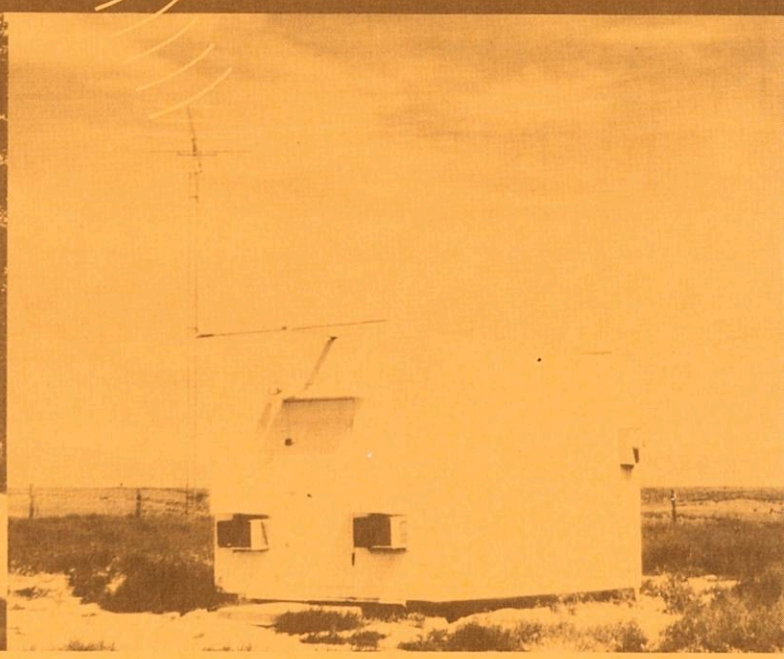
WATER SUPPLY OUTLOOK FOR UTAH



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

UTAH STATE DEPARTMENT OF NATURAL RESOURCES
-- DIVISION OF WATER RIGHTS

AS OF
JAN. 1, 1978

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

WATER SUPPLY OUTLOOK FOR UTAH

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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USDA-SCS-PORTLAND, OR. 1977, M7-L-22027B

WATER SUPPLY OUTLOOK

as of
JANUARY 1, 1978

* *
* Utah's 1978 water supply outlook ranges from near average *
* in the northern half of the state to poor in the southern *
* half. Snow cover is generally above average in the north *
* and less than half average in the south. Watershed soil *
* moisture is near average in the northern mountains and well *
* below average in the southern mountains. Storage in 23 *
* irrigation reservoirs is 88% of average, but 25% less than *
* a year ago. *
* *

SNOW COVER

Snow surveys taken the last week of December and the first week to ten days of January indicate average to above average water contents in the northern half of the state and generally well below average again this year in southern Utah. January 1 is very early to make an accurate assessment of conditions, since the next three months normally produce significant increases to the snow pack.

Measurements in northern Utah range from about average on the San Pitch River to as high as 190% of average at Tony Grove Ranger Station on the Logan River. Snow water contents along the Salt Lake front range from 97% of average at Silver Lake to 108% at Parley's Summit. Water contents on the Upper Weber and Provo Rivers range from 88% of average on Smith & Morehouse to 144% at Trial Lake and 156% at Soapstone. Strawberry River ranges from 119% at Daniels Summit to 159% at East Portal. Price River ranges from 96% to 127% of the January 1 average and San Pitch snow water contents ranged from 83% at Beaver Dams to 113% at GBRC Meadows.

Snow surveys made in southern Utah had water contents ranging from 85-89% on Salina Creek to 26-31% on the East Fork Sevier and 46-103% on the South Fork Sevier. The 103% of average is a low elevation measurement at Harris Flat and not representative of the higher water producing areas which range from 46-69% of the January 1 average. Parowan Creek is 44% and Pine Creek near Fillmore 26% of the January 1 average snow water content. Uintah Basin measurements have been delayed by poor flying weather.

PRECIPITATION

Fall precipitation in Utah's mountains was very similar to the snow cover with the northern half of the state generally average to near twice average except for the east end of the Uintahs which was only about half average for the October through December period. The southern half of the state ranged generally in the 45-70% of average range with only a few sites near average. Watershed soils are expected to be near average in northern Utah and below average in southern Utah.

WATER SUPPLY OUTLOOK (continued)

RESERVOIR STORAGE

January 1 storage in 23 of Utah's irrigation reservoirs is 88% of average and 25% less than last year at this time.

Reservoirs on Bear River range from 6% of average in Woodruff Narrows, to 81% for Bear Lake. Hyrum and Porcupine on the Little Bear are 110% and 71% of average respectively.

Ogden River reservoirs are near average with Pineview 95% and Causey 90% of the January 1 average.

Weber River reservoirs range from 62% of average at Rockport to 111% at Echo. Willard Bay and East Canyon are 102% and Lost Creek is 75% of average.

Deer Creek reservoir is 71% of average and Utah Lake is 108% of the January 1 average. Strawberry Reservoir is 124% of average.

Sevier River reservoirs range from 32% at Piute to 83% at Sevier Bridge with Otter Creek at 52% of average. Gunnison Reservoir on the San Pitch is only 6% of the January 1 average.

Uintah Basin reservoirs now have 32% of the January 1 average in Steinaker and 59% of average storage in Moon Lake.

Scofield Reservoir has 62% of the January 1 average and Joe's Valley has 111% of its average for January 1.

Most reservoirs in northern Utah should fill this year if at least average storm conditions prevail this spring. Reservoirs in southern Utah are not expected to fill unless much above average storm conditions occur during the January through April period.

STREAMFLOW

Streamflow on key streams over the state has been below average for the October-December period and the Great Salt Lake reached a seasonal low of 4198.60 feet on December 1 according to the U.S. Geological Survey.

Streamflow forecasts will be published beginning in the February 1, Water Supply Outlook for Utah report.

WSFB-X2C-L

RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

January 1, 1978

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storag. This Year	Usable Storag. Last Year	Usable Storag. Average+
GREAT BASIN					
Bear River	Bear Lake	1421.0	764.0	1059.0	944.4
	Woodruff Narrows	26.5	1.2	1.1	19.8b
	Birch Creek	2.2	0.4	--	--
	Woodruff Creek	4.0	0.7	--	--
Beaver River	Minersville (RkyFd)	23.3	3.3	5.8	9.6
Little Bear	Hyrum	15.3	10.1	10.2	9.2
	Porcupine	11.3	2.2	2.8	3.1b
Ogden	Causey	6.9	1.9	0.8	2.1b
	Pineview	110.1	36.2	52.4	38.2
Provo	Deer Creek	149.7	69.0e	80.5	95.3
Settlement Creek	Settlement Creek	1.2	0.3	--	--
	Vernon Creek		0.2e	--	--
Sevier River	Gunnison	18.2	0.5	7.0	7.7
	Otter Creek	52.5	11.5	23.6	21.9
	Piute	71.8	9.6	13.7	29.8
	Sevier Bridge	236.0	58.3	94.7	70.1
Spanish Fork	Strawberry	270.0	137.9	202.6	110.9
Utah Lake	Utah Lake	883.9	558.9	687.5	519.7
Weber	East Canyon	48.1	18.5	29.0	17.6
	Echo	73.9	39.0	37.9	35.3
	Lost Creek	20.0	9.1	12.7	12.0b
	Rockport	60.9	19.3	27.4	30.1
	Willard Bay	193.3	104.9	137.9	102.6b
COLORADO RIVER BASIN					
Ashley Creek	Steinaker	33.3	5.7	18.2	21.3
Colorado	Blue Mesa	829.5	235.3	478.3	--
	Lake Powell	25002.0	15363.0	18477.0	--
Green	Flaming Gorge	3749.0	1990.7	3129.3	--
Lakefork	Moon Lake	35.8	8.6	4.9	14.5
Price River	Scofield	65.8	17.3	29.3	27.8
San Juan	Navajo	1696.0	977.9	1205.0	--
San Rafael	Huntington North	3.9	1.8	1.9	1.5b
	Joe's Valley	54.6	33.0	36.3	29.8b
	Mill Site	16.7	0.3	1.3	--
Strawberry	Starvation	165.3	131.7	136.8	--
Uintah	Bottle Hollow	11.3	10.0	10.5	--

e= Estimated

USDA-SCS-PORTLAND, OREG. 1969

SNOW — PRECIPITATION (Inches)

January 1, 1978

DRAINAGE BASIN and or SNOW COURSE NAME	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (Inches): Last Year	PAST RECORD: Water Content (Inches): Average +	CURRENT INFORMATION: Date of Reading	CURRENT INFORMATION: Month's Precipitation	CURRENT INFORMATION: Average +	FROM APPROX. OCT 1 TO DATE: This Year	FROM APPROX. OCT 1 TO DATE: Average +	FROM APPROX. OCT 1 TO DATE: Percent of Average
GREAT BASIN											
UPPER BEAR RIVER (Above Harer, Idaho)											
Burts-Miller Ranch	12/27	11	2.2	0.3	- -	12/27	- -	- -	3.79	3.35b	113
CCC Camp	12/29	34	9.4	0.8	4.9						
Hayden Fork	12/27	36	8.9	1.0	- -	12/27	- -	- -	11.91	6.00b	198
Monte Cristo R.S.	1/9	48	15.6	0.6	- -	1/9	- -	- -	16.41	7.92b	207
Salt River Summit	12/29	43	11.2	0.9	- -	12/29	7.00	- -	11.87	7.04	169
Stillwater Camp	12/27	25	5.5	0.5	- -	12/27	- -	- -	7.01	2.96	237
LOWER BEAR RIVER (Below Harer, Idaho)											
Cub River R.S.	1/4	23	6.0	0.0	- -						
Emigrant Summit	1/3	62	17.1	0.8	9.6						
Franklin Basin (Pillow)	1/9	71	22.5	0.8	- -						
Garden City Summit	12/30	42	11.0	0.4	7.5a	12/30	- -	- -	14.70a	8.82b	167
Klondike Narrows	1/9	54	17.3	0.0	7.6b	1/9	- -	- -	17.80e	8.87b	201
Little Bear (lower)	1/9	27	6.1	0.0	- -						
Little Bear (upper)	1/9	28	6.4	0.0	- -						
Slug Creek Divide	12/27	39	10.4	3.3	- -						
Steep Hollow #1	Not Measured			1.2	14.8b						
Steep Hollow #2	Not Measured			0.0	9.6b						
Tony Grove Lake	1/9	97	32.2	0.6	- -						
Tony Grove R.S.	12/30	39	9.0	0.0	4.6	12/30	- -	- -	14.38	8.73a	165
Willow Flat	1/4	39	10.6	0.0	- -	1/4	10.09	- -	18.90	10.05b	188
Worm Creek	Not Measured										
OGDEN RIVER											
Beaver Creek-Skunk Creek	1/5	23	7.2	0.0	- -						
Ben Lomond Peak	1/9	63	18.9	0.2	13.7b						
Ben Lomond (lower)	1/4	29	8.0	0.0	5.5	1/4	- -	- -	14.67	11.36	129
Causey Dam						1/5	- -	- -	6.88	6.49b	106
Cutler Creek	Not Measured			0.0	9.9b						
Dry Bread Pond	1/5	37	12.0	0.0	- -			- -		6.87	
Sagebrush Flat	1/5	14	2.4	0.0	- -	1/5	- -	- -	8.20	4.86	169
WEBER RIVER											
Beaver Creek R.S.	1/5	22	5.1	0.0	3.7						
Chalk Creek #1	12/27	44	11.6	1.8	- -						
Chalk Creek #2	12/27	28	5.7	1.5	- -						
Chalk Creek #3	12/27	14	3.3	0.2	- -	12/27	- -	- -	7.45	- -	- -
Farmington Canyon (lower)	1/9	36	9.3	0.0	8.6b	1/9	8.55	- -	13.60	- -	- -
Farmington Canyon (upper)	1/9	47	13.8	0.4	11.9b						
Farmington G.S.						1/9	9.90	- -	15.70	- -	- -
Horse Ridge	1/9	46	13.8	0.1	- -	1/9	- -	- -	15.87	8.96b	177
Kilfoil Creek	Not Measured			0.0	- -						
Lost Creek Reservoir	1/9	15	3.3	0.0	- -	1/9	- -	- -	6.32	3.87b	163
Park City Summit	12/30	34	10.1	- -	- -			- -			
Parley's Canyon Summit	12/28	29	8.1	0.4	7.5	12/28	- -	- -	11.23	10.22	110
Redden Mine (lower)	Not Measured			0.5	- -						
Redden Mine (upper)	Not Measured							- -		- -	
Smith & Morehouse	12/27	23	5.6	0.5	6.4b	12/27	- -	- -	9.50	8.36	114
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide	1/5	33	8.0	0.2	- -						
Camp Altamont	12/27	18	5.2	0.3	6.4						
Clear Creek Ridge #1	1/4	36	9.3	1.2	- -						
Clear Creek Ridge #2	1/4	28	6.8	0.8	- -	1/4	- -	- -	9.45	- -	- -
Clear Creek Ridge #3	1/4	18	4.7	0.3	- -						
Dutchman R.S.	12/27	28	7.7	0.2	- -	12/27	- -	- -	11.05	8.27b	134
Hobble Creek Summit	12/27	27	5.9	0.2	- -	12/27	- -	- -	6.40	- -	- -
Packard Canyon	12/27	13	2.9	0.3	- -						
Payson R.S.	1/4	24	5.5	1.9	7.0	1/4	- -	- -	7.60	8.21	93
Rock Bridge	1/4	16	3.4	1.5	4.8						
Soapstone R.S.	1/5	32	8.1	0.1	5.2	1/5	- -	- -	9.97	7.06	141
South Fork R.S.	1/5	13	3.2	0.1	2.4						
Timpanogos Cave Camp	1/5	1	0.2	0.0	0.9						
Timpanogos Divide	12/27	28	7.7	0.3	10.5	12/30	5.70	- -	11.70	11.98	98
Trial Lake	1/5	60	15.1	0.5	10.5	1/5	- -	- -	14.80	10.07	147

+ 1958-1972 period.

USDA SCS PORTLAND, OREGON 1974 M7-10-22(27)

January 1, 1978

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
				Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
JORDAN RIVER & GREAT SALT LAKE											
Bevans Cabin	Not Measured				- -						
Lamb's Canyon #2	12/28	24	7.2	0.2	- -	12/28	- -	- -	9.78	- -	- -
Middle Canyon	12/29	7	2.2	1.8	5.7	12/29	2.50	- -	- -	7.28b	- -
Mill Creek	12/28	26	7.0	0.8	- -						
Mill D South Fork	12/29	24	7.4	0.4	7.3						
Mt. Dell Dam						12/30	2.44	- -	6.34	6.56	97
Silver Lake (Brighton)	12/29	34	9.6	0.3	9.9	12/30	6.66	4.80	12.52	12.44	101
Snow Bird (Gad Valley)	1/8	72	22.0	- -	- -						
Vernon Creek	12/29	7	1.8	0.0	- -	12/29	2.20	- -	3.50	- -	- -
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	1/5	19	3.5	1.9	- -	1/5	- -	- -	5.78	- -	- -
Bryce Canyon	12/29	6	0.5	0.0	1.9						
Castle Valley	1/3	11	3.3	0.6	- -	1/3	- -	- -	3.35	4.68	72
Duck Creek R.S.	1/3	16	3.6	0.0	5.2	1/3	- -	- -	4.40	8.37	53
Farview	12/29	8	1.0	0.0	- -						
Harris Flat	1/3	12	4.0	0.0	3.9						
Kimberly Mine	1/5	22	4.9	3.2	5.5b	1/5	- -	- -	7.05	7.46	95
Midway Valley	1/3	18	4.1	1.0	8.9	1/3	- -	- -	4.25	- -	- -
Panguitch Lake	1/3	6	1.0	0.0	- -	1/3	- -	- -	2.00	2.87	70
Rainbow Point	12/29	9	1.4	0.0	- -						
Squaw Springs	1/5	12	2.2	0.7	- -						
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	1/4	19	3.9	1.6	4.2b	1/4	- -	- -	6.17	5.42	114
Farnsworth Lake	1/5	28	6.6	3.5	7.3	1/5	- -	- -	7.85	8.22	95
G.B.R.C. Headquarters	1/3	25	5.7	2.3	6.4	1/3	4.00	3.10	9.05	8.00	113
G.B.R.C. Majors						1/3	1.32	1.80	4.27	4.60	93
G.B.R.C. Meadows	1/3	33	9.7	3.0	8.6	1/3	4.95	3.80	10.95	9.90	111
G.B.R.C. Oaks						1/3	1.69	2.00	5.35	5.40	99
Gooseberry R.S.	1/5	18	3.9	1.7	4.6	1/5	- -	- -	6.45	7.99	81
Mammoth-Cottonwood Creek	1/4	38	11.1	0.2	8.0b	1/4	- -	- -	12.53	8.09b	155
Middle Fork	Not Measured			- -	- -						
Mt. Baldy R.S.	1/4	40	9.0	2.3	8.8b	1/4	- -	- -	8.00	8.24b	97
Oak Creek	12/28	12	2.7	- -	- -	12/28	- -	- -	4.35	- -	- -
Pickle Keg Springs	1/4	29	7.0	2.4	- -						
Pine Creek	1/5	21	4.4	3.9	- -	1/5	- -	- -	7.75	- -	- -
Ree's Flat	1/4	22	4.9	1.2	- -	1/4	- -	- -	6.95	- -	- -
Shingle Mill	12/28	3	1.0	- -	3.8b	12/28	- -	- -	3.28	6.31	52
Thistle Flat	Not Measured			2.2	- -						
BEAVER RIVER											
Beaver Race Track	12/28	0	0.0	0.0	- -						
Beaver Canyon Power House						12/30	1.61	- -	3.37	4.12	82
Big Flat	1/5	25	4.8	1.7	- -	1/5	- -	- -	4.78	4.86	98
Merchant's Valley (upper)	1/5	18	3.6	1.4	- -	1/5	- -	- -	5.95	4.26a	140
Otter Lake	1/5	18	3.0	1.1	- -						
PAROWAN CREEK											
Birch Crossing	12/28	4	0.9	0.1	- -						
Brian Head	12/30	20	4.2	2.2	9.5a						
Ed Ward Flat	12/30	7	0.9	0.2	- -						
Tall Poles	12/28	12	2.8	1.2	- -	12/28	- -	- -	2.85	6.46a	44
Yankee Reservoir	12/30	6	0.9	0.6	- -	12/30	- -	- -	2.50	3.95	63
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	1/3	0	0.0	0.0	- -	1/3	- -	- -	2.10	4.40	48
Long Flat	1/3	9	2.1	0.0	- -	1/3	- -	- -	3.35	3.48	96
COAL CREEK											
Cedar City Golf Course	Not Measured			- -	- -						
SUSC Ranch	12/28	7	1.5	0.0	- -						

+ 1958-1972 period.

USDA SCS PORTLAND, OREGON 1974 M7-0-22021X

SNOW — PRECIPITATION (Inches)

January 1, 1978

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (Inches): Last Year	PAST RECORD: Water Content (Inches): Average +	CURRENT INFORMATION: Date of Reading	CURRENT INFORMATION: Month's Precipitation	CURRENT INFORMATION: Average +	FROM APPROX. OCT. 1 TO DATE: This Year	FROM APPROX. OCT. 1 TO DATE: Average +	FROM APPROX. OCT. 1 TO DATE: Percent of Average
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Black's Fork G.S.-East Fork	Not Measured			0.8	- -			- -		5.54	
Black's Fork Junction	Not Measured			0.5	- -			- -		2.23b	
Burnt Creek	12/30	7	1.3	0.5	- -	12/30	- -	- -	2.75	4.94b	56
Dutch John Junction	12/30	7	1.4	- -	- -						
Grizzly Ridge	12/30	13	2.8	0.3	- -	12/30	- -	- -	3.50	6.96b	50
Hewinta G.S.	Not Measured			0.9	- -			- -		2.45	
Hickerson Park	Not Measured			1.0	- -			- -		2.59a	
Highline Trail	Not Measured			1.6	- -			- -		- -	
King's Cabin (lower)	Not Measured			0.0	- -						
King's Cabin (upper)	Not Measured			0.3	- -			- -		3.56b	
Spirit Lake	Not Measured			1.7	- -					4.94b	
Steel Creek Park	Not Measured			2.1	- -						
Trout Creek	Not Measured			0.8							
DUCHESNE RIVER											
Brown Duck Ridge	Not Measured			0.5	- -						
Currant Creek	12/29	21	5.0	0.0	- -	12/29	- -	- -	6.30	- -	- -
Daniels-Strawberry Summit	12/27	27	7.0	0.0	5.9	12/27	- -	- -	10.43	8.13	128
East Portal	12/30	26	7.0	0.0	4.4b	12/30	5.04	- -	9.93	8.92b	111
Indian Canyon	1/6	30	6.3	0.4	5.2	1/6	- -	- -	7.41	6.71b	110
Jackson Park	Not Measured			0.3	- -			- -		- -	- -
Lake Basin	Not Measured			0.2	- -			- -		- -	- -
Lakefork Mountain	Not Measured			0.1	- -			- -		3.11	
Lakefork Mountain #2	Not Measured			- -	- -						
Lakefork Mountain #3	Not Measured			0.0	- -						
Mosby Mountain	Not Measured			0.1	4.6			- -		5.15a	
Paradise Park	Not Measured			0.0	5.8			- -		8.30	
Rock Creek Ranch	Not Measured			0.1	- -			- -		2.18	
Strawberry Divide	12/30	36	9.9	0.0	7.4b						
PRICE RIVER											
Dry Valley Divide	12/29	21	5.2	0.3	4.2b						
Gooseberry Reservoir	1/4	34	9.8	0.1	7.2b	1/4	- -	- -	11.44	7.99	143
Jones Ranch	12/29	11	2.5	0.0	2.6b						
Mud Creek	12/29	28	7.1	0.4	5.6	12/29	- -	- -	7.95	6.56	121
White River #1	12/29	25	7.2	0.5	- -	12/29	- -	- -	7.80	4.46	175
White River #2	12/29	22	5.8	0.1	- -						
White River #3	12/27	19	5.7	0.0	- -						
SAN RAFAEL RIVER											
Buck Flat	1/3	30	8.0	0.5	- -	1/3	- -	- -	9.75	5.68	172
Huntington-Horseshoe	1/4	36	11.0	1.2	- -						
Orange Olsen	12/29	6	1.0	0.0	- -	12/29	- -	- -	2.55	2.81a	91
Red Pine Ridge	12/29	25	7.2	0.5	- -	12/29	- -	- -	10.83	6.32	171
Rush Pond	1/3	27	6.1	0.5	- -						
Seeley Creek R.S.	1/3	21	5.9	0.8	- -						
Stuart R.S.	12/29	16	5.5	0.0	- -	12/29	- -	- -	6.30	3.94	160
Upper Joe's Valley	12/29	19	5.0	0.3	- -						
Wrigley Creek	1/3	20	5.3	0.2	- -						
MUDDY RIVER											
Black's Fork	1/3	24	5.9	0.5	- -						
Dill's Camp	1/3	28	7.0	0.2	- -	1/3	- -	- -	8.28	3.93a	211
FREMONT RIVER											
Black's Flat-U.M. Creek	1/5	21	4.0	1.5	- -	1/5	- -	- -	6.42	3.69	174
Donkey Reservoir	Not Measured				- -						
Fish Lake	1/5	12	2.0	0.6	- -	1/5	- -	- -	4.70	2.56b	184
Johnson Valley	1/5	14	2.7	0.7	- -						

+ 1958-1972 period.

USDA SCS PORTLAND, OREGON 1974 M7-0-22027Y

SNOW — PRECIPITATION (Inches)

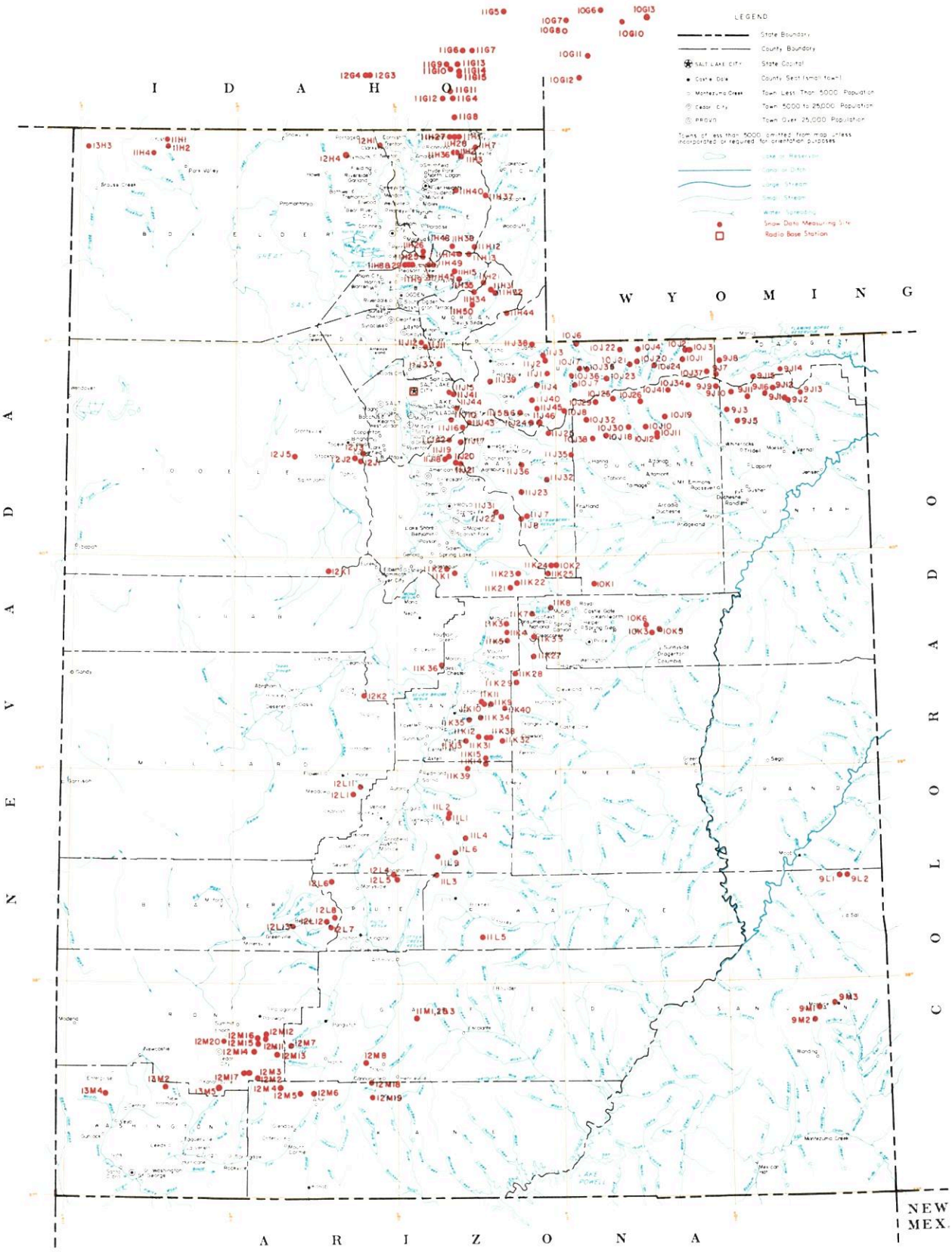
January 1, 1978

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (Inches): Last Year	PAST RECORD: Water Content (Inches): Average +	CURRENT INFORMATION: Date of Reading	CURRENT INFORMATION: Month's Precipitation	CURRENT INFORMATION: Average +	FROM APPROX. OCT 1 TO DATE: This Year	FROM APPROX. OCT 1 TO DATE: Average +	FROM APPROX. OCT 1 TO DATE: Percent of Average
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	12/29	9	2.1	0.0	- -	12/29	- -	- -	3.32	7.43	45
Camp Jackson	12/29	6	1.2	0.0	- -	12/29	- -	- -	3.42	6.68b	51
LaSal Mountain (lower)	12/30	14	3.2	0.0	- -						
LaSal Mountain (upper)	12/30	22	4.8	0.0	- -	12/29	- -	- -	6.12	5.45	112
Monticello City Park	12/29	0	0.0	- -	- -						
ESCALANTE RIVER											
Widtsoe-Escalante Summit	12/27	7	1.1	0.0	3.1						
Widtsoe-Escalante #2	12/27	6	1.0	0.2	4.1						
Widtsoe-Escalante #3	12/27	10	1.6	0.6	5.1b	12/27	1.14	- -	3.39	6.56	52
VIRGIN RIVER											
Kolob-Crystal	1/3	18	3.9	1.4	- -						
Long Valley Junction	1/3	9	1.5	0.0	1.6						
Webster Flat	1/3	16	3.6	0.0	6.5	1/3	- -	- -	4.20	8.50	49

a - Partly Estimated
b - Average of all past record - less than 15 years
+ - 1958-72 15 year average period
(A) - Aerial Marker Reading

+ 1958-1972 period.

USDA SCS PORTLAND, OREGON 1976 M7-0-22027Y



SNOW COURSES AND RELATED DATA MEASURING SITES

UTAH

1978

USGS National Atlas 1:1,000,000 Albers Equal-Area projection (1967) used as source for base map and adapted for SCS use.

SCALE 1:7,500,000

ALBERS EQUAL AREA PROJECTION

INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
		UPPER BEAR RIVER (above Harer, Idaho)				
10G11	W	Big Park	7	27N	117W	8,700
10J6P	U	Butts-Miller Ranch	19	3N	10E	7,900
10G7	W	CCC Camp x	9	29N	118W	7,500
10J36p	U	Gold Hill	11	1N	9E	10,000
10J7PST	U	Hayden Fork	25	1N	9E	9,400
10G12	W	Kelly Ranger Station	13	26N	118W	8,200
10G17S	W	LaBarge Guard Station x	7	30N	116W	9,000
10J35p	U	Lily Lake	34	2N	10E	9,300
11H12PST	U	Monte Cristo R.S.	4	8N	4E	8,960
10G10	W	Piney LaBarge x	19	29N	114W	8,820
10G6	W	Poison Meadows x	29	30N	116W	8,500
10G8P	W	Salt River Summit x	32	29N	118W	7,900
10G13MP	W	Snyder Basin x	15	29N	115W	8,400
10J17P	U	Stillwater Camp	32	2N	10E	8,550
		LOWER BEAR RIVER (below Harer, Idaho)				
11H37pST	U	Bug Lake	18	11N	5E	7,950
11H36p	U	Bunchgrass	5	13N	3E	8,400
11G11	I	Christensen Ranch	27	13S	41E	5,600
11H38p	U	Cinnamon Creek	5	8N	3E	7,300
12H1p	U	Clarkston Mountain	29	14N	2W	6,300
11G12	I	Cub River Ranger Station	5	15S	41E	5,400
11G14a	I	Dry Basin	30	13S	42E	7,900
12G4	I	Dry Creek Flat	31	13S	37E	6,350
11G6	I	Emigrant Summit	21	12S	42E	7,350
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6,500
11G8MPST	I	Franklin Basin	1	16S	41E	8,000
11H7MP	U	Garden City Summit	34 & 35	14N	4E	7,600
13H4PST	U	George Peak	4	13N	4W	9,000
11H40p	U	Herd Hollow	4	11N	3E	7,000
11G15a	I	Horseshoe Basin	31	13S	42E	8,000
11H1MP	U	Klondike Narrows	10	14N	3E	7,400
11G13	I	Liberty Springs	7	13S	42E	8,240
11H26	U	Little Bear (lower)	15	8N	1E	6,000
11H25PST	U	Little Bear (upper)	22	8N	1E	6,550
12G3	I	Oxford Mountain	32	13S	37E	6,800
11G5	I	Slug Creek Divide	15	10S	44E	7,225
11H27	U	Steep Hollow #1	7	14N	3E	8,500
11H28	U	Steep Hollow #2	9	14N	3E	7,700
11G9	I	Strawberry Creek	9	13S	41E	5,800
11G10	I	Strawberry Mink Divide	14	13S	41E	6,800
11H2PST	U	Tony Grove Lake	5	13N	3E	7,400
11H3MP	U	Tony Grove Ranger Station	11	13N	3E	6,250
11G4P	I	Willow Flat	2	15S	41E	6,100
		OGDEN RIVER				
11H14M	U	Beaver Creek-Skunk Creek	22	8N	3E	7,150
11H8PST	U	Ben Lomond Peak	3	7N	1W	8,000
11H9PST	U	Ben Lomond (lower)	1	7N	1W	6,000
11H35p	U	Causey Dam	34	7N	3E	5,500
11H29	U	Cutler Creek	3	7N	1W	6,780
11H13MPST	U	Dry Bread Pond	19	8N	4E	8,230
11H34p	U	Guilder's Peak	21	6N	4E	8,050
11H45p	U	Middle Fork Ogden	16	7N	2E	8,420
11H4Y	U	Powder Mountain Hideaway	6	7N	2E	8,250
11H48	U	Powder Mountain Sundown	1	7N	1E	8,400
11H15P	U	Sagebrush Flat	21	7N	3E	6,300
		WEBER RIVER				
11J24	U	Beaver Creek R.S.	28	2S	7E	7,500
11J1PST	U	Chalk Creek #1	4	1N	8E	9,100
11J2MPST	U	Chalk Creek #2	29	2N	8E	8,200
11J3MP	U	Chalk Creek #3	7	2N	8E	7,500
11J12P	U	Farmington Canyon (lower)	14	3N	1E	6,950
11J11PST	U	Farmington Canyon (upper)	26	3N	1E	8,000
11H44p	U	Francis Canyon	29	5N	6E	7,400
11J45a	U	East Shingle Lake	6	3N	10W	9,800
11J37p	U	Hardscrabble	16	2N	2E	6,500
11H21PST	U	Horse Ridge	1	6N	4E	8,260
11H31P	U	Kilfoil Creek	20	6N	5E	7,300
11H32P	U	Lost Creek	27	6N	5E	6,125
11J43	U	Park City Summit	20	2S	4E	9,300
11J15PST	U	Parley's Canyon Summit	5	1S	3E	7,500
11H50	U	Pine Canyon	6	5N	4E	8,000
11J38p	U	Porcupine	22	3N	7E	8,100
11J6	U	Redden Mine (lower)	1	2S	6E	8,500
11J5P	U	Redden Mine (upper)	1	2S	6E	9,000
11J39p	U	Sergeant Lakes	17	1N	5E	8,400
11J40p	U	Shingle Mill Flat	15	1S	7E	9,900
11J4PST	U	Smith & Morehouse	25	1N	7E	7,600
		PROVO RIVER & UTAH LAKE				
11J46PST	U	Beaver Creek Divide	25	2S	7E	8,000
11J20	U	Camp Altamont	29	4S	3E	7,300
11K21PST	U	Clear Creek Ridge #1	18	11S	6E	9,200
11K22PST	U	Clear Creek Ridge #2	9	11S	6E	8,000
11K23	U	Clear Creek Ridge #3	27	10S	6E	6,600
11J17P	U	Dutchman R.S.	27	3S	3E	7,560
11J22P	U	Hobble Creek Summit	27	7S	5E	7,420
11J36P	U	Lake Creek	36	4S	6E	9,100
11J31	U	Packard Canyon	21	7S	5E	6,400
11K1P	U	Payson R.S.	30	10S	3E	8,050
11K2	U	Rock Bridge	14	10S	2E	6,750
11J25P	U	Soapstone R.S.	9	3S	8E	7,800
11J19	U	South Fork R.S.	24	4S	2E	6,100
11J18P	U	Timpanogos Cave Camp	27	4S	2E	5,500
11J21PST	U	Timpanogos Divide	33	4S	3E	8,140
10J8PST	U	Trial Lake	5	2S	9E	9,800
		JORDAN RIVER & GREAT SALT LAKE				
1[illegible]	J	Bevan's Cabin	24	4S	4W	6,450
12[illegible]	U	Deseret Peak	15	4S	7W	9,250
11J41P	U	Lamb's Canyon #2	21	1S	3E	7,400
12J3P	U	Middle Canyon	8	4S	3W	7,000
11J44	U	Mill Creek	32	1S	3E	7,500
11J10	U	Mill D South Fork	18	2S	3E	7,400
12J1P	U	Rocky Basin-Settlement Canyon	30	4S	3W	8,900
11J16P	U	Silver Lake (Brighton)	35	2S	3E	8,725
11J42	U	Snow Bird (Gad Valley)	18	3S	3E	10,000
12K1PST	U	Vernon Creek	21	10S	5W	7,500
		UPPER SEVIER RIVER (South of Richfield, Utah)				
12L4PST	U	Box Creek	33	26S	2W	9,800
12M8	U	Bryce Canyon	36	36S	4W	8,000
12M13PST	U	Castle Valley	23	36S	8W	9,700
12M4P	U	Duck Creek R.S.	11	38S	8W	8,700
12M18	U	Farview	32	37S	4W	8,200
12M5PST	U	Harris Flat	24	38S	7W	7,700
11L9p	U	High-Top Mountain	36	25S	1E	11,400
12L6P	U	Kimberly Mine	11	27S	5W	9,300
12M2MPST	U	Midway Valley	26	37S	9W	9,800
12M7P	U	Panguitch Lake	4 & 5	36S	7W	8,200
12M19	U	Rainbow Point	29	38S	4W	9,100
12L5	U	Squaw Springs	3	27S	2W	9,300
11M4p	U	Widtsoe R.S.	22	34S	2W	7,600
		LOWER SEVIER RIVER (Including San Pitch River)				
11K13P	U	Beaver Dam	27	19S	3E	8,000
11L1PST	U	Farnsworth Lake	27 & 33	23S	2E	9,900
11K11P	U	G.B.R.C. Headquarters	21	17S	4E	8,700
11K10P	U	G.B.R.C. Meadows	26 & 27	17S	4E	10,000
11L2PST	U	Gooseberry R.S.	22	23S	2E	8,400
11K3MPST	U	Mammoth R.S.-Cottonwood Creek	13	13S	5E	8,800
11K34	U	Middle Fork	16	18S	4E	9,600
11K12P	U	Mt. Baldy R.S.	19	19S	4E	9,500
12K2P	U	Oak Creek	9	17S	3W	7,760
11K39PST	U	Pickle Keg Springs	4	21S	3E	9,600
12L1PS	U	Pine Creek	24	22S	4W	8,700
11K36	U	Rees's Flat	20	15S	2E	7,300
12L11P	U	Shingle Mill	5	22S	3W	6,200
11K35	U	Thistle Flat	23	18S	3E	8,500
		BEAVER RIVER				
12L13	U	Beaver Race Track	23	29S	7W	6,020
12L7PST	U	Big Flat	18	29S	4W	10,290
12L9PST	U	Merchant's Valley (upper)	8 & 9	29S	5W	8,200
12L8	U	Otter Lake	1	29S	5W	9,300
		PAROWAN CREEK				
12M16	U	Birch Crossing	23	35S	9W	8,100
12M14	U	Brian Head	10	36S	9W	10,000
12M12	U	Ed Ward Flat	17	35S	9W	8,300
12M15P	U	Tall Poles	26 & 35	35S	9W	8,800
12M11P	U	Yankee Reservoir	20	35S	8W	8,700
		ENTERPRISE TO NEW HARMONY DRAINAGES				
13M4MP	U	Little Grassy Creek	15	38S	17W	6,100
13M2MPST	U	Long Flat	2	38S	14W	8,000
		COAL CREEK				
12M20	U	Cedar City Golf Course	11	36S	11W	5,800
12M17	U	SUSC Ranch	18	37S	9W	8,200

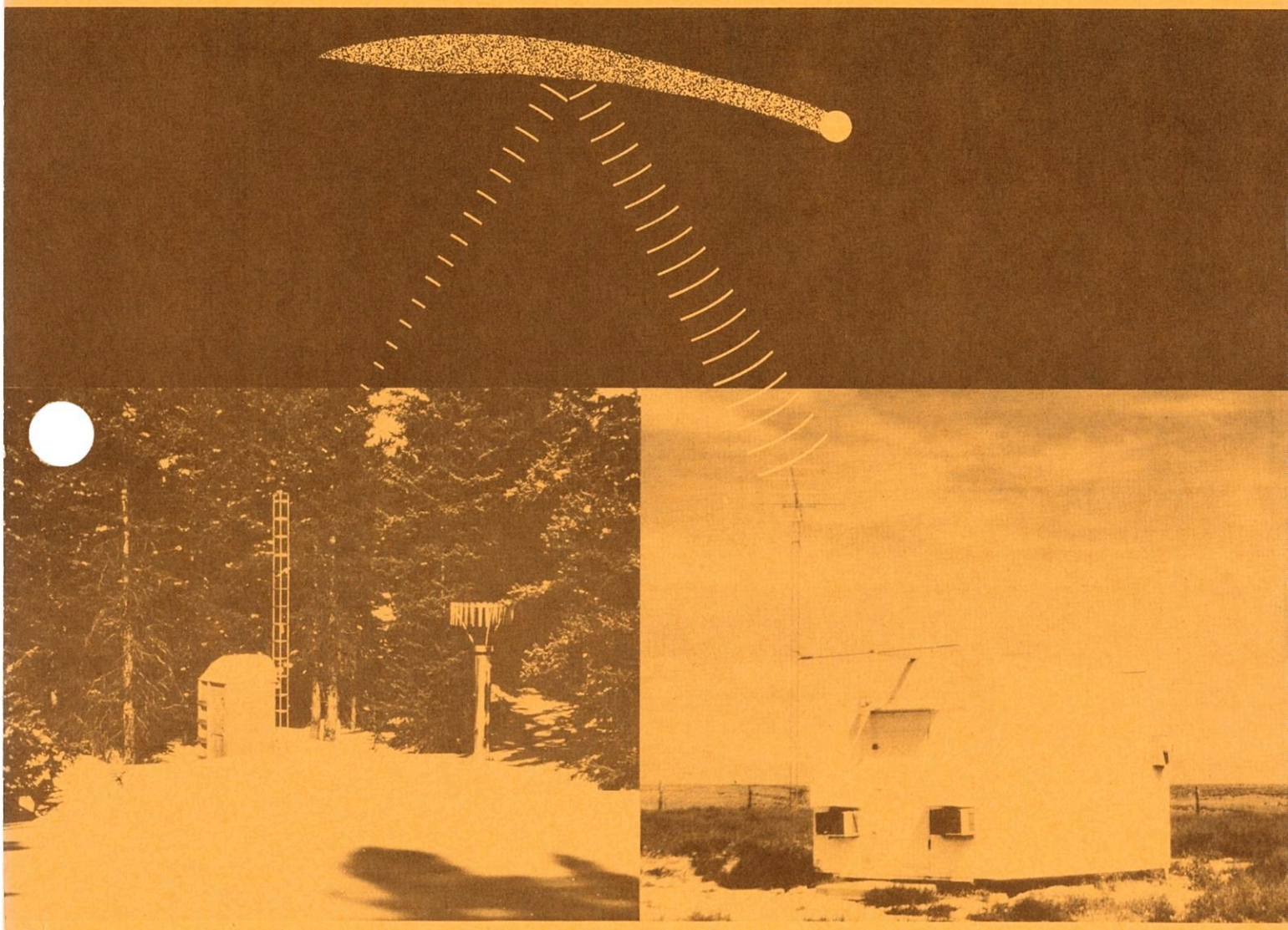
COLORADO RIVER DRAINAGE

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
		UPPER GREEN RIVER IN UTAH (above Duchesne River)				
9J11aP	U	Ashley Twin Lakes	20	1S	19E	10,500
10J21P	U	Black's Fork G.S.-East Fork	25	2N	12E	9,300
10J22P	U	Black's Fork Junction	33	3N	12E	8,925
10J23a	U	Buck Pasture	14	1N	11E	9,700
9J14P	U	Burnt Creek	4	1N	20E	7,900
9J13P	U	Grizzly Ridge	8	1S	22E	8,500
10J24ap	U	Henry's Fork	29	2N	14E	10,000
10J4P	U	Hewinta G.S.	33	3N	13E	9,500
9J8P	U	Hickerson Park	24	2N	17E	9,100
9J15p	U	Highline Trail	23	1N	19E	10,250
10J1	U	Hole-in-the-Rock	13	2N	15E	9,150
10J3	U	Hole-in-the-Rock G.S.	32	3N	16E	8,300
9J2	U	King's Cabin (lower)	23 & 26	1S	21E	8,600
9J1PST	U	King's Cabin (upper)	22	1S	21E	8,730
10J37p	U	McCoy Park	6	1N	17E	10,680
10J2	U	Middle Beaver Creek	31	3N	16E	8,550
9J10aP	U	Reynolds Park	9	1S	18E	10,400
9J7P	U	Spirit Lake	10	1N	17E	10,300
10J20PST	U	Steel Creek Park	17	2N	13E	9,900
9J16PST	U	Trout Creek	9	1S	20E	9,200
9J12ap	U	Windy Park	1	1S	20E	9,400
		DUCHESNE RIVER				
10J41ap	U	Atwood Lake	13	4N	4W	10,500
10J30PST	U	Brown Duck Ridge	8	2N	6W	10,800
9J9ap	U	Chepeta-Whiterocks Lakes	3	1S	17E	10,300
11J32MPST	U	Currant Creek	31	1S	10W	7,800
11J23MPST	U	Daniels-Strawberry Summit	20	2S	12W	8,000
11J7P	U	East Portal	36	7S	6E	7,560
10J26ap	U	Five Point Lake	28	4N	5W	11,000
10K1PST	U	Indian Canyon	7	11S	10E	9,100
10J19P	U	Jackson Park	23	3N	4W	11,300
10J34p	U	Kidney Lake	28	5N	3W	11,000
10J39P	U	Lake Basin	23	3S	8W	10,800
10J25ap	U	Lakefork Basin	13	4N	7W	11,100
10J10PST	U	Lakefork Mountain	2 & 3	2N	5W	10,200
10J11	U	Lakefork Mountain #2	17	2N	4W	8,900
10J12	U	Lakefork Mountain #3	29	2N	4W	8,100
10J29ap	U	Lightning Lake	24	4N	8W	10,950
9J5PST	U	Mosby Mountain	27	2S	18E	9,500
9J3P	U	Paradise Park	7	3N	1E	10,100
10J18P	U	Rock Creek	21	2N	7W	7,900
10J32p	U	Shadow Lake	28	3N	8W	10,150
11J8PST	U	Strawberry Divide	34 & 35	7S	6E	8,000
11J35P	U	West Fork of the Duchesne	22	1N	19E	10,250
		PRICE RIVER				
10K5M	U	Corral	32	13S	14E	8,200
11K8	U	Dry Valley Divide	20	12S	8E	7,800
10K3M	U	Grassy Trail Creek-Left Fork	2	14S	13E	7,970
11K7	U	Jones Ranch	32	12S	7E	7,600
11K33MP	U	Mud Creek	4	14S	7E	8,300
10K6	U	Timberline	28	13S	13E	9,100
10K2MPST	U	White River #1	11	10S	8E	8,550
11K24	U	White River #2	9	10S	8E	7,600
11K25	U	White River #3	30	10S	8E	7,400
		SAN RAFAEL RIVER				
11K31PST	U	Buck Flat	23	19S	4E	9,400
11K4P	U	Gooseberry Reservoir	25	13S	5E	8,700
11K5	U	Huntington-Horseshoe	12	14S	5E	9,800
11K40P	U	Orange Olsen	31	17S	6E	7,300
11K28PST	U	Red Pine Ridge	5	16S	6E	9,400
11K38	U	Rush Pond	24	19S	4E	9,800
11K9PST	U	Seeley Creek	25	17S	4E	10,000
11K27P	U	Stuart R.S.	8 & 9	15S	7E	7,950
11K29	U	Upper Joe's Valley	21	16S	6E	8,900
11K32	U	Wrigley Creek	27	19S	5E	9,000
		MUDDY RIVER				
11K14	U	Black's Fork	34	20S	4E	9,200
11K15PST	U	Dill's Camp	27	20S	4E	9,200
		FREMONT RIVER				
11L4P	U	Black's Flat-U.M. Creek	33	24S	3E	9,250
11L5	U	Donkey Reservoir	9	30S	4E	9,800
11L3P	U	Fish Lake	35	26S	1E	8,700
11L6	U	Johnson Valley	24	25S	2E	8,850
		SOUTHEASTERN UTAH DRAINAGES				
9M1P	U	Buckboard Flat	36	33S	22E	9,000
9M2P	U	Camp Jackson	22	34S	22E	8,600
9L1	U	LaSal Mountain	5	27S	24E	8,800
9L2P	U	LaSal Mountain (upper)	3	27S	24E	9,400
9M3	U	Monticello Park	25	33S	23E	7,050
		ESCALANTE RIVER				
11M1	U	Widtsoe-Escalante Summit	22	34S	1W	9,500
11M2PST	U	Widtsoe-Escalante #2	22	34S	1W	9,500
11M3PST	U	Widtsoe-Escalante #3	22	34S	1W	9,500
		VIRGIN RIVER				
13M5PST	U	Kolob-Crystal	2	38S	11W	9,250
12M6	U	Long Valley Junction	22	38S	6W	7,500
12M3MPST	U	Webster Flat	20	37S	9W	9,200
		RAFT RIVER				
13H2a	U	Clear Creek Meadows	26	14N	14W	9,050
13H4P	U	George Peak	4	13N	4W	9,000
13H1	U	One Mile Summit	19	14N	14W	7,330
13H3a	U	VIPont	17	14N	17W	7,670

LEGEND
Numbering System (example)

10J7	Snow Course Only
10J7P	Snow Course and Precipitation Gage
10J7M	Snow Course and Soil Moisture Station
10J7A	Snow Course and Aerial Marker
10J7MA	Snow Course, Soil Moisture Station and Aerial Marker
10J7MP	Snow Course, Soil Moisture Station and Precipitation Gage
10J7a	Aerial Marker Only
10J7p	[illegible]erage Precipitation Gage Only
10J7PS	[illegible]ow Course, Precipitation Gage, Snow Pillow and Temperatu[illegible]
10J7PST	Snotel Data Site

WATER SUPPLY OUTLOOK FOR UTAH



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

UTAH STATE DEPARTMENT OF NATURAL RESOURCES
-- DIVISION OF WATER RIGHTS

AS OF
FEB. 1, 1978

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

WATER SUPPLY OUTLOOK FOR UTAH

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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4012 FEDERAL BUILDING
SALT LAKE CITY, UTAH 84138

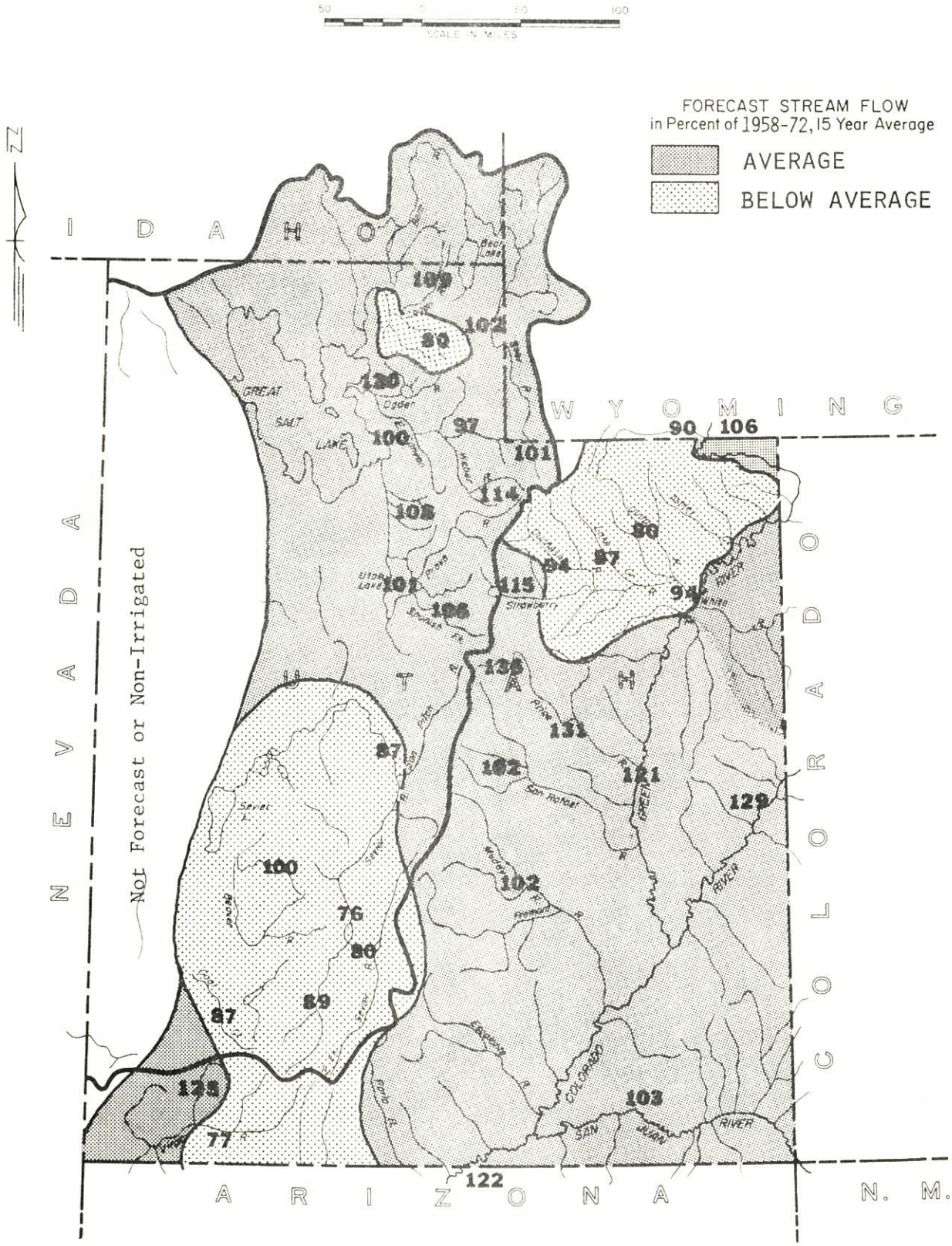
USDA-SCS-PORTLAND, OR. 1977, M7-L-22027B

PROSPECTIVE WATER SUPPLIES

Based on Snow Surveys Made on UTAH and BEAR RIVER WATERSHEDS

FEBRUARY 1, 1978

Approximate Date



U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

7-0-16150-L

USDA SCS PORTLAND, OREG 1970 M-2853

SNOW COVER

Based on Snow Surveys Made on
UTAH and BEAR RIVER WATERSHEDS

FEBRUARY 1, 1978
Approximate Date

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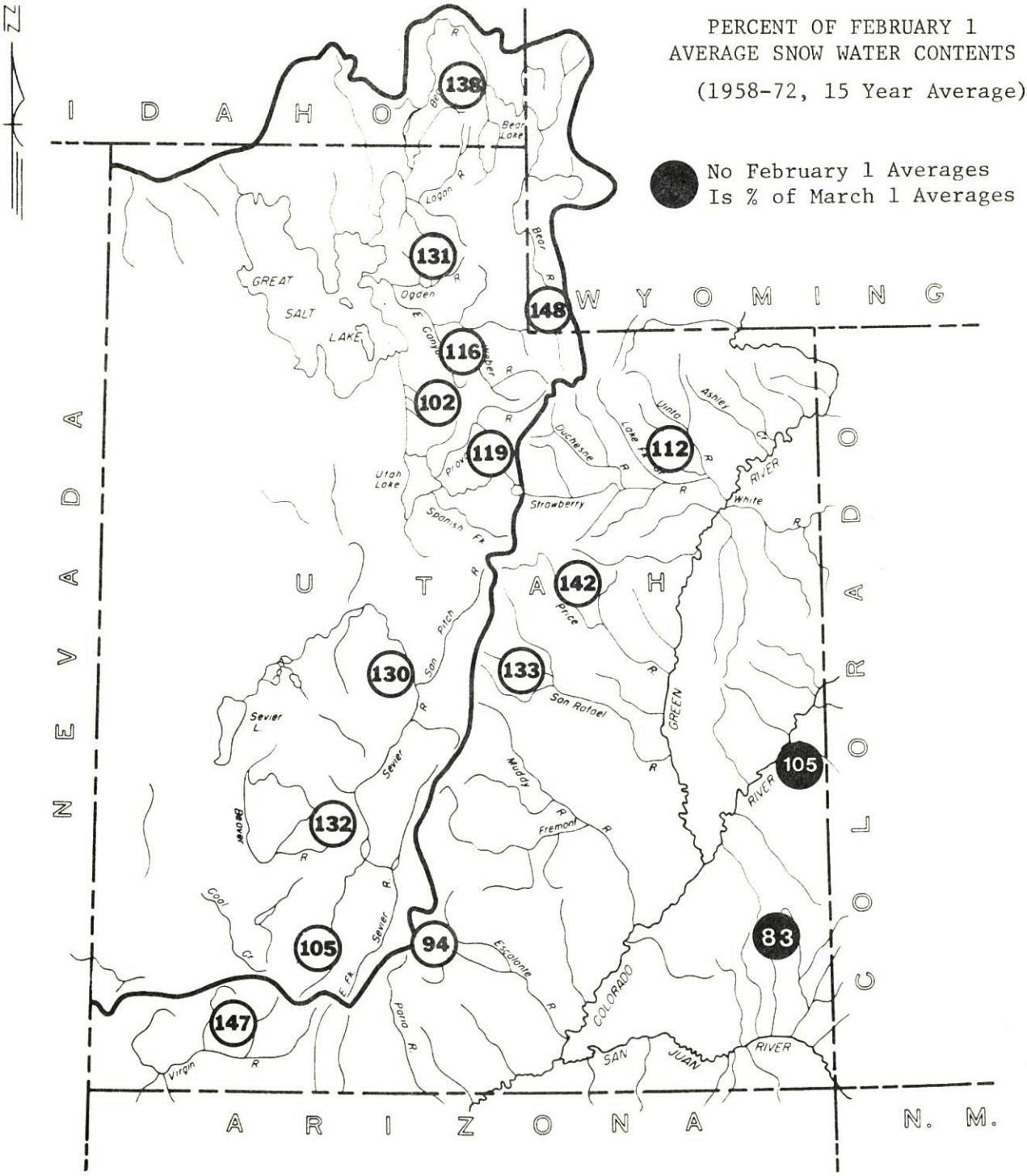
SCALE IN MILES



WATER SUPPLY OUTLOOK

as of
FEBRUARY 1, 1978

* *
* Utah's 1978 water supply outlook ranges from below average in *
* the southern and eastern part of the state, to near average *
* for central and northern Utah. Snow cover ranges from 94% of *
* average on the Escalante Drainage to 148% on the Upper Bear *
* River. Reservoir storage is 90% of average and 22% less than *
* a year ago and watershed soil moisture is below average. *
* *

SNOW COVER

Snow cover improved at a faster than normal rate in southern Utah bringing those basins up to near average or a little above average for February 1. The Upper Sevier is now 105% of average, Beaver River 132%, Virgin River is 147%, although weighted heavily by one low elevation measurement at Long Valley Junction, which should melt prior to April 1. The Lower Sevier is 130%, San Rafael 133%, Price River 142%, and Duchesne River 112% of average. Provo River snow cover is now 119% of average. Watersheds above Salt Lake are now 112%, Weber River 116%, Ogden 131%, and the Lower Bear River 138% of the February 1 average. The LaSal and Blue Mountains have no February 1 average, but their snow cover is near a March 1 average as of this time.

PRECIPITATION

Precipitation at mountain stations ranged from about two-thirds average to 130% of average in northern Utah, to as much as three times average at some locations in southern Utah during January.

SOIL MOISTURE

Soil moisture is generally below average statewide. Fall rains recharged the top 12-24 inches in some locations, but the remainder of the profile is reported as very dry. These dry soils are expected to reduce spring snow-melt runoff.

RESERVOIR STORAGE

Reservoir storage is generally below average. Storage in 24 of Utah's irrigation reservoirs is now 90% of the February 1 average, 22% less than a year ago, and only 53% of useable capacity. Many reservoirs in southern and eastern Utah are not expected to fill this year.

Sevier River reservoirs are only 69% of average and 68% of last year. Uintah Basin reservoirs (Moon Lake and Steinaker) are only 42% of average and 36% less than last year at this time. High lakes in the Uintahs look lower than any time in the last ten years. The Great Salt Lake was 4199.10 feet above mean sea level, 1.40 feet lower than a year ago and 7.75 feet above the all-time low of October 1963, according to U.S. Geological Survey.

USDA-SCS-PORTLAND, OR 1977 M7-L-22027E

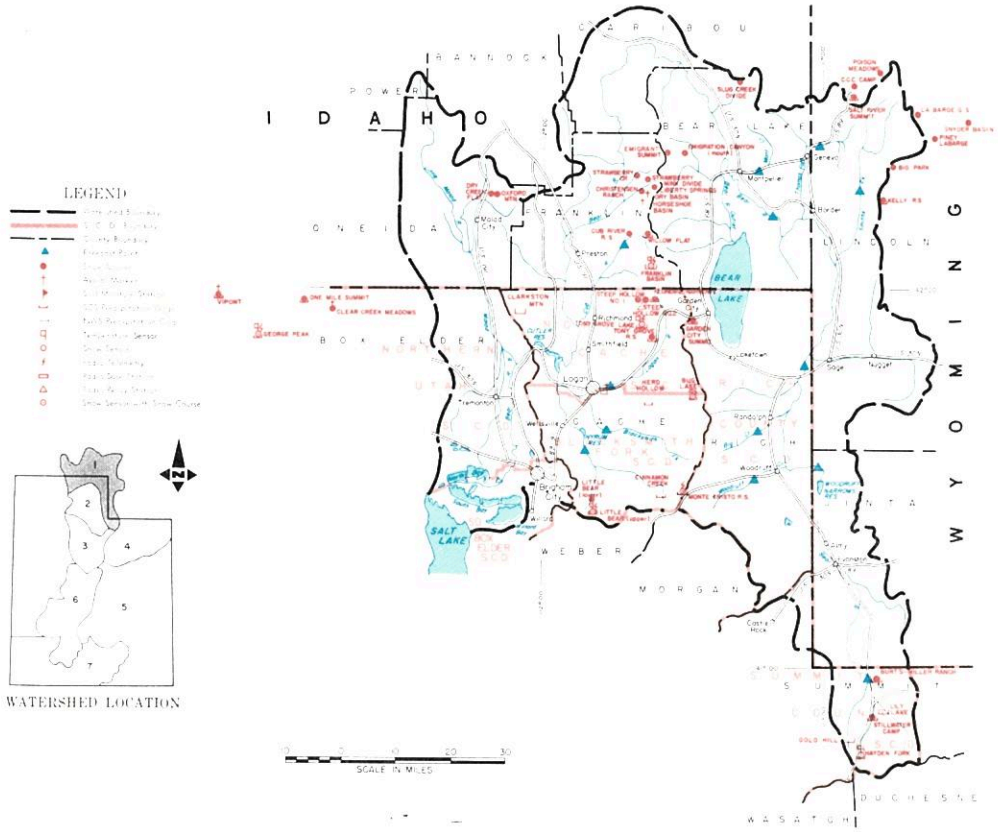
WATER SUPPLY OUTLOOK (continued)

STREAMFLOW FORECASTS

Streamflow forecasts range from 76% of average for the Sevier below Piute to 138% for the Inflow to Scofield Reservoir. Forecasts range from 10 to 20% below average on Sevier and Uintah Basin streams to generally average to 15 to 20% above average on all other streams. Bear River is forecast 101% of the April-July average at the Utah-Wyoming State Line and 105% at Harer, Idaho. Logan River is forecast 109% of average, the Inflow to Pineview Reservoir 120%, Weber near Oakley 114% and Weber near Coalville 110%. Provo River is forecast 104% at Hailstone and 102% below Deer Creek Dam. Strawberry Inflow is forecast 115% of average and Utah Lake Inflow 101% of the April-July average. Ashley Creek is forecast 81%, Lakefork Creek 87%, Rock Creek 94%, and Duchesne at Tabiona 94%. Huntington Creek, Cottonwood Creek, and Muddy Creek are forecast 102% of average and Ferron Creek 105%. San Juan near Bluff 103% and Mill Creek above Moab 112% of average.

WATER SUPPLY OUTLOOK
BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



FEBRUARY 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 138% of the February 1 average on the Lower Bear to 148% on the Upper Bear. Logan River watershed is 134% of average. This year's snow water is about six to seven times last year at this time.

PRECIPITATION at mountain stations ranged from 67% of the January average at Tony Grove Ranger Station to 130% at Salt River Summit.

SOIL MOISTURE is below average. Good fall moisture is reported to have penetrated only the top 18 to 24 inches of the soil profile.

RESERVOIR STORAGE is below average in Bear Lake and Woodruff Narrows and near average in Hyrum and Porcupine Reservoirs.

STREAMFLOW FORECASTS range from 80% of the April-July average on Blacksmith Fork to 131% on Big Creek. The Bear near Utah-Wyoming State Line is forecast 101% of average and at Harer, Idaho, 105% of average. Logan River is forecast 109% of the April-July average. Some runoff will be used to replenish soil moisture and ground water after last year's short year.

M7-OL-22027-1

BEAR RIVER BASIN in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD Thousand Acre Feet Last Year 2	PAST RECORD Thousand Acre Feet Average +
BEAR RIVER					
Bear nr Ut-Wyo. State Line	113	101	Apr-July	41	112
Bear nr Woodruff	136	103	Apr-July	28	131
Woodruff Crk nr Woodruff, UT	17.4	113	Apr-July	2.7	15.4
Big Creek nr Randolph, Utah	5.5	131	Apr-July	--	4.2b
Bear nr Randolph	104	102	Apr-July	3.4	102
Thomas Fork nr Ut-Wy State Ln	48	130	Apr-Sept	3.8	32
Smith's Fork nr Border, Wyo.	150	130	Apr-Sept	26.8	116
Bear at Harer, Idaho 1	3.3	105	Apr-Sept	34.6	297
Logan nr Logan 1	123	109	Apr-July	34	113
Blacksmith Fork nr Hyrum	38	80	Apr-July	16.7	48
Little Bear nr Paradise	28	82	Apr-June	6.3	34
Cub River nr Preston, ID	57	114	Apr-Sept	--	50

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction
b - Average of all past record - less than 15 years

SUMMARY of SNOW MEASUREMENTS

HUC BASIN	Number of Sites Reporting	THIS YEAR AS A PERCENT OF Date	Average
BEAR RIVER	25	624	140
UPPER BEAR RIVER	5	671	148
LOWER BEAR RIVER	20	613	138
LOGAN RIVER	3	721	134

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average†
BEAR RIVER	Bear Lake	1421.0	1774.8	1030.6	944.9
	Woodruff Narrows	26.5	4.2	1.5	20.5b
	Woodruff Creek	--	1.1	--	-
LITTLE BEAR	Hyrum	15.3	10.1	10.8	9.9
	Porcupine	11.3	2.8	3.4	2.9b

+ - 1958-72 15 Year Average Period
e - estimated

PEAK FLOWS

FORECAST POINT	PEAK FLOW (CFS) Forecast Range	PEAK FLOW (CFS) Average †
To begin March 1, 1978		

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WATER SUPPLY OUTLOOK

WEBER-OGDEN WATERSHEDS in UTAH

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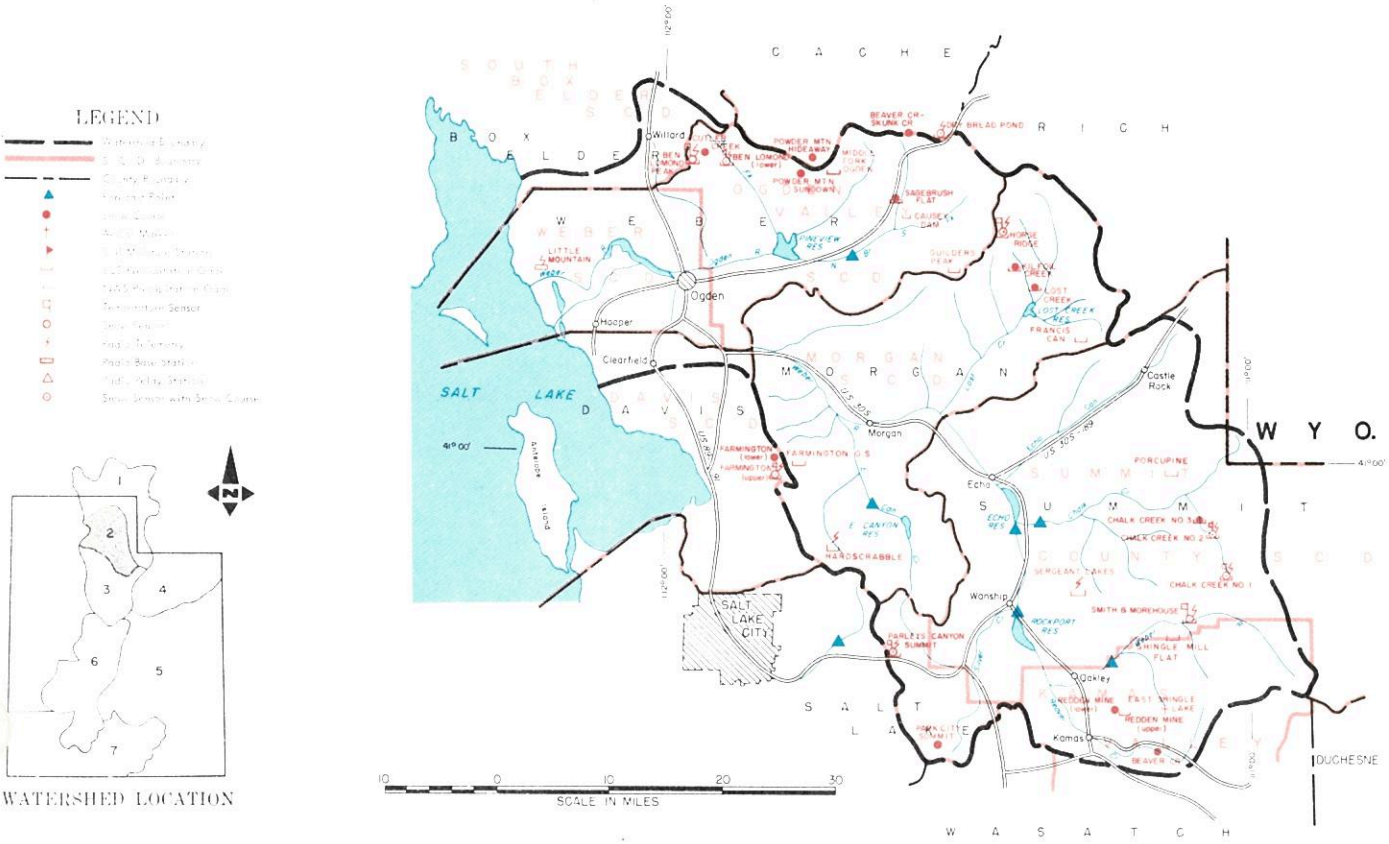
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



FEBRUARY 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER is 116% of the February 1 average on the Weber River and 131% on the Ogden River.

PRECIPITATION at mountain stations during January ranged from 48% of average at Sagebrush Flat to 138% at Parleys Canyon Summit. The October-January period ranged from 97% at Ben Lomond Lower to 118% at Parleys Summit.

SOIL MOISTURE is below average except in the top few inches of the profile.

RESERVOIR STORAGE is now 92% of average on the Ogden River and 100% on the Weber. Lost Creek and Rockport Reservoirs are the shortest with 77% and 79% of the February 1 average respectively.

STREAMFLOW FORECASTS for the April-June period now range from 97% on Chalk Creek to 120% of average for Pineview Reservoir Inflow. South Fork Ogden is forecast 118%, Lost Creek 116%, Hardscrabble 114%, East Canyon 105%, Weber at Oakley 114%, Rockport Inflow 107%, and 110% at Coalville. These flows are expected to fill most reservoirs with the possible exception of East Canyon and Lost Creek.

M7-OL-22027-2

WEBER-OGDEN WATERSHEDS in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
WEBER-OGDEN RIVERS					
Weber nr Oakley	114	114	Apr-June	31.6	100
Rockport Reservoir Inflow[1]	122	107	Apr-June	- -	114
Chalk Creek at Coalville	31	97	Apr-June	4.2	32
Weber nr Coalville	124	110	Apr-June	14.3	113
Lost Creek nr Croyden, Utah	15.9	116	Apr-June	2.5	13.7
East Canyon Creek nr Morgan[1]	23	105	Apr-June	11.4	22
Hardscrabble Crk nr Portervlle	16.6	114	Apr-June	- -	14.4b
South Fork Ogden nr Huntsvlle	59	118	Apr-June	8.5	50
Pineview Reservoir Inflow [2]	132	120	Apr-June	13.5	110
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	7.8	100	Apr-July	- -	7.8

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U.S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
b - Average of all past record - less than 15 years

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN, NO. OF SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
OGDEN RIVER	6	659	131
WEBER RIVER	7	480	116

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average +
OGDEN	Causey	6.9	2.6	1.4	2.2b
	Pineview	110.1	36.4	53.6	40.1
WEBER	East Canyon	48.1	19.9	30.4	18.5
	Echo	73.9	41.6	41.5	39.1
	Lost Creek	20.0	9.6	12.7	12.4b
	Rockport	60.9	22.7	26.8	28.6
	Willard Bay	193.3	114.5	139.7	110.3b

+ - 1958-72 15 Year Average Period

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average +
To begin March 1, 1978		

+ - 1958-1972 period

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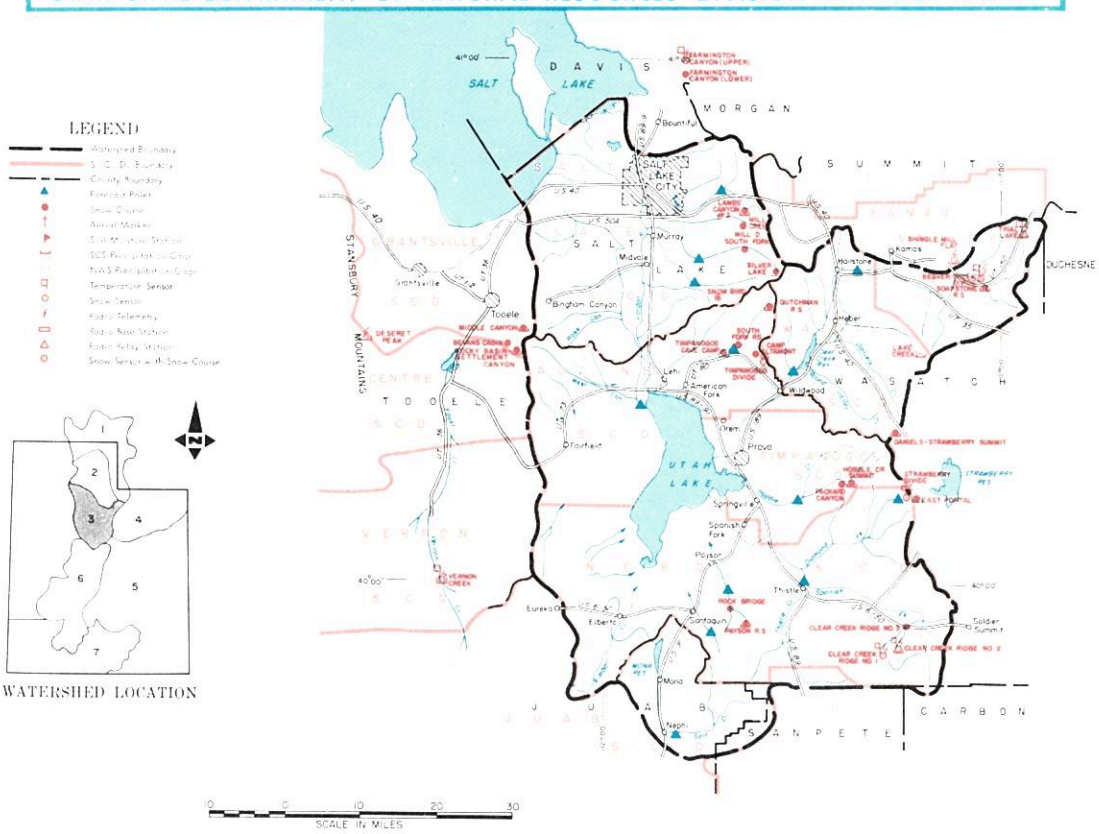
WATER SUPPLY OUTLOOK

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



FEBRUARY 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER is 119% of average on the Utah Lake drainages, and 112% along the front above Salt Lake City. Middle Canyon above Tooele is 81% of the February 1 average.

PRECIPITATION at mountain stations ranged from 64% of the January average at Soapstone to 198% at Payson Ranger Station.

SOIL MOISTURE is below average except in the top few inches which is near average.

RESERVOIR STORAGE is a little above average in Utah Lake and Strawberry, but only 75% of average in Deer Creek. Storage in all three reservoirs is about 20% less than last year at this time. Utah Lake is not expected to reach compromise this season and Deer Creek and Strawberry are not expected to fill unless above average runoff begins early in the season.

STREAMFLOW FORECASTS range from 91% of the April-July average on American Fork to 143% on Vernon Creek. The Provo at Hailstone is forecast 104%, at Deer Creek Dam 102%, Spanish Fork 106%, Payson Creek 111%, Hobble Creek 94%, and Utah Lake Inflow 101%. Strawberry Reservoir Inflow is forecast 115% of the April-July average or almost ten times last year's inflow. Big Cottonwood is forecast 108%, Little Cottonwood 111%, and Parleys Creek 114% of their April-July averages.

M7-OL-22027-3

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average +
PROVO RIVER & UTAH LAKE					
Provo nr Hailstone 1	106	104	Apr-July	31.5	102
Provo below Deer Creek Dam 1	113	102	Apr-July	50.1	111
American Fork nr American Fork	28	97	Apr-July	7.5a	29
Hobble Creek nr Springville 1	15	94	Apr-July	----	16
Strawberry Reservoir Inflow 1	53	115	Apr-July	5.7	45
Spanish Fork at Thistle	34	106	Apr-July	----	32
Payson Creek nr Payson	7.0	111	Apr-July	----	6.3
Utah Lake Inflow	211	101	Apr-July	124.7	208
JORDAN RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	39	111	Apr-July	19.8	35
Big Cottonwood nr SLC	39	108	Apr-July	18.8	36
Parley's Creek nr SLC	13.1	114	Apr-July	3.5	11.5
TOOELE VALLEY					
Vernon Creek nr Vernon	1.0	143	Mar-July	0.6	0.7

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction
a - Partly estimated

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
PROVO RIVER & UTAH LAKE	10	472	119
JORDAN RIVER & SALT LAKE	3	552	112
TOOELE VALLEY	1	191	81

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average +
SPANISH FORK	Strawberry	270.0	141.2	204.9	113.6
UTAH LAKE	Utah Lake	883.9	609.0	731.3	563.0
	Settlement Creek	1.2	0.3	0.5	----
	Vernon Creek	0.6	0.3	0.4	----
PROVO	Deer Creek	149.7	70.7	87.0	94.7

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average +
To begin March 1, 1978		

+ - 1958-1972 15 years average period.
b - Average of all past record - less than 15 years.

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WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

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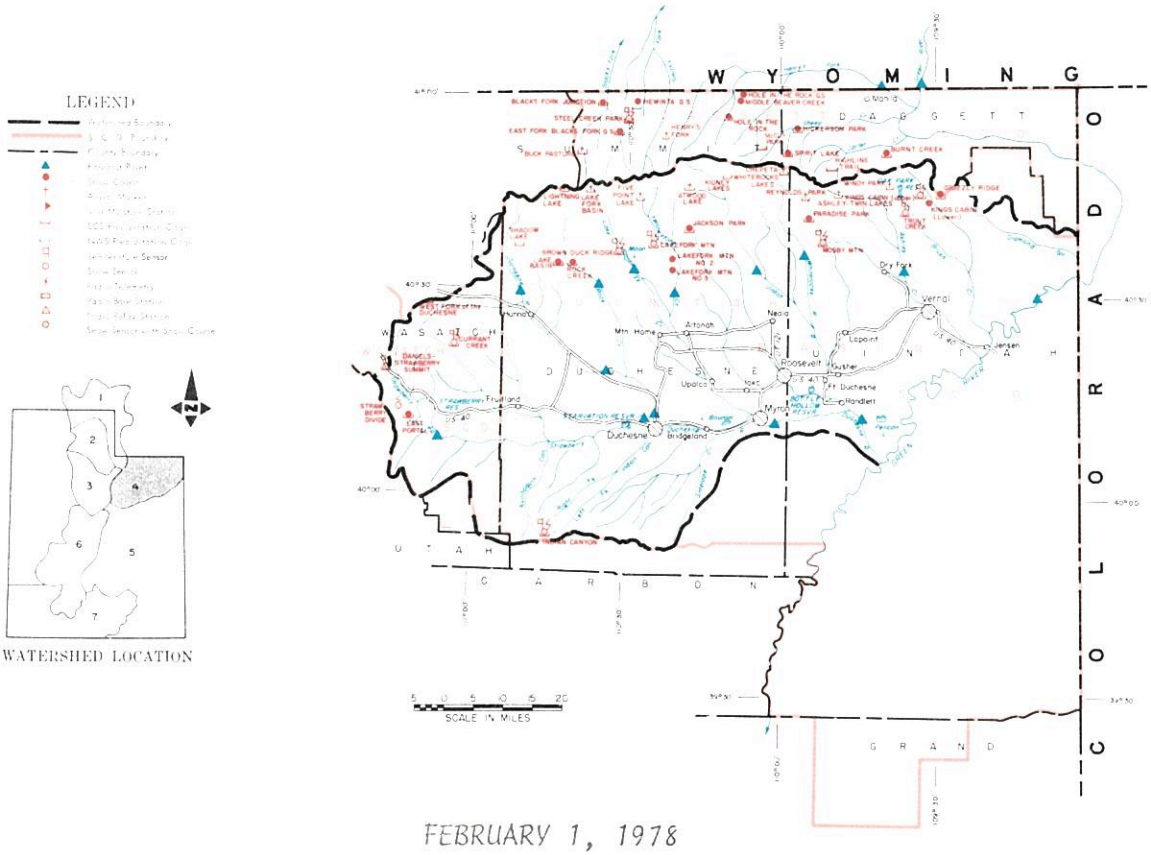
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



FEBRUARY 1, 1978

THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

SNOW COVER ranges from 83% of the February 1 average on the Uintah-Whiterocks drainages to 135% on Strawberry River. Lakefork-Yellowstone drainages are 96% of the February 1 average. Ashley Creek courses do not have an average for February 1, but their snow water content is about three times last year.

PRECIPITATION at mountain stations ranged from 78% of average at Burnt Creek above Manila to 162% at Daniels-Strawberry Summit for the month of January.

SOIL MOISTURE is below average.

RESERVOIR STORAGE is 63% of the February 1, average for Moon Lake and only 27% of average for Steinaker. Moon Lake has 4,000 acre feet more in storage than last year at this time, but Steinaker is 12,000 acre feet less.

STREAMFLOW FORECASTS for the April-July period range from 78% of average on Whiterocks to 106% for Flaming Gorge Inflow. Ashley Creek is expected to be 81% of average, Black's Fork 90%, and Henry's Fork 89%. The Duchesne is forecast 94% of average at Tabiona, 98% at Duchesne, 99% at Myton, and 94% at Randlett. Rock Creek is forecast 94%, Lakefork 87%, Yellowstone 88%, the Uintah 80%, and Strawberry 96% of average.

M7-OL-22027-4

. UINTAH BASIN and DAGGETT SCD's in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average †
DUCHESNE RIVER					
Duchesne nr Tabiona[1]	98	94	Apr-July	19.2	104
Duchesne at Duchesne[1]	173	98	Apr-July	48.4	185
Strawberry at Duchesne	54	96	Apr-July	10.1	56
Rock Creek nr Mtn. Home	88	94	Apr-July	34.5	95
Lakefork below Moon Lake[1]	60	87	Apr-July	30.2	69
Yellowstone nr Altonah	57	88	Apr-July	29.1	65
Duchesne at Myton[1]	215	99	Apr-July	8.3	218
Whiterocks nr Whiterock	45	78	Apr-July	24.2	58
Uintah nr Neola	70	80	Apr-July	70.5	88
Duchesne at Randlett[1]	250	94	Apr-July	13.1	267
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork at Linwood	40	89	Apr-Sept	3.6	45
Black's Fork at Millburne	85	90	Apr-July	43.6	94
Flaming Gorge Inflow[1]	1241	106	Apr-July	233.0	1174
Ashley Creek nr Vernal	40	81	Apr-July	14.2	50

1 - Observed flow corrected for change in storage and diversions.
2 - Provisional flows - Subject to correction

SUMMARY of SNOW MEASUREMENTS

	Number of Snow Courses	THIS YEAR'S MEASUREMENTS	
DUCHESNE RIVER - TOTAL	8	603	112
LAKEFORK--YELLOWSTONE CREEKS	2	892	96
STRAWBERRY RIVER	3	594	135
UINTAH-WHITEROCKS RIVERS	2	554	83
ASHLEY CREEK	2	329	----
BLACK'S FORK	4	394	----

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	USABLE CAPACITY	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average†
ASHLEY CREEK	Steinaker	33.3	6.1	18.3	22.9b
GREEN RIVER	Flaming Gorge	3749.0	1987.5	3017.0	1641.0
LAKE FORK	Moon Lake	35.8	10.2	6.1	16.3
STRAWBERRY	Starvation	165.3	140.2	45.5	----
UINTAH	Bottle Hollow	11.3	10.1	10.6	----

† - 1958-1972 15 year average period

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average †
To Begin March 1, 1978		

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WATER SUPPLY OUTLOOK
CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

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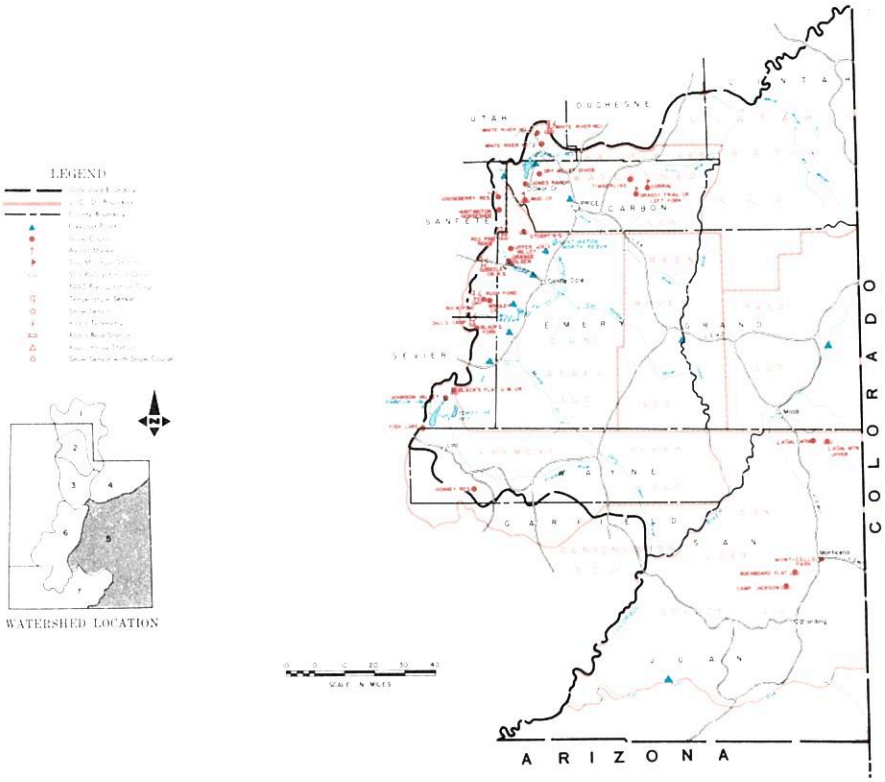
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



FEBRUARY 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER on Price River is 142% of the February 1 average and about nine times last year at this time. The San Rafael is 133% of average and about five times last year on February 1.

PRECIPITATION at mountain stations was almost twice the January average and has ranged from 130 to 158% of average for the October-January period.

SOIL MOISTURE is near average in the top 12 to 24 inches, but below average for the rest of the profile.

RESERVOIR STORAGE is only 60% of average in Scofield, but near average in Joe's Valley and Huntington North reservoirs.

STREAMFLOW FORECASTS for the April-July period range from 97% for the Inflow to Navajo to 138% for the Inflow to Scofield Reservoir. Price River is forecast 131% of average, Huntington Creek 102%, Cottonwood Creek 102%, Ferron Creek 105%, and Muddy Creek 102% of the April-July average. The Colorado is forecast 129% at Cisco, Green River 121%, San Juan near Bluff 103%, and Mill Creek near Moab 112%. All forecasts this year are for four to five times the flow received last year.

M7-OL-22027-5

CARBON, EMERY, WAYNE, GRAND AND SAN JUAN COUNTIES in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and of FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average +
PRICE RIVER					
Gooseberry Creek nr Scofield	13.6	136	Apr-July	2.2	10.0
Scofield Reservoir Inflow	47	138	Apr-July	4.2	34
Price nr Heiner[1]	84	131	Apr-July	----	64b
SAN RAFAEL RIVER					
Huntington Crk nr Huntington	46	102	Apr-July	11.3	45
Cottonwood Crk nr Orangeville	47	102	Apr-July	10.4	46b
Ferron Creek nr Ferron	37	105	Apr-July	15.9	35
MUDDY RIVER					
Muddy Creek nr Emery	18.1	102	Apr-July	3.5	17.0
UPPER COLORADO BASIN					
Colorado nr Cisco, Utah	3660	129	Apr-July	534.6	2835
Green at Green River, Utah	3441	121	Apr-July	882.7	2839
Mill Creek nr Moab	5.5	112	Apr-July	1.4	4.9
Navajo Reservoir Inflow	580	97	Apr-July	----	597
San Juan nr Bluff, Utah	882	103	Apr-July	122.8	853
FREMONT RIVER					
Seven Mile Crk nr Fish Lake	7.0	109	Apr-July	----	6.4b

SUMMARY of SNOW MEASUREMENTS

RIVER BASIN	NO. OF SUBWATERSHED	NUMBER OF DATES AVERAGE	THIS YEAR AS A PERCENTAGE OF Last Year	THIS YEAR AS A PERCENTAGE OF Average
PRICE RIVER	4	900	142	
SAN RAFAEL RIVER	5	504	133	

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	USABLE CAPACITY	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average†
PRICE RIVER	Scofield	65.8	17.3	28.4	28.8
SAN RAFAEL	Huntington North	3.9	2.1	2.4	2.0b
	Joe's Valley	54.6	33.5	30.2	30.8
	Mill Site	16.7	0.3	1.5	----
SAN JUAN	Navajo	1696.0	955.5	1145.3	----

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Peak	PEAK FLOW (SECOND FEET) Average †
To Begin March 1, 1978		

+ - 1958-1972 15-year average period
b - Average of all past record - less than 15 years

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WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

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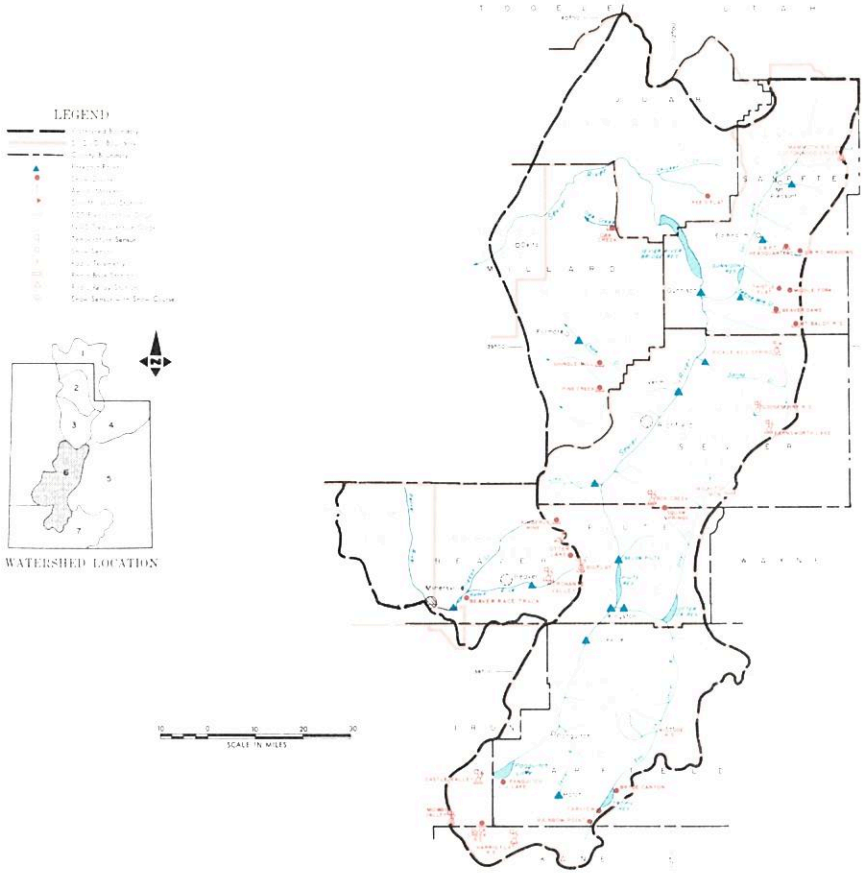
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



FEBRUARY 1, 1978

THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

SNOW COVER ranges from 93% of average on the East Fork to 132% on Beaver River. The South Fork Sevier is now 106% of the February 1 average and the Lower Sevier 130% of average after much heavier than usual January increases.

PRECIPITATION at mountain stations ranged from 128% of the January average at Farnsworth Lake to 389% at Shingle Mill. The October-January totals now range from 95% of average at Duck Creek to 156% at Mammoth-Cottonwood Creek.

SOIL MOISTURE is below average.

RESERVOIR STORAGE is well below average. Otter Creek is 68% of average, Piute is 49% of average, Sevier Bridge 85%, and Gunnison is only 10% of average. These reservoirs are not expected to fill this season.

STREAMFLOW FORECASTS range from 74% of the April-July average for the Sevier near Kingston to 115% for Ephraim and Pleasant Creeks on the San Pitch River. Sevier River is forecast 85% of average at Hatch, 89% at Circleville, 80% on the East Fork near Kingston, 76% below Piute Dam, and 87% at Gunnison. The Inflow to Sevier Bridge Reservoir during the October-March period is expected to be only about 50,000 acre feet, but primary water is expected to be near average or a little above on the upper river and a little below average below Vermillion Dam. Beaver River is forecast 104% near Beaver and about 100% for inflow to Minersville Reservoir. Chalk Creek near Fillmore is forecast about average and Clear Creek 93% of the April-July average.

M7-OL-22027-6

SEVIER RIVER BASIN inculding BEAVER RIVER in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and of FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average *
SEVIER RIVER					
Sevier at Hatch	34	85	Apr-July	10.6	40
Sevier nr Circleville	25	89	Apr-July	----	28
Sevier nr Kingston	15.5	74	Apr-July	1.9	21
Antimony Crk nr Antimony	6.2	85	Apr-July	----	7.3
East Fork Sevier nr Kingston	11.5	80	Apr-July	----	14.4
Sevier below Piute Dam[1]	25	76	Apr-July	----	33
Clear Crk nr Sevier (abv Div)	14.0	93	Apr-July	4.1	15.0
Inflow					
Kingston to Vermillion Dam	36	72	Apr-June	----	50
Vermillion Dam to Gunnison	37	95	Mar-June	----	39
Salina Creek at Salina	7.3	90	Apr-June	0.1	8.1b
Sevier nr Gunnison	34	87	Apr-July	15.4	39
Chalk Creek nr Fillmore	15.5	100	Apr-July	----	15.5b
SAN PITCH RIVER					
Ephraim Creek nr Ephraim	16.0	115	Apr-July	----	13.9b
Pleasant Crk nr Mt. Pleasant	9.0	115	Apr-July	----	7.8
BEAVER RIVER					
Beaver nr Beaver	20.7	104	Apr-July	6.1	20
North Creek (combined)	11.7	100	Apr-July	----	11.7
Minersville Reservoir Inflow	5.8	100	Apr-June	----	5.8

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and of SUBWATERSHED	Number of Sites Average	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
UPPER SEVIER RIVER	5	289	105
East Fork Sevier	4	483	93
South Fork Sevier	4	293	106
LOWER SEVIER	6	338	130
BEAVER RIVER	2	338	132

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average +
SEVIER RIVER	Gunnison	18.2	1.0	1.4	9.8
	Otter Creek	52.5	17.3	27.0e	25.4
	Piute	71.8	18.1	23.5	37.2
	Sevier Bridge	236.0	71.2	106.0	83.2
BEAVER RIVER	Minersville (Rky Fd)	23.3	4.4	7.3	11.3

b - Average of all past record - less than 15 years
+ - 1958-1972 15 year average period
e - Estimated

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average +
To Begin March 1, 1978		

PRIMARY WATER RIGHT FORECASTS (PERCENT OF WATER RIGHT DELIVERED)

RIVER SECTION	Percent Forecast For This Year	Average Percent Delivered During 15 year Period +	Forecast Period
SEVIER RIVER			
Panguitch Valley	95	82	April-Sept
Circle Valley	73	65	April-Sept
Sevier Valley	38	38	April-Sept
Below Vermillion Dam	49	55	April-Sept

Inflow to Sevier Bridge Reservoir for the October-March period is expected to be about 50,000 acre feet.

The flow below Vermillion - Above 360 cfs is expected to be 1500 acre feet.

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second Ft	Forecast Date Since All Records to Low Flow Value	Average Date of Low Flow Value
Clear Creek nr Sevier-above Div.	5	July 22	July 28
Salina Creek at Salina	25	June 6	June 10
Sevier at Circleville	90	June 7	June 24
Sevier at Hatch (upper)	100	June 19	July 10

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WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS

FEBRUARY 1, 1978

THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

SNOW COVER varies from 67% of average on Parowan Creek to 147% on the Virgin River. Coal Creek is 103% of the February 1 average. Virgin River snow cover is based on two snow courses; one is Long Valley Junction, a low elevation course which has more than twice its average February 1 snow water content.

PRECIPITATION at mountain locations ranged from 97% of the January average at Tall Poles to 240% at Webster Flat. The October-January totals now range from 69% at Tall Poles to 102% at Webster Flat.

SOIL MOISTURE is well below average.

RESERVOIR STORAGE is reported below average in most small reservoirs. Lake Powell contains 14,789,000 acre feet or about 3,229,000 less than last year at this time.

STREAMFLOW FORECASTS range from 77% of the April-June average for the Virgin River near Virgin to 125% of average for Santa Clara near Pine Valley. Coal Creek is forecast 87% of the April-July average and Lake Powell Inflow is expected to be 122% of average.

M7-OL-22027-7

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average †
VIRGIN RIVER					
Virgin nr Virgin	37	77	Apr-June	24.7e	48b
Santa Clara nr Pine Valley	4.5	125	Apr-June	0.8	3.6b
COAL CREEK					
Coal Creek nr Cedar City	14.0	87	Apr-July	3.6	16.1
UPPER COLORADO					
Lake Powell Inflow	8362	122	Apr-July	1130	6881

2 - Provisional Flows - Subject to correction
e - Estimated

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
COAL CREEK	2	284	103
VIRGIN RIVER	2	400	147
PAROWAN CREEK	1	246	67

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average†
COLORADO	Lake Powell	25002.0	14789.0	18018.0	8401b
	Blue Mesa	829.5	279.3	416.1	---

b - Average of all past record - less than 15 years
† - 1958-1972 15 year average period

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average †
To begin March 1, 1978		

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SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
DRAINAGE BASIN and/or SNOW COURSE				Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
GREAT BASIN											
UPPER BEAR RIVER (Above Harer, Idaho)											
Big Park	1/30	63	20.4	3.8	13.3						
Burts-Miller Ranch	1/24	22	4.5	0.6	- -	1/24	1.85	- -	5.64	- -	- -
CCC Camp	1/31	45	14.6	3.4	8.6						
Hayden Fork	1/24	42	12.4	2.2	- -	1/24	3.76	- -	15.67	- -	- -
Kelly R.S.	1/30	59	19.0	3.2	11.9						
Monte Cristo R.S.	1/27	62	19.3	3.2	17.0b	1/27	3.45	- -	19.86	16.91a	117
Poison Meadows	2/2	111	33.1	- -	21.2b						
Salt River Summit	1/30	56	18.0	3.6	11.0	1/30	4.90	3.77	16.77	10.81	155
Snyder Basin	2/2	66	20.2	- -	10.3						
Stillwater Camp	1/24	31	8.0	1.5	- -	1/24	1.88	- -	8.89	- -	- -
LOWER BEAR RIVER (Below Harer, Idaho)											
Christensen Ranch	1/31	34	8.9	2.2	5.9						
Cliff Canyon	1/31	27	7.2	- -	- -						
Cub River R.S.	1/31	34	9.4	2.4	5.8						
Daniels Creek	1/31	22	5.9	0.7	- -						
Dry Basin	1/31	80	28.9	4.3	20.9a						
Dry Creek Flat	1/31	29	9.0	1.3	5.3	1/31	- -	- -	12.20	- -	- -
Emigrant Summit	1/31	75	23.8	3.4	17.0b						
Emigration Canyon	1/31	36	11.0	2.5	7.8a						
Franklin Basin	1/31	64	23.4	3.8	- -						
Garden City Summit	1/30	46	15.0	2.1	11.9	1/30	3.30	3.86b	18.00a	12.68b	142
Horseshoe Basin	1/31	66	25.8	4.0	17.3a						
Klondike Narrows	1/27	60	18.6	2.5	13.3	1/27	4.17e	4.91b	20.91a	13.78b	152
Liberty Springs	1/31	103	38.5	5.5	22.6						
Little Bear (lower)	1/27	35	8.7	1.6	- -						
Little Bear (upper)	1/27	38	9.3	2.2	- -						
Lower Elkhorn	1/31	42	14.4	2.2	9.8a						
Oxford Mountain	1/31	34	10.7	1.7	6.9a						
Slug Creek Divide	2/1	56	17.0	2.9	11.5a						
Steep Hollow #1	1/31	94	34.4	5.1	25.4b						
Steep Hollow #2	1/31	74	25.8	3.2	18.8b						
Strawberry Creek	1/31	39	10.1	2.2	7.2						
Strawberry Mink Divide	1/31	66	21.0	3.1	14.4						
Tony Grove Lake	1/31	103	37.4	4.5	- -						
Tony Grove R.S.	1/30	40	11.8	1.7	8.8	1/30	2.92	4.36a	17.30	13.09a	132
Upper Elkhorn	1/31	52	18.0	2.5	12.0a						
Willow Flat	1/31	52	14.8	2.3	10.5	1/31	4.89	4.81b	23.79	14.86b	160
Worm Creek	1/31	58	18.8	2.6	- -						
OGDEN RIVER											
Beaver Creek-Skunk Creek	1/27	36	10.0	1.6	8.0						
Ben Lomond Peak	1/27	98	31.0	4.2	24.0b						
Ben Lomond (lower)	1/27	54	14.8	2.5	10.0	1/27	7.31	5.45	21.98	16.81	131
Ben Lomond Trail						1/27	7.49	4.80a	- -	16.61a	- -
Causey Dam						1/27	1.89	3.05a	8.77	9.07a	97
Cutler Creek	1/27	86	24.0	3.3	18.7b						
Dry Bread Pond	1/27	50	15.4	2.8	11.3	1/27	3.85	6.43b	- -	13.30b	- -
Sagebrush Flat	1/27	17	3.7	0.6	3.7	1/27	2.17	4.47a	10.37	9.33	111
WEBER RIVER											
Beaver Creek R.S.	1/25	24	5.6	0.6	5.7						
Chalk Creek #1	1/24	57	16.1	3.6	- -						
Chalk Creek #2	1/24	39	9.2	2.6	9.0						
Chalk Creek #3	1/24	23	4.9	1.0	5.1	1/24	2.00	- -	9.40	- -	- -
East Shingle Lake (A)	1/27	72	23.8	- -	- -						
Farmington Canyon (lower)	1/27	63	16.5	3.8	13.2b	1/27	6.50	5.02	20.10	17.31	116
Farmington Canyon (upper)	1/27	76	21.4	4.4	17.5b						
Farmington G.S.						1/27	6.39	- -	22.09	- -	- -
Horse Ridge	1/27	53	16.6	2.6	- -	1/27	2.75	- -	18.62	- -	- -
Kilfoil Creek	1/27	40	9.3	1.2	- -						
Lost Creek Reservoir	1/27	24	4.6	0.0	- -	1/27	1.80	- -	8.12	- -	- -
Park City Summit	1/30	54	17.7	4.6	- -						
Parley's Canyon Summit	1/30	50	14.4	2.8	11.7	1/23	5.34	3.86	16.57	14.08	118

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+ 1958-1972 period.

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
DRAINAGE BASIN and/or SNOW COURSE				Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
WEBER RIVER (cont'd)											
Redden Mine (lower)	1/25	42	12.0	2.6	- -						
Redden Mine (upper)						1/25	- -	- -	15.55	- -	- -
Sergeant Lake (A)	1/27	54	15.1	- -	- -						
Smith & Morehouse	1/24	31	9.1	1.7	8.6b	1/24	3.26	3.26	12.76	11.62	110
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide	1/25	38	9.9	1.4	- -						
Camp Altamont	1/24	39	10.9	2.1	10.0						
Clear Creek Ridge #1	1/27	54	14.6	3.3	- -						
Clear Creek Ridge #2	1/27	41	10.2	- -	8.4	1/27	3.65	- -	13.10	9.74	134
Clear Creek Ridge #3	1/27	29	7.1	1.4	4.9						
Dutchman R.S.	1/24	54	13.9	2.7	- -	1/24	7.45	- -	18.50	- -	- -
Hobble Creek Summit	1/24	48	11.3	2.7	- -	1/24	4.90	- -	11.30	- -	- -
Packard Canyon	1/24	33	7.3	2.3	- -						
Payson R.S.	1/27	50	12.1	4.5	10.5	1/27	5.50	2.78	13.10	10.99	119
Rock Bridge	1/27	39	7.8	3.9	7.3						
Soapstone R.S.	1/25	35	9.6	1.5	8.2	1/25	2.01	3.13	11.98	10.19	118
South Fork R.S.	1/30	27	7.6	1.4	4.2						
Timpanogos Cave Camp	1/30	8	1.8	0.6	1.7						
Timpanogos Divide	1/24	58	15.1	3.6	16.3	2/1	7.37	4.73	19.07	16.72	114
Trial Lake	1/24	64	21.1	2.9	15.5	1/24	3.47	4.85	18.27	14.92	122
JORDAN RIVER & GREAT SALT LAKE											
Lamb's Canyon #2	1/30	42	12.4	2.6	- -	1/30	3.74	- -	13.52	- -	- -
Middle Canyon	1/28	29	6.5	3.4	8.0	1/28	4.90	2.62b	- -	9.90b	- -
Mill Creek	2/2	42	12.7	3.1	- -						
Mill D South Fork	1/31	43	13.2	2.6	12.5						
Mt. Dell Dam						2/1	2.33	2.16	8.67	8.72	100
Silver Lake (Brighton)	1/31	54	16.6	2.6	15.4	2/1	5.91	5.29	18.43	17.73	106
Snow Bird (Gad Valley)	1/28	89	27.3	- -	- -						
Vernon Creek	1/28	32	8.8	1.2	- -	1/28	7.75	- -	11.25	- -	- -
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	1/30	30	7.3	2.9	- -	1/30	3.65	- -	9.43	- -	- -
Bryce Canyon	1/31	17	2.4	1.0	2.8						
Castle Valley	1/26	26	7.4	2.1	- -	1/26	3.75	- -	7.10	- -	- -
Duck Creek R.S.	1/26	37	10.8	2.8	7.9	1/26	6.10	2.68	10.50	11.05	95
Farview	1/30	21	5.8	1.4	- -						
Harris Flat	1/26	28	7.3	1.6	5.3						
Kimberly Mine	1/30	41	9.6	4.2	9.8b	1/30	5.15	2.88b	12.20	10.34b	118
Midway Valley	1/24	44	10.4	4.4	12.9	1/24	6.50	- -	10.75	- -	- -
Panguitch Lake	1/26	13	4.5	1.3	- -	1/26	3.00e	- -	5.00a	- -	- -
Rainbow Point	1/30	27	7.2	1.8	- -						
Squaw Springs	1/30	23	5.6	1.4	- -						
Widtsoe 3NNE						2/1	1.13	- -	- -	- -	- -
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	1/25	40	9.5	3.5	- -	1/25	4.45	- -	10.62	- -	- -
Farnsworth Lake	1/30	46	11.8	4.6	10.5	1/30	3.35	2.61	11.20	10.83	103
G.B.R.C. Headquarters	1/27	45	10.9	4.1	8.9	1/27	5.00	2.40	14.05	10.40	135
G.B.R.C. Majors						2/1	3.30	1.30	7.57	5.90	128
G.B.R.C. Meadows	1/27	58	16.1	4.7	12.3	1/27	5.90	3.20	16.85	13.10	129
G.B.R.C. Oaks						2/1	3.80	1.60	9.15	7.00	131
Gooseberry R.S.	1/30	35	9.0	3.5	6.4	1/30	3.40	1.85b	9.85	6.94b	142
Mammoth-Cottonwood Creek	1/27	57	16.6	2.3	12.6b	1/27	5.60	3.50b	18.13	11.59b	156
Middle Fork		Not Measured									
Mt. Baldy R.S.	1/25	62	15.2	4.5	- -	1/25	5.30	- -	13.30	- -	- -
Oak Creek		Data Delayed									
Pickle Keg Springs	1/25	47	11.8	- -	- -						
Pine Creek	1/30	53	16.0	5.4	- -	1/30	11.30	- -	19.05	- -	- -
Ree's Flat		Not Measured									
Shingle Mill	2/1	31	7.7	2.1	4.7b	2/1	7.12	1.83b	10.40	8.14b	128
Thistle Flat		Not Measured									
BEAVER RIVER											
Beaver Race Track	1/31	5	1.5e	0.0	- -						

+ 1958-1972 period.

USDA SCS PORTLAND OREGON 1974 M7-0-22027Y

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
DRAINAGE BASIN and/or SNOW COURSE				Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
BEAVER RIVER (Cont'd)											
Big Flat	1/30	50	12.8	4.0	9.8	1/30	8.35	- -	13.13	9.47	139
Merchant's Valley Upper	1/30	38	9.4	3.5	- -	1/30	6.20	- -	12.15	- -	- -
Otter Lake	1/30	44	10.5	2.9	7.8						
PAROWAN CREEK											
Birch Crossing	1/25	32	4.8	1.4	- -						
Brian Head	1/25	45	9.1	3.7	13.5a						
Ed Ward Flat	1/26	31	6.9	1.4	- -						
Tall Poles	1/25	45	7.8	4.0	- -	1/25	5.60	5.76a	8.45	12.22a	69
Yankee Reservoir	1/26	31	6.5	2.3	- -	1/26	5.00	- -	7.50	- -	- -
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	1/26	23	6.1	1.8	- -	1/26	6.95	- -	9.05	- -	- -
Long Flat	1/26	24	5.2	1.0	- -	1/26	3.45	- -	6.80	- -	- -
COAL CREEK											
Cedar City Golf Course	2/1	0	0.0	0.0	- -						
SUSC Ranch	1/24	32	6.2	2.0	- -						
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Ashley-Twin Lakes (A)	1/27	24	4.3	- -	- -						
Black's Fork G.S.-East Fork	1/24	29	7.2	1.7	- -	1/24	- -	- -	8.93	- -	- -
Black's Fork Junction	1/24	29	6.6	1.5	- -	1/24	- -	- -	8.49a	- -	- -
Buck Pasture (A)	1/27	58	15.1	- -	- -						
Burnt Creek	1/30	14	3.2	1.0	- -	1/30	1.20	1.53b	3.95	6.47b	61
Dutch John Junction	1/30	12	3.3	- -	- -						
Grizzly Ridge	1/30	22	6.5	1.5	- -	1/30	1.95	2.35b	5.45	9.31b	58
Henry's Fork (A)	1/27	37	8.1	- -	- -						
Hewinta G.S.	1/24	29	6.5	1.5	- -	1/24	- -	- -	9.65	- -	- -
Hickerson Park	1/24	20	3.4	1.9	- -	1/24	- -	- -	4.10	- -	- -
Highline Trail		Not Measured									
King's Cabin (lower)	1/24	17	3.7	0.9	- -						
King's Cabin (upper)	1/24	22	4.2	1.5	- -	1/24	- -	- -	5.35	- -	- -
Reynolds Park (A)	1/27	27	8.1	- -	- -						
Spirit Lake	1/24	24	4.1	2.9	- -	1/24	- -	- -	6.25	- -	- -
Steel Creek Park	1/24	45	11.6	3.4	- -						
Trout Creek	1/24	25	4.5	1.8	- -	1/24	- -	- -	4.72	- -	- -
Windy Park (A)	1/27	12	2.2	- -	- -						
DUCHESNE RIVER											
Atwood Lake (A)	1/27	18	3.8	- -	- -						
Brown Duck Ridge	1/25	49	13.8	2.2	- -	1/25	- -	- -	11.19	- -	- -
Chepeta-Whiterocks (A)	1/27	25	7.5	- -	- -						
Currant Creek	1/24	34	8.1	1.5	- -	1/24	3.33	- -	9.63	- -	- -
Daniels-Strawberry Summit	1/24	45	10.9	2.5	9.6	1/24	5.00	3.08	15.43	11.21	138
East Portal	1/30	39	10.5	1.2	6.8	1/30	4.56	3.56b	14.49	12.48b	116
Five Points Lake (A)	1/27	36	7.9	- -	- -						
Indian Canyon	1/25	37	8.9	1.8	7.9	1/25	2.02	2.36b	9.43	9.07b	104
Jackson Park	1/25	36	7.4	2.2	- -	1/25	- -	- -	8.20	- -	- -
Lakefork Basin (A)	1/27	48	10.6	- -	- -						
Lakefork Mountain	1/25	30	6.7	0.7	6.8	1/25	- -	- -	9.03	8.09b	112
Lakefork Mountain #2		Not Measured									
Lakefork Mountain #3	1/25	21	4.0	0.5	4.3						
Lightning Lake (A)	1/27	60	16.8	- -	- -						
Mosby Mountain	1/25	25	4.8	1.2	6.5	1/25	- -	2.03a	7.13	7.18a	99
Paradise Park	1/25	25	7.5	1.0	8.4	1/25	- -	2.42b	7.15	10.72b	67
Rock Creek Ranch	1/25	20	4.6	0.9	- -	1/25	- -	- -	7.90	- -	- -
Strawberry Divide	1/30	51	16.0	2.6	11.4						
PRICE RIVER											
Dry Valley Divide	1/25	36	9.5	1.4	6.5						
Gooseberry Reservoir	1/27	54	16.4	1.7	10.9	1/27	6.05	3.07	17.49	11.06	158
Jones Ranch	1/25	22	5.0	0.5	4.1						
Mud Creek	1/25	47	11.4	1.1	8.4	1/25	4.30	2.30	12.25	8.86	138
White River #1	1/24	40	10.0	1.9	- -	1/24	3.35	- -	11.15	- -	- -

USDA SCS PORTLAND OREGON 1974 M7-0-22027Y

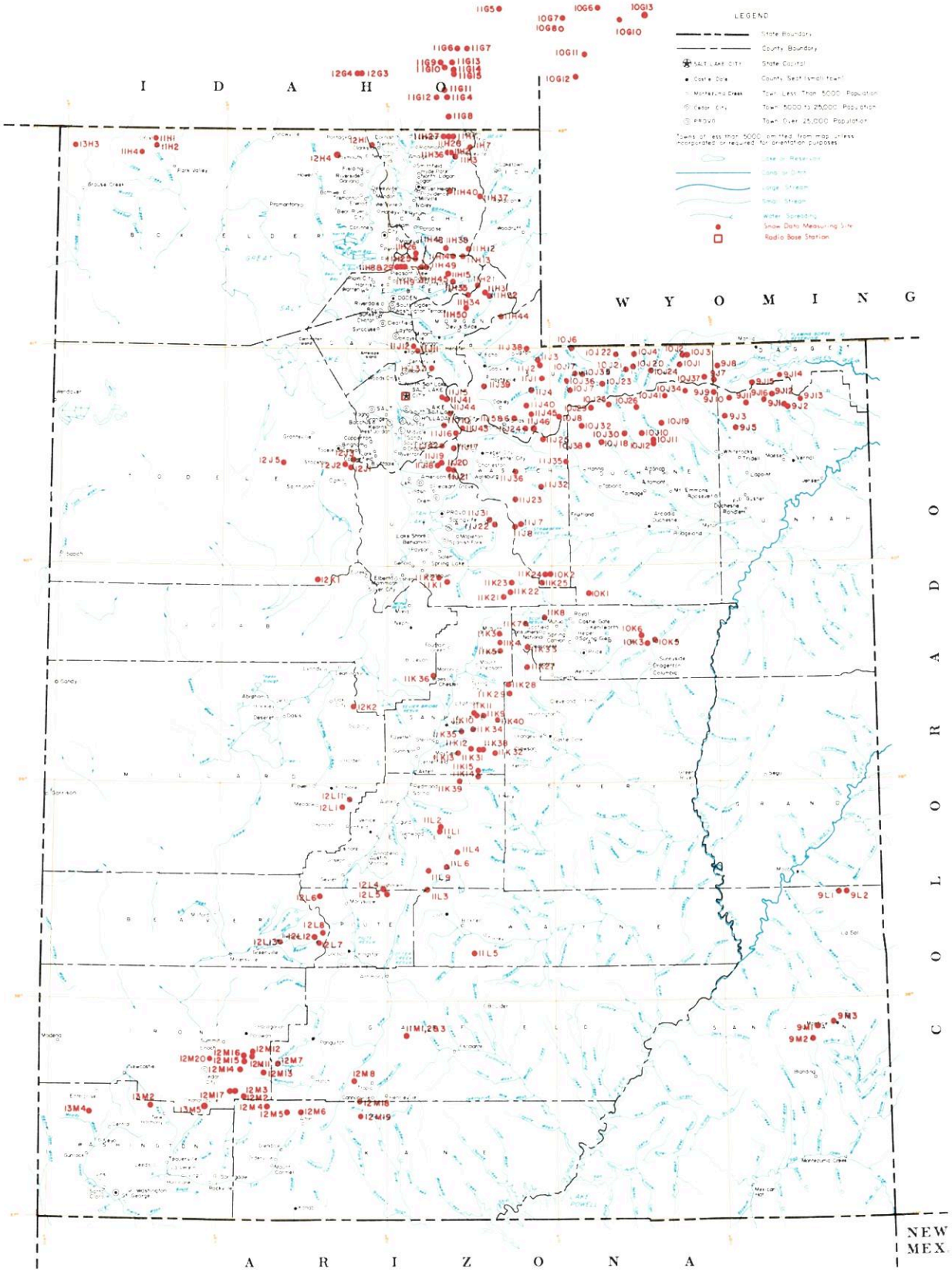
+ 1958-1972 period.

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
DRAINAGE BASIN and/or SNOW COURSE				Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
PRICE RIVER (Cont'd)											
White River #2	1/24	33	7.6	1.5	- -						
White River #3	1/24	30	9.2	1.3	- -						
SAN RAFAEL RIVER											
Buck Flat	1/25	46	12.9	2.9	9.6b	1/25	4.80	- -	14.55	10.32	141
Huntington-Horseshoe	1/27	67	21.2	3.5	- -						
Orange Olsen	1/25	21	5.0	0.0	- -	1/25	3.00	- -	5.55	- -	- -
Red Pine Ridge	1/25	44	12.0	2.5	10.2b	1/25	5.30	- -	16.13	12.40	130
Rush Pond	1/25	44	11.0	2.0	8.3b						
Seeley Creek R.S.	1/27	41	12.2	1.0	- -	1/27	5.90	- -	- -	- -	- -
Stuart R.S.	1/25	31	7.7	0.5	- -	1/25	3.95	- -	10.25	- -	- -
Upper Joe's Valley	1/25	36	9.0	1.6	6.0b						
Wrigley Creek	1/25	35	9.0	1.7	6.5						
MUDDY RIVER											
Black's Fork	1/25	42	11.4	2.4	- -						
Dill's Camp	1/25	42	11.2	1.6	- -	1/25	4.55	- -	12.83	- -	- -
FREMONT RIVER											
Black's Flat-U.M. Creek	1/30	34	9.4	2.1	- -	1/30	3.95	- -	10.37	- -	- -
Fish Lake	1/30	23	6.4	1.3	- -	1/30	3.40	1.29	8.10	5.76	141
Johnson Valley	1/30	25	6.8	1.0	- -						
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	1/30	25	6.8	1.6	- -	1/30	3.99	- -	7.31	- -	- -
Camp Jackson	1/30	36	9.4	1.9	- -	1/30	7.40	- -	10.82	- -	- -
LaSal Mountain (lower)	1/31	32	8.0	0.8	- -						
LaSal Mountain (upper)	1/31	45	11.6	2.4	- -	1/31	5.70	- -	11.82	- -	- -
Monticello City Park	1/30	14	4.7	0.0	- -						
ESCALANTE RIVER											
Widtsoe-Escalante Summit	1/27	20	5.1	0.6	4.0						
Widtsoe-Escalante #2	1/27	20	4.5	0.6	5.4						
Widtsoe-Escalante #3	1/27	26	5.6	1.4	6.6b	1/27	3.95	1.28	7.34	7.84	94
VIRGIN RIVER											
Kolob-Crystal	1/26	44	10.9	3.4	- -						
Long Valley Junction	1/26	28	6.9	1.2	3.0						
Webster Flat	1/26	44	12.3	3.6	10.1	1/26	7.80	3.25	12.00	11.75	102

a - Partly Estimated
b - Average of all past record - less than 15 years
+ - 1958-72 15 year average period
(A) - Aerial Marker Reading
e - Estimated

USDA SCS PORTLAND OREGON 1974 M7-0-22027Y

+ 1958-1972 period.



SNOW COURSES AND RELATED DATA MEASURING SITES

UTAH

1978

USGS National Atlas 1:1,000,000 Albers Equal-Area projection (1967) used as source for base map and adapted for SCS use.

ALBERS EQUAL AREA PROJECTION

INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
		UPPER BEAR RIVER (above Harer, Idaho)				
10G11	W	Big Park	7	27N	117W	8,700
10J6P	U	Burts-Miller Ranch	19	3N	10E	7,900
10G7	W	CCC Camp x	9	29N	118W	7,500
10J36p	U	Gold Hill	11	1N	9E	10,000
10J7PST	U	Hayden Fork	25	1N	9E	9,400
10G12	W	Kelly Ranger Station	13	26N	118W	8,200
10G17S	W	LaBarge Guard Station x	7	30N	116W	9,000
10J35a	U	Lily Lake	34	2N	10E	9,300
11H12PST	U	Monte Cristo R.S.	4	8N	4E	8,960
10G10	W	Piney LaBarge x	19	29N	114W	8,820
10G6	W	Poison Meadows x	29	30N	116W	8,500
10G8P	W	Salt River Summit x	32	29N	118W	7,900
10G13MP	W	Snyder Basin x	15	29N	115W	8,400
10J17P	U	Stillwater Camp	32	2N	10E	8,550
		LOWER BEAR RIVER (below Harer, Idaho)				
11H37pST	U	Bug Lake	18	11N	5E	7,950
11H36p	U	Bunchgrass	5	13N	3E	8,400
11G11	I	Christensen Ranch	27	13S	41E	5,600
11H38p	U	Cinnamon Creek	5	8N	3E	7,300
12H1p	U	Clarkston Mountain	29	14N	2W	6,300
11G12	I	Cub River Ranger Station	5	15S	41E	5,400
11G14a	I	Dry Basin	30	13S	42E	7,900
12G4	I	Dry Creek Flat	31	13S	37E	6,350
11G6	I	Emigrant Summit	21	12S	42E	7,350
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6,500
11G8MPST	I	Franklin Basin	1	16S	41E	8,000
11H7MP	U	Garden City Summit	34 & 35	14N	4E	7,600
13H4PST	U	George Peak	4	13N	4W	9,000
11H40p	U	Herd Hollow	4	11N	3E	7,000
11G15a	I	Horseshoe Basin	31	13S	42E	8,000
11H1MP	U	Klondike Narrows	10	14N	3E	7,400
11G13	I	Liberty Springs	7	13S	42E	8,240
11H26	U	Little Bear (lower)	15	8N	1E	6,000
11H25PST	U	Little Bear (upper)	22	8N	1E	6,550
12G3	I	Oxford Mountain	32	13S	37E	6,800
11G5	I	Slug Creek Divide	15	10S	44E	7,725
11H27	U	Steep Hollow #1	7	14N	3E	8,500
11H28	U	Steep Hollow #2	9	14N	3E	7,700
11G9	I	Strawberry Creek	9	13S	41E	5,800
11G10	I	Strawberry Mink Divide	14	13S	41E	6,800
11H2PST	U	Tony Grove Lake	5	13N	3E	7,400
11H3MP	U	Tony Grove Ranger Station	11	13N	3E	6,250
11G4P	I	Willow Flat	2	15S	41E	6,100
		OGDEN RIVER				
11H14M	U	Beaver Creek-Skunk Creek	22	8N	3E	7,150
11H8PST	U	Ben Lomond Peak	3	7N	1W	8,000
11H9PST	U	Ben Lomond (lower)	1	7N	1W	6,000
11H35p	U	Causey Dam	34	7N	3E	5,500
11H29	U	Cutler Creek	3	7N	1W	6,780
11H13MPST	U	Dry Bread Pond	19	8N	4E	8,230
11H34p	U	Guilder's Peak	21	6N	4E	8,050
11H45p	U	Middle Fork Ogden	16	7N	2E	8,420
11H4Y	U	Powder Mountain Hideaway	6	7N	2E	8,250
11H4B	U	Powder Mountain Sundown	1	7N	1E	8,400
11H15P	U	Sagebrush Flat	21	7N	3E	6,300
		WEBER RIVER				
11J24	U	Beaver Creek R.S.	28	2S	7E	7,500
11J1PST	U	Chalk Creek #1	4	1N	8E	9,100
11J2MPST	U	Chalk Creek #2	29	2N	8E	8,200
11J3MP	U	Chalk Creek #3	7	2N	8E	7,500
11J12P	U	Farmington Canyon (lower)	14	3N	1E	6,950
11J11PST	U	Farmington Canyon (upper)	26	3N	1E	8,000
11H44p	U	Francis Canyon	29	5N	6E	7,400
11J45a	U	East Shingle Lake	6	3N	10W	9,800
11J37p	U	Hardscrabble	16	2N	2E	6,500
11H21PST	U	Horse Ridge	1	6N	4E	8,260
11H31P	U	Kilfoil Creek	20	6N	5E	7,300
11H32P	U	Lost Creek	27	6N	5E	6,125
11J43	U	Park City Summit	20	2S	4E	9,300
11J15PST	U	Parley's Canyon Summit	5	1S	3E	7,500
11H50	U	Pine Canyon	6	5N	4E	8,000
11J38p	U	Porcupine	22	3N	7E	8,100
11J6	U	Redden Mine (lower)	1	2S	6E	8,500
11J5P	U	Redden Mine (upper)	1	2S	6E	9,000
11J39p	U	Sergeant Lakes	17	1N	5E	8,400
11J40p	U	Shingle Mill Flat	15	1S	7E	9,900
11J4PST	U	Smith & Morehouse	25	1N	7E	7,600
		PROVO RIVER & UTAH LAKE				
11J46PST	U	Beaver Creek Divide	25	2S	7E	8,000
11J20	U	Camp Altamont	29	4S	3E	7,300
11K21PST	U	Clear Creek Ridge #1	18	11S	6E	9,200
11K22PST	U	Clear Creek Ridge #2	9	11S	6E	8,000
11K23	U	Clear Creek Ridge #3	27	10S	6E	6,600
11J17P	U	Dutchman R.S.	27	3S	3E	7,560
11J22P	U	Hobble Creek Summit	27	7S	5E	7,420
11J36P	U	Lake Creek	36	4S	6E	9,100
11J31	U	Packard Canyon	21	7S	5E	6,400
11K1P	U	Payson R.S.	30	10S	3E	8,050
11K2	U	Rock Bridge	14	10S	2E	6,750
11J25P	U	Soapstone R.S.	9	3S	8E	7,800
11J19	U	South Fork R.S.	24	4S	2E	6,100
11J18P	U	Timpanogos Cave Camp	27	4S	2E	5,500
11J21PST	U	Timpanogos Divide	33	4S	3E	8,140
10J8PST	U	Trial Lake	5	2S	9E	9,800
		JORDAN RIVER & GREAT SALT LAKE				
	U	Bevan's Cabin	24	4S	4W	6,450
1	U	Deseret Peak	15	4S	7W	9,250
11J41P	U	Lamb's Canyon #2	21	1S	3E	7,400
12J3P	U	Middle Canyon	8	4S	3W	7,000
11J44	U	Mill Creek	32	1S	3E	6,500
11J10	U	Mill D South Fork	18	2S	3E	7,400
12J1P	U	Rocky Basin-Settlement Canyon	30	4S	3W	8,900
11J16P	U	Silver Lake (Brighton)	35	2S	3E	8,725
11J42	U	Snow Bird (Gad Valley)	18	3S	3E	10,000
12K1PST	U	Vernon Creek	21	10S	5W	7,500
		UPPER SEVIER RIVER (South of Richfield, Utah)				
12L4PST	U	Box Creek	33	26S	2W	9,800
12M8	U	Bryce Canyon	36	36S	4W	8,000
12M13PST	U	Castle Valley	23	36S	8W	9,700
12M4P	U	Duck Creek R.S.	11	38S	8W	8,700
12M18	U	Farview	32	37S	4W	8,200
12M5PST	U	Harris Flat	24	38S	7W	7,700
11L9p	U	High-Top Mountain	36	25S	1E	11,400
12L6P	U	Kimberly Mine	11	27S	5W	9,300
12M2MPST	U	Midway Valley	26	37S	9W	9,800
12M7P	U	Panguitch Lake	4 & 5	36S	7W	8,200
12M19	U	Rainbow Point	29	38S	4W	9,100
12L5	U	Squaw Springs	3	27S	2W	9,300
11M4p	U	Widtsoe R.S.	22	34S	2W	7,600
		LOWER SEVIER RIVER (Including San Pitch River)				
11K13P	U	Beaver Dam	27	19S	3E	8,000
11L1PST	U	Farnsworth Lake	27 & 33	23S	2E	9,900
11K11P	U	G.B.R.C. Headquarters	21	17S	4E	8,700
11K10P	U	G.B.R.C. Meadows	26 & 27	17S	4E	10,000
11L2PST	U	Gooseberry R.S.	22	23S	2E	8,400
11K3MPST	U	Mammoth R.S.-Cottonwood Creek	13	13S	5E	8,800
11K34	U	Middle Fork	16	18S	4E	9,600
11K12P	U	Mt. Baldy R.S.	19	19S	4E	9,500
12K2P	U	Oak Creek	9	17S	3W	7,760
11K39PST	U	Pickle Keg Springs	4	21S	3E	9,600
12L1PS	U	Pine Creek	24	22S	4W	8,700
11K36	U	Rees's Flat	20	15S	2E	7,300
12L11P	U	Shingle Mill	5	22S	3W	6,200
11K35	U	Thistle Flat	23	18S	3E	8,500
		BEAVER RIVER				
12L13	U	Beaver Race Track	23	29S	7W	6,020
12L7PST	U	Big Flat	18	29S	4W	10,290
12L9PST	U	Merchant's Valley (upper)	8 & 9	29S	5W	8,200
12L8	U	Otter Lake	1	29S	5W	9,300
		PAROWAN CREEK				
12M16	U	Birch Crossing	23	35S	9W	8,100
12M14	U	Brian Head	10	36S	9W	10,000
12M12	U	Ed Ward Flat	17	35S	9W	8,300
12M15P	U	Tall Poles	26 & 35	35S	9W	8,800
12M11P	U	Yankee Reservoir	20	35S	8W	8,700
		ENTERPRISE TO NEW HARMONY DRAINAGES				
13M4MP	U	Little Grassy Creek	15	38S	17W	6,100
13M2MPST	U	Long Flat	2	38S	14W	8,000
		COAL CREEK				
12M20	U	Cedar City Golf Course	11	36S	11W	5,800
12M17	U	SUSC Ranch	18	37S	9W	8,200

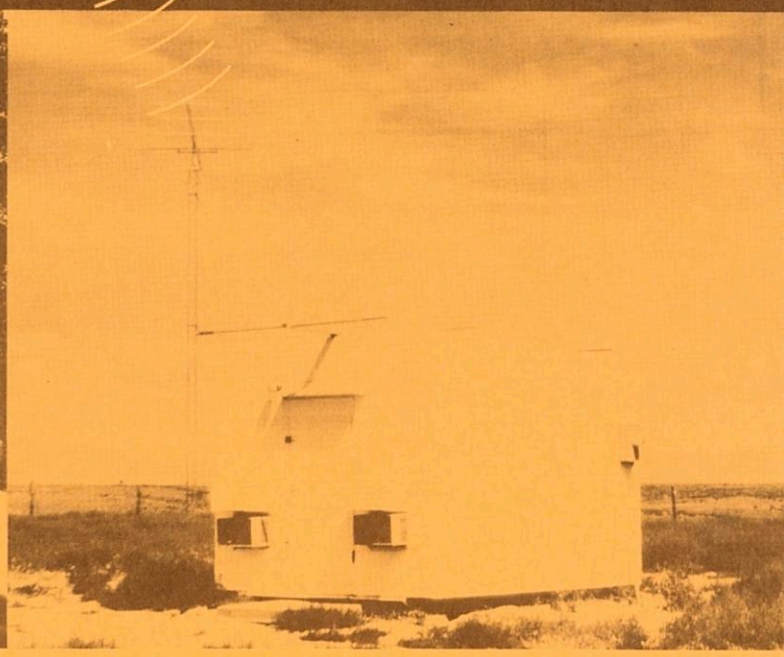
COLORADO RIVER DRAINAGE

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
		UPPER GREEN RIVER IN UTAH (above Duchesne River)				
9J11aP	U	Ashley Twin Lakes	20	1S	19E	10,500
10J21P	U	Black's Fork G.S.-East Fork	25	2N	12E	9,300
10J22P	U	Black's Fork Junction	33	3N	12E	8,925
10J23a	U	Buck Pasture	14	1N	11E	9,700
9J14P	U	Bumt Creek	4	1N	20E	7,900
9J13P	U	Grizzly Ridge	8	1S	22E	8,500
10J24ap	U	Henry's Fork	29	2N	14E	10,000
10J4P	U	Hewinta G.S.	33	3N	13E	9,500
9J8P	U	Hickerson Park	24	2N	17E	9,100
9J15p	U	Highline Trail	23	1N	19E	10,250
10J1	U	Hole-in-the-Rock	13	2N	15E	9,150
10J3	U	Hole-in-the-Rock G.S.	32	3N	16E	8,300
9J2	U	King's Cabin (lower)	23 & 26	1S	21E	8,600
9J1PST	U	King's Cabin (upper)	22	1S	21E	8,730
10J37p	U	McCoy Park	6	1N	17E	10,680
10J2	U	Middle Beaver Creek	31	3N	16E	8,550
9J10aP	U	Reynolds Park	9	1S	18E	10,400
9J7P	U	Spirit Lake	10	1N	17E	10,300
10J20PST	U	Steel Creek Park	17	2N	13E	9,900
9J16PST	U	Trout Creek	9	1S	20E	9,200
9J12ap	U	Windy Park	1	1S	20E	9,400
		DUCHESNE RIVER				
10J41ap	U	Atwood Lake	13	4N	4W	10,500
10J30PST	U	Brown Duck Ridge	8	2N	6W	10,800
9J9ap	U	Chepeta-Whiterocks Lakes	3	1S	17E	10,300
11J32MPST	U	Currant Creek	31	1S	10W	7,800
11J23MPST	U	Daniels-Strawberry Summit	20	2S	12W	8,000
11J7P	U	East Portal	36	7S	6E	7,560
10J26ap	U	Five Point Lake	28	4N	5W	11,000
10K1PST	U	Indian Canyon	2	11S	10E	9,100
10J19P	U	Jackson Park	23	3N	4W	11,300
10J34p	U	Kidney Lake	28	5N	3W	11,000
10J39P	U	Lake Basin	23	3S	8W	10,800
10J25ap	U	Lakefork Basin	13	4N	7W	11,100
10J10PST	U	Lakefork Mountain	2 & 3	2N	5W	10,200
10J11	U	Lakefork Mountain #2	17	2N	4W	8,900
10J12	U	Lakefork Mountain #3	29	2N	4W	8,100
10J29ap	U	Lightning Lake	24	4N	8W	10,950
9J5PST	U	Mosby Mountain	27	2S	18E	9,500
9J3P	U	Paradise Park	7	3N	1E	10,100
10J18P	U	Rock Creek	21	2N	7W	7,900
10J32p	U	Shadow Lake	28	3N	8W	10,150
11J8PST	U	Strawberry Divide	34 & 35	7S	6E	8,000
11J35P	U	West Fork of the Duchesne	22	1N	19E	10,250
		PRICE RIVER				
10K5M	U	Corral	32	13S	14E	8,200
11K8	U	Dry Valley Divide	20	12S	8E	7,800
10K3M	U	Grassy Trail Creek-Left Fork	2	14S	13E	7,970
11K7	U	Jones Ranch	32	12S	7E	7,600
11K33MP	U	Mud Creek	4	14S	7E	8,300
10K6	U	Timberline	28	13S	13E	9,100
10K2MPST	U	White River #1	11	10S	8E	8,550
11K24	U	White River #2	9	10S	8E	7,600
11K25	U	White River #3	30	10S	8E	7,400
		SAN RAFAEL RIVER				
11K31PST	U	Buck Flat	23	19S	4E	9,400
11K4P	U	Gooseberry Reservoir	25	13S	5E	8,700
11K5	U	Huntington-Horseshoe	12	14S	5E	9,800
11K40P	U	Orange Olsen	31	17S	6E	7,300
11K28PST	U	Red Pine Ridge	5	16S	6E	9,400
11K38	U	Rush Pond	24	19S	4E	9,800
11K9PST	U	Seeley Creek	25	17S	4E	10,000
11K27P	U	Stuart R.S.	8 & 9	15S	7E	7,950
11K29	U	Upper Joe's Valley	21	16S	6E	8,900
11K32	U	Wrigley Creek	27	19S	5E	9,000
		MUDDY RIVER				
11K14	U	Black's Fork	34	20S	4E	9,200
11K15PST	U	Dill's Camp	27	20S	4E	9,200
		FREMONT RIVER				
11L4P	U	Black's Flat-U.M. Creek	33	24S	3E	9,250
11L5	U	Donkey Reservoir	9	30S	4E	9,800
11L3P	U	Fish Lake	35	26S	1E	8,700
11L6	U	Johnson Valley	24	25S	2E	8,850
		SOUTHEASTERN UTAH DRAINAGES				
9M1P	U	Buckboard Flat	36	33S	22E	9,000
9M2P	U	Camp Jackson	22	34S	22E	8,600
9L1	U	LaSal Mountain	5	27S	24E	8,800
9L2P	U	LaSal Mountain (upper)	3	27S	24E	9,400
9M3	U	Monticello Park	25	33S	23E	7,050
		ESCALANTE RIVER				
11M1	U	Widtsoe-Escalante Summit	22	34S	1W	9,500
11M2PST	U	Widtsoe-Escalante #2	22	34S	1W	9,500
11M3PST	U	Widtsoe-Escalante #3	22	34S	1W	9,500
		VIRGIN RIVER				
13M5PST	U	Kolob-Crystal	2	38S	11W	9,250
12M6	U	Long Valley Junction	22	38S	6W	7,500
12M3MPST	U	Webster Flat	20	37S	9W	9,200
		RAFT RIVER				
13H2a	U	Clear Creek Meadows	26	14N	14W	9,050
13H4P	U	George Peak	4	13N	4W	9,000
13H1	U	One Mile Summit	19	14N	14W	7,330
13H3a	U	ViPont	17	14N	17W	7,670

LEGEND
Numbering System (example)

10J7	Snow Course Only
10J7P	Snow Course and Precipitation Gage
10J7M	Snow Course and Soil Moisture Station
10J7A	Snow Course and Aerial Marker
10J7MA	Snow Course, Soil Moisture Station and Aerial Marker
10J7MP	Snow Course, Soil Moisture Station and Precipitation Gage
10J7a	Aerial Marker Only
10J7p	Storage Precipitation Gage Only
10J7PS	Snow Course, Precipitation Gage, Snow Pillow and Temperature
10J7PST	Snotel Data Site

WATER SUPPLY OUTLOOK FOR UTAH



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

UTAH STATE DEPARTMENT OF NATURAL RESOURCES
-- DIVISION OF WATER RIGHTS

AS OF
MAR. 1, 1978

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

WATER SUPPLY OUTLOOK FOR UTAH

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
4012 FEDERAL BUILDING
SALT LAKE CITY, UTAH 84138

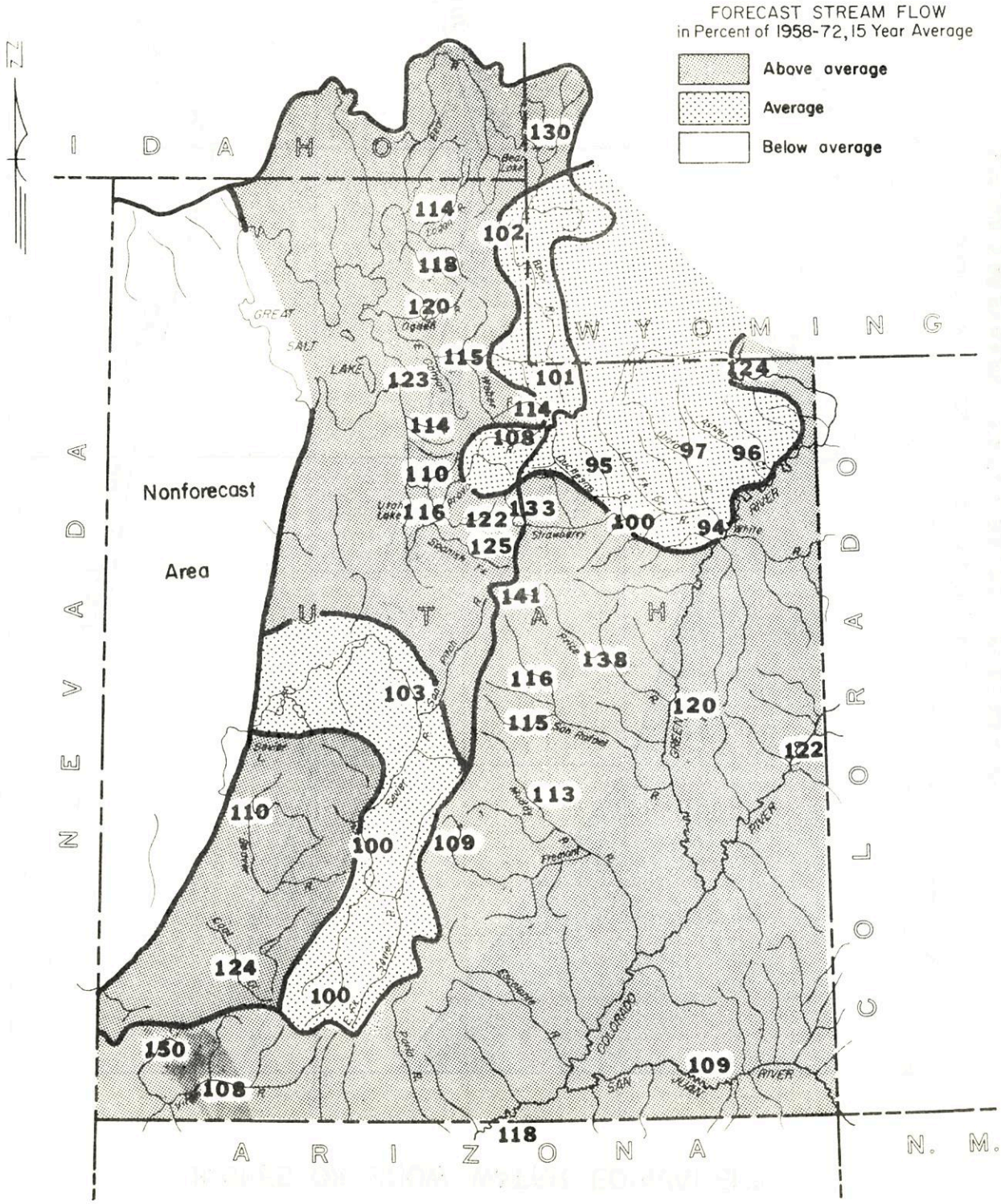
USDA-SCS-PORTLAND, OR. 1977, M7-L-22027B

PROSPECTIVE WATER SUPPLIES

Based on Snow Surveys Made on UTAH and BEAR RIVER WATERSHEDS

March 1, 1978

Approximate Date



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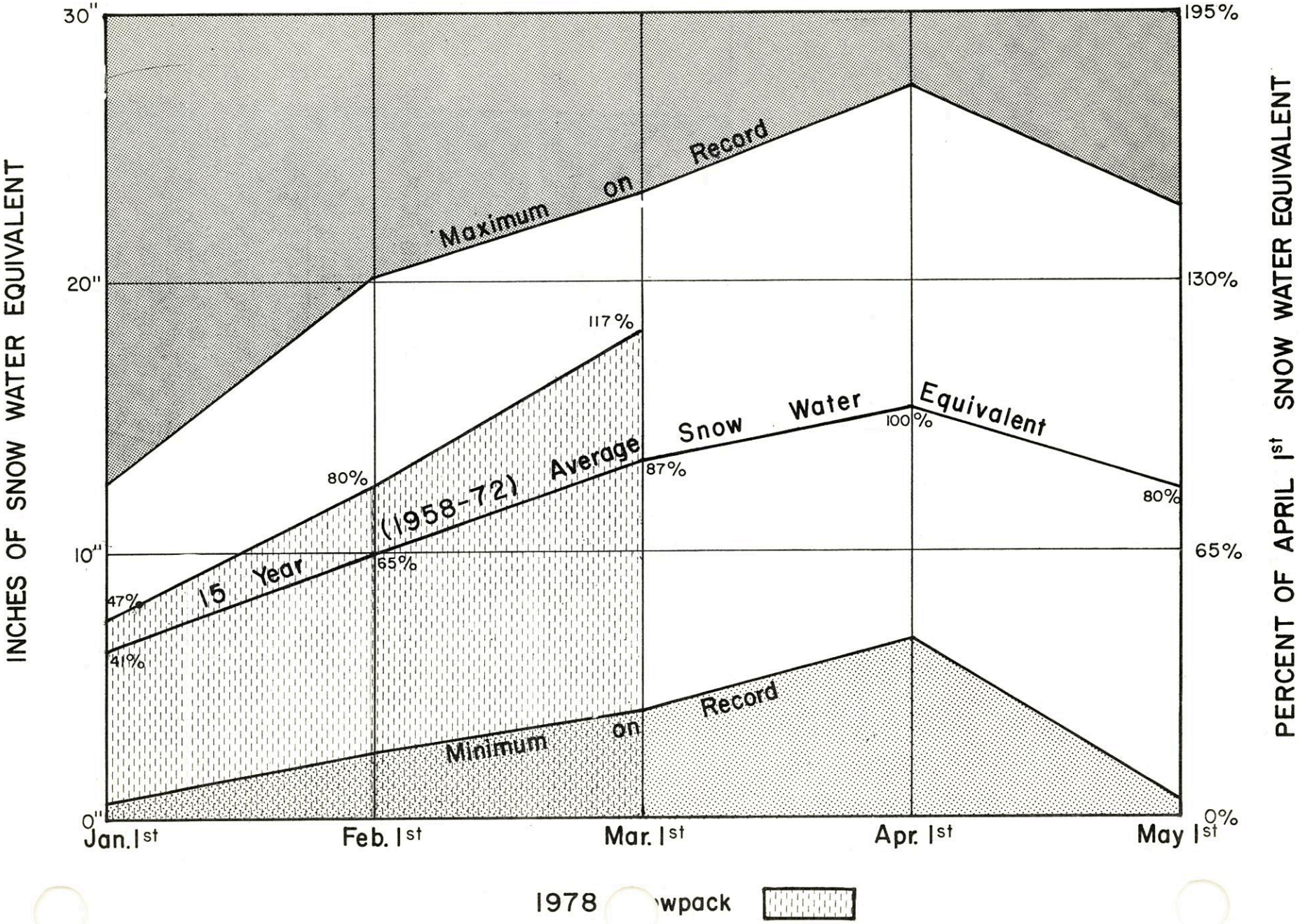
UTAH'S WINTER SNOWPACK

Data based on 51 selected snow courses



WATER SUPPLY OUTLOOK

as of
MARCH 1, 1978

* *
* Utah's 1978 water supply outlook ranges from below average *
* for some water users in Uintah and Sevier Basins to near *
* average for the rest of the state. Snow cover ranges from *
* 96% of the March 1 average above Tooele to 185% of average *
* in the Enterprise-New Harmony area. Reservoir storage *
* totals 91% of the March 1 average, but still 20% less than *
* a year ago. Streamflow forecasts range from 93 to 150% *
* of average. *
* *

SNOW COVER

Heavy February storms increased the snow water content statewide at a faster than normal rate. Basin snow cover now ranges from 96% of the March 1 average on the Oquirrh Mountains above Tooele to 185% on the mountains of south-western Utah between Enterprise and the Santa Clara River. The Uinta Mountains improved, but are still only 5 to 20% above the March 1 average and need much more to give them an adequate water supply this year.

The Upper Sevier and Virgin watersheds gained 25 to 40% during February and are now 130 to 180% respectively. The central part of the state gained about 10% and are now about 130 to 140% of the March 1 average.

The Provo, Salt Lake front, and Ogden watersheds showed good improvement during February and are now 136, 118, and 143% of their March 1 averages respectively.

Bear River and Weber River watersheds did not receive average increases in snow water content. The Upper Bear decreased 9% and is now 139% of average. The Lower Bear lost 5% during the month and is now 134% of average. The Weber lost 3% and is now 113% of the March 1 average.

The Blue Mountains above Monticello and Blanding are now 124% of the March 1 average snow water content and the LaSal's above Moab are 151% of their March 1 average.

PRECIPITATION

February precipitation at mountain stations ranged from half average to average on the Lower Bear to better than twice average at stations in south-western and north-eastern Utah mountains. Some stations in the south-western area increased as much again the week around March 1 as all during the month of February (7.5 inches). Other areas of the state were generally average to 150% of the February average.

USDA SCS PORTLAND OR 1977

WATER SUPPLY OUTLOOK (continued)

SOIL MOISTURE

Soil moisture was improved at lower elevations by warm February rain, but most higher elevations still have a soil profile which is below average below the top 12 to 24 inches.

RESERVOIR STORAGE

Reservoir storage totals 91% of the March 1 average, but 20% less than last year at 24 of Utah's key irrigation reservoirs. Those reservoirs significantly below average are those on the Sevier, Beaver, Uintah Basin, and Price River. Most reservoirs on these watersheds are not expected to fill this season.

STREAMFLOW FORECASTS

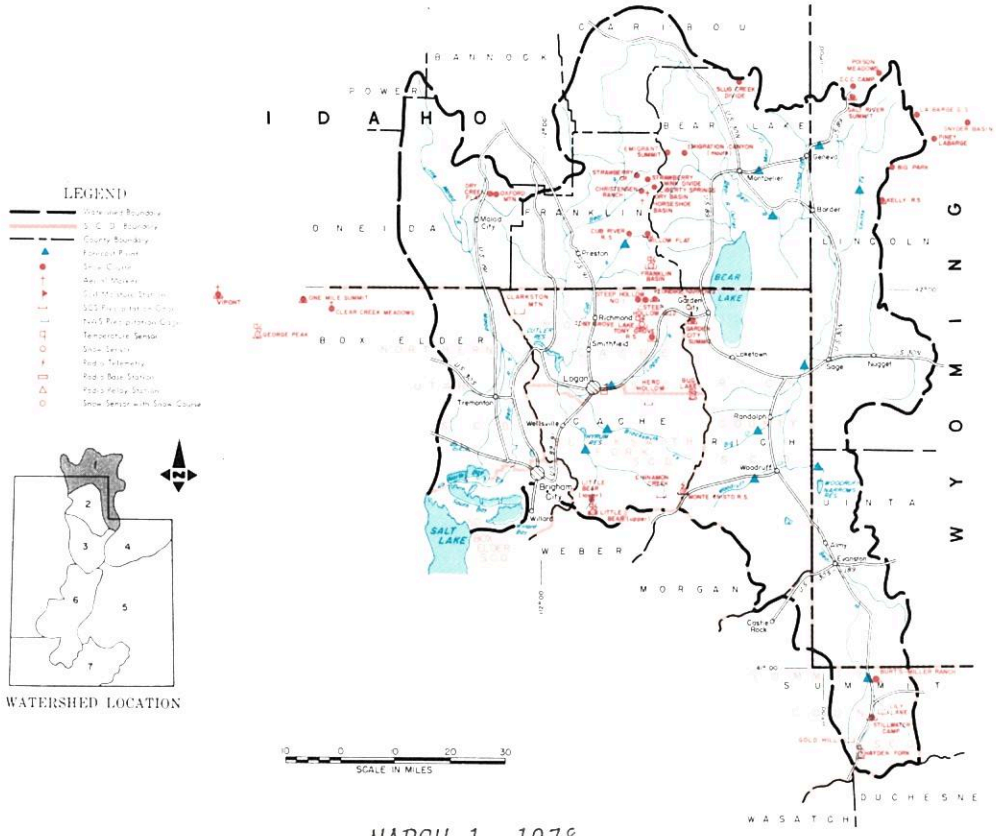
Streamflow forecasts for the April-July period improved 15 to 30% in southern Utah and as much as 5 to 20% in the northern part of the state. Some forecasts in northern Utah on the Weber, Bear and Ogden rivers stayed about the same as on February 1. Uintah Basin forecasts raised 10 to 15% and flows are now expected to be near average. Colorado River forecasts dropped 3 to 7% since February 1 due to less than normal snow accumulation on upstream watersheds in Colorado.

Most water users in Utah are expected to have adequate water supplies this season except those depending only on storage water that is well below average after last years heavy use and low flows. Areas which may be affected by short reservoir supplies are the Sevier, Lower Beaver, and Uintah Basin.

Maximum mean daily peak flows are not expected to cause problems this season unless heavy precipitation and warmer than average temperatures occur during the melt season. This condition has already occurred in the south-west corner of the state causing flooding on Shoal Creek, Santa Clara River, and other tributaries of the Virgin River. Some cropland has been flooded by out of bank flows on these streams.

WATER SUPPLY OUTLOOK
BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



MARCH 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER did not receive normal increases in February, and now ranges from 139% of average on the Upper Bear to 134% on the Lower Bear below Harer, Idaho. Logan River is now 126% of average and Raft River Mountains in Utah's northwest corner is 107% of the March 1 average.

PRECIPITATION at mountain stations during February ranged from 53% of average at Klondike Narrows on the Logan River to 106% at Salt River Summit.

SOIL MOISTURE is still less than average for the total profile at higher watershed locations, but near average at lower elevations.

RESERVOIR STORAGE is below average in Bear Lake and Woodruff Narrows, but near average in Hyrum and Porcupine reservoirs.

STREAMFLOW FORECASTS range from 101% of the April-July average on the Bear at the Utah-Wyoming State Line to 130% on Smith's and Thomas Forks and 131% on Big Creek near Randolph. Bear at Harer, Idaho, is forecast 111%, Logan River is forecast 114%, Blacksmith Fork 115%, Little Bear 118%, and Cub River 116% of average. Maximum mean daily peak flows in this area are expected to be about average unless precipitation or temperature extremes occur to cause snowmelt at a faster than normal rate.

M7-OL-22027-1

BEAR RIVER BASIN in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average †
BEAR RIVER					
Bear nr UT-Wyo. State Line	113	101	Apr-July	41	112
Bear nr Woodruff	136	103	Apr-July	28	131
Woodruff Crk nr Woodruff, UT	17.4	113	Apr-July	2.7	15.4
Big Creek nr Randolph, Utah	5.5	131	Apr-July	--	4.2b
Bear nr Randolph	104	102	Apr-July	3.4	102
Thomas Fork nr Ut-Wy State Ln	42	130	Apr-Sept	3.8	32
Smith's Fork nr Border, Wyo.	150	130	Apr-Sept	26.8	116
Bear at Harer, Idaho 1	330	111	Apr-Sept	34.6	297
Logan nr Logan 1	129	114	Apr-July	34	113
Blacksmith Fork nr Hyrum	55	115	Apr-July	16.7	48
Little Bear nr Paradise	40	118	Apr-June	6.3	34
Cub River nr Preston, ID	58	116	Apr-Sept	--	50

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction
b - Average of all past record - less than 15 years

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
BEAR RIVER	29	532	135
UPPER BEAR RIVER	7	535	139
LOWER BEAR RIVER	22	531	134
LOGAN RIVER	4	442	126
RAFT RIVER	3	459	107

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average†
BEAR RIVER	Bear Lake	1421.0	785.5	1040.3	958.3
	Woodruff Narrows	26.5	4.0	3.0e	21.6
	Birch Creek		0.8	--	--
	Woodruff Creek		1.2	--	--
LITTLE BEAR	Hyrum	15.3	10.2	13.1	10.7
	Porcupine	11.3	3.5	3.9	3.6

+ - 1958-72 15 Year Average Period
e - estimated

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a) Forecast Range	PEAK FLOW (SECOND FEET) (a) Average †
Big Creek nr Randolph	40-80	41b
Logan River nr Logan	760-1300	984
Woodruff Creek nr Woodruff	250-350	240
Little Bear nr Paradise	450-550	473

(a) - Maximum mean daily peak flow

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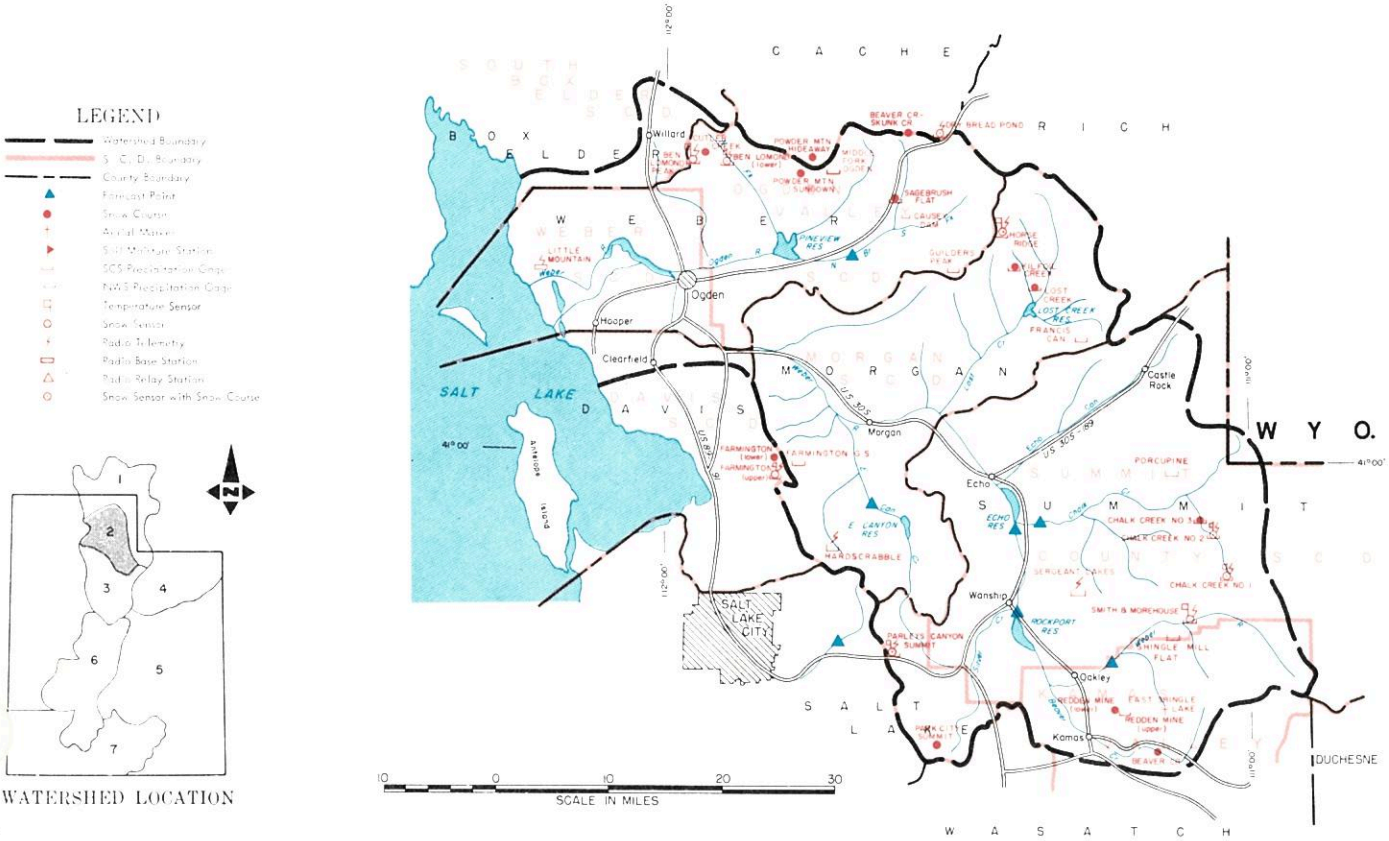
WATER SUPPLY OUTLOOK

WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



MARCH 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 113% of the March 1 average on the Weber River to 143% on the Ogden.

PRECIPITATION at mountain locations ranged from 52% of average at Causey Dam to 188% at Ben Lomond Trail across the valley on the Ogden River. Weber precipitation ranged from 88% at Chalk Creek #3 to 130% at Farmington Lower and 129% at Parleys Summit.

SOIL MOISTURE is generally below average at medium and high elevations, but average or better at most valley locations.

RESERVOIR STORAGE has improved and is now 98% of the March 1 average on the Ogden and 102% on the Weber. Lost Creek is the lowest at 81% of average.

STREAMFLOW FORECASTS range from 97% on Chalk Creek to 139% on Hardscrabble Creek. South Fork Ogden is forecast 118% and Pineview Inflow 120% of the April-June average. The Weber is forecast 114% at Oakley, 117% for Rockport Inflow and 115% near Coalville. East Canyon Creek is forecast 123% and Lost Creek 116% of average. Maximum mean daily peak flows are expected to range from near normal to 1½ times normal in this area, assuming normal temperature and precipitation during the melt period.

M7-OL-22027-2

WEBER-OGDEN WATERSHEDS in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average +
WEBER-OGDEN RIVERS					
Weber nr Oakley	114	114	Apr-June	31.6	100
Rockport Reservoir Inflow 1	122	117	Apr-June	--	104
Chalk Creek at Coalville	31	97	Apr-June	4.2	32
Weber nr Coalville	130	115	Apr-June	14.3	113
Lost Creek nr Croydon, Utah 1	15.9	116	Apr-June	2.5	13.7
East Canyon Creek nr Morgan 1	27	123	Apr-June	11.4	22
Hardscrabble Crk nr Porterville	20	139	Apr-June	--	14.4b
South Fork Ogden nr Huntsville	59	118	Apr-June	8.5	50
Pineview Reservoir Inflow 2	132	120	Apr-June	13.5	110
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	10.1	129	Apr-July	--	7.8

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U.S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
b - Average of all past record - less than 15 years

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
OGDEN RIVER	6	643	143
WEBER RIVER	10	347	113

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average +
OGDEN	Causey	6.9	3.9	2.6	2.2
	Pineview	110.1	38.2	54.4	40.6
WEBER	East Canyon	48.1	21.1	31.8	19.5
	Echo	73.9	45.1	47.6	43.5
	Lost Creek	20.0	10.1	13.0	12.6
	Rockport	60.9	26.6	26.0	27.6
	Willard Bay	193.3	127.1	146.1	121.5

+ - 1958-72 15 Year Average Period

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a) Forecast Range	PEAK FLOW (SECOND FEET) (a) Average +
Lost Creek nr Croydon	200-300	206b
South Fork Ogden nr Huntsville	650-900	697
Chalk Creek nr Coalville	150-550	373

(a) - Maximum mean daily peak flow

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WATER SUPPLY OUTLOOK

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

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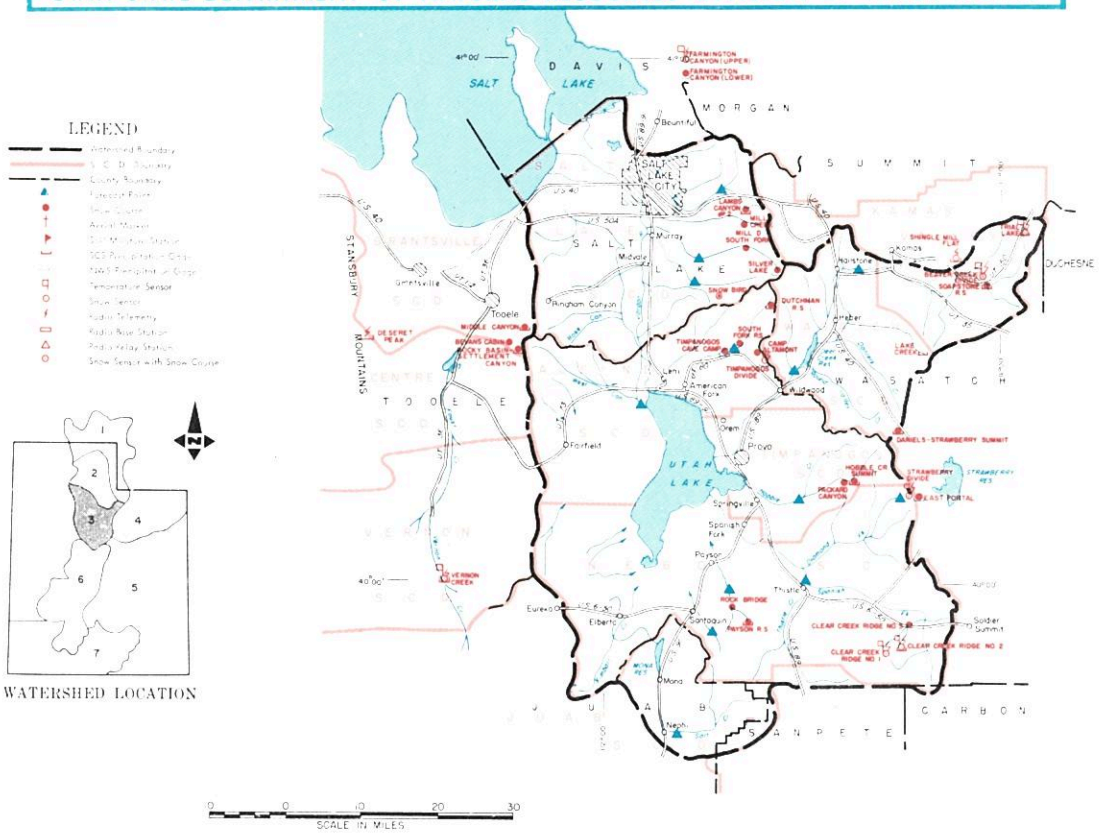
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



MARCH 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER now ranges from 96% of the March 1 average above Tooele to 136% on Utah Lake tributaries. Watersheds along the Salt Lake front are 118% of average.

PRECIPITATION at mountain stations ranged from 91% of average at Mt. Dell Dam to 176% at Timpanogos Divide. Trial Lake was 162% and Silver Lake 117% of the February average.

SOIL MOISTURE is below average on the upper watersheds, but valley soils are very wet.

RESERVOIR STORAGE is 112% of the March 1 average in Utah Lake, 124% of average in Strawberry, but only 75% of average in Deer Creek. Settlement Creek and Vernon Creek each have 400 acre feet and should fill this year.

STREAMFLOW FORECASTS range from 108% of average on the Provo to 214% on Vernon Creek. Settlement Creek above Tooele is estimated at 114% of average. Strawberry Inflow is forecast 133%, Spanish Fork 125%, Hobble Creek 122%, American Fork 110%, and Utah Lake Inflow 116%. Little Cottonwood above Salt Lake is forecast 111%, Big Cottonwood 113%, and Parleys 114%. Maximum mean daily peak flows are not expected to be a problem unless warmer than normal temperatures cause early runoff on Vernon Creek.

M7-OL-22027-3

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average †
PROVO RIVER AND UTAH LAKE					
Provo nr Hailstone[1]	110	108	Apr-July	31.5	102
Provo below Deer Creek Dam[1]	120	108	Apr-July	50.1	111
American Fork nr American Fork	32	110	Apr-July	7.5a	29
Hobble Creek nr Springville[1]	19.5	122	Apr-July	--	16
Strawberry Reservoir Inflow[1]	60	133	Apr-July	5.7	45
Spanish Fork at Thistle	40	125	Apr-July	--	32
Payson Creek nr Payson	8.3	114	Apr-July	--	6.3
Utah Lake Inflow	242	116	Apr-July	124.7	208
JORDAN RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	39	111	Apr-July	19.8	35
Big Cottonwood nr SLC	41	113	Apr-July	18.8	36
Parley's Creek nr SLC	13.1	114	Apr-July	3.5	11.5
TOOELE VALLEY					
Vernon Creek nr Vernon	1.5	214	Mar-July	0.6	0.7
Settlement Crk nr Tooele	2.5	114	Apr-July	--	2.2

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction
a - Partly estimated

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
PROVO RIVER & UTAH LAKE	9	449	136
JORDAN RIVER & SALT LAKE	3	312	118
TOOELE VALLEY	1	198	96

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average †
SPANISH FORK	Strawberry	270.0	143.8	207.2	116.4
UTAH LAKE	Utah Lake	883.9	675.8	758.0	604.0
	Settlement Creek	1.2	0.4	0.6	--
	Vernon Creek	0.6	0.4	0.5	--
PROVO	Deer Creek	149.7	71.6	89.7	95.3

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a) Forecast Range	PEAK FLOW (SECOND FEET) (a) Average †
Hobble Creek nr Springville	300-500	210
Spanish Fork nr Thistle	350-700	365
Big Cottonwood nr Salt Lake City	375-525	310

(a) - Maximum mean daily peak flow

† 1958-1972 period

USDA SCS PORTLAND, OREGON 1974 M7-N-22027X

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AGR-101

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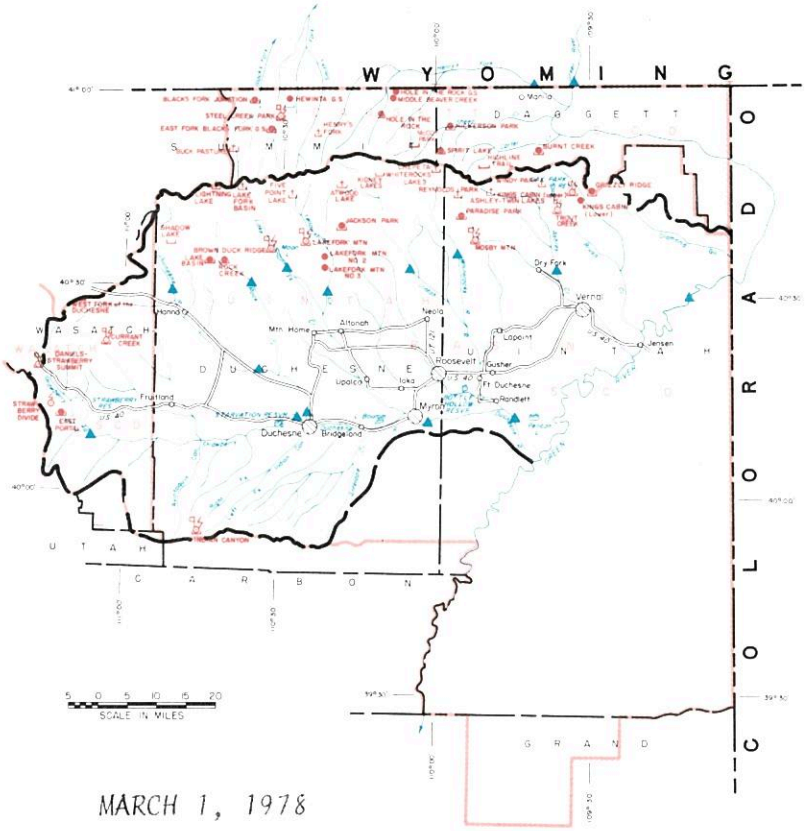
"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



MARCH 1, 1978

THE WATER SUPPLY OUTLOOK IS STILL BELOW AVERAGE

SNOW COVER ranges from 105% on the Black's Fork drainage up to 123% of the March 1 average on Lakefork and Yellowstone Creeks. Snow water contents are some three to eight times greater than those surveyed last year at this time.

PRECIPITATION as measured at mountain stations for the month of February shows a range from 117% to 215% of average. Catches for the October through February period vary from 92% to 138% of average.

SOIL MOISTURE conditions have improved at the lower elevations, however, higher watershed soils are not fully recharged.

RESERVOIR STORAGE is still below average for this time of year. Moon Lake has only 65% of its average useable storage, and Steinaker only 40%. Steinaker is still 12,000 acre feet below last years level.

STREAMFLOW FORECASTS in the basin are projected to be near average, and range from 94% of average for the April-July period on the Yellowstone to 127% on Currant Creek. Flaming Gorge Inflow is expected to be 1,450,000 acre feet for 124% of average. The Duchesne is forecast at 101% near Tabiona, 105% at Duchesne, 115% at Myton, and 112% at Randlett.

M7-OL-22027-4

UINTAH BASIN and DAGGETT SCD's in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average +
DUCHESNE RIVER					
Duchesne nr Tabiona[1]	105	101	Apr-July	19.2	104
Duchesne at Duchesne[1]	185	105	Apr-July	48.4	177
Strawberry at Duchesne	70	125	Apr-July	10.1	56
Rock Creek nr Mtn. Home	90	95	Apr-July	34.5	95
Currant Creek nr Fruitland	25	127	Apr-July	--	19.7
Lakefork below Moon Lake[1]	67	97	Apr-July	30.2	69
Yellowstone nr Altonah	65	94	Apr-July	29.1	65
Duchesne at Myton[1]	250	115	Apr-July	8.3	218
Whiterocks nr Whiterock	55	95	Apr-July	24.2	58
Uintah nr Neola	85	97	Apr-July	70.5	88
Duchesne at Randlett[1]	300	112	Apr-July	13.1	267
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork at Linwood	45	100	Apr-Sept	3.6	45
Black's Fork at Millburne	90	96	Apr-July	43.6	94
Flaming Gorge Inflow[1]	1450	124	Apr-July	233.0	1174
Ashley Creek nr Vernal	48	96	Apr-July	14.2	50

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Years Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average*
DUCHESNE RIVER - TOTAL	8	515	123
LAKEFORK-YELLOWSTONE CREEKS	2	845	123
STRAWBERRY RIVER	3	407	131
UINTAH - WHITEROCKS RIVERS	2	844	112
ASHLEY CREEK	2	894	106
BLACK'S FORK	3	300	105

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average†
ASHLEY CREEK	Steinaker	33.3	8.3	20.3	20.8
GREEN RIVER	Flaming Gorge	3749.0	1987.1	2934.0	1588.0
LAKE FORK	Moon Lake	35.8	11.5	7.2	17.8
STRAWBERRY	Starvation	165.3	127.6	165.8	--
UINTAH	Bottle Hollow	11.3	10.1	10.6	--

+ - 1958-72 15 Year Average Period

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a) Forecast Range	PEAK FLOW (SECOND FEET) (a) Average +
Strawberry at Duchesne	750-1500	628
Ashley Creek nr Vernal	600-1300	906

(a) - Maximum mean daily peak flow

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WATER SUPPLY OUTLOOK
CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

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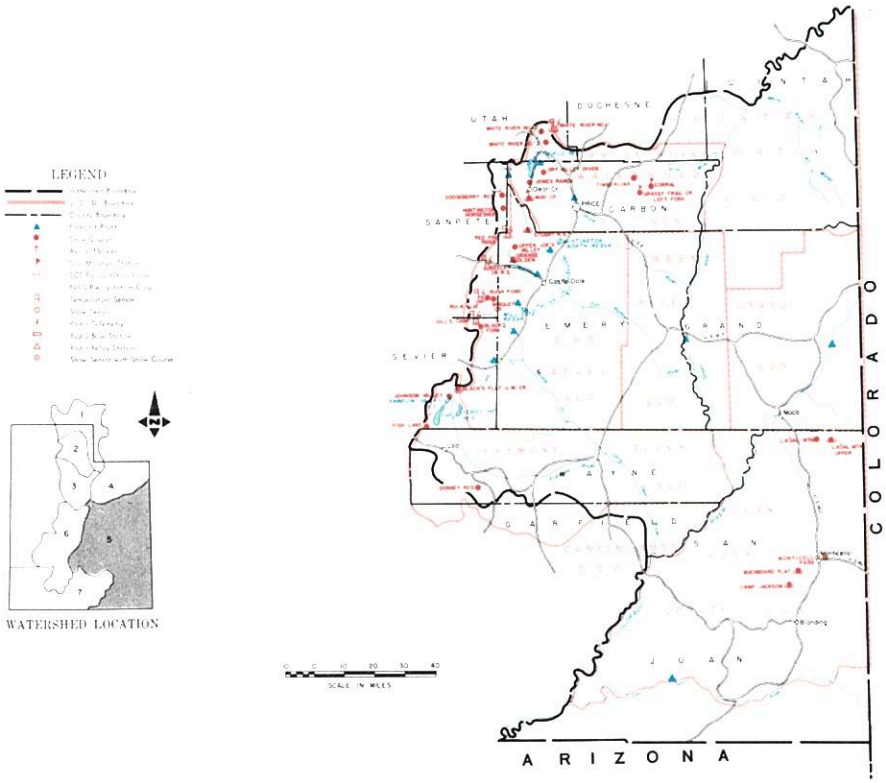
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



MARCH 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 130% of the March 1 average on the Price River to 166% on Fremont River and 143% on San Rafael River. LaSal mountains are now 151% and Blue Mountains are 124% of the March 1 average.

PRECIPITATION at mountain stations ranged from 121% at Mud Creek to better than 200% at Orange Olsen and Buck Flat during February.

SOIL MOISTURE on the upper watershed is still below average except in the top 12 to 24 inches.

RESERVOIR STORAGE is still below average in Scofield, but near average in Joes Valley, and Huntington North. Mill Site is about 500 acre feet less than last year at this time, but should fill if runoff progresses as expected.

STREAMFLOW FORECASTS range from 109% on Seven Mile Creek to 143% on Gooseberry Creek near Scofield. Scofield Inflow is forecast at 141% and the Price near Heiner 138% of the April-July period. Huntington Creek is forecast 116%, Cottonwood 111%, Ferron 115%, and Muddy 113%. Mill Creek near Moab is forecast 112%, San Juan near Bluff 109%, Green at Green River 120%, and Colorado near Cisco 122%. Maximum mean daily peak flows are not expected to be a problem unless excessive temperatures and/or precipitation occurs during the runoff period.

M7-OL-22027-5

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average +
PRICE RIVER					
Gooseberry Crk nr Scofield	14.8	143	Apr-July	2.2	10.0
Scofield Reservoir Inflow	48	141	Apr-July	4.2	34
Price nr Heiner[1]	88	138	Apr-July	--	64b
SAN RAFAEL RIVER					
Huntington Crk nr Huntington	52	116	Apr-July	11.3	45
Cottonwood Crk nr Orangeville	51	111	Apr-July	10.4	46b
Ferron Creek nr Ferron	40	115	Apr-July	15.9	35
MUDDY CREEK					
Muddy Creek nr Emery	20.0	113	Apr-July	3.5	17.7
UPPER COLORADO BASIN					
Colorado nr Cisco, Utah	3450	122	Apr-July	534.6	2835
Green at Green River, Utah	3400	120	Apr-July	882.7	2839
Mill Creek nr Moab	5.5	112	Apr-July	1.4	4.9
Navajo Reservoir Inflow	600	101	Apr-July	--	597
San Juan nr Bluff, Utah	930	109	Apr-July	122.8	853
FREMONT RIVER					
Seven Mile Crk nr Fish Lake	7.0	109	Apr-July	--	6.4b

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN, WHOLE or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average +
PRICE RIVER	7	483	130
SAN RAFAEL RIVER	6	398	143
FREMONT RIVER	3	394	166
LASAL MOUNTAINS	2	809	151
BLUE MOUNTAINS	2	756	124

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average +
PRICE RIVER	Scofield	65.8	17.3	29.1	30.0
SAN RAFAEL	Huntington North	3.9	2.7	3.4	2.2
	Joe's Valley	54.6	34.1	37.4	31.6
	Mill Site	16.7	1.2	1.7	--
SAN JUAN	Navajo	1696.0	934.8	1120.7	--

+ - 1958-72 15 Year Average Period
b - Average of all past record - less than 15 years

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a) Forecast Range	PEAK FLOW (SECOND FEET) (a) Average +
Ferron Creek near Ferron	650-800	419
Muddy Creek near Emery	150-250	157

(a) - Maximum mean daily peak flow

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WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

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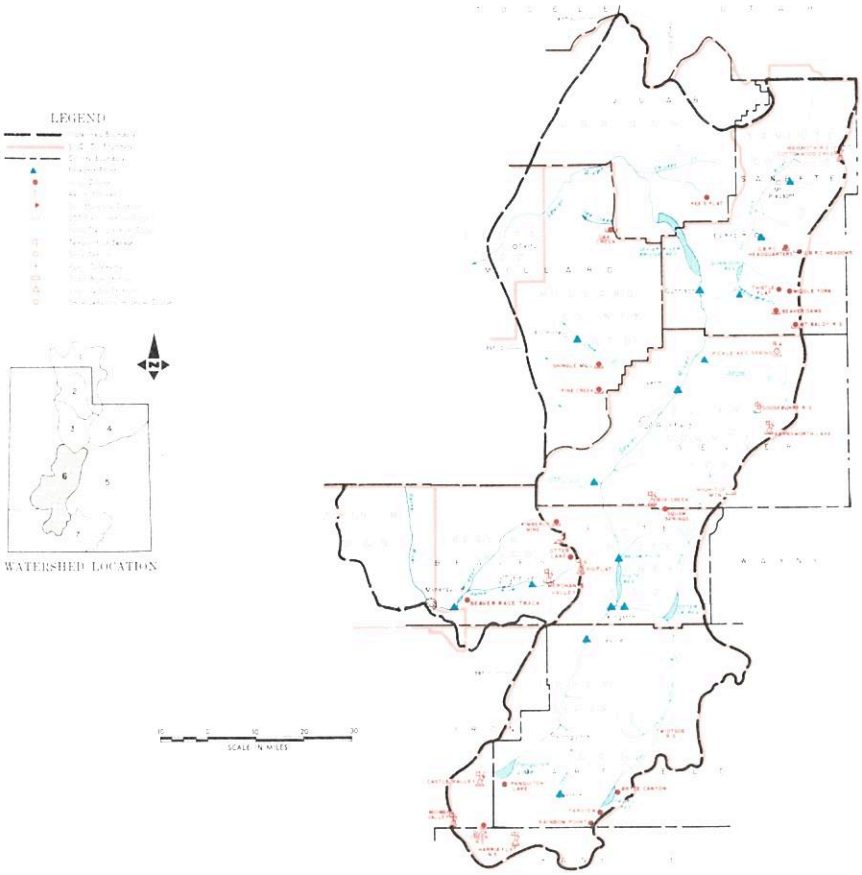

MARCH 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE FOR NATURAL FLOW USERS AND BELOW AVERAGE FOR STORAGE WATER USERS

SNOW COVER is now 130% of the March 1 average on the Upper Sevier and 132% on the Beaver. Surveys on the Lower Sevier have been delayed by bad weather, but those measured are running about 120 to 150% of average.

PRECIPITATION at mountain locations ranged from 223% of the February average at Duck Creek to 103% at Farnsworth Lake.

SOIL MOISTURE is below average on upper watersheds and near average in the valleys.

RESERVOIR STORAGE is still well below average. Gunnison is now 21% of the March 1 average, Otter Creek 74%, Piute 49%, and Sevier Bridge 82%. Minersville is 43% of average. These reservoirs are not expected to fill this season.

STREAMFLOW FORECASTS are now near average for the April-July period, ranging from 93% of average for the Sevier at Kingston to 116% for Chalk Creek near Fillmore. Sevier at Hatch is forecast 100%, 107% at Circleville, and 103% at Gunnison. Beaver River is forecast 107% near Beaver, 109% for North Creeks, and 110% for the Inflow to Minersville. Primary water is expected to be near average this season. Inflow to Sevier Bridge Reservoir during the October-March period is expected to be about 54,000 acre feet and the flow below Vermillion above the 360 c.f.s. is expected to be about 2,000 acre feet.

M7-OL-22027-6

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average †
SEVIER RIVER					
Sevier at Hatch	40	100	Apr-July	10.6	40
Sevier nr Circleville	30	107	Apr-July	--	28
Sevier nr Kingston	19.5	93	Apr-July	1.9	21
Antimony Crk nr Antimony	7.4	101	Apr-July	--	7.3
East Fork Sevier nr Kingston[1]	14.4	100	Apr-July	--	14.4
Sevier below Piute Dam[1]	33	100	Apr-July	--	33
Clear Crk nr Sevier (abv Div)	17.2	115	Apr-July	4.1	15.0
Inflow					
Kingston to Vermillion Dam	47	94	Apr-June	--	50
Vermillion Dam to Gunnison	40	103	Mar-June	--	39
Salina Creek at Salina	8.5	105	Apr-June	0.1	8.1b
Sevier nr Gunnison	40	103	Apr-July	15.4	39
Chalk Creek nr Fillmore	18.0	116	Apr-July	--	15.5b
SAN PITCH RIVER					
Ephraim Creek nr Ephraim	16.7	120	Apr-July	--	13.9b
Pleasant Crk nr Mt. Pleasant	9.4	121	Apr-July	--	7.8
BEAVER RIVER					
Beaver nr Beaver	21.4	107	Apr-July	6.1	20
North Creek (Combined)	12.8	109	Apr-July	--	11.7
Minersville Reservoir Inflow[1]	6.4	110	Apr-July	--	5.8

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Years Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
UPPER SEVIER RIVER	9	585	130
East Fork Sevier	6	597	131
South Fork Sevier	6	671	130
LOWER SEVIER	6	292	140
BEAVER RIVER	2	373	132

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average†
SEVIER RIVER	Gunnison	18.2	2.5	2.7	12.2
	Otter Creek	52.5	21.8	31.1	29.4
	Piute	71.8	21.0	24.2	43.0
	Sevier Bridge	236.0	81.7	117.7	100.0
BEAVER RIVER	Minersville (Rky Fd)	23.3	5.6	7.6	13.0

b - Average of all past record - less than 15 years
† - 1958-72 15 Year Average Period

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a) Forecast Range	PEAK FLOW (SECOND FEET) (a) Average †
Sevier River at Hatch	390-625	418
Sevier River nr Circleville	300-500	304
Sevier River nr Kingston	275-375	263
Clear Creek nr Sevier	170-210	170
Salina Creek nr Salina	175-210	235
Beaver River nr Beaver	175-250	212

(a) - Maximum mean daily peak flow

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second-Ft	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Creek nr Sevier-above Div.	5	July 25	July 28
Salina Creek at Salina	25	June 6	June 10
Sevier at Circleville	90	June 25	June 24
Sevier at Hatch (upper)	100	July 10	July 10

PRIMARY WATER RIGHT FORECASTS (PERCENT OF WATER RIGHT DELIVERED)

RIVER SECTION	Percent Forecast For This Year	Average Percent Delivered During 15 year Period†	Forecast Period
SEVIER RIVER			
Panguitch Valley	95	81	April-Sept
Circle Valley	78	65	April-Sept
Sevier Valley	50	38	April-Sept
Below Vermillion Dam	49	55	April-Sept

Inflow to Sevier Bridge Reservoir for the October-March period is expected to be about 54,000 acre feet.

The flow below Vermillion - Above 360 cfs is expected to be 2,000 acre feet.

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WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS

MARCH 1, 1978

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER now ranges from 119% of the March 1 average on Parowan Creek to 185% on Enterprise-New Harmony drainages. Coal Creek is now 142% and Virgin River is 180% of average as measured the last week of February.

PRECIPITATION at mountain stations was as much as three times average. Webster Flat caught 9.40 inches during February and Little Grassy above Enterprise caught 7.40 inches through February 23 and another 7.5 inches from the 23rd to March 6. This heavy warm precipitation around the first of March melted snow below about 7,000 feet and then replaced about 10 inches of snow at Little Grassy by the sixth of March.

SOIL MOISTURE is above average over most of the area.

RESERVOIR STORAGE is now reported as near or above average after heavy precipitation and snowmelt caused above average runoff on the Virgin and Enterprise-New Harmony watersheds. Gunlock Reservoir was reported to be spilling March 3, Lower Enterprise Reservoir was also full and Upper Enterprise lacked about four feet of filling on March 6.

STREAMFLOW FORECASTS now range from 108% of average for Virgin River to 150% for the Santa Clara for the April-June period. Heavy flow has already occurred on these streams as a result of the warm, wet storm about March 1. Coal Creek is forecast 124% of average and Lake Powell Inflow 119%. Maximum mean daily peak flows from snowmelt are expected to be about 1½ to 2 times normal and could be higher if warm rain and temperatures cause faster than usual runoff.

M7-OL-22027-7

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	This Year: Forecast: Thousand Acre Feet	This Year: Forecast: Percent of Average	This Year: Forecast Period	Past Record: Thousand Acre Feet: Last Year 2	Past Record: Thousand Acre Feet: Average †
VIRGIN RIVER					
Virgin nr Virgin	52	108	Apr-June	24.7e	48b
Santa Clara nr Pine Valley	5.4	150	Apr-June	0.8	3.6b
COAL CREEK					
Coal Creek nr Cedar City	20	124	Apr-July	3.6	16.1
UPPER COLORADO					
Lake Powell Inflow	8182	119	Apr-July	1130	6881

2 - Provisional Flows - Subject to correction

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	This Year as a Percent of: Last Year	This Year as a Percent of: Average
COAL CREEK	3	853	142
VIRGIN RIVER	2	1136	180
PAROWAN CREEK	3	403	119
ENTERPRISE - NEW HARMONY	2	1480	185

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	Useable Storage: This Year	Useable Storage: Last Year	Useable Storage: Average †
COLORADO	Lake Powell	25002.0	14555.0	17985.0	8401.0b
	Blue Mesa	829.5	235.1	393.2	--

b - Average of all past record - less than 15 years
† - 1958-72 15 Year Average Period

PEAK FLOWS

FORECAST POINT	Peak Flow (Second Feet) (a): Forecast Range	Peak Flow (Second Feet) (a): Average †
Coal Creek nr Cedar City	100-380	245
Virgin nr Virgin	800-1250	631b

(a) - Maximum mean daily peak flow

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SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
DRAINAGE BASIN and/or SNOW COURSE				Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
GREAT BASIN											
UPPER BEAR RIVER (Above Harer, Idaho)											
Big Park	2/27	71	25.8	5.2	18.1						
Burts-Miller Ranch	2/28	19	4.3	1.2	--	2/28	1.20	--	6.84	--	--
CCC Camp	2/27	49	16.4	3.2	11.4						
Hayden Fork	2/28	48	14.6	5.0	--	2/28	3.35	--	19.02	--	--
Kelly R.S.	2/27	66	24.0	4.2	16.8	2/27	3.30	--	--	--	--
Monte Cristo R.S.	2/23	64	25.0	4.9	22.3	2/23	3.43	4.62b	23.29	22.89b	102
Piney LaBarge	Discontinued										
Poison Meadows	3/1	108	39.4	7.8	26.3						
Salt River Summit	2/27	62	21.2	4.2	14.6	2/27	3.58	3.36	20.33	14.17	143
Snyder Basin	3/1	65	21.8	3.0	15.5						
Stillwater Camp	2/28	36	10.1	3.1	--	2/28	1.98	--	10.87	--	--
LOWER BEAR RIVER (Below Harer, Idaho)											
Bug Lake	2/23	52	18.5	--	--						
Christensen Ranch	2/24	33	11.2	3.4	7.7						
Cliff Canyon	2/24	37	12.3	1.2	--						
Cub River R.S.	2/24	30	11.0	4.5	8.0						
Daniels Creek	2/24	25	7.9	0.8	--						
Dry Basin	2/24	89	33.8	6.7	25.3a						
Dry Creek Flat	2/24	31	11.3	1.1	6.6						
Emigrant Summit	2/24	82	28.2	4.3	21.8a						
Emigration Canyon	2/24	41	13.2	2.7	9.7a						
Franklin Basin	2/24	69	26.7	7.0	22.4a						
Garden City Summit	2/24	51	18.1	3.2	16.1	2/24	2.54	4.00b	20.54a	16.68b	123
Horseshoe Basin	2/24	78	31.9	6.9	23.2						
Klondike Narrows	2/24	61	22.6	5.7	17.9	2/24	2.76	5.25b	23.77	19.03b	125
Liberty Springs	2/24	116	44.4	7.0	33.8a						
Little Bear (lower)	2/23	37	11.8	2.1	10.1						
Little Bear (upper)	2/23	41	12.3	3.1	9.8						
Lower Elkhorn	2/24	54	19.9	1.8	12.4a						
Oxford Mountain	2/24	38	12.6	1.0	9.4						
Slug Creek Divide	3/1	64	21.4	5.0	14.7a						
Steep Hollow #1	2/24	100	38.1	8.5	30.8b						
Steep Hollow #2	2/24	79	30.0	6.4	22.9b						
Strawberry Creek	2/24	38	12.4	2.1	9.6						
Strawberry Mink Divide	2/24	72	25.6	3.4	18.6						
Tony Grove Lake	2/24	110	42.5	8.1	--						
Tony Grove R.S.	2/24	40	13.6	3.0	11.2	2/24	2.33	2.52a	19.63	15.61a	126
Upper Elkhorn	2/24	68	24.4	3.4	16.0a						
Willow Flat	2/24	53	18.7	2.6	13.7	2/24	3.11	4.16b	26.90	19.02b	141
Worm Creek	2/24	62	22.5	3.9	--						
RAFT RIVER											
Clear Creek Meadows	2/28	64	20.9	3.9	18.2a						
George Peak	2/28	68	24.5	--	--						
One Mile Summit	2/28	17	4.5	0.9	6.8a						
Vipont (A)	2/28	46	15.0	4.0	12.7a						
OGDEN RIVER											
Beaver Creek-Skunk Creek	2/23	35	13.9	1.3	10.7						
Ben Lomond Peak	2/23	120	43.7	6.8	30.1b						
Ben Lomond (lower)	2/23	60	22.4	4.1	13.0	2/23	7.37	4.44b	29.35	21.25b	138
Ben Lomond Trail						2/23	7.34	3.91a	--	20.52a	--
Causey Dam						2/23	1.53	2.96a	10.30	12.03a	86
Cutler Creek	2/23	104	35.0	5.1	23.4b						
Dry Bread Pond	2/23	52	19.9	3.3	15.3	2/23	3.25	3.91b	--	17.21b	--
Sagebrush Flat	2/23	12	3.9	1.0	4.4	2/23	1.94	2.71	12.31	12.04	102
WEBER RIVER											
Beaver Creek R.S.	3/3	32	8.1	2.0	7.7						
Chalk Creek #1	2/28	65	20.2	5.7	18.1						
Chalk Creek #2	2/28	43	12.1	4.4	11.9						
Chalk Creek #3	2/28	23	5.8	3.0	6.5	2/28	1.73	1.96a	11.13	9.53a	117
East Shingle Lake (A)	Data Delayed			7.4	--						
Farmington Canyon (lower)	2/23	71	24.8	7.1	18.2	2/23	6.30	4.83	26.40	22.14	119
Farmington Canyon (upper)	2/23	92	30.7	8.8	24.1						
Farmington G.S.						2/23	6.40	--	28.49	--	--

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+ 1958-1972 period.

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
				Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snow Depth (inches)	Water Content (inches)	Last Year	Average +	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
WEBER RIVER (cont'd)											
Horse Ridge	2/23	57	21.1	3.9	19.9b	2/23	3.03	--	21.65	22.61a	96
Killfoil Creek	2/23	43	13.6	3.1	12.6b						
Lost Creek Reservoir	2/23	22	7.7	0.9	--	2/23	1.66	--	9.78	--	--
Park City Summit	2/27	67	23.4	12.2	--						
Parley's Canyon Summit	2/27	58	18.4	6.8	15.5	2/27	5.25	4.08	21.82	18.16	120
Redden Mine (lower)		Not Measured		4.9	15.4						
Redden Mine (upper)		Not Measured						--		16.26a	
Sergeant Lake (A)		Not Measured		4.8	--						
Smith & Morehouse	2/27	37	10.9	2.9	11.9b	2/27	3.12	3.32	15.88	14.94	106
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide	2/22	42	13.0	3.9	--						
Camp Altamont	2/28	58	18.8	3.9	12.8						
Clear Creek Ridge #1		Not Measured		5.0	15.1						
Clear Creek Ridge #2		Not Measured		4.6	11.3			2.78		12.52	
Clear Creek Ridge #3		Not Measured		2.0	6.9						
Dutchman R.S.	2/28	67	21.8	4.3	15.0	2/28	6.60	--	25.10	17.82	141
Hobble Creek Summit	2/28	58	17.0	4.3	11.9	2/28	5.40	--	16.70	13.88	120
Packard Canyon	2/28	43	13.2	3.2	8.6						
Payson R.S.	3/7	66	20.3	--	14.6	3/7	7.55	3.64	20.65	14.63	141
Rock Bridge	3/7	35	11.2	--	10.0						
Soapstone R.S.	3/3	47	12.6	3.5	11.3	3/3	4.27	3.03	16.25	13.22	123
South Fork R.S.	2/27	37	11.3	3.0	4.9						
Timpanogos Cave Camp	2/27	6	2.0	0.4	2.2						
Timpanogos Divide	2/28	77	24.2	5.0	20.9	3/1	7.70	4.37	26.77	21.09	127
Trial Lake	3/3	87	25.8	5.1	20.5	3/3	7.05	4.34	25.32	19.26	131
JORDAN RIVER & GREAT SALT LAKE											
Lamb's Canyon	Discontinued										
Lamb's Canyon #2	2/27	49	16.0	5.9	--	2/27	3.38	--	16.90	--	--
Middle Canyon	2/25	32	10.9	5.5	11.3	2/25	4.20	3.52b	--	13.42b	--
Mill Creek	2/23	56	17.4	7.8	--						
Mill D South Fork	2/28	56	18.4	7.0	16.8						
Mt. Dell Dam						3/1	2.14	2.36	10.81	11.08	98
Rocky Basin-Settlement Canyon	Not measured										
Silver Lake (Brighton)	2/24	74	24.4	5.8	19.6	3/1	5.80	4.94	24.23	22.67	107
Snow Bird (Gad Valley)	3/3	119	33.8	11.4	--						
Vernon Creek	2/25	45	14.5	2.0	--	2/25	7.25	--	18.50	--	--
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	2/24	35	10.2	4.3	10.5	2/24	2.80	--	12.23	11.05	111
Bryce Canyon	2/28	26	8.1	0.3	3.6						
Castle Valley	2/23	40	11.2	2.7	11.1	2/23	4.90	--	12.00	11.86	101
Duck Creek R.S.	2/23	56	16.8	0.3	11.1	2/23	7.10	3.18b	17.60	14.23b	124
Farview	2/27	31	5.6	1.2	--						
Harris Flat	2/23	43	12.9	0.1	7.3						
Kimberly Mine	2/24	46	13.1	5.4	11.9	2/24	3.25	2.90b	15.45	13.24b	117
Midway Valley	2/23	63	19.8	3.1	17.3	2/23	8.15	--	18.90	--	--
Panguitch Lake	2/23	24	7.3	0.5	3.8	2/23	2.30	--	7.30	5.95b	123
Rainbow Point	2/27	37	7.0	1.2	--						
Squaw Springs	2/24	28	7.7	1.6	6.1						
Widtsoe R.S. 3NNE						3/1	1.05	--	--	--	--
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	3/6	59	16.7	--	9.5	3/6	7.65	--	18.27	10.52	174
Farnsworth Lake	2/24	55	17.6	7.2	14.2	2/24	4.05	3.93	15.25	14.76	103
G.B.R.C. Headquarters	3/7	67	19.7	5.5	13.3	3/7	6.80	3.90	20.85	14.30	146
G.B.R.C. Majors						3/1	2.30	2.10	9.87	8.00	123
G.B.R.C. Meadows	3/7	87	28.7	8.5	19.2	3/7	9.40	4.90	26.25	18.00	146
G.B.R.C. Oaks						3/1	2.95	2.60	12.10	9.60	126
Gooseberry R.S.	2/24	40	11.1	5.9	9.3	2/24	2.50	3.12b	12.35	10.06	123
Mammoth-Cottonwood Creek	3/2	70	22.8	5.7	17.1b	3/2	5.50	3.76b	23.63	15.35b	154
Middle Fork	Not Measured			--	--						
Mt. Baldy R.S.	3/6	99	29.8	--	17.8	3/6	9.20	--	22.50	13.86b	162
Oak Creek	Not Measured			5.0	--			--		--	
Pickle Keg Springs	Not Measured			--	--						
Pine Creek	2/23	60	19.1	8.0	12.2	2/23	5.35	--	24.40	17.64	138
Ree's Flat	Not Measured			--	9.6						

+ 1958-1972 period.

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DRAINAGE BASIN and/or SNOW COURSE				Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
NAME	Date of Survey	Snow Depth (inches)	Water Content (inches)	Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
LOWER SEVIER RIVER (cont'd)											
Shingle Mill		Not Measured		3.4	7.1			2.59b		10.73b	
Thistle Flat		Not Measured		--	--						
BEAVER RIVER											
Beaver Race Track	2/28	2	0.5	0.0	--						
Beaver Canyon Power House						3/1	2.82	1.92	9.91	7.08	140
Big Flat	2/23	56	17.4	4.7	13.2	2/23	4.15	3.43	17.28	12.90	134
Merchant's Valley (upper)	2/24	45	13.4	3.8	--	2/24	3.63	2.83a	15.78	10.82a	146
Otter Lake	2/23	49	14.3	3.8	10.9						
PAROWAN CREEK											
Birch Crossing	2/27	26	7.5	0.5	--						
Brian Head	2/23	58	19.0	4.5	17.2a						
Ed Ward Flat	2/23	31	8.7	1.9	6.1						
Tall Poles	2/27	42	12.7	3.6	--	2/27	4.15	2.49a	12.60	14.71a	86
Yankee Reservoir	2/23	33	9.0	2.7	7.5	2/23	3.70	--	11.20	9.13b	123
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	2/23	20	6.8	0.0	3.1b	2/23	7.40	--	16.45	11.25b	146
Long Flat	2/23	28	8.0	0.1	4.9	2/23	2.80	--	9.60	8.61b	111
COAL CREEK											
Cedar City Golf Course	2/23	0	0.0	0.0	--						
SUSC Ranch	2/27	34	11.2	0.2	5.5a						
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Ashley-Twin Lakes (A)		Data Delayed		2.7	--						
Black's Fork G.S.-East Fork	2/28	34	8.5	3.3	7.5b	2/28	2.00	--	10.93	9.43b	116
Black's Fork Junction	2/28	33	8.5	2.4	8.2b	2/28	1.86	--	10.35a	9.25b	112
Buck Pasture (A)		Data Delayed		6.5							
Burnt Creek	2/27	17	4.5	1.4	--	2/27	1.30	1.06b	5.25	7.53b	70
Grizzly Ridge	2/27	31	9.2	2.0	--	2/27	3.65	1.93b	9.10	11.24b	81
Henry's Fork (A)		Data Delayed		3.8	--						
Hewinta G.S.	2/28	31	7.3	2.4	7.4b	2/28	1.94	--	11.59	9.95b	117
Hickerson Park	2/28	22	4.6	1.7	5.1b	2/28	1.20	--	5.30	6.65a	80
Highline Trail	2/28	34	7.8	2.6	--	2/28	--	--	10.48	--	--
King's Cabin (lower)	2/28	30	7.7	0.7	6.9						
King's Cabin (upper)	2/28	35	8.4	1.1	8.3	2/28	3.60	--	8.95	9.10	99
Reynolds Park (A)		Data Delayed		2.2	--						
Spirit Lake	2/28	35	8.4	3.4	10.0b	2/28	3.12	--	9.37	11.51b	82
Steel Creek Park	2/28	50	14.1	--	12.2b						
Trout Creek	2/28	36	8.2	1.7	--	2/28	3.10	--	7.82	--	--
Windy Park (A)		Data Delayed		0.3	--						
Dutch John Junction	2/27	15	4.5	--	--						
DUCHESNE RIVER											
Atwood Lake (A)		Data Delayed		1.4	--						
Brown Duck Ridge		Not Measured		4.1	--						
Chepeta-Whiterocks (A)		Data Delayed									
Currant Creek	2/28	41	11.8	1.5	--	2/28	3.40	--	13.03	--	--
Daniels-Strawberry Summit	2/28	50	15.7	3.7	12.2	2/28	4.70	3.39	20.13	14.60	138
East Portal	2/28	46	14.0	3.0	9.6	2/28	3.74	3.20b	18.23	15.68b	117
Five Points Lake (A)		Data Delayed		3.6	--						
Indian Canyon	2/28	44	12.0	2.8	10.3	2/28	3.53	2.18b	12.96	11.25b	116
Jackson Park		Not Measured		2.6	--			--		--	
Lake Basin		Not Measured		4.5	--						
Lakefork Basin (A)		Data Delayed		4.5	--						
Lakefork Mountain	3/6	51	10.7	1.6	9.5	3/6	4.57	2.13	13.60	10.22	133
Lakefork Mountain #2	Not measured			--	6.8						
Lakefork Mountain #3	3/6	39	7.9	0.6	5.6						
Lightning Lake (A)		Data Delayed		4.1	--						
Mosby Mountain	3/2	40	9.2	1.4	8.4	3/2	4.10	1.98a	11.23	9.16a	123
Paradise Park	3/2	47	11.9	1.1	10.5	3/2	4.72	2.23b	11.87	12.95b	92
Rock Creek Ranch	3/6	38	9.2	1.2	--	3/6	4.38	--	12.28	--	--
Shadow Lake (A)		Not Measured									
Strawberry Divide	2/28	62	20.0	5.5	16.2						

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† 1958-1972 period

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NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
PRICE RIVER											
Dry Valley Divide	2/28	41	13.0	2.7	9.6						
Gooseberry Reservoir	3/2	64	21.6	4.3	15.2	3/2	5.90	3.94	23.39	15.00	156
Jones Ranch	2/28	25	6.2	1.4	5.8						
Mud Creek	2/28	53	14.8	2.5	11.4	2/28	3.30	2.74b	15.55	11.60b	134
White River #1	2/28	43	13.0	3.4	11.3	2/28	2.55	--	13.70	11.08	124
White River #2	2/28	34	9.6	2.0	7.9						
White River #3	2/28	34	10.6	2.1	7.3						
SAN RAFAEL RIVER											
Buck Flat	3/6	77	22.7	5.6	13.5	3/6	8.10	3.97	22.65	14.29	158
Huntington-Horseshoe	3/2	76	26.7	8.6	--						
Orange Olsen	3/2	29	8.0	1.0	--	3/2	3.50	1.65a	9.05	7.93a	114
Red Pine Ridge	3/2	62	18.4	5.3	14.9	3/2	6.15	4.42	22.28	16.82	132
Rush Pond	3/6	71	19.6	4.5	11.7						
Seeley Creek R.S.	3/7	65	21.2	3.4	13.7						
Stuart R.S.	Not Measured			1.4	--						
Upper Joe's Valley	3/2	49	12.8	2.8	9.1						
Wrigley Creek	3/3	51	14.0	4.4	9.3						
MUDDY RIVER											
Black's Fork	3/4	61	17.9	5.5	--						
Dill's Camp	3/4	58	18.8	4.2	--	3/4	5.90	--	18.73	--	--
FREMONT RIVER											
Black's Flat-U.M. Creek	2/24	41	12.2	4.7	8.6	2/24	3.05	--	13.42	9.34	144
Fish Lake	2/24	30	9.6	1.1	5.6	2/24	2.40	1.71	10.50	7.47	141
Johnson Valley	2/24	32	9.7	2.2	4.8b						
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	2/27	36	10.2	1.2	10.0	2/27	4.31	--	11.62	15.00	78
Camp Jackson	2/27	44	14.0	2.0	9.5	2/27	5.08	--	15.90	13.40b	119
LaSal Mountain (lower)	2/28	40	11.6	0.8	7.0						
LaSal Mountain (upper)	2/28	58	16.7	2.7	11.7b	2/28	4.45	--	16.27	12.26b	133
Monticello City Park	2/28	8	2.7	0.0	--						
ESCALANTE RIVER											
Widtsoe-Escalante Summit	2/27	32	8.7	0.6	5.7						
Widtsoe-Escalante #2	2/27	33	8.6	0.8	7.3						
Widtsoe-Escalante #3	2/27	42	11.6	1.6	8.9b	2/27	4.71	2.53	12.05	10.37	117
VIRGIN RIVER											
Kolob-Crystal	2/23	69	22.8	3.0	--						
Long Valley Junction	2/23	33	10.8	0.0	3.9						
Webster Flat	2/23	63	21.0	2.8	13.8	2/23	9.40	3.92	21.40	15.67	137

a - Partly Estimated
b - Average of all past record - less than 15 years
+ - 1958-72 15 year average period
(A) - Aerial Marker Reading

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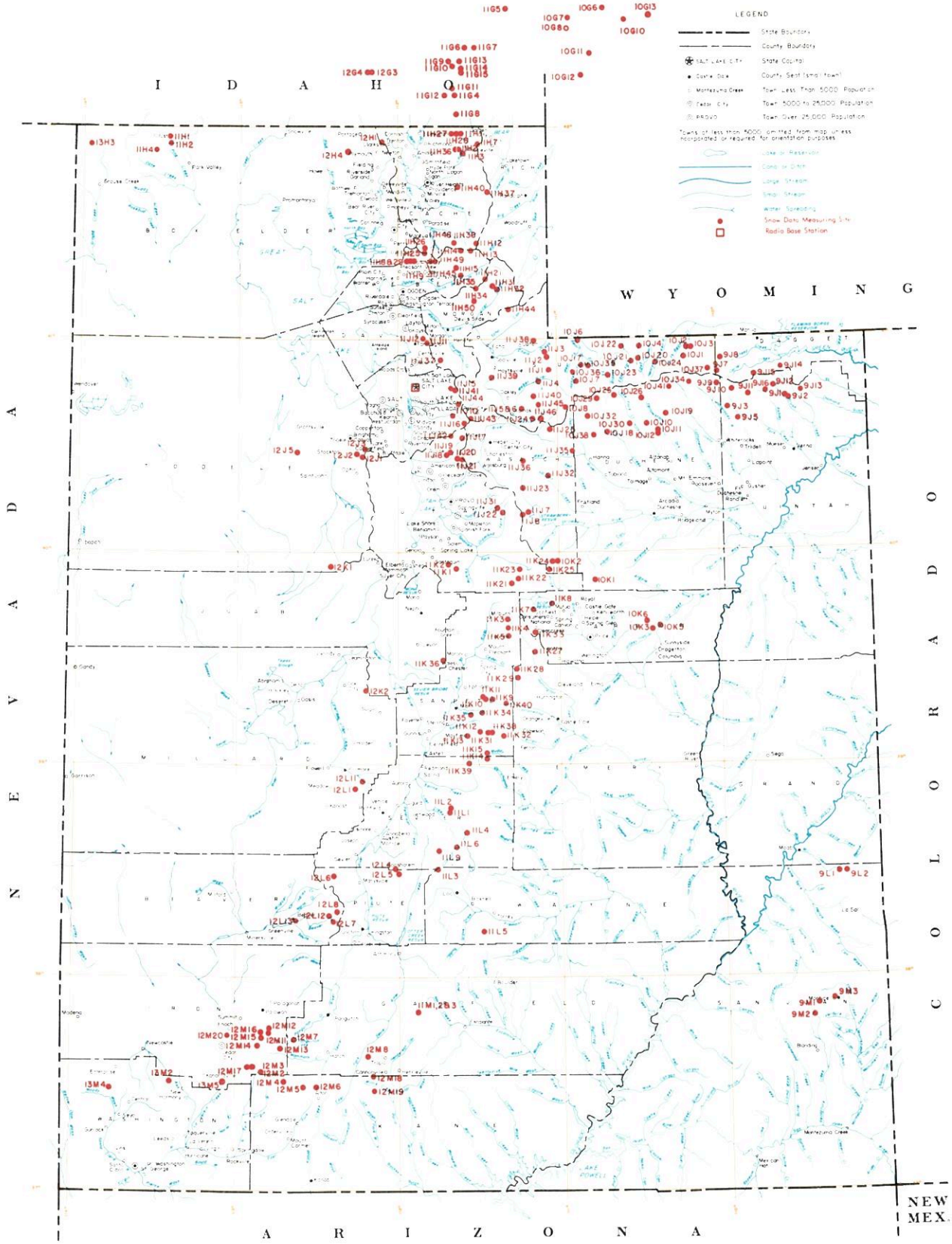
+ 1958-1972 period



SNOW COURSES AND RELATED DATA MEASURING SITES

UTAH

1978

SCALE 1:1,000,000

ALBERS EQUAL AREA PROJECTION

USGS National Atlas 1:1,000,000 Albers Equal-Area projection (1957) used as source for base map and adapted for SCS use.

INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

No.	State	Name	Sec.	Tsp.	Rge.	Elev.
		UPPER BEAR RIVER (above Harer, Idaho)				
10G11	W	Big Park	7	27N	117W	8,700
10J6P	U	Burts-Miller Ranch	19	3N	10E	7,900
10G7	W	CCC Camp x	9	29N	118W	7,500
10J36p	U	Gold Hill	11	1N	9E	10,000
10J7PST	U	Hayden Fork	25	1N	9E	9,400
10G12	W	Kelly Ranger Station	13	26N	118W	8,200
10G17S	W	LaBarge Guard Station x	7	30N	116W	9,000
10J35p	U	Lily Lake	34	2N	10E	9,300
11H12PST	U	Monte Cristo R.S.	4	8N	4E	8,960
10G10	W	Piney LaBarge x	19	29N	114W	8,820
10G6	W	Poison Meadows x	29	30N	116W	8,500
10G8P	W	Salt River Summit x	32	29N	118W	7,900
10G13MP	W	Snyder Basin x	15	29N	115W	8,400
10J17P	U	Stillwater Camp	32	2N	10E	8,550
		LOWER BEAR RIVER (below Harer, Idaho)				
11H37pST	U	Bug Lake	18	11N	5E	7,950
11H36p	U	Bunchgrass	5	13N	3E	8,400
11G11	I	Christensen Ranch	27	13S	41E	5,600
11H38p	U	Cinnamon Creek	5	8N	3E	7,300
12H1p	U	Clarkston Mountain	29	14N	2W	6,300
11G12	I	Cub River Ranger Station	5	15S	41E	5,400
11G14a	I	Dry Basin	30	13S	42E	7,900
12G4	I	Dry Creek Flat	31	13S	37E	6,350
11G6	I	Emigrant Summit	21	12S	42E	7,350
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6,500
11G8MPST	I	Franklin Basin	1	16S	41E	8,000
11H7MP	U	Garden City Summit	34 & 35	14N	4E	7,600
13H4PST	U	George Peak	4	13N	4W	9,000
11H40p	U	Herd Hollow	4	11N	3E	7,000
11G15a	I	Horseshoe Basin	31	13S	42E	8,000
11H1MP	U	Klondike Narrows	10	14N	3E	7,400
11G13	I	Liberty Springs	7	13S	42E	8,240
11H26	U	Little Bear (lower)	15	8N	1E	6,000
11H25PST	U	Little Bear (upper)	22	8N	1E	6,550
12G3	I	Oxford Mountain	32	13S	37E	6,800
11G5	I	Slug Creek Divide	15	10S	44E	7,225
11H27	U	Steep Hollow #1	7	14N	3E	8,500
11H28	U	Steep Hollow #2	9	14N	3E	7,700
11G9	I	Strawberry Creek	9	13S	41E	5,800
11G10	I	Strawberry Mink Divide	14	13S	41E	6,800
11H2PST	U	Tony Grove Lake	5	13N	3E	7,400
11H3MP	U	Tony Grove Ranger Station	11	13N	3E	6,250
11G4P	I	Willow Flat	2	15S	41E	6,100
		OGDEN RIVER				
11H14M	U	Beaver Creek-Skunk Creek	22	8N	3E	7,150
11H8PST	U	Ben Lomond Peak	3	7N	1W	8,000
11H9PST	U	Ben Lomond (lower)	1	7N	1W	6,000
11H35p	U	Causey Dam	34	7N	3E	5,500
11H29	U	Cutler Creek	3	7N	1W	6,780
11H13MPST	U	Dry Bread Pond	19	8N	4E	8,230
11H34p	U	Gulder's Peak	21	6N	4E	8,050
11H45p	U	Middle Fork Ogden	16	7N	2E	8,420
11H49	U	Powder Mountain Hideaway	6	7N	2E	8,250
11H48	U	Powder Mountain Sundown	1	7N	1E	8,400
11H15P	U	Sagebrush Flat	21	7N	3E	6,300
		WEBER RIVER				
11J24	U	Beaver Creek R.S.	28	2S	7E	7,500
11J1PST	U	Chalk Creek #1	4	1N	8E	9,100
11J2MPST	U	Chalk Creek #2	29	2N	8E	8,200
11J3MP	U	Chalk Creek #3	7	2N	8E	7,500
11J12P	U	Farmington Canyon (lower)	14	3N	1E	6,950
11J11PST	U	Farmington Canyon (upper)	26	3N	1E	8,000
11H44p	U	Francis Canyon	29	5N	6E	7,400
11J45a	U	East Shingle Lake	6	3N	10W	9,800
11J37p	U	Hardscrabble	16	2N	2E	6,500
11H21PST	U	Horse Ridge	1	6N	4E	8,260
11H31P	U	Kilfoil Creek	20	6N	5E	7,300
11H32P	U	Lost Creek	27	6N	5E	6,125
11J43	U	Park City Summit	20	2S	4E	9,300
11J15PST	U	Parley's Canyon Summit	5	1S	3E	7,500
11H50	U	Pine Canyon	6	5N	4E	8,000
11J38p	U	Porcupine	22	3N	7E	8,100
11J6	U	Redden Mine (lower)	1	2S	6E	8,500
11J5P	U	Redden Mine (upper)	1	2S	6E	9,000
11J39p	U	Sergeant Lakes	17	1N	5E	8,400
11J40p	U	Shingle Mill Flat	15	1S	7E	9,900
11J4PST	U	Smith & Morehouse	25	1N	7E	7,600
		PROVO RIVER & UTAH LAKE				
11J46PST	U	Beaver Creek Divide	25	2S	7E	8,000
11J20	U	Camp Altamont	29	4S	3E	7,300
11K21PST	U	Clear Creek Ridge #1	18	11S	6E	9,200
11K22PST	U	Clear Creek Ridge #2	9	11S	6E	8,000
11K23	U	Clear Creek Ridge #3	27	10S	6E	6,600
11J17P	U	Dutchman R.S.	27	3S	3E	7,560
11J22P	U	Hobble Creek Summit	27	7S	5E	7,420
11J36P	U	Lake Creek	36	4S	6E	9,100
11J31	U	Packard Canyon	21	7S	5E	6,400
11K1P	U	Payson R.S.	30	10S	3E	8,050
11K2	U	Rock Bridge	14	10S	2E	6,750
11J25P	U	Soapstone R.S.	9	3S	8E	7,800
11J19	U	South Fork R.S.	24	4S	2E	6,100
11J18P	U	Timpanogos Cave Camp	27	4S	2E	5,500
11J21PST	U	Timpanogos Divide	33	4S	3E	8,140
10J8PST	U	Trial Lake	5	2S	9E	9,800
		JORDAN RIVER & GREAT SALT LAKE				
	U	Bevan's Cabin	24	4S	4W	6,450
	U	Deseret Peak	15	4S	7W	9,250
11J41P	U	Lamb's Canyon #2	21	1S	3E	7,400
12J3P	U	Middle Canyon	8	4S	3W	7,000
11J44	U	Mill Creek	32	1S	3E	6,500
11J10	U	Mill D South Fork	18	2S	3E	7,900
12J1P	U	Rocky Basin-Settlement Canyon	30	4S	3W	8,900
11J16P	U	Silver Lake (Brighton)	35	2S	3E	8,725
11J42	U	Snow Bird (Gad Valley)	18	3S	3E	10,300
12K1PST	U	Vernon Creek	21	10S	5W	7,500
		UPPER SEVIER RIVER (South of Richfield, Utah)				
12L4PST	U	Box Creek	33	26S	2W	9,800
12M8	U	Bryce Canyon	36	36S	4W	8,000
12M13PST	U	Castle Valley	23	36S	8W	9,700
12M4P	U	Duck Creek R.S.	11	38S	8W	8,700
12M18	U	Farview	32	37S	4W	8,200
12M5PST	U	Harris Flat	24	38S	7W	7,700
11L9p	U	High-Top Mountain	36	25S	1E	11,400
12L6P	U	Kimberly Mine	11	27S	5W	9,300
12M2MPST	U	Midway Valley	26	37S	9W	9,800
12M7P	U	Panguitch Lake	4 & 5	36S	7W	8,200
12M19	U	Rainbow Point	29	38S	4W	9,100
12L5	U	Sagaw Springs	3	27S	2W	9,300
11M4p	U	Widtsoe R.S.	22	34S	2W	7,600
		LOWER SEVIER RIVER (Including San Pitch River)				
11K13P	U	Beaver Dam	27	19S	3E	8,000
11L1PST	U	Farnsworth Lake	27 & 33	23S	2E	9,900
11K11P	U	G.B.R.C. Headquarters	21	17S	4E	8,700
11K10P	U	G.B.R.C. Meadows	26 & 27	17S	4E	10,000
11L2PST	U	Gooseberry R.S.	22	23S	2E	8,400
11K3MPST	U	Mammoth R.S.-Cottonwood Creek	13	13S	5E	8,800
11K34	U	Middle Fork	16	18S	4E	9,600
11K12P	U	Mt. Baldy R.S.	19	19S	4E	9,500
12K2P	U	Oak Creek	9	17S	3W	7,760
11K39PST	U	Pickle Keg Springs	4	21S	3E	9,600
12L1PS	U	Pine Creek	24	22S	4W	8,700
11K36	U	Rees's Flat	20	15S	2E	7,300
12L11P	U	Shingle Mill	5	22S	3W	6,200
11K35	U	Thistle Flat	23	18S	3E	8,500
		BEAVER RIVER				
12L13	U	Beaver Race Track	23	29S	7W	6,020
12L7PST	U	Big Flat	18	29S	4W	10,290
12L9PST	U	Merchant's Valley (upper)	8 & 9	29S	5W	8,200
12L8	U	Otter Lake	1	29S	5W	9,300
		PAROWAN CREEK				
12M16	U	Birch Crossing	23	35S	9W	8,100
12M14	U	Brian Head	10	36S	9W	10,000
12M12	U	Ed Ward Flat	17	35S	9W	8,300
12M15P	U	Tall Poles	26 & 35	35S	9W	8,800
12M11P	U	Yankee Reservoir	20	35S	8W	8,700
		ENTERPRISE TO NEW HARMONY DRAINAGES				
13M4MP	U	Little Grassy Creek	15	38S	17W	6,100
13M2MPST	U	Long Flat	2	38S	14W	8,000
		COAL CREEK				
12M20	U	Cedar City Golf Course	11	36S	11W	5,800
12M17	U	SUSC Ranch	18	37S	9W	8,200

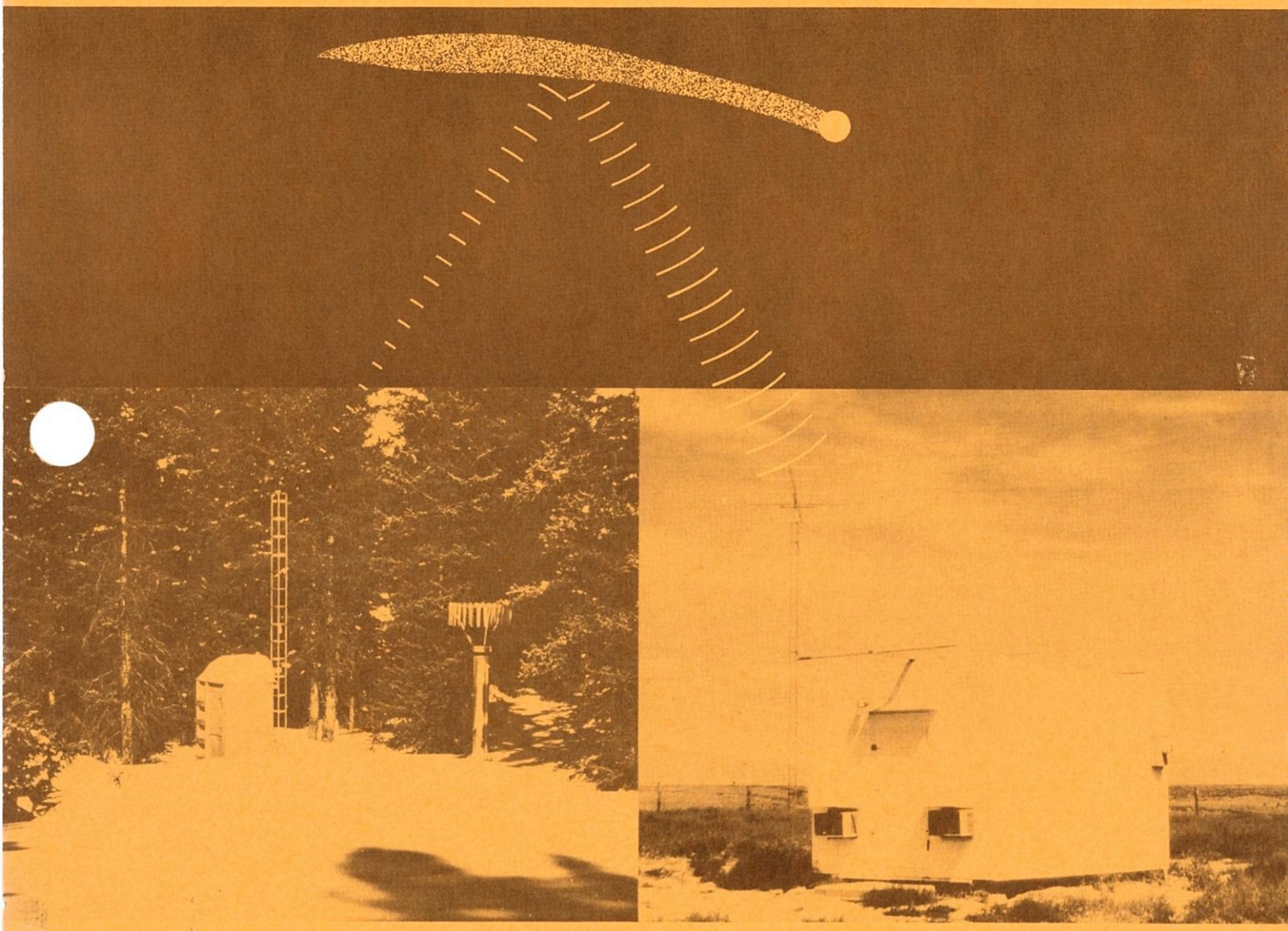
COLORADO RIVER DRAINAGE

No.	State	Name	Sec.	Tsp.	Rge.	Elev.
		UPPER GREEN RIVER IN UTAH (above Duchesne River)				
9J11aP	U	Ashley Twin Lakes	20	1S	19E	10,500
10J21P	U	Black's Fork G.S.-East Fork	25	2N	12E	9,300
10J22P	U	Black's Fork Junction	33	3N	12E	8,925
10J23a	U	Buck Pasture	14	1N	11E	9,700
9J14P	U	Burnt Creek	4	1N	20E	7,900
9J13P	U	Grizzly Ridge	8	1S	22E	8,500
10J24ap	U	Henry's Fork	29	2N	14E	10,000
10J4P	U	Hewinta G.S.	33	3N	13E	9,500
9J8P	U	Hickerson Park	24	2N	17E	9,100
9J15p	U	Highline Trail	23	1N	19E	10,250
10J1	U	Hole-in-the-Rock	13	2N	15E	9,150
10J3	U	Hole-in-the-Rock G.S.	32	3N	16E	8,300
9J2	U	King's Cabin (lower)	23 & 26	1S	21E	8,600
9J1PST	U	King's Cabin (upper)	22	1S	21E	8,730
10J37p	U	McCoy Park	6	1N	17E	10,680
10J2	U	Middle Beaver Creek	31	3N	16E	8,550
9J10aP	U	Reynolds Park	9	1S	18E	10,400
9J7P	U	Spirit Lake	10	1N	17E	10,300
10J20PST	U	Steel Creek Park	17	2N	13E	9,900
9J16PST	U	Trout Creek	9	1S	20E	9,200
9J12ap	U	Windy Park	1	1S	20E	9,400
		DUCHESNE RIVER				
10J41ap	U	Atwood Lake	13	4N	4W	10,500
10J30PST	U	Brown Duck Ridge	8	2N	6W	10,800
9J9ap	U	Chepeta-Whiterocks Lakes	3	1S	17E	10,300
11J32MPST	U	Currant Creek	31	1S	10W	7,800
11J23MPST	U	Daniels-Strawberry Summit	20	2S	12W	8,000
11J7P	U	East Portal	36	2S	6E	7,560
10J26ap	U	Five Point Lake	28	4N	5W	11,000
10K1PST	U	Indian Canyon	2	11S	10E	9,100
10J19P	U	Jackson Park	23	3N	4W	11,300
10J34p	U	Kidney Lake	28	5N	3W	11,000
10J39P	U	Lake Basin	23	3S	8W	10,800
10J20ap	U	Lakefork Basin	13	4N	7W	11,100
10J10PST	U	Lakefork Mountain	2 & 3	2N	5W	10,200
10J11	U	Lakefork Mountain #2	17	2N	4W	8,900
10J12	U	Lakefork Mountain #3	29	2N	4W	8,100
10J29ap	U	Lightning Lake	24	4N	8W	10,950
9J5PST	U	Mosby Mountain	27	2S	18E	9,500
9J3P	U	Paradise Park	7	3N	1E	10,100
10J18P	U	Rock Creek	21	2N	7W	7,900
10J32p	U	Shadow Lake	28	3N	8W	10,150
11J8PST	U	Strawberry Divide	34 & 35	2S	6E	8,000
11J35P	U	West Fork of the Duchesne	22	1N	19E	10,250
		PRICE RIVER				
10K5M	U	Corral	32	13S	14E	8,200
11K8	U	Dry Valley Divide	20	12S	8E	7,800
10K3M	U	Grassy Trail Creek-Left Fork	2	14S	13E	7,970
11K7	U	Jones Ranch	32	12S	7E	7,600
11K33MP	U	Mud Creek	4	14S	7E	8,300
10K6	U	Timberline	28	13S	13E	9,100
10K2MPST	U	White River #1	11	10S	8E	8,550
11K24	U	White River #2	9	10S	8E	7,600
11K25	U	White River #3	30	10S	8E	7,400
		SAN RAFAEL RIVER				
11K31PST	U	Buck Flat	23	19S	4E	9,400
11K4P	U	Gooseberry Reservoir	25	13S	5E	8,700
11K5	U	Huntington-Horseshoe	12	14S	5E	9,800
11K40P	U	Orange Olsen	31	17S	6E	7,300
11K28PST	U	Red Pine Ridge	5	16S	6E	9,400
11K38	U	Rush Pond	24	19S	4E	9,800
11K9PST	U	Seeley Creek	25	17S	4E	10,000
11K27P	U	Stuart R.S.	8 & 9	15S	7E	7,950
11K29	U	Upper Joe's Valley	21	16S	6E	8,900
11K32	U	Wrigley Creek	27	19S	5E	9,000
		MUDDY RIVER				
11K14	U	Black's Fork	34	20S	4E	9,200
11K15PST	U	Dill's Camp	27	20S	4E	9,200
		FREMONT RIVER				
11L4P	U	Black's Flat-U.M. Creek	33	24S	3E	9,250
11L5	U	Donkey Reservoir	9	30S	4E	9,800
11L3P	U	Fish Lake	35	26S	1E	8,700
11L6	U	Johnson Valley	24	25S	2E	8,850
		SOUTHEASTERN UTAH DRAINAGES				
9M1P	U	Buckboard Flat	36	33S	22E	9,000
9M2P	U	Camp Jackson	22	34S	22E	8,600
9L1	U	LaSal Mountain	5	27S	24E	8,800
9L2P	U	LaSal Mountain (upper)	3	27S	24E	9,400
9M3	U	Monticello Park	25	33S	23E	7,050
		ESCALANTE RIVER				
11M1	U	Widtsoe-Escalante Summit	22	34S	1W	9,500
11M2PST	U	Widtsoe-Escalante #2	22	34S	1W	9,500
11M3PST	U	Widtsoe-Escalante #3	22	34S	1W	9,500
		VIRGIN RIVER				
13M5PST	U	Kolob-Crystal	2	38S	11W	9,250
12M6	U	Long Valley Junction	22	38S	6W	7,500
12M3MPST	U	Webster Flat	20	37S	9W	9,200
		RAFT RIVER				
13H2a	U	Clear Creek Meadows	26	14N	14W	9,050
13H4P	U	George Peak	4	13N	4W	9,000
13H1	U	One Mile Summit	19	14N	14W	7,330
13H3a	U	ViPont	17	14N	17W	7,670

LEGEND
Numbering System (example)

10J7	Snow Course Only
10J7P	Snow Course and Precipitation Gage
10J7H	Snow Course and Soil Moisture Station
10J7A	Snow Course and Aerial Marker
10J7MA	Snow Course, Soil Moisture Station and Aerial Marker
10J7HP	Snow Course, Soil Moisture Station and Precipitation Gage
10J7a	Aerial Marker Only
10J7p	Storage Precipitation Gage Only
10J7PS	Snow Course, Precipitation Gage, Snow Pillow and Temperature
10J7PST	Special Data Site

WATER SUPPLY OUTLOOK FOR UTAH



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

UTAH STATE DEPARTMENT OF NATURAL RESOURCES
-- DIVISION OF WATER RIGHTS

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
APR. 1, 1978

WATER SUPPLY OUTLOOK FOR UTAH

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
4012 FEDERAL BUILDING
SALT LAKE CITY, UTAH 84138

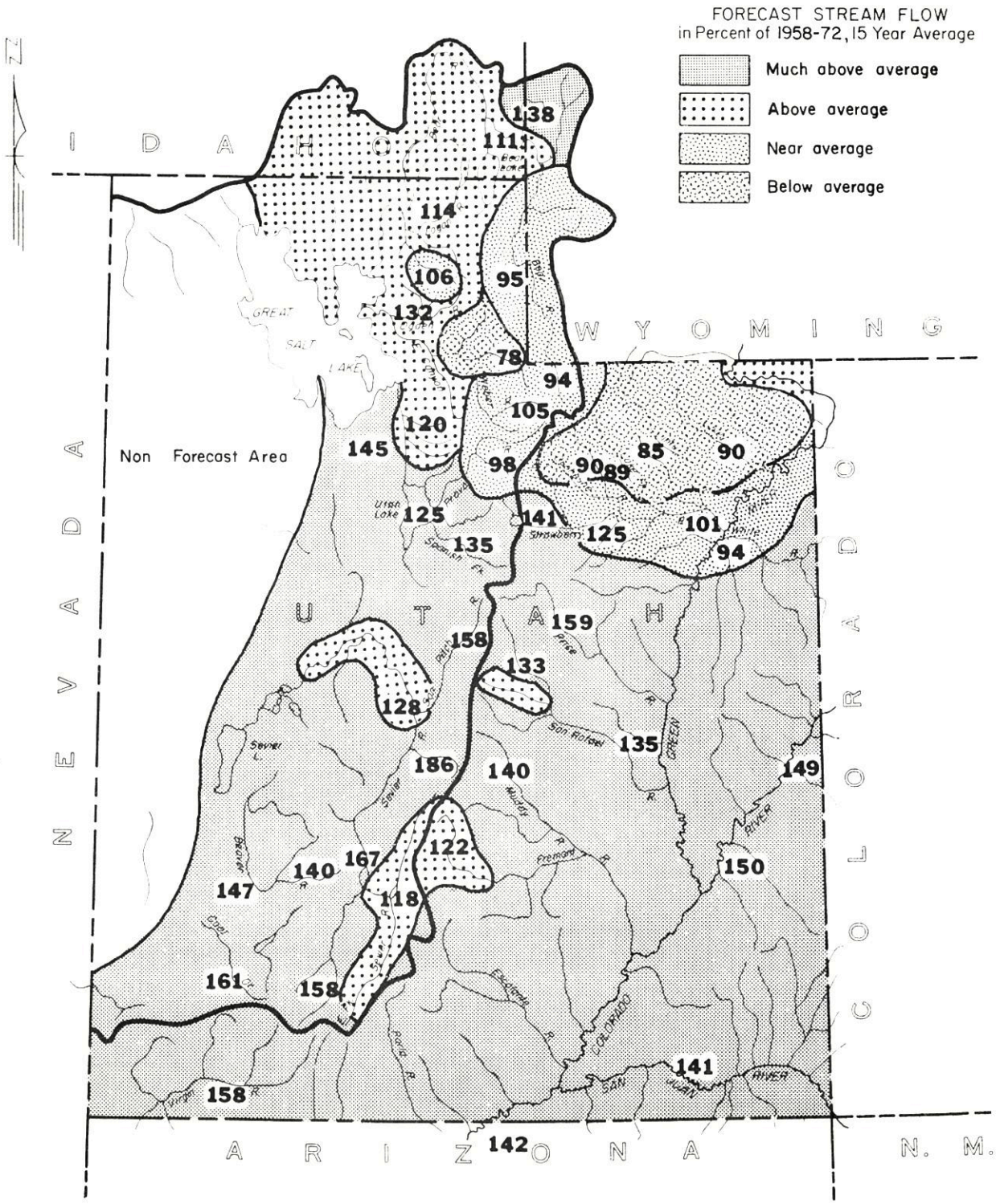
USDA-SCS-PORTLAND, OR. 1977, M7-L-220278

PROSPECTIVE WATER SUPPLIES

Based on Snow Surveys Made on UTAH and BEAR RIVER WATERSHEDS

April 1, 1978

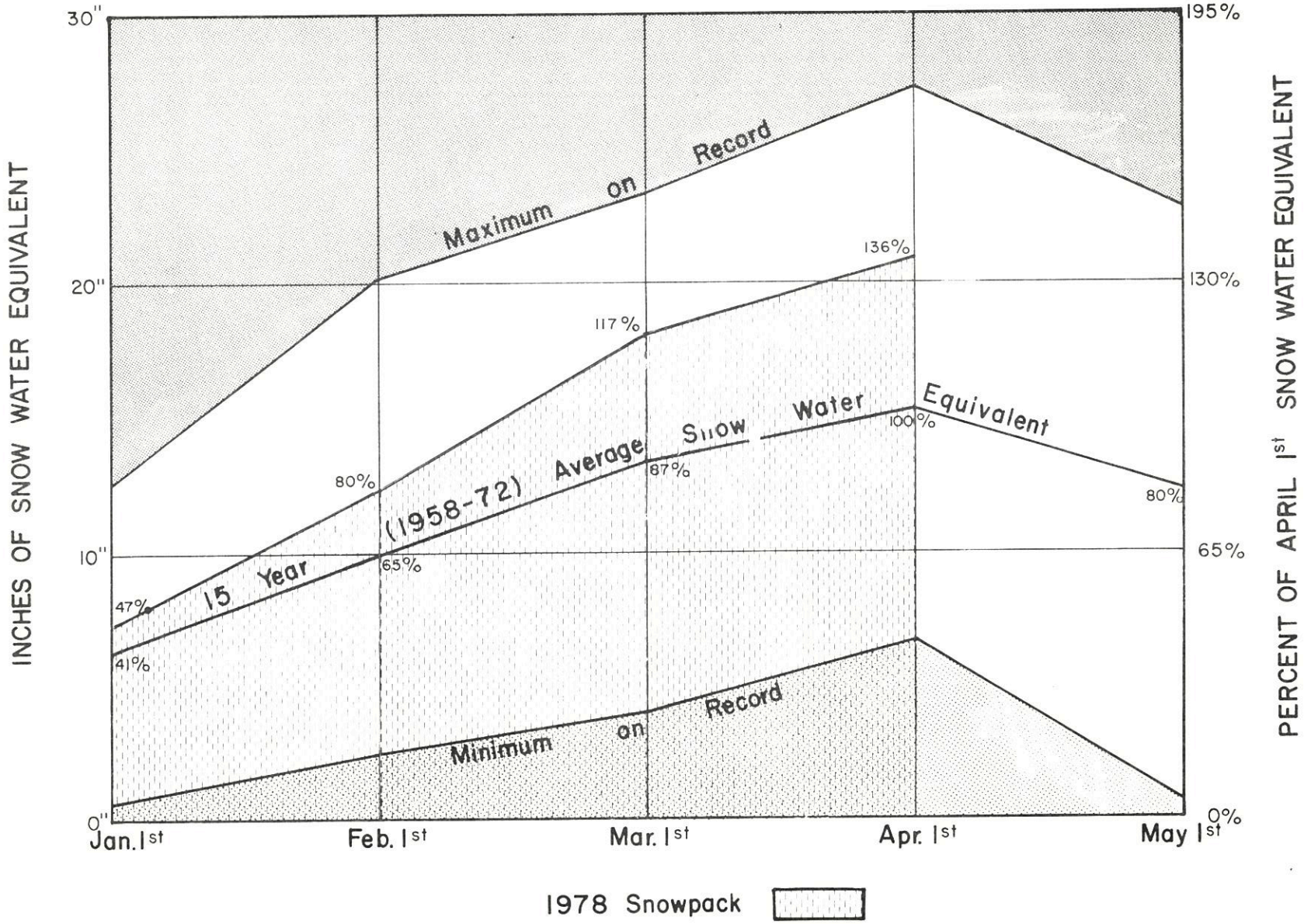
Approximate Date



7-0-16150-L

UTAH'S WINTER SNOWPACK

Data based on 51 selected snow courses



WATER SUPPLY OUTLOOK

as of
APRIL 1, 1978

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* * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* Utah's 1978 water supply outlook ranges from below average*
* in Uintah Basin to an average supply for most of the rest *
* of the state.  Snow cover ranges from near average on the *
* Uintah's, to about twice average on Coal Creek and the    *
* Virgin River.  Reservoir storage is 96% of the April 1    *
* average, but still 15% less than last year at this time.  *
* Streamflow forecasts range form 78 to 223% of average.    *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
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SNOW COVER

Early March storms increased snow water content as much as six to eight times the normal amounts resulting in high improvements to the snowpack in southern Utah. Basin snow cover now ranges from 105% of the April 1 average for the Upper Green to 205% on the higher areas of the Virgin River.

The southern half of the state has the best snow cover. The Upper Sevier is 161% of average, Coal Creek 184%, Beaver River 190%, Fremont River 164%, Muddy River 168%, San RaFael 148%, Price River 150%, and Lower Sevier 145% of the April 1 average for the 1958-72 period.

Watersheds in northern Utah range from 143% on the Ogden to 105% on the Upper Green. Blacks Fork is 107%, Upper Bear 121%, Utah Lake 137%, Provo River 113%, Weber River 111%, Logan River 112%, Raft River 108%, and Salt Lake front watersheds 124%.

PRECIPITATION

March precipitation at mountain stations varied from about 57% of average at Lakefork Mountain on the south slope of the Uinta's to 803% at Little Grassy in the southwest corner of the state. Other areas of heavy precipitation were Big Flat and Merchant Valley on the head of the Beaver River, Pine Creek above Fillmore, Webster Flat on Coal Creek and Vernon Creek above Vernon. Most other areas had average to above average except the head of the Provo River, Chalk Creek, Bear Rivers and Spanish Fork River.

SOIL MOISTURE

Most valley locations are now well primed while mountain areas under the snowpack are improved, but still below average.

RESERVOIR STORAGE

Storage in 24 of Utah's key irrigation reservoirs is now 96% of the April 1 average and 15% less than last year at this time.

Reservoirs which are still in some doubt of filling are: Minersville, Piute, Sevier Bridge, Steinaker, Moon Lake, Bear Lake, and possibly Scofield, Otter Creek, East Canyon, Lost Creek and Deer Creek Reservoirs.

WATER SUPPLY OUTLOOK (continued)

STREAMFLOW FORECASTS

Streamflow forecasts improved as much as 116% in southern Utah after very heavy increases to the snowpack and decreased as much as 20% on some northern Utah streams due to below average increases to the snowpack in that area. Forecasts now range from 78% of average on Chalk Creek near Coalville to 223% for the Sevier near Circleville. Bear River is now forecast 94% at Utah-Wyoming State Line, 95% at Woodruff and 111% at Harer. Logan River is forecast 114%, Blacksmith Fork 115%, and Little Bear 106% of average. Pineview Inflow is forecast 132%, Lost Creek 82%, and Chalk Creek 78%. Weber River is forecast 105% at Oakley, 108% at Rockport, and 106% at Coalville. Provo River is forecast 98% at Hailstone and 94% at Deer Creek Dam. Utah Lake Inflow is forecast 125% and Strawberry Inflow 141% of the April-July average.

Uintah Basin streams are forecast from 91% on Rock Creek to 85% on Uinta River.

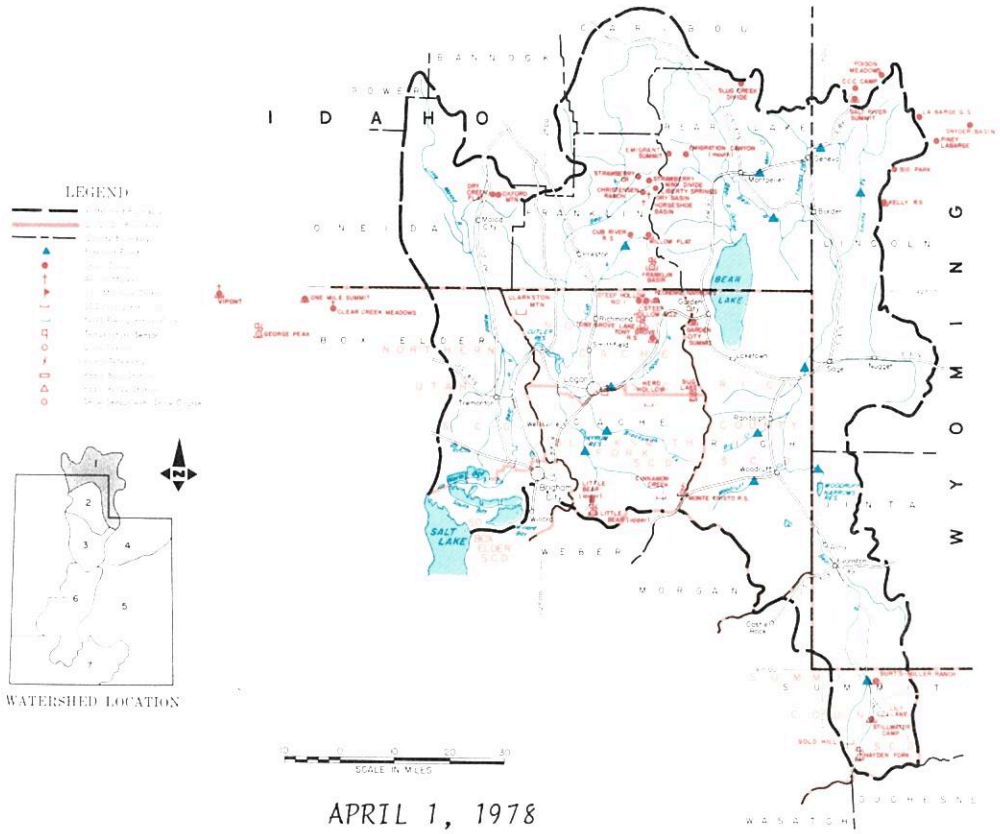
Virgin River is now expected to flow 158% of average and Coal Creek 161%. Beaver River is forecast 140% of average at Beaver and 147% for Minersville Inflow. Chalk Creek near Fillmore is forecast 161%, Oak Creek 215% and Chicken Creek near Levan 190%.

Price River is forecast 159% of average, Huntington 133%, Cottonwood 117%, Ferron 158%, Muddy 140%, and Fremont River 122%. Mill Creek near Moab is expected to flow 150% of average.

All areas are expected to have adequate water supplies except those water users depending on storage water only where last year's carryover storage was very low.

WATER SUPPLY OUTLOOK
BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



APRIL 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER did not receive average increases during March and now ranges from 108% of average on the Upper Raft River to 121% on the Upper Bear. The Lower Bear and Logan Rivers are both 112% of the April 1 average.

PRECIPITATION at mountain stations ranged from 75% of the March average at Salt River Summit to 154% at Willow Flat. Garden City Summit was 94% and Monte Cristo 111%.

SOIL MOISTURE is still a little below average at higher elevations, but most valley soils are well primed.

RESERVOIR STORAGE is still below average in all reservoirs except Porcupine. Maximum elevation of Bear Lake this year is expected to be within one foot of last year.

STREAMFLOW FORECASTS range from 94% of the April-July average for the Bear River at State Line to 138% for Thomas Fork. The Bear at Harer is expected to be 111% and 98% at Randolph. Logan River is forecast 114%, Blacksmith Fork 115%, Little Bear 106%, and Cub River 110%. Water users in the area are expected to have adequate water supplies this year and peak flows are expected to be in the normal range.

M7-OL-22027-1

BEAR RIVER BASIN in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average †
BEAR RIVER					
Bear nr UT-Wyo. State Line	105	94	Apr-July	41	112
Bear nr Woodruff	125	95	Apr-July	28	131
Woodruff Crk nr Woodruff, UT	15.0	98	Apr-July	2.7	15.4
Big Creek nr Randolph, Utah	4.2	100	Apr-July	- -	4.2b
Bear nr Randolph	100	98	Apr-July	3.4	102
Thomas Fork nr UT-Wy State Ln	44	138	Apr-Sept	3.8	32
Smith's Fork nr Border, Wyo.	155	134	Apr-Sept	26.8	116
Bear at Harer, Idaho 1	330	111	Apr-Sept	34.6	297
Logan nr Logan	129	114	Apr-July	34	113
Blacksmith Fork nr Hyrum	55	115	Apr-July	16.7	48
Little Bear nr Paradise	36	106	Apr-June	6.3	34
Cub River nr Preston, ID	55	110	Apr-Sept	- -	50

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction
b - Average of all past record - less than 15 years

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
BEAR RIVER	31	252	115
UPPER BEAR RIVER	10	261	121
LOWER BEAR RIVER	21	248	112
LOGAN RIVER	4	262	112
UPPER RAFT RIVER	3	122	108

RESERVOIR STORAGE (Thousand Acre Feet) MIDMONTH READING

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average†
BEAR RIVER	Bear Lake	1421.0	801.6	1058.3	976.4
	Woodruff Narrows	26.5	10.9	3.9	24.5
LITTLE BEAR	Hyrum	15.3	10.5	15.6	12.9
	Porcupine	11.3	6.1	4.4	4.9

† - 1958-72 15 Year Average Period
e - estimated

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a) Forecast Range	PEAK FLOW (SECOND FEET) (a) Average †
Big Creek nr Randolph	40 - 80	41b
Logan River nr Logan	875-1450	984
Woodruff Creek nr Woodruff	250- 350	240
Little Bear nr Paradise	450- 550	473

(a) - Maximum mean daily peak flow

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WATER SUPPLY OUTLOOK

WEBER-OGDEN WATERSHEDS in UTAH

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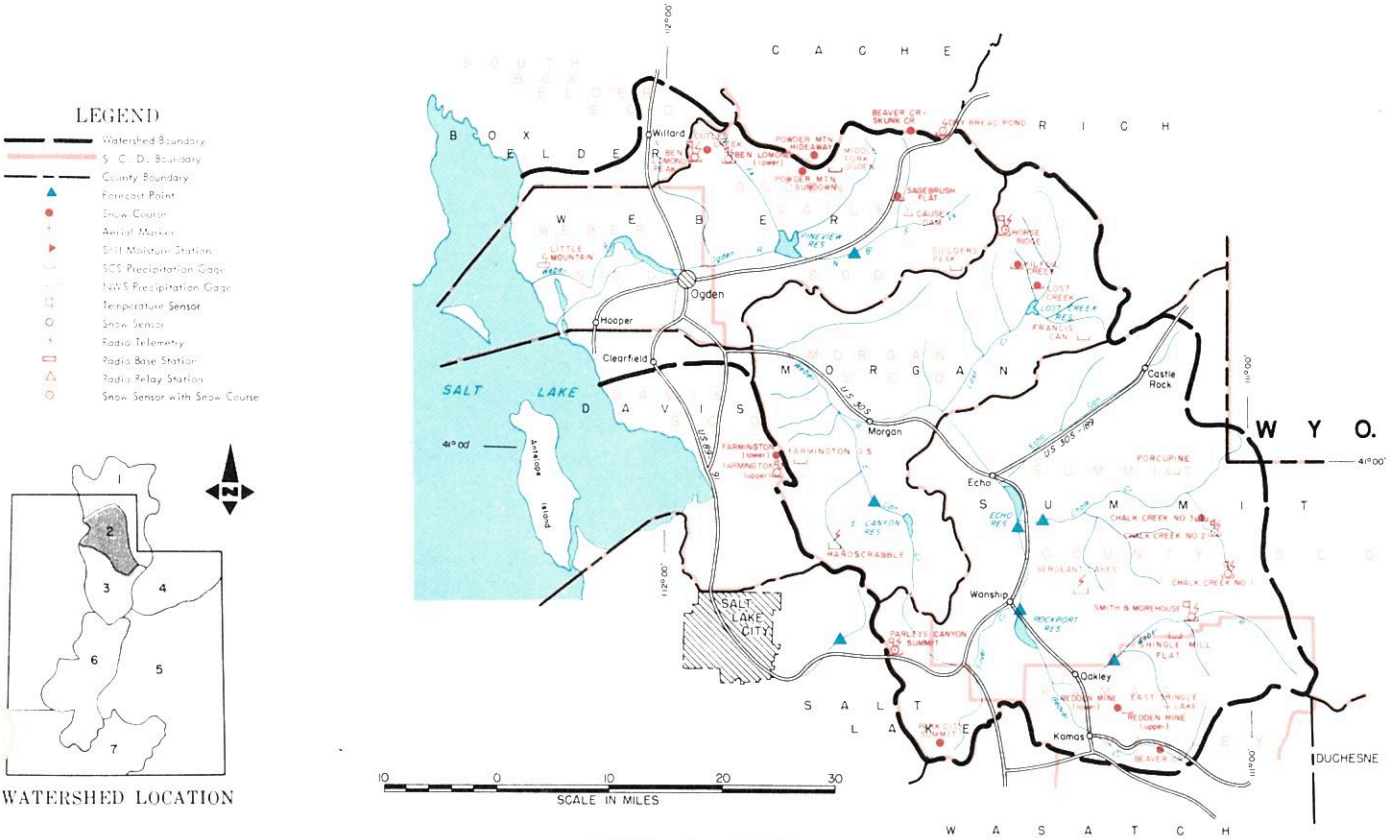
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



APRIL 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER is now 111% of the April 1 average on the Weber River and 143% on the Ogden. Lower elevation snow cover melted faster than usual during a warm March. Higher elevation snow courses had better than average increases except on Lost Creek, Chalk Creek and the head of the Weber.

PRECIPITATION at mountain stations ranged from 81% of average at Trial Lake to 253% at Ben Lomond Trail.

SOIL MOISTURE is still a little below average at medium and high elevations, but above average at lower elevations.

RESERVOIR STORAGE has improved and is now 145% on the Ogden and 113% on the Weber. All reservoirs are expected to fill with the possible exception of Lost Creek and East Canyon. Filling these will depend on how early and how fast runoff progresses on these watersheds.

STREAMFLOW FORECASTS range from 78% of the April-June average on Chalk Creek to 132% for Pineview Inflow. The South Fork Ogden is forecast 118%, but Lost Creek only 95% of average. The Weber is forecast 105% at Oakley, 108% for Rockport Inflow, 106% at Coalville, East Canyon 123%, and Hardscrabble 122%. Farmington Creek is forecast 129% of average. Maximum mean daily peak flow is expected to be between 650 to 900 c.f.s. on the South Fork of Ogden, 150 to 250 c.f.s. on Lost Creek and 250 to 550 c.f.s. on Chalk Creek. Near average peaks are expected on other streams in this area unless higher than average temperature and/or precipitation occur during the snowmelt period.

M7-OL-22027-2

WEBER-OGDEN WATERSHEDS in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average †
WEBER-OGDEN RIVERS					
Weber nr Oakley	105	105	Apr-June	31.6	100
Rockport Reservoir Inflow 1	112	108	Apr-June	- -	104
Chalk Creek at Coalville	25	78	Apr-June	4.2	32
Weber nr Coalville	120	106	Apr-June	14.3	113
Lost Creek nr Croydon, Utah 1	13.0	95	Apr-June	2.5	13.7
East Canyon Creek nr Morgan 1	27	123	Apr-June	11.4	22
Hardscrabble Crk nr Porterville	17.5	122	Apr-June	- -	14.4b
South Fork Ogden nr Huntsville	59	118	Apr-June	8.5	50
Pineview Reservoir Inflow 2	145	132	Apr-June	13.5	110
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	10.1	129	Apr-July	- -	7.8

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U.S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
b - Average of all past record - less than 15 years

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN (and/or SUBWATERSHED)	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
OGDEN RIVER	6	399	143
WEBER RIVER	12	169	111

RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average†
OGDEN	Causey	6.9	3.8	3.6	2.8
	Pineview	110.1	65.0	58.0	44.7
WEBER	East Canyon	48.1	24.5	33.5	21.0
	Echo	73.9	51.0	50.8	45.7
	Lost Creek	20.0	11.2	13.3	12.0
	Rockport	60.9	36.7	30.6	27.1
	Willard Bay	193.3	151.4	152.8	136.5

† - 1958-72 15 Year Average Period

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a) Forecast Range	PEAK FLOW (SECOND FEET) (a) Average †
Lost Creek nr Croydon	150 - 250	206b
South Fork Ogden nr Huntsville	650 - 900	697
Chalk Creek nr Coalville	250 - 550	373

(a) - Maximum mean daily peak flow

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WATER SUPPLY OUTLOOK

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

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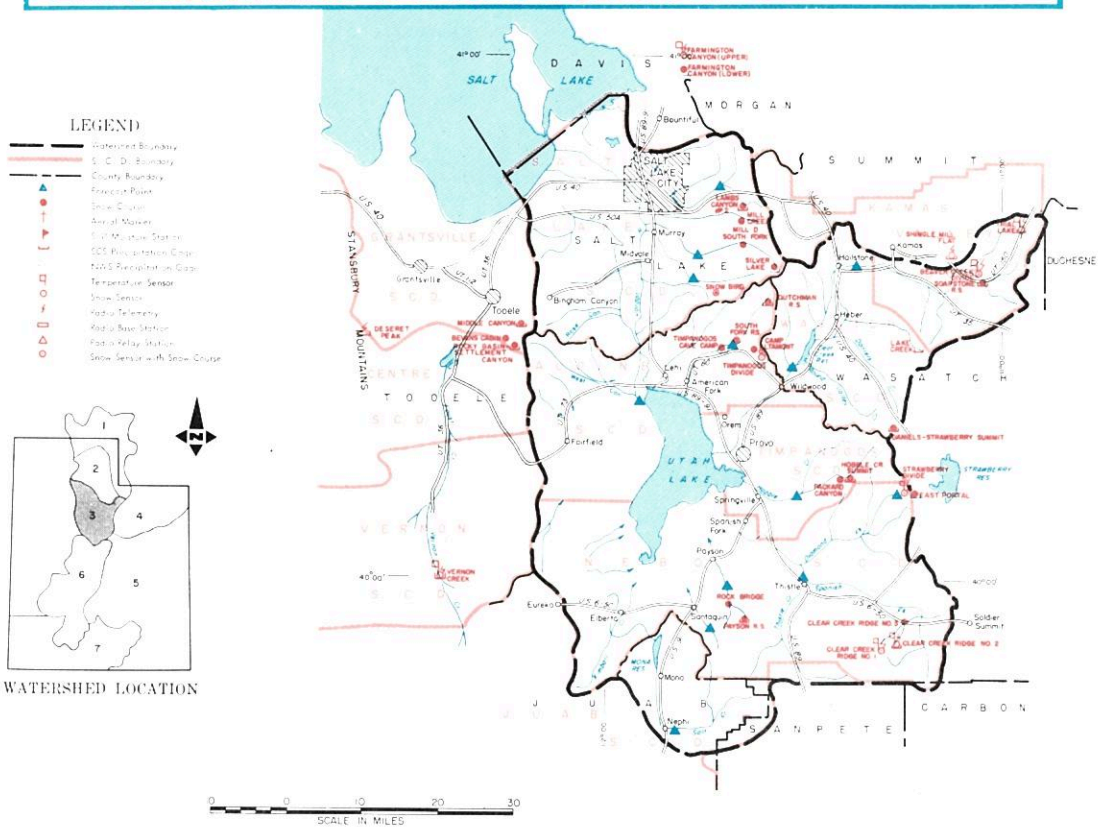
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



APRIL 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 124% of the April 1 average for the watersheds above Salt Lake to 137% for the watersheds above Utah Lake. Tooele Valley is 133% of average. The Upper Provo River is 113% of average after receiving less than average March increases to the snowpack.

PRECIPITATION at mountain locations ranged from 78% of average at Soapstone R.S. to 240% at Dutchman R.S.

SOIL MOISTURE is still a little below average on higher watersheds, but valley soils are well primed.

RESERVOIR STORAGE is 15 to 23% above average in Utah Lake and Strawberry as a result of good carryover from last year, but below average in Deer Creek.

STREAMFLOW FORECASTS range from 94% of average for the Provo at Deer Creek Dam to 214% for Vernon Creek. Strawberry Inflow and Hobble Creek are forecast 141% of average, American Fork 131%, Spanish Fork 135%, Payson Creek 132%, and Utah Lake Inflow 125% of average. The creeks above Salt Lake City range from 117% on Little Cottonwood to 129% on Emigration Creek. Big Cottonwood and Mill Creek are forecast 119%. City Creek and Parleys are forecast 120% of the April-July average. Settlement Creek above Tooele is forecast 145% of average. Maximum mean daily peak flows in this area are expected to be near normal except for Vernon Creek which should be above normal due to better than twice average snowpack.

M7-OL-22027-3

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average +
PROVO RIVER AND UTAH LAKE					
Provo nr Hailstone[1]	100	98	Apr-July	31.5	102
Provo below Deer Creek Dam[1]	104	94	Apr-July	50.1	111
American Fork nr American Fork	38	131	Apr-July	7.5a	29
Hobble Creek nr Springville	22.5	141	Apr-July	- -	16
Strawberry Reservoir Inflow[1]	65	141	Apr-July	5.7	45
Spanish Fork at Thistle	43	135	Apr-July	- -	32
Payson Creek nr Payson	8.3	132	Apr-July	- -	6.3
Utah Lake Inflow	260	125	Apr-July	124.7	208
JORDAN RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	41	117	Apr-July	19.8	35
Big Cottonwood nr SLC	43	119	Apr-July	18.8	36
Parley's Creek nr SLC	13.8	120	Apr-July	3.5	11.5
Mill Creek nr SLC	6.8	119	Apr-July	- -	5.7
Emigration Creek nr SLC	4.0	129	Apr-July	- -	3.1
City Creek nr SLC	8.3	120	Apr-July	- -	6.9
TOOELE VALLEY					
Vernon Creek nr Vernon	1.5	214	Mar-July	0.6	0.7
Settlement Crk nr Tooele	3.2	145	Apr-July	- -	2.2

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
PROVO RIVER & UTAH LAKE	14	298	137
JORDAN RIVER & SALT LAKE	6	178	124
TOOELE VALLEY	4	172	133

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction
a - Partly estimated

RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average +
SPANISH FORK	Strawberry	270.0	147.2	210.2	119.2
UTAH LAKE	Utah Lake	883.9	738.0	790.2	642.3
	Settlement Creek	1.2	0.5	0.7	- -
	Vernon Creek	0.6	0.6	0.6	- -
PROVO	Deer Creek	149.7	86.0	96.7	95.8

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) (a) Average +
Hobble Creek nr Springville	250 - 450	210
Spanish Fork nr Thistle	350 - 700	365
Big Cottonwood nr Salt Lake City	420 - 500	310

(a) - Maximum mean daily peak flow

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WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

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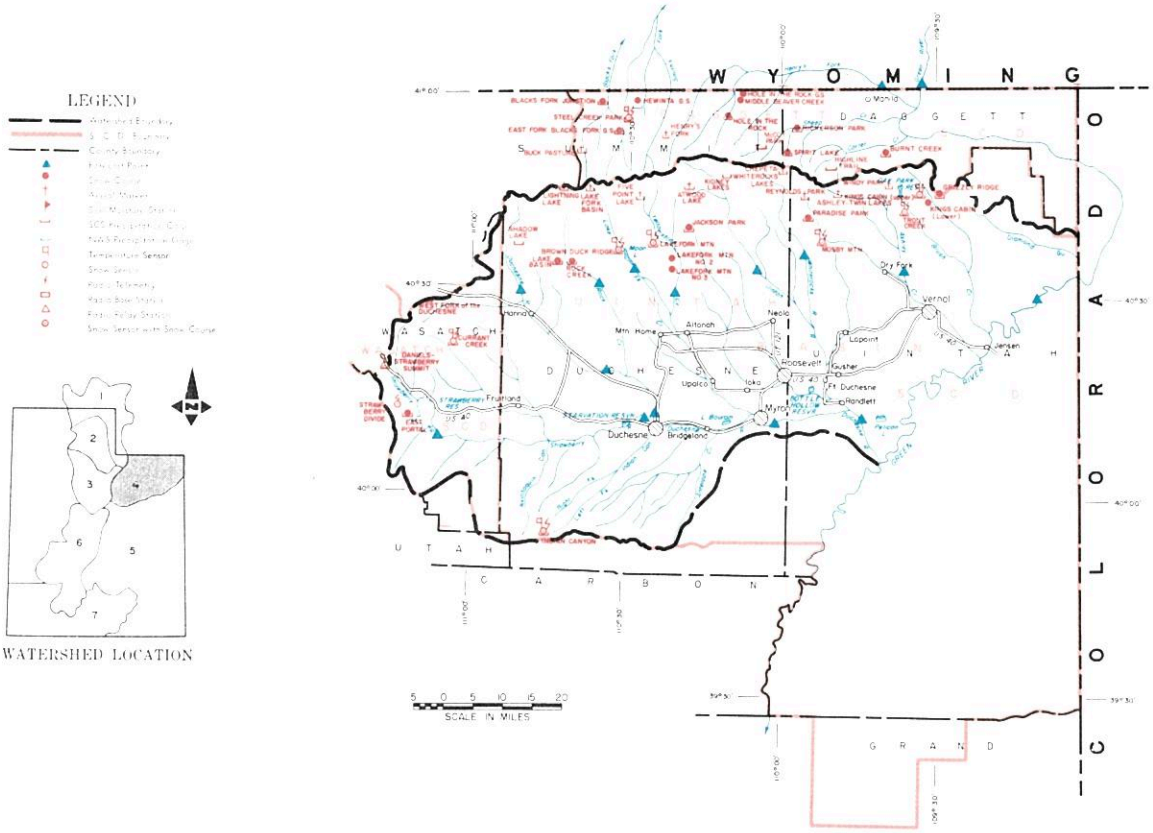

APRIL 1, 1978

THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

SNOW COVER ranges from 107% of average on Black's Fork to 135% on Strawberry River. Ashley Creek is 116%, Uintah-Whiterocks 125%, and Lakefork-Yellowstone 115%. Aerial markers in the Uinta's have not been flown due to poor weather.

PRECIPITATION at mountain stations ranged from 57% of the March average at Lakefork Mountain to 264% at Indian Canyon.

SOIL MOISTURE is still below average at higher elevations.

RESERVOIR STORAGE is still below average. Moon Lake is 69% of its April 1 average and Steinaker is 34% of average.

STREAMFLOW FORECASTS range from 85% of the April-July average on the Uintah to 125% for the Strawberry at Duchesne. The Duchesne is forecast 90% at Tabiona, 94% at Duchesne, 101% at Myton, and 94% at Randlett. Rock Creek is forecast 91% of average, Lakefork 89%, Yellowstone 88%, Whiterocks 86%, Ashley Creek 90%, Henry's Fork 89%, Black's Fork 90%, and Flaming Gorge Inflow 118%. Currant Creek is forecast 127% of the April-July average. Maximum mean daily peak flows in this area are expected to be near normal during the snowmelt period unless above normal precipitation occurs during the melt period.

M7-OL-22027-4

UINTAH BASIN and DAGGETT SCD's in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average †
DUCHESNE RIVER					
Duchesne nr Tabiona[1]	94	90	Apr-July	19.2	104
Duchesne at Duchesne[1]	166	94	Apr-July	48.4	177
Strawberry at Duchesne	70	125	Apr-July	10.1	56
Rock Creek nr Mtn. Home	86	91	Apr-July	34.5	94
Currant Creek nr Fruitland	25	127	Apr-July	- -	19.7
Lakefork below Moon Lake[1]	62	89	Apr-July	30.2	69
Yellowstone nr Altonah	57	88	Apr-July	29.1	65
Duchesne at Myton[1]	220	101	Apr-July	8.3	218
Whiterocks nr Whiterock	50	86	Apr-July	24.2	58
Uintah nr Neola	75	85	Apr-July	70.5	88
Duchesne at Randlett[1]	250	94	Apr-July	13.1	267
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork at Linwood	40	89	Apr-Sept	3.6	45
Black's Fork at Millburne	85	90	Apr-July	43.6	94
Flaming Gorge Inflow[1]	1390	118	Apr-July	233.0	1174
Ashley Creek nr Vernal	45	90	Apr-July	14.2	50

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
DUCHESNE RIVER - TOTAL	11	413	129
LAKEFORK-YELLOWSTONE CREEKS	2	626	115
STRAWBERRY RIVER	4	338	135
UINTAH - WHITEROCKS RIVERS	2	523	125
ASHLEY CREEK	2	498	116
BLACK'S FORK	4	160	107

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average†
ASHLEY CREEK	Steinaker	33.3	8.8	21.0	26.0
GREEN RIVER	Flaming Gorge	3749.0	1998.0	2756.4	1588.0
LAKE FORK	Moon Lake	35.8	13.3	8.5	19.2
STRAWBERRY	Starvation	165.3	147.2	165.9e	- -
UINTAH	Bottle Hollow	11.3	10.2	10.6	- -

+ - 1958-72 15 Year Average Period

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)(a) Forecast Range	PEAK FLOW (SECOND FEET)(a) Average †
Strawberry at Duchesne	750 - 1500	628
Ashley Creek nr Vernal	600 - 1300	906

(a) - Maximum mean daily peak flow

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WATER SUPPLY OUTLOOK
CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

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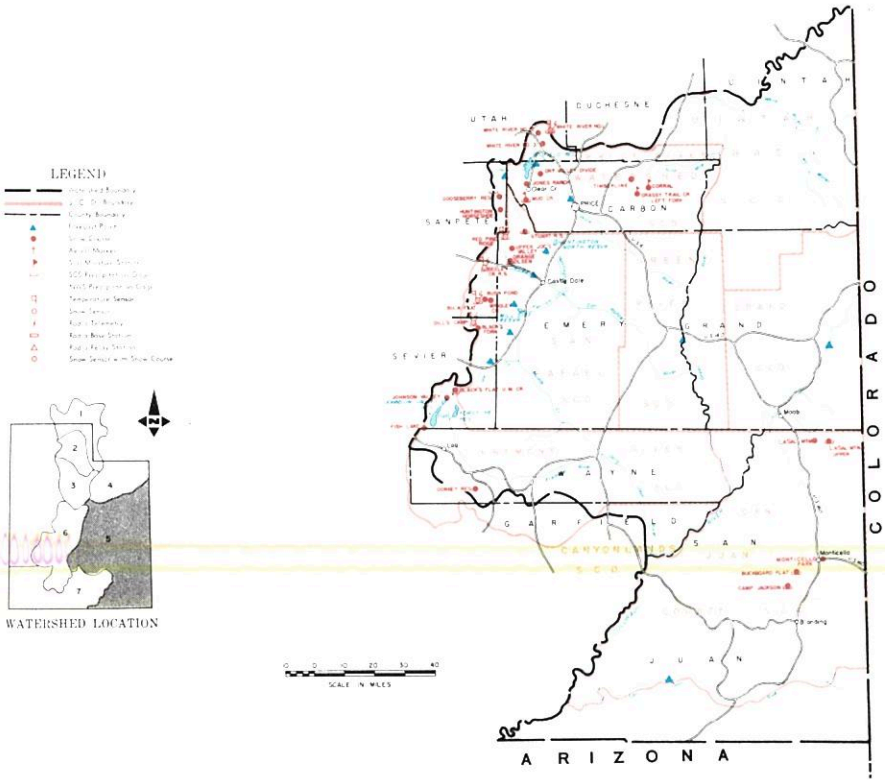
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



APRIL 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 145% of average on the Blue Mountains to 164% on the Fremont River and LaSal Mountains. The Price River is 150% and San Rafael is 148% of the April 1 average.

PRECIPITATION at mountain stations ranged from 100% at Buck Flat to 240% at Fish Lake.

SOIL MOISTURE at higher elevations is still below average. Valley soils are near average.

RESERVOIR STORAGE is still below average in Scofield Reservoir. Huntington and Joe's Valley are a little above the April 1 average.

STREAMFLOW FORECASTS now range from 117% of the April-July average on Cottonwood Creek to 159% for Scofield Inflow and Price River. Huntington Creek is forecast 133% of average, Ferron Creek 158%, and Muddy Creek 140%. Seven Mile Creek is forecast 122% and Mill Creek near Moab 150% of average. The Green at Green River is forecast 135% and the San Juan 141% near Bluff. Maximum mean daily peak flows in this area are expected to be above normal, but should not cause damage unless excessive temperature and/or precipitation occurs during the snowmelt period.

M7-OL-22027-5

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORDS THOUSAND ACRE FEET Last Year 2	PAST RECORDS THOUSAND ACRE FEET Average +
PRICE RIVER					
Gooseberry Crk nr Scofield	16.1	156	Apr-July	2.2	10.0
Scofield Reservoir Inflow	54	159	Apr-July	4.2	34
Price nr Heiner[1]	102	159	Apr-July	- -	64b
SAN RAFAEL RIVER					
Huntington Crk nr Huntington	60	133	Apr-July	11.3	45
Cottonwood Crk nr Orangeville	54	117	Apr-July	10.4	46b
Ferron Creek nr Ferron	55	158	Apr-July	15.9	35
MUDDY CREEK					
Muddy Creek nr Emery	25	140	Apr-July	3.5	17.7
UPPER COLORADO BASIN					
Colorado nr Cisco, Utah	4215	149	Apr-July	534.6	2835
Green at Green River, Utah	3842	135	Apr-July	882.7	2839
Mill Creek nr Moab	7.4	150	Apr-July	1.4	4.9
Navajo Reservoir Inflow	750	126	Apr-July	- -	597
San Juan nr Bluff, Utah	1203	141	Apr-July	122.8	853
FREMONT RIVER					
Seven Mile Crk nr Fish Lake	7.8	122	Apr-July	- -	6.4b

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEAR)

RIVER BASIN WITH SUBWATERSHED	Number of Sites Average	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
PRICE RIVER	10	583	150
SAN RAFAEL RIVER	8	337	148
FREMONT RIVER	4	316	164
LASAL MOUNTAINS	2	388	164
BLUE MOUNTAINS	2	925	145

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

RESERVOIR STORAGE (Thousand Acre Feet) (MIDMONTH READING)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average +
PRICE RIVER	Scofield	65.8	19.7	30.2	31.0
SAN RAFAEL	Huntington North	3.9	3.9	4.3	2.9
	Joe's Valley	54.6	35.1	37.9	32.9
	Mill Site	16.7	2.0	2.0	--
SAN JUAN	Navajo	1696.0	960.7	1103.6	

+ - 1958-72 15 Year Average Period
b - Average of all past record - less than 15 years

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a) Forecast Range	PEAK FLOW (SECOND FEET) (a) Average +
Ferron Creek near Ferron	500-800	419
Muddy Creek near Emery	120-250	157

(a) - Maximum mean daily peak flow

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WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

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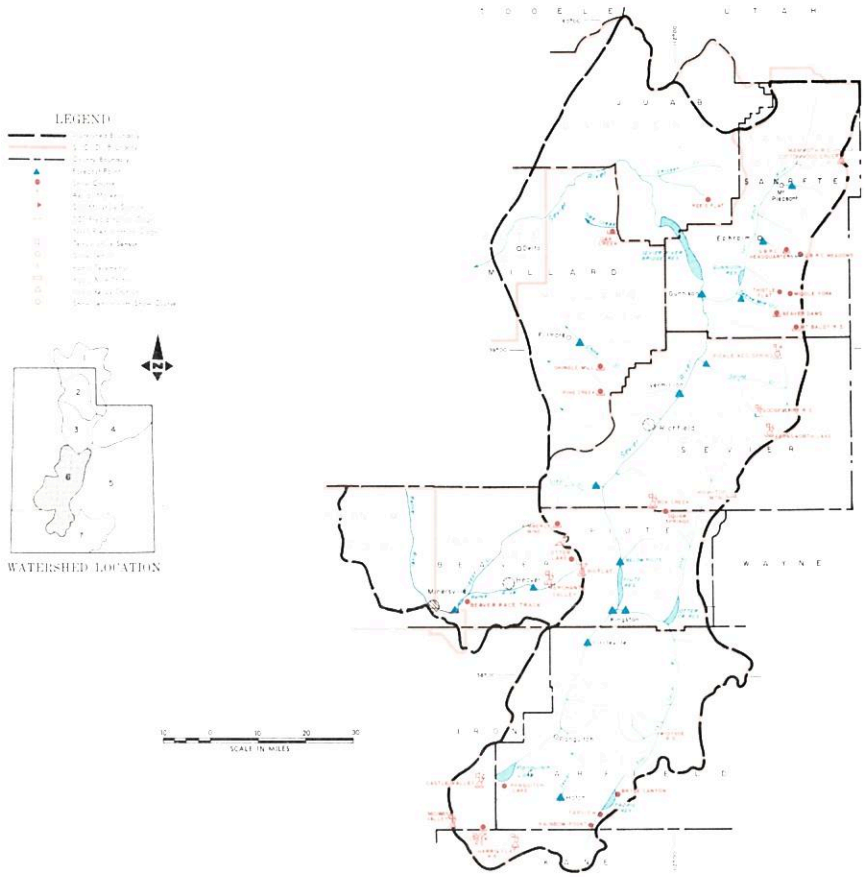
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



APRIL 1, 1978

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE FOR NATURAL FLOW USERS AND NEAR AVERAGE FOR MOST RESERVOIR STORAGE WATER USERS

SNOW COVER improved 7 to 50% during March and now ranges from 138% of the April 1 average on the East Fork Sevier to 185% on the Beaver River. The South Fork is now 161% and the Lower Sevier 145%. Near record increases were recorded at Pine Creek above Fillmore (11.1 inches of water increase) and Big Flat at the head of Beaver River (13.5 inches increase).

PRECIPITATION at mountain locations ranged from 313% of average at Merchant Valley to 82% at GBRC Meadows. Most other areas ranged from near average to better than twice average.

SOIL MOISTURE is below average at higher elevations and near average in the valleys.

RESERVOIR STORAGE is below average except for Otter Creek which is 110% of the April 1 average. Piute and Otter Creek Reservoirs may come close to filling, but Sevier Bridge, and Minersville will likely only be about half useable capacity.

STREAMFLOW FORECASTS improved greatly after heavy increases to the snowpack and now range from 123% of average for Antimony Creek to 223% for the Sevier near Circleville. The Sevier is forecast 158% of average at Hatch, 189% at Kingston, and 128% at Gunnison. Clear Creek is forecast 166% and the East Fork Sevier 118%. Salina Creek is forecast 186% of average and Chalk Creek 161%. Beaver River is forecast 140% near Beaver and 147% for Minersville Inflow. Ephraim and Pleasant are 160% and 158% respectively. Maximum mean daily peak flows are expected to be above normal on Beaver River, Chalk Creek, Salina Creek, Clear Creek and the South Fork of the Sevier. Panguitch Creek has potential for a high peak flow if warmer than average temperature and/or above average precipitation occur early in the snowmelt season.

M7-OL-22027-6

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average +
SEVIER RIVER					
Sevier at Hatch	63	158	Apr-July	10.6	40
Sevier nr Circleville	62	223	Apr-July	- -	28
Sevier nr Kingston	39	189	Apr-July	1.9	21
Antimony Crk nr Antimony	9.0	123	Apr-July	- -	7.3
East Fork Sevier nr Kingston 1	17.0	118	Apr-July	- -	14.4
Sevier below Piute Dam 1	55	167	Apr-July	- -	33
Clear Crk nr Sevier (abv Div)	25	166	Apr-July	4.1	15.0
Inflow					
Kingston to Vermillion Dam	60	120	Apr-June	- -	50
Vermillion Dam to Gunnison	55	141	Mar-June	- -	39
Salina Creek at Salina	15.1	186	Apr-June	0.1	8.1b
Sevier nr Gunnison	50	128	Apr-July	15.4	39
Chalk Creek nr Fillmore	25.0	161	Apr-July	- -	15.5b
Chicken Creek nr Levan	5.5	190	Apr-July	- -	2.9b
Oak Cr. nr Oak City	2.8	215	Apr-July	- -	1.3b
SAN PITCH RIVER					
Ephraim Creek nr Ephraim	22	160	Apr-July	- -	13.9b
Pleasant Crk nr Mt. Pleasant	12.3	158	Apr-July	- -	7.8
BEAVER RIVER					
Beaver nr Beaver	28	140	Apr-July	6.1	20
North Creek (Combined)	15.0	128	Apr-July	- -	11.7
Minersville Reservoir Inflow 1	8.5	147	Apr-June	- -	5.8

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
UPPER SEVIER RIVER	9	424	154
East Fork Sevier	4	308	138
South Fork Sevier	6	520	161
LOWER SEVIER	14	210	145
BEAVER RIVER	3	356	185

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

RESERVOIR STORAGE (Thousand Acre Feet) MIDMONTH READING

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average+
SEVIER RIVER	Gunnison	18.2	9.1e	4.4	14.9
	Otter Creek	52.5	37.3	34.1	34.0
	Piute	71.8	24.0	29.4	46.8
	Sevier Bridge	236.0	97.8	125.1	116.1
BEAVER RIVER	Minersville (Rky Fd)	23.3	7.9	9.6	14.3

b - Average of all past record - less than 15 years
+ - 1958-72 15 Year Average Period
e - Estimated

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a) Forecast Range	PEAK FLOW (SECOND FEET) (a) Average +
Sevier River at Hatch	570 - 850	418
Sevier River nr Circleville .	478 - 690	304
Sevier River nr Kingston	500 - 650	263
Clear Creek nr Sevier	260 - 320	170
Salina Creek nr Salina	290 - 360	235
Beaver River nr Beaver	350 - 500	212

(a) - Maximum mean daily peak flow

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second Ft	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Sevier at Hatch (upper)	100	Aug 15	July 10
Sevier at Circleville	90	Jul 25	June 24
Clear Creek nr Sevier-above Div.	5	Aug 13	July 28
Salina Creek at Salina	25	June 15	June 10

PRIMARY WATER RIGHT FORECASTS (PERCENT OF WATER RIGHT DELIVERED)

RIVER SECTION	Percent Forecast For This Year	Average Percent Delivered During 15 year Period+	Forecast Period
SEVIER RIVER			
Panguitch Valley	100	81	April-Sept
Circle Valley	90	65	April-Sept
Sevier Valley	55	38	April-Sept
Below Vermillion Dam	63	55	April-Sept

Inflow to Sevier Bridge Reservoir for the October-March period was about 68,800 acre feet.

The flow below Vermillion - Above 360 cfs is expected to be about 4,000 acre feet.

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SOIL CONSERVATION SERVICE
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WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS

APRIL 1, 1978

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER now ranges from 118% of the April 1 average on Parowan Creek to 205% on the Virgin River. Higher elevations had heavy increases while lower areas like the Enterprise-New Harmony area lost snow cover. This area is now only 125% of average. Coal Creek is now 184% of average. Webster Flat received over six times the normal March snow water increase.

PRECIPITATION at mountain stations ranged from 124% of average on Parowan Creek to 317% at Webster Flat.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is above average after heavy rains and low elevation snowmelt filled most reservoirs of the area early in March.

STREAMFLOW FORECASTS have improved on streams heading at higher elevations after near record monthly increases to the snowpack. Virgin River is now forecast 158% for the April-June period and the Santa Clara remained at 150% of average. Coal Creek is now expected to flow 161% of its April-July average and Lake Powell Inflow raised to 142% of its average. Snowmelt peak flows are expected to range from 1180 to 1600 c.f.s. for the maximum mean daily flow on the Virgin at Virgin and from 250 to 500 c.f.s. on Coal Creek. High flows have already occurred on the Santa Clara and Shoal Creek, as the low snow was rained off early in March and should not recur unless much above average temperature and/or precipitation occur again to melt the high elevation snow faster than usual. Good water supplies are expected for all users in this area.

M7-OL-22027-7

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average +
VIRGIN RIVER					
Virgin nr Virgin	76	158	Apr-June	24.7e	48b
Santa Clara nr Pine Valley	5.4	150	Apr-June	0.8	3.6b
COAL CREEK					
Coal Creek nr Cedar City	26	161	Apr-July	3.6	16.1
UPPER COLORADO					
Lake Powell Inflow	9780	142	Apr-July	1130	6881

2 - Provisional Flows - Subject to correction

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEAR)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
COAL CREEK	3	631	184
VIRGIN RIVER	2	737	205
PAROWAN CREEK	4	249	118
ENTERPRISE - NEW HARMONY	2	1480	125

RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average+
COLORADO	Lake Powell	25002.0	14528.0	17943.0	8462.1
	Blue Mesa	829.5	247.1	379.7	- -

b - Average of all past record - less than 15 years
+ - 1958-72 15 Year Average Period

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a) Forecast Range	PEAK FLOW (SECOND FEET) (a) Average +
Coal Creek nr Cedar City	250 - 500	245
Virgin nr Virgin	1180 - 1600	631b

(a) - Maximum mean daily peak flow

+ - 1958-1972 period

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SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average +	CURRENT INFORMATION Date of Reading	CURRENT INFORMATION Month's Precipitation	CURRENT INFORMATION Average +	FROM APPROX. OCT 1 TO DATE This Year	FROM APPROX. OCT 1 TO DATE Average +	FROM APPROX. OCT 1 TO DATE Percent of Average
GREAT BASIN											
UPPER BEAR RIVER (Above Harer, Idaho)											
Big Park	3/31	63	25.8	8.5	21.2						
Burts-Miller Ranch	3/27	13	5.1	4.1	5.9	3/27	2.10	- -	8.94	9.03a	99
CCC Camp	3/30	37	16.4	7.6	12.5						
Hayden Fork	3/27	47	17.2	9.9	16.2b	3/27	3.70	- -	22.72	20.48a	111
Kelly R.S.	3/31	61	25.4	7.7	18.9						
Monte Cristo R.S.	3/29	62	27.7	11.2	26.1	3/29	5.26	4.73b	28.55	27.62b	103
Poison Meadows	3/31	95	38.8	11.7	30.8						
Salt River Summit	3/30	53	21.6	7.9	16.2	3/30	1.92	2.57	22.25	16.74	133
Snyder Basin	3/31	52	22.4	5.7	16.6						
Stillwater Camp	3/27	34	11.8	6.9	11.3	3/27	2.49	- -	13.36	12.01	111
LOWER BEAR RIVER (Below Harer, Idaho)											
Bug Lake	3/29	47	20.5	- -	- -						
Christensen Ranch	3/30	12	5.0	4.9	7.1						
Cliff Canyon	3/30	22	9.5	2.8	- -						
Cub River R.S.	3/30	7	3.2	5.7	6.1						
Daniels Creek	3/30	10	3.2	1.3	- -						
Dry Basin	3/30	83	36.9	13.2	30.0a						
Dry Creek Flat	3/30	4	1.7	0.0	3.3						
Emigrant Summit	3/31	68	28.9	10.1	25.4						
Emigration Canyon	3/30	25	10.8	4.7	10.7						
Franklin Basin	3/30	71	33.1	14.0	28.0						
Garden City Summit	3/29	46	19.4	5.3	19.2	3/29	2.85	3.04b	23.39a	19.72b	119
Horseshoe Basin	3/30	76	35.4	13.4	28.1a						
Klondike Narrows	3/30	50	22.8	9.0	20.7	3/30	4.00	3.59b	27.77	22.62b	123
Liberty Springs	3/30	116	50.4	16.4	36.8						
Little Bear (lower)	3/29	21	8.3	5.1	9.5						
Little Bear (upper)	3/29	27	11.4	6.8	12.0						
Lower Elkhorn	3/30	32	15.5	5.1	- -						
Oxford Mountain	3/30	18	6.0	3.8	8.2						
Slug Creek Divide	3/28	50	21.0	8.3	16.7						
Steep Hollow #1	3/30	102	43.4	16.4	38.2b						
Steep Hollow #2	3/30	69	32.7	13.0	28.8b						
Strawberry Creek	3/31	17	6.7	4.7	10.0						
Strawberry Mink Divide	3/30	59	27.0	9.0	21.5						
Tony Grove Lake	3/30	98	47.0	15.2	- -						
Tony Grove R.S.	3/29	27	12.3	4.1	11.9	3/29	3.32	2.51a	22.95	18.12a	127
Upper Elkhorn	3/30	63	25.5	5.9	- -						
Willow Flat	3/30	34	15.2	6.0	13.3	3/30	5.82	3.78b	32.72	22.80b	144
Worm Creek	3/30	48	22.1	8.3	- -						
RAFT RIVER											
Clear Creek Meadows	3/28	68	26.2	9.5	20.9						
George Peak	3/28	77	31.0	9.8	- -						
One Mile Summit	3/28	16	6.1	4.0	7.8						
Vipont (A)	3/28	42	16.0	6.5	15.8b						
OGDEN RIVER											
Beaver Creek-Skunk Creek	3/29	29	14.1	3.5	11.5						
Ben Lomond Peak	3/29	117	50.6	11.6	35.4						
Ben Lomond (lower)	3/29	54	23.7	5.3	14.5	3/29	7.86	3.48	37.21	24.73	150
Ben Lomond Trail						3/29	8.12	3.60a	- -	24.12a	- -
Causey Dam						3/29	2.63	2.28a	12.93	14.31a	90
Cutler Creek	3/29	96	41.3	9.2	25.7b						
Dry Bread Pond	3/29	50	23.3	8.6	18.1	3/29	4.84	3.56b	- -	20.77b	- -
Sagebrush Flat	3/29	0	0.0	0.0	1.6	3/29	3.08	2.28b	15.39	14.32b	107
WEBER RIVER											
Beaver Creek R.S.	3/28	19	7.8	3.4	7.2						
Chalk Creek #1	3/27	63	23.7	11.5	22.4						
Chalk Creek #2	3/27	40	14.2	10.0	15.3						
Chalk Creek #3	3/27	16	6.0	6.3	7.4	3/27	2.47	2.59a	13.60	12.12a	112
East Shingle Lake (A)	4/4	99	36.6	13.0	- -						
Farmington Canyon (lower)	3/29	68	30.1	13.8	22.2	3/29	7.63	4.68	34.03	26.82	127
Farmington Canyon (upper)	3/29	94	39.5	17.1	29.5						
Farmington G.S.						3/29	8.14	- -	36.63	- -	- -
Horse Ridge	3/29	49	22.0	9.7	22.8b	3/29	4.91	3.61a	26.56	26.22a	101

+ 1958-1972 period.

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SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
				Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
WEBER RIVER (cont'd)											
Killfoil Creek	3/29	34	14.0	5.5	13.6a						
Lost Creek Reservoir	3/29	0	0.0	0.0	1.5a	3/29	2.71	1.54a	12.49	- -	- -
Park City Summit	3/31	69	28.3	18.9	- -						
Parley's Canyon Summit	3/30	53	22.2	13.7	17.9	3/30	5.45	3.86	27.27	22.02	124
Redden Mine (lower)	3/28	50	19.8	10.5	18.5						
Redden Mine (upper)						3/28	- -	3.71a	25.75	19.97a	129
Sergeant Lake (A)	4/4	48	18.2	9.6	- -						
Smith & Morehouse	3/27	37	14.0	7.5	13.2b	3/27	4.12	3.15	20.00	18.09	111
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide	3/28	33	13.6	5.2	- -						
Camp Altamont	3/29	52	21.7	3.3	13.6						
Clear Creek Ridge #1	3/30	57	23.8	9.0	18.1						
Clear Creek Ridge #2	3/29	42	15.8	6.8	13.4	3/29	2.20	2.78	19.90	15.30	130
Clear Creek Ridge #3	3/30	14	5.9	0.2	5.5						
Dutchman R.S.	3/29	59	25.5	6.9	16.0	3/29	7.80	3.13b	32.90	20.95b	157
Hobble Creek Summit	3/29	50	20.2	5.9	12.9	3/29	6.20	2.78	22.90	16.66	137
Packard Canyon	3/29	33	13.6	4.9	8.2						
Payson R.S.	3/28	56	24.4	11.1	17.3	3/28	2.85	3.06	23.50	17.69	133
Rock Bridge	3/28	28	14.2	8.9	10.8						
Soapstone R.S.	3/28	35	13.2	5.9	12.1	3/28	1.93	2.47	18.18	15.69	116
South Fork R.S.	3/31	14	5.9	1.3	2.9						
Timpanogos Cave Camp	3/31	0	0.0	0.6	0.8						
Timpanogos Divide	3/29	83	33.0	7.9	23.1	Not Available		3.41		24.50	
Trial Lake	3/28	74	27.4	9.3	23.9	3/28	3.03	3.76	28.35	23.02	123
JORDAN RIVER & GREAT SALT LAKE											
Bevan's Cabin	3/31	20	8.5	10.2	10.0						
Deseret Peak	3/31	73	30.5	12.5	- -						
Lamb's Canyon #2	3/30	40	18.0	11.6	- -	3/30	4.34	- -	21.24	- -	- -
Middle Canyon	3/31	30	13.0	11.1	13.0	3/31	6.60	3.23b	- -	16.65b	- -
Mill Creek	3/29	57	22.1	14.1	- -						
Mill D South Fork	3/31	46	20.4	14.2	19.4						
Mt. Dell Dam						Not Available		2.27		13.35	
Rocky Basin-Settlement Canyon	3/31	80	35.0	19.0	25.0	3/31	- -	- -	28.66	- -	- -
Silver Lake (Brighton)	3/31	69	28.7	12.1	24.8	Not Available		5.02		27.69	
Snow Bird (Gad Valley)	3/31	107	44.2	17.8	- -						
Vernon Creek	3/25	44	18.2	3.0	8.0b	3/25	8.50	- -	27.00	- -	- -
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	3/27	44	15.4	7.7	12.9	3/27	5.35	2.65	17.58	13.70	128
Bryce Canyon	3/31	10	2.8	0.0	2.7						
Castle Valley	3/27	38	15.9	4.6	12.0	3/27	5.10	2.69	17.10	14.55	118
Duck Creek R.S.	3/31	53	22.8	0.3	12.4	3/31	7.70	3.02b	25.30	17.25b	147
Farview	3/30	27	8.8	1.2	- -						
Harris Flat	3/31	29	15.6	0.0	6.9						
Kimberly Mine	3/27	52	19.5	9.8	15.6	3/27	6.50	4.08b	21.95	17.32b	127
Midway Valley	3/31	79	32.4	7.1	20.8	3/31	6.90	- -	25.80	- -	- -
Panguitch Lake	3/27	20	7.7	0.1	2.9	3/27	2.70	1.24b	10.00	7.19b	139
Rainbow Point		Data Delayed		0.6	- -						
Squaw Springs	3/27	30	10.8	4.1	6.4						
Widtsoe R.S. 3NNE						Not Available					
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	3/28	42	17.0	9.2	11.0	3/28	2.70	2.75	20.97	13.27	158
Farnsworth Lake	3/30	60	23.1	13.1	18.5	3/30	5.75	4.34	21.00	19.10	110
G.B.R.C. Headquarters	3/28	51	21.6	10.3	16.4	3/28	3.35	3.30	24.20	17.60	138
G.B.R.C. Majors						3/31	3.23	1.80	13.10	9.80	134
G.B.R.C. Meadows	3/28	80	32.1	14.3	22.7	3/28	3.60	4.40	29.85	22.40	133
G.B.R.C. Oaks						3/31	3.55	2.20	15.65	11.80	133
Gooseberry R.S.	3/30	33	15.0	9.2	11.2	3/30	5.60	2.89b	17.95	12.95b	139
Mammoth-Cottonwood Creek	3/30	70	29.4	10.1	20.6	3/30	6.10	3.29b	29.73	18.64	159
Middle Fork	3/28	85	30.4	14.4	23.7						
Mt. Baldy R.S.	3/28	88	34.2	12.0	22.5	3/28	4.00	3.42b	26.50	17.28b	153
Mt. Terril Cabin (A)	3/30	117	27.4	- -	- -						
Oak Creek	3/28	48	18.1	9.0	11.5a	3/28	- -	2.18a	22.08	14.64a	151
Pickle Keg Springs	3/28	62	25.9	11.6	16.0b						
Pine Creek	3/27	66	30.2	13.1	14.0	3/27	10.55	4.78	34.95	22.42	156
Ree's Flat	3/28	44	17.3	10.0	12.1	3/28	- -	- -	19.75	- -	- -

+ 1958-1972 period.

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SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
DRAINAGE BASIN and/or SNOW COURSE				Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
LOWER SEVIER RIVER (Cont'd)											
Shingle Mill	3/28	23	9.4	7.2	8.5b	3/28	- -	2.98b	19.05	13.71b	139
Thistle Flat	3/28	54	22.5	12.2	15.8						
BEAVER RIVER											
Beaver Race Track		Data Delayed		0.0	- -						
Beaver Canyon Power House						Not Available					
Big Flat	3/27	84	29.2	8.5	17.2	3/27	10.00	3.49	27.28	16.39	166
Merchant's Valley (Upper)	3/27	55	22.6	5.7	9.9a	3/27	9.42	3.01a	25.20	13.83a	182
Otter Lake	3/27	67	24.1	7.1	13.9						
PAROWAN CREEK											
Birch Crossing	4/3	14	5.0	0.7	5.3a						
Brian Head	3/27	72	25.7	9.7	20.7a						
Ed Ward Flat		Discontinued		3.3	7.0						
Tall Poles	4/3	43	16.5	7.8	14.2a	4/3	7.10	3.18a	19.70	17.89a	110
Yankee Reservoir	3/27	26	10.4	4.9	8.8	3/27	3.30	2.66b	14.50	11.79b	123
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	4/1	0	0.0	0.0	1.1b	4/1	14.30	1.78b	20.75	13.03b	159
Long Flat	4/1	16	7.4	0.5	4.8	4/1	6.00	2.34b	15.60	10.95b	142
COAL CREEK											
Cedar City Golf Course	4/3	0	0.0	0.0	- -						
SUSC Ranch	4/3	27	12.0	0.0	5.4a						
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Ashley-Twin Lakes (A)	Data Delayed			3.8	- -						
Black's Fork G.S.-East Fork	3/27	39	11.0	6.4	9.4b	3/27	2.88	2.44b	13.81	11.87b	116
Black's Fork Junction	3/27	31	9.8	6.4	9.3b	3/27	2.47	2.28b	12.82a	11.53b	111
Buck Pasture (A)	Data Delayed			9.7	- -						
Burnt Creek	3/31	13	4.4	2.0	- -	3/31	2.45	1.48b	7.70	9.01b	85
Dutch John Junction	3/31	5	1.6	- -	- -						
Grizzly Ridge	3/31	31	10.4	3.3	- -	3/31	3.70	2.20b	12.80	13.44b	95
Henry's Fork (A)	Data Delayed			9.5	- -						
Hewinta G.S.	3/27	35	9.3	6.7	9.9	3/27	2.66	2.55b	14.25	12.50b	114
Hickerson Park	3/27	25	6.2	4.8	6.3b	3/27	2.26	1.64a	7.56	8.29a	91
Highline Trail	3/27	41	11.1	6.1	- -	3/27	3.05	- -	13.53	- -	- -
Hole-in-the-Rock	Data Delayed			3.4	6.0						
Hole-in-the-Rock G.S.	Data Delayed			1.0	2.0						
King's Cabin (lower)	3/27	30	9.3	1.2	8.5						
King's Cabin (upper)	3/27	41	12.6	3.2	10.4	3/27	3.65	2.16	12.60	11.26	112
Middle Beaver Creek	Data Delayed			1.4	5.1						
Reynolds Park (A)	Data Delayed			5.7	- -						
Spirit Lake	3/27	37	10.8	7.9	13.0b	3/27	2.90	2.65b	12.27	14.16b	87
Steel Creek Park	3/27	58	17.4	10.1	15.8b						
Trout Creek	3/27	38	10.6	4.6	- -	3/27	3.05	- -	10.87	- -	- -
Windy Park (A)	Data Delayed			3.1	- -						
DUCHESNE RIVER											
Atwood Lake (A)	Data Delayed			4.0	- -						
Brown Duck Ridge	3/28	66	21.4	7.0	- -	3/28	- -	- -	17.98	- -	- -
Chepeta-Whiterocks (A)	Data Delayed			6.7	- -						
Currant Creek	3/29	32	12.1	0.9	8.2b	3/29	3.95	- -	16.98	13.62	125
Daniels-Strawberry Summit	3/29	46	19.8	6.7	14.1	3/29	5.80	3.01	25.93	17.61	147
East Portal	3/30	36	14.0	5.0	10.8	3/30	4.47	2.49b	22.70	18.17b	125
Five Points Lake (A)	Data Delayed			6.1	- -						
Indian Canyon	3/29	48	16.9	3.1	13.1	3/29	5.35	2.03b	18.31	13.28b	138
Jackson Park	3/28	51	15.1	5.1	12.7	3/28	- -	- -	15.33	12.80a	120
Lakefork Basin (A)	Data Delayed			7.6	- -						
Lakefork Mountain	3/28	43	11.8	3.1	11.1	3/28	1.16	2.02	14.76	12.24	121
Lakefork Mountain #2	Not measured			- -	7.4						
Lakefork Mountain #3	3/28	26	7.6	0.0	5.8						
Lightning Lake (A)	Data Delayed			- -							
Mosby Mountain	3/28	43	11.8	2.0	9.6	3/28	3.65	1.67a	14.88	10.83a	137
Paradise Park	3/28	51	15.4	3.2	12.1	3/28	3.25	1.94b	15.12	14.89b	102

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+ 1958-1972 period.

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
						CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average +	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
DUCHESNE RIVER											
Rock Creek Ranch	3/28	24	8.6	0.8	5.9	3/28	1.04	- -	13.32	10.93	122
Strawberry Divide	3/30	59	24.4	8.2	18.9						
PRICE RIVER											
Corral	3/31	32	13.0	0.0	6.8						
Dry Valley Divide	3/29	32	13.5	3.0	9.2						
Gooseberry Reservoir	3/30	64	26.2	9.2	19.0	3/30	6.25	3.18	29.64	18.18	163
Grassy Trail-Left Fork	3/31	42	17.1	0.0	8.2						
Jones Ranch	3/30	15	5.4	0.0	5.2						
Mud Creek	3/30	43	16.3	3.8	13.2	3/30	3.85	2.60b	19.40	14.20b	137
Timberline	3/31	58	20.6	3.3	14.1b						
White River #1	3/29	43	17.7	5.1	12.6	3/29	4.60	2.19	18.30	13.27	138
White River #2	3/29	27	11.4	0.9	7.5						
White River #3	3/29	23	12.8	1.1	6.6						
SAN RAFAEL RIVER											
Buck Flat	3/28	62	24.4	8.3	16.2	3/28	3.00	3.01	25.65	17.30	148
Huntington-Horseshoe	3/30	86	35.8	13.1	23.7b						
Orange Olsen	3/30	11	5.0	0.0	- -	3/30	2.30	1.05a	11.35	8.98a	126
Red Pine Ridge	3/30	52	22.0	8.5	17.5b	3/30	4.70	3.49	26.98	20.31	133
Rush Pond	3/28	55	20.2	5.2	13.6						
Seeley Creek R.S.	3/28	62	24.9	7.2	16.8	3/28	4.00	- -	- -	- -	- -
Stuart R.S.	3/30	27	11.8	0.1	7.2	3/30	- -	- -	17.05	12.16	140
Upper Joe's Valley	3/30	35	15.2	3.2	10.0						
Wrigley Creek	3/28	50	17.2	5.3	10.8						
MUDDY RIVER											
Black's Fork	3/28	55	21.7	5.4	13.2						
Dill's Camp	3/28	51	20.3	4.7	11.8	3/28	4.30	- -	23.03	14.33a	161
FREMONT RIVER											
Black's Flat-U.M. Creek	3/31	39	15.9	5.5	10.4	3/31	4.70	2.81	17.28	12.15	142
Donkey Reservoir	4/1	29	8.2	2.3	7.4b						
Fish Lake	3/31	29	12.8	4.8	6.0	3/31	4.00	1.67	14.50	9.14	159
Johnson Valley	3/31	30	11.8	2.8	5.8b						
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	3/28	40	14.8	2.4	11.8	3/28	4.10	3.02	15.72	18.02	87
Camp Jackson	3/28	44	18.5	1.2	11.2b	3/28	5.85	2.52b	21.75	15.92b	137
LaSal Mountain (lower)	3/29	40	16.2	3.4	9.0						
LaSal Mountain (upper)	3/29	65	24.2	7.0	15.7	3/29	6.03	3.41b	22.30	15.67b	142
Monticello City Park	3/29	0	0.0	0.0	- -						
ESCALANTE RIVER											
Widtsoe-Escalante Summit	NOT MEASURED			0.0	5.9						
Widtsoe-Escalante #2	NOT MEASURED			1.6	8.4						
Widtsoe-Escalante #3	3/31	41	15.6	2.7	10.2b	3/31	4.63	2.23	16.68	12.60	132
VIRGIN RIVER											
Kolob-Crystal	4/1	83	36.1	6.1	- -						
Long Valley Junction	3/31	10	5.0	0.0	2.7						
Webster Flat	4/1	71	32.6	5.1	15.6	4/1	11.40	3.60	32.80	19.27	170

a - Partly Estimated
b - Average of all past record - less than 15 years
+ - 1958-72 15 year average period
(A) - Aerial Marker Reading

+ 1958-1972 period

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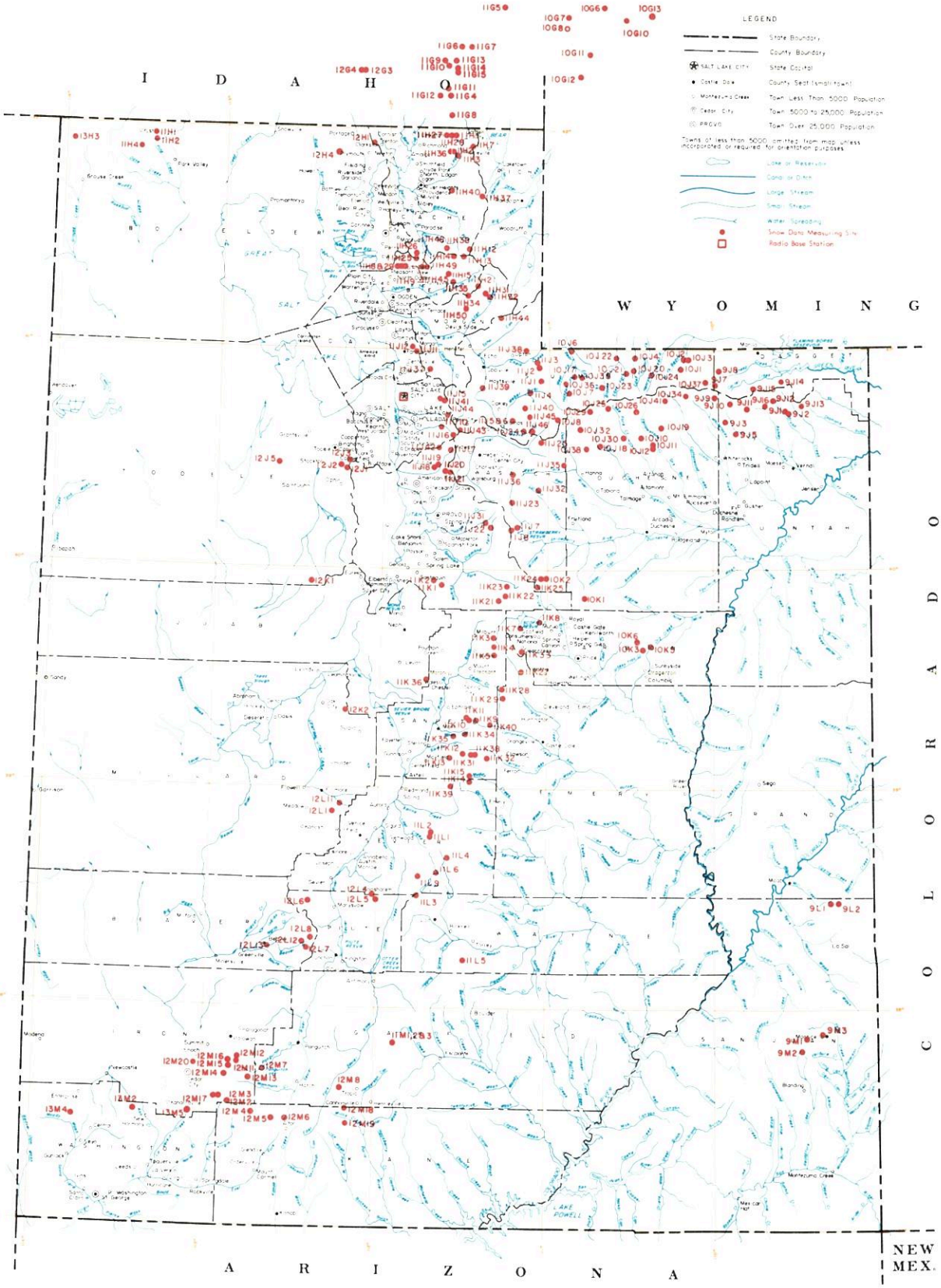

SNOW COURSES AND RELATED DATA MEASURING SITES

UTAH

1978

USGS National Atlas 1:1,000,000 Albers Equal-Area projection (1967) used as source for base map and adapted for SCS use.

SCALE 1:1,000,000

ALBERS EQUAL AREA PROJECTION

INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

NO.	STATE	NAME	SEC	TWP	RGE	ELEV
		UPPER BEAR RIVER (above Harer, Idaho)				
10G11	W	Big Park	7	27N	117W	8,700
10J6P	U	Burts-Miller Ranch	19	3N	10E	7,900
10G7	W	CCC Camp x	9	29N	118W	7,500
10J36p	U	Gold Hill	11	1N	9E	10,000
10J7PST	U	Hayden Fork	25	1N	9E	9,400
10G12	W	Kelly Ranger Station	13	26N	118W	8,200
10G17S	W	LaBarge Guard Station x	7	30N	116W	9,000
10J35p	U	Lily Lake	34	2N	10E	9,300
11H12PST	U	Monte Cristo R.S.	4	8N	4E	8,960
10G10	W	Piney LaBarge x	19	29N	114W	8,820
10G6	W	Poison Meadows x	29	30N	116W	8,500
10G8P	W	Salt River Summit x	32	29N	118W	7,900
10G13MP	W	Snyder Basin x	15	29N	115W	8,400
10J17P	U	Stillwater Camp	32	2N	10E	8,550
		LOWER BEAR RIVER (below Harer, Idaho)				
11H37pST	U	Bug Lake	18	11N	5E	7,950
11H36p	U	Bunchgrass	5	13N	3E	8,400
11G11	I	Christensen Ranch	27	13S	41E	5,600
11H38p	U	Cinnamon Creek	5	8N	3E	7,300
12H1p	U	Clarkston Mountain	29	14N	2W	6,300
11G12	I	Cub River Ranger Station	5	15S	41E	5,400
11G14a	I	Dry Basin	30	13S	42E	7,900
12G4	I	Dry Creek Flat	31	13S	37E	6,350
11G6	I	Emigrant Summit	21	12S	42E	7,350
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6,500
11G8MPST	I	Franklin Basin	1	16S	41E	8,000
11H7MP	U	Garden City Summit	34 & 35	14N	4E	7,600
11H4PST	U	George Peak	4	13N	4W	9,000
11H40p	U	Herd Hollow	4	11N	3E	7,000
11G15a	I	Horseshoe Basin	31	13S	42E	8,000
11H1MP	U	Klondike Narrows	10	14N	3E	7,400
11G13	I	Liberty Springs	7	13S	42E	8,240
11H26	U	Little Bear (lower)	15	8N	1E	6,000
11H25PST	U	Little Bear (upper)	22	8N	1E	6,550
12G3	I	Oxford Mountain	32	13S	37E	6,800
11G5	I	Slug Creek Divide	15	10S	44E	7,225
11H27	U	Steep Hollow #1	7	14N	3E	8,500
11H28	U	Steep Hollow #2	9	14N	3E	7,700
11G9	I	Strawberry Creek	9	13S	41E	5,800
11G10	I	Strawberry Mink Divide	14	13S	41E	6,800
11H2PST	U	Tony Grove Lake	5	13N	3E	7,400
11H3MP	U	Tony Grove Ranger Station	11	13N	3E	6,250
11G4P	I	Willow Flat	2	15S	41E	6,100
		OGDEN RIVER				
11H14M	U	Beaver Creek-Skunk Creek	22	8N	3E	7,150
11H8PST	U	Ben Lomond Peak	3	7N	1W	8,000
11H9PST	U	Ben Lomond (lower)	1	7N	1W	6,000
11H35p	U	Causey Dam	34	7N	3E	5,500
11H29	U	Cutler Creek	3	7N	1W	6,780
11H13MPST	U	Dry Bread Pond	19	8N	4E	8,230
11H34p	U	Guilder's Peak	21	6N	4E	8,050
11H45p	U	Middle Fork Ogden	16	7N	2E	8,420
11H49	U	Powder Mountain Hideaway	6	7N	2E	8,250
11H48	U	Powder Mountain Sundown	1	7N	1E	8,400
11H15P	U	Sagebrush Flat	21	7N	3E	6,300
		WEBER RIVER				
11J24	U	Beaver Creek R.S.	28	2S	7E	7,500
11J1PST	U	Chalk Creek #1	4	1N	8E	9,100
11J2MPST	U	Chalk Creek #2	29	2N	8E	8,200
11J3MP	U	Chalk Creek #3	7	2N	8E	7,500
11J12P	U	Farmington Canyon (lower)	14	3N	1E	6,950
11J11PST	U	Farmington Canyon (upper)	26	3N	1E	8,000
11H44p	U	Francis Canyon	29	5N	6E	7,400
11J45a	U	East Shingle Lake	6	3N	10W	9,800
11J37p	U	Hardscrabble	16	2N	2E	6,500
11H21PST	U	Horse Ridge	1	6N	4E	8,260
11H31P	U	Kilfoil Creek	20	6N	5E	7,300
11H32P	U	Lost Creek	27	6N	5E	6,125
11J43	U	Park City Summit	20	2S	4E	9,300
11J15PST	U	Parley's Canyon Summit	5	1S	3E	7,500
11H50	U	Pine Canyon	6	5N	4E	8,000
11J38p	U	Porcupine	22	3N	7E	8,100
11J6	U	Redden Mine (lower)	1	2S	6E	8,500
11J5P	U	Redden Mine (upper)	1	2S	6E	9,000
11J39p	U	Sergeant Lakes	17	1N	5E	8,400
11J40p	U	Shingle Mill Flat	15	1S	7E	9,900
11J4PST	U	Smith & Morehouse	25	1N	7E	7,600
		PROVO RIVER & UTAH LAKE				
11J46PST	U	Beaver Creek Divide	25	2S	7E	8,000
11J20	U	Camp Altamont	29	4S	3E	7,300
11K21PST	U	Clear Creek Ridge #1	18	11S	6E	9,200
11K22PST	U	Clear Creek Ridge #2	9	11S	6E	8,000
11K23	U	Clear Creek Ridge #3	27	10S	6E	6,600
11J17P	U	Dutchman R.S.	27	3S	3E	7,560
11J22P	U	Hobble Creek Summit	27	7S	5E	7,420
11J36P	U	Lake Creek	36	4S	6E	9,100
11J31	U	Packard Canyon	21	7S	5E	6,400
11K1P	U	Payson R.S.	30	10S	3E	8,050
11K2	U	Rock Bridge	14	10S	2E	6,750
11J25P	U	Soapstone R.S.	9	3S	8E	7,800
11J19	U	South Fork R.S.	24	4S	2E	6,100
11J18P	U	Timpanogos Cave Camp	27	4S	2E	5,500
11J21PST	U	Timpanogos Divide	33	4S	3E	8,140
10J8PST	U	Trial Lake	5	2S	9E	9,800
		JORDAN RIVER & GREAT SALT LAKE				
	U	Bevan's Cabin	24	4S	4W	6,450
	U	Deseret Peak	15	4S	7W	9,250
11J41P	U	Lamb's Canyon #2	21	1S	3E	7,400
12J3P	U	Middle Canyon	8	4S	3W	7,000
11J44	U	Mill Creek	32	1S	3E	6,500
11J10	U	Mill D South Fork	18	2S	3E	8,400
12J1P	U	Rocky Basin-Settlement Canyon	30	4S	3W	8,900
11J16P	U	Silver Lake (Brighton)	35	2S	3E	8,725
11J42	U	Snow Bird (Gad Valley)	18	3S	3E	10,000
12K1PST	U	Vernon Creek	21	10S	5W	7,500
		UPPER SEVIER RIVER (South of Richfield, Utah)				
12L4PST	U	Box Creek	33	26S	2W	9,800
12M8	U	Bryce Canyon	36	36S	4W	8,000
12M13PST	U	Castle Valley	23	36S	8W	9,700
12M4P	U	Duck Creek R.S.	11	38S	8W	8,700
12M18	U	Farview	32	37S	4W	8,200
12M5PST	U	Harris Flat	24	38S	7W	7,700
11L9p	U	High-Top Mountain	36	25S	1E	11,400
12L6P	U	Kimberly Mine	11	27S	5W	9,300
12M2MPST	U	Midway Valley	26	37S	9W	9,800
12M7P	U	Panguitch Lake	4 & 5	36S	7W	8,200
12M19	U	Rainbow Point	29	38S	4W	9,100
12L5	U	Squaw Springs	3	27S	2W	9,300
11M4p	U	Widtsoe R.S.	22	34S	2W	7,600
		LOWER SEVIER RIVER (Including San Pitch River)				
11K13P	U	Beaver Dam	27	19S	3E	8,000
11L1PST	U	Farnsworth Lake	27 & 33	23S	2E	9,900
11K11P	U	G.B.R.C. Headquarters	21	17S	4E	8,700
11K10P	U	G.B.R.C. Meadows	26 & 27	17S	4E	10,000
11L2PST	U	Gooseberry R.S.	22	23S	2E	8,400
11K3MPST	U	Mammoth R.S.-Cottonwood Creek	13	13S	5E	8,800
11K34	U	Middle Fork	16	18S	4E	9,600
11K12P	U	Mt. Baldy R.S.	19	19S	4E	9,500
12K2P	U	Oak Creek	9	17S	3W	7,760
11K39PST	U	Pickle Keg Springs	4	21S	3E	9,600
12L1PS	U	Pine Creek	24	22S	4W	8,700
11K36	U	Rees's Flat	20	15S	2E	7,300
12L11P	U	Shingle Mill	5	22S	3W	6,200
11K35	U	Thistle Flat	23	18S	3E	8,500
		BEAVER RIVER				
12L13	U	Beaver Race Track	23	29S	7W	6,020
12L7PST	U	Big Flat	18	29S	4W	10,290
12L9PST	U	Merchant's Valley (upper)	8 & 9	29S	5W	8,200
12L8	U	Otter Lake	1	29S	5W	9,300
		PAROWAN CREEK				
12M16	U	Birch Crossing	23	35S	9W	8,100
12M14	U	Brian Head	10	36S	9W	10,000
12M12	U	Ed Ward Flat	17	35S	9W	8,300
12M15P	U	Tall Poles	26 & 35	35S	9W	8,800
12M11P	U	Yankee Reservoir	20	35S	8W	8,700
		ENTERPRISE TO NEW HARMONY DRAINAGES				
13M4MP	U	Little Grassy Creek	15	38S	17W	6,100
13M2MPST	U	Long Flat	2	38S	14W	8,000
		COAL CREEK				
12M20	U	Cedar City Golf Course	11	36S	11W	5,800
12M17	U	SUSC Ranch	18	37S	9W	8,200

COLORADO RIVER DRAINAGE

NO.	STATE	NAME	SEC	TWP	RGE	ELEV
		UPPER GREEN RIVER IN UTAH (above Duchesne River)				
9J11aP	U	Ashley Twin Lakes	20	1S	19E	10,500
10J21P	U	Black's Fork G.S.-East Fork	25	2N	12E	9,300
10J22P	U	Black's Fork Junction	33	3N	12E	8,925
10J23a	U	Buck Pasture	14	1N	11E	9,700
9J14P	U	Bumt Creek	4	1N	20E	7,900
9J13P	U	Grizzly Ridge	8	1S	22E	8,500
10J24ap	U	Henry's Fork	29	2N	14E	10,000
10J4P	U	Hewinta G.S.	33	3N	13E	9,500
9J8P	U	Hickerson Park	24	2N	17E	9,100
9J15p	U	Highline Trail	23	1N	19E	10,250
10J1	U	Hole-in-the-Rock	13	2N	15E	9,150
10J3	U	Hole-in-the-Rock G.S.	32	3N	16E	8,300
9J2	U	King's Cabin (lower)	23 & 26	1S	21E	8,600
9J1PST	U	King's Cabin (upper)	22	1S	21E	8,730
10J37p	U	McCoy Park	6	1N	17E	10,680
10J2	U	Middle Beaver Creek	31	3N	16E	8,550
9J10aP	U	Reynolds Park	9	1S	18E	10,400
9J7P	U	Spirit Lake	10	1N	17E	10,300
10J20PST	U	Steel Creek Park	17	2N	13E	9,900
9J16PST	U	Trout Creek	9	1S	20E	9,200
9J12ap	U	Windy Park	1	1S	20E	9,400
		DUCHESNE RIVER				
10J41ap	U	Atwood Lake	13	4N	4W	10,500
10J30PST	U	Brown Duck Ridge	8	2N	6W	10,800
9J9ap	U	Chepeta-Whiterocks Lakes	3	1S	17E	10,300
11J32MPST	U	Currant Creek	31	1S	10W	7,800
11J23MPST	U	Daniels-Strawberry Summit	20	2S	12W	8,000
11J7P	U	East Portal	36	7S	6E	7,560
10J26ap	U	Five Point Lake	28	4N	5W	11,000
10K1PST	U	Indian Canyon	2	11S	10E	9,100
10J19P	U	Jackson Park	23	3N	4W	11,300
10J34p	U	Kidney Lake	28	5N	3W	11,000
10J39P	U	Lake Basin	23	3S	8W	10,800
10J25ap	U	Lakefork Basin	13	4N	7W	11,100
10J10PST	U	Lakefork Mountain	2 & 3	2N	5W	10,200
10J11	U	Lakefork Mountain #2	17	2N	4W	8,900
10J12	U	Lakefork Mountain #3	29	2N	4W	8,100
10J29ap	U	Lightning Lake	24	4N	8W	10,950
9J5PST	U	Mosby Mountain	27	2S	18E	9,500
9J3P	U	Paradise Park	7	3N	1E	10,100
10J18P	U	Rock Creek	21	2N	7W	7,900
10J32p	U	Shadow Lake	28	3N	8W	10,150
11J8PST	U	Strawberry Divide	34 & 35	7S	6E	8,000
11J35P	U	West Fork of the Duchesne	22	1N	19E	10,250
		PRICE RIVER				
10K5M	U	Corral	32	13S	14E	8,200
11K8	U	Dry Valley Divide	20	12S	8E	7,800
10K3M	U	Grassy Trail Creek-Left Fork	2	14S	13E	7,970
11K7	U	Jones Ranch	32	12S	7E	7,600
11K33MP	U	Mud Creek	4	14S	7E	8,300
10K6	U	Timberline	28	13S	13E	9,100
10K2MPST	U	White River #1	11	10S	8E	8,550
11K24	U	White River #2	9	10S	8E	7,600
11K25	U	White River #3	30	10S	8E	7,400
		SAN RAFAEL RIVER				
11K31PST	U	Buck Flat	23	19S	4E	9,400
11K4P	U	Gooseberry Reservoir	25	13S	5E	8,700
11K5	U	Huntington-Horseshoe	12	14S	5E	9,800
11K40P	U	Orange Olsen	31	17S	6E	7,300
11K28PST	U	Red Pine Ridge	5	16S	6E	9,400
11K38	U	Rush Pond	24	19S	4E	9,800
11K9PST	U	Seeley Creek	25	17S	4E	10,000
11K27P	U	Stuart R.S.	8 & 9	15S	7E	7,950
11K29	U	Upper Joe's Valley	21	16S	6E	8,900
11K32	U	Wrigley Creek	27	19S	5E	9,000
		MUDDY RIVER				
11K14	U	Black's Fork	34	20S	4E	9,200
11K15PST	U	Dill's Camp	27	20S	4E	9,200
		FREMONT RIVER				
11L4P	U	Black's Flat-U.M. Creek	33	24S	3E	9,250
11L5	U	Donkey Reservoir	9	30S	4E	9,800
11L3P	U	Fish Lake	35	26S	1E	8,700
11L6	U	Johnson Valley	24	25S	2E	8,850
		SOUTHEASTERN UTAH DRAINAGES				
9M1P	U	Buckboard Flat	36	33S	22E	9,000
9M2P	U	Camp Jackson	22	34S	22E	8,600
9L1	U	LaSal Mountain	5	27S	24E	8,800
9L2P	U	LaSal Mountain (upper)	3	27S	24E	9,400
9M3	U	Monticello Park	25	33S	23E	7,050
		ESCALANTE RIVER				
11M1	U	Widtsoe-Escalante Summit	22	34S	1W	9,500
11M2PST	U	Widtsoe-Escalante #2	22	34S	1W	9,500
11M3PST	U	Widtsoe-Escalante #3	22	34S	1W	9,500
		VIRGIN RIVER				
13M5PST	U	Kolob-Crystal	2	38S	11W	9,250
12M6	U	Long Valley Junction	22	38S	6W	7,500
12M3MPST	U	Webster Flat	20	37S	9W	9,200
		RAFT RIVER				
13H2a	U	Clear Creek Meadows	26	14N	14W	9,050
13H4P	U	George Peak	4	13N	4W	9,000
13H1	U	One Mile Summit	19	14N	14W	7,330
13H3a	U	ViPont	17	14N	17W	7,670

LEGEND
Numbering System (example)

10J7	Snow Course Only
10J7P	Snow Course and Precipitation Gage
10J7M	Snow Course and Soil Moisture Station
10J7A	Snow Course and Aerial Marker
10J7MA	Snow Course, Soil Moisture Station and Aerial Marker
10J7MP	Snow Course, Soil Moisture Station and Precipitation Gage
10J7a	Aerial Marker Only
10J7p	Storage Precipitation Gage Only
10J7PS	Snow Course, Precipitation Gage, Snow Pillow and Temperat.
10J7PST	Snotel Data Site

WATER SUPPLY OUTLOOK FOR UTAH

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

UTAH STATE DEPARTMENT OF NATURAL RESOURCES
-- DIVISION OF WATER RIGHTS

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
MAY 1, 1978

WATER SUPPLY OUTLOOK FOR UTAH

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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SOIL CONSERVATION SERVICE
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In Cooperation with

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SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
4012 FEDERAL BUILDING
SALT LAKE CITY, UTAH 84138

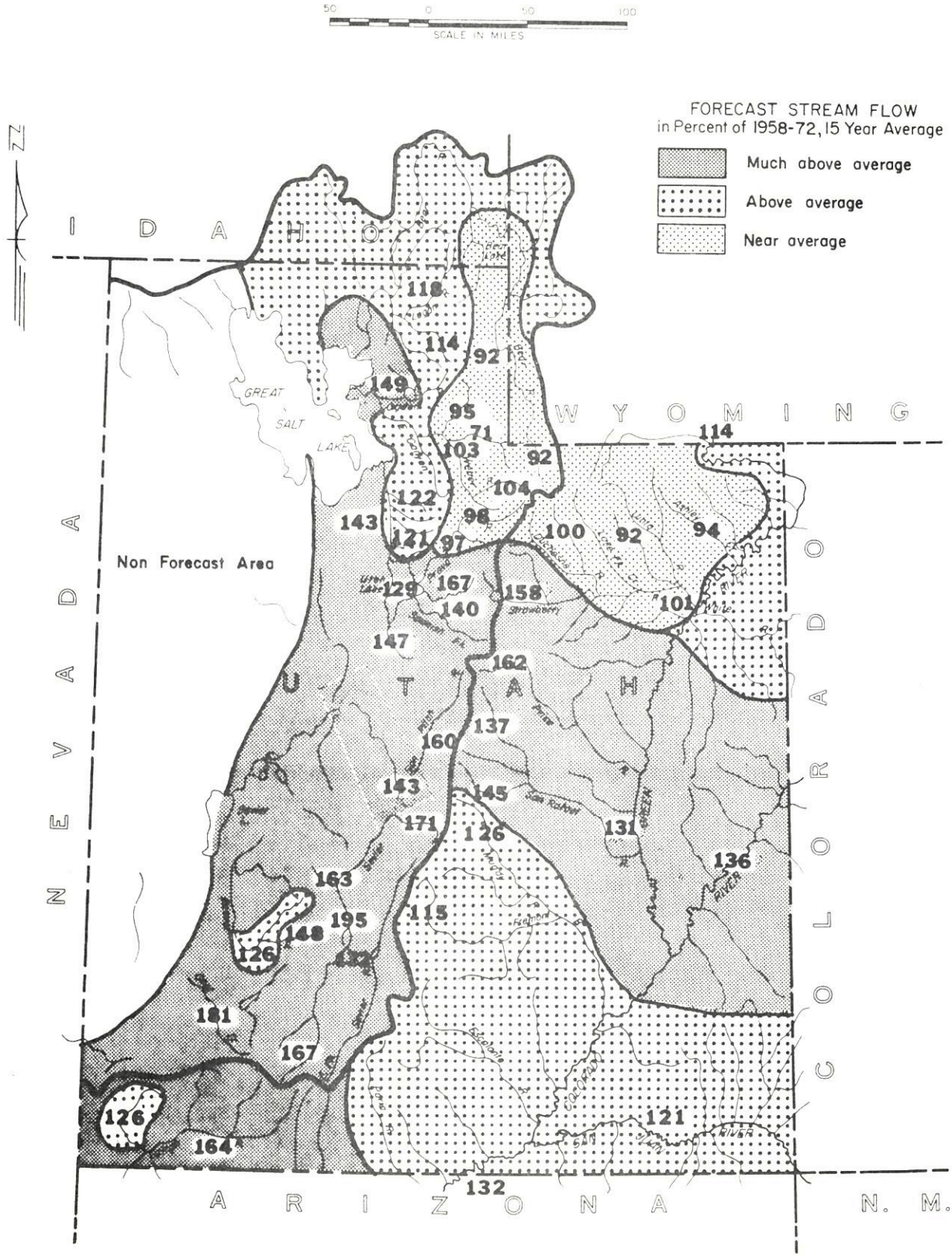
USDA-SCS-PORTLAND, OR. 1977, M7-L-22027B

PROSPECTIVE WATER SUPPLIES

Based on Snow Surveys Made on UTAH and BEAR RIVER WATERSHEDS

May 1, 1978

Approximate Date



U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

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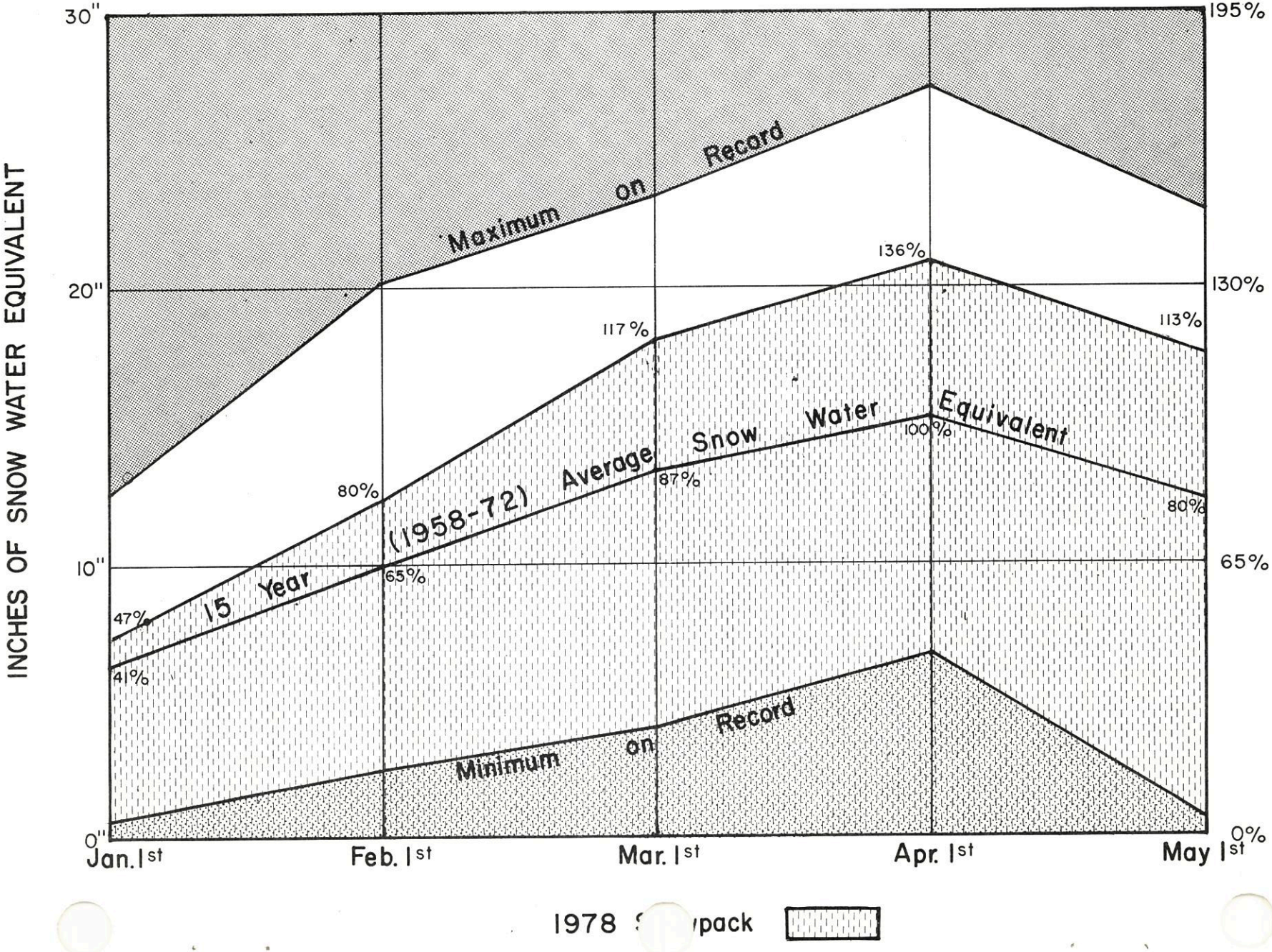
USDA SCS PORTLAND, OREG. 1970 M-2653

UTAH'S WINTER SNOWPACK

Data based on 51 selected snow courses



WATER SUPPLY OUTLOOK

as of
May 1, 1978

* *
* Utah's 1978 water supply otulook ranges from a little below *
* average for reservoir water users on the Sevier and Uintah *
* basins to an average or better than average supply for the *
* remainder of the state. Snow cover ranges 91% of average *
* on Black's Fork to 271% on Virgin River. April precipita- *
* tion varied from as low as one-third of average to two and *
* one-half times average. Reservoir storage is now 101% of *
* the May 1 average. Streamflow forecasts range from 71% *
* of average on Chalk Creek to 281% on the Sevier at Circleville. *
* *

SNOW COVER

Snow water content held up very well at central and southern Utah snow courses. Measurements taken the last week of April show basin averages from 114% of average on Parowan Creek to 271% on the Virgin River. Coal Creek is 216% of average, the Upper Sevier and Beaver Rivers are 174%, and the Lower Sevier 147% of the May 1 average. Fremont River is 128% of average, the Blue Mountains above Monticello and Blanding 127%, and the LaSals 203%.

Strawberry River is 206% of average, Utah Lake tributaries as a whole are 157%, with American Fork about twice average and the Upper Provo near average. Uintah Mountains range from 91% on the north slope to 126% on the Uintah-Whiterocks drainage. Lakefork and Ashley Creeks are 95% and 97% respectively.

Salt Lake front watersheds are 126% of average, Weber River 119%, Tooele Valley and Logan River 123%, the Upper Bear 118%, and Lower Bear 122%. The Ogden River is still 150% of the May 1 average primarily due to a heavy accumulation on the North Fork.

PRECIPITATION

Mountain precipitation during April varied from 28% of average near Joe's Valley Reservoir to 253% at Little Grassy in the south-west corner of the state. Most other areas ranged from 60 to 150% of average with generally near average in the northern third of the state, to below average in the central section, to generally above average in the south-west corner.

SOIL MOISTURE

Soil moisture is still generally below average under the snowpack. Soils below the snow line are now near average with some valley soils reported too wet to farm.

USDA-SCS-PORTLAND, OR 1977 M7-L-22027E

WATER SUPPLY OUTLOOK (continued)

RESERVOIR STORAGE

Storage in 24 of Utah's key irrigation reservoirs now totals 100% of the May 1 average. Good April flows have increased storage to 96% of last year at this time and 69% of useable capacity.

Most reservoirs are expected to fill except Sevier Bridge, Steinaker, Moon Lake, Strawberry, Bear Lake, Piute, Otter Creek and Minersville.

A few other reservoirs may not fill if water users call for storage water prior to peak snowmelt runoff.

STREAMFLOW FORECASTS

Streamflow forecasts continued to improve in southern Utah. Delayed snowmelt increased the forecasts for the May-July period as much as 58% on the Sevier Rvier at Circleville, which is now forecast 281% of average. The Sevier River is forecast 167% at Hatch, 281% at Circleville, 233% at Kingston, 195% below Piute Dam, and 143% at Gunnison. Clear Creek is forecast 163% and Salina Creek 171% of average. Virgin River is forecast 164% and Coal Creek 181% of average.

Beaver River is forecast 148% near Beaver and 126% for Minersville Reservoir Inflow.

Provo River is forecast 98% of average at Hailstone and 97% at Deer Creek Dam. American Fork is forecast 135%, Spanish Fork 140%, Hobble Creek 167%, Payson Creek 147% and total Utah Lake Inflow 129% of the May-July average.

Strawberry Inflow forecast is 158% of average, Strawberry at Duchesne 141%, Currant Creek 136%, Duchesne near Tabiona 90%, Rock Creek 100%, Lakefork 93%, Yellowstone 92%, Uintah 90%, Whiterocks 89%, and Ashley Creek 94%.

Weber River is forecast 104% at Oakley, 106% at Rockport Reservoir, 103% at Coalville, Chalk Creek 71%, East Canyon 129%, Hardscrabble 128%, and Lost Creek 95% of average.

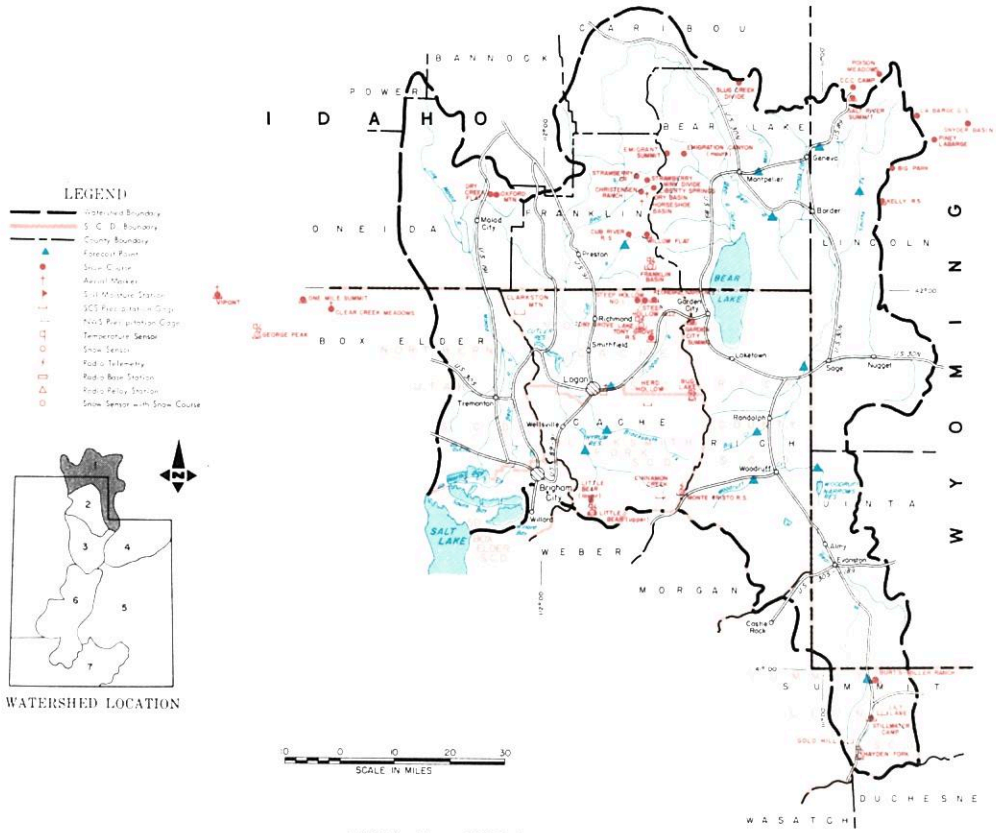
South Fork Ogden is forecast 120% of average and Pineview Inflow 149% of the May-June average.

Bear River forecasts range from 91% on Little Bear to 131% on Thomas Fork. The Bear at Utah-Wyoming Line is forecast 92%, at Randolph 97%, and at Harer 105%. Big Creek is forecast 97%, Woodruff Creek 95%, Smith's Fork 129%, Cub River 108%, Logan River 118%, and Blacksmith's Fork 114% of average.

All water users are expected to have near average to above average water supplies with the possible exception of those depending on reservoir storage alone for those reservoirs that may not have a full supply this season.

WATER SUPPLY OUTLOOK
BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



MAY 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 118% of the May 1 average on the Upper Bear to 123% on Logan River. Lower Bear is 122% of average.

PRECIPITATION at mountain stations varied from 81% of the April average at Monte Cristo R.S. to 125% at Willow Flat.

SOIL MOISTURE is still below average at higher elevations.

RESERVOIR STORAGE is 82% of average in Bear Lake, but near or above average in other smaller reservoirs.

STREAMFLOW FORECASTS range from 91% of average on Little Bear to 131% on Thomas Fork. Bear River forecasts range from 92% at the Utah-Wyoming State Line to 105% at Harer, Idaho. Logan River is forecast 118%, Blacksmith Fork 114%, Cub River 108%, Big Creek 97%, and Woodruff Creek 95%. Adequate water supplies are expected in this area.

M7-OL-22027-1

BEAR RIVER BASIN in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average +
BEAR RIVER					
Bear nr UT-Wyo. State Line	97	92	May-July	35	106
Bear nr Woodruff	100	92	May-July	28	109
Woodruff Crk nr Woodruff, UT	12.5	95	May-July	26	13.1b
Big Creek nr Randolph, Utah	3.3	97	May-July	- -	3.4b
Bear nr Randolph	70	93	May-July	2.3	75
Thomas Fork nr UT-Wy State Ln	42	131	Apr-Sept	3.8	32
Smith's Fork nr Border, Wyo.	150	129	Apr-Sept	26.8	116
Bear at Harer, Idaho 1	250	105	May-Sept	27	237
Logan nr Logan 1	116	118	May-July	26.5	98
Blacksmith Fork nr Hyrum	40	114	May-July	12	35
Little Bear nr Paradise	20	91	May-June	3.4	22
Cub River nr Preston, ID	50	108	May-Sept	- -	46

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction
b - Average of all past record - less than 15 years

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
BEAR RIVER	23	1048	120
UPPER BEAR RIVER	10	1357	118
LOWER BEAR RIVER	13	908	122
LOGAN RIVER	4	1102	123

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average+
BEAR RIVER	Bear Lake	1421.0	847.8	1050.0	1040.0
	Woodruff Narrows	26.5	26.5	8.6	26.3
LITTLE BEAR	Hyrum	15.3	10.9	14.9	14.2
	Porcupine	11.3	11.4	5.0	9.8

+ - 1958-72 15 Year Average Period
e - estimated

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a) Forecast Range	PEAK FLOW (SECOND FEET) (a) Average +
Big Creek nr Randolph	45 - 80	41b
Logan River nr Logan	90 - 1450	984
Woodruff Creek nr Woodruff	200 - 350	240
Little Bear nr Paradise	400 - 500	473

(a) - Maximum mean daily peak flow

+ - 1958-1972 period

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WATER SUPPLY OUTLOOK

WEBER-OGDEN WATERSHEDS in UTAH

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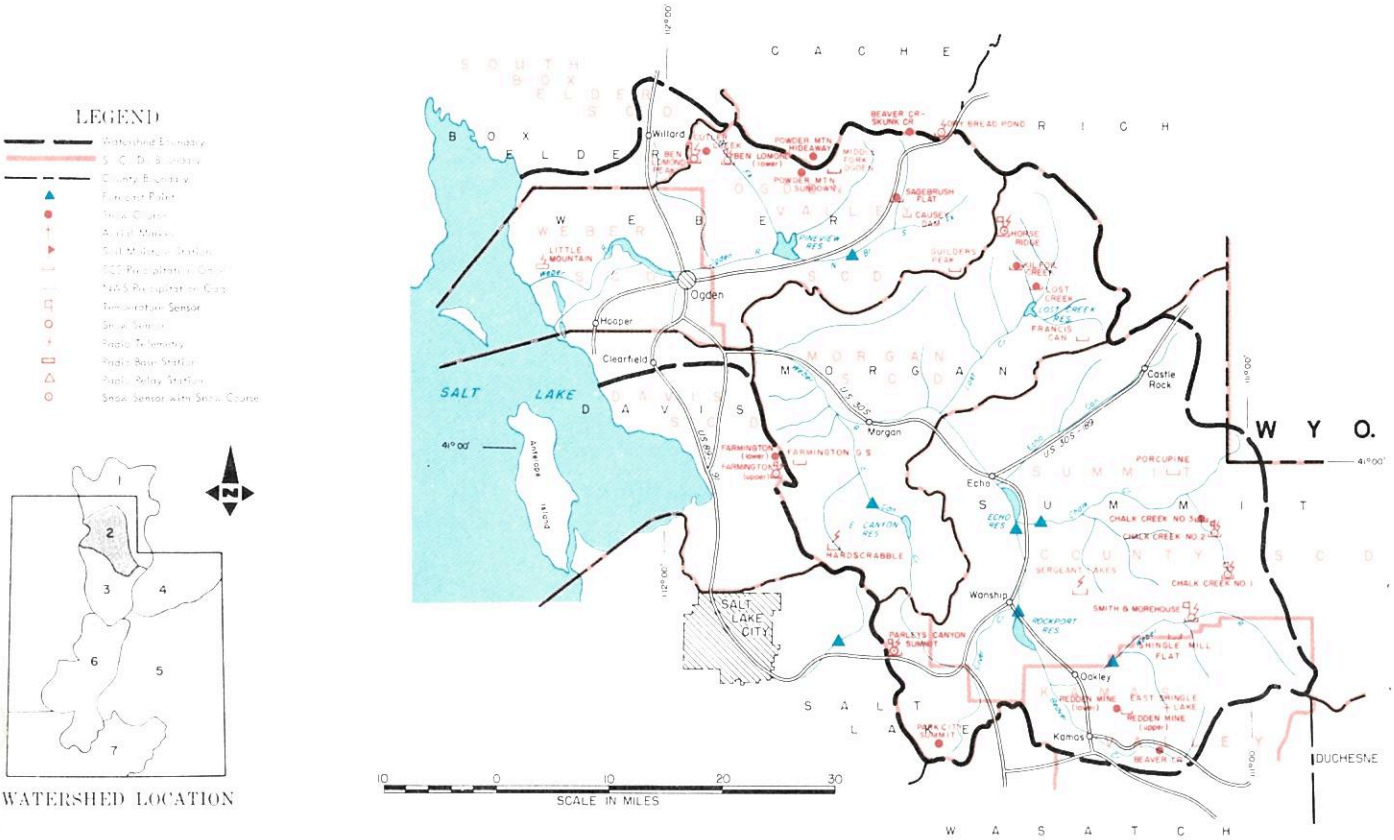
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



MAY 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 150% of the May 1 average on the Ogden River to 119% Weber. The heaviest snow cover is on the North Fork of the Ogden River.

PRECIPITATION at mountain stations ranged from 92% of the April average at Dry Bread Pond to 155% at Parley's Summit.

SOIL MOISTURE is improving as snowmelt begins, but is still below average at higher elevations under the snow.

RESERVOIR STORAGE is above the May 1 average after storms and melt produced good inflow and delayed use. All reservoirs are now expected to fill.

STREAMFLOW FORECASTS range from 71% of the May-June average on Chalk Creek to 149% for Pineview Inflow. The South Fork Ogden is forecast 120% of the May-June average. The North Fork Ogden is expected to produce a heavy portion of Pineview Inflow this season. Weber River is forecast 104% of average at Oakley, 106% at Rockport, and 103% at Coalville. East Canyon is forecast 129% of average, Hardscrabble Creek 128%, and Lost Creek 95% of the May-June average. Farmington Creek is forecast 129% of average. All water users are expected to have adequate water supplies this season.

M7-OL-22027-2

WEBER-OGDEN WATERSHEDS in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year[3]	PAST RECORD THOUSAND ACRE FEET Average †
WEBER-OGDEN RIVERS					
Weber nr Oakley	95	104	May-June	27	91
Rockport Reservoir Inflow[1]	93	106	May-June	- -	88
Chalk Creek at Coalville	18.5	71	May-June	2.6	26
Weber nr Coalville	97	103	May-June	- -	94
Lost Creek nr Croydon, Utah	8.9	95	May-June	1.5	9.4
East Canyon Creek nr Morgan[1]	17.2	129	May-June	10.4	13.3
Hardscrabble Crk nr Porterville	14.5	128	May-June	- -	11.2
South Fork Ogden nr Huntsville	42	120	May-June	5.8	35
Pineview Reservoir Inflow[2]	95	149	May-June	10	64
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	8.4	129	May-July	- -	6.5

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U.S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
b - Average of all past record - less than 15 years

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
OGDEN RIVER	6	- -	150
WEBER RIVER	11	670	119

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average †
OGDEN	Causey	6.9	4.7	4.6	2.5
	Pineview	110.1	94.4	59.3	67.8
WEBER	East Canyon	48.1	41.3	34.8	25.6
	Echo	73.9	64.5	52.6	53.9
	Lost Creek	20.0	16.7	13.9	11.3
	Rockport	60.9	49.8	33.5	30.5
	Willard Bay	193.3	183.9	149.0	161.7

† - 1958-72 15 Year Average Period

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a) Forecast Range	PEAK FLOW (SECOND FEET) (a) Average †
Lost Creek nr Croydon	150 - 250	206b
South Fork Ogden nr Huntsville	650 - 900	697
Chalk Creek nr Coalville	300 - 700	373

(a) - Maximum mean daily peak flow

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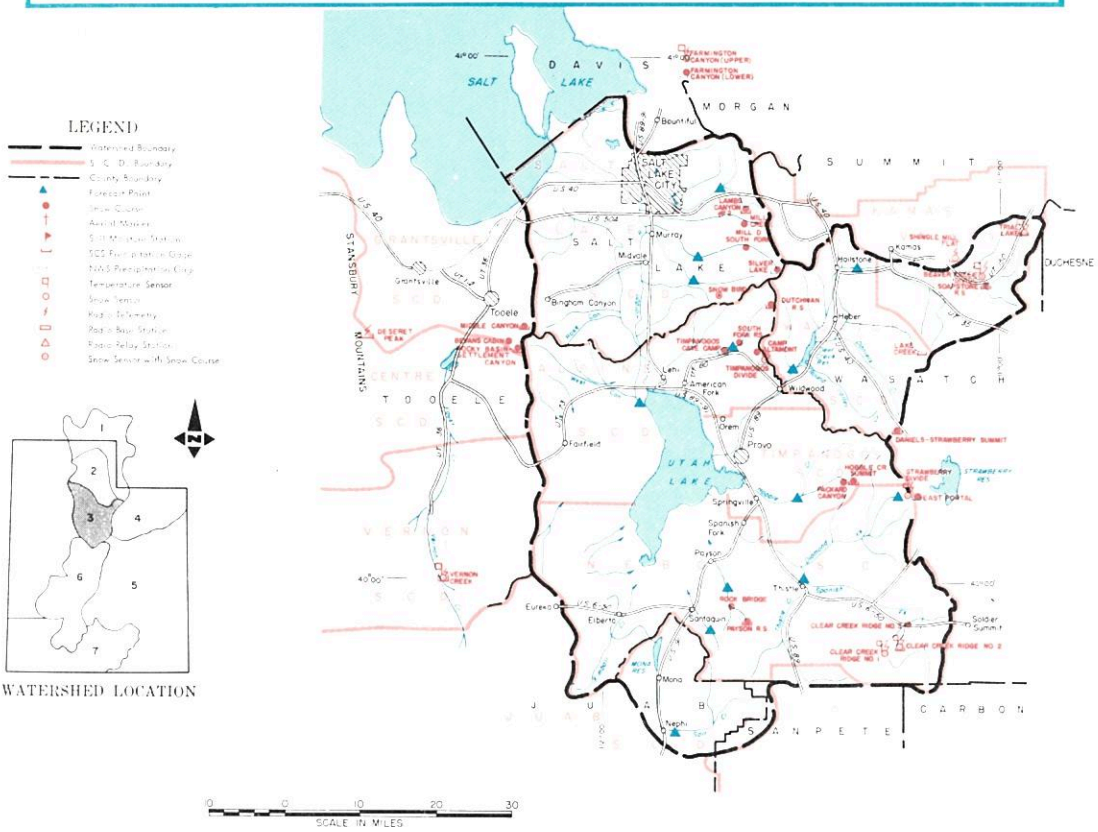
WATER SUPPLY OUTLOOK

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



MAY 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 123% of the May 1 average on Tooele Valley watersheds to 157% on Utah Lake watersheds. American Fork watershed is over 200% of average. The Upper Provo ranges from 118% at Trial Lake to 72% at Soapstone. Watersheds above Salt Lake City are now 126% of the May 1 average.

PRECIPITATION at mountain stations ranged from 46% of the April average at Payson Ranger Station to 187% at Mountain Dell Dam in Parleys Creek.

SOIL MOISTURE is still below average at higher elevations, but has improved as snow melted at medium and lower elevations. Valley soils are generally too wet to plant in many areas.

RESERVOIR STORAGE is above average for May 1. All reservoirs are expected to fill except Strawberry and possibly Deer Creek if heavy use begins prior to peak flow in Provo River.

STREAMFLOW FORECASTS range from 97% of the May-July average for the Provo below Deer Creek Dam to 200% of average for Vernon Creek. Strawberry Inflow is forecast 158% of average and Hobble Creek 167%. Spanish Fork is forecast 140%, Payson Creek 147%, American Fork 135%, and Utah Lake Inflow 129%. Streams along the Salt Lake front are expected to be 121-122% of the May-July average and Settlement Creek above Tooele is forecast 143% of its May-July average.

M7-OL-22027-3

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year[2]	PAST RECORD THOUSAND ACRE FEET Average†
PROVO RIVER AND UTAH LAKE					
Provo nr Hailstone[1]	88	98	May-July	24.8	90
Provo below Deer Creek Dam[1]	85	97	May-July	44.2	88
American Fork nr American Fork	35	135	May-July	6.2	26
Hobble Creek nr Springville	20	167	May-July	- -	12
Strawberry Reservoir Inflow[1]	57	158	May-July	1.7	36
Spanish Fork at Thistle	35	140	May-July	- -	25
Payson Creek nr Payson	7.5	147	May-July	- -	5.1b
Utah Lake Inflow	185	129	May-July	- -	143
JORDAN RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	41	121	May-July	17.2	34
Big Cottonwood nr SLC	39	122	May-July	15.2	32
Parley's Creek nr SLC	11.5	122	May-July	2.7	9.4
TOOELE VALLEY					
Vernon Creek nr Vernon	1.0	200	May-July	0.3	0.5b
Settlement Crk nr Tooele	3.0	143	May-July	- -	2.1b

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction
a - Partly estimated
b - Less than 15 years

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEAR)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
PROVO RIVER & UTAH LAKE	13	318	157
JORDAN RIVER & SALT LAKE	6	- -	126
TOOELE VALLEY	4	689	123

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average†
SPANISH FORK	Strawberry	270.0	164.3	211.1	129.3
UTAH LAKE	Utah Lake	883.9	792.9	777.3	667.7
SETTLEMENT CREEK	Settlement Creek	1.2	0.8	- -	- -
	Vernon Creek	0.6	0.6	- -	- -
PROVO	Deer Creek	149.7	119.4	99.7	103.5

PEAK FLOWS

FORECAST POINT	PEAK FLOW (CFS) (a) Expected Range	PEAK FLOW (CFS) (a) Average †
Hobble Creek nr Springville	250 - 500	210
Spanish Fork nr Thistle	350 - 700	365
Big Cottonwood nr Salt Lake City	450 - 625	310

(a) - Maximum mean daily peak flow

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WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

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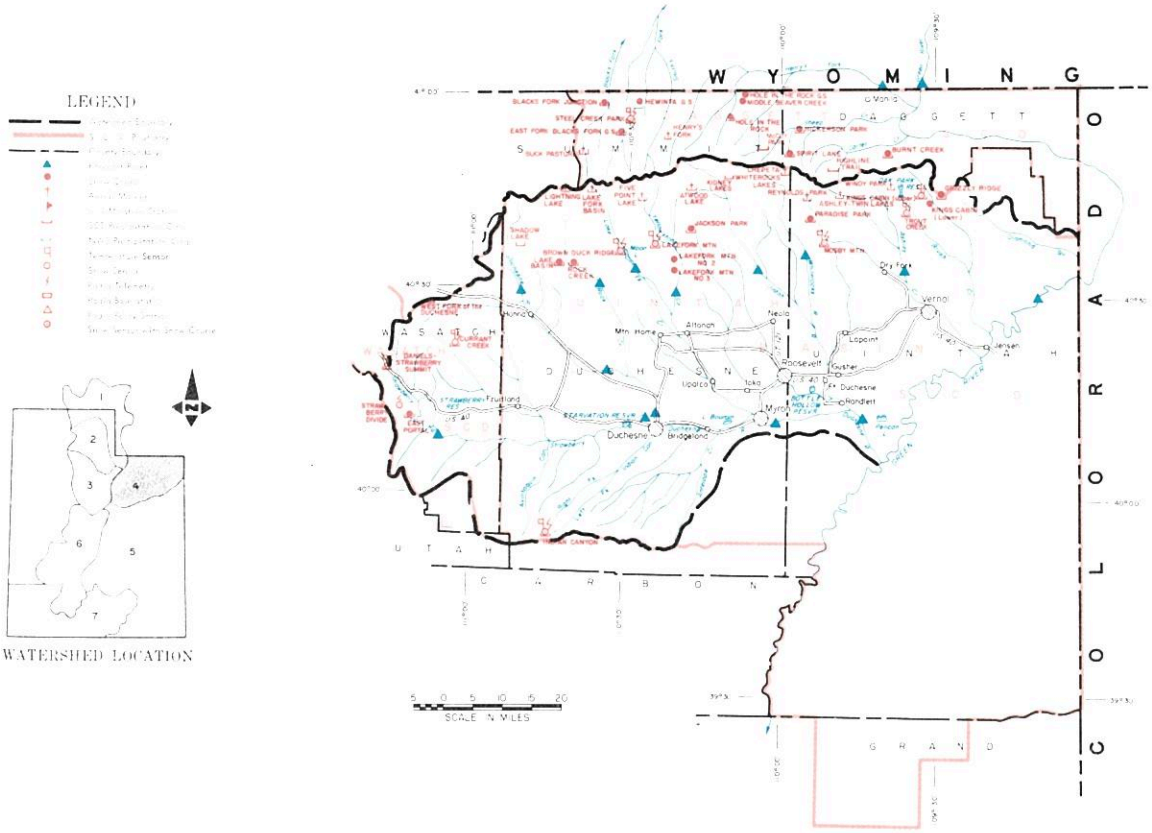
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



MAY 1, 1978

THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

SNOW COVER ranges from 91% of the May 1 average on Blacks Fork watershed to 206% on Strawberry River. Lakefork-Yellowstone watersheds are 95%, Ashley Creek 97%, and Uintah-Whiterocks 126%. High Uinta aerial markers were flown cooperatively with Wildlife Resources and showed from 36 inches depth at Windy Park to 74 inches at Lakefork Basin.

PRECIPITATION at mountain stations varied from 65% of the April average at Hickerson Park to 137% at East Portal.

SOIL MOISTURE is still below average.

RESERVOIR STORAGE is below average in Steinaker and Moon Lake.

STREAMFLOW FORECASTS range from 89% of the May-July average for Whiterocks River to 141% for the Strawberry at Duchesne. Ashley Creek is forecast 94%, Henrys Fork 89%, Blacks Fork 90%, Uintah 90%, Yellowstone 92%, Lakefork 93%, Rock Creek 100%, Duchesne near Tabiona 90%, and Currant Creek 136% of the May-July average. Water users in this area may have a reduced supply in late season this year.

M7-OL-22027-4

UINTAH BASIN and DAGGETT SCD's in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average †
DUCHESNE RIVER					
Duchesne nr Tabiona[1]	85	90	May-July	16	94
Duchesne at Duchesne[1]	148	90	May-July	43	164
Strawberry at Duchesne	65	141	May-July	6.7	46
Rock Creek nr Mtn. Home	90	100	May-July	31	90
Currant Creek nr Fruitland	21.4	136	May-July	- -	15.7
Lakefork below Moon Lake[1]	63	93	May-July	- -	68
Yellowstone nr Altonah	56	92	May-July	26.6	61
Duchesne at Myton[1]	210	108	May-July	6.9	194
Whiterocks nr Whiterock	50	89	May-July	22.1	56
Uintah nr Neola	76	90	May-July	65.7	84
Duchesne at Randlett[1]	220	101	May-July	10.6	218
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork at Manila	40	89	Apr-Sept	3.6	45
Black's Fork at Millburne	80	90	May-July	43	89
Flaming Gorge Inflow[1]	1342	114	Apr-July	233.0	1174
Ashley Creek nr Vernal	45	94	May-July	14.2	48

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Average	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
DUCHESNE RIVER - TOTAL	8	- -	135
LAKEFORK-YELLOWSTONE CREEKS	2	- -	95
STRAWBERRY RIVER	2	- -	206
UINTAH - WHITEROCKS RIVERS	2	- -	126
ASHLEY CREEK	2	- -	97
BLACK'S FORK	4	277	91

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Useable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average†
ASHLEY CREEK	Steinaker	33.3	10.2	18.1	26.2
GREEN RIVER	Flaming Gorge	3749.0	2065.0	2638.0	1629.0
LAKE FORK	Moon Lake	35.8	14.2	10.8	19.0
STRAWBERRY	Starvation	165.3	127.0	165.0	- -
UINTAH	Bottle Hollow	11.3	10.1	10.8	- -

† - 1958-72 15 Year Average Period

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a) Forecast Range	PEAK FLOW (SECOND FEET) (a) Average †
Strawberry at Duchesne	850 - 1550	628
Ashley Creek nr Vernal	600 - 1300	906

(a) - Maximum mean daily peak flow

† - 1958-1972 period

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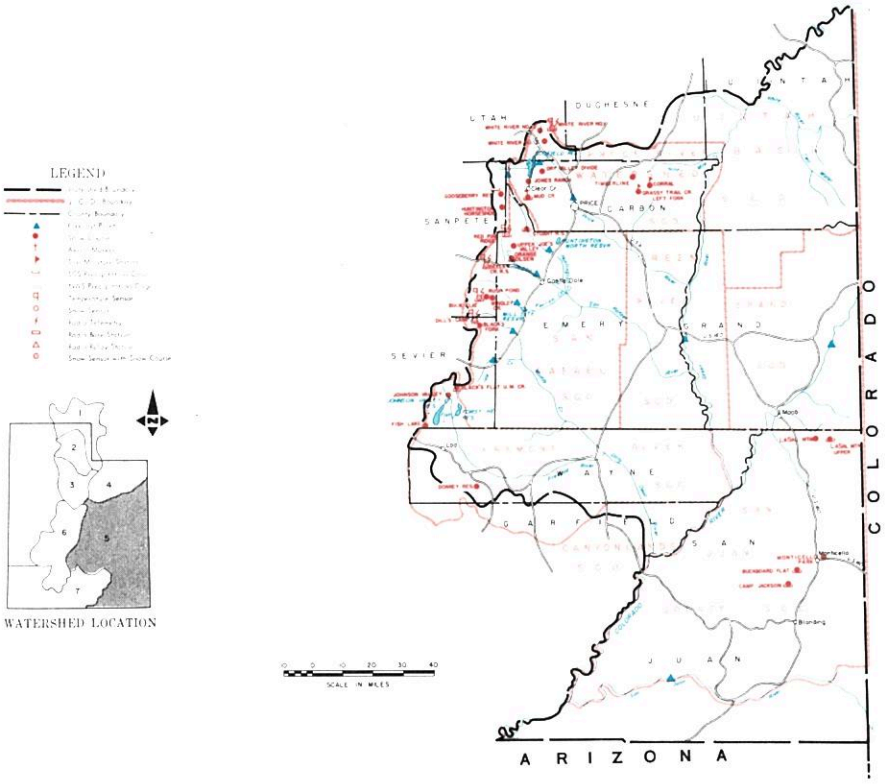
WATER SUPPLY OUTLOOK
CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



MAY 1, 1978

THE WATER SUPPLY IS NEAR AVERAGE

SNOW COVER ranges from 127% of the May 1 average on the Blue Mountains above Monticello, to 203% on the LaSals above Moab. The Fremont River is 128%, Price River 143%, and San Rafael 163%.

PRECIPITATION at mountain stations ranged from 28% at Orange Olsen on Cottonwood Creek to 144% of the April average at LaSal Mountain Upper above Moab.

SOIL MOISTURE is still below average at higher elevations.

RESERVOIR STORAGE is generally above average except in Scofield Reservoir. Whether Scofield will fill this season depends on how rapid the melt progresses and how early reservoir water use begins.

STREAMFLOW FORECASTS for the May-July period now range from 109% on Cottonwood Creek to 184% on Mill Creek above Moab. Scofield Inflow is forecast 162% of average, Price River 160%, Huntington Creek 137%, Ferron Creek 145%, and Muddy Creek 126%. Seven Mile Creek near Fish Lake is forecast 115%, Green River 132%, and San Juan 121%.

M7-OL-22027-5

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average †
PRICE RIVER					
Gooseberry Crk nr Scofield	15.0	158	May-July	1.6	9.5
Scofield Reservoir Inflow	47	162	May-July	4.2	29
Price nr Heiner[1]	83	160	May-July	- -	52b
SAN RAFAEL RIVER					
Huntington Crk nr Huntington	56	137	May-July	8.3	41
Cottonwood Crk nr Orangeville	47	109	May-July	9.8	43b
Ferron Creek nr Ferron	48	145	May-July	15.4	33
MUDDY CREEK					
Muddy Creek nr Emery	20	126	May-July	2.9	15.8
UPPER COLORADO BASIN					
Colorado nr Cisco, Utah	3868	136	Apr-July	534.6	2835
Green at Green River, Utah	3733	131	Apr-July	882.7	2839
Mill Creek nr Moab	7.0	184	May-July	1.0	3.8
Navajo Reservoir Inflow	650	109	Apr-July	- -	597
San Juan nr Bluff, Utah	1036	121	Apr-July	122.8	853
FREMONT RIVER					
Seven Mile Crk nr Fish Lake	6.4	115	May-July	- -	5.6b

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
PRICE RIVER	7	559	143
SAN RAFAEL RIVER	7	- -	163
FREMONT RIVER	3	- -	128
LASAL MOUNTAINS	2	- -	203
BLUE MOUNTAINS	2	- -	127

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Useable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average†
PRICE RIVER	Scofield	65.8	26.1	30.7	34.4
SAN RAFAEL	Huntington North	3.9	3.8	3.8	3.3
	Joe's Valley	54.6	29.2	32.9	34.3
	Mill Site	16.7	3.8	3.6	- -
SAN JUAN	Navajo	1696.0	1029.0	1092.0	- -

† - 1958-72 15 Year Average Period
b - Average of all past record - less than 15 years

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a) Forecast Range	PEAK FLOW (SECOND FEET) (a) Average †
Ferron Creek near Ferron	550 - 850	419
Muddy Creek near Emery	140 - 265	157

(a) - Maximum mean daily peak flow

† - 1958-1972 period

M7-N-22027X

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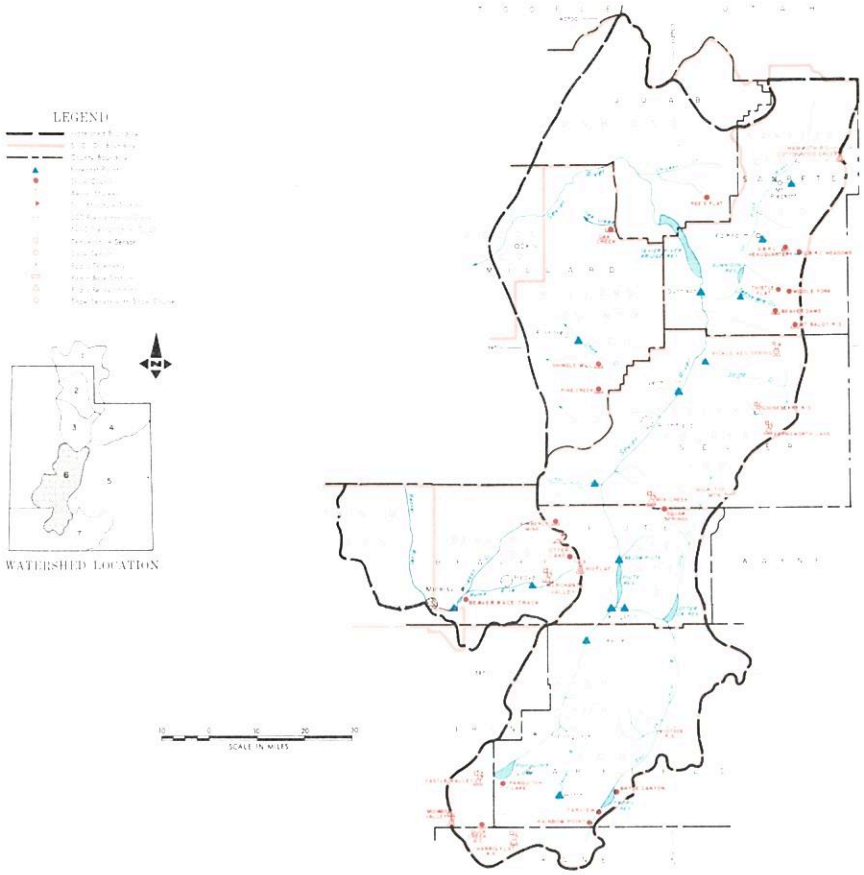
WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



MAY 1, 1978

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE FOR NATURAL FLOW USERS AND NEAR AVERAGE FOR MOST RESERVOIR WATER USERS

SNOW COVER ranges from 147% of the May 1 average on the Lower Sevier to 179% on the East Fork. The South Fork Sevier and Beaver River are 174% of average.

PRECIPITATION at mountain stations varied 60% of the April average at Beaver Dams to better than twice average at Duck Creek.

SOIL MOISTURE is still below average at higher elevations.

RESERVOIR STORAGE is below average with Otter Creek 86% of the May 1 average, Piute 55%, Sevier Bridge 91%, and Gunnison 69%. Minersville and Sevier Bridge are not expected to fill this year and Otter, Piute and Gunnison may not if heavy water use begins prior to the peak snowmelt.

STREAMFLOW FORECASTS for the May-July period now range from 125% of average on North Creeks to 281% for the Sevier near Circleville. The Sevier is forecast 167% at Hatch, 233% at Kingston, 132% for East Fork, 195% below Piute and 143% at Gunnison. Clear Creek is forecast 163%, Salina Creek 171%, Ephraim Creek is forecast 159%, and Pleasant Creek 160% of the May-July average. Chalk Creek is forecast 163%, Beaver River 148%, and Minersville Inflow 126% of the May-June average.

M7-OL-22027-6

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average +
SEVIER RIVER					
Sevier at Hatch	55	167	May-July	7.3	33
Sevier nr Circleville	59	281	May-July	- -	21
Sevier nr Kingston	35	233	May-July	1.5	15
Antimony Crk nr Antimony	7.3	130	May-July	- -	5.6
East Fork Sevier nr Kingston 1	10.8	132	May-July	- -	8.2
Sevier below Piute Dam 1	43	195	May-July	- -	22
Clear Crk nr Sevier (abv Div)	20.6	163	May-July	3.3	12.6
Inflow					
Kingston to Vermillion Dam	63	126	Apr-June	- -	50
Vermillion Dam to Gunnison	55	141	Mar-June	- -	39
Salina Creek at Salina	12.0	171	May-June	0.08	7.0
Sevier nr Gunnison	40	143	May-July	9.9	28
Chalk Creek nr Fillmore	20.0	163	May-July	- -	12.3
Chicken Creek nr Levan	4.8	209	May-July	- -	2.3
Oak Creek nr Oak City	2.0	286	May-July	- -	0.7
SAN PITCH RIVER					
Ephraim Creek nr Ephraim	21.0	159	May-July	- -	13.2b
Pleasant Crk nr Mt. Pleasant	11.2	160	May-July	- -	7.0
BEAVER RIVER					
Beaver nr Beaver	26	148	May-July	4.1	17.6
North Creek (Combined)	12.9	125	May-July	- -	10.3
Minersville Reservoir Inflow 1	5.8	126	May-June	- -	4.6

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
UPPER SEVIER RIVER	8	- -	161
East Fork Sevier	3	- -	179
South Fork Sevier	6	- -	174
LOWER SEVIER	8	- -	147
BEAVER RIVER	2	679	174

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average+
SEVIER RIVER	Gunnison	18.2	9.4	3.2	13.7
	Otter Creek	52.5	32.3	34.1	37.5
	Piute	71.8	24.2	25.1	43.8
	Sevier Bridge	236.0	103.7	113.9	114.1
BEAVER RIVER	Minersville (Rky Fd)	23.3	8.8	9.4	14.0

b - Average of all past record - less than 15 years
+ - 1958-72 15 Year Average Period

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a) Forecast Range	PEAK FLOW (SECOND FEET) (a) Average +
Sevier River at Hatch	700 - 950	418
Sevier River nr Circleville	600 - 800	304
Sevier River nr Kingston	575 - 690	263
Clear Creek nr Sevier	235 - 280	170
Salina Creek nr Salina	260 - 320	235
Beaver River nr Beaver	350 - 500	212

(a) - Maximum mean daily peak flow

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second Ft	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Sevier at Hatch (upper)	100	August 15	July 10
Sevier at Circleville	90	July 25	June 24
Clear Creek nr Sevier-above Div.	5	August 7	July 28
Salina Creek at Salina	25	June 15	June 10

PRIMARY WATER RIGHT FORECASTS (PERCENT OF WATER RIGHT DELIVERED)

RIVER SECTION	Percent Forecast For This Year	Average Percent Delivered During 15 year Period+	Forecast Period
SEVIER RIVER			
Panguitch Valley	100	81	April-Sept
Circle Valley	90	65	April-Sept
Sevier Valley	60	38	April-Sept
Below Vermillion Dam	63	55	April-Sept

The flow below Vermillion - Above 360 cfs is expected to be about 4,400 acre feet.

+ 1958-1972 period

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WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS

MAY 1, 1978

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 114% of the May 1 average on Parowan Creek to 271% on the Virgin River. Coal Creek is 216% of average.

PRECIPITATION at mountain stations varied from 61% of the April average at Tall Poles to 253% at Little Grassy.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS range from 181% of average for the May-July period on Coal Creek to 126% of average on Santa Clara River for the May-June period. Virgin River is forecast 164% of the May-June period. Lake Powell Inflow is forecast 132% of the April-July average. Heavy late snow on the Virgin and Coal Creek is expected to melt fast creating higher than average peak flows. Protective measures should be taken along stream channels.

M7-OL-22027-7

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 2	PAST RECORD THOUSAND ACRE FEET Average +
VIRGIN RIVER					
Virgin nr Virgin	46	164	May-June	- -	28b
Santa Clara nr Pine Valley	3.4	126	May-June	0.7	2.7b
COAL CREEK					
Coal Creek nr Cedar City	23	181	May-July	2.2	12.7
UPPER COLORADO					
Lake Powell Inflow	9100	132	Apr-July	1130.0	6881

2 - Provisional Flows - Subject to correction

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
COAL CREEK	2	- -	216
VIRGIN RIVER	4	- -	271
PAROWAN CREEK	4	- -	114

RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average+
COLORADO	Lake Powell	25002.0	14996.0	18127.0	8370.8
	Blue Mesa	829.5	289.5	366.5	- -

b - Average of all past record - less than 15 years
+ - 1958-72 15 Year Average Period

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average (a) +
Coal Creek nr Cedar City	300 - 650	245
Virgin nr Virgin	1400 - 2000	631b

(a) - Maximum mean daily peak flow

+ 1958-1972 period

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SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
DRAINAGE BASIN and/or SNOW COURSE				Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
GREAT BASIN											
UPPER BEAR RIVER (Above Harer, Idaho)											
Big Park	4/27	63	27.4	1.8	22.4						
Burts-Miller Ranch	4/26	0	0.0	0.0	1.5	4/26	2.68	2.64a	11.62	11.67a	100
CCC Camp	4/27	21	10.2	0.0	9.7						
Hayden Fork	4/26	37	16.9	4.6	15.8	4/26	4.59	4.24a	27.31	24.72a	110
Kelly R.S.	4/27	55	26.4	0.0	18.4						
Monte Cristo R.S.	4/24	60	28.9	0.0	27.0	4/24	4.44	5.46b	32.99	33.08b	100
Poison Meadows	4/27	92	41.0	6.7	32.6						
Salt River Summit	4/27	41	19.4	1.2	13.9	4/27	2.75	2.45	25.00	19.19	130
Snyder Basin	4/27	41	19.6	0.0	15.2						
Stillwater Camp	4/26	12	4.3	0.0	8.4	4/26	2.73	3.09	16.09	15.10	107
LOWER BEAR RIVER (Below Harer, Idaho)											
Bug Lake	4/24	39	18.2	- -	- -						
Christensen Ranch	4/25	0	0.0	- -	- -						
Cliff Canyon	4/25	0	0.0	- -	- -						
Cub River R.S.	4/25	0	0.0	0.0	1.0						
Daniels Creek	4/25	0	0.0	- -	- -						
Dry Basin	4/25	79	39.6	4.6	29.9a						
Dry Creek Flat	4/25	0	0.0	- -	- -						
Emigrant Summit	4/25	61	30.4	2.1	23.6a						
Emigration Canyon	4/25	0	0.0	- -	- -						
Franklin Basin	4/25	68	33.5	3.0	- -						
Garden City Summit	4/24	36	17.5	0.0	17.6	4/24	3.06	3.64b	26.45a	23.36b	113
Horseshoe Basin	4/25	72	37.0	4.1	29.2a						
Klondike Narrows	4/25	40	19.0	0.0	15.3	4/25	4.06	3.83b	31.83	26.45b	120
Liberty Springs	4/25	118	59.1	11.8	44.6a						
Little Bear (lower)	4/24	0	0.0	0.0	0.6						
Little Bear (upper)	4/24	0	0.0	0.0	4.0						
Lower Elkhorn	4/25	0	0.0	- -	- -						
Oxford Mountain	4/25	0	0.0	- -	- -						
Slug Creek Divide	4/27	29	13.8	- -	- -						
Steep Hollow #1	4/25	100	47.6	9.0	39.5b						
Steep Hollow #2	4/25	64	32.6	0.0	23.3						
Strawberry Creek	4/25	0	0.0	- -	- -						
Strawberry Mink Divide	4/25	43	22.4	- -	- -						
Tony Grove Lake	4/25	96	48.8	0.0	- -						
Tony Grove R.S.	4/25	0	0.0	0.0	2.4	4/25	3.42	3.29a	26.37	21.41a	123
Upper Elkhorn	4/25	0	0.0	- -	- -						
Willow Flat	4/25	10	4.2	0.0	4.0a	4/25	5.08	4.06	37.80	29.65	127
Worm Creek	4/25	29	14.3	0.0	- -						
OGDEN RIVER											
Beaver Creek-Skunk Creek	4/24	9	3.6	0.0	4.7						
Ben Lomond Peak	4/24	110	56.9	0.0	35.4						
Ben Lomond (lower)	4/24	26	13.1	0.0	5.3	4/24	6.93	4.59	44.14	29.32	150
Ben Lomond Trail						4/24	6.95	4.86a	- -	28.98a	- -
Causey Dam						4/24	2.95	2.33a	15.88	16.64a	95
Cutler Creek	4/24	73	36.1	0.0	24.9						
Dry Bread Pond	4/24	43	21.4	0.0	16.8	4/24	4.02	4.39b	- -	25.16b	- -
Sagebrush Flat	4/24	0	0.0	0.0	0.0	4/24	2.90	2.56b	18.29	16.88b	108
WEBER RIVER											
Beaver Creek R.S.	4/28	0	0.0	0.0	1.5						
Chalk Creek #1	4/26	57	24.4	6.6	24.2						
Chalk Creek #2	4/26	26	10.6	2.2	13.5b						
Chalk Creek #3	4/26	0	0.0	0.0	2.2	4/26	4.45	3.47b	18.05	15.59b	116
East Shingle Lake (A)	5/1	84	35.3	2.4	- -						
Farmington Canyon (lower)	4/24	64	29.9	5.9	21.2b	4/24	7.97	5.67	42.00	32.49	129
Farmington Canyon (upper)	4/24	96	44.1	11.4	31.6b						
Farmington G.S.						4/24	9.05	- -	45.68	- -	- -
Horse Ridge	4/24	44	21.6	0.0	22.2b	4/24	4.67	4.44a	31.23	30.66a	102
Killfoil Creek	4/24	22	9.2	0.0	10.9b						
Lost Creek Reservoir	4/24	0	0.0	0.0	- -	4/24	2.56	- -	15.05	- -	- -
Parley's Canyon Summit	4/28	44	20.8	0.0	12.2	4/28	7.29	4.71	34.56	26.73	129
Redden Mine (lower)	4/28	40	17.7	1.5	17.5						
Redden Mine (upper)						4/28	5.18	5.04a	30.93	25.01a	124

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+ 1958-1972 period.

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
DRAINAGE BASIN and/or SNOW COURSE				Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
WEBER RIVER (cont'd)											
Sergeant Lake (A)	5/1	48	20.6	0.0	- -						
Smith & Morehouse	4/26	14	6.5	0.0	7.8b	4/26	4.60	3.94	26.40	22.03	112
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide	4/28	8	4.0	0.0	- -						
Camp Altamont	4/25	33	17.6	0.0	6.1						
Clear Creek Ridge #1	4/25	44	22.8	0.0	16.6						
Clear Creek Ridge #2	4/25	27	13.2	0.0	9.1	4/25	2.20	3.25	22.10	18.55	119
Clear Creek Ridge #3	4/25	0	0.0	0.0	0.2						
Dutchman R.S.	4/25	42	22.0	0.0	8.0	4/25	4.00	3.93	36.90	24.88	148
Hobble Creek Summit	4/25	28	13.5	0.0	6.5	4/25	3.35	3.05	26.25	19.71	133
Packard Canyon	4/25	0	0.0	0.0	0.8						
Payson R.S.	4/25	39	21.5	0.0	12.6	4/25	1.60	3.48	25.10	21.17	119
Rock Bridge	4/25	0	0.0	0.0	3.3						
Soapstone R.S.	4/28	10	4.7	0.0	6.5	4/28	3.87	3.24	22.05	18.93	116
South Fork R.S.	4/25	0	0.0	0.0	0.1b						
Timpanogos Cave Camp	4/25	0	0.0	0.0	- -						
Timpanogos Divide	4/25	69	35.6	0.0	20.0	5/1	5.75	4.07	43.37	28.57	152
Trial Lake	4/28	73	30.4	5.7	25.7	4/28	5.62	4.42	33.97	27.44	124
JORDAN RIVER & GREAT SALT LAKE											
Bevan's Cabin	4/29	0	0.0	0.0	3.4						
Deseret Peak	5/2	76	36.7	0.0	- -						
Lamb's Canyon #2	4/28	26	11.5	0.0	- -	4/28	6.48	- -	27.72	- -	- -
Middle Canyon	4/29	11	4.9	0.0	7.6	4/29	6.00	4.16b	- -	20.81b	- -
Mill Creek	5/1	52	23.2	7.0	- -						
Mill D South Fork	4/27	35	16.8	0.0	14.4						
Mt. Dell Dam						5/1	5.42	2.90	20.37	16.25	125
Rocky Basin-Settlement Canyon	5/2	82	38.2	7.2	26.9	5/2	6.97	5.25a	35.63	31.60a	113
Silver Lake (Brighton)	4/27	70	36.5	0.1	26.9	DATA	DELAYED	5.06		32.75	
Snow Bird (Gad Valley)	4/29	112	51.8	9.6	- -						
Vernon Creek	4/30	14	6.5	0.0	2.3a	4/30	5.70	- -	32.70	- -	- -
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	4/28	28	13.6	0.0	11.1	4/28	2.45	2.71	20.03	16.41	122
Bryce Canyon	5/1	0	0.0	0.0	- -						
Castle Valley	4/28	18	8.5	0.0	5.7	4/28	4.30	2.97	21.40	17.52	122
Duck Creek R.S.	4/28	36	18.6	0.0	6.1	4/28	6.86e	3.12	32.16a	20.37	182
Farview		NOT MEASURED		0.0	- -						
Harris Flat	4/28	6	2.4	0.0	1.4						
Kimberly Mine	4/28	37	17.4	0.5	13.8	4/28	4.00	3.69b	25.95	21.01b	124
Midway Valley	4/28	76	36.2	0.0	20.9	4/28	6.70	- -	32.50	- -	- -
Panguitch Lake	4/28	1	0.4	0.0	0.2	5/2	3.40	1.22	13.40	8.41	159
Rainbow Point		NOT MEASURED		0.0	- -						
Squaw Springs	4/28	7	3.3	0.0	3.3						
Widtsoe R.S. 3NNE						DATA	DELAYED	- -	- -		
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	4/27	20	8.7	0.0	6.5	4/27	1.70	2.81	22.67	16.08	141
Farnsworth Lake	4/28	53	24.0	8.8	20.4	4/28	2.80	4.33	23.80	23.43	102
G.B.R.C. Headquarters	4/27	41	20.3	0.0	15.4	4/27	2.70	4.00	26.90	21.60	124
G.B.R.C. Majors						5/1	2.52	2.20	15.62	12.00	130
G.B.R.C. Meadows	4/27	77	35.6	6.5	24.6	4/27		4.80		27.20	
G.B.R.C. Oaks						5/1	3.07	2.80	18.72	14.60	128
Gooseberry R.S.	4/28	17	9.0	0.0	8.1	4/28	2.30	3.07b	20.25	16.02b	126
Mammoth-Cottonwood Creek	4/26	60	30.3	0.0	18.2b	4/26	3.80	3.55b	33.53	22.19b	151
Middle Fork	4/27	81	31.4	12.8	- -						
Mt. Baldy R.S.		NOT MEASURED		3.2	24.2			3.56b		20.84b	
Mt. Terril cabin (A)	4/27	69	30.4	- -	- -						
Oak Creek		NOT MEASURED		0.0	0 0			2.69a		17.33a	
Pickle Keg Springs	4/26	43	22.2	0.0	14.4b						
Pine Creek	4/28	50	24.4	0.0	10.8	4/28	5.50	5.28	40.54	27.70	146
Ree's Flat	4/27	24	11.4	0.0	- -	4/27	3.00	- -	22.75	- -	- -
Shingle Mill		DATA DELAYED		0.0	1.9b			3.56b		17.27b	
Thistle Flat	4/27	42	19.8	1.4	- -						

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+ 1958-1972 period.

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
DRAINAGE BASIN and/or SNOW COURSE				Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
BEAVER RIVER											
Beaver Race Track	5/1	0	0.0	0.0	- -						
Beaver Canyon Power House		DATA DELAYED									
Big Flat	4/28	76	30.2	5.6	18.6	4/28	3.10	3.34b	30.38	19.73b	154
Merchant's Valley (Upper)	4/28	29	13.2	0.0	- -	4/28	3.15	3.18a	28.35	17.01a	167
Otter Lake	4/28	52	24.8	2.5	13.0						
PAROWAN CREEK											
Birch Crossing	4/25	0	0.0	0.0	1.1b						
Brian Head	4/25	65	29.2	1.9	22.6a						
Tall Poles	4/25	31	14.8	0.0	12.5b	4/25	2.55	4.21a	22.25	22.10a	101
Yankee Reservoir	4/28	10	3.6	0.0	5.7	4/28	3.70	2.55	18.20	14.34	127
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	4/25	0	0.0	0.0	0.0	4/25	4.30	1.70b	25.05	14.73b	170
Long Flat	4/28	0	0.0	0.0	0.4b	4/28	3.20	2.06b	18.80	13.01b	144
COAL CREEK											
Cedar City Golf Course	5/1	0	0.0	0.0	- -						
SUSC Ranch	4/25	7	3.8	0.0	- -						
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Ashley-Twin Lakes (A)	5/1	56	20.2	1.2	- -						
Black's Fork G.S.-East Fork	4/26	26	9.8	2.5	9.8b	4/26	2.52	3.24b	16.33	15.11b	108
Black's Fork Junction	4/26	16	6.4	1.2	8.2b	4/26	2.56	2.94b	15.38a	14.47b	106
Buck Pasture (A)	5/1	48	18.2	2.4	- -						
Burnt Creek	4/27	5	0.6	0.0	- -	4/27	3.03	3.06b	10.73	12.07b	89
Dutch John Junction		NOT MEASURED		- -	- -						
Grizzly Ridge	4/27	25	8.1	0.0	- -	4/27	3.92	3.25b	16.72	16.69b	100
Henry's Fork (A)	5/1	43	16.3	3.2	- -						
Hewinta G.S.	4/26	22	8.3	2.9	10.2b	4/26	2.56	3.39b	16.81	15.89b	106
Hickerson Park	4/28	16	3.9	2.2	5.2b	4/28	2.40	3.71a	9.96	12.00a	83
Highline Trail		NOT MEASURED		6.9							
King's Cabin (lower)	4/26	12	4.9	0.0	6.1						
King's Cabin (upper)	4/26	25	10.2	0.0	9.4	4/26	2.52	2.95	15.12	14.21	106
Reynolds Park (A)	5/1	56	17.0	0.8	- -						
Spirit Lake	4/28	39	12.1	5.5	15.4b	4/28	3.72	4.54b	15.99	18.70b	86
Steel Creek Park	4/26	57	18.5	8.9	18.9b						
Trout Creek	4/26	26	9.4	0.0	- -	4/26	2.55	- -	13.42	- -	- -
Windy Park (A)	5/1	36	13.0	0.0	- -						
DUCHESNE RIVER											
Atwood Lake (A)	5/1	45	15.3	1.6	- -						
Brown Duck Ridge	4/28	68	23.6	4.6	- -	4/28	3.75	- -	21.73	- -	- -
Chepeta-Whiterocks (A)	5/1	47	15.5	1.2	- -						
Currant Creek	4/25	7	3.4	0.0	1.6b	4/25	2.40	2.28b	19.38	15.90b	122
Daniels-Strawberry Summit	4/25	31	16.2	0.0	7.9	4/25	3.25	2.92	29.18	20.53	142
East Portal	5/1	14	5.5	0.0	- -	5/1	4.38	3.19b	27.08	21.36b	127
Five Points Lake (A)	5/1	60	19.8	1.2	- -						
Indian Canyon	4/25	33	15.0	0.0	10.2b	4/25	1.80	2.38b	20.11	15.66b	128
Jackson Park	4/28	46	15.8	2.2	- -	4/28	3.07	- -	18.40	- -	- -
Lakefork Basin (A)	5/1	74	24.4	2.4	- -						
Lakefork Mountain	4/28	37	12.3	0.0	11.9	4/28	3.24	2.99	18.00	15.23	118
Lakefork Mountain #3	4/28	1	0.2	0.0	1.2						
Lightning Lake (A)	5/1	75e	24.8e	4.8	- -						
Mosby Mountain	4/28	39	13.0	0.0	9.6	4/28	3.49	2.43	18.37	13.26a	138
Paradise Park	4/28	49	16.2	0.0	13.6	4/28	4.00	3.17	19.12	18.06	106
Rock Creek	4/28	0	0.0	0.0	0.6b	4/28	2.91	2.27	16.23	13.20	123
Strawberry Divide	5/1	48	20.1	0.0	- -						
PRICE RIVER											
Dry Valley Divide	4/25	4	1.8	0.0	3.8						
Gooseberry Reservoir	4/26	50	27.0	0.0	17.0	4/26	3.90	3.40	33.54	21.58	155
Jones Ranch	4/26	0	0.0	0.0	0.1b						
Mud Creek	4/26	25	12.7	0.0	7.7	4/26	2.20	2.70	21.60	16.90	128

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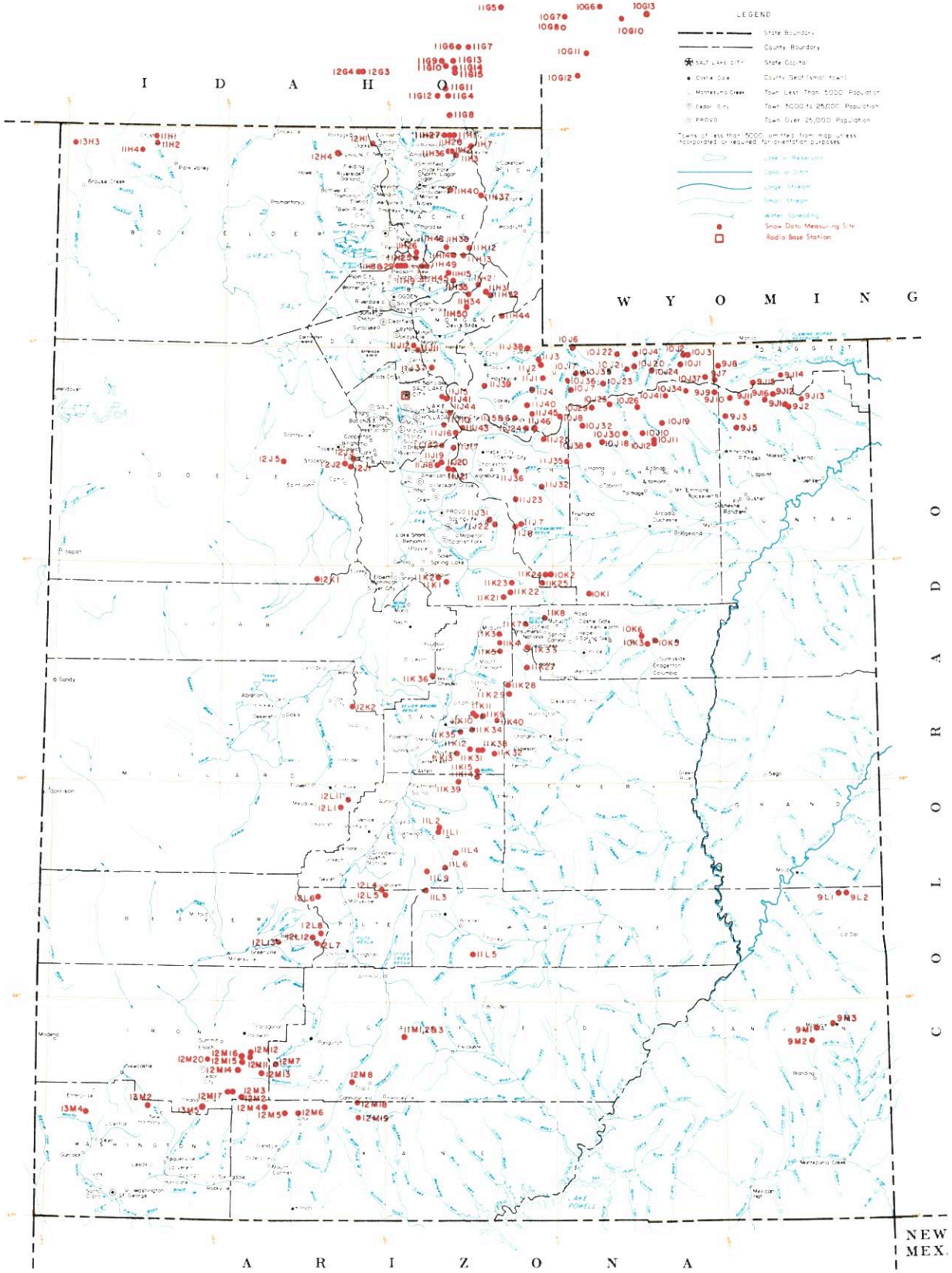
+ 1958-1972 period

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
				Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
PRICE RIVER (cont'd)											
White River #1	4/25	28	14.4	0.0	9.1	4/25	1.60	2.61	19.90	15.88	125
White River #2	4/25	0	0.0	0.0	1.1						
White River #3	4/25	0	0.0	0.0	0.3						
SAN RAFAEL RIVER											
Buck Flat	4/26	54	26.4	0.0	15.4	4/26	2.40	2.98	28.05	20.28	138
Huntington-Horseshoe	4/26	84	39.3	5.1	- -						
Orange Olsen	4/26	0	0.0	0.0	- -	4/26	.30	1.08a	11.65	10.06a	116
Red Pine Ridge	4/26	41	21.1	0.0	14.6	4/26	2.30	3.50	29.28	23.81	123
Rush Pond	4/26	41	20.8	0.0	10.7						
Seeley Creek R.S.	4/27	55	24.8	1.4	17.2	4/27	3.90	- -	- -	- -	- -
Stuart R.S.	4/26	2	1.8	0.0	1.4	4/26	1.25	2.16	18.30	14.32	128
Upper Joe's Valley	4/26	19	9.5	0.0	5.5b						
Wrigley Creek	4/26	30	13.5	0.0	7.6						
MUDDY RIVER											
Black's Fork	4/26	41	21.3	0.0	- -						
Dill's Camp	4/26	39	20.1	0.0	- -	4/26	2.00	- -	25.03	- -	- -
FREMONT RIVER											
Black's Flat-U.M. Creek	4/28	25	11.4	0.0	7.8	4/28	1.50	2.32	18.78	14.47	130
Fish Lake	4/28	0	0.0	0.0	3.2	4/28	1.00	1.86	15.50	11.00	141
Johnson Valley	4/28	13	6.2	0.0	2.8						
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	4/28	11	4.6	0.0	5.8	4/28	1.80	2.51	17.52	20.53	85
Camp Jackson	4/28	18	8.5	0.0	4.5b	4/28	2.01	2.13b	23.76	18.05b	132
LaSal Mountain (lower)	4/29	14	6.1	0.0	3.1b						
LaSal Mountain (upper)	4/29	52	23.9	0.0	11.7b	4/29	3.72	2.59b	26.02	18.26b	142
Monticello City Park	5/1	0	0.0	0.0	- -						
ESCALANTE RIVER											
Widtsoe-Escalante Summit		NOT MEASURED		0.0	2.8						
Widtsoe-Escalante #2		NOT MEASURED		0.0	6.1						
Widtsoe-Escalante #3	4/28	28	12.8	0.0	7.8b	4/28	2.20	2.84	18.88	15.44	122
VIRGIN RIVER											
Kolob-Crystal	4/28	72	37.0	0.0	- -						
Long Valley Junction	5/2	0	0.0	0.0	0.1b						
Webster Flat	4/28	54	33.6	0.0	11.4	4/28	3.40	3.81	36.20	23.08	157

a - Partly Estimated
b - Average of all past record - less than 15 years
+ - 1958-72 15 year average period
(A) - Aerial Marker Reading, Measured Cooperatively with Dept. of Wildlife Resources
e - estimated

+ 1958-1972 period.



SNOW COURSES AND RELATED DATA MEASURING SITES

UTAH

1978

SCALE 1:1,000,000

ALBERS EQUAL AREA PROJECTION

USGS National Atlas 1:1,000,000 Albers Equal-Area projection (1967) used as source for base map and adapted for SCS use.

INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

UPPER BEAR RIVER (above Harer, Idaho)

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
10G11	W	Big Park	7	27N	117W	8,700
10J6P	U	Burts-Miller Ranch	19	3N	10E	7,900
10G7	W	CCC Camp x	9	29N	118W	7,500
10J36p	U	Gold Hill	11	1N	9E	10,000
10J7PST	U	Hayden Fork	25	1N	9E	9,400
10G12	W	Kelly Ranger Station	13	26N	118W	8,200
10G17S	W	LaBarge Guard Station x	7	30N	116W	9,000
10J35o	U	Lily Lake	34	2N	10E	9,300
11H12PST	U	Monte Cristo R.S.	4	8N	4E	8,960
10G10	W	Piney LaBarge x	19	29N	114W	8,820
10G6	W	Poison Meadows x	29	30N	116W	8,500
10G8P	W	Salt River Summit x	32	29N	118W	7,900
10G13MP	W	Snyder Basin x	15	29N	115W	8,400
10J17P	U	Stillwater Camp	32	2N	10E	8,550

LOWER BEAR RIVER (below Harer, Idaho)

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
11H37pST	U	Bug Lake	18	11N	5E	7,950
11H36p	U	Bunchgrass	5	13N	3E	8,400
11G11	I	Christensen Ranch	27	13S	41E	5,600
11H38p	U	Cinnamon Creek	5	8N	3E	7,300
12H1p	U	Clarkston Mountain	29	14N	2W	6,300
11G12	I	Cub River Ranger Station	5	15S	41E	5,400
11G14a	I	Dry Basin	30	13S	42E	7,900
12G4	I	Dry Creek Flat	31	13S	37E	6,350
11G6	I	Emigrant Summit	21	12S	42E	7,350
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6,500
11G8MPST	I	Franklin Basin	1	16S	41E	8,000
11H7MP	U	Garden City Summit	34 & 35	14N	4E	7,600
13H4PST	U	George Peak	4	13N	4W	9,000
11H40p	U	Herd Hollow	4	11N	3E	7,000
11G15a	I	Horseshoe Basin	31	13S	42E	8,000
11H1MP	U	Klondike Narrows	10	14N	3E	7,400
11G13	I	Liberty Springs	7	13S	42E	8,240
11H26	U	Little Bear (lower)	15	8N	1E	6,000
11H25PST	U	Little Bear (upper)	22	8N	1E	6,550
12G3	I	Oxford Mountain	32	13S	37E	6,800
11G5	I	Slug Creek Divide	15	10S	44E	7,225
11H27	U	Steep Hollow #1	7	14N	3E	8,500
11H28	U	Steep Hollow #2	9	14N	3E	7,700
11G9	I	Strawberry Creek	9	13S	41E	5,800
11G10	I	Strawberry Mink Divide	14	13S	41E	6,800
11H2PST	U	Tony Grove Lake	5	13N	3E	7,400
11H3MP	U	Tony Grove Ranger Station	11	13N	3E	6,250
11G4P	I	Willow Flat	2	15S	41E	6,100

OGDEN RIVER

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
11H14M	U	Beaver Creek-Skunk Creek	22	8N	3E	7,150
11H8PST	U	Ben Lomond Peak	3	7N	1W	8,000
11H9PST	U	Ben Lomond (lower)	1	7N	1W	6,000
11H35p	U	Causey Dam	34	7N	3E	5,500
11H29	U	Cutler Creek	3	7N	1W	6,780
11H13MPST	U	Dry Bread Pond	19	8N	4E	8,230
11H34p	U	Guilder's Peak	21	6N	4E	8,050
11H45p	U	Middle Fork Ogden	16	7N	2E	8,420
11H49	U	Powder Mountain Hideaway	6	7N	2E	8,250
11H48	U	Powder Mountain Sundown	1	7N	1E	8,400
11H15P	U	Sagebrush Flat	21	7N	3E	6,300

WEBER RIVER

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
11J24	U	Beaver Creek R.S.	28	2S	7E	7,500
11J1PST	U	Chalk Creek #1	4	1N	8E	9,100
11J2MPST	U	Chalk Creek #2	29	2N	8E	8,200
11J3MP	U	Chalk Creek #3	7	2N	8E	7,500
11J12P	U	Farmington Canyon (lower)	14	3N	1E	6,950
11J11PST	U	Farmington Canyon (upper)	26	3N	1E	8,000
11H44p	U	Francis Canyon	29	5N	6E	7,400
11J45a	U	East Shingle Lake	6	3N	10W	9,800
11J37p	U	Hardscrabble	16	2N	2E	6,500
11H21PST	U	Horse Ridge	1	6N	4E	8,260
11H31P	U	Kilfoil Creek	20	6N	5E	7,300
11H32P	U	Lost Creek	27	6N	5E	6,125
11J43	U	Park City Summit	20	2S	4E	9,300
11J15PST	U	Parley's Canyon Summit	5	1S	3E	7,500
11H50	U	Pine Canyon	6	5N	4E	8,000
11J38p	U	Porcupine	22	3N	7E	8,100
11J6	U	Redden Mine (lower)	1	2S	6E	8,500
11J5P	U	Redden Mine (upper)	1	2S	6E	9,000
11J39p	U	Sergeant Lakes	17	1N	5E	8,400
11J40p	U	Shingle Mill Flat	15	1S	7E	9,900
11J4PST	U	Smith & Morehouse	25	1N	7E	7,600

PROVO RIVER & UTAH LAKE

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
11J46PST	U	Beaver Creek Divide	25	2S	7E	8,000
11J20	U	Camp Altamont	29	4S	3E	7,300
11K21PST	U	Clear Creek Ridge #1	18	11S	6E	9,200
11K22PST	U	Clear Creek Ridge #2	9	11S	6E	8,000
11K23	U	Clear Creek Ridge #3	27	10S	6E	6,600
11J17P	U	Dutchman R.S.	27	3S	3E	7,560
11J22P	U	Hobble Creek Summit	27	7S	5E	7,420
11J36P	U	Lake Creek	36	4S	6E	9,100
11J31	U	Packard Canyon	21	7S	5E	6,400
11K1P	U	Payson R.S.	30	10S	3E	8,050
11K2	U	Rock Bridge	14	10S	2E	6,750
11J25P	U	Soapstone R.S.	9	3S	8E	7,800
11J19	U	South Fork R.S.	24	4S	2E	6,100
11J18P	U	Timpanogos Cave Camp	27	4S	2E	5,500
11J21PST	U	Timpanogos Divide	33	4S	3E	8,140
10J8PST	U	Trial Lake	5	2S	9E	9,800

JORDAN RIVER & GREAT SALT LAKE

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
[illegible]	U	Bevan's Cabin	24	4S	4W	6,450
1[illegible]	U	Deseret Peak	15	4S	7W	9,250
11J41P	U	Lamb's Canyon #2	21	1S	3E	7,400
12J3P	U	Middle Canyon	8	4S	3W	7,000
11J44	U	Mill Creek	32	1S	3E	6,500
11J10	U	Mill D South Fork	18	2S	3E	7,400
12J1P	U	Rocky Basin-Settlement Canyon	30	4S	3W	8,900
11J16P	U	Silver Lake (Brighton)	35	2S	3E	8,725
11J42	U	Snow Bird (Gad Valley)	18	3S	3E	10,000
12K1PST	U	Vernon Creek	21	10S	5W	7,500

UPPER SEVIER RIVER (South of Richfield, Utah)

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
12L4PST	U	Box Creek	33	26S	2W	9,800
12M8	U	Bryce Canyon	36	36S	4W	8,000
12M13PST	U	Castle Valley	23	36S	8W	9,700
12M4P	U	Duck Creek R.S.	11	38S	8W	8,700
12M18	U	Farview	32	37S	4W	8,200
12M5PST	U	Harris Flat	24	38S	7W	7,700
11L9p	U	High-Top Mountain	36	25S	1E	11,400
12L6P	U	Kimberly Mine	11	27S	5W	9,300
12M2MPST	U	Midway Valley	26	37S	9W	9,800
12M7P	U	Panguitch Lake	4 & 5	36S	7W	8,200
12M19	U	Rainbow Point	29	38S	4W	9,100
12L5	U	Squaw Springs	3	27S	2W	9,300
11M4p	U	Widtsoe R.S.	22	34S	2W	7,600

LOWER SEVIER RIVER (Including San Pitch River)

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
11K13P	U	Beaver Dam	27	19S	3E	8,000
11L1PST	U	Farnsworth Lake	27 & 33	23S	2E	9,900
11K11P	U	G.B.R.C. Headquarters	21	17S	4E	8,700
11K10P	U	G.B.R.C. Meadows	26 & 27	17S	4E	10,000
11L2PST	U	Gooseberry R.S.	22	23S	2E	8,400
11K3MPST	U	Mammoth R.S.-Cottonwood Creek	13	13S	5E	8,800
11K34	U	Middle Fork	16	18S	4E	9,600
11K12P	U	Mt. Baldy R.S.	19	19S	4E	9,500
12K2P	U	Oak Creek	9	17S	3W	7,760
11K39PST	U	Pickle Keg Springs	4	21S	3E	9,600
12L1PS	U	Pine Creek	24	22S	4W	8,700
11K36	U	Rees's Flat	20	15S	2E	7,300
12L11P	U	Shingle Mill	5	22S	3W	6,200
11K35	U	Thistle Flat	23	18S	3E	8,500

BEAVER RIVER

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
12L13	U	Beaver Race Track	23	29S	7W	6,020
12L7PST	U	Big Flat	18	29S	4W	10,290
12L9PST	U	Merchant's Valley (upper)	8 & 9	29S	5W	8,200
12L8	U	Otter Lake	1	29S	5W	9,300

PAROWAN CREEK

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
12M16	U	Birch Crossing	23	35S	9W	8,100
12M14	U	Brian Head	10	36S	9W	10,000
12M12	U	Ed Ward Flat	17	35S	9W	8,300
12M15P	U	Tall Poles	26 & 35	35S	9W	8,800
12M11P	U	Yankee Reservoir	20	35S	8W	8,700

ENTERPRISE TO NEW HARMONY DRAINAGES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
13M4MP	U	Little Grassy Creek	15	38S	17W	6,100
13M2MPST	U	Long Flat	2	38S	14W	8,000

COAL CREEK

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
12M20	U	Cedar City Golf Course	11	36S	11W	5,800
12M17	U	SUSC Ranch	18	37S	9W	8,200

COLORADO RIVER DRAINAGE

UPPER GREEN RIVER IN UTAH (above Duchesne River)

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
9J11aP	U	Ashley Twin Lakes	20	1S	19E	10,500
10J21P	U	Black's Fork G.S.-East Fork	25	2N	12E	9,300
10J22P	U	Black's Fork Junction	33	3N	12E	8,925
10J23a	U	Buck Pasture	14	1N	11E	9,700
9J14P	U	Burnt Creek	4	1N	20E	7,900
9J13P	U	Grizzly Ridge	8	1S	22E	8,500
10J24ap	U	Henry's Fork	29	2N	14E	10,000
10J4P	U	Hewinta G.S.	33	3N	13E	9,500
9J8P	U	Hickerson Park	24	2N	17E	9,100
9J15p	U	Highline Trail	23	1N	19E	10,250
10J1	U	Hole-in-the-Rock	13	2N	15E	9,150
10J3	U	Hole-in-the-Rock G.S.	32	3N	16E	8,300
9J2	U	King's Cabin (lower)	23 & 26	1S	21E	8,600
9J1PST	U	King's Cabin (upper)	22	1S	21E	8,730
10J37p	U	McCoy Park	6	1N	17E	10,680
10J2	U	Middle Beaver Creek	31	3N	16E	8,550
9J10aP	U	Reynolds Park	9	1S	18E	10,400
9J7P	U	Spirit Lake	10	1N	17E	10,300
10J20PST	U	Steel Creek Park	17	2N	13E	9,900
9J16PST	U	Trout Creek	9	1S	20E	9,200
9J12ap	U	Windy Park	1	1S	20E	9,400

DUCHESNE RIVER

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
10J41ap	U	Atwood Lake	13	4N	4W	10,500
10J30PST	U	Brown Duck Ridge	8	2N	6W	10,800
9J9ap	U	Chepeta-Whiterocks Lakes	3	1S	17E	10,300
11J32MPST	U	Currant Creek	31	1S	10W	7,800
11J23MPST	U	Daniels-Strawberry Summit	20	2S	12W	8,000
11J7P	U	East Portal	36	7S	6E	7,560
10J26ap	U	Five Point Lake	28	4N	5W	11,000
10K1PST	U	Indian Canyon	2	11S	10E	9,100
10J19P	U	Jackson Park	23	3N	4W	11,300
10J34p	U	Kidney Lake	28	5N	3W	11,000
10J39P	U	Lake Basin	23	3S	8W	10,800
10J25ap	U	Lakefork Basin	13	4N	7W	11,100
10J10PST	U	Lakefork Mountain	2 & 3	2N	5W	10,200
10J11	U	Lakefork Mountain #2	17	2N	4W	8,900
10J12	U	Lakefork Mountain #3	29	2N	4W	8,100
10J29ap	U	Lightning Lake	24	4N	8W	10,950
9J5PST	U	Mosby Mountain	27	2S	18E	9,500
9J3P	U	Paradise Park	7	3N	1E	10,100
10J18P	U	Rock Creek	21	2N	7W	7,900
10J32p	U	Shadow Lake	28	3N	8W	10,150
11J8PST	U	Strawberry Divide	34 & 35	7S	6E	8,000
11J35P	U	West Fork of the Duchesne	22	1N	19E	10,250

PRICE RIVER

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
10K5M	U	Corral	32	13S	14E	8,200
11K8	U	Dry Valley Divide	20	12S	8E	7,800
10K3M	U	Grassy Trail Creek-Left Fork	2	14S	13E	7,970
11K7	U	Jones Ranch	32	12S	7E	7,600
11K33MP	U	Mud Creek	4	14S	7E	8,300
10K6	U	Timberline	28	13S	13E	9,100
10K2MPST	U	White River #1	11	10S	8E	8,550
11K24	U	White River #2	9	10S	8E	7,600
11K25	U	White River #3	30	10S	8E	7,400

SAN RAFAEL RIVER

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
11K31PST	U	Buck Flat	23	19S	4E	9,400
11K4P	U	Gooseberry Reservoir	25	13S	5E	8,700
11K5	U	Huntington-Horseshoe	12	14S	5E	9,800
11K40P	U	Orange Olsen	31	17S	6E	7,300
11K28PST	U	Red Pine Ridge	5	16S	6E	9,400
11K38	U	Rush Pond	24	19S	4E	9,800
11K9PST	U	Seeley Creek	25	17S	4E	10,000
11K27P	U	Stuart R.S.	8 & 9	15S	7E	7,950
11K29	U	Upper Joe's Valley	21	16S	6E	8,900
11K32	U	Wrigley Creek	27	19S	5E	9,000

MUDDY RIVER

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
11K14	U	Black's Fork	34	20S	4E	9,200
11K15PST	U	Dill's Camp	27	20S	4E	9,200

FREMONT RIVER

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
11L4P	U	Black's Flat-U.M. Creek	33	24S	3E	9,250
11L5	U	Donkey Reservoir	9	30S	4E	9,800
11L3P	U	Fish Lake	35	26S	1E	8,700
11L6	U	Johnson Valley	24	25S	2E	8,850

SOUTHEASTERN UTAH DRAINAGES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
9M1P	U	Buckboard Flat	36	33S	22E	9,000
9M2P	U	Camp Jackson	22	34S	22E	8,600
9L1	U	LaSal Mountain	5	27S	24E	8,800
9L2P	U	LaSal Mountain (upper)	3	27S	24E	9,400
9M3	U	Monticello Park	25	33S	23E	7,050

ESCALANTE RIVER

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
11M1	U	Widtsoe-Escalante Summit	22	34S	1W	9,500
11M2PST	U	Widtsoe-Escalante #2	22	34S	1W	9,500
11M3PST	U	Widtsoe-Escalante #3	22	34S	1W	9,500

VIRGIN RIVER

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
13M5PST	U	Kolob-Crystal	2	38S	11W	9,250
12M6	U	Long Valley Junction	22	38S	6W	7,500
12M3MPST	U	Webster Flat	20	37S	9W	9,200

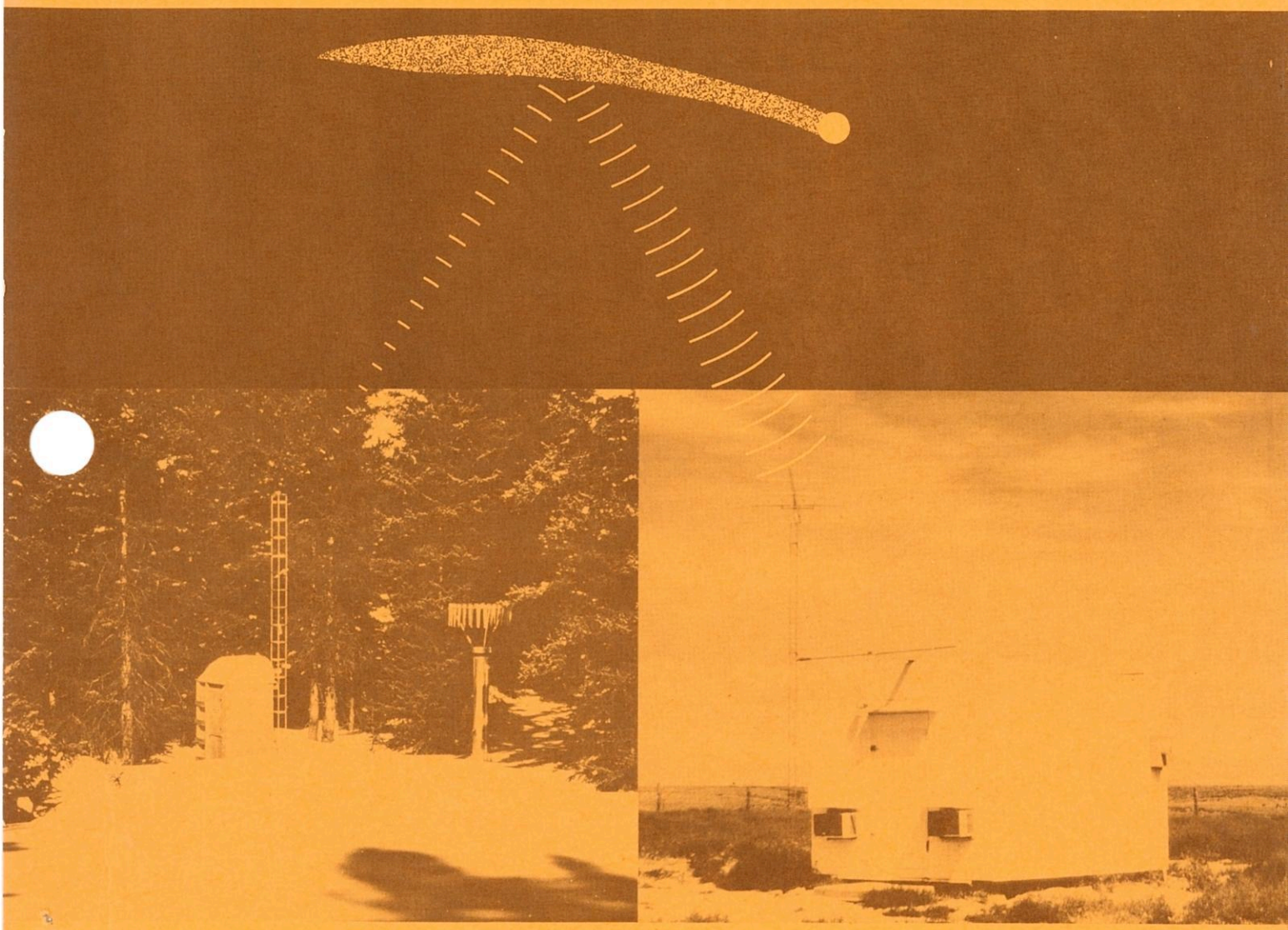
RAFT RIVER

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
13H2a	U	Clear Creek Meadows	26	14N	14W	9,050
13H4P	U	George Peak	4	13N	4W	9,000
13H1	U	One Mile Summit	19	14N	14W	7,330
13H3a	U	ViPont	17	14N	17W	7,670

LEGEND
Numbering System (example)

10J7	Snow Course Only
10J7P	Snow Course and Precipitation Gage
10J7M	Snow Course and Soil Moisture Station
10J7A	Snow Course and Aerial Marker
10J7MA	Snow Course, Soil Moisture Station and Aerial Marker
10J7MP	Snow Course, Soil Moisture Station and Precipitation Gage
10J7a	Aerial Marker Only
10J7o	Storage Precipitation Gage Only
10J7PS	Snow Course, Precipitation Gage, Snow Pillow and Temperatu
10J7PST	Snotel Data Site

WATER SUPPLY OUTLOOK FOR UTAH



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

UTAH STATE DEPARTMENT OF NATURAL RESOURCES
-- DIVISION OF WATER RIGHTS

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
JUNE 1, 1978

WATER SUPPLY OUTLOOK FOR UTAH

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

Released by

GEORGE D. McMILLAN

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
SALT LAKE CITY, UTAH

In Cooperation with

UTAH STATE DEPT. OF NATURAL RESOURCES

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State Engineer
Division of Water Rights

DANIEL F. LAWRENCE
Director
Division of Water Resources

Report prepared by

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KENNETH C. JONES, Assistant Snow Survey Supervisor
and
LINDA K. LYTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
4012 FEDERAL BUILDING
SALT LAKE CITY, UTAH 84138

USDA-SCS-PORTLAND, OR. 1977, M7-L-22027B

WATER SUPPLY OUTLOOK

as of
June 1, 1978

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* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* Utah's water supply outlook ranges from below average for *
* some reservoir water users in Uintah and Sevier Basins to  *
* average or better than average for most other areas of the*
* state. Snow cover remains at about 50 high elevation snow*
* courses and most reservoirs are expected to fill except in*
* Uintah and Sevier Basins. Most streamflow has been held  *
* back by freezing nighttime temperatures, but total volume *
* is still expected to remain about as forecast May 1.      *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
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SNOW COVER

About 50 of 160 snow courses still have measureable snow. Water contents range as high as 39.2 inches at Steep Hollow #1 on the Logan River. Snow courses on the Uintas showed from zero at lower elevations to an estimated 33.6 inches of water at Lightning Lake aerial marker. High aerial markers in the Uintas show very good snow cover and should help produce better flows than previously expected.

Delayed snowmelt has caused high elevations to retain snow longer than usual leaving good snow cover along Skyline Road in central Utah, the head of the Beaver, Sevier, Virgin, Weber, Provo, and Ogden Rivers.

PRECIPITATION

Mountain precipitation generally ranged from near average to better than twice the May average. Areas where precipitation was below average were Panguitch Lake, Ben Lomond Lower, and LaSal Mountain.

SOIL MOISTURE

Dry watershed soils were soaking up runoff water on the Sevier River, Uintah Basin, Ogden, Weber and Provo Rivers.

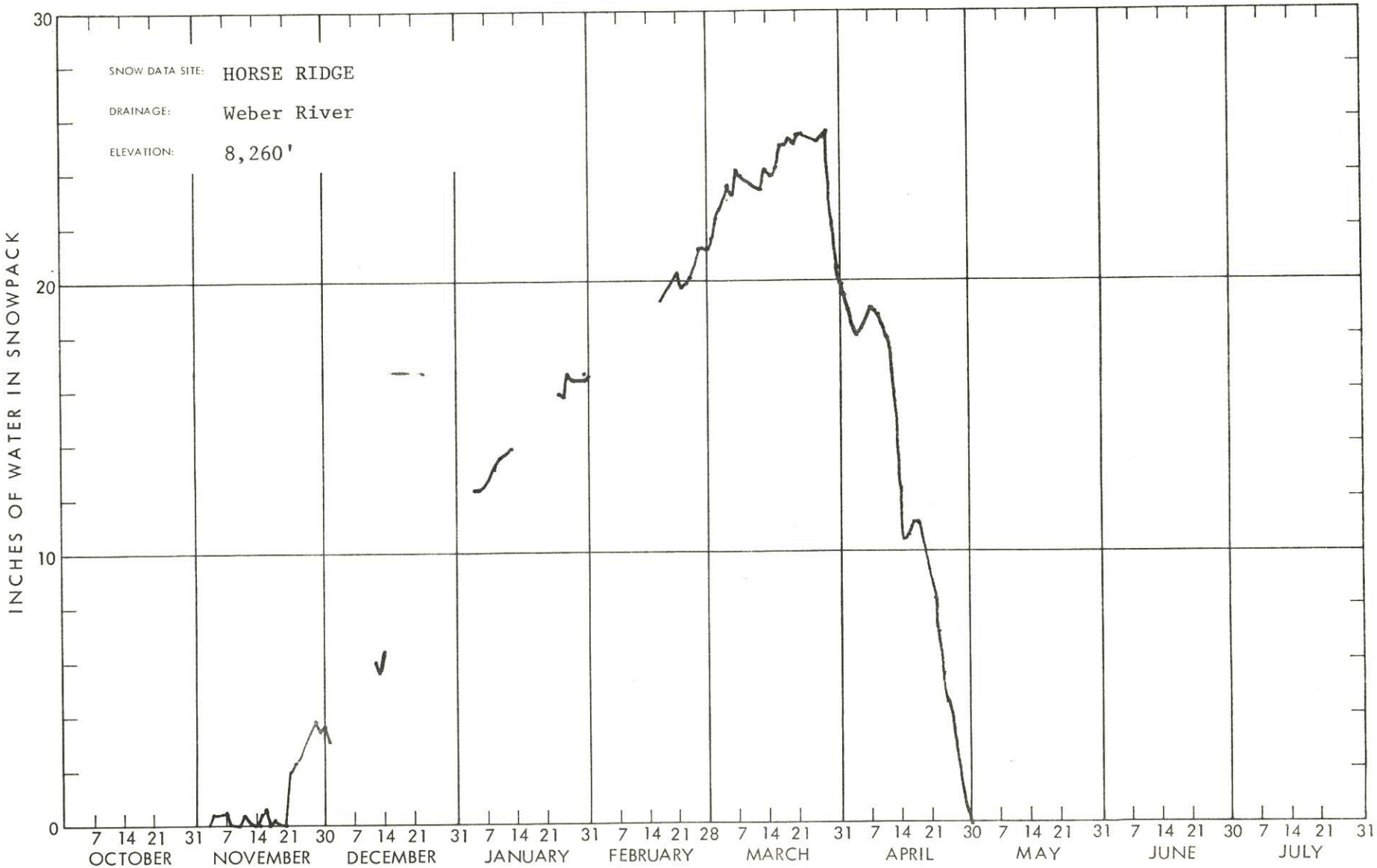
RESERVOIR STORAGE

Reservoirs are full or expected to fill soon on most streams. They are not expected to fill in Uintah and Sevier Basins. Great Salt Lake is now at the 4200.25 foot elevation and Utah Lake is 0.85 feet below compromise.

STREAMFLOW

Streamflow during May according to the U.S. Geological Survey ranged from about 55% of median on Whiterocks River to 155% on the Beaver River. The Weber at Oakley was 82%, Big Cottonwood 90%, Green River at Green River 95%, the Colorado at Cisco 109%, and the San Juan at Bluff 98%. Flow on most streams was reduced by cold temperatures and dry soils. Streamflow volumes are still expected to be about as forecast May 1. Peak flows may be less than forecasted due to colder than average melt conditions during May.

WSFB-X13B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DRAINAGE: Weber River
ELEVATION: 8,260'
INCHES OF WATER IN SNOWPACK
30
20
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0
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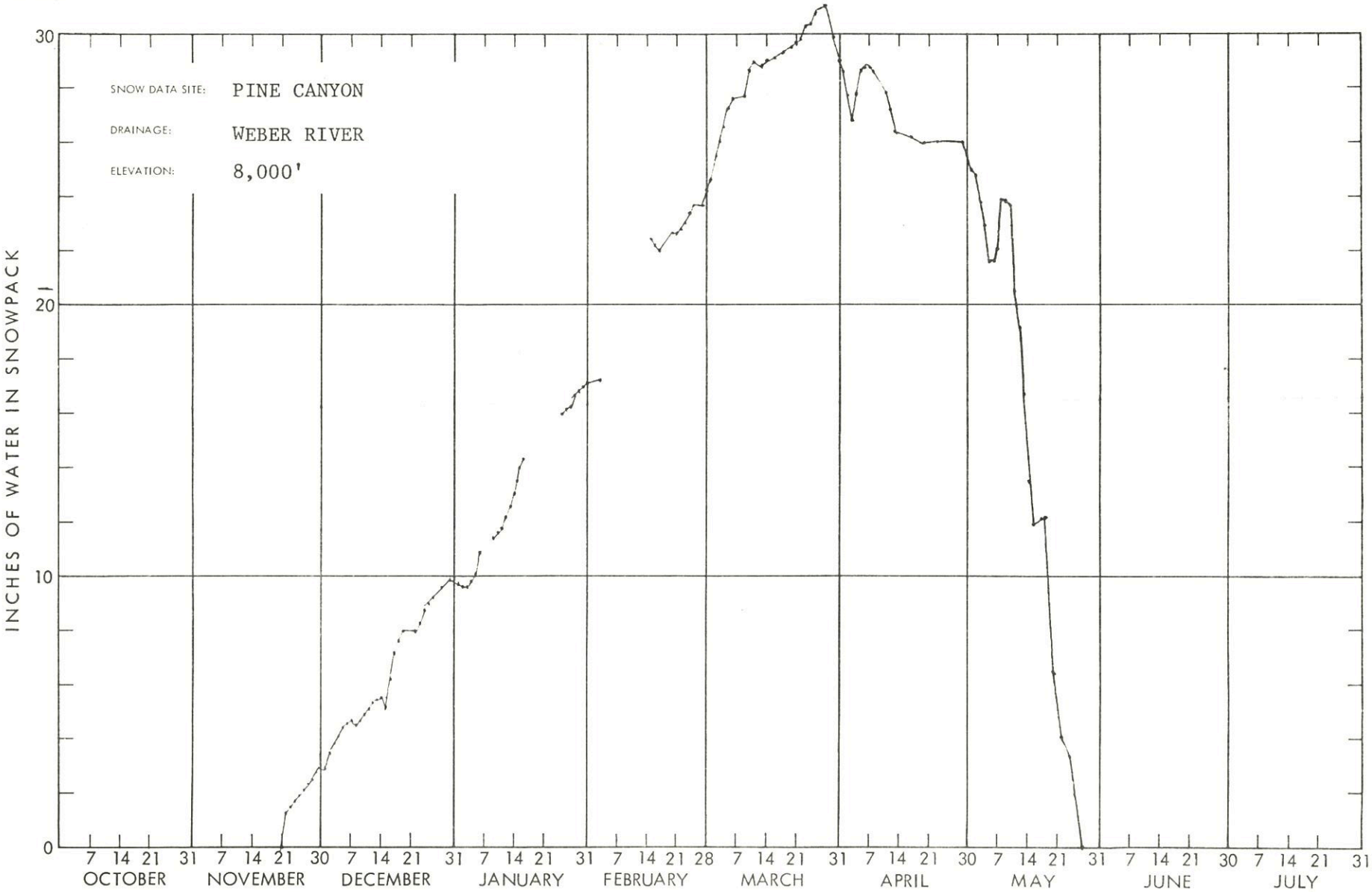
SNOW DATA SITE: PINE CANYON
DRAINAGE: WEBER RIVER
ELEVATION: 8,000'
INCHES OF WATER IN SNOWPACK
30
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0
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
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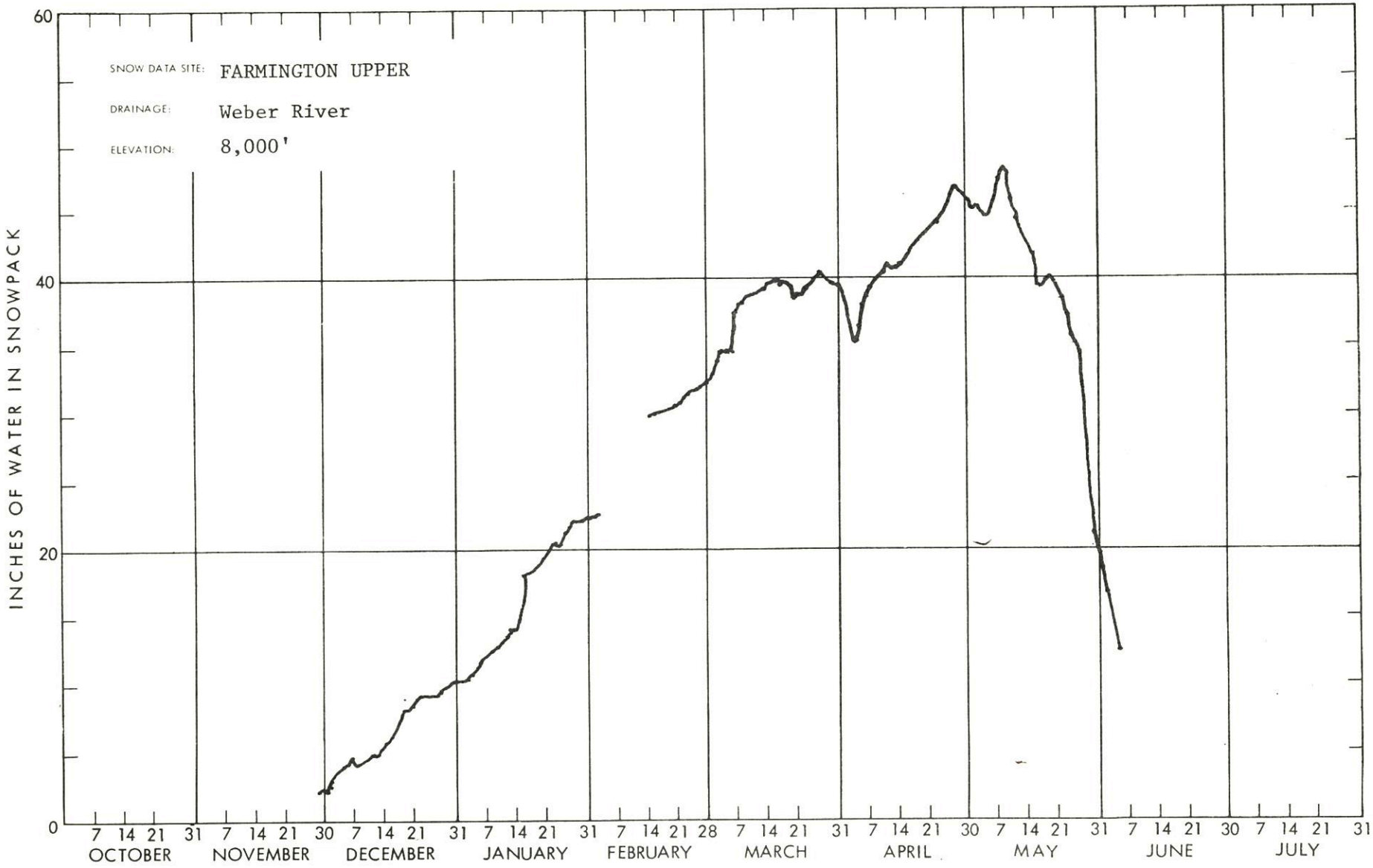
SNOW DATA SITE: FARMINGTON UPPER
DRAINAGE: Weber River
ELEVATION: 8,000'
INCHES OF WATER IN SNOWPACK
60
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7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
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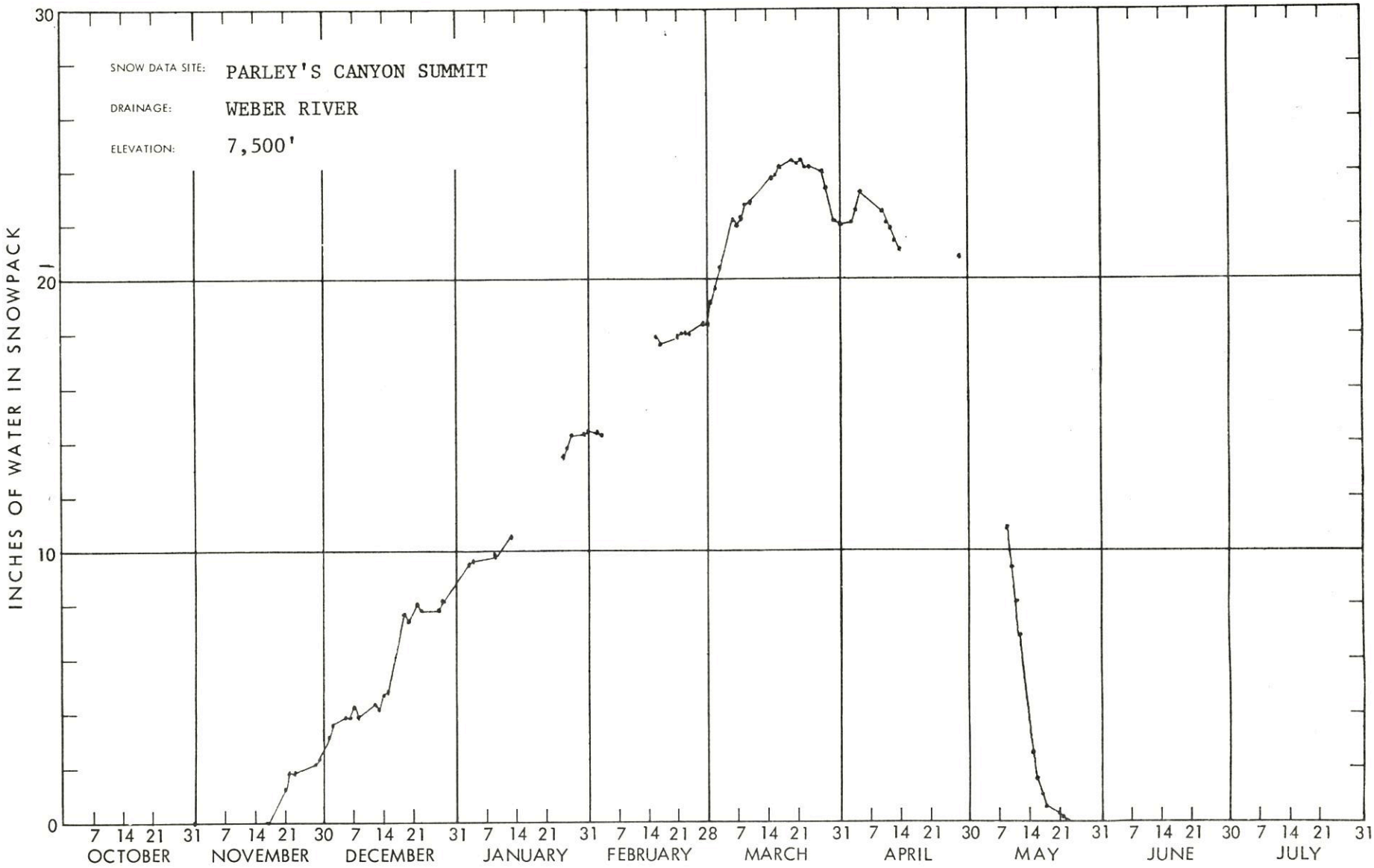
SNOW DATA SITE: PARLEY'S CANYON SUMMIT
DRAINAGE: WEBER RIVER
ELEVATION: 7,500'
INCHES OF WATER IN SNOWPACK
30
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7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
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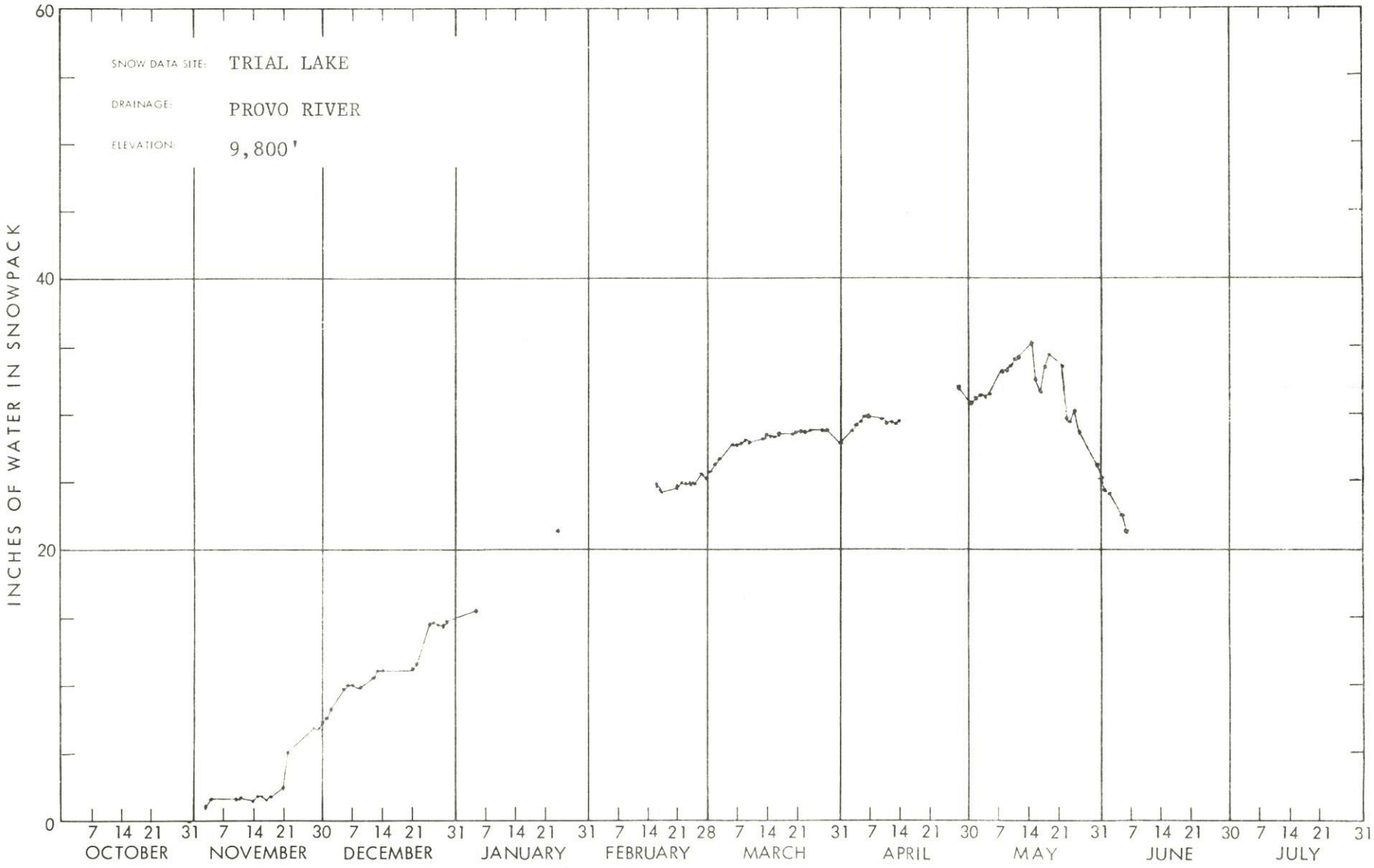
SNOW DATA SITE: TRIAL LAKE
DRAINAGE: PROVO RIVER
ELEVATION: 9,800'
INCHES OF WATER IN SNOWPACK
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40
20
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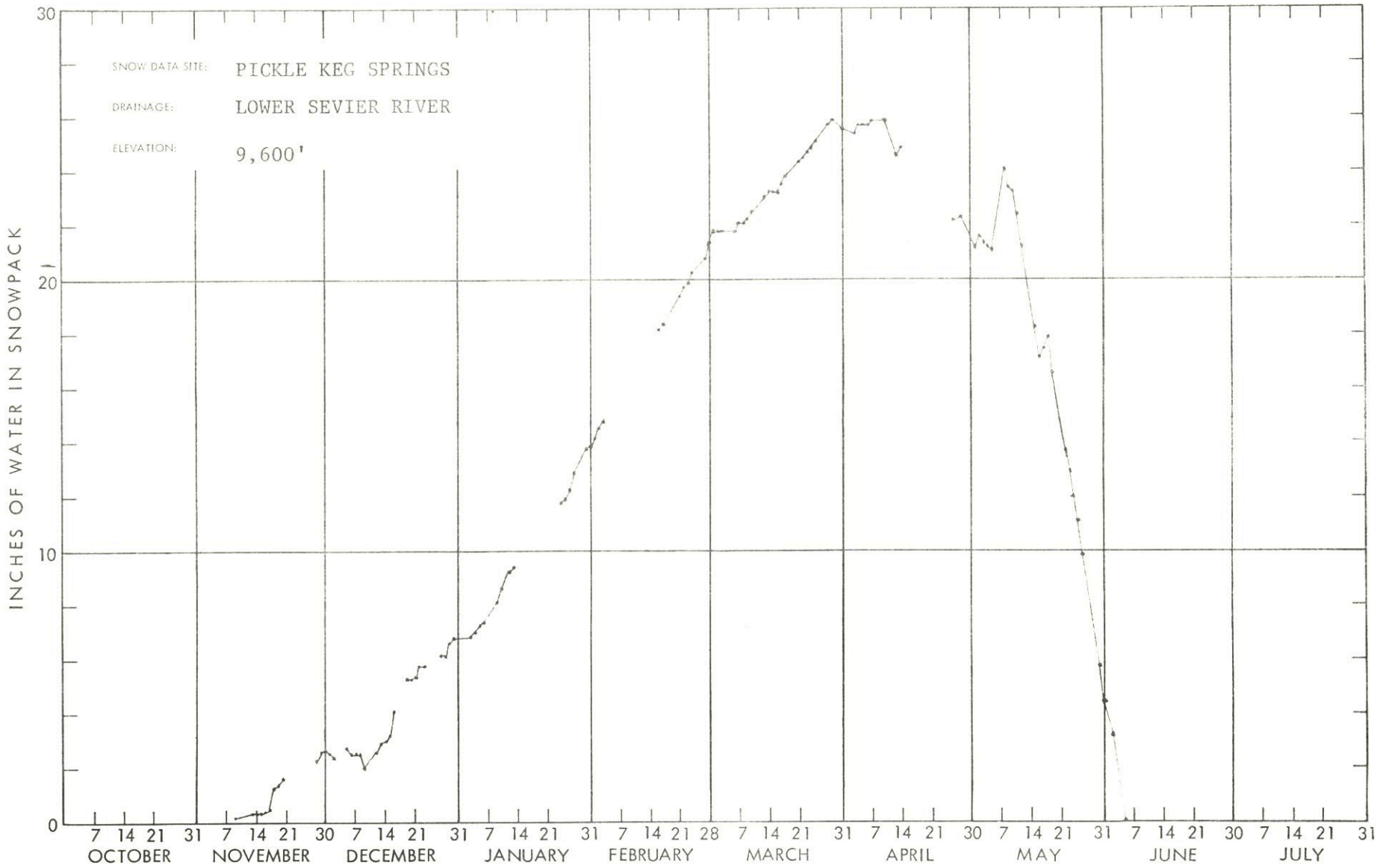
SNOW DATA SITE: PICKLE KEG SPRINGS
DRAINAGE: LOWER SEVIER RIVER
ELEVATION: 9,600'
INCHES OF WATER IN SNOWPACK
30
20
10
0
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
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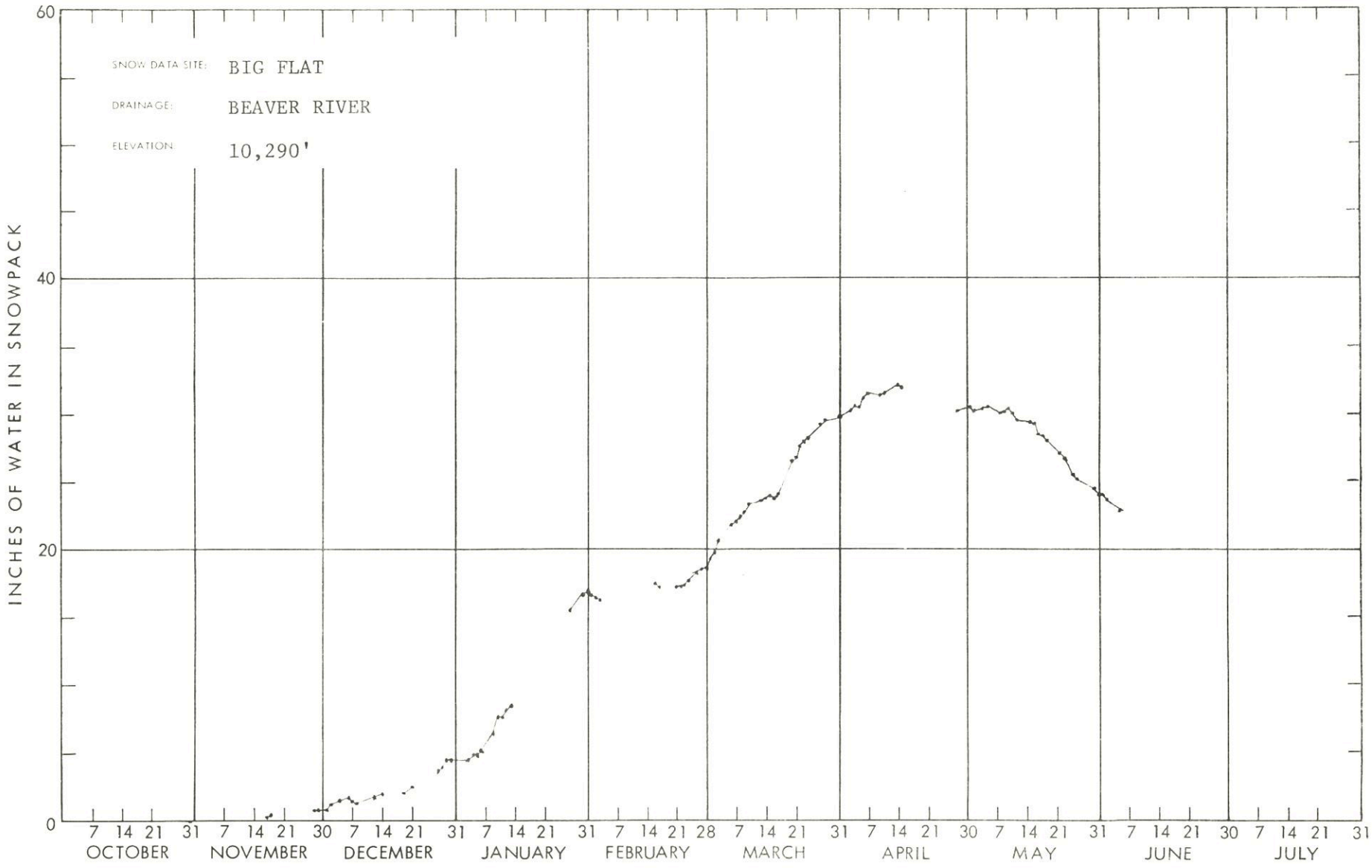
SNOW DATA SITE: BIG FLAT
DRAINAGE: BEAVER RIVER
ELEVATION: 10,290'
INCHES OF WATER IN SNOWPACK
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40
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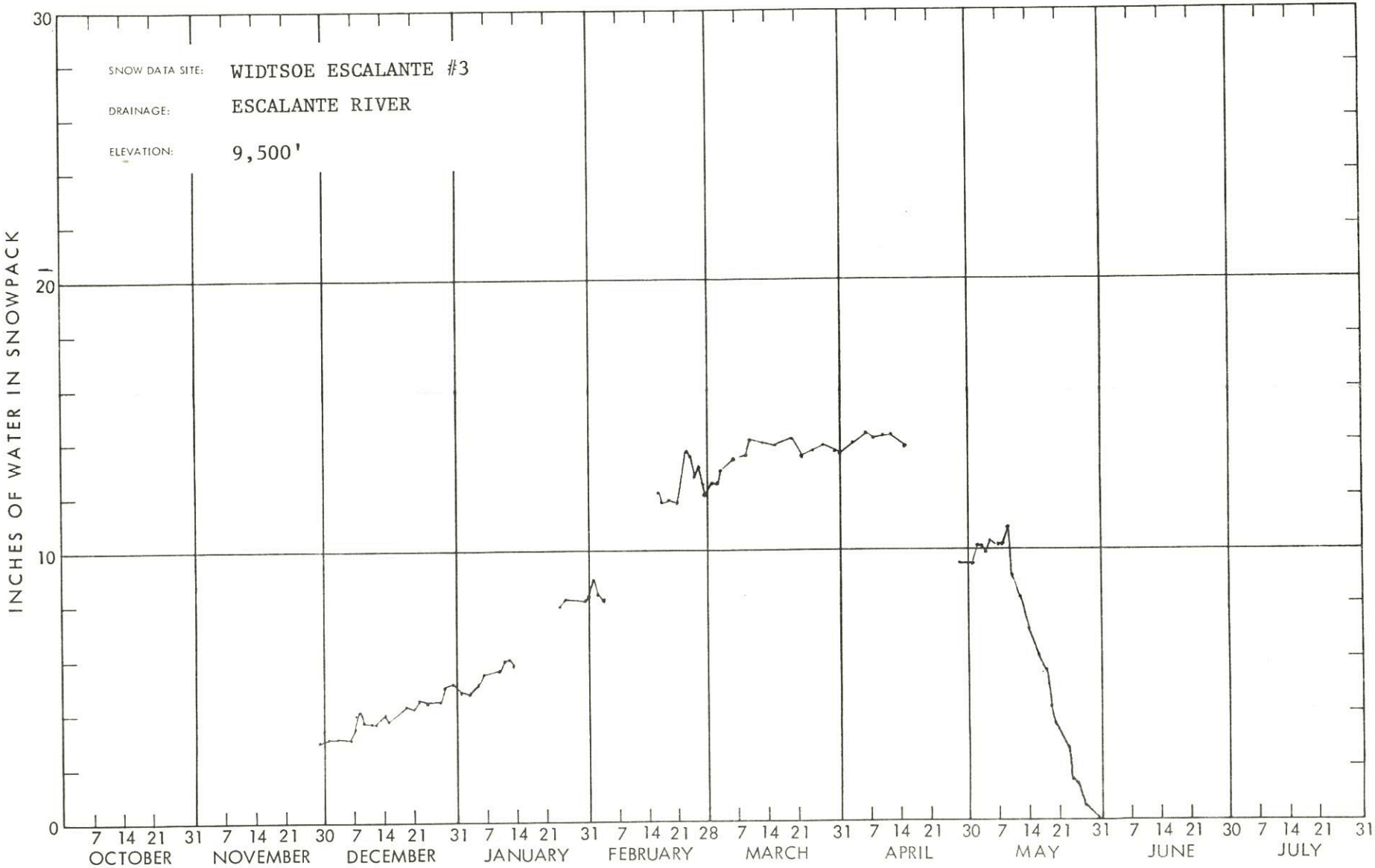
SNOW DATA SITE: WIDTSOE ESCALANTE #3
DRAINAGE: ESCALANTE RIVER
ELEVATION: 9,500'
INCHES OF WATER IN SNOWPACK
30
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7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
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JULY

The Soil Conservation Service SNOTEL system is undergoing testing and evaluation, with limited data available to interested water users.

The following report is typical of information that will be available from 30 remote stations in Utah this fall. SNOTEL stations throughout the west will number 511 by 1980, with 63 sites in Utah reporting snow water content, total precipitation, air temperature, and various other hydrometerologic values.

This system will not completely replace the older snow survey techniques, for manual measurements will still be taken on easily accessible snow courses but future snow data and streamflow forecasts will be more accurate thanks to this up-to-date information.

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*****************************
*                           *
*  SNOTEL TELEMETRY SYSTEM  *
*                           *
*   DATA REPORT FOR UTAH    *
*                           *
*****************************
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NAME : EXAMPLE REPORT
TIME : ON OR ABOUT JUNE 1, 1978

NOTE:ALL DATA IN ENGINEERING UNITS (IN TENTHS XXX.X)

REMOTE SITE NAME	MM/DD/YY	HH:MM	RADIO BATTERY VOLTAGE	SNOW PILLOW W.C.	RAIN CATCH FROM 10/1/78	TEMPERATURE IN DEGREES CELSIUS
BEAVER DIVIDE	5/31/78			00G	M	
BEN LOMOND PEAK	5/31/78	14:24	188V	320V	M	3V
BIG FLAT	5/23/78			302G	340G	
BROWN DUCK	5/31/78	6:39	157V	189V	274V	- 151V
BUCK FLAT	5/30/78			98G	428G	
CLEAR CREEK #1	5/30/78	6:27	129V	00V	275V	- 97V
CLEAR CREEK #2	5/30/78	1:46	128V	00V	240V	- 92V
DILL'S CAMP	5/30/78			00G	282G	
FARMINGTON	5/30/78	7:13	112V	238V	397V	- 119V
FRANKLIN BASIN	5/30/78	7:22	138V	201V	481V	- 87V
HORSE RIDGE	5/30/78	7:46	113V	00V	374V	- 115V
INDIAN CANYON	5/30/78	7:16	128V	00V	214V	- 38V
KING'S CABIN	5/31/78	6:25	126V	00V	190V	- 130V
KOLOB	5/24/78	6:25	129V	228V	276V	5V
LAKEFORK #1	5/31/78			110G	189G	
MAMMOTH-COTTONWOOD	5/30/78	7:22	127V	00V	244V	- 96V
MONTE CRISTO	5/30/78			222G	385G	
MOSBY MTN.	5/31/78	9:45	130V	31V	236V	- 7V
FARLEY'S SUMMIT	5/31/78	6:26	125V	00V	340V	- 67V
PICKLE KEG	5/30/78			115G	330G	
RED PINE RIDGE	5/30/78	8: 1	167V	00V	332V	- 56V
SEELEY CREEK	5/30/78	7: 9	167V	132V	M	- 146V
SMITH & MOREHOUSE	5/31/78	14:32	121V	00V	293V	19V
STRAWBERRY DIVIDE	5/31/78	6:21	129V	00V	M	- 134V
TONY GROVE LAKE	5/30/78	7:15	168V	302V	M	- 129V
TRIAL LAKE	5/24/78			293G	379G	
TROUT CREEK	5/31/78	12:46	171V	00V	181V	19V
VERNON CREEK	5/31/78	6:28	136V	00V	339V	- 46V
WHITE RIVER #1	5/30/78			00G	222G	
WIDSTOE #3	5/30/78	7:18	126V	00V	210G	- 19V

FOOTNOTES: V = VALID READING
G = GROUND READING (MANUAL MEASUREMENT)
M = VALUE MISSING

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches) Last Year	2 Years Ago	CURRENT INFORMATION Date of Reading	Month's Precipitation	Average +	FROM APPROX. OCT 1 TO DATE This Year	Average +	Percent of Average
GREAT BASIN											
UPPER BEAR RIVER (Above Harer, Idaho)											
Burts-Miller Ranch	5/31	0	0.0	0.0	0.0	5/31	3.62	2.32a	15.24	13.99a	109
Hayden Fork	5/31	2	0.8	0.0	0.0	5/31	4.35	3.88a	31.66	28.60a	111
Monte Cristo R.S.	5/30	34	19.6	0.0	2.2	5/30	6.12	2.27b	39.11	35.35b	111
Salt River Summit						5/30	3.25	1.45	28.25	20.64	137
Stillwater Camp	5/31	0	0.0	0.0	0.0	5/31	3.66	2.22	19.75	17.32	114
LOWER BEAR RIVER (Below Harer, Idaho)											
Bug Lake	5/30	0	0.0	- -	- -						
Cub River R.S.	5/31	0	0.0	- -	- -						
Franklin Basin	5/30	36	19.8	0.0	4.7						
Garden City Summit	5/30	0	0.0	0.0	0.0	5/30	2.84	1.88b	29.29a	25.24b	116
Klondike Narrows	5/30	0	0.0	0.0	0.0	5/30	3.67	2.75b	35.40	29.20b	121
Little Bear (lower)	5/30	0	0.0	0.0	0.0						
Little Bear (upper)	5/30	0	0.0	0.0	0.0						
Steep Hollow #1	5/30	71	39.2	0.0	23.3						
Steep Hollow #2	5/30	17	8.9	0.0	0.0						
Tony Grove Lake	5/30	52	30.2	0.0	10.2						
Tony Grove R.S.	5/30	0	0.0	0.0	0.0	5/30	2.46	1.56a	28.83	22.97a	126
Willow Flat	5/30	0	0.0	- -	- -						
OGDEN RIVER											
Beaver Creek-Skunk Creek	5/30	0	0.0	0.0	0.0						
Ben Lomond (lower)	5/30	0	0.0	0.0	0.0	5/30	1.94e	2.86b	46.08	32.18b	143
Ben Lomond Peak	5/30	54	31.3	1.9	0.0						
Ben Lomond Trail						5/30	2.08	3.06a	- -	32.04a	- -
Causey Dam						5/30	1.99	1.59a	17.87	18.23a	98
Cutler Creek	5/30	4	2.2	0.0	0.0						
Dry Bread Pond	5/30	5	2.7	0.0	0.0	5/30	4.42	2.22b	- -	27.38b	- -
Sagebrush Flat	5/30	0	0.0	0.0	0.0	5/30	2.29	1.41b	20.58	18.29b	112
WEBER RIVER											
Beaver Creek R.S.	5/31	0	0.0	0.0	0.0						
Chalk Creek #1	5/31	33	17.6	0.0	3.5						
Chalk Creek #2	5/31	0	0.0	0.0	0.0						
Chalk Creek #3	5/31	0	0.0	0.0	0.0	5/31	3.92	2.17b	21.97	17.76b	124
East Shingle Lake (A)	5/25	72e	38.9	0.0	3.0						
Farmington Canyon (lower)	5/30	0	0.0	0.0	0.0		Molested	2.96		35.45	
Farmington Canyon (upper)	5/30	38	21.1	0.0	0.0						
Farmington G.S.						5/30	5.69	- -	51.37	- -	- -
Horse Ridge	5/30	0	0.0	0.0	0.0	5/30	4.84	2.21a	36.07	32.87a	110
Kilfoil Creek	5/30	0	0.0	0.0	0.0						
Lost Creek Reservoir	5/30	0	0.0	0.0	0.0	5/30	1.82	- -	16.87	- -	- -
Parley's Canyon Summit	5/31	0	0.0	0.0	0.0	5/31	3.07	2.09	37.63	28.82	131
Redden Mine (lower)	5/31	0	0.0	0.0	0.0						
Redden Mine (upper)						5/31	4.25	2.56a	35.18	27.57a	128
Smith & Morehouse	5/24	0	0.0	0.0	0.0	5/24	4.64	2.18	29.24	24.21	121
Sergeant Lakes (A)	5/25	4	2.2	0.0	0.0						
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide	5/31	0	0.0	0.0	0.0						
Camp Altamont	5/30	0	0.0	0.0	0.0						
Clear Creek Ridge #1	5/30	7	4.0	0.0	0.0						
Clear Creek Ridge #2	5/30	0	0.0	0.0	0.0	5/30	3.00	1.79	25.10	20.34	123
Clear Creek Ridge #3	5/30	0	0.0	0.0	0.0						
Dutchman R.S.	5/30	0	0.0	0.0	0.0	5/30	3.10	2.10	40.00	26.98	148
Hobble Creek Summit	5/30	0	0.0	0.0	0.0	5/30	1.24e	1.91	27.49a	21.62	127
Packard Canyon	5/30	0	0.0	0.0	0.0						
Payson R.S.	5/30	0	0.0	0.0	0.0	5/30	4.30	1.83	29.40	23.00	128
Rock Bridge	5/30	0	0.0	0.0	0.0						
Soapstone R.S.	5/24	0	0.0	0.0	0.0	5/24	2.54	1.71	24.59	20.64	119
South Fork R.S.	5/30	0	0.0	0.0	0.0						
Timpanogos Cave Camp	5/30	0	0.0	0.0	0.0						
Timpanogos Divide	5/30	7	4.4	0.0	0.0	5/31	.90	2.20	44.27	30.77	144
Trial Lake	5/24	56	30.5	0.0	13.4	5/24	2.88	2.54	36.85	29.98	123

+ 1958-1972 period

USDA-SCS-PORTLAND, OR 1977 M7-0-22027 D

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
DRAINAGE BASIN and/or SNOW COURSE				Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	2 Years Ago	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
JORDAN RIVER & GREAT SALT LAKE											
Bevans Cabin	5/30	0	0.0	- -	0.0						
Lamb's Canyon #2	5/31	0	0.0	0.0	0.0	5/31	2.31	- -	30.03	- -	- -
Middle Canyon	5/30	0	0.0	0.0	0.0	5/31	3.60	2.40b	- -	23.21b	- -
Mill Creek	5/29	13	6.5	- -	- -						
Mill D South Fork	5/26	0	0.0	- -	- -						
Mt. Dell Dam							Data Delayed				
Rocky Basin-Settlement Canyon	5/30	44	24.6	- -	- -	5/30	4.23	- -	39.86	- -	- -
Silver Lake (Brighton)							Data Delayed				
Vernon Creek	5/31	0	0.0	0.0	0.0	5/31	1.20	- -	33.90	- -	- -
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	5/24	0	0.0	0.0	0.0	5/24	2.90	1.88	22.93	18.29	125
Castle Valley	5/30	0	0.0	0.0	0.0	5/30	2.25	1.47	23.65	18.99	124
Duck Creek R.S.	5/24	0	0.0	0.0	0.0	5/24	2.56e	1.71	34.72a	22.08	157
Harris Flat	5/24	0	0.0	0.0	0.0						
Kimberly Mine	5/23	19	10.2	0.0	0.0	5/23	4.10	2.17b	30.05	23.18b	130
Midway Valley	5/24	52	26.0	0.0	0.0	5/24	2.40	- -	34.90	- -	- -
Panguitch Lake	5/30	0	0.0	0.0	0.0	5/30	.60	.88	14.00	9.29	151
Squaw Springs	5/23	0	0.0	0.0	0.0						
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	5/30	0	0.0	0.0	0.0	5/30	3.80	2.14	26.47	18.22	145
Farnsworth Lake	5/23	44	21.3	0.0	- -		Not Measured				
G.B.R.C. Headquarters	5/30	4	2.4	0.0	0.0	5/30	2.30	2.30	29.20	23.90	122
G.B.R.C. Majors						6/1	1.20	1.50	16.82	13.50	125
G.B.R.C. Meadows	5/30	50	25.8	0.0	0.0	5/30	- -	2.60	38.85	29.80	130
G.B.R.C. Oaks						6/1	1.63	1.60	20.35	16.20	126
Gooseberry R.S.	5/24	0	0.0	0.0	- -	5/24	3.50	1.83b	23.75	17.85b	133
Mammoth-Cottonwood Creek	5/30	20	12.4	0.0	0.0	5/30	3.30	2.00b	36.83	24.19b	152
Middle Fork	5/30	57	30.8	2.6	- -						
Mt. Baldy R.S.	5/30	53	31.0	0.0	0.0	5/30	- -	2.67b	33.60	23.51b	143
Oak Creek	6/1	0	0.0	0.0	0.0	6/1	- -	1.72a	28.76	19.05a	151
Pickle Keg Springs	5/30	10	5.8	0.0	- -						
Pine Creek	5/23	24	13.2	0.0	0.0	5/31	4.70	3.00	45.15	30.70	147
Ree's Flat	5/30	0	0.0	0.0	- -	5/30	2.30	- -	25.05	- -	- -
Shingle Mill	6/1	0	0.0	0.0	0.0	6/1	2.18	2.06b	25.63	19.33b	132
Thistle Flat	5/30	2	1.0	0.0	- -						
BEAVER RIVER											
Beaver Race Track	5/30	0	0.0	0.0	0.0						
Big Flat	5/23	58	26.8	0.0	4.4	5/23	3.60	2.79b	33.98	22.52b	151
Merchant's Valley (upper)	5/23	0	0.0	0.0	0.0	5/23	2.80	2.35a	31.15	19.36a	161
Otter Lake	5/23	33	16.8	0.0	0.0						
PAROWAN CREEK											
Birch Crossing	5/30	0	0.0	0.0	0.0						
Brian Head	5/23	35	18.4	0.0	0.0						
Tall Poles	5/30	0	0.0	0.0	0.0	5/30	2.85	1.67a	25.10	23.77a	106
Yankee Reservoir	5/23	0	0.0	0.0	0.0	5/23	2.90	1.43	21.10	15.77	134
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	5/30	0	0.0	0.0	0.0	5/30	2.00	.88b	27.05	15.61b	173
Long Flat	5/24	0	0.0	0.0	- -	5/24	2.35	1.23b	21.15	14.24b	148
COAL CREEK											
Cedar City Golf Course	5/30	0	0.0	0.0	0.0						
SUSC Ranch	5/30	0	0.0	0.0	0.0						

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COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Ashley-Twin Lakes (A)	5/25	36	14.0	0.0	2.0						
Black's Fork G.S.-East Fork	5/31	0	0.0	0.0	0.0	5/31	5.05	2.44b	21.38	17.55b	122
Black's Fork Junction	5/31	0	0.0	0.0	0.0	5/31	5.15	2.35b	20.53a	16.82b	122
Buck Pasture (A)	5/31	24	11.4	0.0	0.0						
Burnt Creek	6/2	0	0.0	0.0	0.0	6/2	4.77	2.84b	15.50	14.91b	104
Grizzly Ridge	6/2	0	0.0	0.0	0.0	6/2	4.10	2.64b	20.82	19.33b	108
Henry's Fork (A)	5/25	37	15.2	0.0	0.0						
Hewinta G.S.	5/31	0	0.0	0.0	0.0	5/31	6.15	2.51b	22.96	18.40b	125
Hickerson Park	5/31	0	0.0	0.0	0.0	5/31	5.45	2.89a	15.41	14.89a	103
Highline Trail	5/31	34	13.1	0.0	13.1	5/31	--	--	23.25	--	--
King's Cabin (lower)	5/31	0	0.0	0.0	0.0						
King's Cabin (upper)	5/31	0	0.0	0.0	0.0	5/31	3.86	2.60	18.98	16.81	113
Reynolds Park (A)	5/25	36	16.2	0.0	1.0						
Spirit Lake	5/31	15	6.1	0.0	7.2	5/31	6.75	3.68b	22.74	22.38b	102
Steel Creek Park	5/31	47	19.1	0.0	9.6						
Trout Creek	5/31	0	0.0	0.0	0.0	5/31	4.70	--	18.12	--	--
Windy Park (A)	5/25	12	4.7	0.0	0.0						
DUCHESNE RIVER											
Atwood Lake (A)	5/25	27	12.2	0.0	0.0						
Brown Duck Ridge	5/31	40	18.9	2.0	9.6	5/31	2.82	--	24.55	--	--
Chepeta-Whiterocks (A)	5/25	29	13.0	0.0	0.0						
Currant Creek	5/30	0	0.0	0.0	0.0	5/30	1.30	1.34b	20.68	17.24b	120
Daniels-Strawberry Summit	5/30	0	0.0	0.0	2.6	5/30	2.55	1.64	31.73	22.17	143
East Portal	6/1	0	0.0	--	--	6/1	1.46	2.25b	28.54	23.61b	121
Five Points Lake (A)	5/25	41	15.6	3.0	--						
Indian Canyon	5/30	0	0.0	0.0	0.0	5/30	2.50	1.71b	22.61	17.37b	130
Jackson Park	5/31	18	7.7	0.8	9.8	5/31	3.31	--	21.71	--	--
Lakefork Basin (A)	5/25	60	22.8	0.0	10.0						
Lakefork Mountain #1	5/31	10	3.8	0.0	0.8	5/31	2.85	2.26	20.85	17.49	119
Lakefork Mountain #3	5/31	0	0.0	0.0	0.0						
Lightning Lake (A)	5/25	70e	33.6	3.0	6.0						
Mosby Mountain	5/31	14	5.7	0.0	2.2	5/31	3.39	2.65a	21.76	15.91a	137
Paradise Park	5/31	25	11.2	0.0	8.2	5/31	2.52	2.50	21.64	20.56	105
Rock Creek	5/31	0	0.0	0.0	0.0	5/31	2.00	1.59	18.23	14.79	123
Strawberry Divide	6/1	0	0.0	0.0	0.0						
PRICE RIVER											
Dry Valley Divide	5/30	0	0.0	0.0	0.0						
Gooseberry Reservoir	5/30	14	8.4	0.0	0.0	5/30	3.50	2.04	37.04	23.62	157
Jones Ranch	5/30	0	0.0	0.0	0.0						
Mud Creek	5/30	0	0.0	0.0	0.0	5/30	2.30	1.66	23.90	18.56	129
White River #1	5/30	0	0.0	0.0	0.0	5/30	2.25	--	22.15	--	--
White River #2	5/30	0	0.0	0.0	0.0						
White River #3	5/30	0	0.0	0.0	0.0						
SAN RAFAEL RIVER											
Buck Flat	5/30	21	11.4	0.0	0.0	5/30	4.00	2.15	32.05	22.43	143
Huntington-Horseshoe	5/30	54	30.8	1.2	--						
Orange Olsen	5/30	0	0.0	0.0	0.0	5/30	1.70	.79a	13.35	10.85a	123
Red Pine Ridge	5/30	3	1.6	0.0	0.0	5/30	3.90	1.93	33.18	25.74	129
Rush Pond	5/30	4	2.2	0.0	0.0						
Seeley Creek R.S.	5/30	32	16.8	0.0	0.0	5/30	4.60	--	--	--	--
Stuart R.S.	5/30	0	0.0	0.0	0.0	5/30	1.75	1.40b	20.05	15.72b	128
Upper Joe's Valley	5/30	0	0.0	0.0	0.0						
Wrigley Creek	5/30	0	0.0	0.0	0.0						
MUDDY RIVER											
Black's Fork	5/30	4	1.9	0.0	--						
Dill's Camp	5/30	0	0.0	0.0	--	5/30	3.20	--	28.23	--	--
FREMONT RIVER											
Black's Flat-U.M. Creek	5/23	0	0.0	0.0	0.0	5/24	3.50	1.81	22.28	16.28	137
Fish Lake	5/23	0	0.0	0.0	0.0	5/24	2.00	1.39	17.50	12.39	141
Johnson Valley	5/23	0	0.0	0.0	--						

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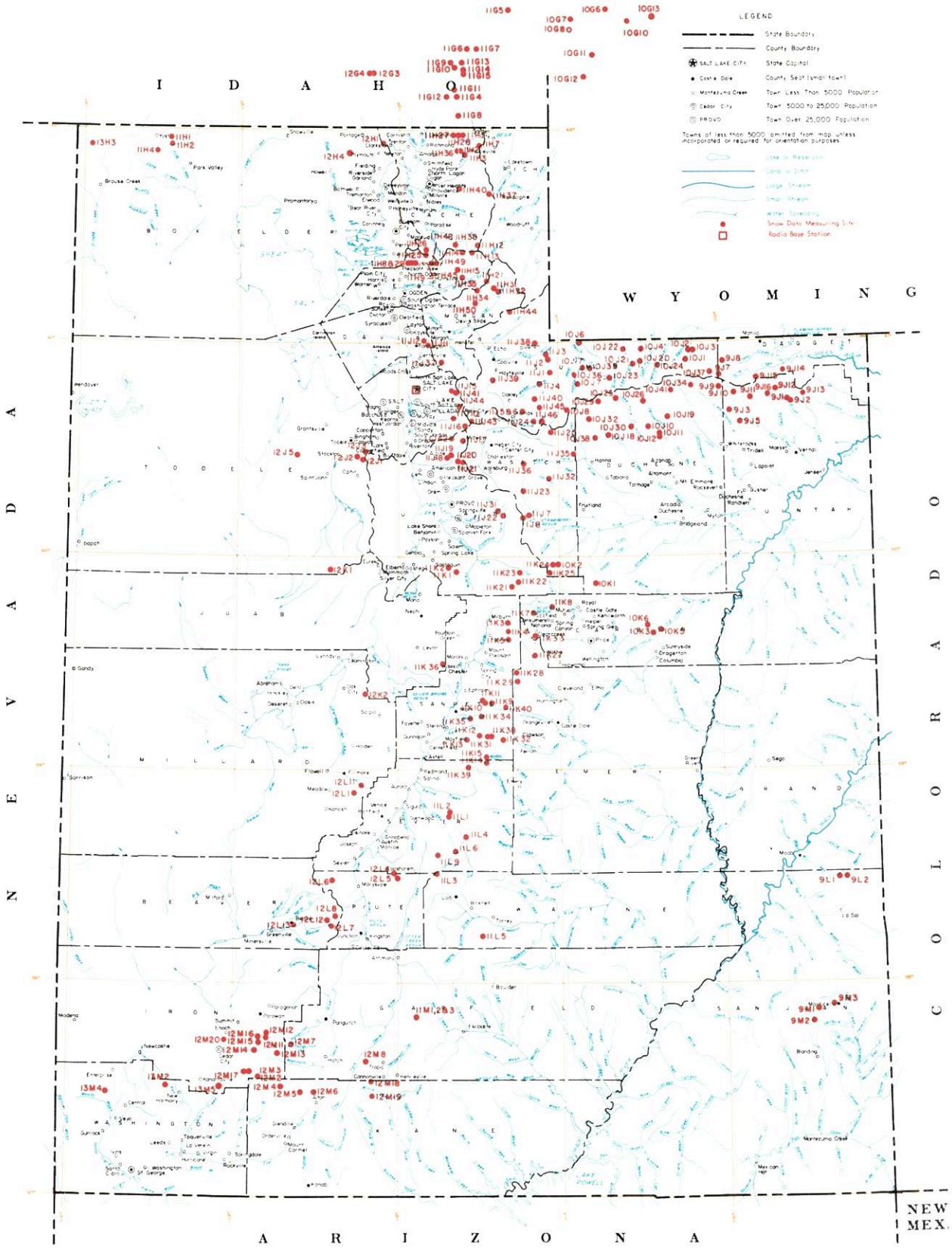
DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches) Last Year	2 Years Ago	CURRENT INFORMATION Date of Reading	Month's Precipitation	Average +	FROM APPROX. OCT 1 TO DATE This Year	Average +	Percent of Average
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	5/31	0	0.0	0.0	0.0	5/31	2.03	1.73	19.55	22.26	88
Camp Jackson	5/31	0	0.0	0.0	0.0	5/31	2.25	1.33[b]	26.01	19.38[b]	134
LaSal Mountain (lower)	5/30	0	0.0	0.0	0.0						
LaSal Mountain (upper)	5/30	5	2.3	0.0	0.0	5/30	1.94	2.31[b]	27.96	20.57[b]	136
Monticello City Park	5/31	0	0.0	0.0	0.0						
ESCALANTE RIVER											
Widtsoe-Escalante Summit		Not Measured		1.6e	0.0						
Widtsoe-Escalante #2		"	"	2.4e	0.4						
Widtsoe-Escalante #3	5/30	0	0.0	2.4e	0.6	5/30	2.10	1.66	20.98	17.10	123
VIRGIN RIVER											
Kolob-Crystal	5/24	40	22.8	0.0	0.0						
Long Valley Junction	5/24	0	0.0	0.0	0.0						
Webster Flat	5/24	21	11.4	0.0	0.0	5/24	2.00	1.90[b]	38.20	24.98[b]	153
ADDITIONS and CORRECTIONS TO PREVIOUSLY PUBLISHED 1978 DATA											
JANUARY 1, 1978											
No corrections											
FEBRUARY 1, 1978											
Salt River Summit						1/30	4.88	3.77	16.75	10.81	155
Tony Grove Lake	1/31	102	37.4	4.5	--						
Box Creek	1/30	29	7.3	2.9	--						
Shingle Mill	2/1	31	7.8	2.1	4.7[b]						
Merchants Valley Upper	1/30	38	9.2	3.5	--						
Johnson Valley	1/30	24	6.9	1.0	--						
MARCH 1, 1978											
Clear Creek Ridge #1	3/8	69	23.9	5.0	15.1						
Clear Creek Ridge #2	3/8	52	16.0	4.6	11.3	3/8	4.60	2.78	17.70	12.52	141
Clear Creek Ridge #3	3/8	28	9.6	2.0	6.9						
Silver Lake (Brighton)						3/1	6.52	4.94	24.95	22.67	110
APRIL 1, 1978											
North Fork	3/31	42	18.9	--	--						
Timpanogos Divide						4/1	10.85	3.41	37.62	24.50	154
Mt. Dell Dam						4/1	4.14	2.27	14.95	13.35	112
Silver Lake (Brighton)						4/1	5.91	5.02	30.86	27.69	111
Long Flat	4/1	18	7.6	0.5	4.8						
Grassy Trail-Left Fork	3/31	42	15.9	0.0	8.2						
Timberline	3/31	58	20.5	3.3	14.1[b]						
Buckboard Flat	3/28	25	12.9	2.4	11.8						
MAY 1, 1978											
Shingle Mill	5/3	0	0.0	0.0	1.9[b]	5/3	4.40	3.56[b]	23.45	17.27[b]	136
Mud Creek	4/26	25	12.3	0.0	7.7						
Black's Fork	4/26	42	21.3	0.0							
Camp Jackson	4/28	18	8.4	0.0	4.5[b]						
LaSal Mountain (upper)	4/29	52	23.8	0.0	11.7[b]						

a - Partly Estimated
b - Average of all past record - less than 15 years
+ - 1958-72 15 year average period
(A) - Aerial Marker Reading
e - Estimated

+ 1958-1972 period.

USDA-SCS-PORTLAND, OR 1977 M7-9-22027 D



SNOW COURSES AND RELATED DATA MEASURING SITES

UTAH

1978

USGS National Atlas 1:1,000,000 Albers Equal-Area projection (1967) used as source for base map and adapted for SCS use.

SCALE 1:1,500,000

ALBERS EQUAL AREA PROJECTION

INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

NO	STATE	NAME	SEC	TWP	RGE	ELEV
		UPPER BEAR RIVER (above Harer, Idaho)				
10G11	W	Big Park	7	27N	117W	8,700
10J6P	U	Burts-Miller Ranch	19	3N	10E	7,900
10G7	W	CCC Camp x	9	29N	118W	7,500
10J36p	U	Gold Hill	11	1N	9E	10,000
10J7PST	U	Hayden Fork	25	1N	9E	9,400
10G12	W	Kelly Ranger Station	13	26N	118W	8,200
10G17S	W	LaBarge Guard Station x	7	30N	116W	9,000
10J35p	U	Lily Lake	34	2N	10E	9,300
11H12PST	U	Monte Cristo R.S.	4	8N	4E	8,960
10G10	W	Piney LaBarge x	19	29N	114W	8,820
10G6	W	Poison Meadows x	29	30N	116W	8,500
10G8P	W	Salt River Summit x	32	29N	118W	7,900
10G13MP	W	Snyder Basin x	15	29N	115W	8,400
10J17P	U	Stillwater Camp	32	2N	10E	8,550
		LOWER BEAR RIVER (below Harer, Idaho)				
11H37pST	U	Bug Lake	18	11N	5E	7,950
11H36p	U	Bunchgrass	5	13N	3E	8,400
11G11	I	Christensen Ranch	27	13S	41E	5,600
11H38p	U	Cinnamon Creek	5	8N	3E	7,300
12H1p	U	Clarkston Mountain	29	14N	2W	6,300
11G12	I	Cub River Ranger Station	5	15S	41E	5,400
11G14a	I	Dry Basin	30	13S	42E	7,900
12G4	I	Dry Creek Flat	31	13S	37E	6,350
11G6	I	Emigrant Summit	21	12S	42E	7,350
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6,500
11G8MPST	I	Franklin Basin	1	16S	41E	8,000
11H7MP	U	Garden City Summit	34 & 35	14N	4E	7,600
13H4PST	U	George Peak	4	13N	4W	9,000
11H40p	U	Herd Hollow	4	11N	3E	7,000
11G15a	I	Horseshoe Basin	31	13S	42E	8,000
11H1MP	U	Klondike Narrows	10	14N	3E	7,400
11G13	I	Liberty Springs	7	13S	42E	8,240
11H26	U	Little Bear (lower)	15	8N	1E	6,000
11H25PST	U	Little Bear (upper)	22	8N	1E	6,550
12G3	I	Oxford Mountain	32	13S	37E	6,800
11G5	I	Slug Creek Divide	15	10S	44E	7,225
11H27	U	Steep Hollow #1	7	14N	3E	8,500
11H28	U	Steep Hollow #2	9	14N	3E	7,700
11G9	I	Strawberry Creek	9	13S	41E	5,800
11G10	I	Strawberry Mink Divide	14	13S	41E	6,800
11H2PST	U	Tony Grove Lake	5	13N	3E	7,400
11H3MP	U	Tony Grove Ranger Station	11	13N	3E	6,250
11G4P	I	Willow Flat	2	15S	41E	6,100
		OGDEN RIVER				
11H14M	U	Beaver Creek-Skunk Creek	22	8N	3E	7,150
11H8PST	U	Ben Lomond Peak	3	7N	1W	8,000
11H9PST	U	Ben Lomond (lower)	1	7N	1W	6,000
11H35p	U	Causey Dam	34	7N	3E	5,500
11H29	U	Cutler Creek	3	7N	1W	6,780
11H13MPST	U	Dry Bread Pond	19	8N	4E	8,230
11H34p	U	Guilder's Peak	21	6N	4E	8,050
11H45p	U	Middle Fork Ogden	16	7N	2E	8,420
11H4Y	U	Powder Mountain Hideaway	6	7N	2E	8,250
11H48	U	Powder Mountain Sundown	1	7N	1E	8,400
11H15P	U	Sagebrush Flat	21	7N	3E	6,300
		WEBER RIVER				
11J24	U	Beaver Creek R.S.	28	2S	7E	7,500
11J1PST	U	Chalk Creek #1	4	1N	8E	9,100
11J2MPST	U	Chalk Creek #2	29	2N	8E	8,200
11J3MP	U	Chalk Creek #3	7	2N	8E	7,500
11J12P	U	Farmington Canyon (lower)	14	3N	1E	6,950
11J11PST	U	Farmington Canyon (upper)	26	3N	1E	8,000
11H44p	U	Francis Canyon	29	5N	6E	7,400
11J45a	U	East Shingle Lake	6	3N	10W	9,800
11J37p	U	Hardscrabble	16	2N	2E	6,500
11H21PST	U	Horse Ridge	1	6N	4E	8,260
11H31P	U	Kilfoil Creek	20	6N	5E	7,300
11H32P	U	Lost Creek	27	6N	5E	6,125
11J43	U	Park City Summit	20	2S	4E	9,300
11J15PST	U	Parley's Canyon Summit	5	1S	3E	7,500
11H50	U	Pine Canyon	6	5N	4E	8,000
11J38p	U	Porcupine	22	3N	7E	8,100
11J6	U	Redden Mine (lower)	1	2S	6E	8,500
11J5P	U	Redden Mine (upper)	1	2S	6E	9,000
11J39p	U	Sergeant Lakes	17	1N	5E	8,400
11J40p	U	Shingle Mill Flat	15	1S	7E	9,900
11J4PST	U	Smith & Morehouse	25	1N	7E	7,600
		PROVO RIVER & UTAH LAKE				
11J46PST	U	Beaver Creek Divide	25	2S	7E	8,000
11J20	U	Camp Altamont	29	4S	3E	7,300
11K21PST	U	Clear Creek Ridge #1	18	11S	6E	9,200
11K22PST	U	Clear Creek Ridge #2	9	11S	6E	8,000
11K23	U	Clear Creek Ridge #3	27	10S	6E	6,600
11J17P	U	Dutchman R.S.	27	3S	3E	7,560
11J22P	U	Hobble Creek Summit	27	7S	5E	7,420
11J36P	U	Lake Creek	36	4S	6E	9,100
11J31	U	Packard Canyon	21	7S	5E	6,400
11K1P	U	Payson R.S.	30	10S	3E	8,050
11K2	U	Rock Bridge	14	10S	2E	6,750
11J25P	U	Soapstone R.S.	9	3S	8E	7,800
11J19	U	South Fork R.S.	24	4S	2E	6,100
11J18P	U	Timpanogos Cave Camp	27	4S	2E	5,500
11J21PST	U	Timpanogos Divide	33	4S	3E	8,140
10J8PST	U	Trial Lake	5	2S	9E	9,800
		JORDAN RIVER & GREAT SALT LAKE				
1	U	Bevan's Cabin	24	4S	4W	6,450
1	U	Deseret Peak	15	4S	7W	9,250
11J41P	U	Lamb's Canyon #2	21	1S	3E	7,400
12J3P	U	Middle Canyon	8	4S	3W	7,000
11J44	U	Mill Creek	32	1S	3E	5,500
11J10	U	Mill D South Fork	18	2S	3E	7,400
12J1P	U	Rocky Basin-Settlement Canyon	30	4S	3W	8,900
11J16P	U	Silver Lake (Brighton)	35	2S	3E	8,725
11J42	U	Snow Bird (Gad Valley)	18	3S	3E	10,000
12K1PST	U	Vernon Creek	21	10S	5W	7,500
		UPPER SEVIER RIVER (South of Richfield, Utah)				
12L4PST	U	Box Creek	33	26S	2W	9,800
12M8	U	Bryce Canyon	36	36S	4W	8,000
12M13PST	U	Castle Valley	23	36S	8W	9,700
12M4P	U	Duck Creek R.S.	11	38S	8W	8,700
12M1B	U	Farview	32	37S	4W	8,200
12M5PST	U	Harris Flat	24	38S	7W	7,700
11L9p	U	High-Top Mountain	36	25S	1E	11,400
12L6P	U	Kimberly Mine	11	27S	5W	9,300
12M2MPST	U	Midway Valley	26	37S	9W	9,800
12M7P	U	Panguitch Lake	4 & 5	36S	7W	8,200
12M19	U	Rainbow Point	29	38S	4W	9,100
12L5	U	Squaw Springs	3	27S	2W	9,300
11M4p	U	Widtsoe R.S.	22	34S	2W	7,600
		LOWER SEVIER RIVER (Including San Pitch River)				
11K13P	U	Beaver Dam	27	19S	3E	8,000
11L1PST	U	Farnsworth Lake	27 & 33	23S	2E	9,900
11K11P	U	G.B.R.C. Headquarters	21	17S	4E	8,700
11K10P	U	G.B.R.C. Meadows	26 & 27	17S	4E	10,000
11L2PST	U	Gooseberry R.S.	22	23S	2E	8,400
11K3MPST	U	Mammoth R.S.-Cottonwood Creek	13	13S	5E	8,800
11K34	U	Middle Fork	16	18S	4E	9,600
11K12P	U	Mt. Baldy R.S.	19	19S	4E	9,500
12K2P	U	Oak Creek	9	17S	3W	7,760
11K39PST	U	Pickle Keg Springs	4	21S	3E	9,600
12L1PS	U	Pine Creek	24	22S	4W	8,700
11K36	U	Rees's Flat	20	15S	2E	7,300
12L11P	U	Shingle Mill	5	22S	3W	6,200
11K3S	U	Thistle Flat	23	18S	3E	8,500
		BEAVER RIVER				
12L13	U	Beaver Race Track	23	29S	7W	6,020
12L7PST	U	Big Flat	18	29S	4W	10,290
12L9PST	U	Merchant's Valley (upper)	8 & 9	29S	5W	8,200
12L8	U	Otter Lake	1	29S	5W	9,300
		PAROWAN CREEK				
12M16	U	Birch Crossing	23	35S	9W	8,100
12M14	U	Brian Head	10	36S	9W	10,000
12M12	U	Ed Ward Flat	17	35S	9W	8,300
12M15P	U	Tall Poles	26 & 35	35S	9W	8,800
12M11P	U	Yankee Reservoir	20	35S	8W	8,700
		ENTERPRISE TO NEW HARMONY DRAINAGES				
13M4MP	U	Little Grassy Creek	15	38S	17W	6,100
13M2MPST	U	Long Flat	2	38S	14W	8,000
		COAL CREEK				
12M20	U	Cedar City Golf Course	11	36S	11W	5,800
12M17	U	SUSC Ranch	18	37S	9W	8,200

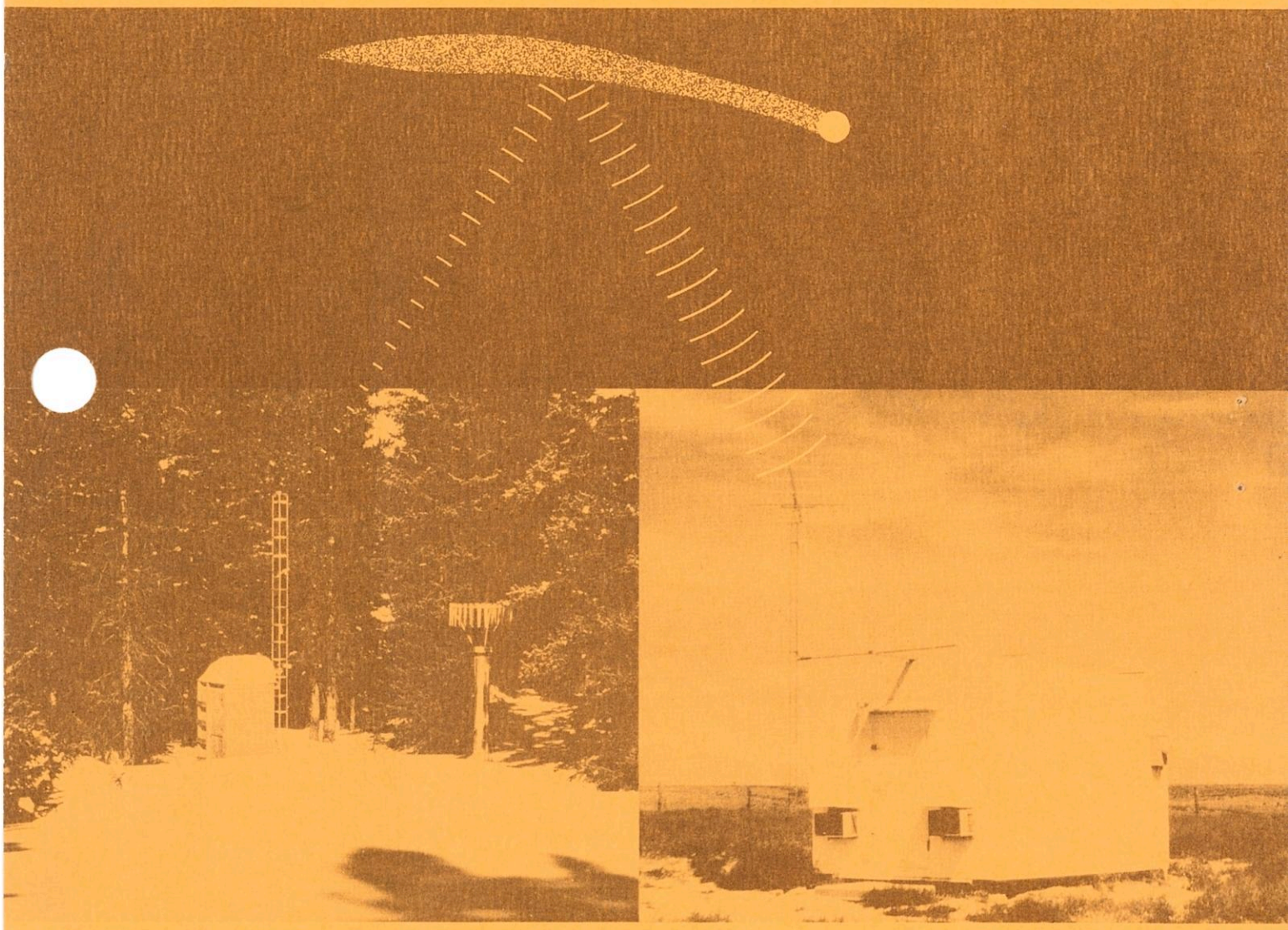
COLORADO RIVER DRAINAGE

NO	STATE	NAME	SEC	TWP	RGE	ELEV
		UPPER GREEN RIVER IN UTAH (above Duchesne River)				
9J11aP	U	Ashley Twin Lakes	20	1S	19E	10,500
10J21P	U	Black's Fork G.S.-East Fork	25	2N	12E	9,300
10J22P	U	Black's Fork Junction	33	3N	12E	8,925
10J23a	U	Buck Pasture	14	1N	11E	9,700
9J14P	U	Burnt Creek	4	1N	20E	7,900
9J13P	U	Grizzly Ridge	8	1S	22E	8,500
10J24ap	U	Henry's Fork	29	2N	14E	10,000
10J4P	U	Hewinta G.S.	33	3N	13E	9,500
9J8P	U	Hickerson Park	24	2N	17E	9,100
9J15p	U	Highline Trail	23	1N	19E	10,250
10J1	U	Hole-in-the-Rock	13	2N	15E	9,150
10J3	U	Hole-in-the-Rock G.S.	32	3N	16E	8,300
9J2	U	King's Cabin (lower)	23 & 26	1S	21E	8,600
9J1PST	U	King's Cabin (upper)	22	1S	21E	8,730
10J37p	U	McCoy Park	6	1N	17E	10,680
10J2	U	Middle Beaver Creek	31	3N	16E	8,550
9J10aP	U	Reynolds Park	9	1S	18E	10,400
9J7P	U	Spirit Lake	10	1N	17E	10,300
10J20PST	U	Steel Creek Park	17	2N	13E	9,900
9J16PST	U	Trout Creek	9	1S	20E	9,200
9J12ap	U	Windy Park	1	1S	20E	9,400
		DUCHESNE RIVER				
10J41ap	U	Atwood Lake	13	4N	4W	10,500
10J30PST	U	Brown Duck Ridge	8	2N	6W	10,800
9J9ap	U	Chepeta-Whiterocks Lakes	3	1S	17E	10,300
11J32MPST	U	Currant Creek	31	1S	10W	7,800
11J23MPST	U	Daniels-Strawberry Summit	20	2S	12W	8,000
11J7P	U	East Portal	36	7S	6E	7,560
10J26ap	U	Five Point Lake	28	4N	5W	11,000
10K1PST	U	Indian Canyon	2	11S	10E	9,100
10J19P	U	Jackson Park	23	3N	4W	11,300
10J34p	U	Kidney Lake	28	5N	3W	11,000
10J39P	U	Lake Basin	23	3S	8W	10,800
10J25ap	U	Lakefork Basin	13	4N	7W	11,100
10J10PST	U	Lakefork Mountain	2 & 3	2N	5W	10,200
10J11	U	Lakefork Mountain #2	17	2N	4W	8,900
10J12	U	Lakefork Mountain #3	29	2N	4W	8,100
10J29ap	U	Lightning Lake	24	4N	8W	10,950
9J5PST	U	Mosby Mountain	27	2S	18E	9,500
9J3P	U	Paradise Park	7	3N	1E	10,100
10J18P	U	Rock Creek	21	2N	7W	7,900
10J32p	U	Shadow Lake	28	3N	8W	10,150
11J8PST	U	Strawberry Divide	34 & 35	7S	6E	8,000
11J35P	U	West Fork of the Duchesne	22	1N	19E	10,250
		PRICE RIVER				
10K5M	U	Corral	32	13S	14E	8,200
11K8	U	Dry Valley Divide	20	12S	8E	7,800
10K3M	U	Grassy Trail Creek-Left Fork	2	14S	13E	7,970
11K7	U	Jones Ranch	32	12S	7E	7,600
11K33MP	U	Mud Creek	4	14S	7E	8,300
10K6	U	Timberline	28	13S	13E	9,100
10K2MPST	U	White River #1	11	10S	3E	8,550
11K24	U	White River #2	9	10S	8E	7,600
11K25	U	White River #3	30	10S	8E	7,400
		SAN RAFAEL RIVER				
11K31PST	U	Buck Flat	23	19S	4E	9,400
11K4P	U	Gooseberry Reservoir	25	13S	5E	8,700
11K5	U	Huntington-Horseshoe	12	14S	5E	9,800
11K40P	U	Orange Olsen	31	17S	6E	7,300
11K28PST	U	Red Pine Ridge	5	16S	6E	9,400
11K38	U	Rush Pond	24	19S	4E	9,800
11K9PST	U	Seeley Creek	25	17S	4E	10,000
11K27P	U	Stuart R.S.	8 & 9	15S	7E	7,950
11K29	U	Upper Joe's Valley	21	16S	6E	8,900
11K32	U	Wrigley Creek	27	19S	5E	9,000
		MUDDY RIVER				
11K14	U	Black's Fork	34	20S	4E	9,200
11K15PST	U	Dill's Camp	27	20S	4E	9,200
		FREMONT RIVER				
11L4P	U	Black's Flat-U.M. Creek	33	24S	3E	9,250
11L5	U	Donkey Reservoir	9	30S	4E	9,800
11L3P	U	Fish Lake	35	26S	1E	8,700
11L6	U	Johnson Valley	24	25S	2E	8,850
		SOUTHEASTERN UTAH DRAINAGES				
9M1P	U	Buckboard Flat	36	33S	22E	9,000
9M2P	U	Camp Jackson	22	34S	22E	8,600
9L1	U	LaSal Mountain	5	27S	24E	8,800
9L2P	U	LaSal Mountain (upper)	3	27S	24E	9,400
9M3	U	Monticello Park	25	33S	23E	7,050
		ESCALANTE RIVER				
11M1	U	Widtsoe-Escalante Summit	22	34S	1W	9,500
11M2PST	U	Widtsoe-Escalante #2	22	34S	1W	9,500
11M3PST	U	Widtsoe-Escalante #3	22	34S	1W	9,500
		VIRGIN RIVER				
13M5PST	U	Kolob-Crystal	2	38S	11W	9,250
12M6	U	Long Valley Junction	22	38S	6W	7,500
12M3MPST	U	Webster Flat	20	37S	9W	9,200
		RAFT RIVER				
13H2a	U	Clear Creek Meadows	26	14N	14W	9,050
13H4P	U	George Peak	4	13N	4W	9,000
13H1	U	One Mile Summit	19	14N	14W	7,330
13H3a	U	ViPont	17	14N	17W	7,670

LEGEND
Numbering System (example)

10J7	Snow Course Only
10J7P	Snow Course and Precipitation Gage
10J7M	Snow Course and Soil Moisture Station
10J7A	Snow Course and Aerial Marker
10J7MA	Snow Course, Soil Moisture Station and Aerial Marker
10J7MP	Snow Course, Soil Moisture Station and Precipitation Gage
10J7a	Aerial Marker Only
10J7p	Storage Precipitation Gage Only
9J7PS	Snow Course, Precipitation Gage, Snow Pillow and Temperature
10J7PST	Snotel Data Site

WATER SUPPLY OUTLOOK FOR UTAH



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

UTAH STATE DEPARTMENT OF NATURAL RESOURCES
-- DIVISION OF WATER RIGHTS

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
OCT. 1, 1978

WATER SUPPLY OUTLOOK FOR UTAH

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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SNOW SURVEY SECTION
4012 FEDERAL BUILDING
SALT LAKE CITY, UTAH 84138

USDA-SCS-PORTLAND, OR. 1977, M7-L-22027B

WATER SUPPLY OUTLOOK

SUMMARY
as of
October 1, 1978

****
* Utah's 1977 water supply ranged from "below average" in Uintah Basin and for some users on the Sevier River to "above average" for most of the remainder of the state. May-July streamflow, according to provisional measurements by the U.S. Geological Survey, was generally in the range forecast last spring. Carry-over reservoir storage as of October 1st was above average except in Uintah and Sevier Basins. *
****

In contrast to a year ago when most of the state had an extremely low amount of snow water but was saved by summer rainfall in abundant amounts, this year produced adequate snow melt runoff but had very little runoff from summer rainfall. Summer temperatures were also above average for a longer period, causing additional water use.

Last year summer precipitation (July, August, and September) accounted for 25 to 60 percent of the total year's moisture. In contrast, this summer produced only 3 to 22 percent of the total annual moisture.

Reservoir storage as of October 1st in 19 major irrigation reservoirs was 114 percent of average, compared to 88 percent of average last year at this time. Reports indicate storage is very low in Moon Lake and Piute reservoirs and only about half average in Otter Creek and Sevier Bridge reservoir. A good snow pack will be needed this year to provide these reservoirs with an adequate water supply for next season.

Provisional streamflow from the Geological Survey indicates that last spring's May-July flows were close to the forecasts in most areas. Flows were generally less than forecast in the Uintah Basin, Sevier Basin, Ogden Basin, and more than forecast on the Beaver, Weber, and Bear Basins.

The following table shows a comparison of the forecasts made May 1st with provisional flow measured by the Geological Survey.

WATER SUPPLY OUTLOOK

Station	Forecast Period	May 1 Forecast (1,000 A.F.)	Measured Flow for the Period (1,000 A.F.)
BEAR RIVER			
Bear nr Ut-Wyo. State Line	May-July	97	108.8
Bear nr Woodruff	May-July	100	110.9
Woodruff Ck nr Woodruff	May-July	12.5	14.7
Bear nr Randolph	May-July	70	48.8
Logan nr Logan	May-July	116	118.1
Blacksmith Fk nr Hyrum	May-July	40	33.6
Little Bear nr Paradise	May-June	20	16.8
WEBER-OGDEN RIVERS			
Weber nr Oakley	May-June	95	108.5
Chalk Creek at Coalville	May-June	18.5	30.4
East Cyn. Creek nr Morgan	May-June	17.2	24.8
South Fk Ogden nr Huntsville	May-June	42	42.5
Pineview Reservoir Inflow	May-June	95	75.5
PROVO RIVER & UTAH LAKE			
American Fk nr American Fk	May-July	35	33.4
Strawberry Res. Inflow	May-July	57	50.2
PRICE RIVER			
Gooseberry Cr. nr Scofield	May-July	15.0	15.6
Scofield Res. Inflow	May-July	47.0	46.0
JORDAN RIVER AND SALT LAKE			
Big Cottonwood nr Salt Lake	May-July	39	37.7
Parley's Creek nr Salt Lake	May-July	11.5	16.1
DUCHESNE RIVER			
Currant Cr. nr Fruitland	May-July	21	15.0
Rock Creek nr Mountain Home	May-July	90	112.0
Lakefork below Moon Lake	May-July	63	67.0
Uinta nr Neola	May-July	76	68.1
Whiterocks nr Whiterock	May-July	50	46.5
Ashley nr Vernal	May-July	45	36.8
Flaming Gorge Inflow	Apr-July	1,342	1,470
SAN RAFAEL RIVER			
Huntington Cr nr Huntington	May-July	56	62.0
UPPER COLORADO BASIN			
Colorado nr Cisco, Utah	Apr-July	3,868	3,884
Green at Green River, Utah	Apr-July	3,733	3,560
Lake Powell Inflow	Apr-July	9,100	8,995
SEVIER RIVER			
Sevier nr Hatch	May-July	55	44.9
BEAVER RIVER			
Beaver nr Beaver	May-July	26	33.6

SNOTEL STATUS REPORT

The Soil Conservation Service Snow Telemetry (SNOTEL) System is in operation. The 30 sites of Phase I and 10 sites of 28 on Phase II are in operation at this time. The second 10 radios on Phase II are expected to be installed by November 1st making a total of 50 sites on SNOTEL prior to this winter season.

Each of these data sites will transmit snow water equivalent, precipitation, and temperature twice daily automatically via meteor burst telemetry. More frequent data can be requested as needed.

The following table shows SNOTEL DATA SITES which are expected to be in operation this winter.

BEAR BASIN

Bug Lake
Franklin Basin
Hayden Fork
Little Bear Upper
Monte Cristo R.S.
Tony Grove Lake

OGDEN BASIN

Ben Lomond Peak
Ben Lomond Trail*
Dry Bread Pond

SPANISH FORK BASIN

Clear Creek #1
Clear Creek #2

LAKE FORK CREEK BASIN

Brown Duck Ridge
Lakefork Mountain #1

BLACKS FORK BASIN

Steel Creek Park

WEBER BASIN

Beaver Divide
Chalk Creek #1
Chalk Creek #2
Farmington Upper
Horse Ridge
Parleys Summit
Smith & Morehouse

PROVO BASIN

Trial Lake
Timpanogos Divide

STRAWBERRY BASIN

Currant Creek
Daniels-Strawberry Summit
Strawberry Divide

ASHLEY CREEK BASIN

Kings Cabin Upper
Mosby Mountain
Trout Creek

PRICE BASIN

White River
Indian Canyon

*Phase II - Not yet installed.

SEVIER BASIN

Box Creek *
Castle Valley*
Farnsworth Lake*
Gooseberry R.S.
Harris Flat*
Kimberly Mine*
Mammoth-Cottonwood
Midway Valley*
Pickle Keg Springs
Widtsoe Summit #3

BEAVER BASIN

Big Flat

VERNON CREEK BASIN

Vernon Creek

COTTONWOOD CREEK BASIN

Red Pine Ridge
Seeley Creek R.S.

FERRON CREEK BASIN

Buck Flat

MUDDY CREEK BASIN

Dills Camp

VIRGIN BASIN

Kolob-Crystal
Long Flat
Webster Flat

The last 13 (Phase III) sites are planned to be installed next summer or fall making a total of 63 sites as planned at the present time.

Reports can be accessed on any one or any group of sites as requested. Data from these sites should provide water users up-to-date information to make better management decisions.

Requests for data should be directed to:

George McMillan
State Conservationist
Soil Conservation Service
Rm. 4012, Fed. Bldg.
125 South State
Salt Lake City, Utah 84138

A dedication and demonstration of the SNOTEL SYSTEM will be held in December. Watch for the date to be announced in your local paper.

*Phase II - Not yet installed

WSFB-X2-L

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

October 1, 1978

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average+
GREAT BASIN					
Bear River	Bear Lake	1421.0	959.7	787.5	985.9
	Woodruff Narrows	26.5	14.5	0.0	13.2
Beaver River	Minersville (RkyFd)	23.3	5.5	0.0	4.4
Little Bear	Hyrum	15.3	7.1	3.8	7.0
	Porcupine	11.3	1.1	0.6	2.0
Ogden	Causey	6.9	1.9	1.0	1.7
	Pineview	110.1	70.5	32.9	44.4
Provo	Deer Creek	149.7	9.4	57.0	92.4
Settlement Creek	Settlement Creek	1.2	0.4	--	--
	Vernon Creek	0.6	0.1	--	--
Sevier River	Gunnison	18.2	3.7	0.0	2.7
	Otter Creek	52.5	8.3	6.2	14.6
	Piute	71.8	0.0	4.7	13.6
	Sevier Bridge	236.0	23.2	37.7	41.9
Spanish Fork	Strawberry	270.0	150.2	136.6	107.9
Utah Lake	Utah Lake	883.9	628.3	505.6	438.9
Weber	East Canyon	48.1	31.1	15.7	18.5
	Echo	73.9	34.4	21.0	20.9
	Lost Creek	20.0	14.6	8.6	13.2
	Rockport	60.9	51.9	19.2	33.6
	Willard Bay	193.3	165.2	100.5	146.2
COLORADO RIVER BASIN					
Ashley Creek	Steinaker	33.3	7.8	3.0	16.9
Colorado	Blue Mesa	829.5	727.8	220.8	--
	Lake Powell	25002.0	16,563.0	16,144.0	--
Green	Flaming Gorge	3749.0	2,825.1	2,079.1	--
Lakefork	Moon Lake	35.8	2.2	--	--
Price River	Scofield	65.8	39.4	17.7	27.1
San Juan	Navajo	1696.0	1,237.0	1,038.1	--
San Rafael	Huntington North	3.9	0.1	1.4	0.9
	Joe's Valley	54.6	40.7	35.7	35.7
	Mill Site	16.7	4.8	3.0	--
Strawberry	Starvation	165.3	123.0	103.3	--
Uintah	Bottle Hollow	11.3	**	9.7	--

** = Data Delayed + = 15 year average period 1958-72

USDA-SCS-PORTLAND, OREG. 1969

U T A H P R E C I P I T A T I O N D A T A

1978 WATER YEAR

STATION NAME	OCT.-DEC.		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY-SEPT.		TOTAL
B E A R R I V E R B A S I N																	
BUG LAKE															9/27		31.20
BURTS-MILLER	12/27	3.79	1/24	1.85	2/28	1.20	3/27	2.10	4/26	2.68	5/31	3.62	6/20	.84	9/28	2.45	18.53
FRANKLIN BASIN															7/26		46.71
GARDEN CTY SMT	12/30	14.70	1/30	3.30	2/24	2.54	3/29	2.85	4/24	3.06	5/30	2.84	6/29	.89	9/27	4.48	34.66
GOLD HILL													6/20	35.55	9/27	3.90	39.45
HAYDEN FORK	12/27	11.91	1/24	3.76	2/28	3.35	3/27	3.70	4/26	4.59	5/31	4.35	6/20	.95	9/21	3.93	36.54
HERD HOLLOW															9/29		33.45
LILY LAKE													6/20	24.36	9/27	2.98	27.34
LITTLE BEAR UP															10/04		40.58
KLONDIKE NRWS			1/27	20.91	2/24	2.76	3/30	4.00	4/25	4.06	5/30	3.67	6/29	.39	9/29	4.71	40.50
MONTE CRISTO	1/09	16.41	1/27	3.45	2/23	3.43	3/29	5.26	4/24	4.44	5/30	6.12			9/20	7.66	46.77
SALT RIVER SMT	12/29	11.87	1/30	4.88	2/27	3.58	3/30	1.92	4/27	2.75	5/30	3.25	6/30	.75			
STILLWATER CMP	12/27	7.01	1/24	1.88	2/28	1.98	3/27	2.49	4/26	2.73	5/31	3.66	6/20	.74	9/28	2.38	22.87
TONY GROVE RS	12/30	14.38	1/30	2.92	2/24	2.33	3/29	3.32	4/25	3.32	5/30	2.46	6/29	.49	*		
WILLOW FLAT	1/04	18.90	1/30	4.89	2/24	3.11	3/30	5.82	4/25	5.08	*		6/29	.03	9/29	6.02	
W E B E R - O G D E N R I V E R B A S I N S																	
BEN LOMOND LOW	1/04	14.67	1/27	7.31	2/23	7.37	3/29	7.86	4/24	6.93	*	* 1 94	6/22	.05	*		
BEN LOMOND PK															8/31		57.93
CAUSEY DAM	1/05	6.88	1/27	1.89	2/23	1.53	3/29	2.63	4/24	2.95	5/30	1.99	6/28	.75	9/20	5.14	23.76
CHALK CREEK 1													6/19	37.89	9/25	5.91	43.80
CHALK CREEK 2													6/19	24.54	9/25	6.88	31.42
CHALK CREEK 3	12/27	7.40	1/24	2.00	2/28	1.73	3/27	2.47	4/26	4.45	5/31	3.92	6/19	.45	9/25	4.15	26.57
DRY BREAD POND	*		1/27	3.85	2/23	3.25	3/29	4.84	4/24	4.02	5/30	4.42			*		
FARMINGTON GS	1/09	15.40	1/27	6.39	2/23	6.40	3/29	8.14	4/24	9.05	5/30	5.69	7/06	.85	10/05	7.80	59.72
FARMINGTON LWR	1/09	13.60	1/27	6.50	2/23	6.30	3/29	7.63	4/24	7.97	*		7/06	.43	10/05	7.45	
FRANCIS CANYON															10/02		25.45
GUILDERS PEAK															10/02		35.91
HORSE RIDGE	1/09	15.87	1/27	2.75	2/23	3.03	3/29	4.91	4/24	4.67	5/30	4.84	7/06	.82	9/25	6.60	43.49
LOST CREEK	1/09	6.32	1/27	1.80	2/23	1.66	3/29	2.71	4/24	2.56	5/30	1.82	7/06	.83	10/02	3.90	21.60
MIDDLE FK OGDN															10/04		57.53
PARLEY CYN SMT	12/28	11.23	1/30	5.34	2/27	4.31	3/30	5.45	4/28	7.29	5/31	3.07	6/21	1.27	9/28	5.12	43.08
PINE CANYON															10/02		37.05
PORCUPINE													6/19	26.26	9/28	4.53	30.79
REDDEN MINE UP			1/25	15.55			3/28	10.20	4/28	5.18	5/31	4.25	6/22	.34	9/27	4.86	40.38
SAGEBRUSH FLAT	1/05	8.20	1/27	2.17	2/23	1.94	3/29	3.08	4/24	2.90	5/30	2.29	6/28	.60	9/20	5.19	26.37

NOTE: BLANK SPACES INDICATE NO READING TAKEN, NEXT READING IS CUMULATIVE(EXCEPT AS NOTED *)
*: GAGE MOLESTED, DATA FOR THIS PERIOD LOST * *: Estimated

U T A H P R E C I P I T A T I O N D A T A

1978 WATER YEAR

STATION NAME	OCT.-DEC.		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY-SEPT.		TOTAL
SERGEANT LAKES													6/21	32.02	9/25	5.22	37.24
SHINGL MIL FLT													7/10	37.70	9/27	6.63	44.33
SM+MOREHOUSE	12/27	9.50	1/24	3.26	2/27	3.12	3/27	4.12	4/26	4.60	5/24	4.64	6/23	.54	9/27	4.17	33.95
BEN LOMOND TRL			1/27	7.49	2/23	7.34	3/29	8.12	4/24	6.95	5/30	2.08	*		*		
U T A H L A K E - J O R D A N R I V E R B A S I N																	
BEAVER DIVIDE															9/21		28.71
CLEAR CR RDG 2	1/04	9.45	1/27	3.65	3/08	4.60	3/29	2.20	4/25	2.20	5/30	3.00	6/30	.12	9/28	3.04	28.26
DANIEL-STR SMT	12/27	10.43	1/24	5.00	2/27	4.70	3/29	5.80	4/25	3.25	5/30	2.55	6/22	.15	9/26	2.73	34.61
DUTCHMAN RS	12/27	11.05	1/24	7.45	2/27	6.60	3/29	7.80	4/25	4.00	5/30	3.10	*		9/29	2.70	
EAST PORTAL	12/30	9.93	1/30	4.56	2/28	3.74	3/30	4.47	5/01	4.38	6/01	1.46	7/01	.40	10/01	3.55	32.49
HOBBLE CK SMT	12/27	6.40	1/24	4.90	2/28	5.40	3/29	6.20	4/25	3.35	* *	1 24	6/29	.00	9/28	1.70	29.19
LAKE CREEK													*		9/26	4.08	
LAMBS CANYON	12/28	9.78	1/30	3.74	2/27	3.38	3/30	4.34	4/28	6.48	5/31	2.31			9/28	5.88	35.91
MIDDLE CANYON	*		1/28	4.90	2/25	4.20	3/31	6.60	4/29	6.00	5/31	3.60	*		9/29	5.75	
PAYSON RS	1/04	7.60	1/27	5.50	3/07	7.55	3/28	2.85	4/25	1.60	5/30	4.30	6/29	.15	9/28	3.10	32.65
ROCKY BASIN-SC							3/31	30.26	5/02	6.97	5/30	4.23	6/28	.20	9/30	6.10	47.76
SILVER LK BRTN	12/30	12.52	2/01	5.91	3/01	6.52	3/31	5.91	5/01	6.29	6/01	2.50	6/30	.48	10/01	6.69	46.82
SOAPSTONE RS	1/05	9.97	1/25	2.01	3/03	4.27	3/28	1.93	4/28	3.87	5/24	2.54	6/20	.22	9/27	1.93	26.74
TIMPANOGOS DIV	12/30	11.70	2/01	7.37	3/01	7.70	4/01	10.85	5/01	5.75	5/31	.90	7/01	.40	10/01	5.10	49.77
TRIAL LAKE	1/05	14.80	1/24	3.47	3/03	7.05	3/28	3.03	4/28	5.62	5/24	2.88	6/20	.55	9/21	3.10	40.50
VERNON CREEK	12/29	3.50	1/28	7.75	2/25	7.25	3/25	8.50	4/30	5.70	5/31	1.20	6/23	.00	9/29	5.25	39.15
D U C H E S N E - G R E E N R I V E R B A S I N																	
ASHLEY TWIN LK															9/25		28.92
ATWOOD LAKE															9/26		23.77
BLACKS FK JCT			1/24	8.49	2/28	1.86	3/27	2.47	4/26	2.56	5/31	5.15	6/20	1.20	9/28	2.80	24.53
BROWN DUCK RDG			1/25	11.19			3/28	6.79	4/28	3.75	5/31	2.82			9/12	2.43	26.98
BUCK PASTURE											5/31	28.68			9/28	4.57	33.25
BURNT CREEK	12/30	2.75	1/30	1.20	2/27	1.30	3/31	2.45	4/27	3.03	6/02	4.77	6/30	.95	9/21	3.48	19.93
CHEPETA WTRDCK															9/26		23.96
CURRANT CREEK	12/29	6.30	1/24	3.33	2/27	3.40	3/29	3.95	4/25	2.40	5/30	1.30	6/22	.33	9/26	1.87	22.88
E FK BLACKS FK			1/24	8.93	2/28	2.00	3/27	2.88	4/26	2.52	5/31	5.05	6/20	1.40	9/28	2.60	25.38
FIVE POINT LK															9/15		29.36
GRIZZLY RIDGE	12/30	3.50	1/30	1.95	2/27	3.65	3/31	3.70	4/27	3.92	6/02	4.10	6/30	.20	9/21	6.10	27.12
HICKERSON PARK			1/24	4.10	2/28	1.20	3/27	2.26	4/28	2.40	5/31	5.45	6/30	1.41	9/21	2.57	19.39
HEWINTA GS			1/24	9.65	2/28	1.94	3/27	2.66	4/26	2.56	5/31	6.15	6/20	1.43	9/28	2.85	27.24
HIGHLINE TRAIL					2/28	10.48	3/27	3.05			5/31	9.72	6/29	1.35	9/25	5.35	29.95

NOTE: BLANK SPACES INDICATE NO READING TAKEN, NEXT READING IS CUMULATIVE(EXCEPT AS NOTED *)
*: GAGE MOLESTED, DATA FOR THIS PERIOD LOST * *: Estimated

U T A H P R E C I P I T A T I O N D A T A

1978 WATER YEAR

STATION NAME	OCT.-DEC.		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY-SEPT.		TOTAL
INDIAN CANYON	1/06	7.41	1/25	2.02	2/27	3.53	3/29	5.35	4/25	1.80	5/30	2.50	6/26	.32	9/27	1.35	24.28
JACKSON PARK			1/25	8.20			3/28	7.13	4/28	3.07	5/31	3.31			9/26	6.00	27.71
KIDNEY LAKES															9/26		29.09
KINGS CABIN UP			1/24	5.35	2/28	3.60	3/27	3.65	4/26	2.52	5/31	3.86	6/30	.34	9/21	5.19	24.51
LAKEFORK BASIN															9/13		39.64
LAKEFORK MTN 1			1/25	9.03	3/06	4.57	3/28	1.16	4/28	3.24	5/31	2.85	6/29	.48	9/26	2.80	24.13
LIGHTNING LAKE															9/13		43.88
MCCOY PARK															9/14		35.66
MOSBY MOUNTAIN			1/25	7.13	3/02	4.10	3/28	3.65	4/28	3.49	5/31	3.39	7/03	.55	9/13	2.77	25.08
PARADISE PARK			1/25	7.15	3/02	4.72	3/28	3.25	4/28	4.00	5/31	2.52	7/03	.68	9/26	3.87	26.19
REYNOLDS PARK															10/02		27.00
ROCK CREEK			1/25	7.90	3/06	4.38	3/28	1.04	4/28	2.91	5/31	2.00	6/28	.40	9/26	3.32	21.95
SHADOW LAKE															9/12		37.60
SPIRIT LAKE			1/24	6.25	2/28	3.12	3/27	2.90	4/28	3.72	5/31	5.75	6/30	1.55	9/26	4.35	27.64
STEEL CRK PARK															9/04		28.44
TROUT CREEK			1/24	4.72	2/28	3.10	3/27	3.05	4/26	2.55	5/31	4.70	6/29	.50	9/25	4.70	23.32
WINDY PARK															*		
W FK DUCHESNE													6/22	34.04	9/26	2.65	36.69
P R I C E - S A N R A F A E L - F R E M O N T R I V E R B A S I N S																	
BLACKS FLAT-UM	1/05	6.42	1/30	3.95	2/24	3.05	3/31	4.70	4/28	1.50	5/23	3.50	7/03	.00	9/26	2.17	25.29
BUCKBOARD FLAT	12/29	3.32	1/30	3.99	2/27	4.31	3/28	4.10	4/28	1.80	5/31	2.03	6/30	.35	9/29	1.53	21.43
BUCK FLAT	1/03	9.75	1/24	4.80	3/06	8.10	3/28	3.00	4/26	2.40	5/30	4.00			10/11	3.33	35.38
CAMP JACKSON	12/29	3.42	1/30	7.40	2/27	5.08	3/28	5.85	4/28	2.01	5/31	2.25	6/30	.13	9/29	1.41	27.55
DILLS CAMP	1/03	8.28	1/24	4.55	3/04	5.90	3/28	4.30	4/26	2.00	5/30	3.20			9/26	3.35	31.58
FISH LAKE	1/05	4.70	1/30	3.40	2/24	2.40	3/31	4.00	4/28	1.00	5/23	2.00	6/30	.20	9/26	2.20	19.90
GOOSEBERRY RES	1/04	11.44	1/27	6.05	3/02	5.90	3/30	6.25	4/26	3.90	5/30	3.50	6/29	.20	9/28	2.85	40.09
LASAL MTN UPR	12/30	6.12	1/31	5.70	2/28	4.45	3/29	6.03	4/29	3.72	5/30	1.94	6/29	.02	9/29	1.52	29.50
MUD CREEK	12/29	7.95	1/24	4.30	2/28	3.30	3/30	3.85	4/26	2.20	5/30	2.30					
ORANGE OLSEN	12/29	2.55	1/25	3.00	3/02	3.50	3/30	2.30	4/26	.30	5/30	1.70			9/28	.95	14.30
RED PINE RIDGE	12/29	10.83	1/24	5.30	3/02	6.15	3/30	4.70	4/26	2.30	5/30	3.90			9/28	2.18	35.36
STUART RS OLD	12/29	6.30	1/24	3.95			3/30	6.80	4/26	1.25	5/30	1.75			9/28	1.05	21.10
WHITE RIVER 1	12/29	7.80	1/24	3.35	2/27	2.55	3/29	4.60	4/25	1.60	5/30	2.25			9/27	1.77	23.92
S E V I E R - B E A V E R R I V E R B A S I N S																	
BEAVER DAMS	1/04	6.17	1/25	4.45	3/06	7.65	3/28	2.70	4/27	1.70	5/30	3.80	7/05	.00	9/26	2.30	28.77
BIG FLAT	1/05	4.78	1/30	8.35	2/24	4.15	3/27	10.00	4/28	3.10	5/23	3.60	7/10	.10	10/06	3.35	37.43
BOX CREEK	1/05	5.78	1/30	3.65	2/24	2.80	3/27	5.35	4/28	2.45	5/23	2.90	7/03	.15	9/26	2.60	25.68

NOTE: BLANK SPACES INDICATE NO READING TAKEN, NEXT READING IS CUMULATIVE(EXCEPT AS NOTED *)
*: GAGE MOLESTED, DATA FOR THIS PERIOD LOST * *: Estimated

U T A H P R E C I P I T A T I O N D A T A

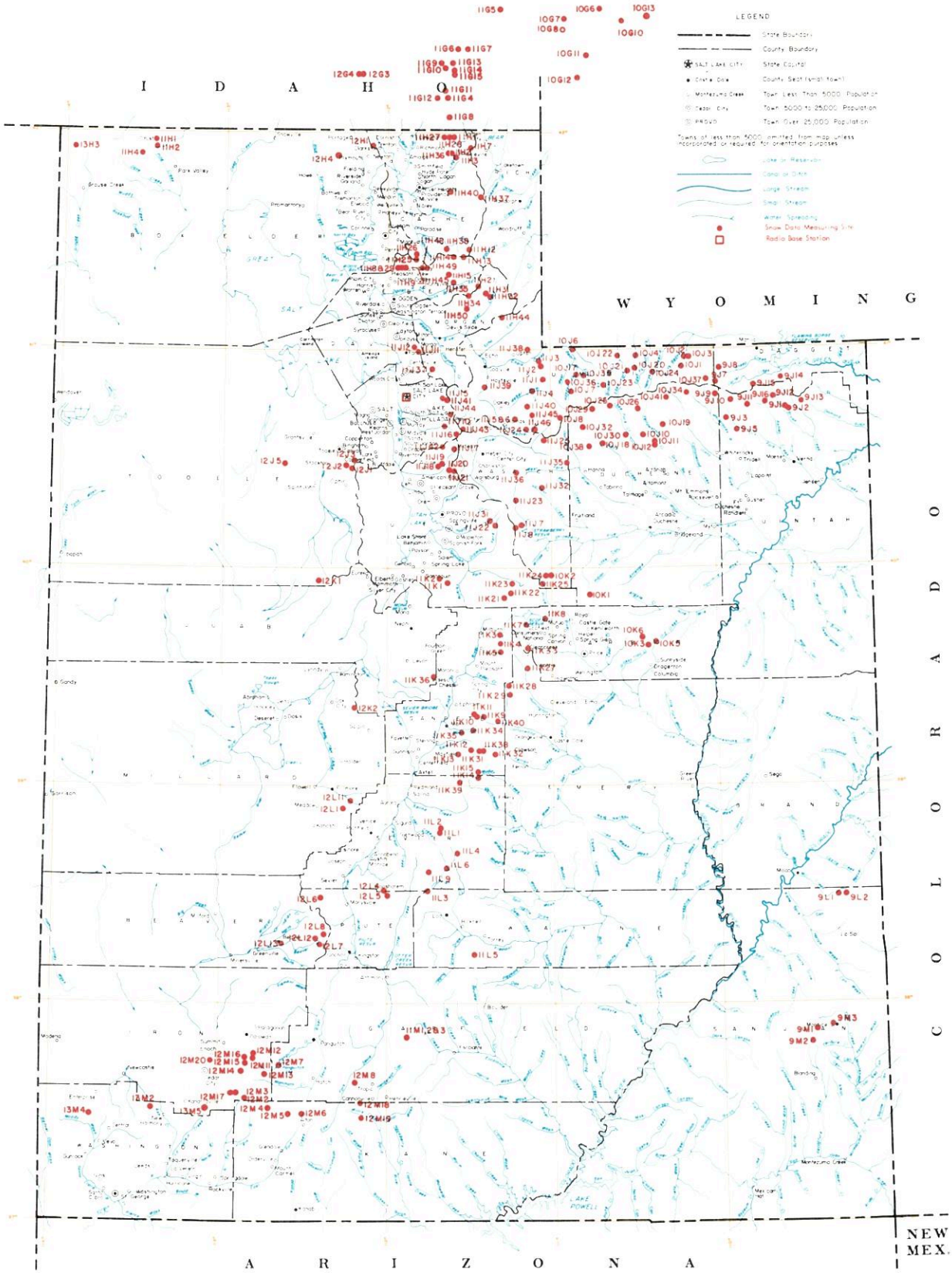
1978 WATER YEAR

STATION NAME	OCT.-DEC.		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY-SEPT.		TOTAL
CASTLE VALLEY	12/29	3.35	1/26	3.75	2/23	4.90	3/27	5.10	4/28	4.30	5/30	2.25	7/07	.07	9/28	3.06	26.78
DUCK CREEK RS	12/29	4.40	1/26	6.10	2/23	7.10	3/31	7.70	* *	6 86	* *	2 56			9/28	4.20	38.92
FARNSWORTH LK	1/05	7.85	1/30	3.35	2/24	4.05	3/30	5.75	4/28	2.80			7/03	4.90	9/27	3.10	31.80
GBRC HEADQTRS	1/03	9.05	1/27	5.00	3/07	6.80	3/28	3.35	4/27	2.70	5/30	2.30	7/01	.00	10/01	3.05	32.25
GBRC MAJORS	1/03	4.27	2/01	3.30	3/01	2.30	3/31	3.23	5/01	2.52	6/01	1.20	7/01	.03	10/01	2.37	19.22
GBRC MEADOWS	1/03	10.95	1/27	5.90	3/07	9.40	3/28	3.60			5/30	9.00	7/01	.10	10/01	3.70	42.65
GBRC OAKS	1/03	5.35	2/01	3.80	3/01	2.95	3/31	3.55	5/01	3.07	6/01	1.63	7/01	.04	10/01	2.75	23.14
GOOSEBERRY RS	1/05	6.45	1/30	3.40	2/24	2.50	3/30	5.60	4/28	2.30	5/23	3.50	7/03	.00	9/27	2.85	26.60
HI-TOP MTN													6/30	26.65	9/26	2.61	29.26
KIMBERLY MINE	1/05	7.05	1/27	5.15	2/24	3.25	3/27	6.50	4/28	4.00	5/23	4.10	7/11	.30	10/06	4.72	35.07
MAMMOTH RS	1/04	12.53	1/27	5.60	3/02	5.50	3/30	6.10	4/26	3.80	5/30	3.30	6/29	.20	9/28	3.05	40.08
MERCHANT VALLY	1/05	5.95	1/27	6.20	2/24	3.63	3/27	9.42	4/28	3.15	5/23	2.80	7/10	.20	10/06	3.83	35.18
MIDWAY VALLEY	12/29	4.25	1/24	6.50	2/23	8.15	3/31	6.90	4/28	6.70	5/24	2.40			9/28	3.50	38.40
MT BALDY RS	1/04	8.00	1/25	5.30	3/06	9.20	3/28	4.00			5/30	7.10	7/05	.00	9/26	2.20	35.80
OAK CREEK	12/28	4.35					3/28	17.73	5/01	6.68			7/07	.00	9/29	4.02	32.78
PANGUITCH LAKE	12/29	2.00	* *	3 00	2/23	2.30	3/27	2.70	5/02	3.40	5/30	.60	7/07	.04	9/28	3.21	17.25
PICKLE KEG SPG															8/08		34.74
PINE CREEK	1/05	7.75	1/27	11.30	2/24	5.35	3/27	10.55	4/28	5.50	5/23	4.70	7/06	.15	9/27	5.93	51.23
REES FLAT	1/04	6.95					3/28	12.80	4/27	3.00	5/30	2.30	6/29	.10	9/27	2.85	28.00
SHINGLE MILL	12/28	3.28	2/01	7.12			3/28	8.65	5/03	4.40	6/01	2.18	7/05	.03	9/27	4.06	29.72
WIDTSOE-ESCL 3	12/27	3.39	1/27	3.95	2/27	4.71	3/31	4.63	4/28	2.20	5/30	2.10	7/05	.05	10/02	2.30	23.33

C O A L C R E E K - V I R G I N - E S C A L A N T E R I V E R B A S I N S

KOLOB CRYSTAL															8/17		42.13
LITTLE GRASSY	1/03	2.82	1/26	6.95	2/23	7.40	4/01	14.30	4/25	4.30	5/30	2.00			10/12	4.00	31.05
LONG FLAT	1/03	3.35	1/26	3.45	2/23	2.80	4/01	6.00	4/28	3.20	5/24	2.35			10/03	2.65	23.80
TALL POLES	12/28	2.85	1/25	5.60	2/27	4.15	4/03	7.10	4/25	2.55	5/24	2.85			9/28	3.50	28.60
WEBSTER FLAT	1/03	4.20	1/26	7.80	2/23	9.40	4/01	11.40	4/25	3.40	5/24	2.00			*		
YANKEE RESVR	12/29	2.50	1/26	5.00	2/23	3.70	3/27	3.30	4/28	3.70	5/23	2.90			9/28	2.40	23.50

NOTE: BLANK SPACES INDICATE NO READING TAKEN, NEXT READING IS CUMULATIVE(EXCEPT AS NOTED *)
*: GAGE MOLESTED, DATA FOR THIS PERIOD LOST * *: Estimated



SNOW COURSES AND RELATED DATA MEASURING SITES

UTAH

1978

SCALE 1:1,500,000

ALBERS EQUAL AREA PROJECTION

USGS National Atlas 1:1,000,000 Albers Equal-Area projection (1967) used as source for base map and adapted for SCS use.

INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

NO	STATE	NAME	SEC	TWP	RGE	ELEV
		UPPER BEAR RIVER (above Harer, Idaho)				
10G11	W	Big Park	7	27N	117W	8,700
10J6P	U	Burts-Miller Ranch	19	3N	10E	7,900
10G7	W	CCC Camp x	9	29N	118W	7,500
10J36p	U	Gold Hill	11	1N	9E	10,000
10J7PST	U	Hayden Fork	25	1N	9E	9,400
10G12	W	Kelly Ranger Station	13	26N	118W	8,200
10G17S	W	LaBarge Guard Station x	7	30N	116W	9,000
10J35p	U	Lily Lake	34	2N	10E	9,300
11H12PST	U	Monte Cristo R.S.	4	8N	4E	8,960
10G10	W	Piney LaBarge x	19	29N	114W	8,820
10G6	W	Poison Meadows x	29	30N	116W	8,500
10G8P	W	Salt River Summit x	32	29N	118W	7,900
10G13MP	W	Snyder Basin x	15	29N	115W	8,400
10J17P	U	Stillwater Camp	32	2N	10E	8,550
		LOWER BEAR RIVER (below Harer, Idaho)				
11H37pST	U	Bug Lake	18	11N	5E	7,950
11H36p	U	Bunchgrass	5	13N	3E	8,400
11G11	I	Christensen Ranch	27	13S	41E	5,600
11H38p	U	Cinnamon Creek	5	8N	3E	7,300
12H1p	U	Clarkston Mountain	29	14N	2W	6,300
11G12	I	Cub River Ranger Station	5	15S	41E	5,400
11G14a	I	Dry Basin	30	13S	42E	7,900
12G4	I	Dry Creek Flat	31	13S	37E	6,350
11G6	I	Emigrant Summit	21	12S	42E	7,350
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6,500
11G8MPST	I	Franklin Basin	1	16S	41E	8,000
11H7MP	U	Garden City Summit	34 & 35	14N	4E	7,600
13H4PST	U	George Peak	4	13N	4W	9,000
11H40p	U	Herd Hollow	4	11N	3E	7,000
11G15a	I	Horseshoe Basin	31	13S	42E	8,000
11H1MP	U	Klondike Narrows	10	14N	3E	7,400
11G13	I	Liberty Springs	7	13S	42E	8,240
11H26	U	Little Bear (lower)	15	8N	1E	6,000
11H25PST	U	Little Bear (upper)	22	8N	1E	6,550
12G3	I	Oxford Mountain	32	13S	37E	6,800
11G5	I	Slug Creek Divide	15	10S	44E	7,725
11H27	U	Steep Hollow #1	7	14N	3E	8,500
11H28	U	Steep Hollow #2	9	14N	3E	7,700
11G9	I	Strawberry Creek	9	13S	41E	5,800
11G10	I	Strawberry Mink Divide	14	13S	41E	6,800
11H2PST	U	Tony Grove Lake	5	13N	3E	7,400
11H3MP	U	Tony Grove Ranger Station	11	13N	3E	6,250
11G4P	I	Willow Flat	2	15S	41E	6,100
		OGDEN RIVER				
11H14M	U	Beaver Creek-Skunk Creek	22	8N	3E	7,150
11H8PST	U	Ben Lomond Peak	3	7N	1W	8,000
11H9PST	U	Ben Lomond (lower)	1	7N	1W	6,000
11H35p	U	Causey Dam	34	7N	3E	5,500
11H29	U	Cutler Creek	3	7N	1W	6,780
11H13MPST	U	Dry Bread Pond	19	8N	4E	8,230
11H34p	U	Guilder's Peak	21	6N	4E	8,050
11H45p	U	Middle Fork Ogden	16	7N	2E	8,420
11H49	U	Powder Mountain Hideaway	6	7N	2E	8,250
11H48	U	Powder Mountain Sundown	1	7N	1E	8,400
11H15P	U	Sagebrush Flat	21	7N	3E	6,300
		WEBER RIVER				
11J24	U	Beaver Creek R.S.	28	2S	7E	7,500
11J1PST	U	Chalk Creek #1	4	1N	8E	9,100
11J2MPST	U	Chalk Creek #2	29	2N	8E	8,200
11J3MP	U	Chalk Creek #3	7	2N	8E	7,500
11J12P	U	Farmington Canyon (lower)	14	3N	1E	6,950
11J11PST	U	Farmington Canyon (upper)	26	3N	1E	8,000
11H44p	U	Francis Canyon	29	5N	6E	7,400
11J45a	U	East Shingle Lake	6	3N	10W	9,800
11J37p	U	Hardscrabble	16	2N	2E	6,500
11H21PST	U	Horse Ridge	1	6N	4E	8,260
11H31P	U	Kilfoil Creek	20	6N	5E	7,300
11H32P	U	Lost Creek	27	6N	5E	6,125
11J43	U	Park City Summit	20	2S	4E	9,300
11J15PST	U	Parley's Canyon Summit	5	1S	3E	7,500
11H50	U	Pine Canyon	6	5N	4E	8,000
11J38p	U	Porcupine	22	3N	7E	8,100
11J6	U	Redden Mine (lower)	1	2S	6E	8,500
11J5P	U	Redden Mine (upper)	1	2S	6E	9,000
11J39p	U	Sergeant Lakes	17	1N	5E	8,400
11J40p	U	Shingle Mill Flat	15	1S	7E	9,900
11J4PST	U	Smith & Morehouse	25	1N	7E	7,600
		PROVO RIVER & UTAH LAKE				
11J46PST	U	Beaver Creek Divide	25	2S	7E	8,000
11J20	U	Camp Altamont	29	4S	3E	7,300
11K21PST	U	Clear Creek Ridge #1	18	11S	6E	9,200
11K22PST	U	Clear Creek Ridge #2	9	11S	6E	8,000
11K23	U	Clear Creek Ridge #3	27	10S	6E	6,600
11J17P	U	Dutchman R.S.	27	3S	3E	7,560
11J22P	U	Hobble Creek Summit	27	7S	5E	7,420
11J36P	U	Lake Creek	36	4S	6E	9,100
11J31	U	Packard Canyon	21	7S	5E	6,400
11K1P	U	Payson R.S.	30	10S	3E	8,050
11K2	U	Rock Bridge	14	10S	2E	6,750
11J25P	U	Soapstone R.S.	9	3S	8E	7,800
11J19	U	South Fork R.S.	24	4S	2E	6,100
11J18P	U	Timpanogos Cave Camp	27	4S	2E	5,500
11J21PST	U	Timpanogos Divide	33	4S	3E	8,140
10J8PST	U	Trial Lake	5	2S	9E	9,800
		[illegible]RDAN RIVER & GREAT SALT LAKE				
12J2		[illegible]an's Cabin	24	4S	4W	6,450
12J5p		[illegible]seret Peak	15	4S	7W	9,250
11J41P	U	Lamb's Canyon #2	21	1S	3E	7,400
12J3P	U	Middle Canyon	8	4S	3W	7,000
11J44	U	Mill Creek	32	1S	3E	6,500
11J10	U	Mill D South Fork	18	2S	3E	9,400
12J1P	U	Rocky Basin-Settlement Canyon	30	4S	3W	8,900
11J16P	U	Silver Lake (Brighton)	35	2S	3E	8,725
11J42	U	Snow Bird (Gad Valley)	18	3S	3E	10,000
12K1PST	U	Vernon Creek	21	10S	5W	7,500
		UPPER SEVIER RIVER (South of Richfield, Utah)				
12L4PST	U	Box Creek	33	26S	2W	9,800
12M8	U	Bryce Canyon	36	36S	4W	8,000
12M13PST	U	Castle Valley	23	36S	8W	9,700
12M4P	U	Duck Creek R.S.	11	38S	8W	8,700
12M18	U	Farview	32	37S	4W	8,200
12M5PST	U	Harris Flat	24	38S	7W	7,700
11L9p	U	High-Top Mountain	36	25S	1E	11,400
12L6P	U	Kimberly Mine	11	27S	5W	9,300
12M2MPST	U	Midway Valley	26	37S	9W	9,800
12M7P	U	Panguitch Lake	4 & 5	36S	7W	8,200
12M19	U	Rainbow Point	29	38S	4W	9,100
12L5	U	Squaw Springs	3	27S	2W	9,300
11M4p	U	Widtsoe R.S.	22	34S	2W	7,600
		LOWER SEVIER RIVER (Including San Pitch River)				
11K13P	U	Beaver Dam	27	19S	3E	8,000
11L1PST	U	Farnsworth Lake	27 & 33	23S	2E	9,900
11K11P	U	G.B.R.C. Headquarters	21	17S	4E	8,700
11K10P	U	G.B.R.C. Meadows	26 & 27	17S	4E	10,000
11L2PST	U	Gooseberry R.S.	22	23S	2E	8,400
11K3MPST	U	Mammoth R.S.-Cottonwood Creek	13	13S	5E	8,800
11K34	U	Middle Fork	16	18S	4E	9,600
11K12P	U	Mt. Baldy R.S.	19	19S	4E	9,500
12K2P	U	Oak Creek	9	17S	3W	7,760
11K39PST	U	Pickle Keg Springs	4	21S	3E	9,600
12L1PS	U	Pine Creek	24	22S	4W	8,700
11K36	U	Rees's Flat	20	15S	2E	7,300
12L11P	U	Shingle Mill	5	22S	3W	6,200
11K35	U	Thistle Flat	23	18S	3E	8,500
		BEAVER RIVER				
12L13	U	Beaver Race Track	23	29S	7W	6,020
12L7PST	U	Big Flat	18	29S	4W	10,290
12L9PST	U	Merchant's Valley (upper)	8 & 9	29S	5W	8,200
12L8	U	Otter Lake	1	29S	5W	9,300
		PAROWAN CREEK				
12M16	U	Birch Crossing	23	35S	9W	8,100
12M14	U	Brian Head	10	36S	9W	10,000
12M12	U	Ed Ward Flat	17	35S	9W	8,300
12M15P	U	Tall Poles	26 & 35	35S	9W	8,800
12M11P	U	Yankee Reservoir	20	35S	8W	8,700
		ENTERPRISE TO NEW HARMONY DRAINAGES				
13M4MP	U	Little Grassy Creek	15	38S	17W	6,100
13M2MPST	U	Long Flat	2	38S	14W	8,000
		COAL CREEK				
12M20	U	Cedar City Golf Course	11	36S	11W	5,800
12M17	U	SUSC Ranch	18	37S	9W	8,200

COLORADO RIVER DRAINAGE

NO	STATE	NAME	SEC	TWP	RGE	ELEV
		UPPER GREEN RIVER IN UTAH (above Duchesne River)				
9J11aP	U	Ashley Twin Lakes	20	1S	19E	10,500
10J21P	U	Black's Fork G.S.-East Fork	25	2N	12E	9,300
10J22P	U	Black's Fork Junction	33	3N	12E	8,925
10J23a	U	Buck Pasture	14	1N	11E	9,700
9J14P	U	Burnt Creek	4	1N	20E	7,900
9J13P	U	Grizzly Ridge	8	1S	22E	8,500
10J24ap	U	Henry's Fork	29	2N	14E	10,000
10J4P	U	Hewinta G.S.	33	3N	13E	9,500
9J8P	U	Hickerson Park	24	2N	17E	9,100
9J15p	U	Highline Trail	23	1N	19E	10,250
10J1	U	Hole-in-the-Rock	13	2N	15E	9,150
10J3	U	Hole-in-the-Rock G.S.	32	3N	16E	8,300
9J2	U	King's Cabin (lower)	23 & 26	1S	21E	8,600
9J1PST	U	King's Cabin (upper)	22	1S	21E	8,730
10J37p	U	McCoy Park	6	1N	17E	10,680
10J2	U	Middle Beaver Creek	31	3N	16E	8,550
9J10aP	U	Reynolds Park	9	1S	18E	10,400
9J7P	U	Spirit Lake		1N	17E	10,300
10J20PST	U	Steel Creek Park		2N	13E	9,900
9J16PST	U	Trout Creek		1S	20E	9,200
9J12ap	U	Windy Park	1	1S	20E	9,400
		DUCHESNE RIVER				
10J41ap	U	Atwood Lake	13	4N	4W	10,500
10J30PST	U	Brown Duck Ridge	8	2N	6W	10,800
9J9ap	U	Chepeta-Whiterocks Lakes	3	1S	17E	10,300
11J32MPST	U	Currant Creek	31	1S	10W	7,800
11J23MPST	U	Daniels-Strawberry Summit	20	2S	12W	8,000
11J7P	U	East Portal	36	7S	6E	7,560
10J26ap	U	Five Point Lake	28	4N	5W	11,000
10K1PST	U	Indian Canyon	2	11S	10E	9,100
10J19P	U	Jackson Park	23	3N	4W	11,300
10J34p	U	Kidney Lake	28	5N	3W	11,000
10J39P	U	Lake Basin	23	3S	8W	10,800
10J25ap	U	Lakefork Basin	13	4N	7W	11,100
10J10PST	U	Lakefork Mountain	2 & 3	2N	5W	10,200
10J11	U	Lakefork Mountain #2	17	2N	4W	8,900
10J12	U	Lakefork Mountain #3	29	2N	4W	8,100
10J29ap	U	Lightning Lake	24	4N	8W	10,950
9J5PST	U	Mosby Mountain	27	2S	18E	9,500
9J3P	U	Paradise Park	7	3N	1E	10,100
10J18P	U	Rock Creek	21	2N	7W	7,900
10J32p	U	Shadow Lake	28	3N	8W	10,150
11J8PST	U	Strawberry Divide	34 & 35	7S	6E	8,000
11J35P	U	West Fork of the Duchesne	22	1N	19E	10,250
		PRICE RIVER				
10K5M	U	Corral	32	13S	14E	8,200
11K8	U	Dry Valley Divide	20	12S	8E	7,800
10K3M	U	Grassy Trail Creek-Left Fork	2	14S	13E	7,970
11K7	U	Jones Ranch	32	12S	7E	7,600
11K33MP	U	Mud Creek	4	14S	7E	8,300
10K6	U	Timberline	28	13S	13E	9,100
10K2MPST	U	White River #1	11	10S	8E	8,550
11K24	U	White River #2	9	10S	8E	7,600
11K25	U	White River #3	30	10S	8E	7,400
		SAN RAFAEL RIVER				
11K31PST	U	Buck Flat	23	19S	4E	9,400
11K4P	U	Gooseberry Reservoir	25	13S	5E	8,700
11K5	U	Huntington-Horseshoe	12	14S	5E	9,800
11K40P	U	Orange Olsen	31	17S	6E	7,300
11K28PST	U	Red Pine Ridge	5	16S	6E	9,400
11K38	U	Rush Pond	24	19S	4E	9,800
11K9PST	U	Seeley Creek	25	17S	4E	10,000
11K27P	U	Stuart R.S.	8 & 9	15S	7E	7,950
11K29	U	Upper Joe's Valley	21	16S	6E	8,900
11K32	U	Wrigley Creek	27	19S	5E	9,000
		MUDDY RIVER				
11K14	U	Black's Fork	34	20S	4E	9,200
11K15PST	U	Dill's Camp	27	20S	4E	9,200
		FREMONT RIVER				
11L4P	U	Black's Flat-U.M. Creek	33	24S	3E	9,250
11L5	U	Donkey Reservoir	9	30S	4E	9,800
11L3P	U	Fish Lake	35	26S	1E	8,700
11L6	U	Johnson Valley	24	25S	2E	8,850
		SOUTHEASTERN UTAH DRAINAGES				
9M1P	U	Buckboard Flat	36	33S	22E	9,000
9M2P	U	Camp Jackson	22	34S	22E	8,600
9L1	U	LaSal Mountain	5	27S	24E	8,800
9L2P	U	LaSal Mountain (upper)	3	27S	24E	9,400
9M3	U	Monticello Park	25	33S	23E	7,050
		ESCALANTE RIVER				
11M1	U	Widtsoe-Escalante Summit	22	34S	1W	9,500
11M2PST	U	Widtsoe-Escalante #2	22	34S	1W	9,500
11M3PST	U	Widtsoe-Escalante #3	22	34S	1W	9,500
		VIRGIN RIVER				
13M5PST	U	Kolob-Crystal	2	38S	11W	9,250
12M6	U	Long Valley Junction	22	38S	6W	7,500
12M3MPST	U	Webster Flat	20	37S	9W	9,200
		RAFT RIVER				
13H2a	U	Clear Creek Meadows	26	14N	14W	9,050
13H4P	U	George Peak	4	13N	4W	9,000
13H1	U	One Mile Summit	19	14N	14W	7,330
13H3a	U	ViPont	17	14N	17W	7,670

LEGEND
Numbering System (example)

10J7	Snow Course Only
10J7P	Snow Course and Precipitation Gage
10J7M	Snow Course and Soil Moisture Station
10J7A	Snow Course and Aerial Marker
10J7MA	Snow Course, Soil Moisture Station and Aerial Marker
10J7MP	Snow Course, Soil Moisture Station and Precipitation Gage
10J7a	Aerial Marker Only
10J7p	Storage Precipitation Gage Only
10J7PS	Snow Course, Precipitation Gage, Snow Pillow and Temperature
10J7PST	Snotel Data Site