401	(B-12- 4) 34cca- 1	100VLFL	292.00	07-02-97	2010	7.2	22.0	590	140	59
414745113063901	(B-12-11) 4bcc- 1	100VLFL	230.00	07-01-97	3410	7.6	19.0	770	170	82
415737112431601	(B-14- 8) 11bca- 1	100VLFL	416.00	06-30-97	2460	7.4	11.5	850	200	87
415939112562201	(B-15-10) 36bbb- 1	100VLFL	613.00	07-02-97	500	7.5	16.0	200	60	12
CACHE COUNTY										
415020111520401	(A-13- 1) 29bcd- 1	100VLFL	173.00	06-26-97	465	7.7	13.0	190	41	22
DAVIS COUNTY										
405535111525101	(A- 2- 1) 7aba- 4	100VLFL	450.00	08-19-97	280	7.6	17.5	54	13	5.1
405351111540803	(B- 2- 1) 24bad- 3	100VLFL	386.00	08-19-97	490	7.8	16.0	110	32	7.3
DUCHESNE COUNTY										
402130110231301	U(C- 1- 4) 31bbb- 1	--	--	07-25-97	820	7.2	13.0	--	--	--
402119110204201	U(C- 1- 4) 33bdb- 1	--	--	07-25-97	3100	6.9	12.0	--	--	--
401919109593201	U(C- 2- 1) 9dad- 1	123DCRV	740.00	08-05-97	770	9.1	13.0	--	--	--
401819110041601	U(C- 2- 2) 14ddb- 1	--	465.00	08-05-97	415	7.9	13.0	--	--	--
401538110210501	(C- 2- 4) 32aac- 1	--	--	08-05-97	12700	7.8	36.0	--	--	--
402011110260901	U(C- 2- 5) 3bdd- 1	--	--	07-25-97	310	7.8	14.0	--	--	--
401611110251502	U(C- 2- 5) 35bab- 1	--	120.00	08-05-97	920	8.9	13.0	--	--	--
401030110225701	U(C- 3- 4) 31cab- 1	112OTSH	70.00	07-25-97	730	7.3	19.0	--	--	--
401430110291001	(C- 3- 5) 17aca- 1	--	--	08-05-97	11100	8.3	26.0	--	--	--
401012110292101	U(C- 3- 5) 31dcd- 1	124UINT	200.00	07-25-97	790	7.4	18.5	--	--	--
401124110305501	U(C- 3- 6) 25cab- 1	--	120.00	07-25-97	920	9.4	19.0	--	--	--
IRON COUNTY										
375257112483501	(C-33- 8) 31ccc- 1	100VLFL	450.00	05-23-97	520	7.8	14.0	220	45	25
375320112510003	(C-33- 9) 35acd- 3	100VLFL	880.00	05-23-97	450	7.8	14.0	200	40	24
375151112525002	(C-34- 9) 9bbd- 2	100VLFL	324.00	05-23-97	570	7.9	12.0	--	--	--
375006112554801	(C-34-10) 24abc- 1	100VLFL	135.00	07-01-97	560	7.9	14.0	--	--	--
374834113384301	(C-34-16) 28dcc- 2	100VLFL	148.00	08-14-97	1140	7.5	12.0	460	140	27
374753113464601	(C-34-17) 32cca- 1	100VLFL	306.00	07-15-97	570	7.5	19.0	220	69	10
374619113053101	(C-35-11) 9dba- 1	100VLFL	--	05-21-97	630	8.2	14.5	--	--	--
374550113040601	(C-35-11) 11ccc- 1	100VLFL	263.00	05-21-97	920	8.0	13.5	--	--	--
374248113075201	(C-35-11) 31dbb- 1	100VLFL	--	05-21-97	740	7.8	14.5	--	--	--
374649113305801	(C-35-15) 3dcc- 3	--	316.00	07-15-97	1230	7.7	15.0	480	120	48
374623113381301	(C-35-16) 9add- 1	100VLFL	150.00	07-15-97	550	7.6	13.0	230	71	14
374412113384503	(C-35-16) 21dcc- 3	100VLFL	300.00	07-15-97	410	7.5	15.0	170	53	9.6
374105113085001	(C-36-12) 12dba- 1	100VLFL	600.00	05-20-97	590	7.8	14.5	280	54	36

GEOLOGICAL UNIT (AQUIFER)

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.

110ALVM - ALLUVIUM, QUATERNARY AGE.

111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.

QUALITY OF GROUND-WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

277

DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	ALKA- LITY (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)
BEAVER COUNTY												
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
58	7.1	150	290	140	0.48	42	829	1.58	<0.010	<3.0	<1.0	135
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
21	3.6	125	42	35	0.44	36	279	1.17	<0.010	19	1.7	52
29	4.8	174	66	93	0.44	40	459	2.62	<0.010	<3.0	<1.0	63
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
BOX ELDER COUNTY												
145	1.9	306	1.7	13	0.67	17	367	0.061	0.207	380	13	263
153	3.8	174	110	580	0.22	23	1230	--	--	<9.0	<3.0	75
149	4.4	181	110	480	0.24	20	1070	--	--	190	9.3	91
377	20	171	49	970	0.29	49	1830	--	--	<9.0	<3.0	298
333	19	261	320	710	0.77	48	1880	--	--	<9.0	4.9	162
19	7.9	139	17	54	0.23	65	319	--	--	7.2	1.3	51
CACHE COUNTY												
23	1.6	232	11	8.3	0.13	10	258	0.234	<0.010	130	66	52
DAVIS COUNTY												
40	1.2	109	12	15	0.11	19	174	0.602	0.053	16	21	50
60	2.3	174	24	32	0.28	18	288	1.83	0.029	15	7.6	56
DUCHESNE COUNTY												
--	--	--	--	16	--	--	--	--	--	--	--	--
--	--	--	--	110	--	--	--	--	--	--	--	--
--	--	--	--	34	--	--	--	--	--	--	--	--
--	--	--	--	2.7	--	--	--	--	--	--	--	--
--	--	--	--	3300	--	--	--	--	--	--	--	--
--	--	--	--	0.97	--	--	--	--	--	--	--	--
--	--	--	--	11	--	--	--	--	--	--	--	--
--	--	--	--	8.2	--	--	--	--	--	--	--	--
--	--	--	--	1900	--	--	--	--	--	--	--	--
--	--	--	--	11	--	--	--	--	--	--	--	--
--	--	--	--	2.5	--	--	--	--	--	--	--	--
IRON COUNTY												
23	2.8	214	24	26	0.20	28	310	1.64	<0.010	<3.0	<1.0	49
14	2.6	188	22	18	0.17	26	268	2.09	<0.010	<3.0	<1.0	30
--	--	--	--	--	--	--	--	--	--	--	--	--
38	8.4	128	110	210	0.56	70	679	1.95	0.052	<3.0	<1.0	104
28	8.7	163	79	30	0.44	60	389	1.07	--	3.0	<1.0	167
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
66	5.1	130	290	150	0.41	63	820	1.20	--	<3.0	4.6	229
16	5.1	151	30	64	0.22	51	349	1.96	--	<3.0	<1.0	41
14	4.5	154	14	26	0.25	57	278	1.79	--	<3.0	<1.0	29
8.6	2.2	146	140	16	0.36	22	375	1.74	<0.010	<3.0	<1.0	40

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

123 DCRV - DUCHESNE RIVER FORMATION, OLIGOCENE AGE.

124UINT - UINTAH FORMATION, EOCENE AGE.

220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC-TRIASSIC AGE.

220JRSC - JURASSIC SYSTEM, JURASSIC AGE.1

QUALITY OF GROUND-WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)
IRON COUNTY--Continued										
374209113322203	(C-36-15) 4bad- 3	100VLFL	320.00	07-15-97	740	7.9	23.0	130	40	6.4
374040113343102	(C-36-15) 7cdd- 2	--	500.00	07-15-97	990	7.9	25.0	--	--	--
374014113391101	(C-36-16) 9bcd- 2	100VLFL	--	07-15-97	430	7.5	15.5	--	--	--
373854113411501	(C-36-16) 19abb- 1	100VLFL	352.00	07-14-97	455	7.5	13.5	--	--	--
373656113415201	(C-36-17) 36aad- 1	100VLFL	363.00	07-14-97	470	7.3	11.5	--	--	--
373542113122401	(C-37-12) 9acc- 1	100VLFL	186.00	05-20-97	365	7.6	16.0	140	47	5.8
373407113100801	(C-37-12) 23acb- 1	100VLFL	250.00	05-20-97	630	7.6	16.0	240	55	26
373236113111401	(C-37-12) 34abb- 1	100VLFL	190.00	07-01-97	780	7.2	12.5	410	110	34
JUAB COUNTY										
393236111525300	(C-15- 1) 1baa- 1	--	280.00	07-22-97	1230	--	16.0	--	--	--
393208111525201	(C-15- 1) 1caa- 1	100VLFL	252.00	07-22-97	1240	--	13.0	--	--	--
393231111550201	(C-15- 1) 3abb- 2	100VLFL	493.00	07-22-97	1490	--	13.5	--	--	--
393212111543401	(C-15- 1) 3add- 1	--	--	07-22-97	1140	--	14.0	--	--	--
393142111523501	(C-15- 1) 12aaa- 2	100VLFL	405.00	07-22-97	1620	--	16.5	--	--	--
395244111502501	(D-11- 1) 9bbb- 1	--	83.00	07-21-97	520	7.6	12.0	--	--	--
395110111502101	(D-11- 1) 16ccb- 1	100VLFL	384.00	07-21-97	485	--	12.0	--	--	--
395101111510001	(D-11- 1) 17cdd- 1	--	392.00	07-21-97	480	--	16.0	--	--	--
395100111503501	(D-11- 1) 20aab- 1	100VLFL	311.00	07-21-97	630	--	12.0	--	--	--
394848111500201	(D-11- 1) 33cab- 1	--	452.00	07-23-97	495	--	11.0	--	--	--
394323111515501	(D-12- 1) 31cac- 1	--	--	07-23-97	1140	--	12.5	--	--	--
394226111501601	(D-13- 1) 5dda- 1	100VLFL	336.00	07-22-97	1560	--	11.0	--	--	--
394225111502702	(D-13- 1) 5ddb- 2	100VLFL	352.00	07-22-97	1680	7.1	11.0	--	--	--
394226111502101	(D-13- 1) 5ddb- 3	100VLFL	350.00	07-22-97	1600	--	11.0	--	--	--
394137111515001	(D-13- 1) 7dbc- 1	--	210.00	07-23-97	1420	7.3	11.0	--	--	--
394153111504101	(D-13- 1) 8acc- 1	--	348.00	07-23-97	1680	--	13.0	--	--	--
393315111511601	(D-14- 1) 31ada- 1	100VLFL	405.00	07-22-97	1190	--	12.0	--	--	--
393312111521001	(D-14- 1) 31bcb- 1	100VLFL	472.00	07-22-97	1160	--	12.5	--	--	--
393301111512501	(D-14- 1) 31dab- 1	100VLFL	420.00	07-22-97	1190	7.2	12.0	480	120	45
KANE COUNTY										
371739112200201	(C-40- 4) 32bad- 1	100VLFL	135.00	07-17-97	1130	7.3	12.0	--	--	--
370843112340602	(C-42- 6) 19bdc- 2	220NVJO	250.00	07-17-97	250	8.0	14.0	120	23	15
370050112274501	(C-44- 5) 6cbb- 1	--	--	07-17-97	--	--	--	--	--	--
MILLARD COUNTY										
393154112192901	(C-15- 4) 8cba- 1	100VLFL	203.00	06-24-97	3470	7.0	14.5	--	--	--
393158112152001	(C-15- 4) 11add- 1	100VLFL	485.00	06-24-97	1630	--	15.0	--	--	--
392859112154601	(C-15- 4) 26dcc- 1	100VLFL	660.00	06-25-97	890	7.3	16.5	--	--	--
392928112382201	(C-15- 7) 28bad- 1	100VLFL	--	06-25-97	600	--	19.5	--	--	--
392821112384101	(C-15- 7) 33bcd- 1	--	900.00	06-25-97	520	--	15.5	--	--	--
392752112362401	(C-15- 7) 35bcd- 1	--	620.00	06-25-97	750	--	16.5	--	--	--
392819112352901	(C-15- 7) 36cbb- 1	--	420.00	06-25-97	540	--	15.5	--	--	--
392437112200601	(C-16- 4) 19dbd- 1	100VLFL	344.00	06-25-97	1610	--	15.0	--	--	--
392141113585601	(C-17-19) 4add- 2	100VLFL	760.00	07-17-97	480	7.9	15.0	160	40	15
390758112194601	(C-19- 4) 29bcd- 1	100VLFL	390.00	06-03-97	1000	7.5	15.5	--	--	--
390628112201401	(C-20- 4) 6aca- 1	100VLFL	506.00	06-03-97	1860	7.5	14.5	--	--	--
385939112272303	(C-21- 5) 7cdd- 3	--	--	06-03-97	1280	7.2	12.5	460	100	50
385714112264701	(C-21- 5) 29cbc- 1	100VLFL	900.00	07-30-97	2010	7.1	19.0	760	200	67
385715112271201	(C-21- 5) 30dbc- 3	100VLFL	773.00	06-04-97	1650	7.2	19.0	540	130	51
385511112243501	(C-22- 5) 10bbb- 2	--	338.00	06-04-97	1340	7.2	16.5	370	100	29
385135112250301	(C-22- 5) 33abd- 1	100VLFL	375.00	07-30-97	740	7.3	14.0	300	90	18
PIUTE COUNTY										
381440111584001	(C-29- 2) 35bad- 1	122BRHD	197.00	08-12-97	440	7.3	18.0	--	--	--
381003112010301	(C-30- 2) 28bdc- 1	--	135.00	08-12-97	450	7.6	13.0	--	--	--

GEOLOGICAL UNIT (AQUIFER)

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
110ALVM - ALLUVIUM, QUATERNARY AGE.
111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.

QUALITY OF GROUND-WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

279

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 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)
--	--	--------------------------------------	--	---	--	--	---	---	--	--	--	--

IRON COUNTY--Continued

109	4.7	163	140	41	1.7	61	504	1.49	--	<3.0	<1.0	281
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
14	3.4	136	11	26	0.21	59	253	1.04	<0.010	<3.0	<1.0	46
34	1.6	161	110	35	0.10	18	389	2.92	<0.010	<3.0	<1.0	108
14	2.0	317	120	7.8	0.17	17	503	0.962	<0.010	<3.0	<1.0	62

JUAB COUNTY

--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
40	2.0	274	200	53	0.18	13	635	--	--	7.1	<1.0	62

KANE COUNTY

--	--	--	--	--	--	--	--	--	--	--	--	--
3.4	2.1	115	4.4	3.1	0.11	13	145	2.51	--	<3.0	<1.0	30
--	--	--	--	--	--	--	--	--	--	--	--	--

MILLARD COUNTY

--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
37	1.4	179	15	30	0.20	14	270	2.15	<0.010	14	<1.0	88
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
94	4.0	366	140	120	0.17	27	781	5.41	<0.010	<3.0	<1.0	285
198	19	261	500	310	0.50	21	1470	1.44	<0.010	<9.0	<3.0	795
132	12	255	300	230	0.37	18	1030	1.24	0.022	9.8	<1.0	547
124	15	249	160	180	0.79	13	780	--	--	8.4	<1.0	743
35	1.7	162	26	130	<0.10	13	426	4.03	<0.010	<3.0	<1.0	64

PIUTE COUNTY

--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

123 DCRV - DUCHESNE RIVER FORMATION, OLIGOCENE AGE.
 124UINT - UINTAH FORMATION, EOCENE AGE.
 220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC-TRIASSIC AGE.
 220JRSC - JURASSIC SYSTEM, JURASSIC AGE.1

QUALITY OF GROUND-WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
SALT LAKE COUNTY										
404306112031201	(C-1-2)22bdd-4	100VLFL	35.00	06-17-97	2120	--	14.0	--	--	--
404045111594201	(C-2-1)6abc-4	100VLFL	440.00	06-17-97	1960	--	18.0	--	--	--
403658111542701	(C-2-1)25ccb-1	100VLFL	680.00	06-16-97	660	7.6	14.0	140	32	14
403533111570701	(C-3-1)4aac-1	100VLFL	491.00	07-22-97	1110	--	16.0	--	--	--
403408111543201	(C-3-1)12ccb-1	100VLFL	118.00	06-16-97	1200	7.6	18.0	280	60	31
404506111523301	(D-1-1)7abd-6	100VLFL	130.00	07-22-97	1270	7.3	15.5	550	130	54
404253111530901	(D-1-1)19cdb-17	100VLFL	500.00	07-22-97	1070	--	16.0	--	--	--
404040111503301	(D-2-1)4acb-1	100VLFL	230.00	07-22-97	1350	--	15.0	--	--	--
403332111485001	(D-2-1)35bbb-1	100VLFL	238.00	07-22-97	340	--	13.5	--	--	--
403252111522501	(D-3-1)19ada-1	100VLFL	177.00	06-16-97	1820	--	12.5	--	--	--
SAN JUAN COUNTY										
371716109325501	(D-40-22)30bbb-1	220JRSC	825.00	03-05-97	800	9.1	14.5	--	--	--
371621109211001	(D-40-23)27baa-1	220JRSC	672.00	03-05-97	3080	7.6	19.0	90	22	8.5
SEVIER COUNTY										
385910111512101	(C-21-1)13abd-1	--	291.00	08-13-97	750	9.1	21.0	--	--	--
384757112002201	(C-23-2)15dcb-4	--	75.00	08-13-97	690	7.8	13.0	--	--	--
384450112034001	(C-24-2)6abc-1	110ALVM	308.00	08-13-97	980	7.5	12.5	--	--	--
383140111522001	(C-26-1)23ddb-1	100VLFL	200.00	08-13-97	200	8.4	14.0	77	25	3.5
TOOELE COUNTY										
403818112191201	(C-2-4)17dcd-1	100VLFL	--	06-17-97	1430	--	13.0	--	--	--
403648112185001	(C-2-4)29adc-1	100VLFL	150.00	06-17-97	1620	--	11.0	--	--	--
403701112195001	(C-2-4)29bcc-1	100VLFL	300.00	06-17-97	1400	--	9.5	--	--	--
		100VLFL	300.00	06-17-97	1590	--	9.0	--	--	--
403748112261201	(C-2-5)20acc-1	100VLFL	240.00	06-23-97	1290	--	15.0	--	--	--
403800112243601	(C-2-5)21aad-1	100VLFL	230.00	06-24-97	3070	--	16.0	--	--	--
403745112253701	(C-2-5)21cbb-1	100VLFL	165.00	06-23-97	2250	--	14.5	--	--	--
403655112255501	(C-2-5)29adc-2	100VLFL	290.00	06-24-97	2220	--	15.0	--	--	--
403654112275201	(C-2-5)30bcc-1	100VLFL	445.00	06-17-97	960	--	10.5	--	--	--
403643112274601	(C-2-5)30cbd-1	100VLFL	275.00	06-17-97	1210	--	9.0	--	--	--
402525112251502	(C-4-5)32cca-2	100VLFL	210.00	08-06-97	2280	7.8	12.5	610	160	53
402320112252501	(C-5-5)17aad-1	--	20.00	08-07-97	1570	7.5	16.5	400	93	40
402211112254601	(C-5-5)20acc-2	--	245.00	08-06-97	3300	7.3	12.5	760	140	98
402208112251901	(C-5-5)20daa-1	--	--	09-10-97	6380	7.8	24.0	1200	200	161
402208112251902	(C-5-5)20daa-2	--	34.50	09-10-97	28200	7.1	12.5	13000	2900	1320
402124112270601	(C-5-5)30bda-2	--	21.00	08-07-97	2720	7.7	15.0	760	210	58
402010112273001	(C-5-5)31ccb-1	--	80.00	09-10-97	1040	7.3	12.5	360	100	25
402024112254601	(C-5-5)32ddb-2	100VLFL	112.00	08-06-97	1160	7.5	10.0	530	160	34
402050112330201	(C-5-6)32bba-S1	--	--	07-29-97	335	7.6	7.0	160	48	9.8
402023112290501	(C-5-6)35dba-2	--	115.00	08-06-97	1090	7.4	12.0	380	120	20
401851112243101	(C-6-5)9acb-1	--	31.00	07-29-97	82900	7.0	12.0	19000	940	4130
401845112283901	(C-6-6)12bcc-2	--	69.00	08-07-97	1480	7.2	12.5	380	110	25
UTAH COUNTY										
400315111572001	(C-9-1)4ccc-1	100VLFL	756.00	07-08-97	1230	7.7	16.0	290	75	26
395956111572101	(C-9-1)28ccb-1	--	802.00	06-24-97	1300	7.8	18.5	350	93	28
402259111525201	(D-5-1)18cab-2	100VLFL	618.00	08-04-97	320	7.5	16.0	120	25	13
402145111531101	(D-5-1)19ccc-1	110ALVM	150.00	07-11-97	700	7.9	15.0	310	77	28
402103111461601	(D-5-2)30ccb-2	--	225.00	07-10-97	840	7.6	12.0	380	85	41
401801111442501	(D-6-2)17aca-1	100VLFL	200.00	07-09-97	560	7.4	16.0	270	68	23
WASHINGTON COUNTY										
373456113423501	(C-37-17)12bdc-2	--	290.00	07-14-97	540	7.2	12.0	220	68	12
371305113470401	(C-41-17)17bdb-1	--	626.00	07-16-97	470	7.4	18.0	--	--	--
370915113232302	(C-42-14)11aca-2	--	--	08-14-97	1320	7.5	22.5	--	--	--

GEOLOGICAL UNIT (AQUIFER)

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 110ALVM - ALLUVIUM, QUATERNARY AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.

QUALITY OF GROUND-WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

281

DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	ALKA- LITY (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)
SALT LAKE COUNTY												
--	--	--	--	--	--	--	--	--	--	--	--	--
40	3.0	114	46	46	0.29	13	267	0.873	<0.010	5.0	<1.0	74
81	8.7	187	110	120	0.25	36	560	0.203	<0.010	6.4	<1.0	171
48	2.9	287	170	130	0.17	18	731	--	--	6.4	6.2	111
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
SAN JUAN COUNTY												
650	15	766	190	450	1.4	11	1810	0.050	<0.010	<9.0	14	1360
SEVIER COUNTY												
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
9.1	2.8	81	4.4	10	0.26	48	153	0.384	0.075	<3.0	<1.0	44
TOOELE COUNTY												
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
210	1.8	216	160	510	<0.10	15	1250	2.82	<0.010	<9.0	<3.0	85
134	24	217	190	250	2.3	40	911	2.23	<0.010	<3.0	65	339
329	13	240	270	790	0.65	32	1830	0.632	0.016	29	56	391
931	85	98	1700	1100	0.64	60	4320	<0.050	<0.010	96	50	1520
1840	21	127	1700	11000	0.11	33	18600	<0.050	0.035	270	5810	133
215	2.0	193	91	660	0.33	24	1400	4.08	<0.010	<9.0	5.6	213
84	8.1	352	35	83	0.21	15	586	4.54	<0.010	5.0	1.9	163
40	1.4	174	22	330	0.14	20	718	1.48	<0.010	9.0	<1.0	30
5.7	0.39	164	5.0	6.1	0.12	6.1	180	--	--	<3.0	<1.0	15
33	1.2	159	23	220	0.12	12	529	1.63	<0.010	15	<1.0	32
15400	190	274	9800	34000	0.74	31	64300	--	--	<120	8460	2620
70	1.3	261	59	150	0.25	17	597	0.607	<0.010	18	21	78
UTAH COUNTY												
127	9.4	133	90	220	0.28	63	719	6.61	<0.010	4.8	<1.0	142
111	14	131	110	230	0.27	<0.10	705	8.09	<0.010	<3.0	<1.0	148
18	1.8	124	7.3	19	0.34	17	177	0.311	<0.010	16	3.2	30
14	1.6	104	82	110	0.21	15	386	--	--	4.5	<1.0	25
37	1.6	258	150	22	0.29	14	502	--	--	200	<1.0	88
16	5.0	215	50	13	0.22	20	326	--	--	3.9	1.2	62
WASHINGTON COUNTY												
27	4.9	224	17	24	0.25	44	351	4.33	--	<3.0	<1.0	74
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

123 DCRV - DUCHESNE RIVER FORMATION, OLIGOCENE AGE.
124UINT - UINTAH FORMATION, EOCENE AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC-TRIASSIC AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.

QUALITY OF GROUND-WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

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)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
WASHINGTON COUNTY--Continued										
370517113310402	(C-42-15)34dba- 2	--	265.00	07-16-97	4440	6.9	18.0	--	--	--
WAYNE COUNTY										
382717111365601	(D-27- 3)19aaa- 1	--	285.00	08-13-97	1380	7.8	13.0	750	230	46
381902111321101	(D-29- 3) 1cab- 1	110ALVM	433.00	08-13-97	280	8.4	18.0	110	29	9.0
WEBER COUNTY										
411824112060601	(B- 7- 2)32bbb- 1	100VLFL	546.00	07-09-97	2440	7.7	18.5	--	--	--

GEOLOGICAL UNIT (AQUIFER)

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 110ALVM - ALLUVIUM, QUATERNARY AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.

QUALITY OF GROUND-WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

283

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)
--	--	--------------------------------------	--	---	--	--	--	---	--	--	--	--

WASHINGTON COUNTY--Continued

--	--	--	--	--	--	--	--	--	--	--	--	--
----	----	----	----	----	----	----	----	----	----	----	----	----

WAYNE COUNTY

30	4.0	179	600	11	<0.10	34	1070	2.13	0.048	<3.0	<1.0	92
9.5	3.3	64	59	8.3	0.16	49	206	0.308	0.036	75	<1.0	38

WEBER COUNTY

--	--	--	--	--	--	--	--	--	--	--	--	--
----	----	----	----	----	----	----	----	----	----	----	----	----

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

123 DCRV - DUCHESNE RIVER FORMATION, OLIGOCENE AGE.
 124UINT - UINTAH FORMATION, EOCENE AGE.
 220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC-TRIASSIC AGE.
 220JRSC - JURASSIC SYSTEM, JURASSIC AGE.

QUALITY OF GROUND-WATER IN SELECTED WELLS IN DUCHESNE COUNTY, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

STATION NUMBER	LOCAL IDENTIFIER	DEPTH OF WELL, TOTAL (FEET) (72008)	DATE	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
401012110292101	U(C- 3- 5)31dcd- 1	200.00 200.00	06-26-96 07-25-97	13.5 18.5	1860 790	9.3 7.4	150 11	0.050 0.029	-17.83 -16.69
401030110225701	U(C- 3- 4)31cab- 1	70.00 70.00	08-08-96 07-25-97	14.5 19.0	680 730	7.4 7.3	-- 8.2	-- 0.027	-17.08 -17.16
401124110305501	U(C- 3- 6)25cab- 1	120.00 120.00 120.00	06-27-96 08-08-96 07-25-97	11.0 13.0 19.0	900 910 920	9.4 9.4 9.4	2.4 2.7 2.5	0.040 0.040 0.025	-- -18.68 -18.66
401611110251502	U(C- 2- 5)35bab- 1	120.00 120.00	06-26-96 08-05-97	12.0 13.0	970 920	8.9 8.9	11 11	0.040 0.024	-17.39 --
401819110041601	U(C- 2- 2)14ddb- 1	465.00	08-05-97	13.0	415	7.9	2.7	0.014	-18.08
401919109593201	U(C- 2- 1) 9dad- 1	740.00	08-05-97	13.0	770	9.1	34	0.013	-17.27
401957110231701	U(C- 2- 4) 6ccb- 1	29.00	06-27-96	11.5	830	7.7	19	0.090	-15.34
402011110260901	U(C- 2- 5) 3bdd- 1	-- --	08-08-96 07-25-97	10.0 14.0	270 310	8.0 7.8	0.70 0.97	<0.010 <0.010	-16.13 -16.62
402103110235601	U(C- 1- 5)36caa- 1	--	08-08-96	13.0	1760	7.2	160	0.82	-14.99
402119110204201	U(C- 1- 4)33bdb- 1	-- --	08-08-96 07-25-97	12.0 12.0	3090 3100	6.9 6.9	86 110	0.51 0.50	-15.01 -14.98
402130110231301	U(C- 1- 4)31bbb- 1	-- --	08-08-96 07-25-97	13.0 13.0	730 820	7.5 7.2	14 16	0.060 0.093	-15.86 -15.71

*Samples are of water injected into these wells.

401430110291001*	(C- 3- 5)17aca- 1	08-05-97	26.0	11100	8.3	1900	4.8	0.81
401538110210501*	(C- 2- 4)32aac- 1	08-05-97	36.0	12700	7.8	3300	8.6	1.53

	Page		Page
Accuracy of field data and computed results	22	Chemical-oxygen demand, definition of	13
laboratory analysis, explanation of	26	Clear Creek above diversions, near Sevier	242
Access to WATSTORE data	26	Clover Creek above Big Hollow, near Clover	233
Acre-foot, definition of	13	Coal Creek near Cedar City	253
American Fork above upper powerplant, near American Fork	224	Colorado River basin, gaging-station records in . . .	34
Aquifer, definition of	13	Colorado River near Cisco	38
Artesian, definition of	13	water-quality records	39
Ashley Creek below Union Canal diversion, near Jensen	65	near Colorado-Utah State line	34
water-quality records	66	Contents, definition of	13
near Vernal	63	Control, definition of	13
Bacteria, definition of	13	structure, definition of	13
Bear Lake at Lifton, near St. Charles, ID	172	Cooperation	1
outlet canal near Paris, ID	173	Cubic foot per second, definition of	13
Bear River above reservoir, near Woodruff	164	Currant Creek (Jordan River Basin) near Mona. . . .	210
at Alexander, ID	177	near Fruitland	72
at Border, WY	170	Cutler Reservoir near Collinston	186
at Evanston, WY	163	Daniels Creek above diversions near Heber City . .	220
at Idaho-Utah State line	181	at Charleston	221
at Pescadero, ID	174	Data Presentation, explanation of	20
at Soda Springs, ID	175	Davis County, quality of ground water	276
below Grace Dam, near Grace, ID	178	Definition of terms	13
below Pixley Dam, near Cokeville, WY	167	Diamond Fork below Red Hollow, near Thistle	211
below reservoir, near Woodruff	165	Dirty Devil River basin, gaging-station records in . .	114
below Smiths Fork, near Cokeville, WY	169	Discharge, definition of	13
below Utah Power & Light Co.'s tailrace, at Oneida, ID	180	annual 7-day minimum, definition of	13
near Collinston	189	instantaneous, definition of	13
near Corinne	190	mean, definition of	13
near Utah-Wyoming State line	161	total, definition of	13
Bear River basin, gaging-station records in	161	Dissolved, definition of	13
Beaver County, ground water levels in	256	solids, concentration, definition of	13
quality of ground water	276	Dolores River basin, gaging-station records in	35
Beaver Dam Wash near Enterprise, AZ	156	Dolores River near Cisco	35
Beaver Dam Wash at Beaver Dam, AZ	157	water-quality records	36
Beaver River at Adamsville	251	Downstream order and station number	16
at Rocky Ford Dam, near Minersville	252	Drainage area, definition of	14
near Beaver	250	basin, definition of	14
Beaver River basin, gaging-station records in	250	Duchesne County, quality of ground water	276
Big Brush Creek above Red Fleet Reservoir, near Vernal	62	Duchesne River above Knight diversion, near Duchesne	70
Big Creek near Randolph	166	at Myton	79
Biochemical oxygen demand, definition of	13	near Randlett	82
Blacks Fork, near Millburne, WY	52	water-quality records	83
near Robertson, WY	51	near Tabiona	68
Box Elder County, ground water levels in	256	West Fork, above North Fork, near Hanna	67
quality of ground water	276	Dunn Creek near Park Valley	236
Cache County, quality of ground water	276	East Canyon Creek near Morgan	200
Castle Creek below Castleton, near Moab	47	East Canyon Reservoir near Morgan	199
below Castle Valley, near Moab	48	Echo Reservoir at Echo	196
Cedar City Valley, gaging-station records in	253	Electric Lake near Scofield	105
Chalk Creek at Coalville	195	Ephraim Tunnel near Ephraim	107
		Epilimnion, definition of	14
		Escalante River basin, gaging station records in . . .	118
		Escalante River near Escalante	119

	Page		Page
Eutrophic, definition of	14	Kanab Creek basin, gaging-station records in	133
Eutrophication, definition of	14	Kanab Creek near Kanab	133
Explanation of ground-water level records	26	Kane County, ground water levels in	258
stage- and water-discharge records	19	quality of ground water	278
water-quality records	23		
Fairview Tunnel near Fairview	88	Laboratory analysis, explanation of	26
Faust Creek near Vernon	232	Lake Fork River above Moon Lake, near Mountain Home	74
Fecal coliform bacteria, definition of	13	below Moon Lake, near Mountain Home	76
streptococcal bacteria, definition of	13	Lakes and Reservoirs:	
Ferron Creek (upper station) near Ferron	110	Bear Lake at Lifton, near St. Charles, ID	172
Fish Creek above reservoir, near Scofield	90	Cutler Reservoir near Collinston, ID	186
Fremont River near Bicknell	115	East Canyon Reservoir near Morgan	199
near Caineville	116	Echo Reservoir at Echo	196
		Electric Lake near Scofield	105
Gage height, definition of	14	Great Salt Lake at State Park Saltair Beach Boat Harbor	158
Gaging station, definition of	14	Great Salt Lake near Saline	160
Gooseberry Creek near Scofield	89	Joes Valley Reservoir near Orangeville	109
Great Basin, gaging station records in	158	Lost Creek Reservoir near Croydon	198
Great Salt Lake at Promontory Point	159	Moon Lake Reservoir near Mountain Home	75
Great Salt Lake at State Park Saltair Beach Boat Harbor	158	Oneida Narrows Reservoir at Oneida, ID	179
near Saline	160	Pineview Reservoir near Ogden	203
Great Salt Lake basin, gaging-station records in	158	Rockport Reservoir near Wanship	192
Great Salt Lake Desert, gaging-station records in	236	Scofield Reservoir near Scofield	92
Green River at Green River	96	Soda Point Reservoir at Alexander, ID	172
water-quality records	97	Land surface datum, definition of	14
near Greendale	54	Leap Creek above Maple Hollow, near Pintura	140
water-quality records	55	Leeds Creek near Leeds	142
near Green River, WY	50	Little Bear River at Paradise	182
near Jensen	60	Logan, Hyde Park, & Smithfield Canal at Head near Logan	183
water-quality records	61	Logan River above State dam, near Logan	184
Green River basin, gaging-station records in	50	Lost Creek Reservoir near Croydon	198
Ground water levels	256		
		Mammoth Creek (head of Sevier River) above West Hatch ditch, near Hatch	237
Hammond (East Side) Canal near Collinston	187	Manti Creek below Dugway Creek, near Manti	245
Hardness, definition of	14	Measuring point, definition of	14
Huntington Creek near Huntington	106	Meso-eutrophic, definition of	14
Hydrologic Bench Mark Network	17	Micrograms per liter, definition of	14
conditions, summary of	2	Mill Creek at Sheley Tunnel near Moab	49
unit, definition of	14	Millard County, ground-water levels in	259
Hypolimnion, definition of	14	quality of ground water	278
		Milligrams per liter, definition of	14
Introduction	1	Moon Lake Reservoir near Mountain Home	75
Iron County, ground water levels in	257	Mosby Canal near LaPoint	64
quality of ground water	276	Mud Creek below Winter Quarters Canyon at Scofield	91
Joes Valley Reservoir near Orangeville	109	Muddy Creek near Emery	117
Johnson Wash above Flood Canyon, near Kanab	134		
Jordan River at Salt Lake City	228		
Jordan River basin, gaging-station records in	213		
Juab County, ground water levels in	258		
quality of ground water	278		

	Page		Page
National Stream Quality Accounting Network (NASQAN)	17	San Juan River basin, gaging-station records in . . .	122
National Trends Network (NTN)	17	San Rafael River near Green River	111
National Water-Quality Assessment (NAWQA) Program	19	water-quality records	112
Numbering system for wells and miscellaneous sites	16	Santa Clara River above Baker Reservoir, near Central	150
Oak Creek (tributary to Sevier River), above Little Creek, near Oak City	249	at Gunlock	151
Ogden River below Pineview Reservoir, near Huntsville	204	at St. George	153
South Fork (head of Ogden River), near Huntsville	202	below Winsor Dam, near Santa Clara	152
Oneida Narrows Reservoir at Oneida, ID	179	near Pine Valley	149
Other data available	23	Scofield Reservoir near Scofield	92
Partial-record station, definition of	14	Sea level, definition of	15
Particle-size, definition of	14	Sediment, explanation of	25
classification, definition of	14	definition of	15
Percent composition, definition of	15	mean concentration, definition of	15
Picocurie, definition of	15	suspended, definition of	15
Pine Creek near Escalante	118	suspended concentration, definition of	15
Pineview Reservoir near Ogden	203	suspended discharge, definition of	15
Piute County, quality of ground water	278	suspended load, definition of	15
Price River at Woodside, water-quality records	95	total discharge, definition of	15
Price River near Heiner	94	total load, definition of	15
Provo River at Provo	223	Settlement Creek above Reservoir, near Tooele . . .	234
below Deer Creek Dam	222	Seven Mile Creek near Fish Lake	114
near Charleston	218	Sevier County, quality of ground water	280
near Hailstone	215	Sevier Lake basin, gaging-station records in	237
near Midway	216	Sevier River at Hatch	238
near Woodland	213	below Piute Dam, near Marysville	241
North Fork, near Kamas		below San Pitch River, near Gunnison	246
Rainbow inlet canal near Dingle, ID	171	East Fork, near Kingston	240
Recapture Creek near Blanding	121	near Juab	247
Red Butte Creek at Fort Douglas, near Salt Lake City	230	near Kingston	239
Red Creek above reservoir near Fruitland	71	near Lynndyl	248
Remark codes	24	near Sigurd	243
Reservoirs; see Lakes and Reservoirs		Smiths Fork (tributary to Bear River) near Border, WY	168
Rock Creek near Mountain Home	69	Smiths Fork (tributary to Blacks Fork), East Fork of, near Robertson, WY	53
Rockport Reservoir near Wanship	192	Snake Creek near Charleston	219
Rush Valley, gaging station records in		Soda Point Reservoir at Alexander, ID	176
Salina Creek near Emery	244	Sodium adsorption ratio, definition of	15
Salt Creek at Nephi	207	Solute, definition of	15
below Nephi powerplant diversion, near Nephi . .	206	South Creek above reservoir near Monticello	120
Salt Lake County, ground water levels in	260	South Willow Creek near Grantsville	235
quality of ground water	280	Spanish Fork at Castilla	212
San Juan County, ground water levels in	261	Special networks and programs	17
quality of ground water	280	Specific conductance, definition of	15
San Juan River near Bluff	122	Spring City Tunnel near Spring City	108
water-quality records	123	Spring Creek near Heber	217
		St. George-Washington Canal near Washington . . .	144
		water-quality records	145
		Station manuscript, explanation of	20
		Stage-discharge relation, definition of	15
		Stratification, definition of	15
		Strawberry River near Duchesne	73
		Streamflow, definition of	15

	Page		Page
Sulpher Creek (tributary to Bear River) above reservoir, below LaChapelle Creek, near Evanston, WY	162	Wasatch County, ground water levels in	263
Summary of Hydrologic Conditions	2	Washington County, ground-water levels in	272
Surface area, definition of	15	quality of ground water	280
Surplus Canal at Salt Lake City	227	Water analysis, explanation of	23
Suspended, definition of	15	temperature, explanation of	25
total, definition of	16	year, definition of	16
Tailrace at Stairs plant, near Salt Lake City	226	Wayne County, quality of ground water	282
Thermograph, definition of	16	WDR, definition of	16
Tons per acre-foot, definition of	16	Weber County, ground water levels in	274
per day, definition of	16	quality of ground water	282
Tooele County, ground water levels in	261	Weber River at Echo	197
quality of ground water	280	at Gateway	201
Tooele Valley, gaging-station records in	232	near Wanship	193
Total, definition of	16	near Coalville	194
load, definition of	16	near Oakley	191
Uinta River below powerplant diversion near Neola	80	near Plain City	205
Uintah County, ground water levels in	262	Weber-Provo diversion canal near Woodland	214
Utah County, ground water levels in	262	Weber River basin, gaging station records in	191
quality of ground water	280	Weighted average, definition of	16
Vernon Creek near Vernon	231	West Canyon Creek near Cedar Fort	225
Virgin River at Virgin	139	West Side Canal near Collinston	188
East Fork, near Glendale	135	Wet Sandy Creek near Pintura	141
East Fork, near Mount Carmel Junction	136	White River (tributary to Price River) below Tabbyune Creek, near Soldier Summit	93
East Fork, near Springdale	137	White River near Watson	86
near Bloomington	154	water-quality records	87
near Hurricane	143	Whiterocks River near Whiterocks	81
near St. George	155	WSP, definition of	16
North Fork, near Springdale	138	Yellowstone River at Bridge Campgroundn, near Altonah	77
Virgin River basin, gaging-station records in	135	Yellowstone River near Altonah	78

CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
<i>Length</i>		
inch (in.)	2.54×10^1	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^0	kilometer
<i>Area</i>		
acre	4.047×10^3	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590×10^0	square kilometer
<i>Volume</i>		
gallon (gal)	3.785×10^0	liter
	3.785×10^0	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^3	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^1	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^3	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
<i>Flow</i>		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second
	2.832×10^1	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^1	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
<i>Mass</i>		
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

U.S. DEPARTMENT OF THE INTERIOR

U.S. Geological Survey

1745 West 1700 South, Room 1016 Administrative Bldg.

Salt Lake City, UT 84104

