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WATER SUPPLY OUTLOOK FOR UTAH

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

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

In cooperation with U.S. Forest Service, Bureau of Reclamation, Utah Fish and Game Dept., Utah State University, U.S. National Park Service, U.S. Geological Survey, and other Federal, State, and private organizations.

AS OF
APR. 1, 1973

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



COVER PHOTO NUMBER ORC-286-4

WATER SUPPLY OUTLOOK FOR UTAH

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

KENNETH E. GRANT

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.



Released by

A. W. HAMELSTROM

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
SALT LAKE CITY, UTAH

In Cooperation with

HUBERT C. LAMBERT

STATE ENGINEER
DIVISION OF WATER RIGHTS
UTAH STATE DEPT. OF NATURAL RESOURCES



Report prepared by

BOB L. WHALEY, Snow Survey Supervisor

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
FEDERAL BLDG., ROOM 4012
SALT LAKE CITY, UTAH 84111



PROSPECTIVE WATER SUPPLIES

Based on Snow Surveys Made on
UTAH and BEAR RIVER WATERSHEDS

April 1, 1973

Approximate Date



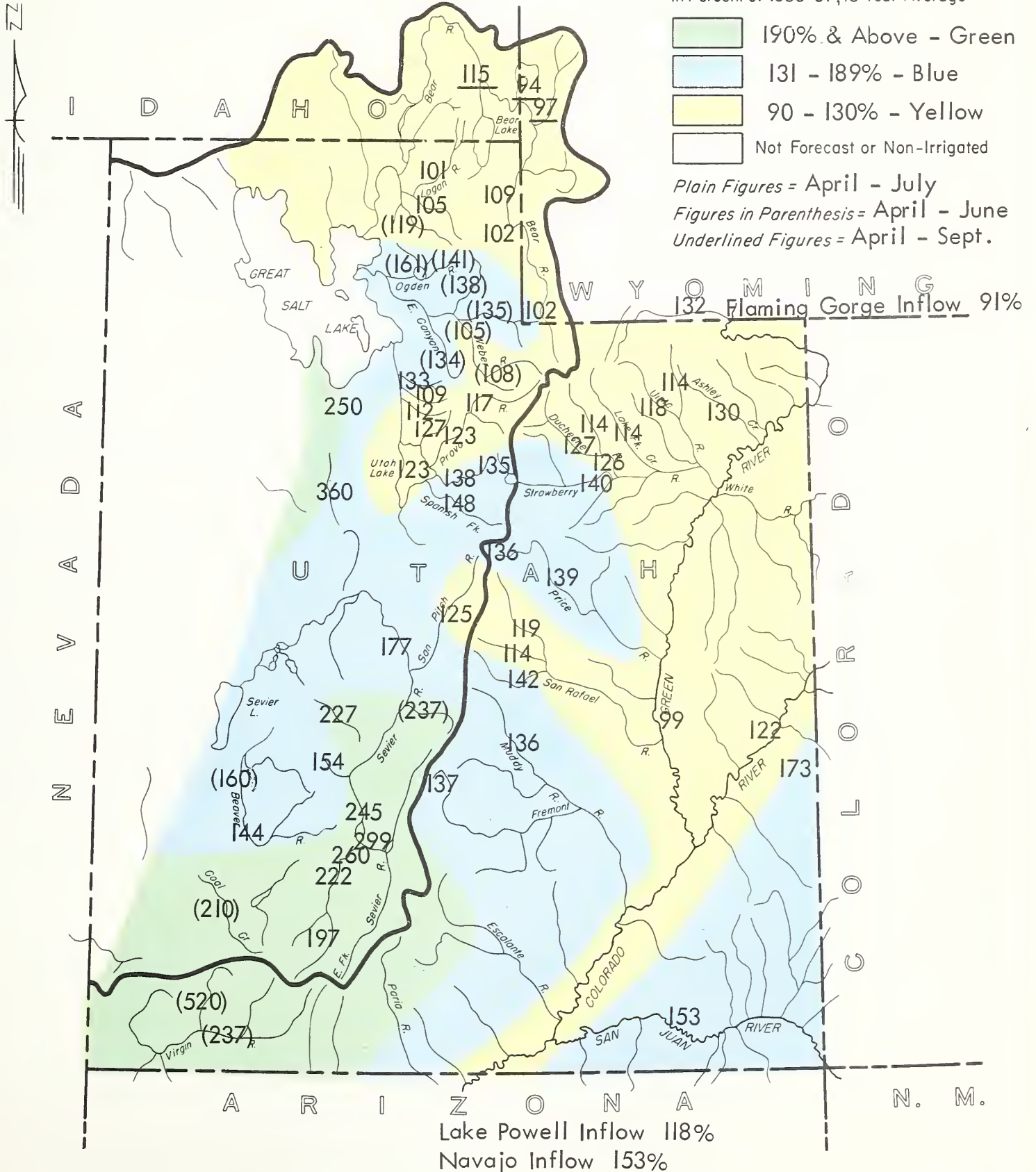
FORECAST STREAM FLOW
in Percent of 1953-67, 15 Year Average

- 190% & Above - Green
- 131 - 189% - Blue
- 90 - 130% - Yellow
- Not Forecast or Non-Irrigated

Plain Figures = April - July

Figures in Parenthesis = April - June

Underlined Figures = April - Sept.





WATER SUPPLY OUTLOOK

as of

APRIL 1, 1973

* * * * *
* Utah's 1973 Water Supply Outlook ranges from "near average" *
* in the northern part of the State to "excellent" in the south.*
* Snow cover varies from slightly below average to seven times *
* average. Reservoir storage is 129% of average and streamflow *
* forecasts range from near average to five times average. *
* * * * *

Snow Cover ranges from 83% of the April 1 average on the Logan River to seven times average on Shoal Creek above Enterprise, Utah. Snow cover remains at lower elevations in southern Utah that normally would have melted by at least mid March. Snow courses on the head waters of Shoal Creek and the Santa Clara River have set new all time water content record with about seven inches more water content than in 1969. Snow cover on the head of the Sevier, Virgin and Coal Creek is better than twice average although not quite as heavy as 1969 at higher elevations.

Snow cover on the Oquirrh Mountains and Ogden River drainage is better than double the April 1st average and a new record high at some locations.

Precipitation at mountain stations varied during March from as low as 20-40% of average in northern Utah to as high as 322% of average at Little Grass Creek in southern Utah.

Reservoir Storage in 15 of Utah's principal irrigation structures is 129% of average and 91% of last April 1. The elevation of the Great Salt Lake was 4200.30 feet above mean sea level; the highest since July 1953 and 8.95 feet higher than the all time low of October 1963 according to the U. S. Geological Survey.

Streamflow Forecasts range from near average in northern Utah to three to five times average in southern Utah. High volumes and mean daily peak flows are expected in southern Utah this year due to much heavier than average snow pack at low and medium elevations. Colder than average temperatures during March caused continued accumulation of snow with very little melt on areas above the valley floor.



RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

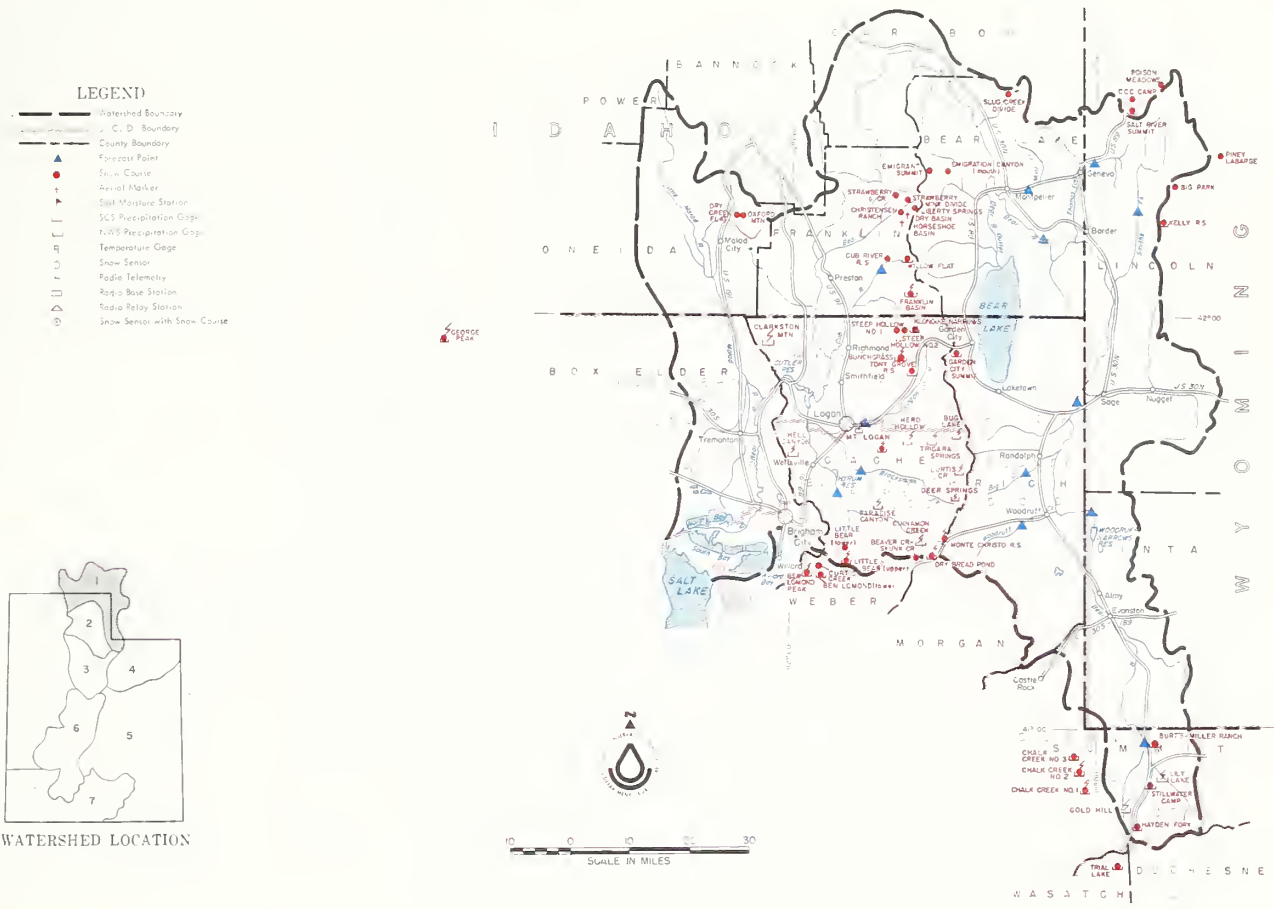
Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
	<u>GREAT BASIN</u>				
<u>Bear River</u>	Bear Lake	1421.0	1064.4	1127.2	895.2
	Woodruff Narrows	26.5	26.5	26.5	- -
<u>Beaver River</u>	Minersville(Rky Fd)	23.3	13.5	17.0	11.9
<u>Little Bear</u>	Hyrum	15.3	10.6	11.1	13.1
	Porcupine	11.3	4.1	6.2	- -
<u>Ogden</u>	Causey	7.1	2.8	1.0	- -
	Pineview	110.1	35.9	80.8	29.9
<u>Provo</u>	Deer Creek	149.7	111.2	113.8	90.1
<u>Sevier River</u>	Gunnison	18.2	18.1	18.1	- -
	Otter Creek	52.5	34.3	39.4	27.9
	Piute	71.8	56.2	66.4	38.8
	Sevier Bridge	236.0	142.7	185.7	95.8
<u>Spanish Fork</u>	Strawberry	270.0	184.9	205.6	123.1
<u>Utah Lake</u>	Utah Lake	883.9	827.3	841.4	600.3
<u>Weber</u>	East Canyon	48.1	39.6	40.7	13.7
	Echo	73.9	43.2	63.4	41.3
	Lost Creek	20.0	15.7	13.0	- -
	Rockport	60.9	25.3	25.9	24.2
	Willard Bay	193.3	167.6	173.0	- -
	<u>COLORADO RIVER DRAINAGE</u>				
<u>Ashley Creek</u>	Steinaker	33.3	29.5	25.6	- -
<u>Colorado</u>	Blue Mesa	829.5	308.9	- -	- -
	Lake Powell	25002.0	11966.0	13424.0	5156.0
<u>Green</u>	Flaming Gorge	3749.0	2894.0	2642.0	1231.0
<u>Lake Fork</u>	Moon Lake	35.8	19.8	19.2	17.1
<u>Price River</u>	Scotfield	65.8	24.6	44.5	23.1
<u>San Rafael</u>	Huntington North	3.9	3.9	3.8	- -
	Joe's Valley	54.6	37.0	41.0	- -
	Mill Site	16.7	5.3	6.0	- -
<u>San Juan</u>	Navajo	1696.4	972.8	837.7	- -
<u>Strawberry</u>	Starvation	165.3	123.5	120.0	- -
<u>Uintah</u>	Bottle Hollow	11.3	11.0	11.0	- -



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, 1973

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER increased at a normal rate on the Upper Bear (88% of average), and better than a normal rate on the Lower Bear (109% of average). Snow cover on the Malad River in Idaho is 148% of average - the highest drainage in the area.

PRECIPITATION at mountain stations varied from 40% of average at Willow Flat to 196% at Klondike Narrows.

SOIL MOISTURE is near to above average.

RESERVOIR STORAGE is generally above average but less than last April 1st.

STREAMFLOW FORECASTS range from 94% of average on Thomas Fork to 119% of average on Little Bear near Paradise. Logan River is expected to be near average this season. Mean daily peak flows are expected to be near average except on the Little Bear and Malad Rivers where higher than average snow cover presents a potential for higher than average peak flows.

APRIL 1, 1973

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
BEAR RIVER SYSTEM					
Bear at Harer, Idaho (1)	260	115	Apr-Sept		226
Bear nr Randolph	80	109	Apr-July		73
Bear nr Ut-Wyo, State Line	108	102	Apr-July		106
Bear nr Woodruff	106	102	Apr-July		104
Big Crk nr Randolph, Utah	5.5	115	Apr-July		4.8
Blacksmith Fork nr Hyrum	44	105	Apr-July		42
Little Bear nr Paradise	50	119	Apr-June		42
Logan nr Logan	100	101	Apr-July		99
Smith's Fork nr Border, Wyoming	105	97	Apr-Sept		108
Thomas Fork nr Ut-Wyo State Line	29	94	Apr-Sept		31
Woodruff Crk nr Woodruff, Utah	15.0	111	Apr-July		13.5

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Bear River</u>	Bear Lake	1421.0	1064.4	1127.2	895.2
	Woodruff Narrows	26.5	26.5	26.5	- -
<u>Little Bear</u>	Hyrum	15.3	10.6	11.1	13.1
	Porcupine	11.3	4.1	6.2	- -

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Big Creek near Randolph	50 - 90	43
Logan River near Logan	800 - 1100	911
Woodruff Creek near Woodruff	215 - 390	220
Little Bear near Paradise	550 - 800	439
<p>(1) - Observed flow corrected for change in storage and diversions (3) - Data obtained by radio - USU-SCS cooperative sites b - Average of all past records within the 15-year period, but less than 15 years. x - Adjacent drainage * - Partly estimated</p>		

BEAR RIVER BASIN

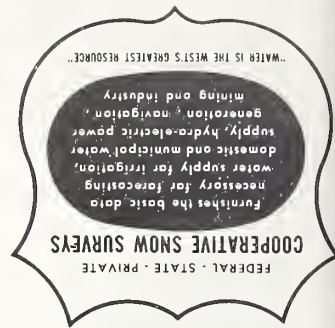
SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>UPPER BEAR RIVER</u> (Above Harer, Idaho)						
Big Park x	8700	3/27	58	16.4	27.5	20.0
Burts-Miller Ranch	7900	3/23	22	6.1	3.5	6.1
CCC Camp x	7500	3/29	39	11.2	14.7	11.4
Hayden Fork	9400	3/23	42	12.4	18.0	15.8*
Kelly Ranger Station	8200	3/27	56	15.8	25.9	17.9
LaBarge G.S.	9500	3/28	58	18.0	42.0	- -
Monte Cristo R.S.	8960	3/29	75	24.4	32.5	24.7
Piney-LaBarge #2 x	8820	3/28	73	24.4	31.0	- -
Poison Meadows x	8500	3/28	74	22.9	42.1	29.3
Salt River Summit	7900	3/29	49	13.9	22.1	15.2
Stillwater Camp	8550	3/23	36	8.6	10.9	11.1b
Trial Lake x	9800	3/29	79	23.1	31.0	25.0
<u>LOWER BEAR RIVER</u> (Below Harer, Idaho)						
Beaver Crk-Skunk Crk	7150	3/30	46	15.4	11.3	11.0
Christensen Ranch	5600	3/30	34	10.6	0.9	7.2*
Cub River R.S.	5400	3/29	28	9.0	0.0	6.4*
Dry Bread Pond x	8230	3/30	61	20.4	21.3	17.0
Dry Creek Flat	6350	3/29	36	13.9	0.0	3.7*
Emigration Canyon	6500	3/28	40	10.6	11.6	9.6
Emigrant Summit	7350	3/28	70	22.6	33.1	22.9
Franklin Basin	8000	3/26	66	21.2	35.4	26.8
Garden City Summit	7600	3/26	55	15.1	25.6	18.1
Klondike Narrows	7400	3/26	56	17.8	24.2	19.4b
Liberty Spring	8600	3/30	100	32.6	47.0	36.2
Little Bear (lower)	6000	3/27	51	16.6	5.8	7.8b
Little Bear (upper)	6550	3/27	62	20.2	10.0	10.6b
Monte Cristo R.S.	8960	3/29	75	24.4	32.5	24.7
Oxford Mountain	6800	3/29	38	12.2	6.5	7.7*
Slug Creek Divide	7225	3/31	51	16.5	21.8	15.4
Steep Hollow #1	8500	3/26	88	28.0	47.0	35.8b
Steep Hollow #2	7700	3/26	67	20.4	34.0	25.4b
Strawberry Creek	5800	3/30	42	13.9	7.3	10.1*
Strawberry Mink Divide	6800	3/30	67	24.2	24.7	20.1*
Tony Grove R.S.	6250	3/26	32	9.7	12.9	9.4
Willow Flat	6100	3/29	44	15.0	11.5	13.4*

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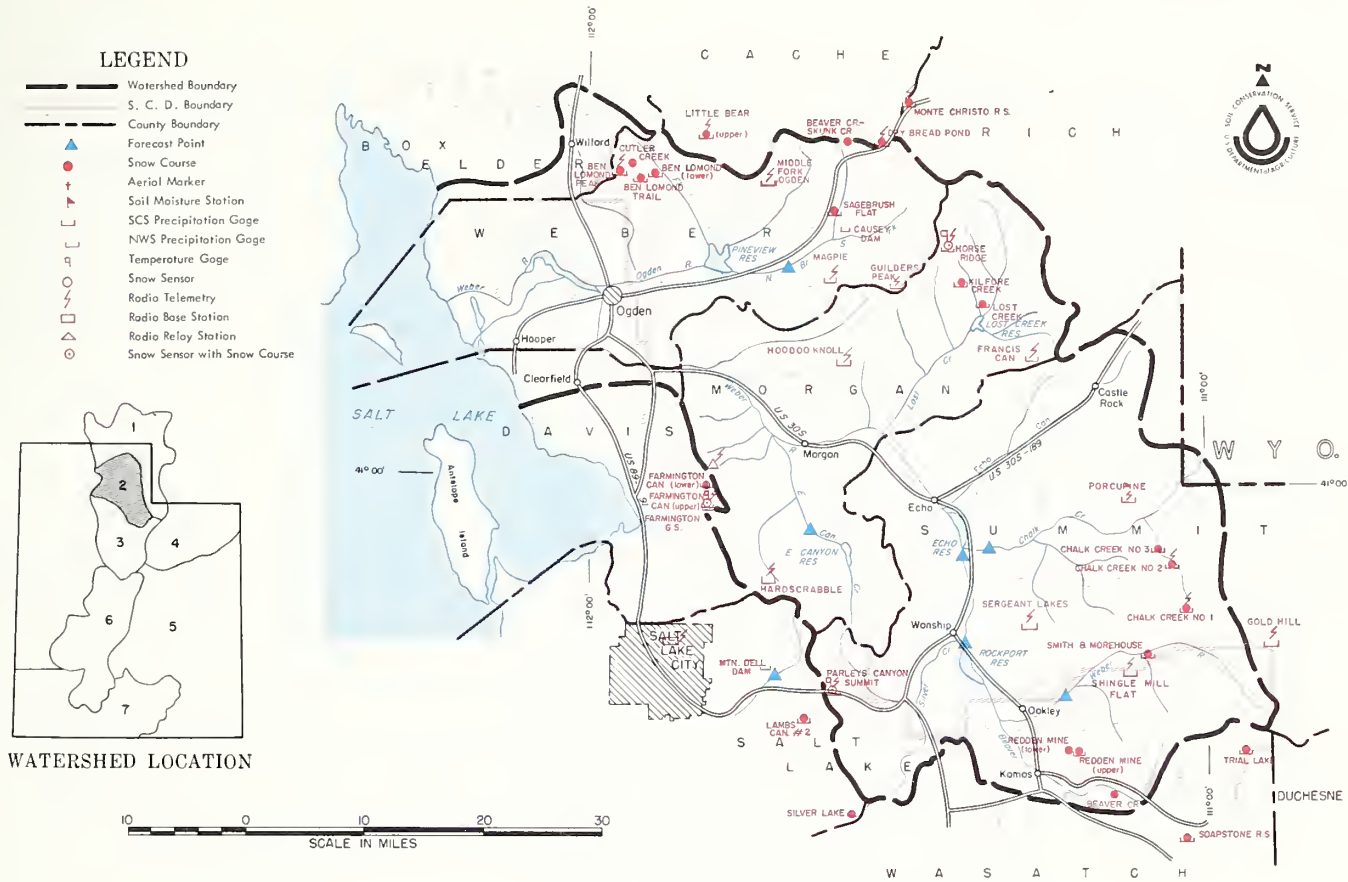
PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
BEAR RIVER							
Burts-Miller Ranch	7900	3/23	- -	- -	11.68	- -	- -
Bug Lake (3)	7950	3/28	3.51	- -	17.51	- -	- -
Cinnamon Crk. (3)	7300	3/28	2.40	- -	16.14	- -	- -
Clarkston (3)	6300	No Reading		- -	- -	- -	- -
Curtis Creek (3)	8450	3/28	3.79	- -	20.76	- -	- -
Deer Springs (3)	8450	3/28	4.23	- -	22.16	- -	- -
Dry Bread Pond	8230	3/30	4.88	3.68	23.19	19.90*	116
Franklin Basin (3)	8000	3/28	5.09	- -	24.09	- -	- -
Garden City Summit	7600	3/26	3.16b	3.16b	14.86	17.90*	83
George Peak (3)	8800	3/28	6.24	- -	22.63	- -	- -
Gold Hills (3)	10000	3/28	2.38	- -	21.05	- -	- -
Hayden Fork	9300	3/23	- -	- -	20.38	- -	- -
Herd Hollow (3)	7350	3/28	3.71	- -	16.48	- -	- -
Kelly R.S.	8200	No Reading		- -	- -	- -	- -
Klondike Narrows	7400	3/28	7.60	3.88b	34.95	23.27*	150
Lily Lake (3)	9300	3/28	0.71	- -	13.73	- -	- -
Little Bear (upper)	6850	3/28	7.08	3.10b	28.72	18.46*	156
Monte Cristo #2	8960	3/29	4.82	4.97b	22.68	24.65b	92
Sagebrush Flat x	6300	3/30	3.50	2.60b	16.62	13.36b	124
Salt River Summit	7900	3/29	3.60	2.71b	16.50	15.69*	105
Stillwater Camp	8550	3/23	- -	- -	13.41	12.58	106
Tony Grove R.S.	6250	3/28	3.70	2.65b	15.50	18.75b	83
Tony Grove Lake (3)	8400	3/28	5.25	- -	26.82	- -	- -
Trial Lake x	9800	3/29	4.15	3.82b	27.39	21.18*	130
Trigara Springs (3)	7200	3/28	4.03	- -	19.73	- -	- -
Willow Flat	6100	3/29	1.50	3.63*	18.01	21.15*	85

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**



APRIL 1, 1973

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 109% of average on the Weber to 162% on the Ogden. Low and medium elevation snow is particularly heavy on the Ogden River drainage.

PRECIPITATION at mountain locations varied from 76% of average at Smith and Morehouse to 278% of the average for March at Ben Lomond Trail.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is generally above average although less than last April 1 except in Lost Creek which is 20% above last April 1.

STREAMFLOW FORECASTS range from 102% of the April-June average for Rockport Reservoir Inflow to 161% of average for Pineview Reservoir Inflow. Mean daily peak flows on the south Fork of the Ogden are expected to be between 700 - 1000 c.f.s., Lost Creek is expected to be 200 - 350 c.f.s. and Chalk Creek 400 - 700 c.f.s. Other streams in the area are expected to peak near to slightly above average under normal runoff conditions.

April 1, 1973

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>WEBER-OGDEN RIVERS</u>					
Chalk Crk at Coalville	35	135	Apr-June		26
East Canyon Crk nr Morgan (1)	23	134	Apr-June		17.2
Hardscrabble Crk nr Porterville	17	126	Apr-June		13.5
Lost Crk nr Croydon, Utah	16.0	138	Apr-June		11.6
Pineview Reservoir Inflow (2)	145	161	Apr-June		90
South Fork Ogden nr Huntsville	65	141	Apr-June		46
Rockport Reservoir Inflow (1)	112	102	Apr-June		110
Weber nr Coalville (1)	105	105	Apr-June		100
Weber nr Oakley	100	108	Apr-June		93

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Lost Creek near Croydon	200 - 350	171
So. Fork Ogden nr Huntsville	700 - 1000	643
Chalk Creek nr Coalville	400 - 700	429

WSFB-X2-L

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Ogden</u>	Causey	7.1	2.8	1.0	- -
	Pineview	110.1	35.9	80.8	29.9
<u>Weber</u>	East Canyon	48.1	39.6	40.7	13.7
	Echo	73.9	43.2	63.4	41.3
	Lost Creek	20.0	15.7	13.0	- -
	Rockport	60.9	25.3	25.9	24.2
	Willard Bay	193.3	167.6	173.0	- -

(1) - Observed flow corrected for change in storage and diversions.
 (2) - Inflow record as computed by U.S. Bureau of Reclamation
 (3) - Data obtained by radio - USU-SCS Cooperative sites.
 b - Average of all past records within the 15-year period, but less than 15 years.
 x - Adjacent drainage
 ** - Snow pillow reading cooperatively by Park City Resort.
 * - Partly estimated

WEBER-OGDEN WATERSHEDS

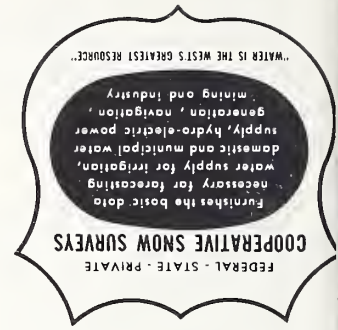
SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>OGDEN RIVER</u>						
Beaver Crk-Skunk Crk	7150	3/30	46	15.4	11.3	11.0
Ben Lomond (lower)	6000	3/28	83	27.7	15.5	13.5b
Ben Lomond Peak	8000	3/28	140	52.6	41.8	32.2
Ben Lomond Trail	6000	3/28	87	30.5	16.2	12.0b
Cutler Creek	6780	3/27	122	41.8	32.2	23.3b
Dry Bread Pond	8230	3/30	61	20.4	21.3	17.0
Monte Cristo R.S.	8960	3/29	75	24.4	32.5	24.7
Sagebrush Flat	6300	3/30	17	5.8	0.0	1.6
<u>WEBER RIVER</u>						
Beaver Creek R.S.	7500	3/29	27	8.9	1.7	7.7
Chalk Creek #1	9100	3/26	68	21.4	24.8	22.4
Chalk Creek #2	7900	3/26	46	14.4	16.1	14.4
Chalk Creek #3	7500	3/26	29	8.6	4.1	7.1*
Farmington Canyon (lower)	6950	3/28	85	28.8	22.9	21.2
Farmington Canyon (upper)	8000	3/28	100	34.1	38.2	26.3
Lamb's Canyon x #1	6600	3/29	53	15.6	15.4	13.7
Lamb's Canyon x #2	7400	3/29	55	16.9	14.5	- -
Lost Creek Reservoir	6125	4/2	22	6.8	0.0	- -
Park City Smt.	9300	4/3	108	37.8*	44.8	- -
Parley's Canyon Smt.	7500	3/29	62	19.2	17.9	17.2
Reddon Mine (lower)	8500	3/27	53	17.7	16.9	17.3
Reddon Mine (upper)	9000	3/27	58	20.4	18.6	19.0
Silver Lake x	8725	3/31	77	26.1	27.4	24.1
Smith & Morehouse	7600	3/28	40	11.1	11.2	11.9
Trial Lake x	9800	3/29	79	23.1	31.0	25.0
Horse Ridge	8260	4/2	67	20.6	32.0	20.3b
Kilfore Creek	7300	4/2	56	15.0	18.2	13.1b

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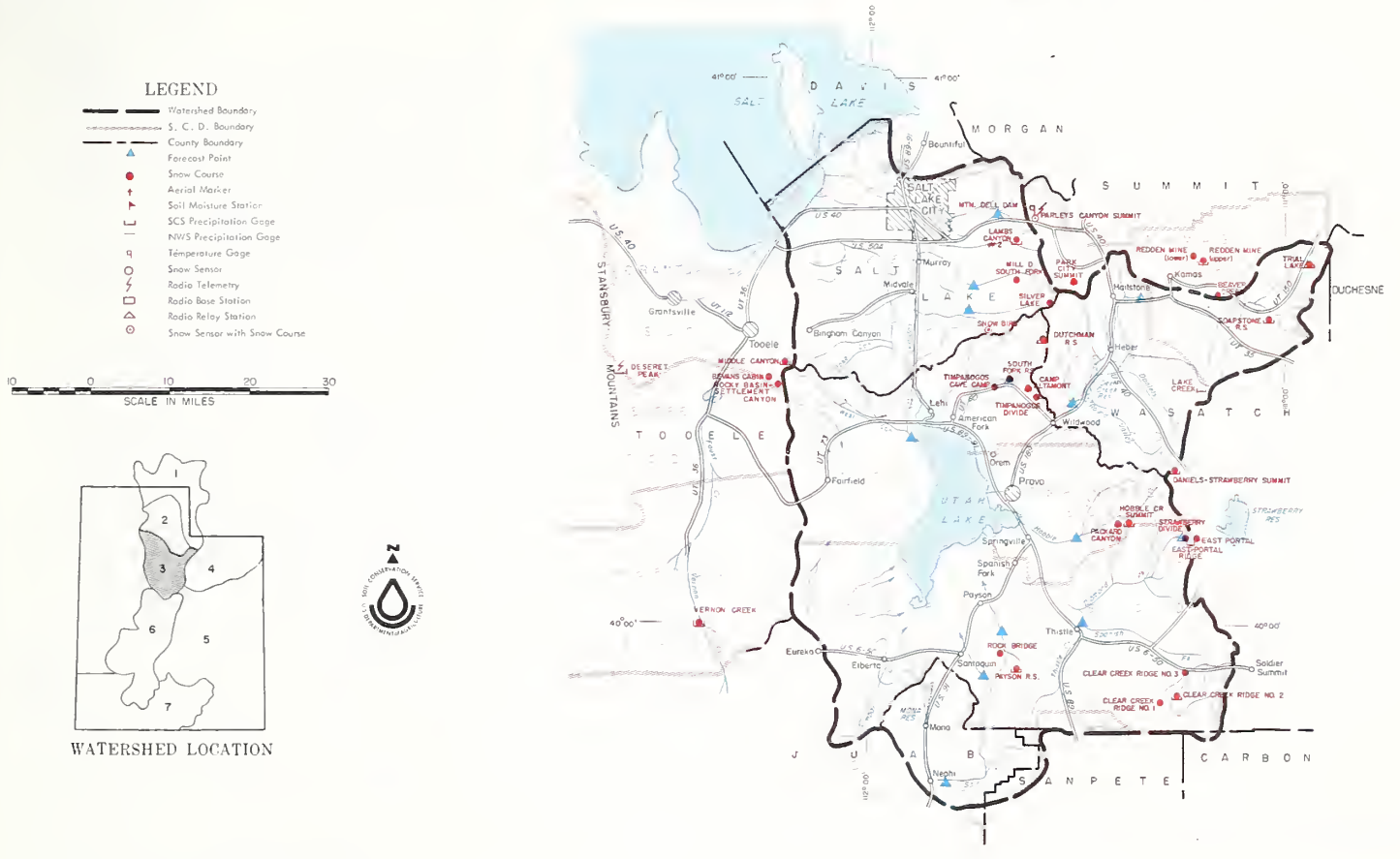
PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
OGDEN RIVER							
Ben Lomond Peak a	8000	3/28	5.27*	- -	49.28	- -	- -
Ben Lomond (lower)	6000	3/28	8.32	3.62b	32.94	23.47*	141
Ben Lomond Trail	6000	3/28	8.80	3.17b	37.05	24.65*	151
Causey Dam	5500	3/30	3.30	2.17b	15.37	15.63*	99
Dry Bread Pond	8230	3/30	4.88	3.68b	23.19	19.90*	116
Magpie Flat a	7600	3/28	4.15	- -	21.80	- -	- -
Middle Fork Ogden a	8420	3/28	6.49	- -	30.24	- -	- -
Monte Cristo #2 x	8960	3/29	4.82	4.97	22.68	24.65	92
Sagebrush Flat	6300	3/30	3.50	2.60b	16.62	13.36	124
WEBER RIVER							
Chalk Creek #1 a	9100	3/28	2.68	- -	24.60	- -	- -
Chalk Creek #2 a	7900	3/28	2.19	3.14b	21.60	14.96*	144
Chalk Creek #3	7500	3/26	1.94	2.54b	14.61	12.73b	115
Farmington Guard Sta.	7500	3/28	- -	5.03	33.01	26.76	123
Farmington Rice	7000	3/28	- -	4.65	34.32	24.38	140
Francis Canyon a	7360	3/28	2.94	- -	16.24	- -	- -
Guilders Peak a	8000	3/28	3.48	- -	21.07	- -	- -
Hardscrabble a	6500	3/28	4.45	- -	28.08	- -	- -
Hoodoo Knoll a	8350	3/28	3.37	- -	23.93	- -	- -
Horse Ridge	8260	Not measured		- -	- -	- -	- -
Lost Creek	6125	4/2	2.80	- -	13.84	- -	- -
Mtn. Dell Dam	5500	4/2	0.48	2.32	9.87	11.84	83
Parley's Canyon Smt.	7500	3/29	4.55	3.75*	23.81	19.33	123
Porcupine	8100	3/28	2.44	0 0	18.02	- -	- -
Redden Mine (upper)	9000	Gage Molested		- -	- -	- -	- -
Sargent Lake a	8400	3/28	4.12	- -	22.69	- -	- -
Silver Lake (Brighton) x	8725	3/31	5.30	5.04	30.60	24.15	127
Smith & Morehouse	7600	3/28	2.65	3.47b	19.02	16.45*	116
Trial Lake x	9800	3/29	4.15	3.82b	27.39	21.18	130

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



APRIL 1, 1973

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER on Utah Lake drainages averages 128% of the 1953-67 April 1 average and 148% of last April 1. Jordan River snow cover above Salt Lake is 111% of average and 101% of last year. Oquirrh Mountains and Vernon Creek areas are 219% of average and 267% of last year.

PRECIPITATION varied from 20% of the March average at Mtn. Dell Dam to 165% at Parleys Summit 2,000 feet higher. Utah Lake watershed ranged from 70% of average at Daniels-Strawberry Summit to 130% at Timpanogos Divide.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is above average. Utah Lake is 0.6 foot below Compromise Level.

STREAMFLOW FORECASTS vary from 109% of average for Big Cottonwood Creek to better than 3 times average on Vernon Creek.

April 1, 1973

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>PROVO RIVER & UTAH LAKE</u>					
American Fork nr American Fork	33	127	Apr-July		26
Hobble Creek nr Springville	18	138	Apr-July		13.0
Provo nr Hailstone (1)	101	117	Apr-July		87
Provo below Deer Crk Dam (1)	118	123	Apr-July		96
Spanish Fork at Thistle	40	148	Apr-July	12.6	27
Strawberry Reservoir Inflow (1)	55	135	Apr-July	38	41
Utah Lake Inflow	240	123	Apr-July	204	195
<u>JORDAN RIVER & SALT LAKE</u>					
Big Cottonwood nr SLC	37	109	Apr-July	40	34
Farmington Crk nr Farmington	8.8	129	Apr-July		6.8
Little Cottonwood Crk nr SLC	37	112	Apr-July	35	33
Parley's Crk nr SLC	12.5	133	Apr-July	19	9.4
<u>TOOELE VALLEY</u>					
Settlement Canyon	5.5	250	Apr-July		2.2*
Vernon Creek near Vernon	1.8	360	Apr-July		0.5b

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Big Cottonwood Crk near SLC	350 - 500	310
Hobble Creek near Springville	175 - 400	180
Spanish Fork near Thistle	400 - 700	307
Vernon Creek	20 - 25	6

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Spanish Fork</u>	Strawberry	270.0	184.9	205.6	123.1
<u>Utah Lake</u>	Utah Lake	883.9	827.3	841.4	600.3
<u>Provo</u>	Deer Creek	149.7	111.2	113.8	90.1

(1) - Observed flow corrected for change in storage and diversions.
 x - Adjacent drainage.
 b - Average of all past records within the 15-year period, but less than 15 years.
 * - Partly estimated.

UTAH LAKE, JORDAN RIVER & TOOELE WATERSHEDS

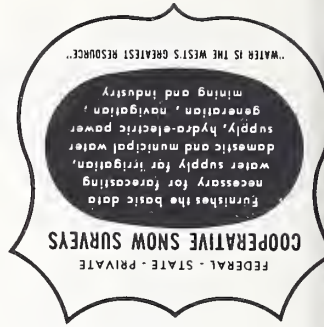
SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>UTAH LAKE</u>						
Beaver Creek R.S. x	7500	3/29	27	8.1	1.7	7.7
Camp Altamont	7300	3/30	55	19.3	3.5	13.3
Clear Creek Ridge #1	9200	3/28	61	21.0	16.7	17.3b
Clear Creek Ridge #2	8000	3/28	50	15.7	11.1	12.6b
Clear Creek Ridge #3	6600	3/28	24	8.8	0.0	5.2b
Daniels Strawberry Smt.	8000	3/27	48	16.3	9.8	14.0
Dutchman R. S.	7560	3/30	59	21.4	12.5	14.8
East Portal	7560	3/28	40	12.6	6.2	10.6
Hobble Creek Summit	7420	3/29	45	16.8	5.7	12.0
Packard Canyon	6400	3/29	36	12.9	0.0	8.4b
Payson R.S.	8050	3/27	68	25.8	9.9	16.6
Rock Bridge	6750	3/27	44	17.8	4.8	11.0
Soapstone	7800	3/29	37	9.6	11.5	11.9
South Fork R.S.	6100	3/30	30	11.4	0.0	2.8
Strawberry Divide	8000	3/28	58	19.6	17.9	18.4
Timpanogos Cave Camp	5500	3/30	0	0.0	0.0	1.0
Timpanogos Divide	8140	3/30	81	28.2	19.4	22.6
Trial Lake	9800	3/29	79	23.1	31.00	25.0
<u>JORDAN RIVER & TOOELE VALLEY</u>						
Bevan's Cabin	6450	4/2	82	27.4	5.5	9.6b
Lamb's Canyon #1	6600	3/29	53	15.6	15.4	13.7
Lamb's Canyon #2	7400	3/29	55	16.9	14.5	- -
Middle Canyon - Tooele	7000	4/2	77	24.7	7.9	12.2b
Mill D South Fork	7400	3/30	56	20.8	20.3	18.8
Parley's Canyon Summit	7500	3/29	62	19.2	17.9	17.2
Rocky Basin-Settlement C	8900	3/30	128	47.4	23.8	23.6b
Silver Lake	8725	3/31	77	26.1	27.4	24.1
Vernon Creek	7500	4/2	67	20.0	0.5	- -
Snowbird - Gad Valley	10000	4/3	108	37.8*	24.1*	- -

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PRECIPITATION (Inches)

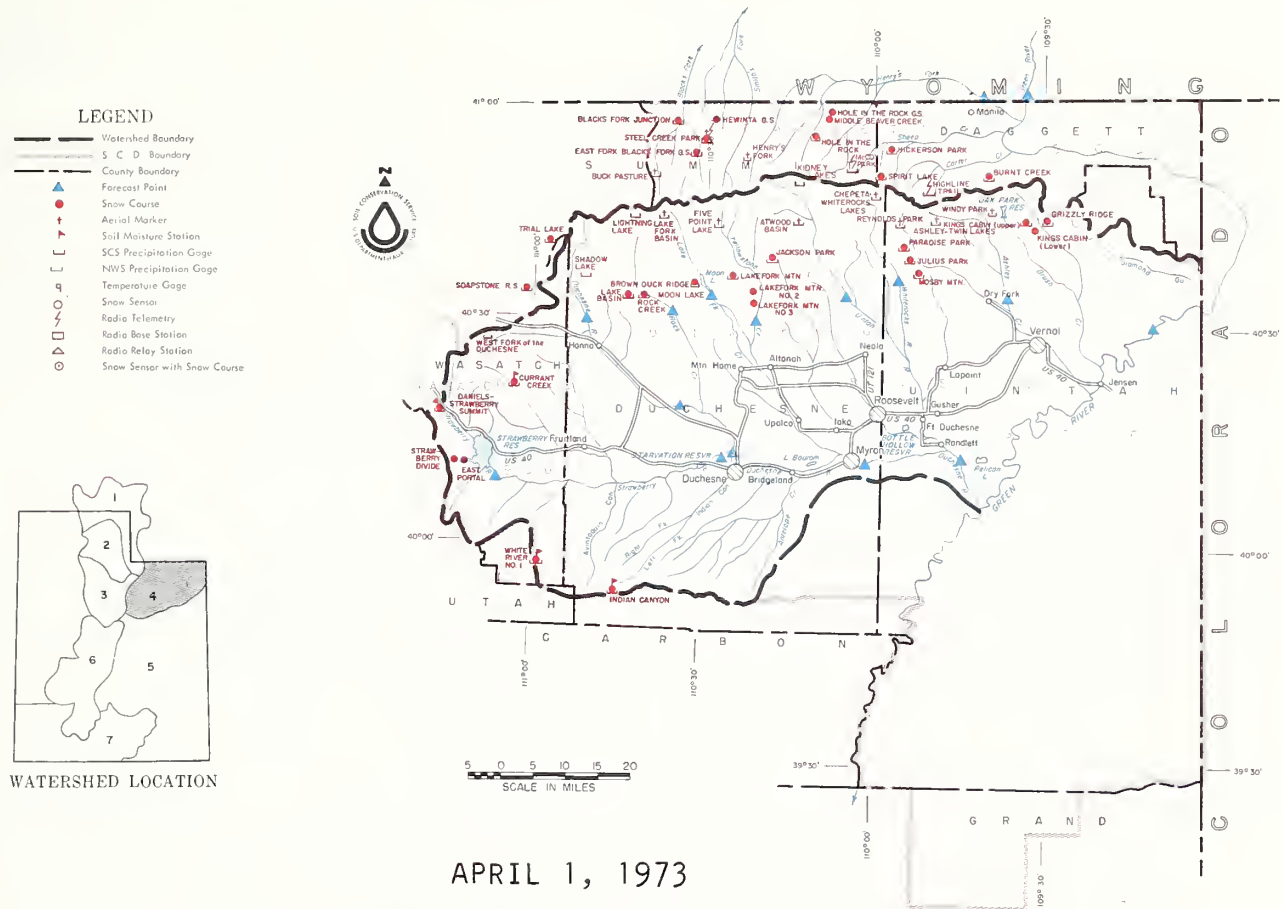
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>UTAH LAKE</u>							
Clear Creek Ridge #2	8000	3/28	2.61	2.73b	18.74	- -	- -
Daniels-Strawberry Smt.	8000	3/27	2.29	3.26b	22.65	17.11b	132
Dutchman R.S.	7500	3/30	4.10	3.32b	26.98	19.26b	140
East Portal Ridge	7800	3/28	2.46	3.12	19.08	16.90*	113
Hobble Creek Smt.	7300	3/29	4.05	- -	24.98	- -	- -
Payson R.S.	8050	3/27	3.15	3.12b	25.35	16.97	149
Soapstone R.S.	7800	3/29	2.03	2.54b	17.74	14.67*	121
Timpanogos Divide	8200	3/30	5.05	3.89	34.25	23.78	144
Trial Lake	9800	3/29	4.15	3.82b	27.39	21.18	130
<u>JORDAN RIVER & TOOELE VALLEY</u>							
Lamb's Canyon #2	7400	3/29	3.97*	- -	6.61**	- -	- -
Middle Canyon	7000	No Measurement		3.56b	- -	16.43	- -
Mt. Dell Dam	5500	4/2	6.48	2.32	9.87	11.84	83
Parleys Canyon Smt.	7500	3/29	4.55	3.75*	23.81	19.33	123
Silver Lake (Brighton)	8725	3/31	5.30	5.04	30.60	24.15	127
Rocky Basin-Settlement Cy	8900	3/30	6.72	- -	38.21	- -	- -
Vernon Creek	7500	4/2	5.04	- -	25.13	- -	- -

** Gage Molested - Lost two months catch.

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



THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER is 116% of average and 123% of last year on the south side of the Uintahs. The north side is 105% of average and 97% of last year. Snow is heavier on the east end of the Uintahs as shown by 100 inches of depth on the Ashley Twin Lakes aerial marker. Windy Park marker had 75 inches of depth when flown cooperatively with Utah Wildlife Resources on April 4.

PRECIPITATION ranged from 54% of average on the north side of the Uintahs to 279% on the south side at Moon Lake.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is above average and better than last year.

STREAMFLOW FORECASTS for the April-July period range from 91% of average for Flaming Gorge Inflow to 134% for the Duchesne at Randlett. Mean daily peak flow is expected to be 700 - 1000 c.f.s. on Strawberry River and 900 - 1200 c.f.s. on Ashley Creek.

April 1, 1973

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>DUCHESNE RIVER</u>					
Duchesne nr Tabiona (1)	120	127	Apr-July		94
Duchesne at Duchesne (1)	210	126	Apr-July		167
Duchesne at Myton (1)	300	123	Apr-July		243
Duchesne at Randlett (1)	350	134	Apr-July		262
Strawberry at Duchesne	69	140	Apr-July		49
Rock Crk nr Mtn. Home	100	114	Apr-July		88
Lakefork below Moon Lake (1)	75	114	Apr-July		66
Yellowstone nr Altonah	67	114	Apr-July		59
Uinta nr Neola	93	118	Apr-July		79
Whiterocks nr Whiterock	58	114	Apr-July		51
<u>FLAMING GORGE TO DUCHESNE RIVER</u>					
Ashley Creek nr Vernal	57	130	Apr-July		44
Henry's Fork at Linwood	50	132	Apr-Sept		38
Flaming Gorge Inflow (1)	955	91	Apr-July	1967	1054

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Strawberry River at Duchesne	700 - 1000	558
Ashley Creek	900 - 1200	920

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Ashley Creek</u>	Steinaker	33.3	29.5	25.6	- -
<u>Green River</u>	Flaming Gorge	3749.0	2894.0	2642.0	1231.0
<u>Lake Fork</u>	Moon Lake	35.8	19.8	19.2	17.1
<u>Strawberry</u>	Starvation	165.3	123.5	120.0	- -
<u>Uintah</u>	Bottle Hollow	11.3	11.0	11.0	- -
(1) - Observed flow corrected for change in storage and diversions b - Average for all past record within 15-year period, but less than 15 years x - Adjacent drainage * - Partly estimated					

UINTAH BASIN & DAGGETT SCD'S

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>UINTAH BASIN SCD</u>						
Currant Creek	7800	3/29	40	10.2	3.6	8.0b
Daniels-Strawberry Smt. x	8000	3/27	48	16.3	9.8	14.0
East Portal x	7560	3/28	40	12.6	6.2	10.6
Indian Canyon	9100	3/22	66	15.2	13.1	11.5
Jackson Park	11300	Not Measured			14.0	12.1b
Julius Park	9800	3/20	53	13.3	14.2	12.0b
King's Cabin (lower)	8600	3/22	51	12.2	7.6	8.1
King's Cabin (upper)	8730	3/22	57	13.7	11.1	9.6
Lakefork Mountain	10200	3/27	53	12.7	10.7	11.1
Lakefork Mountain #2	8900	3/27	38	9.1	4.3	7.2
Lakefork Mountain #3	8100	3/27	33	7.6	0.0	5.6
Mosby Mountain	9500	3/20	42	9.8	10.4	9.7
Paradise Park	10100	3/20	50	13.4	14.8	11.4
Rock Creek	7900	3/26	32	8.0	2.8	5.9b
Soapstone R.S. x	7800	3/29	37	9.6	11.5	11.9
Strawberry Divide	8000	3/28	58	19.6	17.9	18.4
Trial Lake	9800	3/29	79	23.1	31.0	25.0
White River #1	8550	3/26	49	14.3	12.0	12.0*
Grizzly Ridge	8500	3/26	48	13.3	8.5	- -
<u>DAGGETT SCD</u>						
Black's Fork Jct.	8925	3/22	35	7.5	11.0	9.3b
East Fk. Black's Fk. G.S.	9300	3/22	34	7.2	12.2	9.4b
Hewinta Guard Station	9500	3/22	35	8.3	10.7	9.8*
Hickerson Park	9100	3/21	33	7.8	3.4	6.0*
Hole-in-the-Rock	9150	3/23	34	7.2	5.8	5.9
Hole-in-the-Rock G.S.	8300	3/23	20	4.6	0.0	1.6b
Middle Beaver Creek	8550	3/23	26	6.1	3.8	5.3b
Spirit Lake	10300	3/21	63	16.6	13.6	12.0b
Steel Creek Park	9900	3/22	54	12.8	19.1	15.3b
Burnt Creek	7900	3/26	26	6.3	0.7	- -
<u>UINTAH BASIN - Aerial Markers</u>						
Ashley Twin Lakes A	10500	4/4	100	25.0	17.5	- -
Atwood Basin A	10250	4/4	60	14.4	12.4	- -
Buck Pasture A	9700	4/4	58	13.3	20.4	- -
Chepeta-Whiterocks Lakes A	10300	4/4	71	19.2	15.5	- -
Five Point Lake A	11000	4/4	72	17.3	17.4	- -
Henry's Fork A	10000	4/4	63	15.1	14.0	- -
Lakefork Basin A	11100	4/4	72	17.3	20.9	- -
Reynolds Park A	10400	4/4	82	22.1	20.5	- -
Windy Park A	9400	4/4	75	18.0	11.9	- -

"The Conservation of Water begins with the Snow Survey"

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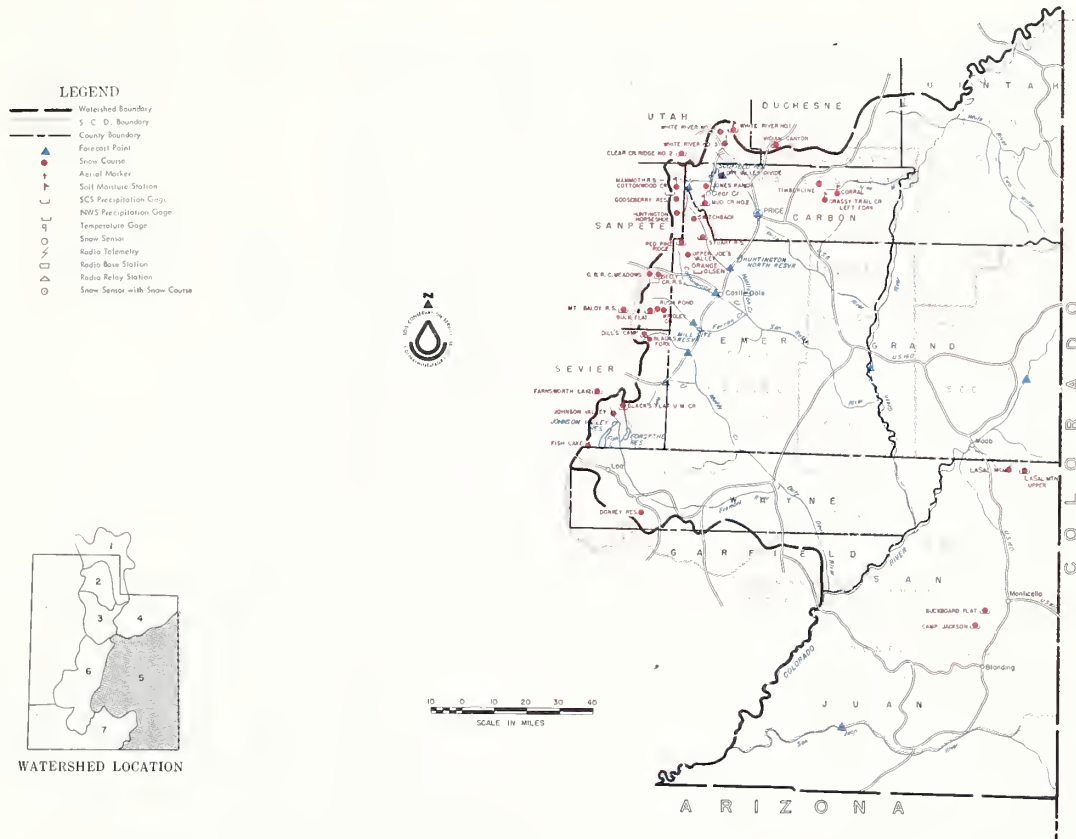
PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>UINTAH BASIN SCD</u>							
Currant Creek	7800	3/29	- -	- -	17.18	12.35b	139
Daniels-Strawberry Smt.x	8000	3/27	2.29	3.26b	22.65	17.11b	133
East Portal Ridge x	7800	3/28	2.46	3.12	19.08	16.90*	113
Grizzly Ridge	8500	3/26	3.79	- -	18.89	- -	- -
Indian Canyon	9100	3/22	4.00	2.32b	20.05	13.06b	154
Jackson Park	10650	Not Measured		- -	- -	- -	- -
Julius Park	9800	3/20	2.13	1.86b	17.64	11.24*	157
King's Cabin (upper)	8730	3/22	3.60	2.07b	17.02	10.04*	170
Lakefork Mountain	10500	3/27	3.76	1.91b	18.17	11.06b	165
Moon Lake	8150	4/2	3.15	1.13	13.65	7.54	181
Mosby Mountain	9500	3/20	2.52	- -	16.07	- -	- -
Paradise Park	10100	3/20	2.21	2.24b	18.51	12.54b	148
Rock Creek	7900	3/26	- -	- -	16.48	10.42b	158
Soapstone R.S. x	7800	3/29	2.03	2.54b	17.74	14.67*	121
Trial Lake x	9800	3/29	4.15	3.82b	27.39	21.18b	130
White River #1 x	8600	3/26	2.71	2.52b	15.12	12.98*	116
<u>DAGGETT SCD</u>							
Black's Fork Jct.	8925	3/22	1.25	2.33b	10.73	10.33b	104
Burnt Creek	7900	3/26	1.88	- -	13.18	- -	- -
E. Fk. Black's Fk. G.S.	9300	3/22	1.52	2.40b	11.70	11.06b	105
Hewinta Guard Station	9500	3/22	1.46	2.59b	12.09	11.77b	103
Hickerson Park	9100	Not Measured		- -	- -	- -	- -
Spirit Lake	10300	3/21	3.26	2.65	18.76	13.98*	134

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



APRIL 1, 1973

THE WATER SUPPLY OUTLOOK NEAR AVERAGE TO ABOVE AVERAGE

SNOW COVER ranges from 185% on the Blue Mountains to 119% on the San Rafael. Price River is 123%, the Muddy is 140% and the LaSal Mountains are 146% of the April 1 snow water content average.

PRECIPITATION for March varied from 82% of average on Cottonwood Creek to 200% on the Blue Mountains above Monticello.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is near average but less than last year except in Huntington and Navajo.

STREAMFLOW FORECASTS range from 97% of average for Green River to 153% for the San Juan and 173% for Mill Creek near Moab. Ferron Creek is now expected to flow 142% of the April-July average. The north tributary of Ferron is expected to produce heavier than earlier reports indicated.

April 1, 1973

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>PRICE RIVER</u>					
Gooseberry Crk nr Scofield	13.2	132	Apr-July		10.0
Price near Heiner (1)	75	139	Apr-July		54
Scofield Reservoir Inflow (1)	43	136	Apr-July	19.0	32
<u>SAN RAFAEL RIVER</u>					
Cottonwood Crk nr Orangeville	50	114	Apr-July	33	44
Ferron Crk nr Ferron	47	142	Apr-July		33
Huntington Crk nr Huntington	50	119	Apr-July		42
<u>MUDDY RIVER</u>					
Muddy Creek nr Emery	22	136	Apr-July		16.2b
<u>FREMONT RIVER</u>					
Seven Mile Crk nr Fish Lake	8.5	137	Apr-July		6.2b
<u>UPPER COLORADO BASIN</u>					
Colorado nr Cisco, Utah	3417	122	Apr-July	1594	2802
Green at Green River, Utah	2484	97	Apr-July	2030	2574
Navajo Reservoir Inflow	950	153	Apr-July	259	619
San Juan nr Bluff, Utah	1362	153	Apr-July	276	890
Mill Creek nr Moab	8.5	173	Apr-July	- -	4.9b

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Ferron Creek near Ferron	400 - 600	414
Muddy Creek near Emery	125 - 250	142

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Price River</u>	Scofield	65.8	24.6	44.5	23.1
<u>San Rafael</u>	Huntington North	3.9	3.9	3.8	- -
	Joe's Valley	54.6	37.0	41.0	- -
	Mill Site	16.7	5.3	6.0	- -
San Juan	Navajo	1696.4	972.8	837.7	- -

(1) - Observed flow corrected for change in storage and diversions
 b - Average for all past record within 15-yr period, but less than 15 years.
 x - Adjacent drainage
 * - Partly estimated

CARBON, EMERY, WAYNE, GRAND & SAN JUAN

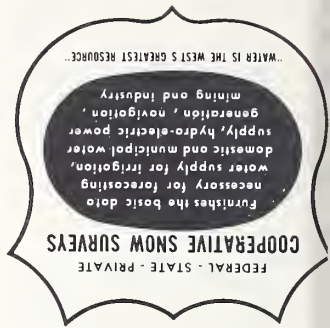
SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>PRICE RIVER</u>						
Corral	8200	3/28	43	12.9	0.0	7.2b
Dry Valley Divide	7800	3/27	40	13.0	0.0	9.4
Gooseberry Reservoir	8700	3/28	64	22.6	13.2	18.1
Grassy Trail Crk-Left Fk.	7970	3/29	52	14.2	0.9	19.0
Huntington-Horseshoe	9800	3/28	74	26.2	16.5	23.4
Indian Canyon x	9100	3/22	66	15.2	13.1	11.5
Jones Ranch	7600	3/27	30	8.4	0.0	4.9b
Mammoth R.S.-Ctnwd. Crk.	8800	3/28	62	22.5	13.2	19.0
Mud Creek #2	8300	3/27	50	15.0	9.4	12.3
Timberline	9100	3/29	70	19.4	12.6	13.6b
White River #1	8550	3/26	49	14.3	12.0	12.0
White River #2	7600	3/26	29	8.6	0.0	7.3b
White River #3	7400	3/26	28	9.3	0.0	6.6b
<u>SAN RAFAEL RIVER</u>						
Buck Flat	9400	3/26	60	16.9	12.5	15.9b
Gooseberry Reservoir x	8700	3/28	64	22.6	13.2	18.1
Huntington-Horseshoe	9800	3/28	74	26.2	16.5	23.4
Mammoth R.S.-Ctnwd. Crk. x	8800	3/28	62	22.5	13.2	19.0
Red Pine Ridge	9400	3/28	53	16.1	12.1	16.9b
Rush Pond	9800	3/26	55	15.8	10.1	13.8b
Seely Creek R.S.	10000	3/30	72	24.4	9.2	15.0
Stuart R.S.	7950	3/28	38	10.0	0.0	7.3b
Upper Joe's Valley	8900	3/28	38	10.2	4.6	9.5b
Wrigley Creek	9000	3/26	48	13.3	7.2	10.6b
Orange Olsen R.S.	7300	3/28	18	5.1	0.0	- -
<u>MUDDY & FREMONT RIVERS</u>						
Black's Flat-U.M. Creek	9250	3/26	45	13.2	8.2	9.3b
Black's Fork	9200	3/27	53	15.7	8.5	12.9
Dill's Camp	9200	3/27	50	14.4	7.5	11.3*
Donkey Reservoir	9800	4/5	61	14.2	5.9	6.8b
Farnsworth Lake x	9900	4/3	86	26.5	16.6	17.4
Fish Lake	8700	3/26	40	11.4	0.0	5.7
Johnson Valley	8850	3/26	38	10.0	0.0	6.0b
Mt. Baldy R.S. x	9500	3/27	75	26.6	18.0	21.8
<u>SOUTHEASTERN UTAH DRAINAGES</u>						
Buckboard Flat	9000	3/21	68	20.7	7.0	11.4
Camp Jackson	8600	3/21	62	19.8	0.3	10.5b
LaSal Mountain	8800	3/22	46	13.8	0.0	8.7
LaSal Mountain (upper)	9400	3/22	68	20.8	10.3	15.5b

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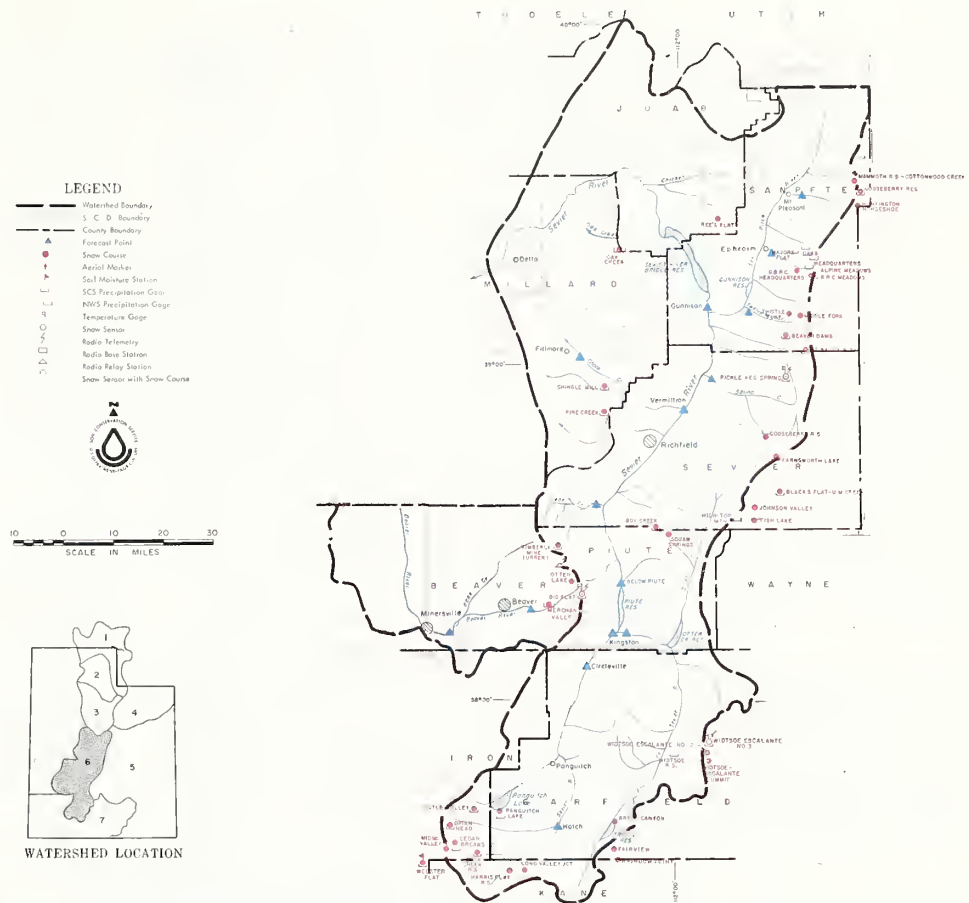
PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>PRICE RIVER</u>							
Clear Creek Ridge #2	8000	3/28	2.61	2.73b	18.74	14.32*	131
Gooseberry Reservoir	8700	3/28	3.50	3.44b	23.90	17.27b	138
Indian Canyon	9100	3/22	4.00	2.32b	20.05	13.06b	153
Mammoth R.S. #2	8600	3/28	3.40	3.83b	24.00	18.23b	132
Mud Creek	8300	3/27	3.76	2.99*	20.20	14.30*	141
White River #1	8600	3/26	2.71	2.52b	15.12	12.98*	116
<u>SAN RAFAEL RIVER</u>							
Buck Flat	9400	3/26	3.35	3.69*	20.70	16.15*	128
G.B.R.C. Meadows x	10000	3/30	4.60	4.62	21.20	21.03	100
Gooseberry Reservoir x	8700	3/28	3.50	3.44b	23.90	17.27b	138
Orange Olsen	7300	3/28	1.70	- -	10.90	- -	- -
Red Pine Ridge	9400	3/28	3.15	3.83b	22.25	18.98*	117
Stuart R.S.	7950	3/28	- -	- -	14.60	11.21*	130
<u>FREMONT & MUDDY RIVERS</u>							
Dill s Camp	9200	3/27	2.60	- -	17.50	- -	- -
Black's Flat-U.M. Crk	9250	3/26	2.12	2.87b	15.04	11.80*	127
Farnsworth Lake x	9900	4/3	6.80	4.63b	26.69	18.15b	147
Fish Lake	8700	3/26	1.76	1.73b	12.23	8.11b	151
Widtsoe-Escalante #3	9500	3/29	6.60	2.49b	24.28	12.44b	195
<u>SOUTHEASTERN UTAH DRAINAGES</u>							
Buckboard Flat	9000	3/21	6.03	2.88b	39.67	16.92b	234
Camp Jackson	8600	3/21	5.02	2.65*	36.02	14.31*	252
LaSal Mountain (upper)	9600	3/22	3.96	- -	24.19	14.56*	166

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



APRIL 1, 1973

THE WATER SUPPLY OUTLOOK IS EXCELLENT

SNOW COVER varies from 217% of average on the East Fork to 135% on the Lower Sevier and San Pitch. The South Fork Sevier is 192% of the April 1 average. Chalk Creek is better than double average. Beaver River is 152% of average.

PRECIPITATION varied from near average on the San Pitch to twice average on the Upper Sevier during March.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is 144% of average on the Sevier and 113% of average on the Beaver. Gunnison is full.

STREAMFLOW FORECASTS range from 125% on Ephraim Creek to 299% of the April-July average on East Fork of Sevier. Mean daily peak flows on the Upper Sevier are expected to be two or three times average. Primary rights are expected to be above average this year. Chalk Creek near Fillmore is forecast at 227% of average and mean daily peak flow is expected to be 350-400 c.f.s..

APRIL 1, 1973

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
SEVIER RIVER					
Chalk Creek nr Fillmore	30	227	Apr-July		13.2
Clear Crk nr Sevier (above div.)	19.2	154	Apr-July		12.5b
East Fork Sevier nr Kingston (1)	35	299	Apr-July		11.7
Antimony Crk nr Antimony Inflow	10.8	183	Apr-July		7.8b
Kingston to Vermillion Dam	50	162	Apr-June		30 b
Vermillion Dam to Gunnison	60	133	Mar-June		45 b
Salina Crk at Salina (1)	14.0	237	Apr-June		5.9*
Sevier nr Circleville	60	222	Apr-July		27
Sevier nr Gunnison	55	177	Apr-July		31 b
Sevier nr Hatch	65	197	Apr-July		33
Sevier nr Kingston	40	260	Apr-July		15.4
Sevier below Piute Dam (1)	71	245	Apr-July		29
SAN PITCH RIVER					
Ephraim Creek nr Ephraim	17.4	125	Apr-July		13.9b
Pleasant Crk nr Mt. Pleasant	10.0	128	Apr-July		7.8b
BEAVER RIVER					
Beaver nr Beaver	27	144	Apr-July	64	18.9
Minersville Reservoir Inflow (1)	7.5	160	Apr-June		4.7

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 29	July 19
Salina Creek at Salina	25	June 14	June 10
Sevier at Circleville(Circle Valley)	90	July 11	June 24
Sevier at Hatch (upper)	100	Aug. 1	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
<u>Sevier River</u>			
Below Vermillion Dam	65	58	Apr-Sept
Circle Valley	90	66	Apr-Sept
Panguitch Valley	100	84	Apr-Sept
Sevier Valley	55	40	Apr-Sept

OTHER SPECIAL FORECASTS

Below Vermillion - Flow above 360 second feet should total about 4000 - 4500 acre feet this year.

Inflow to Sevier Bridge Reservoir from October 1 to March 31 was 77,200 acre feet

-
- (1) - Observed flow corrected for change in storage and diversions
 - b - Average for all past record within 15-yr period, but less than 15 years.
 - * - Partly estimated
 - x - Adjacent drainage

SEVIER RIVER BASIN INCLUDING BEAVER RIVER

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>UPPER SEVIER RIVER (South of Richfield, Utah)</u>						
Box Creek	9800	3/28	60	17.1	6.6	11.7b
Bryce Canyon	8000	4/3	40	11.3	0.0	2.0
Castle Valley	9700	3/27	64	18.6	6.7	11.7b
Duck Creek R.S.	8700	3/28	80	23.7	1.8	11.8
Farview	8700	4/3	59	17.8	0.0	- -
Fish Lake	8700	3/26	40	11.4	0.0	5.7
Harris Flat R.S.	7700	3/28	60	16.8	0.0	5.7
Kimberly Mine	9300	3/26	67	21.9	7.2	14.3
Midway Valley	9800	3/29	104	35.9	16.4	20.2b
Panguitch Lake	8200	3/27	36	9.3	0.0	2.2
Squaw Springs	9300	3/28	44	11.3	0.0	6.3b
Widtsoe-Escalante Smt.	9500	3/29	57	13.8	0.0	5.4
Widtsoe-Escalante #2	9500	3/29	62	16.0	5.4	8.1
Widtsoe-Escalante #3	9500	3/29	75	20.2	9.6	7.4b
<u>LOWER SEVIER RIVER (Including San Pitch)</u>						
Beaver Dams	8000	3/27	38	12.8	0.3	11.2
Farnsworth Lake	9900	4/3	86	26.5	16.6	17.4
G.B.R.C. Headquarters	8700	3/30	67	20.4	9.5	16.1
G.B.R.C. Meadows	10000	3/30	82	27.8	20.5	24.3
Gooseberry R.S.	8400	4/3	64	17.5	3.6	10.8
Huntington-Horseshoe	9800	3/28	74	26.2	16.5	23.4
Mammoth R.S.-Ctnwd. Crk.	8800	3/28	62	22.5	13.2	19.0
Middle Fork	9600	3/26	80	27.6	19.0	22.5b
Mt. Baldy R.S.	9500	3/27	75	26.6	18.0	21.8
Oak Creek	7760	Delayed Data			3.7	- -
Pickle Keg Springs	9600	4/4	- -	22.5*	7.8	- -
Pine Creek	8700	4/4	97	31.3	0.0	15.0
Ree's Flat	7300	3/22	50	14.6	5.5	12.0b
Shingle Mill	6200	4/4	67	20.8	1.5	8.3b
Thistle Flat	8500	3/26	53	18.9	9.8	15.5b
<u>BEAVER RIVER</u>						
Big Flat	10290	3/27	81	24.1	12.8	16.9
Merchant Valley	8200	3/27	50	14.7	0.0	8.1
Otter Lake	9300	3/27	67	19.6	9.3	13.3

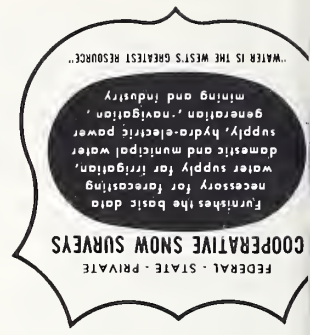
RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Sevier River</u>	Gunnison	18.2	18.1	18.1	- -
	Otter Creek	52.5	34.3	39.4	27.9
	Piute	71.8	56.2	66.4	38.8
	Sevier Bridge	236.0	142.7	185.7	95.8
<u>Beaver River</u>	Minersville(Rky Fd)	23.3	13.5	17.0	11.8

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PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
SEVIER RIVER							
Beaver Dams	8000	3/27	2.70	3.02b	18.26	14.32b	127
Box Creek	9800	3/28	4.36	3.07b	19.83	13.20b	150
Castle Valley	9700	3/27	4.80	3.19b	22.97	14.49b	158
Duck Creek R.S.	8560	3/28	8.38	3.20b	32.55	16.65*	195
Farnsworth Lake	9900	4/3	6.80	4.63b	26.69	18.15b	147
Fish Lake	8700	3/26	1.76	1.73b	12.23	8.11b	151
G.B.R.C. Headquarters	8700	3/30	4.45	3.80	18.35	17.57	104
G.B.R.C. Meadows	10000	3/30	4.60	4.62	21.20	21.03	100
G.B.R.C. Oaks	7655	3/30	3.15	2.53	16.50	12.05	137
Gooseberry R.S.	7800	4/3	5.45	3.03	20.26	12.59*	161
Gooseberry Reservoir x	8700	3/28	3.50	3.44b	23.90	17.27b	138
Kimberly Mine	8900	3/26	5.20	4.04	26.40	17.12*	154
Mt. Baldy	9500	3/27	4.25	3.42b	22.20	15.85b	140
Oak Creek	7760	Delayed Date		- -	- -	- -	- -
Panguitch Lake	8200	3/27	2.71	1.29b	14.18	6.80b	208
Pickle Keg Springs	9600			- -	- -	- -	- -
Pine Creek	8700	4/4	11.51	5.65b	40.55	21.74b	186
Shingle Mill	6200	4/4	7.61	3.17b	26.66	13.75b	194
Webster Flat x	9200	3/30	7.75	3.13	28.58	17.95b	159
Widtsoe-Escalante #3	9500	3/29	6.60	2.49	24.28	12.44b	195
Widtsoe R.S.	7600	3/29	1.52	0.77	8.47	4.55	186
Beaver Canyon P.H.	7275	3/30	3.17	- -	14.63	- -	- -
Big Flat	10290	3/27	4.70	3.66b	24.84	15.52*	160
Merchant's Valley	8650	3/27	4.39	- -	20.71	- -	- -

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Beaver near Beaver	250 - 490	215
Clear Creek near Sevier	185 - 225	156b
Salina Creek near Salina	280 - 330	133*
Sevier River at Hatch	600 - 850	370
Sevier River at Circleville	560 - 780	292
Sevier River at Kingston	500 - 650	223

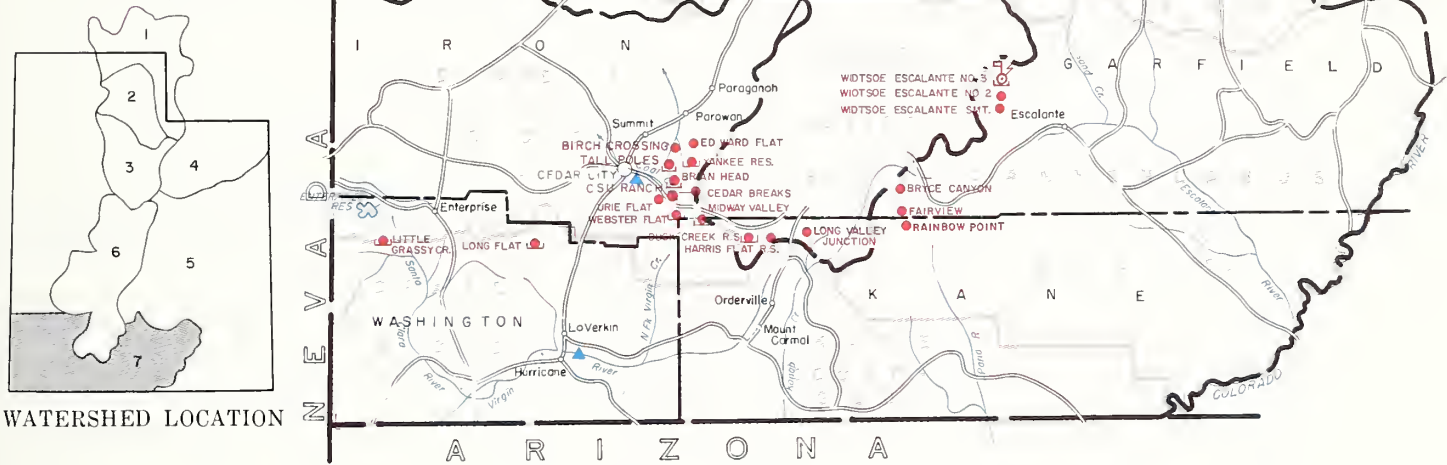
WATER SUPPLY OUTLOOK

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**

LEGEND

- Watershed Boundary
- - - S. C. D. Boundary
- County Boundary
- ▲ Forecast Point
- Snow Course
- Aerial Marker
- + Soil Moisture Station
- SCS Precipitation Gage
- NWS Precipitation Gage
- Temperature Gage
- Snow Sensor
- Radio Telemetry
- Radio Base Station
- Radio Relay Station
- Snow Sensor with Snow Course



APRIL 1, 1973

THE WATER SUPPLY OUTLOOK IS EXCELLENT

SNOW COVER is two to seven times the April 1 average and has set new record water contents at Yankee Meadows, Long Flat, and Little Grassy snow courses.

PRECIPITATION for March varied from 160% of average at Long Flat to 322% at Little Grassy. All other mountain stations in this area caught more than double the average for the month.

SOIL MOISTURE is above average.

RESERVOIR STORAGE in Lake Powell is now 48% of useable capacity and 7% less than a year ago.

STREAMFLOW FORECASTS range from 118% of average for the inflow to Lake Powell to better than five times average on the Santa Clara, Virgin River forecast was raised to 237% of the April-June average and Coal Creek 210% of average. Mean daily peak flow on the Virgin near Virgin is expected to be between 1360 - 1850 cfs and 440 - 700 cfs on Coal Creek. Other streams in this area are expected to peak much higher than usual due to extremely heavy snow at low and medium elevations.

Report prepared by
BOB L. WHALEY
U. S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

APRIL 1, 1973

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>VIRGIN RIVER</u>					
Virgin nr Virgin	90	237	Apr-June		38
Santa Clara nr Pine Valley	18.0	545	Apr-June		3.3 ^b
Santa Clara nr Gunlock	26.0	520	Apr-June		5.0*
<u>COAL CREEK</u>					
Coal Crk nr Cedar City	29	210	Apr-July		13.8
<u>UPPER COLORADO</u>					
Lake Powell Inflow	7683	118	Apr-July		6527

WSFB-x1-L

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Virgin nr Virgin	1360 - 1850	557
Coal Creek nr Cedar City	440 - 700	217

WSFB-x2-L

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Colorado</u>	Lake Powell	25002.0	11966.0	13424.0	5156.0
b - Average for all past record within 15 year period, but less than 15 years x - Adjacent drainage * - Partly estimated					

EAST GARFIELD, KANE, WASHINGTON & IRON

SNOW

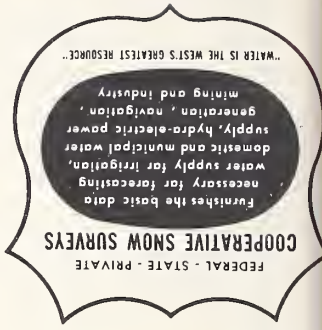
DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>ESCALANTE RIVER</u>						
Widtsoe-Escalante Smt.	9500	3/29	57	13.8	0.0	5.4
Widtsoe-Escalante #2	9500	3/29	62	16.0	5.4	8.1
Widtsoe-Escalante #3	9500	3/29	75	20.2	9.6	9.4b
<u>PARIA RIVER</u>						
Bryce Canyon x	8000	4/3	40	11.3	0.0	2.0
Rainbow Point x	9100	4/3	51	14.5	0.0	- -
<u>VIRGIN RIVER & COAL CREEK</u>						
CSU Ranch	8200	3/29	53	15.3	0.0	- -
Duck Creek R.S.	8700	3/28	80	23.7	1.8	11.8
Harris Flat x	7700	3/28	60	16.8	0.0	5.7
Long Valley Jct.	7500	3/28	44	11.9	0.0	1.2
Midway Valley x	9800	3/29	104	35.9	16.4	20.2b
Urie Flat	8450	3/30	50	15.9	0.0	5.1b
Webster Flat	9200	3/29	88	28.4	5.8	14.1
<u>PAROWAN CREEK</u>						
Birch Crossing	8100	3/28	41	10.5	0.0	- -
Brian Head	10000	3/28	93	28.4	16.3	- -
Ed Ward Flat	8300	4/4	67	17.1	0.0	6.5
Tall Poles	8800	3/28	70	19.8	10.3	- -
Yankee Reservoir	8700	4/4	77	19.8	1.9	9.1
<u>ENTERPRISE TO NEW HARMONY DRAINAGES</u>						
Little Grassy Creek	6100	3/30	44	17.9	0.0	0.4b
Long Flat	8000	4/4	62	21.0	0.0	5.1b

"The Conservation of Water begins with the Snow Survey"

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PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>ESCALANTE RIVER</u>							
Widtsoe-Escalante #3	9500	3/29	6.60	2.49b	24.28	12.44b	195
<u>VIRGIN RIVER</u>							
Duck Creek R.S.	8560	3/28	8.38	3.20b	32.55	16.65*	195
Webster Flat	9200	3/30	7.75	3.13*	28.58	17.95*	159
<u>COAL CREEK</u>							
Webster Flat x	9200	3/30	7.75	3.13*	28.58	17.95*	159
<u>PAROWAN CREEK</u>							
Tall Poles	8800	3/28	6.60	- -	24.00	- -	- -
Yankee Reservoir	8700	4/4	7.75	2.84b	23.30	11.33b	205
<u>ENTERPRISE TO NEW HARMONY DRAINAGE</u>							
Little Grassy Creek	6100	3/30	7.05	2.19b	27.90	11.68*	239
Long Flat	8000	4/4	4.25	2.65b	23.95	11.56b	207

Agencies Cooperating in Utah Snow Surveys

U. S. GOVERNMENT AGENCIES

U. S. Department of Agriculture
Soil Conservation Service
Forest Service
U. S. Department of Commerce
NOAA, National Weather Service
U. S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE AGENCIES

Utah State University
Utah Fish and Game Department
Utah State Department of Natural
Resources, Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association

PRIVATE AGENCIES

Kaiser Steel Corporation

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
FEDERAL BLDG., — ROOM 5434
125 SOUTH STATE ST.
SALT LAKE CITY, UTAH 84111

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with the Snow Survey"*