FEDERAL - STATE - PRIVATE COOPERATIVE

SNOW SURVEY and WATER SUPPLY FORECASTS for UTAH

UNITED STATES DEPARTMENT of AGRICULTURE···SOIL CONSERVATION SERVICE,

and

STATE ENGINEER of UTAH and UTAH AGRICULTURAL EXPERIMENT STATION

in cooperation with

U. S. Forest Service, U. S. National Park Service,
U. S. Geological Survey and
State and Local Irrigation Organizations

AS OF

JAN. 1, 1958

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS and WATER SUPPLY FORECASTS

for

U T A H

JANUARY 1, 1958

Report Prepared
by

Gregory L. Pearson - Hydraulic Engineer
Soil Conservation Service
222 South West Temple
Salt Lake City 1, Utah

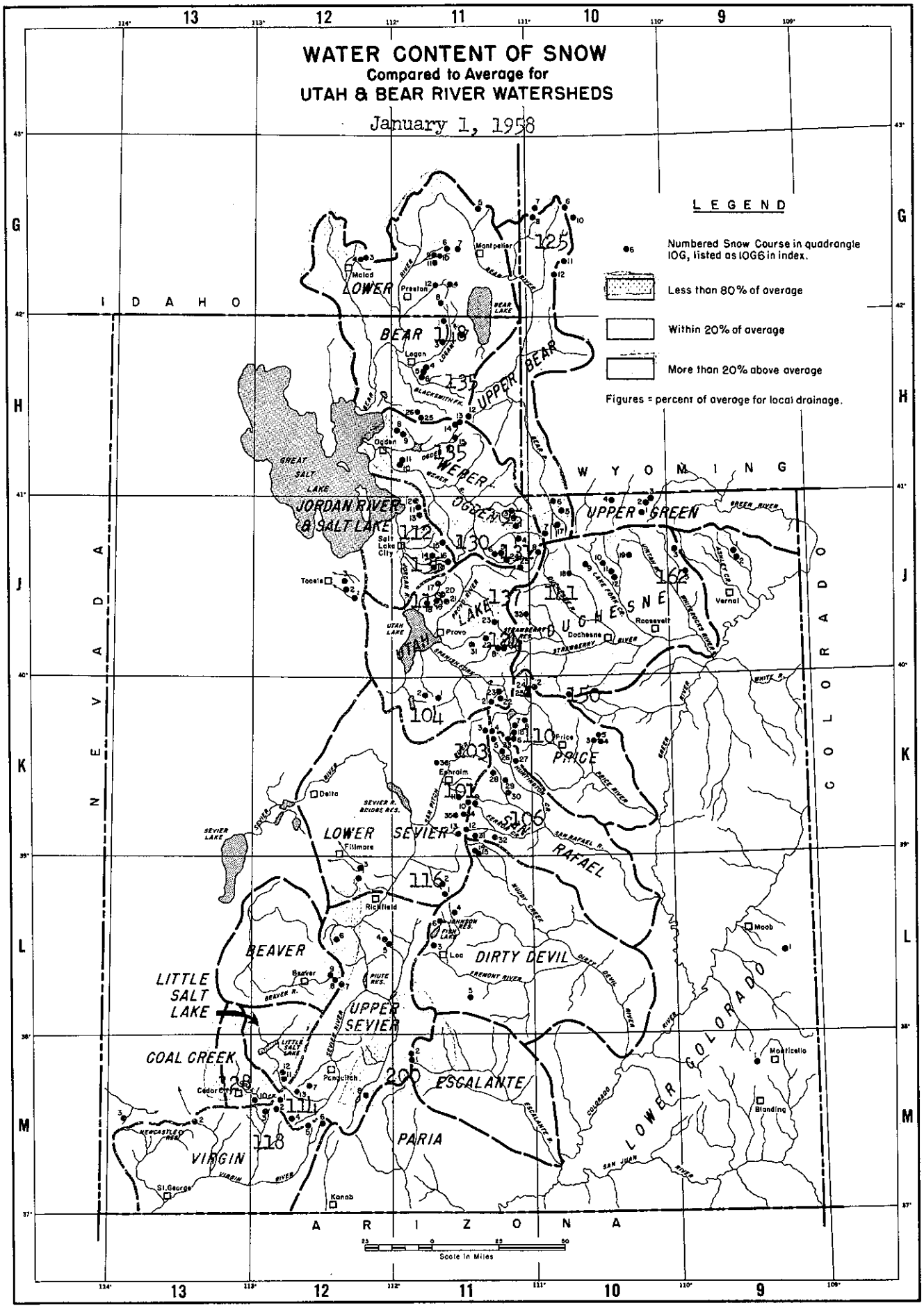
Issued
by
J. A. LIBBY
State Conservationist
Soil Conservation Service
Salt Lake City 1, Utah

Wayne D. Criddle
State Engineer
State of Utah
Salt Lake City, Utah

Dr. D.W. Thorne, Director
Utah Agricultural EXp.Station
Logan, Utah
(Mimeograph Series No. 438)

WATER CONTENT OF SNOW
Compared to Average for
UTAH & BEAR RIVER WATERSHEDS

January 1, 1958



U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE USDA-SCS-PORTLAND, OREG. 1958

M-925

WATER SUPPLY OUTLOOK

FOR UTAH

January 1, 1958

****
* The water stored in the snow pack as measured near the *
* first of January varied from 95% to 200% of average on *
* the state's watersheds, with the heaviest snow pack in *
* the north and south while in the center of the state *
* it is near average. Soil Moisture is near average in *
* the northern part of the state, much above in the cen- *
* tral and southern part. Reservoir storage is 55% of *
* capacity, 143% of last year and 134% of average. *
****

GENERAL OUTLOOK

The water supply outlook for next summer is now good on all watersheds of the state.

On Chalk Creek east of Coalville the snowpack is 95% of average, the lowest in the state. The heaviest snowpack, percentagewise, is 200% on the watersheds of the Escalante and East Fork of the Sevier rivers. In the center of the state, the tributaries of the San Pitch, San Rafael, upper Price and Spanish Fork rivers and the streams coming from Mt. Nebo have a snowpack varying from 101% to 110%.

On the mountains of the Uintah Basin, the upper Provo, Weber(with the exception of Chalk Creek as noted above), Ogden and the Bear river including the tributaries in Cache Valley, the snowpack varies from 124% to 162% of average. Above Farmington, it is 112%, near Salt Lake 135%, and 118% on the American Fork river.

In the southwest on the Sevier river above Panguitch, the average snowpack is 114%. At the lower elevations it is near average and increases to 140% at Midway Valley. The moisture in the soils is the best it has been for years. This is demonstrated by the fact that since the first of Oct. there has been 5.00 inches of water go in the ground at Duck Creek Ranger Station in addition to the snow water which is lying on the ground. At Webster Flat on the Virgin river 4.90 inches of water have gone into the ground in addition to the snowpack water which is 115% of average. On Coal Creek above Cedar City, the snow is 128%.

Although snow surveys were not made on the Beaver River this month, a survey of the Big Flat snow course made December 1 showed 130% of the January 1 average. By now it is estimated to be about 170% of average.

Most years about 35 to 40 percent of the total snowpack to be expected has accumulated by the first of January. This leaves the major portion yet to come, so that the water supply prospects may change considerably, up or down, as the rest of the winter's snow accumulates.

COMPARATIVE SNOW DATA

Summary of Snow Survey Data by Tributary Watersheds as of January 1, 1958

TRIBUTARY BASINS	No. of Courses Averaged	Years of Record	1958 Snow Water Expressed as Percent of 1957	1956	& 1938-52 A	
GREAT BASIN						
Logan River	4	4-7	145	95	148	*
Blacksmith Fork-Little B ear	6	1-7	155	107	135	*
Ogden River	6	0-4	180	117	135	*
Weber River above Echo Dam	6	2-22	120	120	131	*
East Canyon Creek	3	4-22	125	92	130	*
Farmington Creek	2	4-6	128	108	112	*
Salt Lake Area	3	4-22	128	104	135	*
American Fork River	2	22	188	84	118	
Provo River above Vivian Park	5	2-26	131	101	137	*
Strawberry Reservoir Valley	3	18-26	170	98	124	
Payson Creek	1	5	144	129	104	*
Sevier River Above Panguitch	4	1-5	575	190	114	*
East Fork Sevier River	2	7-19	470	190	200	*
Salina Creek	2	0	-	-	116	*
San Pitch River	3	1-17	145	106	101	*
Coal Creek-Cedar City	2	3-4	590	152	128	*
COLORADO RIVER BASIN						
Duchesne-Strawberry Rivers	6	2-26	163	104	132	*
Whiterocks - Uintah Rivers	2	0-1	227	-	162	*
Price River	2	1-18	225	98	110	*
San Rafael River	2	1-6	166	107	106	*
Escalante River	2	7-19	470	190	200	*
Virgin River	4	3-5	595	155	118	*

* Several of the snow courses used in calculating these averages have only been measured for a few years on January 1, but have up to 34 years of record on April 1. The percent of average January 1 water content on these courses was calculated based on the percent of the April 1st water content of the snow that usually accumulates by January 1 on courses having such records, and that are similarly located as to elevation and exposure.

STATUS OF UTAH RESERVOIR STORAGE - JANUARY 1, 1958 (1)

BASIN and/or STREAM	RESERVOIR	USABLE CAPACITY 1000's AF	USABLE STORAGE - 1000 ACRE FEET 1958	1957	1956	15-Yr.Avg. 1938-52
		GREAT BASIN				
Bear River	Bear Lake	1421.0	978.2	804.9	612.9	709.8
Little Bear	Hyrum	15.3	2.1	10.4	11.4	9.0(2)
Ogden	Pine View	110.0	68.0	0.0	10.3	9.3
Weber	Wanship	59.1	41.4	- -	- -	---
	Echo	73.9	34.3	16.3	24.9	23.5
	East Canyon	28.7	15.7	12.0	7.7	15.0
Provo	Deer Creek	144.7	99.2	72.1	82.1	67.3(3)
Spanish Fork	Strawberry	283.0	150.6	132.7	143.2	93.6
Utah Lake	Utah Lake	1149.0(4)	499.4	349.2	421.9	396.9
Sevier River	Otter Creek	52.5	16.9	6.4	8.4	28.1
	Piute	74.0	27.3	10.7	14.1	34.9
	Sevier Bridge	236.0	70.4	19.9	29.7	120.2
Beaver River	Rocky Ford	23.3	15.0	3.9	5.5	13.1
		COLORADO RIVER DRAINAGE				
Lake Fork	Moon Lake	35.8	No Report	5.2	6.1	13.2
Price River	Scofield	65.8	37.6	2.4	4.4	11.7(5)

(1) All data contained in this table supplied by the U. S. Geological Survey
(2) Average for 1939-53
(3) Average for 1941-55
(4) Active capacity taken at 3.1 feet above compromise point
(5) Average for 1943-52

UTAH SNOW SURVEYS - ABOUT JANUARY 1, 1958

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1957	1956	1938-52 AV.	Prior Yrs. of Record
GREAT BASIN DRAINAGE									
BEAR RIVER above Harer, Idaho									
Trial Lake x	10J8	9800	12/27	50	12.7	11.7	--	--	2
Salt River Summit x	10G8	7900	12/30	35	7.8	7.3	10.1	6.6**	9
CCC Camp x	10G7	7500	12/30	26	6.0	6.5	7.2	4.5*	20
BEAR RIVER below Harer, Idaho									
Garden City Summit	11H7	7900	12/30	45	10.4	7.3	13.0	8.1**	7
Willow Flat	11G4	6100	No Report			7.5	--	--	1
Franklin Basin R.S.	11G8	8200	1/2	49	14.4	11.6	19.3	--	4
Klondike N arrows	11H1	7400	1/2	41	11.9	8.3	12.6	--	4
Tony Grove R.S.	11H3	6250	12/30	32	6.3	3.7	4.7	4.0**	6
Monte Cristo R.S.	11H12	8960	12/27	44	12.6	--	--	--	0
Dry Bread Pond	11H13	8230	12/27	35	9.2	--	--	--	0
Beaver Crk-Skunk Crk.	11H14	7150	12/27	25	7.2	--	--	--	0
Little Bear(upper)	11H25	6850	12/30	32	6.2	4.0	--	--	1
Little Bear(lower)	11H26	6100	12/30	30	6.0	2.7	--	--	1
OGDEN RIVER									
Monte Cristo R. S.	11H12	8960	12/27	44	12.6	--	--	--	0
Dry Bread Pond	11H13	8230	12/27	35	9.2	--	--	--	0
Beaver Crk-Skunk Crk.	11H14	7150	12/27	25	7.2	--	--	--	0
Sagebrush Flat	11H15	6300	12/27	12	2.9	--	--	--	0
Ben Lomond(lower)	11H9	6000	12/30	34	9.2	5.1	1.3	--	2
Mt. Ogden	11H10	8600	1/2	41	14.3	7.4	15.8	--	4
Snow Basin	11H11	6500	1/2	31	7.8	4.0	5.4	--	4
WEBER RIVER									
Trial Lake x	10J8	9800	12/27	50	12.7	11.7	--	--	2
Smith & Morehouse	11J4	7600	1/2	26	7.3	6.0	4.6	--	4
Beaver Creek R. S.	11J24	7500	1/2	23	6.2	4.0	3.3	--	4
Chalk Creek #2	11J2	8200	1/2	26	6.2	7.1	7.9	--	3
Chalk Creek #3	11J3	7500	1/2	18	4.3	4.0	1.5	--	3
Silver Lake x	11J16	8725	12/31	49	12.8	9.4	20.8	10.9*	22
Parley's Canyon Smt.	11J15	7500	1/2	37	10.0	8.8	8.2	--	4
Lamb's Canyon x	11J14	6600	No Report			6.6	5.6	5.7**	9

x - Adjacent Drainage.
* - Less than 15 years in 1938-52 period. Average for 15 years nearest base period.
** - Average for period of record.

UTAH SNOW SURVEYS - ABOUT JANUARY 1, 1958

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1957	1956	1938-52 AV.	Prior Yrs. of Record
PROVO RIVER and UTAH LAKE									
Trial Lake	10J8	9800	12/27	50	12.7	11.7	- -	- -	2
Soapstone R. S.	11J25	7800	12/27	31	7.6	5.8	6.0	5.0**	5
Daniels-Strawberry Smt.	11J23	8000	12/30	33	7.5	4.5	8.1	5.0*	26
Strawberry Divide	11J8	8000	12/31	38	9.5	7.0	11.0	9.0*	18
East Portal	11J7	7560	12/31	25	5.4	2.6	4.7	4.7*	19
Payson R. S.	11K1	8050	12/29	29	7.5	5.2	5.8	5.2**	5
Rock Bridge	11K2	6750	12/29	21	5.4	3.5	3.2	- -	4
Timpanogas Divide	11J21	8200	12/30	41	12.1	7.5	19.0	10.7	22
Camp Altamont	11J20	7300	12/30	33	9.0	4.2	8.7	7.4	22
South Fork R. S.	11J19	6100	12/30	15	4.3	2.8	Trace	4.2*	16
Timpanogas Cave Camp	11J18	5500	12/30	Trace	Trace	Trace	0.0	2.5**	13
JORDAN RIVER and GREAT SALT LAKE									
Silver Lake	11J16	8725	12/31	49	12.8	9.4	20.8	10.9*	22
Mill D. South Fork	11J10	7400	12/31	43	11.0	8.3	8.6	- -	4
Lamb's Canyon	11J14	6600	No Report			6.6	5.6	5.7**	9
Parley's Canyon Smt. x	11J15	7500	1/2	37	10.0	8.8	8.2	- -	4
Farmington Canyon (Upper)	11J11	8000	12/29	43	12.3	10.5	12.4	- -	4
Farmington Canyon (Lower)	11J12	6950	12/29	35	9.4	6.8	8.1	7.3**	6
Middle Canyon	12J3	7000	12/30	27	6.9	5.7	- -	- -	1
SEVIER RIVER above RICHFIELD									
Midway Valley	12M2	9400	12/30	46	14.0	2.3	9.4	- -	3
Duck Creek R. S.	12M4	8560	12/31	27	7.3	1.2	5.4	2.9**	5
Harris Flat R. S.	12M5	7700	12/31	14	4.0	Trace	1.4	1.3**	5
Long Valley Junction x	12M6	7500	12/31	Trace	Trace	0.0	0.0	- -	4
Castle Valley	12M13	9700	12/27	26	6.5	1.3	- -	- -	1
Panguitch Lake	12M7	8200	12/27	10	1.7	0.0	- -	- -	1
Bryce Canyon	12M8	8000	12/31	12	2.8	0.0	0.2	- -	3
Widtsoe-Escalante Summit	11M1	9500	12/30	20	6.0	Trace	3.2	3.0*	19
Widtsoe-Escalante #2	11M2	9500	12/30	28	8.0	1.7	4.1	3.6**	7

x - Adjacent Drainage.
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** - Average for period of record.

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1957	1956	1938-52 AV.	Prior Yrs. of Record
SEVIER RIVER below Richfield including SAN PITCH RIVER									
Farnsworth Lake	11L1	9900	1/4	32	8.1	--	--	--	0
Gooseberry R. S.	11I2	8400	1/4	21	5.5	--	--	--	0
Gooseberry Reservoir	11K4	8700	1/3	32	9.1	4.8	--	--	1
G.B.R.C. Meadows	11K10	10000	1/2	42	11.2	8.4	10.5	9.6**	6
G.B.R.C. Headqrs.	11K11	8700	1/2	25	6.4	5.6	6.1	5.2*	17
COAL CREEK									
Midway Valley x	12M2	9400	12/30	46	14.0	2.3	9.4	--	3
Webster Flat x	12M3	9200	12/30	30	8.6	1.5	5.6	--	4
Urie Flat	12M10	8450	12/30	11	3.5	Trace	0.0	--	3
COLORADO RIVER DRAINAGE									
DUCHESNE RIVER									
Trial Lake x	10J8	9800	12/27	50	12.7	11.7	--	--	2
Soapstone R. S. x	11J25	7800	12/27	31	7.6	5.8	6.0	5.0**	5
Daniels-Strawberry Smt	11J23	8000	12/30	33	7.5	4.5	8.1	5.0*	26
Strawberry Divide x	11J8	8000	12/31	38	9.5	7.0	11.0	9.0*	18
East Portal x	11J7	7560	12/31	25	5.4	2.6	4.7	4.7*	19
Indian Canyon	10K1	9100	1/3	25	6.6	2.9	6.7	4.4*	18
Paradise Park	9J3	10500	1/2	33	8.0	--	--	--	0
Julius Park	9J6	9800	1/2	35	8.7	New Course		--	0
Mosby Mtn. (lower)	9J5	9500	1/2	28	.6.8	3.0	--	--	1
PRICE RIVER									
Gooseberry Reservoir	11K4	8700	1/3	32	9.1	4.8	--	--	1
Mud Creek #2	11K33	8300	1/2	30	6.8	4.8	7.0	--	2
Staley Ranch	11K7	7600	1/2	19	3.8	1.8	3.3	2.5**	12
Dry Valley Divide	11K8	7800	1/2	27	5.7	2.1	7.0	3.3**	12
White River #3	11K25	7400	1/2	23	4.7	2.4	5.0	--	2
Indian Canyon x	10K1	9100	1/3	25	6.6	2.9	6.7	4.4*	18
SAN RAFAEL RIVER									
Gooseberry Reservoir x	11K4	8700	1/3	32	9.1	4.8	--	--	1
Red Pine Ridge	11K28	9400	Delayed Data			--	--	--	0
Buck Fla t	11K31	9400	Delayed Data			--	--	--	0
ESCALANTE RIVER									
Widtsoe-Escalante Smt.	11M1	9500	12/30	20	6.0	Trace	3.2	3.0*	19
Widtsoe-Escalante #2x	11M2	9500	12/30	28	8.0	1.7	4.1	3.6**	7
VIRGIN RIVER									
Long Valley Junction	12M6	7500	12/31	Trace	Trace	0.0	0.0	--	4
Harris Flat R.S. x	12M5	7700	12/31	14	4.0	Trace	1.4	1.3**	5
Duck Creek R. S. x	12M4	8560	12/31	27	7.3	1.2	5.4	2.9**	5
Midway Valley x	12M2	9400	12/30	46	14.0	2.3	9.4	--	3
Webster Flat	12M3	9200	12/30	30	8.6	1.5	5.6	--	4

x - Adjacent Drainage.

* - Less than 15 years in 1938-52 period. Average for 15 years nearest base period.

** - Average for period of record.

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
- Weather Bureau

U. S. Department of the Interior
- Geological Survey
- National Park Service

STATE OF UTAH

Utah Agricultural Experiment Station
Utah State Engineer
- Little Bear River Commissioner
- Price River Commissioner
- Provo River Commissioner
- Sevier River Commissioner
- Spanish Fork River Commissioner
- Weber River Commissioner

Utah Water & Power Board

MUNICIPALITIES OR QUASI-MUNICIPALITIES

Salt Lake City Corporation

ORGANIZED PUBLIC AGENCIES

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

PRIVATE AGENCIES

Kaiser Steel Corporation

FEDERAL - STATE - PRIVATE COOPERATIVE

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AS OF

FEB. 1, 1958

FEDERAL-STATE COOPERATIVE
SNOW SURVEYS and WATER SUPPLY FORECASTS
for
U T A H

FEBRUARY 1, 1958

Report Prepared

by

R. T. Beaumont - Head Statistical Unit
Water Supply Forecasting Section
Soil Conservation Service
209 S.W. 5th, Portland, Oregon

and

W. E. Anderson - Civil Engineer
U.S.D.A. Field Party
109 West 2nd South
Salt Lake City, Utah

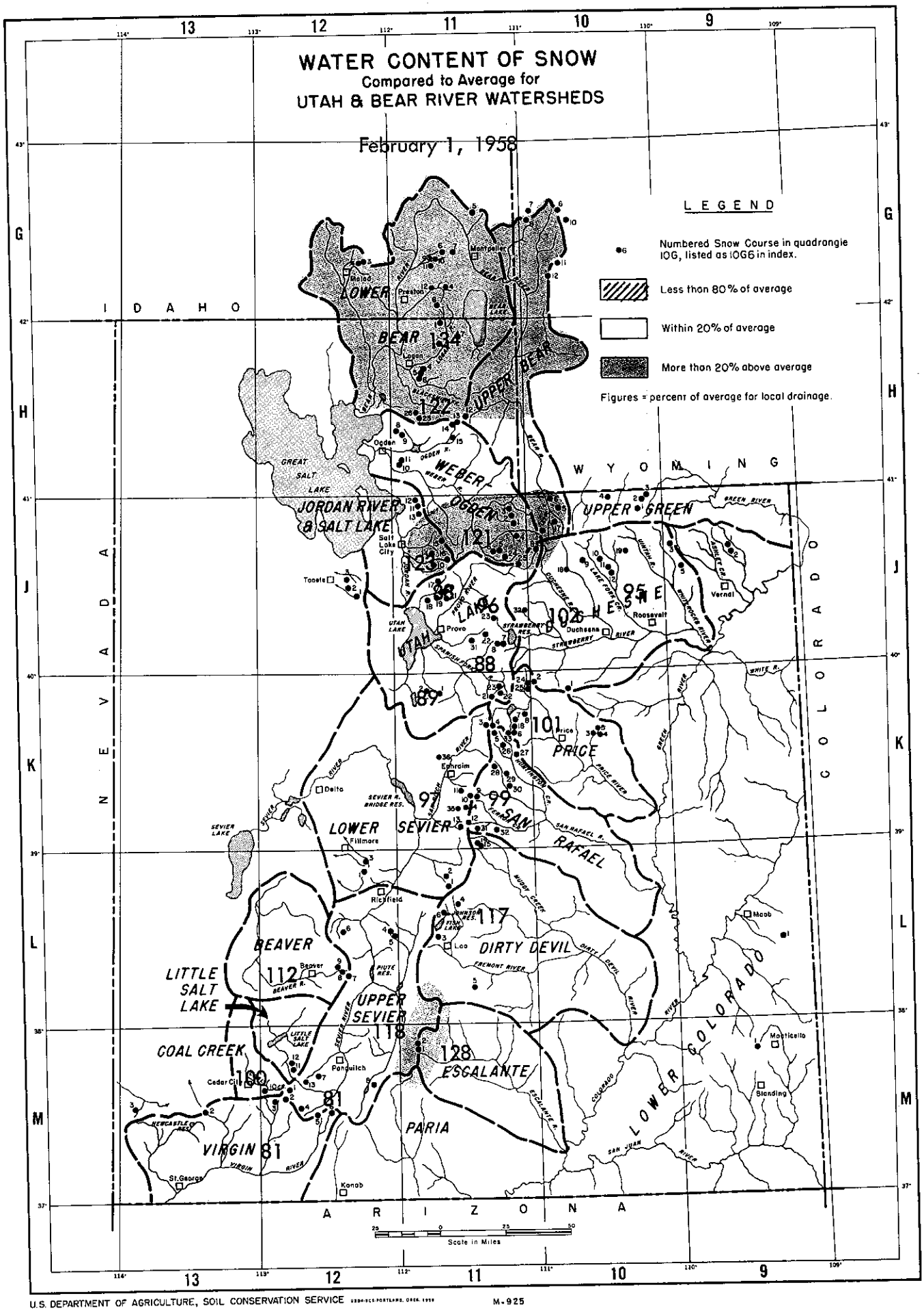
Gregory Pearson, Supervisor of Utah Cooperative Snow Survey SCS, who continues to be responsible for preparation of this report, was seriously injured in an automobile accident on January 17. His recovery is assured, but for the next several issues of this report his activity must necessarily be reduced.

Issued
by

J. A. LIBBY
State Conservationist
Soil Conservation Service
Salt Lake City 1, Utah

Wayne D. Criddle
State Engineer
State of Utah
Salt Lake City, Utah

Dr. D. W. Thorne, Dir.
Utah Agricultural Ext. Sta.
Logan, Utah
(Mimeograph Series #439



U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE USDA-SCS-PORTLAND, OREG. 1959 M-925

WATER SUPPLY OUTLOOK

for UTAH

FEBRUARY 1, 1958

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*****************************************
* The outlook for water supplies for the 1958    *
* irrigation season remains good for all water-  *
* sheds of the State. Results of the February 1 *
* Snow Surveys indicate near normal runoff for   *
* most parts of the State. Reservoir storage     *
* remains high with February 1 contents - 134%   *
* of average and 54% of capacity.                *
*****************************************
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GENERAL OUTLOOK

The amount of increase in the mountain snow pack was somewhat less than normal during January. However, the total accumulation this winter up to February 1 has been near average over most of the State. The Bear and Logan river basin reports show more than 20% above normal. Only a limited area of the rest of the State, principally the higher parts of the Weber drainage and the Wasatch front near Salt Lake City, are more than 20% above average.

There have been only a few isolated courses reported with water content more than 20% below average. Most courses in the State, however, range from slightly below average to only slightly above average for this date.

Irrigation water supplies should range from near average to slightly above average this season if weather conditions and snow pack accumulation during the remainder of the season are normal.

UTAH STREAMFLOW FORECASTS - FEBRUARY 1, 1958

The following summarized runoff forecasts are based principally on mountain snow cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts.

BASIN, STREAM and STATION	Seasonal streamflow in Thousands of Acre Feet						
	Forecast Runoff 1958	% 15-Yr Av.	Forecast Period	Measured Runoff 1957	1956	1955	15-Yr. Average 1938-52
GREAT BASIN							
BEAR RIVER SYSTEM							
Bear River near Evanston, Wyoming	133	94	Apr-Sept.	- -	124	74	142
Bear River near Randolph, Utah	93	80	Apr-Sept.	- -	94	26.4	116(1)
Little Bear River near Paradise, Utah	46	104	Apr-Sept.	- -	38	40	44
Logan River near Logan, Utah (2)	154	115	Apr-Sept	- -	155	99	133
Blacksmith Fork near Hyrum, Utah (3)	54	90	Apr-Sept.	- -	73	46	60
WEBER-OGDEN RIVERS							
Weber River near Oakley, Utah	130	101	Apr-Sept.	153	145	98	128
Weber River near Coalville, Utah (4)	147	106	Apr-Sept.	- -	136	97	138
Chalk Creek at Coalville, Utah	38	90	Apr-Sept.	53	35	18.6	42
East Canyon Creek near Morgan, Utah (5)	30	101	Apr-Sept.	28	16.9	14.1	29.2
South Fork Ogden River near Huntsville, Utah	51	78	Apr-Sept.	77	63	48	65

(1) Average runoff for 12 years, 1944-1955.
(2) Includes U.P.&L. Co tailrace and Logan, Hyde Park & Smithfield Canal.
(3) Above Utah Power and Light Company's dam.
(4) Includes diversion by Weber-Provo Canal.
(5) Observed flow plus change in storage in East Canyon reservoir.

UTAH STREAMFLOW FORECASTS - FEBRUARY 1, 1958

BASIN, STREAM and STATION	Seasonal streamflow in Thousands of Acre Feet						
	Forecast Runoff 1958	% 15-Yr Av.	Forecast Period	Measured Runoff 1957	1956	1955	15-Yr. Average 1938-52
PROVO RIVER & UTAH LAKE							
Spanish Fork at Thistle, Utah	43	96	Apr-Sept.	54	--	30	45
Provo River at Vivian Park, Utah (6)	164	99	Apr-Sept.	182	133	109	166
American Fork near American Fork, Utah	34	95	Apr-Sept.	--	32	26.4	36
JORDAN RIVER & SALT LAKE							
Little Cottonwood Creek near Salt Lake City, Utah	39	98	Apr-Sept.	38	37	34	40
Big Cottonwood near Salt Lake City	41	103	Apr-Sept.	50	35	34	40
Parley's Creek near Salt Lake City, Utah	20	131	Apr-Sept.	16	8.4	7.5	15.2
SEVIER RIVER							
Sevier River at Hatch, Utah	71	122	Apr-Sept.	--	25.8	23.8	58 (7)
Sevier River near Kingston, Utah	54	117	Apr-Sept.	--	5.3	7.5	46
BEAVER RIVER							
Beaver River near Beaver, Utah	50	147	Apr-Sept.	--	20.2	16.4	34
COAL CREEK							
Coal Creek near Cedar City, Utah	20	98	Apr-Sept.	--	--	10.1	20.4

(6) Observed flow plus flow at South Fork Provo River at Vivian Park, plus change in storage in Deer Creek reservoir, minus diversion by Weber-Provo Canal, minus diversion thru Duchesne tunnel, plus diversion thru Salt Lake Aqueduct.

(7) Average runoff for 15 years, 1940-1954.

UTAH STREAMFLOW FORECASTS - FEBRUARY 1, 1958

BASIN, STREAM and STATION	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1958	% 15-Yr. Av.	Forecast Period	Measured Runoff 1957	1956	1955	15-Yr. Average 1938-52
COLORADO RIVER BASIN							
UPPER GREEN RIVER							
Ashley Creek near Vernal, Utah	57	88	Apr-Sept.	- -	49	40	65
DUCHESNE RIVER							
Duchesne River near Tabiona, Utah (8)	123	101	Apr-Sept.	108	121	89	122
Rock Creek near Mountain Home, Utah	103	94	Apr-Sept.	124	111	80	109
Strawberry River at Duchesne, Utah	62	76	Apr-Sept.	79	59	49	82
Lakefork River below Moon Lake, Utah (9)	74	96	Apr-Sept.	- -	82	58	77 (9)
Uinta River near Neola, Utah	107	97	Apr-Sept.	- -	90	71	111
Whiterocks River near Whiterocks, Utah	64	89	Apr-Sept.	- -	54	47	72
PRICE RIVER							
Price River near Scofield, Utah (10)	44	102	Apr-Sept.	- -	28.7	26.6	43
Price River near Heiner, Utah (10)	76	99	Apr-Sept.	- -	48	45	77
SAN RAFAEL RIVER							
Huntington Creek near Huntington, Utah	64	103	Apr-Sept.	- -	44	36	62
Cottonwood Creek near Orangeville, Utah	64	100	Apr-Sept.	- -	41	35	64

[1] (8) Observed flow plus diversion through Duchesne tunnel.
(9) Observed flow plus change in storage in Moon Lake reservoir. Average runoff for 14 years, 1942-1955.
(10) Observed flow plus change in storage in Scofield reservoir.

STATUS OF UTAH RESERVOIR STORAGE - FEBRUARY 1, 1958 (1)

BASIN and/or STREAM	RESERVOIR	USABLE CAPACITY 1000s AF	USABLE STORAGE - 1000 ACRE FEET 1958	1957	1956	15-Yr. Av. 1938-52
		GREAT BASIN				
Bear River	Bear Lake	1421.0	983.7	828.4	663.1	706.0
Little Bear	Hyrum	15.3	5.4	10.4	10.7	10.2(2)
Ogden	Pine View	110.0	12.5	0.6	20.9	7.2
Weber	Wanship	59.1	40.1	- -	- -	- -
	Echo	73.9	35.7	19.3	33.3	22.9
	East Canyon	28.7	15.7	13.1	10.0	16.0
Provo	Deer Creek	144.7	99.7	76.3	86.1	65.5(3)
Spanish Fork	Strawberry	283.0	153.3	136.6	147.9	97.1
Utah Lake	Utah Lake	1149.0(4)	547.5	392.2	486.1	447.8
Sevier River	Otter Creek	52.5	20.8	9.2	12.1	31.1
	Piute	74.0	34.0	17.0	22.1	43.2
	Sevier Bridge	236.0	81.7	28.0	40.4	136.4
Beaver River	Rocky Ford	23.3	16.7	5.6	7.3	14.8
		COLORADO RIVER DRAINAGE				
Lake Fork	Moon Lake	35.8	23.6	6.7	7.7	15.1
Price River	Scofield	65.8	38.8	3.7	5.9	13.1(5)

(1) All data contained in this table supplied by U. S. Geological Survey.
(2) Average for 1939-53
(3) Average for 1942-55
(4) Active capacity taken at 3.1 feet above compromise point.
(5) Average for 1943-52

COMPARATIVE SNOW DATA

Summary of Snow Survey Data by Tributary Watersheds as of February 1, 1958

TRIBUTARY BASINS	No. of Courses Averaged	Years of Record	1958 Snow Water Expressed as Percent of 1957	1956	& 1938-52 Av.
		GREAT BASIN			
Logan River	4	4-11	126	99	134*
Blacksmith Fork	4	5-11	121	99	122*
Ogden River, South Fork	2	5	116	86	116*
Weber River above Echo Dam	7	4-23	95	91	121*
East Canyon Creek	3	7-23	110	91	120*
Salt Lake Area	4	5-23	115	95	123*
American Fork River	2	23	107	79	88*
Provo River Above Vivian Park	9	5-27	103	109	96*
Strawberry Reservoir Valley	3	22-27	79	70	88*
Mt. Nebo Area	1	4	77	89	89*
Sevier River above Panguitch	5	2-14	109	135	81*
East Fork Sevier River	3	7-20	173	183	118*
San Pitch River	4	7-19	99	85	97*
Beaver River	3	7-8	121	78	112*
Coal Creek-Cedar City	3	3-6	113	116	100*
		COLORADO RIVER BASIN			
Duchesne-Strawberry Rivers	11	5-22	103	65	102*
Lakefork River	2	5-7	132	58	95*
Whiterocks River	2	5	114	58	95*
Price River	5	7-22	101	85	101*
Huntington Creek	2	7	104	88	99*
Escalante River	2	7-20	193	121	128*
Virgin River	3	6-14	82	115	81*

* Several of the snow courses used in calculating these averages have only been measured for a few years on February 1, but have up to 31 years of record on April 1. The percent of average February 1 water content on these courses was calculated based on the percent of the April 1st water content of the snow that usually accumulates by February 1 on courses having such records and that are similarly located as to elevation and exposure.

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1957	1956	1938-52 Av.	Prior Yrs. of Record
GREAT BASIN DRAINAGE									
BEAR RIVER above Harer, Idaho									
Trial Lake x	10J8	9800	1/29	65	17.6	18.0	- -	16.4**	5
Poison Meadows x	10G6	8500	Delayed Data			- -	- -	- -	0
Piney LaBarge x	10G10	8820	Delayed Data			11.9	- -	- -	1
Big Park	10G11	8700	Delayed Data			- -	- -	- -	0
Kelly R. S.	10G12	8200	Delayed Data			- -	- -	- -	0
Salt River Summit x	10G8	7900	1/29	44	9.9	10.0	14.8	11.2**	9
CCC Camp x	10G7	7500	1/29	37	7.9	7.8	10.5	7.9	22
BEAR RIVER below Harer, Idaho									
Garden City Summit	11H7	7900	1/30	59	13.4	12.3	16.5	12.8**	11
Strawberry Mink Divide	11G10	6800	2/1	66	18.4	13.5	18.2	- -	2
Strawberry Creek	11G9	5800	1/29	42	10.2	7.6	9.7	- -	2
Christensen Ranch	11G11	5600	1/29	35	7.6	5.7	6.4	- -	2
Willow Flat	11G4	6100	1/30	52	13.4	10.7	13.0	- -	2
Cub River R. S.	11G12	5400	1/28	33	7.6	5.8	7.1	- -	2
Franklin Basin R.S.	11G8	8200	2/4	64	21.1	17.5	26.0	- -	4
Klondike N arrows	11H1	7400	2/4	57	17.1	12.9	19.0	- -	4
Tony Grove R. S.	11H3	6250	1/30	45	10.7	7.4	7.5	7.0**	9
Dry Bread Pond	11H13	8230	2/3	47	13.4	11.3	17.5	11.8**	5
Beaver Creek-Skunk Crk	11H14	7150	2/3	36	9.6	8.2	9.9	8.1**	5
Little Bear(upper)	11H25	6850	2/4	36	9.5	7.7	- -	- -	1
Little Bear (lower)	11H 26	6100	2/4	32	8.7	5.7	- -	- -	1
Oxford Mountain	12G3	6800	1/30	35	8.0"	5.8	7.4	- -	3
Dry Creek Flat	12G4	6350	1/30	30	7.0"	4.6	5.2	- -	3
OGDEN RIVER									
Dry Bread Pond	11H 13	8230	2/3	47	13.4	11.3	17.5	11.8**	5
Beaver Crk-Skunk Crk.	11H14	7150	2/3	36	9.6	8.2	9.9	8.1**	5
Sagebrush Flat	11H15	6300	2/3	21	4.7	5.3	3.8	4.4**	5
Ben Lomond (lower)	11H9	6000	2/4	47	14.3	9.2	8.5	- -	2
Mt. Ogden	11H10	8600	2/5	68	21.0	13.2	30.0	19.4**	6
Snow Basin	11H11	6500	2/5	49	11.9	8.8	11.1	- -	4

x - Adjacent Drainage.
* - Less than 15 years in 1938-52 period. Average for 15 years nearest base period.
** - Average for period of record.
" - Estimated

UTAH SNOW SURVEYS - ABOUT FEBRUARY 1, 1958

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record: Water Content (In.) 1957	1956	1938-52 Av.	Prior Yrs. of Record
WEBER RIVER									
Trial Lake x	10J8	9800	1/29	65	17.6	18.0	- -	16.4**	5
Smith & Morehouse	11J4	7600	1/28	38	8.5	10.6	9.8	- -	4
Beaver Creek R. S.	11J24	7500	1/30	34	8.4	7.5	6.5	6.2**	7
Chalk Creek #2	11J2	8200	1/28	33	8.4	10.7	12.9	- -	4
Chalk Creek #3	11J3	7500	1/28	22	5.5	6.4	5.3	- -	4
Silver Lake x	11J16	8725	1/29	60	16.0	14.7	29.0	15.4	23
Parley's Canyon Smt.	11J15	7500	1/31	54	12.9	13.2	12.9	11.4**	7
Lamb's Canyon x	11J14	6600	1/31	55	13.8	11.2	11.6	9.6**	12
PROVO RIVER and UTAH LAKE									
Trial Lake	10J8	9800	1/29	65	17.6	18.0	- -	16.4**	5
Soapstone R. S.	11J25	7800	1/29	44	10.6	10.0	11.3	7.1**	7
Daniels-Strbry. Smt.	11J23	8000	1/31	41	9.8	11.2	13.4	9.6	27
Strawberry Divide	11J8	8000	1/27	45	11.3	16.5	18.3	13.8	22
East Portal	11J7	7560	1/27	30	6.8	8.1	9.0	8.5	22
Clear Creek Ridge #2	11K22	8000	2/2	38	10.0	11.3	8.9	- -	2
Clear Creek Ridge #3	11K23	6600	2/2	27	6.7	6.0	6.4	- -	2
Payson R. S.	11K1	8050	1/27	41	10.2	13.2	11.4	- -	4
Rock Bridge	11K2	6750	1/27	36	8.4	8.8	7.2	- -	4
Timpanogas Divide	11J21	8200	2/3	48	15.8	15.1	24.3	17.4	23
Camp Altamont	11J20	7300	2/3	38	10.6	9.6	11.5	12.2	23
South Fork R. S.	11J19	6100	2/3	23	7.3	3.7	2.3	6.3*	20
Timpanogas Cave Camp	11J18	5500	2/3	8	2.4	2.0	0.0	3.8*	15
JORDAN RIVER and Great Salt Lake									
Silver Lake	11J16	8725	1/29	60	16.0	14.7	29.0	15.4	23
Mill D. South Fork	11J10	7400	1/29	56	15.9	12.2	14.8	12.1**	5
Lamb's Canyon Summit	11J14	6600	1/31	55	13.8	11.2	11.6	9.6**	12
Parley's Canyon Smt.x	11J15	7500	1/31	54	12.9	13.2	12.9	11.4**	7
Farmington Canyon (upper)	11J11	8000	2/1	64	18.7	16.9	21.0	18.8**	5
Farmington Canyon (lower)	11J12	6950	2/1	54	14.1	12.7	13.7	15.8**	7
Middle Canyon	12J3	7000	1/29	33	9.0	8.2	7.6	- -	4

x - Adjacent Drainage/

* - Less than 15 years in 1938-52 period. Average for 15 years nearest base period.

** - Average for period of record.

UTAH SNOW SURVEYS - ABOUT FEBRUARY 1, 1958

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1957	1956	1938-52 Av.	Prior Yrs. of Record
SEVIER RIVER above Richfield									
Midway Valley	12M2	9400	1/28	59	17.0	13.3	16.5	- -	3
Duck Creek R. S.	12M4	8560	2/3	34	8.6	12.4	11.4	10.2**	14
Harris Flat R. S.	12M5	7700	2/3	19	4.8	6.9	2.7	6.8**	12
Long Valley Jnct. x	12M6	7500	2/3	4	0.8	4.3	1.0	5.1**	6
Castle Valley	12M13	9700	2/3	37	8.9	6.9	- -	- -	1
Panguitch Lake	12M7	8200	2/3	14	3.3	2.2	1.8	3.7**	5
Bryce Canyon	12M8	8000	1/31	17	3.7	2.8	1.2	3.8**	9
Widtsoe-Escalante Smt.	11M1	9500	2/3	22	6.0	3.2	5.6	5.5*	20
Widtsoe-Escalante #2	11M2	9500	2/3	31	8.3	4.4	6.4	5.8**	7
Big Flat x	12L7	10000	1/25	53	15.4	10.7	17.0	12.0**	7
Kimberly Mine (upper)	12L6	8900	2/1	40	10.2	9.5	- -	8.6**	8
SEVIER RIVER below RICHFIELD including SAN PITCH RIVER									
Farnsworth Lake	11L1	9900	2/3	49	13.2	12.6	- -	- -	2
Gooseberry R. S.	11L2	8400	1/28	37	8.2	8.2	- -	- -	2
H untington-Horseshoe	11K5	9800	2/4	59	19.3	16.6	18.5	17.8**	7
Gooseberry Reservoir	11K4	8700	2/4	42	12.3	13.2	16.8	13.8**	7
G.B.R.C. Meadows	11K10	10000	1/30	59	16.1	16.6	19.1	17.2**	7
G.B.R.C. Headqrs.	11K11	8700	1/30	38	9.2	10.1	11.5	9.6*	19
Middle Fork	11K34	9600	Delayed Data			14.6	16.1	- -	2
Thistle Flat	11K35	8500	Delayed Data			11.5	11.2	- -	2
Mt. Baldy R. S.	11K12	9500	2/5	60	16.2	14.9	- -	- -	1
Beaver Dams	11K13	8000	2/5	36	8.3	8.4	- -	- -	1
BEAVER RIVER									
Big Flat	12L7	10000	1/25	53	15.4	10.7	17.0	12.0**	7
Otter Lake	12L8	9300	1/25	42	10.6	9.4	14.4	9.9**	7
Merchant's Valley	12L9	8200	1/25	29	6.9	6.4	9.7	6.8**	8
COAL CREEK									
Midway Valley x	12M2	9400	1/28	59	17.0	13.3	16.5	- -	3
Webster Flat	12M3	9200	1/28	43	10.7	10.0	11.5	12.1**	6
Urie Flat	12M10	8450	1/28	22	5.5	5.3	3.6	- -	3

x - Adjacent Drainage.

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** - Average for period of record.

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1957	1956	1938-52 Av.	Prior Yrs. of Record
COLORADO RIVER DRAINAGE									
DUCHESNE RIVER									
Trial Lake x	10J8	9800	1/29	65	17.6	18.0	- -	16.4**	5
Soapstone R. S. x	11J25	7800	1/29	44	10.6	10.0	11.3	7.1**	7
Daniels-Strbry. Smt. x	11J23	8000	1/31	41	9.8	11.2	13.4	9.6	27
Strawberry Divide x	11J8	8000	1/27	45	11.3	16.5	18.3	13.8	22
East Portal	11J7	7560	1/27	30	6.8	8.1	9.0	8.5	22
Indian Canyon	10K1	9100	1/29	28	7.2	6.6	11.0	6.9*	22
Lakefork Mountain	10J10	10500	2/1	34	8.5	6.6	13.5	8.7**	7
Lakefork Mountain #2	10J11	8900	2/1	24	5.7	4.2	10.5	6.2**	5
Lakefork Mountain #3	10J12	8100	2/1	19	3.6	3.6	6.7	4.8**	5
Paradise Park	9J3	10500	1/31	33	8.4	7.4	14.8	8.6**	5
Julius Park	9J6	9800	1/31	35	8.8	new	course		0
Mosby Mtn. (lower)	9J5	9500	1/31	29	6.8	5.9	11.3	7.2**	5
PRICE RIVER									
Huntington-Horseshoe	11K5	9800	2/4	59	19.3	16.6	18.5	17.8**	7
Gooseberry Reservoir	11K4	8700	2/4	42	12.3	13.2	16.8	13.8**	7
Mud Creek #2	11K33	8300	1/31	39	8.8	11.4	11.2	- -	2
Staley Ranch	11K7	7600	1/31	26	5.6	6.4	5.2	5.5*	16
Dry Valley Divide	11K8	7800	1/31	33	7.6	8.0	10.3	7.3*	16
White River #3	11K25	7400	1/31	31	7.2	7.0	7.2	- -	2
Indian Canyon x	10K1	9100	1/29	28	7.2	6.6	11.0	6.9*	22
SAN RAFAEL RIVER									
Huntington-Horseshoe	11K5	9800	2/4	59	19.3	16.6	18.5	17.8**	7
Gooseberry Reservoir x	11K4	8700	2/4	42	12.3	13.2	16.8	13.8**	7
Red Pine Ridge	11K28	9400	1/28	47	11.6	13.8	13.4	- -	2
Joe's Valley	11K29	8800	1/28	30	5.6	6.8	8.5	- -	2
Wilberg Ranch	11K30	7800	1/28	16	3.1	2.7	3.2	- -	2
Buck Flat	11K31	9400	1/29	43	11.4	10.6	11.9	- -	2
Rush Pond	11K38	9800	1/29	42	10.2	9.6	12.6	- -	2
Wrigley Creek	11K32	9000	1/29	35	8.2	6.8	8.7	- -	2
MUDDY RIVER									
Mt. Baldy R. S. x	11K12	9500	2/5	60	16.2	14.9	- -	- -	1

x - Adjacent Drainage.
* - Less than 15 years in 1938-52 period. Average for 15 years nearest base period.
** - Average for period of record.

UTAH SNOW SURVEYS - ABOUT FEBRUARY 1, 1958

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1957	1956	1938-52 Av.	Prior Yrs. of Record
FREMONT RIVER									
Farnsworth Lake x	11I1	9900	2/3	49	13.2	12.6	--	--	2
ESCALANTE RIVER									
Widtsoe-Escalante Smt.	11M1	9500	2/3	22	6.0	3.2	5.6	5.5*	20
Widtsoe-Escalante #2	11M2	9500	2/3	31	8.3	4.4	6.4	5.8**	7
VIRGIN RIVER									
Long Valley Jnct.	12M6	7500	2/3	4	0.8	4.3	1.0	5.1**	6
Harris Flat R. S.	12M5	7700	2/3	19	4.8	6.9	2.7	6.8**	12
Duck Creek R. S.	12M4	8560	2/3	34	8.6	12.4	11.4	10.2**	14
Midway Valley x	12M2	9400	1/28	59	17.0	13.3	16.5	--	3
Webster Flat	12M3	9200	1/28	43	10.7	10.0	11.5	12.1**	6

x - Adjacent Drainage.

* - Less than 15 years in 1938-52 period. Average for 15 years nearest base period.

** - Average for period of record.

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
- Weather Bureau

U. S. Department of the Interior
- Geological Survey
- National Park Service

STATE OF UTAH

Utah Agricultural Experiment Station

Utah State Engineer
- Little Bear River Commissioner
- Price River Commissioner
- Provo River Commissioner
- Sevier River Commissioner
- Spanish Fork River Commissioner
- Weber River Commissioner

Utah Water & Power Board

MUNICIPALITIES OR QUASI-MUNICIPALITIES

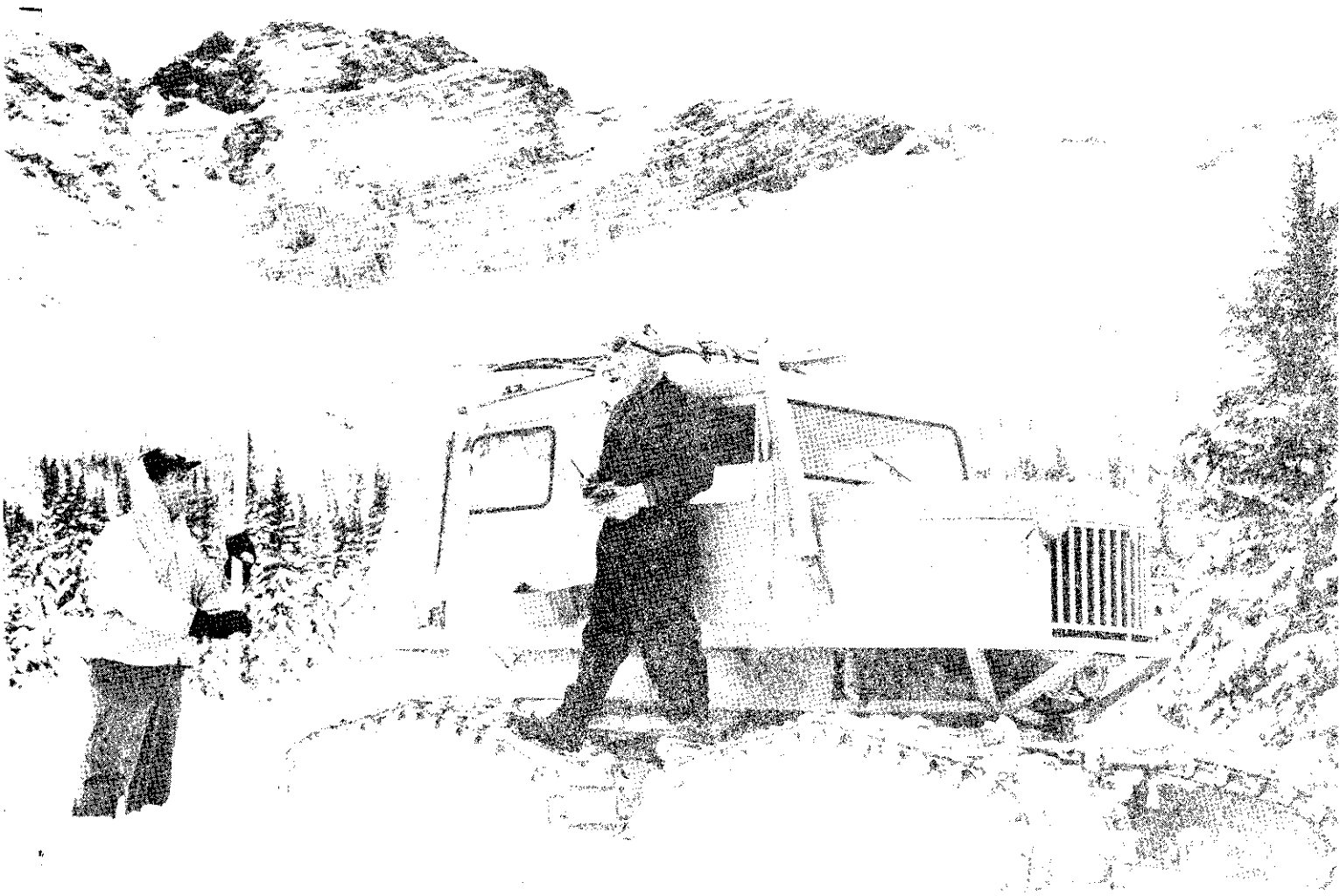
Salt Lake City Corporation

ORGANIZED PUBLIC AGENCIES

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

PRIVATE AGENCIES

Kaiser Steel Corporation



FEDERAL - STATE - PRIVATE COOPERATIVE

SNOW SURVEY and WATER SUPPLY FORECASTS for UTAH

UNITED STATES DEPARTMENT of AGRICULTURE···SOIL CONSERVATION SERVICE,

and

STATE ENGINEER of UTAH and UTAH AGRICULTURAL EXPERIMENT STATION

in cooperation with

U. S. Forest Service, U. S. National Park Service,
U. S. Geological Survey and
State and Local Irrigation Organizations

AS OF

MAR. 1, 1958

FEDERAL-STATE COOPERATIVE
SNOW SURVEYS and WATER SUPPLY FORECASTS
for
U T A H

MARCH 1, 1958

Report Prepared

by

W. E. Anderson - Civil Engineer
U.S.D.A. Field Party
109 West 2nd South
Salt Lake City, Utah

Gregory Pearson, Supervisor of Utah Cooperative Snow Survey, SCS, who continues to be responsible for preparation of this report, was seriously injured in an automobile accident on January 17. His recovery is assured, but for the next several issues of this report his activity must necessarily be reduced.

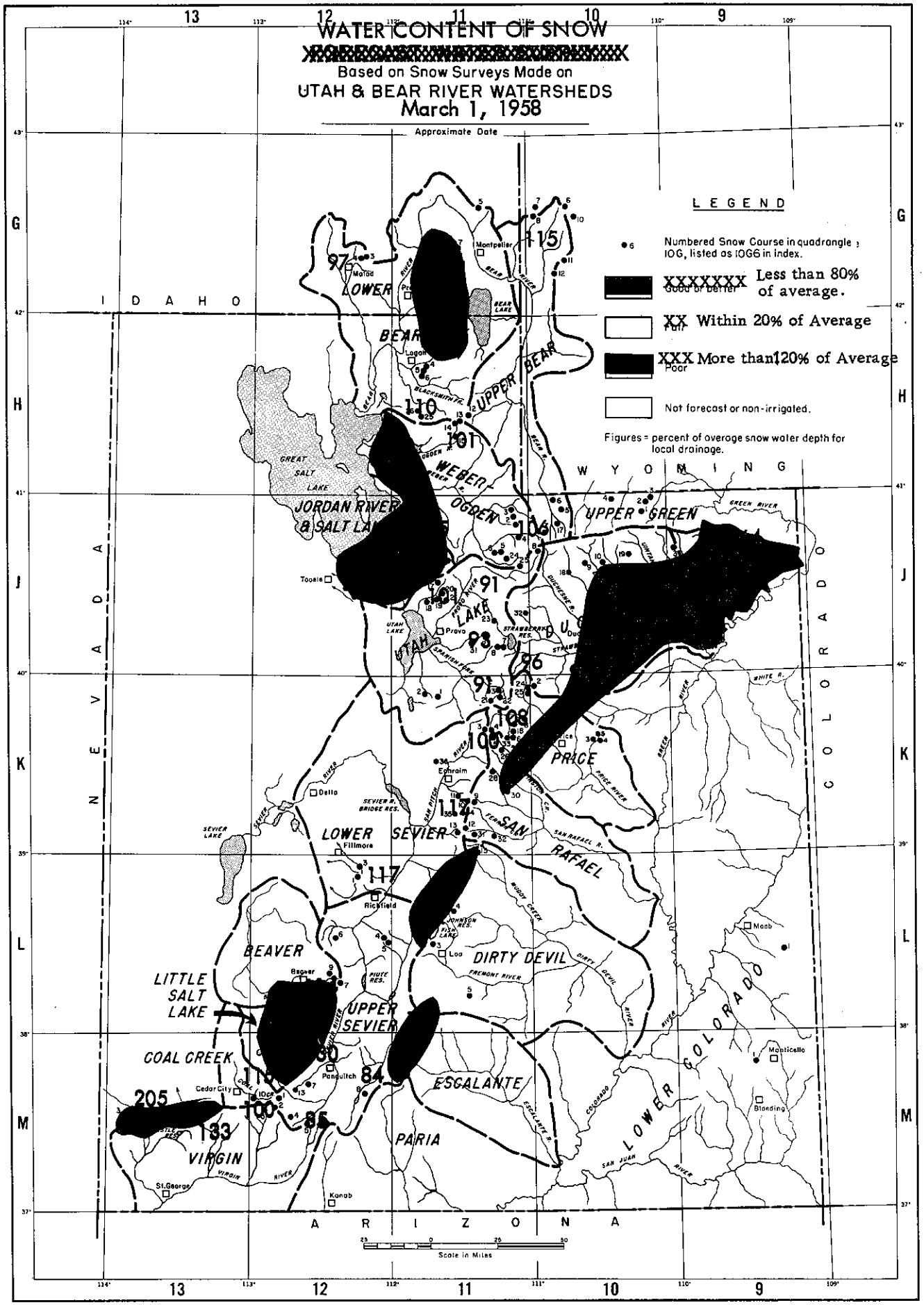
Issued

by

J.A. LIBBY
State Conservationist
Soil Conservation Service
Salt Lake City 1, Utah

Wayne D. Criddle
State Engineer
State of Utah
Salt Lake City, Utah

Dr. D. W. Thorne, Dir.
Utah Agricultural Ext. Sta.
Logan, Utah
(Mimeograph Series #440)



U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE

M-926

SNOW COVER & WATER SUPPLY OUTLOOK

for UTAH

MARCH 1, 1958

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* Water content of the mountain snow pack ranges from*
* near average to above average. Storms in late Feb.*
* resulted in substantial increases and the present  *
* water supply outlook is for near average runoff for*
* most drainage areas. Parts of the Uinta Basin are  *
* still below average in snow cover and prospective  *
* runoff there is deficient.                         *
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GENERAL

Despite the unseasonable weather of mid-February, increases in the snow pack water content were near average for the month. March 1 surveys indicate that snow cover on all areas along and west of the Wasatch Divide now have a water content that is at or above normal for this date.

Apparently the storms of late February lost most of their moisture while crossing the divide. Snow courses on the divide summit generally range from average to as much as 20% above average for this date, while those courses at lower elevations east of the divide range downward to about 60% of average in some cases. Particularly affected are the lower elevations and the eastern portion of Uinta Basin.

Soil moisture conditions are good to very good over much of the State's drainage areas. The percentage of snow stored moisture that will appear as runoff therefore should be somewhat higher than for recent years.

PROSPECTIVE RUNOFF

Present conditions indicate that streamflow during the irrigation season should be within 20% of the 1938-52 average over most of the state. In the Uinta Basin and limited areas on the east side of the Colorado River Divide, streamflow will be less than 80% of average. There are few areas over the state where more than 120% of average runoff is expected.

Runoff prospects in the southwestern part of the state, especially the Sevier River Basin, are much better than for the last few years. While weather conditions during the rest of the winter can have a great effect on the amount of runoff finally occurring, present outlook on the Sevier is for approximately 115% of average. The Virgin River is expected to be below but not less than 80% of average.

RESERVOIR STORAGE

Reservoir storage in 9 selected reservoirs not including Bear and Utah Lakes, is 145% of the amount in storage this same date last year. It is 50% of capacity, and 108% of the average amount in storage on this date.

In the Weber Basin, excluding Wanship Dam, present reservoir storage is approximately 122% of last year, 140% of average, and 32% of capacity. Including Wanship Dam, present storage is 190% of last year, 216% of average, and 39% of capacity.

Reservoir Storage above Utah County is 115% of last year, 148% of average, and 60% of capacity. In the Sevier Basin it is 240% of last year but still only 75% of average on this date and 49% of capacity.

UTAH STREAMFLOW FORECASTS - MARCH 1, 1958

The following summarized runoff forecasts are based principally on mountain snow cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts.

BASIN, STREAM and STATION	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1958	% 15-Yr. Av.	Forecast Period	Measured Runoff 1957	1956	1955	15-Yr. Av. 1938-
			GREAT BASIN				
BEAR RIVER SYSTEM							
Bear River near Evanston, Wyo.	127	89	Apr-Sept.	- -	124	74	142
Bear River near Randolph, Utah	87	75	Apr-Sept.	- -	94	26.4	116(1)
Smith's Fork near Border, Wyoming	94	83	Apr-Sept.	- -	152	78	114(2)
B ear River at Harer, Idaho	253	90	Apr-Sept.	357	311	114	281
Little Bear River nr. Paradise, Utah	40	91	Apr-Sept.	45	38	40	44
Logan River near Logan, Utah(3)	140	105	Apr-Sept.	144	155	99	133
Blacksmith Fork near Hyrum, Utah (4)	63	105	Apr-Sept.	68	73	46	60
WEBER-OGDEN RIVERS							
Weber River near Oakley, Utah	123	96	Apr-Sept.	153	145	98	128
Weber River near Coalville, Utah (5)	136	99	Apr-Sept.	119	136	97	138
Chalk Creek at Coalville, Utah	34	81	Apr-Sept.	53	35	18.6	42

(1) Average runoff for 12 years, 1944-1955.
(2) Average runoff for 13 years, 1943-1955.
(3) Includes U.P. & L. Co. tailrace and Logan, Hyde Park & Smithfield Canal
(4) Above Utah Power and Light Company's dam.
(5) Includes diversion by Weber-Provo canal and change in storage Wanship Reservoir.

UTAH STREAMFLOW FORECASTS - MARCH 1, 1958

BASIN, STREAM and STATION	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1958	% 15-Yr. Av.	Forecast Period	Measured Runoff 1957	1956	1955	15-Yr. Av. 1938-52
WEBER-OGDEN RIVERS - Continued							
East Canyon Creek near Morgan, Utah (6)	32	110	Apr-Sept.	28	16.9	14.1	29.2
South Fork Ogden River nr Huntsville, Utah	53	82	Apr-Sept.	77	63	48	65
PROVO RIVER & UTAH LAKE							
Spanish Fork at Thistle, Utah	36	80	Apr-Sept.	54	- -	30	45
Hobble Creek near Springville, Utah	20	80	Apr-Sept.	- -	- -	10.3	25(7)
Provo River at Vivian Park, Utah (8)	156	94	Apr-Sept.	182	133	109	166
American Fork River nr American Fork, Utah	32	80	Apr-Sept.	- -	32	26.4	36
JORDAN RIVER & SALT LAKE							
Little Cottonwood Creek nr Salt Lake City, Utah	41	103	Apr-Sept.	38	37	34	40
Big Cottonwood near Salt Lake City	40	100	Apr-Sept.	50	35	34	40
Parley's Creek near Salt La ke City, Utah	20	132	Apr-Sept.	16	8.4	7.5	15.2
SEVIER RIVER							
Sevier River at Hatch, Utah	69	119	Apr-Sept.	48	25.8	23.8	58(9)
Sevier River near Kingston, Utah	53	115	Apr-Sept.	18.1	5.3	7.5	46

(6) Observed flow plus change in storage in East Canyon reservoir.
(7) For ten years 1946-1955
(8) Observed flow plus flow at South Fork Provo River at Vivian Park, plus change in storage in Deer Creek reservoir, minus diversion by Weber-Provo Canal, minus diversion thru Duchesne tunnel, plus diversion thru Salt Lake Aqueduct.
(9) Average runoff for 15 years, 1940-1954.

UTAH STREAMFLOW FORECASTS - MARCH 1, 1958

	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1958	% 15-Yr. Av.	Forecast Period	Measured Runoff 1957	1956	1955	15-Yr. Av. 1938-52
East Fork Sevier River nr Kingston, Utah (10)	29	101	Apr-Sept.	28.8	7.9	8.6	28.8
Sevier River below Piute Dam (11)	78	105	Apr-Sept.	33.2	13.1	16.1	75
BEAVER RIVER							
Beaver River near Beaver, Utah	45	132	Apr-Sept.	44.6	20.2	16.4	34
COAL CREEK							
Coal Creek near Cedar City, Utah	19	93	Apr-Sept.	--	--	10.1	20.4
COLORADO RIVER BASIN							
UPPER GREEN RIVER							
Ashley Creek near Vernal, Utah	48	74	Apr-Sept.	--	49	40	65
DUCHESNE RIVER							
Duchesne River near Tabiona, Utah (12)	109	89	Apr-Sept.	108	121	89	122
Rock Creek near Mountain Home, Utah	81	74	Apr-Sept.	124	111	80	109
Strawberry River at Duchesne, Utah	66	80	Apr-Sept.	79	59	49	82
Lakefork River below Moon Lake, Utah (13)	54	70	Apr-Sept.	--	82	58	77(1
Uinta River near Neola, Utah	77	69	Apr-Sept.	--	90	71	111
Whiterocks River near Whiterocks, Utah	50	69	Apr-Sept.	--	54	47	72

(10) Observed flow plus change in storage in Otter Creek Reservoir
(11) Observed flow plus change in storage in Otter Creek and Piute Reservoirs.
(12) Observed flow plus diversion through Duchesne tunnel.
(13) Observed flow plus change in storage in Moon Lake reservoir. Average runoff for 14 years, 1942-1955.

UTAH STREAMFLOW FORECASTS - MARCH 1, 1958

BASIN, STREAM and STATION	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1958	% 15-Yr. Av.	Forecast Period	Measured Runoff 1957	1956	1955	15-Yr. Av. 1938-52
PRICE RIVER							
Price River near Scofield, Utah (14)	39	91	Apr-Sept.	--	28.7	26.6	43
Price River near Heiner, Utah (14)	61	79	Apr-Sept.	--	48	45	77
SAN RAFAEL RIVER							
Huntington Creek near Huntington, Utah	54	87	Apr-Sept.	--	44	36	62
Cottonwood Creek near Orangeville, Utah	64	100	Apr-Sept.	--	41	35	64
Ferron Creek near Ferron, Utah	42	100	Apr-Sept.	--	31	25.6	42(15)
VIRGIN RIVER							
Virgin River at Virgin, Utah	48	80	Apr-June	--	--	23.6	60

(14) Observed flow plus change in storage in Scofield reservoir.
(15) Average runoff for 8 years, 1948-1955.

STATUS OF UTAH RESERVOIR STORAGE - MARCH 1, 1958 (1)

BASIN and/or STREAM	RESERVOIR	USABLE CAPACITY 1000s AF	USABLE STORAGE - 1000 ACRE FEET 1958	1957	1956	15-Yr. Av. 1938-52
		GREAT BASIN				
Bear River	Bear Lake	1421.0	956.9	850.5	694.1	714.3
Little Bear	Hyrum	15.3	9.9	11.4	10.6	10.5 (2)
Ogden	Pineview	110.0	12.3	6.3	18.2	6.8
Weber	Wanship	59.1	38.4	- -	- -	- -
	Echo	73.9	40.0	24.4	31.3	25.0
	East Canyon	28.7	15.5	14.6	11.6	16.8
Provo	Deer Creek	144.7	99.1	82.4	83.9	73.9 (3)
Spanish Fork	Strawberry	270.0	156.4	138.9	149.9	99.0
Utah Lake	Utah Lake	1149.0 (4)	604.8	433.1	535.4	498.2
Sevier River	Otter Creek	52.5	28.2	13.6	15.3	35.3
	Piute	74.0	45.0	20.1	28.8	51.5
	Sevier Bridge	236.0	103.6	40.1	50.6	152.6
Beaver River	Rocky Ford	23.3	- -	7.4	8.2	16.6
		COLORADO RIVER DRAINAGE				
Lake Fork	Moon Lake	35.8	25.4	8.5	9.6	16.6
Price River	Scofield	65.8	- -	4.6	6.9	14.2 (5)

(1) All data contained in this table supplied by U. S. Geological Survey, except Wanship Reservoir & Moon Lake by U. S. Bureau of Reclamation.
(2) Average for 1939-53
(3) Average for 1942-55
(4) Active capacity taken at 3.1 feet above compromise point.
(5) Average for 1943-52

Summary of Snow Survey Data by Tributary Watersheds as of March 1, 1958

TRIBUTARY BASINS	No. of Courses Averaged	Years of Record	1958 Snow Water Express as percent of 1957	1956	& 1938-52 Av.
GREAT BASIN					
Smith's Fork Bear River(Wyo.)	4	3-22	102	85	117*
Strawberry-Mink Creeks(Idaho)	3	3	142	101	127*
Cub River (Idaho)	1	7	110	79	110*
Logan River	4	4-11	121	94	116*
Blacksmith Fork, Little Bear	5	6-11	115	93	103*
Malad River (Idaho)	2	3	170	82	96*
Ogden River (So. Fork)	3	6-10	106	81	98*
Weber River above Echo Dam	9	5-23	109	88	104*
East Canyon Creek	3	10-23	124	100	116*
Farmington Area	2	7	158	118	123*
Salt Lake Area	4	5-23	129	105	123*
Tooele Area	1	4	147	143	134*
American Fork River	2	23	108	92	89*
Provo River above Vivian Park	7	7-23	118	94	114*
Strawberry Reservoir Walley	3	22-27	82	80	86*
H obble Creek	1	5	87	101	100*
Payson Creek	1	10	97	97	93*
Sevier River above Panguitch	5	4-15	167	136	105*
East Fork Sevier River	4	3-21	209	167	131*
Clear Creek above Sevier	1	13	129	126	116*
Salina Creek	2	5-7	129	129	122*
Mt. Pleasant Area	2	8-13	113	113	100*
Ephraim Area	2	8-20	116	107	109*
Mayfield Area	2	6	133	122	121*
Chalk Creek - Fillmore	2	4	139	129	127*
Beaver River	3	9-11	123	99	113*
Coal Creek - Cedar City	3	4-12	123	102	107*
COLORADO RIVER BASIN					
Duchesne River above Tabiona	3	11-27	96	77	101*
Strawberry River	3	20-27	86	76	85*
Lakefork River	2	5-7	102	52	76*
Whiterocks - Uintah Rivers	2	7-8	111	63	80*
Ashley Creek	4	7-9	100	61	72*
Price River	5	8-20	105	95	103*
San Rafael	3	6-13	125	117	111*
Escalante River	2	8-21	201	142	139*
Virgin River	4	8-15	108	117	95*
Southeastern Utah(near Moab)	1	6	107	121	105*
Southeastern Utah(near Monticello	1	2	103	119	- -*

* Several of the snow courses used in calculating these averages have only been measured for a few years on March 1, but have up to 33 years of record on April 1. The percent of average March 1 water content on these courses was calculated based on the percent of the April 1st water content of the snow that usually accumulates by March 1 on courses having such records and that are similarly located as to elevation and exposure.

UTAH SNOW SURVEYS - ABOUT MARCH 1, 1958

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1957	1956	1938-52 Av.	Prio Yrs. Reco
GREAT BASIN DRAINAGE									
BEAR RIVER above Harer, Idaho									
Trial Lake x	10J8	9800	3/3	72	23.7	23.6	35.3	24.0**	12
Monte Cristo R. S.	11H12	8960	3/5	71	24.7	20.9	- -	24.4**	8
Poison Meadows x	10G6	8500	Delayed Data			25.9	40.3	25.6**	10
Piney LaBarge x	10G10	8820	"		"	16.0	24.4	- -	3
Big Park	10G11	8700	"		"	15.6	25.1	18.0**	7
Kelly R. S.	10G12	8200	"		"	14.2	22.3	- -	3
Salt River Summit x	10G8	7900	2/28	51	16.1	14.6	18.2	13.8**	10
CCC Camp x	10G7	7500	3/3	35	10.7	11.4	13.2	9.8	22
BEAR RIVER below Harer, Idaho									
Garden City Summit	11H7	7900	2/25	59	18.6	16.2	21.0	18.2*	11
Strawberry Mink Divide	11G10	6800	2/25	66	23.5	17.8	23.5	- -	3
Strawberry Creek	11G9	5800	2/25	37	12.4	8.6	13.5	- -	3
Christensen Ranch	11G11	5600	2/24	30	9.9	6.6	8.9	- -	3
Willow Flat	11G4	6100	2/24	46	16.8	11.7	17.6	- -	3
Cub River R. S.	11G12	5400	2/24	32	11.0	4.7	8.9	- -	3
Franklin Basin R.S.	11G8	8200	2/26	77	26.7	24.0	33.7	24.2**	7
Klondike Narrows	11H1	7400	2/26	66	21.5	17.2	23.4	- -	4
Tony Grove R. S.	11H3	6250	2/25	37	12.5	9.2	10.6	10.3**	9
Monte Cristo R. S.	11H12	8960	3/3	71	24.7	20.9	- -	24.4**	8
Dry Bread Pond x	11H13	8230	3/5	51	16.7	15.7	21.6	18.1**	10
Beaver Crk-Skunk Crk	11H14	7150	3/5	36	11.5	11.5	13.4	11.6**	6
Little Bear(upper)	11H25	6850	2/28	38	10.8	9.7	11.8	- -	2
Little Bear(lower)	11H26	6100	2/28	33	9.4	6.2	8.5	- -	2
Oxford Mountain	12G3	6800	2/26	28	9.9	6.6	9.6	- -	3
Dry Creek Flat	12G4	6350	2/26	17	5.1	3.2	8.3	- -	3
OGDEN RIVER									
Monte Cristo R. S. x	11H12	8960	3/5	71	24.7	20.9	- -	24.4**	8
Dry Bread Pond	11H 13	8230	3/5	51	16.7	15.7	21.6	18.1**	10
Beaver Crk-Skunk Crk	11H14	7150	3/5	36	11.5	11.5	13.4	11.6**	6
Sagebrush Flat	11H15	6300	3/5	13	4.5	2.8	5.5	4.1**	5
Ben Lomond(lower)	11H9	6000	3/6	50	18.3	9.4	11.6	- -	2
Mt. Ogden	11H10	8600	3/1	90	31.4	18.4	32.7	25.2**	8
Snow Basin	11H11	6500	3/1	48	14.5	9.2	14.3	- -	4

x - Adjacent Drainage.

* - Less than 15 years in 1938-52 period. Average for 15 years nearest base period.

** - Average for period of record.

UTAH SNOW SURVEYS - ABOUT MARCH 1, 1958

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1957	1956	1938-52 Av.	Prior Yrs. of Record
WEBER RIVER									
Trial Lake x	10J8	9800	3/3	72	23.7	23.6	35.3	24.0**	12
Smith & Morehouse	11J4	7600	3/6	39	12.8	12.1	12.6	12.2**	7
Redden Mine (upper)	11J5	9000	3/6	53	18.8	15.6	23.5	17.5**	7
Redden Mine (lower)	11J6	8500	3/6	51	17.6	15.0	21.2	16.3**	7
Beaver Creek R. S.	11J24	7500	3/3	32	9.9	9.2	9.0	8.6**	9
Chalk Creek #1	11J1	9100	3/6	58	18.6	18.1	- -	20.4**	5
Chalk Creek #2	11J2	8200	3/6	37	10.4	13.0	14.8	13.2**	7
Chalk Creek #3	11J3	7500	3/6	22	6.9	8.1	7.3	7.2**	6
Silver Lake	11J16	8725	3/1	82	22.3	20.7	28.1	20.7	23
Parley's Canyon Smt.	11J15	7500	2/28	68	18.4	15.4	16.6	16.4**	10
Lamb's Canyon x	11J14	6600	2/28	61	17.1	11.8	15.6	13.2*	17
PROVO RIVER & UTAH LAKE									
Trial Lake	10J8	9800	3/3	72	23.7	23.6	35.3	24.0**	12
Soapstone R. S.	11J25	7800	3/3	44	13.5	12.8	14.8	12.0**	11
Daniels-Strawby. Smt.	11J23	8000	2/28	50	12.2	14.6	17.0	13.6	27
Strawberry Divide	11J8	8000	2/26	58	16.4	19.9	21.6	18.0*	22
East Portal	11J7	7560	2/26	36	8.8	11.3	9.7	11.6	23
Cobble Creek Summit	11J22	7300	2/28	42	12.2	14.0	12.1	12.2**	5
Packard Canyon	11J31	6400	2/28	37	10.3	10.4	9.7	- -	3
Clear Creek Ridge #1	11K21	9200	2/24	44	14.1	16.4	17.1	- -	2
Clear Creek Ridge #2	11K22	8000	2/24	37	10.8	14.3	12.5	- -	3
Clear Creek Ridge #3	11K23	6600	2/24	23	7.6	7.0	7.4	- -	3
Payson R. S.	11K1	8050	2/24	44	14.8	15.2	15.2	15.9**	10
Rock Bridge	11K2	6750	2/24	35	11.7	7.7	9.6	- -	4
Dutchman R. S.	11J17	7500	Delayed Data			16.8	18.7	- -	3
Timpanogas Divide	11J21	8200	2/27	71	20.6	21.6	27.0	23.2	23
Camp Altamont	11J20	7300	2/27	54	14.5	12.1	13.4	16.6	23
South Fork R. S.	11J19	6100	2/27	42	10.3	0.0	3.6	7.7*	20
Timpanogas Cave Camp	11J18	5500	2/27	16	3.6	0.0	2.1	4.2*	16
JORDAN RIVER & GREAT SALT LAKE									
Silver Lake	11J16	8720	3/1	82	22.3	20.7	28.1	20.7	23
Mill D. South Fork	11J10	7400	3/1	79	23.9	16.4	20.1	16.8**	5
Lamb's Canyon	11J14	6600	2/28	61	17.1	11.8	15.6	13.2*	17
Parley's Canyon Smt.	11J15	7500	2/28	68	18.4	15.4	16.6	16.4**	10
Farmington Canyon (upper)	11J11	8000	3/1	90	27.9	17.8	26.4	22.8**	7
Farmington Canyon (lower)	11J12	6950	3/1	70	23.8	14.8	18.2	19.1**	7
Middle Canyon	12J3	7000	3/3	44	13.7	9.3	9.6	- -	4

x - Adjacent Drainage.
* - Less than 15 years in 1938-52 period. Average for 15 years nearest base period.
** - Average for period of record.

UTAH SNOW SURVEYS - ABOUT MARCH 1, 1958

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1957	1956	1938-52 Av.	Prior Yrs. of Record
SEVIER RIVER above RICHFIELD									
Cedar Breaks	12M1	10390	2/25	64	20.8	14.2	20.6	18.7**	12
Midway Valley	12M2	9400	2/25	69	21.4	17.0	20.6	- -	4
Duck Creek R. S.	12M4	8560	2/25	44	12.0	14.6	13.2	13.8**	14
Harris Flat R. S.	12M5	7700	2/25	29	7.8	7.6	4.5	9.6*	15
Long Valley Junction	x12M6	7500	2/25	7	0.9	T	T	4.2**	9
Castle Valley	12M13	9700	2/27	52	13.7	8.0	- -	- -	1
Panguitch Lake	12M7	8200	2/27	18	5.3	1.4	2.5	4.0**	6
Bryce Canyon	12M8	8000	2/26	18	4.5	2.4	1.6	5.4**	11
Widtsoe-Escalante Smt.	11M1	9500	2/28	28	8.9	4.2	7.0	7.7*	21
Widtsoe-Escalante #2	11M2	9500	2/28	38	11.1	5.8	7.1	6.8**	8
Fish Lake	11L3	8700	3/6	35	9.6	3.9	6.4	- -	3
Box Creek	12L4	9800	3/4	52	13.5	8.8	11.9	- -	2
Squaw Springs	12L5	9300	3/4	31	8.2	6.1	6.4	- -	2
Big Flat	12L7	10000	2/23	62	20.4	14.9	18.2	15.6**	9
Kimberly Mine (upper)	12L6	8900	3/3	50	14.2	11.0	11.3	12.2**	13
SEVIER RIVER below RICHFIELD including SAN PITCH RIVER									
Farnsworth Lake	11L1	9900	2/25	58	17.6	14.2	14.4	15.1**	5
Gooseberry R. S.	11L2	8400	2/25	40	11.8	8.7	8.6	9.2**	7
Huntington-Horseshoe	11K5	9800	2/24	76	26.7	20.5	19.1	21.8**	8
Gooseberry Reservoir	11K4	8700	2/24	51	16.4	17.0	18.7	18.6**	13
G.B.R.C. Meadows	11K10	10000	2/27	88	24.7	20.5	22.4	21.2**	8
G.B.R.C. Headqrtrs.	11K11	8700	3/3	55	14.8	13.1	14.0	14.3*	20
Middle Fork	11K34	9600	3/4	81	22.4	22.2	19.8	- -	2
Thistle Flat	11K35	8500	3/4	51	15.2	16.2	14.3	- -	2
Mt. Baldy R. S.	11K12	9500	3/3	82	24.7	20.0	21.7	20.6**	6
Beaver Dams	11K13	8000	3/3	46	13.7	9.5	11.2	11.2**	6
Rees' Flat	11K36	7300	2/22	41	10.8	10.0	- -	- -	1
Pine Creek	12L1	8700	2/19	48	14.1	10.0	11.1	- -	4
Bear Canyon	12L3	7200	2/20	33	9.4	6.8	7.2	- -	4
BEAVER RIVER									
Big Flat	12L7	10000	2/23	62	20.4	14.9	18.2	15.6**	9
Otter Lake	12L8	9300	2/23	51	14.8	12.9	15.3	13.8**	10
Merchant's Valley	12L9	8200	2/23	35	10.0	8.3	12.3	9.7	11
PAROWAN CREEK									
Yankee Reservoir	12M11	8700	2/24	33	8.3	5.4	- -	- -	3
Ed Ward Flat	12M12	8300	2/24	26	6.7	2.9	5.8	- -	4

x - Adjacent Drainage

* - Less than 15 years in 1938-52 period. Average for 15 years nearest base period.

** - Average for period of record.

UTAH SNOW SURVEYS - ABOUT MARCH 1, 1958

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1957	1956	1938-52 Av.	Prior Yrs. of Record
COAL CREEK									
Cedar Breaks x	12M1	10390	2/25	64	20.8	14.2	20.6	18.7**	12
Midway Valley x	12M2	9400	2/25	69	21.4	17.0	20.6	- -	4
Webster Flat x	12M3	9200	2/25	54	14.0	14.0	13.7	14.4**	8
Urie Flat	12M10	8450	2/26	30	8.2	4.9	5.0	- -	3
ENTERPRISE to NEW HARMONY									
Long Flat	13M2	8200	2/26	18	4.6	1.3	2.8	- -	3
Rattlesnake Springs	13M3	6500	3/3	12	5.1	0.7	T	- -	3
COLORADO RIVER DRAINAGE									
UPPER GREEN RIVER in UTAH									
King's Cabin (upper)	9J1	8800	2/27	28	6.3	7.4	11.7	10.4**	9
King's Cabin (lower)	9J2	8600	2/27	24	6.0	6.6	9.6	9.1**	9
DUCHESNE RIVER									
Trial Lake x	10J8	9800	3/3	72	23.7	23.6	35.3	24.0**	12
Soapstone R. S. x	11J25	7800	3/3	44	13.5	12.8	14.8	12.0**	11
Daniels-Strawby.Smt.	11J23	8000	2/28	50	12.2	14.6	17.0	13.6	27
Strawberry Divide x	11J8	8000	2/26	58	16.4	19.9	21.6	18.0	22
East Portal x	11J7	7560	2/26	36	8.8	11.3	9.7	11.6	23
White River #1 x	10K2	8600	Delayed Data			13.2	16.5	- -	3
Indian Canyon	10K1	9100	2/27	33	8.0	8.4	12.3	8.9*	20
Lakefork Mountain	10J10	10500	2/27	36	9.2	8.2	14.9	10.4**	7
Lakefork Mountain #2	10J11	8900	2/27	19	4.9	5.3	12.0	7.1**	5
Lakefork Mountain #3	10J12	8100	2/27	14	3.4	4.0	8.4	6.1**	5
Paradise Park	9J3	10500	2/26	39	9.2	8.3	15.9	11.6**	7
Julius Park	9J6	9800	No Survey			- -	- -	- -	
Mosby Mtn.(lower)	9J5	9500	2/26	35	7.9	6.9	11.6	9.9**	8
PRICE RIVER									
Huntington-Horseshoe	11K5	9800	2/24	76	26.7	20.5	19.1	21.8**	8
Gooseberry Reservoir	11K4	8700	2/24	51	16.4	17.0	18.7	18.6**	13
Mud Creek #2	11K33	8300	3/1	48	12.8	14.1	14.0	- -	3
Staley Ranch	11K7	7600	3/1	29	7.8	8.8	8.0	7.0*	17
Dry Valley Divide	11K8	7800	3/1	37	11.1	9.8	12.3	9.8*	17

x - Adjacent Drainage.

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** - Average for period of record.

UTAH SNOW SURVEYS - ABOUT MARCH 1, 1958

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1957	1956	1938-52 Av.	Prior Yrs. Record
PRICE RIVER - Continued									
White River #1	10K2	8600	Delayed Data			13.2	16.5	- -	3
White River #2	11K24	7600	"	"		9.2	10.4	- -	3
White River #3	11K25	7400	2/27	31	8.5	9.2	9.7	- -	3
Indian Canyon x	10K1	9100	2/27	33	8.0	8.4	12.3	8.9*	20
Grassy Trail Creek - Left Fork	10K3	7970	Delayed Data			6.6	6.4	- -	2
Corral	10K5	8200	"	"		6.7	6.2	- -	2
SAN RAFAEL RIVER									
Huntington-Horseshoe	11K5	9800	2/24	76	26.7	20.5	19.1	21.8**	8
Gooseberry Reservoir	11K4	8700	2/24	51	16.4	17.0	18.7	18.6**	13
Switchback	11K26	8600	3/1	58	16.3	17.0	17.4	- -	3
Stuart R. S.	11K27	7950	3/1	36	9.1	8.2	9.8	- -	3
Red Pine Ridge	11K28	9400	Delayed Data			17.0	16.8	- -	3
Joe's Valley	11K29	8800	"	"		8.7	8.5	- -	2
Wilberg Ranch	11K30	7800	"	"		2.5	3.4	- -	3
Seeley Creek R. S. #2	11K9	10000	2/27	60	17.2	12.2	13.7	13.8**	6
Buck Flat	11K31	9400	3/7	61	17.3	14.9	15.6	- -	2
Rush Pond	11K38	9800	3/7	54	14.7	13.6	16.2	- -	2
Wrigley Creek	11K32	9000	3/7	47	12.4	9.6	10.8	- -	2
MUDDY RIVER									
Black Fork	11K14	9200	3/6	48	13.3	10.3	12.8	- -	2
Dill's Camp	11K15	9200	3/6	49	13.9	10.7	13.1	- -	2
Mt. Baldy R. S. x	11K12	9500	3/3	82	24.7	20.0	21.7	20.6**	6
FREMONT RIVER									
Farnsworth Lake x	11L1	9900	2/25	58	17.6	14.2	14.4	15.1**	5
Fish Lake	11L3	8700	3/6	35	9.6	3.9	6.4	- -	3
Johnson Valley	11L6	8850	3/6	31	7.9	4.6	7.1	- -	2
Black's Flat-U.M. Crk.	11L4	9250	3/6	47	13.9	6.8	9.6	- -	2
ESCALANTE RIVER									
Widtsoe-Escalante Smt.	11M1	9500	2/28	28	8.9	4.2	7.0	7.7*	21
Widtsoe-Escalante #2	11M2	9500	2/28	38	11.1	5.8	7.1	6.8**	8

x - Adjacent Drainage.

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** - Average for period of record.

UTAH SNOW SURVEYS - ABOUT MARCH 1, 1958

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1957	1956	1938-52 Av.	Prior Yrs. of Record
VIRGIN RIVER									
Long Valley Junction	12M6	7500	2/25	7	0.9	- -	T	4.2**	9
Harris Flat R. S. x	12M5	7700	2/25	29	7.8	7.6	4.5	9.6*	15
Duck Creek R. S. x	12M4	8560	2/25	44	12.0	14.6	13.2	13.8**	14
Midway Valley x	12M2	9400	2/25	69	21.4	17.0	20.6	- -	4
Cedar Breaks x	12M1	10390	2/25	64	20.8	14.2	20.6	18.7**	12
Webster Flat	12M3	9200	2/25	54	14.0	14.0	13.7	14.1**	8
LOWER COLORADO RIVER (Southeastern Utah)									
LaSal Mountain(upper)	9L2	9600	3/3	64	20.5	15.8	13.2	- -	2
LaSal Mountain	9L1	8800	3/3	41	10.6	9.9	8.8	10.1**	6
Buckboard Flat	9M1	9000	3/4	42	12.9	12.5	11.8	- -	2
Camp Jackson	9M2		3/3	35	10.5	13.4	10.5	- -	2

x - Adjacent Drainage.

* - Less than 15 years in 1938-52 period. Average for 15 years nearest base period.

** - Average for period of record.

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
- Weather Bureau

U. S. Department of the Interior
- Geological Survey
- National Park Service

STATE OF UTAH

Utah Agricultural Experiment Station
Utah State Engineer
- Little Bear River Commissioner
- Price River Commissioner
- Provo River Commissioner
- Sevier River Commissioner
- Spanish Fork River Commissioner
- Weber River Commissioner

Utah Water & Power Board

MUNICIPALITIES OR QUASI-MUNICIPALITIES

Salt Lake City Corporation

ORGANIZED PUBLIC AGENCIES

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

PRIVATE AGENCIES

Kaiser Steel Corporation

FEDERAL - STATE - PRIVATE COOPERATIVE

SNOW SURVEY and WATER SUPPLY FORECASTS for UTAH

UNITED STATES DEPARTMENT of AGRICULTURE—SOIL CONSERVATION SERVICE,

and

STATE ENGINEER of UTAH and UTAH AGRICULTURAL EXPERIMENT STATION

in cooperation with

U. S. Forest Service, U. S. National Park Service,
U. S. Geological Survey and
State and Local Irrigation Organizations

AS OF

APR. 1, 1958

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS and WATER SUPPLY FORECASTS

for

U T A H

APRIL 1, 1958

Report Prepared

by

W. E. Anderson - Civil Engineer
U.S.D.A. Field Party
109 West 2nd South
Salt Lake City, Utah

and

Grant R. Talbot - Civil Engineer
Soil Conservation Service
222 South West Temple
Salt Lake City, Utah

Gregory Pearson, Supervisor of Utah Cooperative Snow Surveys, SCS, who continues to be responsible for preparation of this report, was seriously injured in an automobile accident on January 17. His recovery is assured, but for this issue of the report his activity must still be reduced.

Issued

by

J. A. LIBBY

State Conservationist
Soil Conservation Service
Salt Lake City 1, Utah

Wayne D. Criddle
State Engineer
State of Utah
Salt Lake City, Utah

Dr. D. W. Thorne, Dir.
Utah Agricultural Ext. Sta.
Logan, Utah
(Mimeograph Series #441)

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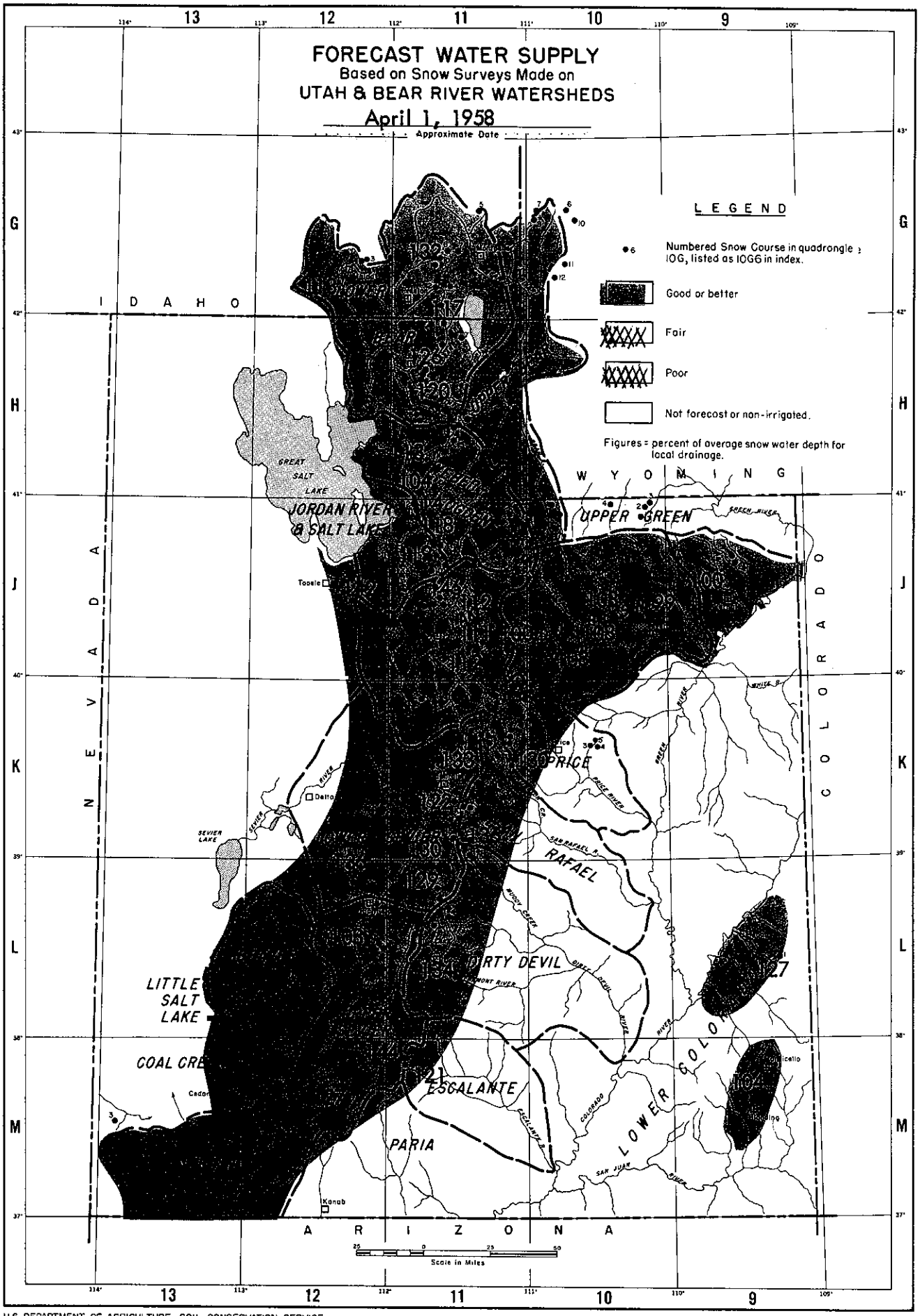
*** ***

Definition of Terms on Map Following

Good - Runoff prospects normal or better, with sufficient flow for all demands of current season, and in the case of holdover reservoirs, for replacements of evaporation and other natural reservoir losses.

Fair - Subnormal runoff prospects, with some deficiency in meeting demands of current season when holdover storage is not available. If holdover storage available, adequate supply for current demands assured by some depletion of holdover storage.

Poor - Greatly subnormal runoff prospects with considerable deficiency of water for demands in current season when holdover storage not available. If holdover storage available, runoff prospects are considered poor if very heavy depletions of holdover storage are necessary to meet current demands.



U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE USDA-SCS-PORTLAND, OREG. 1958

M-926

WATER SUPPLY OUTLOOK

FOR UTAH

APRIL 1, 1958

****
* The present outlook is for good to ex- *
* cellent supplies of irrigation water *
* during the coming season. Runoff fore- *
* casts are all for more than 100% of *
* average except in the eastern part of *
* the Uinta Basin, where they range from *
* 90% to 100% of average. Reservoir stor- *
* age continues to improve and is now 130% *
* of last year and 124% of average for the *
* major reservoirs. *
****

GENERAL OUTLOOK

Increases in the snow pack water content resulting from recent storms have ranged from near average to many times the average increase for March. H igh elevation courses have increased by amounts that range from about average up to three and four times the average increase. The increases in snow stored water on the lower elevation snow courses have been particularly significant, and in some instances have amounted to more than ten times the average increase.

The April 1 average snow water content for all courses is 117% of average for this date.

The effects of the March storms have extended into the Uinta Range, and resulted in considerable improvement in the forecasts for the streams of the Uinta Basin. The western part of the basin now has prospects for runoff of 100% of average or more, while the eastern part is now in the range of 90% to 100% of average. Continuation of the present series of storms may well result in still further improvement for this area. It is probable that Moon Lake will substantially refill following initial release.

In the Sevier basin, which has been short of water in recent years, the present reservoir storage, while still only 81% of average, is now 360% of last year and 204% of two years ago this date. Stream runoff through the Sevier drainage basin should be two to three times the amount of last year, and well above average. Snow water content is now from 120% to 170% of average over this basin.

Recent storms have added to the snow pack over considerable areas of the state. Several of these storms have occurred subsequent to the date on which the current snow surveys were made, and may have resulted in significant increases in the snow water content and resulting runoff. The effect of these storms cannot be accurately evaluated at this time, nor can the duration of the storm series be estimated.

UTAH STREAMFLOW FORECASTS - APRIL 1, 1958

The following summarized runoff forecasts are based principally on mountain snow cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normanl of temperature and/or precipitation will correspondingly modify these forecasts.

BASIN, STREAM and STATION	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1958	% 15-Yr. Av.	Forecast Period	Measured 1957	Measured 1956	Measured Runoff 1955	15-Yr. Av. 1938-52
GREAT BASIN							
BEAR RIVER SYSTEM							
Bear River near Evanston, Wyo.	154	108	Apr-Sept		124	74	142
Bear River near Randolph, Utah	123	106	Apr-Sept	142	94	26.4	116(1)
Smith's Fork near Border, Wyoming	121	106	Apr-Sept	148	152	78	114(2)
Bear River at Harer, Idaho	307	109	Apr-Sept	365	311	114	281
Little Bear River nr Paradise, Utah	53	120	Apr-Sept	45	38	40	44
Logan River near Logan, Utah (3)	163	123	Apr-Sept	142	155	99	133
Blacksmith Fork near H yrum, Utah (4)	76	127	Apr-Sept	68	73	46	60
WEBER-OGDEN RIVERS							
Weber River near Oakley, Utah	138	108	Apr-Sept	153	145	98	128
Weber River near Coalville, Utah(5)	163	118	Apr-Sept	119	136	97	138
Chalk Creek at Coalville, Utah	47	112	Apr-Sept	53	35	18.6	42

(1) Average runoff for 12 years, 1944-1955.
(2) Average runoff for 13 years, 1943-1955.
(3) Includes U.P. & L. Co. tailrace and Logan, Hyde Park & Smithfield Canal
(4) Above Utah Power and Light Company's dam.
(5) Includes diversion by Weber-Provo canal and change in storage Wanship Reservoir.

UTAH STREAMFLOW FORECASTS - APRIL 1, 1958

BASIN, STREAM and STATION	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1958	% 15-Yr. Av.	Forecast Period	Measured Runoff 1957	1956	1955	15-Yr. Av. 1938-5
WEBER-OGDEN RIVERS -							
East Canyon Creek nr Morgan, Utah (6)	41	140	Apr-Sept	28	16.9	14.1	29.2
South Fork Ogden River nr Huntsville, Utah	88	135	Apr-Sept	77	63	48	65
PROVO RIVER & UTAH LAKE							
Spanish Fork at Thistle, Utah	62	138	Apr-Sept	54	27.3	30	45
Hobble Creek near Springville, Utah	26	104	Apr-Sept	25.6	15.5	10.3	25(7
Provo River at Vivia n Park, Utah(8)	187	113	Apr-Sept	182	133	109	166
American Fork River nr American Fork, Utah	49	136	Apr-Sept	33	32	26.4	36
JORDAN RIVER & SALT LAKE							
Little Cottonwood Creek nr Salt Lake City, Utah	40	100	Apr-Sept	38	37	34	40
Big Cottonwood near Salt Lake City	42	105	Apr-Sept	50	35	34	40
Parley's Creek near Sa lt Lake City, Utah	18	118	Apr-Sept	16	8.4	7.5	15.2
SEVIER RIVER							
Sevier River at Hatch, Utah	80	138	Apr-Sept	48	25.8	23.8	58(9
Sevier River near Kingston, Utah	64	139	Apr-Sept	18.1	5.3	7.5	46

(6) Observed flow plus change in storage in East Canyon reservoir.
(7) For ten years 1946-1955
(8) Observed flow plus flow at South Fork Provo River at Vivian Park, plus change in storage in Deer Creek reservoir, minus diversion thru Duchesne tunnel, minus diversion by Weber-Provo Canal, plus diversion thru Salt Lake Aqueduct.
(9) Average runoff for 15 years, 1940-1954.

UTAH STREAMFLOW FORECASTS - APRIL 1, 1958

BASIN, STREAM and STATION	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1958	% 15-Yr. Av.	Forecast Period	Measured Runoff 1957	1956	1955	15-Yr Av. 1938-5
East Fork Sevier River nr Kingston, Utah(10)	32	111	Apr-Sept	28.8	7.9	8.6	28.8
Sevier River below Piute Dam (11)	98	130	Apr-Sept	33.2	13.1	16.1	75
BEAVER RIVER							
Beaver River near Beaver, Utah	56	165	Apr-Sept	44.6	20.2	16.4	34
COAL CREEK							
Coal Creek near Cedar City, Utah	26	127	Apr-Sept	20.3	10.6	10.1	20.4
COLORADO RIVER BASIN							
UPPER GREEN RIVER							
Ashley Creek near Vernal, Utah	58	89	Apr-Sept	64	49	40	65
DUCHESNE RIVER							
Duchesne River near Tabiona, Utah (12)	122	100	Apr-Sept	108	121	89	122
Rock Creek near Mountain Home, Utah	118	108	Apr-Sept	124	111	80	109
Strawberry River at Duchesne, Utah	103	126	Apr-Sept	79	59	49	82
Lakefork River below Moon Lake, Utah(13)	78	101	Apr-Sept	73.9	82	58	77(1
Uinta River near Neola, Utah	102	92	Apr-Sept	103.6	90	71	111
Whiterocks River near Whiterocks, Utah	67	93	Apr-Sept	69.8	54	47	72

(10) Observed flow plus change in storage in Otter Creek Reservoir
(11) Observed flow plus change in storage in Otter Creek and Piute Reservoirs.
(12) Observed flow plus diversion through Duchesne tunnel.
(13) Observed flow plus change in storage in Moon Lake reservoir. Average runoff for 14 years, 1942-1955

UTAH STREAMFLOW FORECASTS - APRIL 1, 1958

BASIN, STREAM and STATION	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1958	% 15-Yr. Av.	Forecast Period	Measured Runoff 1957	1956	1955	15-Yr Av. 1938-5
PRICE RIVER							
Price River near Scofield, Utah (14)	58	135	Apr-Sept	24.7	28.7	26.6	43
Price River near Heiner, Utah (14)	115	149	Apr-Sept	61.7	48	45	77
SAN RAFAEL RIVER							
Huntington Creek near Huntington, Utah	79	127	Apr-Sept	- -	44	36	62
Cottonwood Creek near Orangeville, Utah	88	138	Apr-Sept	- -	41	35	64
Ferron Creek near Ferron, Utah	69	153	Apr-Sept	- -	31	25.6	42 (15
VIRGIN RIVER							
Virgin River at Vergin, Utah	69	115	Apr-June	- -	32.5	23.6	60

(14) Observed flow fplus change in storage in Scofield reservoir/
(15) Average runoff for 8 years, 1948-1955.

STATUS OF UTAH RESERVOIR STORAGE - APRIL 1, 1958 (1)

BASIN and/or STREAM	RESERVOIR	USABLE CAPACITY 1000s AF	USABLE STORAGE - 1000 ACRE FEET			
			1958	1957	1956	15-Yr. Av. 1938-52
		GREAT BASIN				
Bear River	Bear Lake	1421.0	975.4	894.7	724.0	750.5
Little Bear	Hyrum	15.3	12.2	12.0	11.5	11.6(2)
Ogden	Pineview	110.0	4.4	15.0	4.3	10.7
Weber	Wanship	59.1	36.2	- -	- -	- -
	Echo	73.9	44.0	36.6	36.8	33.7
	East Canyon	28.7	17.3	18.2	15.5	18.4
Provo	Deer Creek	144.7	96.9	80.5	81.6	70.6(3)
Spanish Fork	Strawberry	270.0	160.1	141.8	152.6	102.6
Utah Lake	Utah Lake	1149.0(4)	662.6	474.6	576.0	547.9
Sevier River	Otter Creek	52.5	35.8	16.6	19.2	40.4
	Piute	74.0	56.7	16.2	21.7	61.7
	Sevier Bridge	236.0	126.8	52.6	66.8	169.1
Beaver River	Rocky Ford	23.3	20.0*	8.1	9.3	18.3
		COLORADO RIVER DRAINAGE				
Lake Fork	Moon Lake	35.8	30.0*	9.8	11.3	18.3
Price River	Scofield	65.8	41.8*	6.0	8.7	14.2

(1) All data contained in this table supplied by U. S. Geological Survey, except Wanship Reservoir & Moon Lake by U. S. Bureau of Reclamation.
(2) Average for 1939-53
(3) Average for 1942-55.
(4) Active capacity taken at 3.1 feet above compromise point.
* Estimate

COMPARATIVE SNOW DATA

Summary of Snow Survey Data by Tributary Watersheds as of April 1, 1958

TRIBUTARY BASINS	No of Courses Averaged	Years of Record	1958 Snow Water Expresse as percent of 1957	1956	& 1938-52 Av.
GREAT BASIN					
Bear River South of Evanston(Wyo)	3	3-20	89	101	97
Smith's Fork Bear River(Wyo.)	4	3-22	92	86	101
Emigration Creek(Idaho)	5	3-22	122	141	128
Strawberry-Mink Creeks(Idaho)	3	3	135	156	132
Cub River (Idaho)	1	7	100	97	117
Logan River	4	4-11	114	120	126
Blacksmith Fork-Little Bear	5	6-11	118	126	120
Malad River (Idaho)	2	3	225	139	113
Ogden River, South Fork	3	6-10	114	120	113
Weber River above Echo Dam	9	7-23	102	118	104
East Canyon Creek	3	10-23	110	139	114
Farmington Area	2	7	134	150	118
Salt Lake Area	4	5-23	114	146	119
Tooele Area	1	4	139	211	142
American Fork River	3	3-23	140	181	146
Provo River above Vivian Park	7	7-27	105	128	112
Strawberry Reservoir Valley	3	22-27	92	130	100
Hobble Creek	1	5	94	161	111
Payson Creek	1	10	110	172	112
Sevier River above Panguitch	4	4-15	149	102	127
East Fork Sevier River	4	3-21	150	190	144
Clear Creek a bove Sevier	1	13	116	168	103
Salina Creek	2	5-7	110	163	129
Mt. Pleasant Area	2	8-13	120	184	133
Ephraim Area	2	8-20	93	145	122
Manti Area	4	2-28	100	144	122
Mayfield Area	2	6	113	155	130
Chicken Creek - Levan	2	1	97	110	102
Chalk Creek - Fillmore	2	4	134	195	136
Beaver River	3	9-11	116	167	124
Parowan Creek	2	13-14	224	273	118
Coal Creek - Cedar City	3	4-12	141	139	124
COLORADO RIVER BASIN					
Duchesne River above Tabiona	3	11-27	100	109	108
Strawberry River	4	3-27	105	134	108
Lakefork River	2	5-7	110	98	108
Whiterocks - Uintah Rivers	2	7-8	127	81	99
Ashley Creek	4	7-9	126	107	100
Price River	5	8-20	115	169	139
San Rafael River	3	6-13	116	185	136
Muddy River	3	7-11	119	154	132
Fremont River	5	4-27	149	178	169
Escalante River	2	8-21	194	290	153
Virgin River	4	8-15	150	138	121
Southeastern Utah(near Moab)	1	6	144	252	127
Southeastern Utah(near Monticello)	1	2	108	189	104

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1957	1956	1938-52 Av.	Prior Yrs. of Record
GREAT BASIN DRAINAGE									
Bear River above Harer, Idaho									
Trial Lake x	10J8	9800	3/27	84	27.8	28.4	33.6	27.7	27
Hayden Fork	10J7	9300	4/3	53	15.7	16.3	20.8	19.5**	6
Stillwater Camp	10J17	8550	4/3	42	11.2	12.8	13.1	- -	3
Goodman Ranch	10J6	7900	4/3	23	6.7	8.0	4.7	5.6*	20
Monte Cristo R. S.	11H12	8960	3/31	86	31.5	25.7	31.6	26.3	25
Poison Meadows x	10G6	8500	3/26	93	31.0	30.3	47.0	31.4**	10
Piney LaBarge x	10G10	8820	3/26	59	20.5	20.4	26.2	18.5	21
Big Park	10G11	8700	3/24	60	20.5	19.7	26.1	22.6**	7
Kelly R. S.	10G12	8200	3/24	56	18.5	17.6	23.0	19.6**	7
Salt River Summit x	10G8	7900	3/31	49	16.1	18.6	18.5	16.8**	10
CCC Camp x	10G7	7500	4/1	37	12.4	15.8	12.1	11.2	22
BEAR RIVER below Harer, Idaho									
Garden City Summit	11H7	7900	3/28	63	23.0	21.3	2017	20.0	27
Emigrant Summit	11G6	7700	4/1	79	27.5	24.6	28.0	24.3	22
Emigration Canyon (mouth)	11G7	6500	4/1	37	12.6	13.2	9.0	9.6**	5
Slug Creek Divide	11G5	7300	3/31	52	16.7	17.9	17.2	15.3	22
Strawberry Mink Divied	11G10	6800	3/28	66	26.1	21.4	22.0	- -	3
Strawberry Creek	11G9	5800	3/28	36	13.9	10.4	10.6	- -	3
Christensen Ranch	11G11	5600	3/27	29	10.9	7.3	5.0	- -	3
Willow Flat	11G4	6100	3/27	46	18.8	15.2	13.8	- -	3
Cub River R. S.	11G12	5400	3/27	26	10.3	4.8	4.5	- -	3
Franklin Basin R.S.	11G8	8200	3/25	87	31.5	31.6	31.8	26.9	34
Klondike Narrows	11J1	7400	3/25	64	24.3	22.3	21.4	- -	4
Tony Grove R. S.	11H3	6250	3/28	33	13.4	9.5	8.4	9.2*	32
Mt. Logan	11H6	9000	No Survey			30.5	34.8	29.6	34
Spring Hollow(upper)	11H5	8000	"			28.1	31.5	26.1	34
Spring H ollow(lower)	11H4	7000	"			16.1	11.8	14.1	34
Monte Cristo R. S.	11H 12	8960	3/31	86	31.5	25.7	31.6	26.3	25
Dry Bread Pond x	11H13	8230	3/31	66	22.2	19.0	20.3	19.2	20
Beaver Crk-Skunk Crk.x	11H 14	7150	3/31	44	14.5	14.1	9.5	14.1**	6
Little Bear(upper)	11H 25	6850	3/27	38	13.9	10.7	7.4	- -	2
Little Bear(lower)	11H26	6100	3/27	31	11.2	6.4	3.1	- -	2
Oxford Mountain	12G3	6800	3/26	30	10.6	8.5	6.6	- -	3
Dry Creek Flat	12G4	6350	3/26	13	4.6	1.4	3.9	- -	3

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OGDEN RIVER									
Monte Cristo R. S. x	11H12	8960	3/31	86	31.5	25.7	31.6	26.3	25
Dry Bread Pond	11H13	8230	3/31	66	22.2	19.0	20.3	19.2	20
Beaver Crk-Skunk Crk.	11H14	7150	3/31	44	14.5	14.1	9.5	14.1**	6
Sagebrush Flat	11H15	6300	3/31	9	2.6	0.0	0.0	1.2**	5
Ben Lomond Peak	11H8	8000	3/28	114	45.5	30.5	32.9	35.5**	7
Ben Lomond(lower)	11H9	6000	3/28	55	21.3	12.4	9.8	--	4
Mt. Ogden	11H10	8600	3/29	111	40.2	27.9	27.8	30.4**	10
Snow Basin	11H11	6500	3/29	58	19.8	11.9	9.8	15.0**	9
WEBER RIVER									
Trial Lake x	10J8	9800	3/27	84	27.8	28.4	33.6	27.7	27
Smith & Morehouse	11J4	7600	4/4	52	16.0	14.7	10.9	14.2	29
Redden Mine(upper)	11J5	9000	3/27	65	22.6	21.8	21.8	21.9	28
Redden Mine(lower)	11J6	8500	3/27	62	20.8	19.7	20.7	20.9	28
Beaver Creek R. S.	11J24	7500	3/26	37	11.6	10.5	5.8	8.7*	26
Chalk Creek #1	11J1	9100	3/28	70	22.8	24.1	29.2	26.5**	7
Chalk Creek #2	11J2	8200	3/28	44	14.5	16.6	16.2	16.6**	7
Chalk Creek #3	11J3	7500	3/28	24	8.9	10.2	Patchy	7.6**	6
Silver Lake x	11J16	8725	3/29	88	27.3	26.6	27.9	27.3	27
Parley's Canyon Smt.	11J15	7500	4/1	64	22.4	20.4	15.4	19.0	24
Lamb's Canyon x	11J14	6600	4/1	60	19.6	16.6	11.2	15.7	23
PROVO RIVER & UTAH LAKE									
Trial Lake	10J8	9800	3/27	84	27.8	28.4	33.6	27.7	27
Soapstone R. S.	11J25	7800	3/26	47	15.7	14.8	13.0	13.1	27
Daniels-Strawby. Smt.	11J23	8000	3/31	52	16.3	17.1	13.2	15.8	28
Strawberry Divide	11J8	8000	3/30	64	22.1	24.3	19.9	21.7	24
East Portal	11J7	7560	3/30	42	12.7	14.3	8.3	13.2	24
Hobble Creek Summit	11J22	7300	3/29	45	15.9	17.0	9.9	14.3	22
Packard Canyon	11J31	6400	3/29	33	12.2	12.1	6.2	--	3
Clear Creek Ridge #1	11K21	9200	3/27	64	22.1	21.4	16.8	--	3
Clear Creek Ridge #2	11K22	8000	3/27	52	17.1	17.9	12.4	--	3
Clear Creek Ridge #3	11K23	6600	3/27	26	10.5	6.5	5.2	--	3
Payson R. S.	11K1	8050	3/26	65	23.0	21.0	13.4	19.2*	15
Rock Bridge	11K2	6750	3/26	45	16.3	14.6	6.6	11.2**	5
Dutchman R. S.	11J17	7500	3/31	68	26.7	17.6	14.6	20.2	27
Timpanogas Divide	11J21	8200	3/31	86	31.6	24.8	27.2	26.7	23
Camp Altamont	11J20	7300	3/31	59	23.5	16.5	9.6	18.4	23
South Fork R. S.	11J19	6100	3/31	30	10.5	0.0	0.0	4.9	23
Timpanogas Cave Camp	11J18	5500	3/31	5	1.6	0.0	0.0	2.1	23

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UTAH SNOW SURVEYS - ABOUT APRIL 1, 1958

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JORDAN RIVER and GREAT SALT LAKE									
Silver Lake	11J16	8720	3/29	88	27.3	26.6	27.9	27.3	27
Mill D. South Fork	11J10	7400	3/29	73	27.4	21.7	16.2	20.4	23
Lamb's Canyon	11J14	6600	4/1	60	19.6	16.6	11.2	15.7	23
Parley's Canyon Smt. x	11J15	7500	4/1	64	22.4	20.4	15.4	19.0	24
Farmington Canyon (upper)	11J11	8000	3/29	101	33.6	26.4	27.1	28.9**	7
Farmington Canyon (lower)	11J12	6950	3/29	76	28.4	19.9	16.0	23.8**	7
Barnard Creek	11J13	8000	3/29	92	31.6	23.6	24.7	27.3	22
Rocky Basin-Settlement Canyon	12J1	8900	3/25	83	29.2	29.0	20.6	- -	4
Bevan's Cabin	12J2	6450	3/25	29	10.2	9.9	4.9	- -	3
Middle Canyon	12J3	7000	3/31	51	17.3	12.6	8.3	- -	4
SEVIER RIVER above RICHFIELD									
Cedar Breaks	12M1	10390	3/25	90	30.4	21.1	19.2	25.0	23
Midway Valley	12M2	9400	3/25	96	31.5	22.6	20.0	- -	4
Duck Creek R. S.	12M4	8560	3/28	71	18.7	16.6	9.6	17.4	23
Harris Flat R. S.	12M5	7700	3/28	39	13.5	6.7	0.0	9.4	27
Long Valley Jnct. x	12M6	7500	3/28	11	3.1	0.0	0.0	5.5	21
Castle Valley	12M13	9700	3/31	59	17.8	11.6	9.4	- -	2
Panguitch Lake	12M7	8200	3/31	24	8.3	0.3	0.0	6.8	28
Bryce Canyon	12M8	8000	4/1	25	7.4	0.0	0.0	5.5	22
Widtsoe-Escalante Summit	11M1	9500	3/27	42	12.5	5.7	3.6	25.0	26
Widtsoe-Escalante #2	11M2	9500	3/27	52	14.3	8.4	6.1	8.3**	8
Fish Lake x	11L3	8700	3/20	43	11.4	5.4	6.4	8.4	27
Box Creek	12L4	9800	3/21	62	17.4	14.2	10.0	---	4
Squaw Springs	12L5	9300	3/21	40	11.1	9.1	5.3	- -	4
Big Flat x	12L7	10000	3/23	90	27.0	22.6	16.5	20.8	22
Kimberly Mine (upper)	12L6	8900	3/24	60	18.8	16.2	11.2	18.3	23
SEVIER RIVER below RICHFIELD (including SAN PITCH RIVER									
Farnsworth Lake	11L1	9900	3/25	73	22.8	21.6	16.1	18.0**	7
Gooseberry R. S.	11L2	8400	3/25	47	15.4	13.4	8.3	11.6	28
Huntington-Horseshoe x	11K5	9800	3/27	93	35.2	28.1	19.2	26.3	28
Gooseberry Reservoir x	11K4	8700	3/27	69	24.1	23.5	17.7	20.8	30
Mammoth R.S. - Cottonwood Creek	11K3	8800	3/27	70	24.8	23.0	18.8	21.9	29

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SEVIER RIVER below RICHFIELD - Continued including SAN PITCH RIVER									
G.B.R.C. Meadows	11K10	10000	3/28	95	32.8	32.4	24.0	26.2	28
G.B.R.C. Headqtrs.	11K11	8700	3/31	68	20.8	23.8	13.7	17.5	28
Middle Fork	11K34	9600	4/3	98	30.1	27.5	21.8	- -	2
Thistle Flat	11K35	8500	4/3	63	20.2	19.9	13.8	- -	2
Mt. Baldy R. S.	11K12	9500	4/2	97	33.2	28.8	22.1	25.0**	7
Beaver Dams	11K13	8000	4/2	46	16.3	14.7	10.2	12.6**	7
Rees' Flat	11K36	7300	3/26	46	14.4	15.1	13.1	- -	2
Pine Creek	12L1	8700	3/20	57	19.7	16.4	12.3	15.4**	9
Bear Canyon	12L3	7200	3/21	41	12.4	8.4	5.4	- -	4
BEAVER RIVER									
Big Flat	12L7	10000	3/23	90	27.0	22.6	16.5	20.8	22
Otter Lake	12L8	9300	3/23	74	20.7	18.1	13.5	17.5	22
Merchant's Valley	12L9	8200	3/23	54	14.9	12.0	8.1	12.1	27
PAROWAN CREEK									
Yankee Reservoir	12M11	8700	3/24	48	13.2	8.6	7.3	11.6**	14
Ed Ward Flat	12M12	8300	3/24	40	10.6	4.1	2.9	8.6**	13
COAL CREEK									
Cedar Breaks x	12M1	10390	3/25	90	30.4	21.1	19.2	25.0	23
Midway Valley x	12M2	9400	3/25	96	31.5	22.6	20.0	- -	4
Webster Flat x	12M3	9200	3/25	70	22.1	15.8	11.0	19.8	31
Urie Flat	12M10	8450	3/25	32	11.8	5.7	0.0	- -	4
ENTERPRISE to NEW HARMONY									
Long Flat	13M2	8200	3/27	29	11.6	0.0	- -	- -	2
Rattlesnake Springs	13M3	6500	3/27	14	6.4	0.0	0.0	- -	3
COLORADO RIVER DRAINAGE									
UPPER GREEN RIVER in UTAH									
Hewinta R. S.	10J4	9500	4/2	46	11.9	9.4	9.5	9.7*	24
Hole-in-the-Rock	10J1	9150	3/31	33	7.2	7.0	4.4	6.4	27
Middle Beaver Creek	10J2	8550	3/31	28	5.9	5.2	4.5	- -	4
Hole-in-the-Rock R. S.	10J3	8300	3/31	14	3.6	0.0	T	- -	4
King's Cabin(upper)	9J1	8800	4/1	47	11.5	9.5	10.0	11.4	28
King's Cabin(lower)	9J2	8600	4/1	38	10.3	8.1	8.3	10.4	28

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DUCHESNE RIVER									
Trial Lake	10J8	9800	3/27	84	27.8	28.4	33.6	27.7	27
Soapstone R. S. x	11J25	7800	3/26	47	15.7	14.8	13.0	13.1	27
Daniels-Strawby.Smt.x	11J23	8000	3/31	52	16.3	17.1	13.2	15.8	28
Strawberry Divide x	11J8	8000	3/30	64	22.1	24.3	19.9	21.7	24
East Portal x	11J7	7560	3/30	42	12.7	14.3	8.3	13.2	24
White River #1 x	10K2	8600	3/28	51	14.8	15.0	15.1	--	3
Currant Creek	11J32	7800	3/27	37	11.0	9.0	8.7	--	2
Indian Canyon	10K1	9100	4/2	57	14.8	11.0	9.1	11.4	28
Rock Creek	10J18	7900	3/28	26	7.5	5.7	6.6	--	3
Brown Duck Lake	10J9	10300	No Survey			15.7	21.5	19.4**	13
Jackson Park	10J19	11300	3/26	57	13.2	12.8	17.5	--	2
Lakefork Mountain	10J10	10500	3/25	52	13.6	10.4	15.0	13.0	27
Lakefork Mountain #2	10J11	8900	3/25	28	8.8	4.4	7.9	7.5**	5
Lakefork Mountain #3	10J12	8100	3/25	18	5.8	3.9	5.2	5.5**	5
Paradise Park	9J3	10500	3/31	58	12.8	11.0	15.9	13.4*	26
Julius Park	9J6	9800	3/31	63	17.5	New Course			
Mosby Mtn.(lower)	9J5	9500	3/31	57	12.8	9.2	--	12.4	27
PRICE RIVER									
Huntington Horseshoe x	11K5	9800	3/27	93	35.2	28.1	19.2	26.3	28
Gooseberry Reservoir	11K4	8700	3/27	69	24.1	23.5	17.7	20.8	30
Mammoth R. S. - Cottonwood Creek	11K3	8800	3/27	70	24.8	23.0	18.8	21.9	29
Mud Creek #2	11K33	8300	3/31	53	17.1	17.7	10.7	--	3
Stanley Ranch	11K7	7600	3/31	31	10.6	10.6	--	6.2*	21
Dry Valley Divide	11K8	7800	3/31	41	13.8	13.7	9.5	10.8	23
White River #1	10K2	8600	3/28	51	14.8	15.0	15.1	--	3
White River #2	11K24	7600	3/28	31	10.0	8.9	7.2	--	3
White River #3	11K25	7400	3/28	30	11.4	9.4	5.6	--	3
Indian Canyon x	10K1	9100	4/2	57	14.8	11.0	9.1	11.4	28
Grassy Trail Creek - Left Fork	10K3	7970	4/4	64	17.8	8.5	0.0	--	3
Corral	10K5	8200	4/4	55	17.2	8.2	0.0	--	3
SAN RAFAEL RIVER									
Huntington-Horseshoe	11K5	9800	3/27	93	35.2	28.1	19.2	26.3	28
Gooseberry Reservoir x	11K4	8700	3/27	69	24.1	23.5	17.7	20.8	30
Switchback	11K26	8600	3/29	62	21.0	22.8	16.4	--	3
Stuart R. S.	11K27	7950	3/29	39	11.6	11.1	6.8	--	3
Red Pine Ridge	11K28	9400	4/3	74	23.7	23.3	16.1	--	3
Joe's Valley	11K29	8800	4/3	44	14.9	12.8	7.8	--	2

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SAN RAFAEL RIVER - Continued									
Wilberg Ranch	11K30	7800	4/3	16	4.5	1.8	0.0	- -	3
Seeley Creek R. S. #2	11K9	10000	3/28	73	23.8	22.3	12.8	16.8	28
Buck Flat	11K31	9400	4/2	79	24.6	20.4	14.8	- -	2
Rush Pond	11K38	9800	4/2	73	21.0	17.8	14.3	- -	3
Wrigley Creek	11K32	9000	4/2	60	17.2	11.9	8.6	- -	2
MUDDY RIVER									
Black's Fork	11K14	9200	4/1	57	18.0	15.1	12.5	15.1**	11
Dill's Camp	11K15	9200	4/1	59	19.2	15.6	11.5	13.4**	9
Mt. Baldy R. S. x	11K12	9500	4/2	97	33.2	28.8	22.1	25.0**	7
FREMONT RIVER									
Farnsworth Lake x	11L1	9900	3/25	73	22.8	21.6	16.1	18.0**	7
Fish Lake	11L3	8700	3/20	43	11.4	5.4	6.4	8.4	27
Johnson Valley	11L6	8850	3/20	38	9.8	7.7	6.0	- -	3
Black's Flat-U.M.Crk.	11L4	9250	3/20	54	15.8	10.0	9.7	- -	4
Donkey Reservoir	11L5	9800	3/26	50	13.0	9.0	5.3	- -	4
ESCALANTE RIVER									
Widtsoe-Escalante Smt.	11M1	9500	3/27	42	12.5	5.7	3.6	25.0	26
Widtsoe-Escalante #2	11M2	9500	3/27	52	14.3	8.4	6.1	8.3**	7
VIRGIN RIVER									
Long Valley Junction	12M6	7500	3/28	11	3.1	0.0	0.0	5.5	21
Harris Flat R. S. x	12M5	7700	3/28	39	13.5	6.7	0.0	9.4	27
Duck Creek R. S. x	12M4	8560	3/28	71	18.7	16.6	9.6	17.4	23
Midway Valley x	12M2	9400	3/25	96	31.5	22.6	20.0	- -	4
Cedar Breaks x	12M1	10390	3/25	90	30.4	21.1	19.2	25.0	23
Webster Flat	12M3	9200	3/25	70	22.1	15.8	11.0	19.8	31
LOWER COLORADO RIVER (Southeastern Utah)									
LaSal Mtn. (upper)	9L2	9600	3/26	79	25.8	22.7	12.0	- -	2
LaSal Mountain	9L1	8800	3/26	49	14.6	12.8	5.8	11.5	27
Buckboard Flat	9M1	9000	3/26	51	15.8	14.7	8.4	15.3	28
Camp Jackson	9M2		3/27	50	15.6	14.6	6.0	- -	2

x - Adjacent Drainage.
* - Less than 15 years in 1938-52 period. Average for 15 years nearest base period.
** - Average for period of record.

UTAH SNOW SURVEYS - DELAYED REPORTS RECEIVED

SINCE LAST BULLETIN

(MARCH 1, 1958)

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS - 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)
GREAT BASIN DRAINAGE					
Bear River above Harer, Idaho					
Big Park	10G11	8700	3/10	64	17.9
Kelly R. S.	10G12	8200	3/10	58	17.4
Provo River & Utah Lake					
Dutchman R. S.	11J17	7500	3/8	55	19.7
COLORADO RIVER DRAINAGE					
Price River					
White River #1	10K2	8600	3/10	44	13.0
White River #2	11K24	7600	3/10	30	7.9
Grassy Trail Creek - Left Fork	10K3	7970	3/11	45	11.6
Corral	10K5	8200	3/11	35	9.8
San Rafael River					
Red Pine Ridge	11K28	9400	3/8	60	18.4
Joe's Valley	11K29	8800	3/8	38	10.6
Wilberg Ranch	11K30	7800	3/8	15	3.5

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
- Weather Bureau

U. S. Department of the Interior
- Geological Survey
- National Park Service

STATE OF UTAH

Utah Agricultural Experiment Station
Utah State Engineer
- Little Bear River Commissioner
- Price River Commissioner
- Provo River Commissioner
- Sevier River Commissioner
- Spanish Fork River Commissioner
- Weber River Commissioner

Utah Water & Power Board

MUNICIPALITIES OR QUASI-MUNICIPALITIES

Salt Lake City Corporation

ORGANIZED PUBLIC AGENCIES

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

PRIVATE AGENCIES

Kaiser Steel Corporation

FEDERAL - STATE - PRIVATE COOPERATIVE

SNOW SURVEY and WATER SUPPLY FORECASTS for UTAH

UNITED STATES DEPARTMENT of AGRICULTURE···SOIL CONSERVATION SERVICE,

and

STATE ENGINEER of UTAH and UTAH AGRICULTURAL EXPERIMENT STATION

in cooperation with

U. S. Forest Service, U. S. National Park Service,
U. S. Geological Survey and
State and Local Irrigation Organizations

AS OF

MAY 1, 1958

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS and WATER SUPPLY FORECASTS

for

U T A H

MAY 1, 1958

Report Prepared

by

W. E. Anderson - Civil Engineer
U.S.D.A. Field Party
109 West 2nd South
Salt Lake City, Utah

and

Grant R. Talbot - Civil Engineer
Soil Conservation Service
222 South West Temple
Salt Lake City, Utah

Gregory Pearson, Supervisor of Utah Cooperative Snow Surveys, SCS, who continues to be responsible for preparation of this report, was seriously injured in an automobile accident on January 17. His recovery is assured, but for this issue of the report his activity must still be reduced.

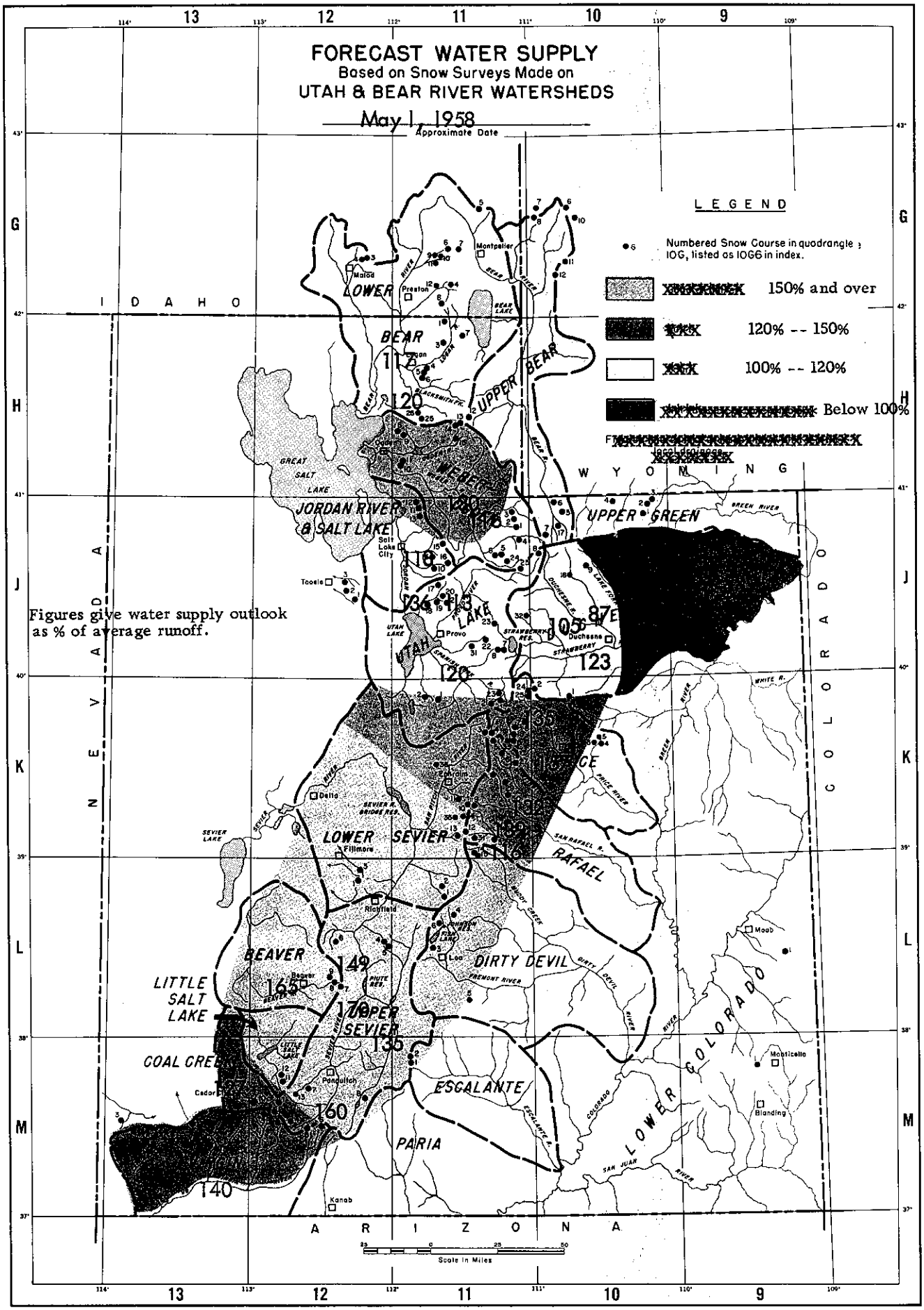
Issued

by

J. A. LIBBY
State Conservationist
Soil Conservation Service
Salt Lake City 1, Utah

Wayne D. Criddle
State Engineer
State of Utah
Salt Lake City, Utah

Dr. D. W. Thorne, D
Utah Agricultural Ext. S
Logan, Utah
(Mimeograph Series #441



U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE USDA-SCS-PORTLAND, OREG. 1958

M-926

WATER SUPPLY OUTLOOK

FOR UTAH

MAY 1, 1958

Utah's water supply outlook for this year, based on May 1 snow surveys, can be briefly described as "very good" everywhere except the eastern part of the Uinta Basin. For parts of the state, notably the Sevier River Basin, the water supply this year will be amont the better years on record. The outlook for the eastern Uinta Basin continues to be below average, with present forecasts in amounts ranging between 80% and 100% of average.

GENERAL OUTLOOK

There was considerable melting of snow cover during the month. Most low elevation courses lost substantial amounts of water. This was particularly noticeable since some significant watershed areas received less than average precipitation. Some courses would normally catch additional snow to partially offset losses from melting, but this did not occur to the usual extent on courses below about 8200 feet elevation. Decreases in the amount of snow stored water amounted to as much as ten inches or more at lower elevations. The runoff resulting from the melting of the low elevation snow has contributed to increased storage in most of the reservoirs and this will be available for use later in the season.

The below normal precipitation registered in some areas has resulted in some minor reductions from the runoff forecasts made on April 1. This is to be expected when the rainfall amounts fall below normal, since April 1 forecasts are necessarily made on the presumption that average conditions of rainfall, temperature, and wind movement will obtain during the remainder of the season. The heavy snow storm of about April 23, which received widespread publicity, was largely confined to the Salt Lake basin and adjacent Wasatch Front areas. It added only minor amounts to the snow stored water on the watersheds of this area.

In contrast to the loss of snow at the lower elevations, many high elevation courses have gained in water content during the month. The breaking point appears to be at about 8200 to 8500 feet elevation. Snow courses at elevations above that have tended to hold their own or have increased in water content. Farmington Canyon snow course near Ogden and Big Flat in the Sevier Basin both gained more than four inches, while GBRC Meadows at 10,000 gained over three inches. Such gains are not unusual, but since they occur over and above the natural losses expected at this part of the season they are highly significant in evaluating the water supply outlook.

Reservoir storage has continued to improve this month. It now stands at 67% of capacity, 122% of average for this date, and 132% of last year on this date, for the 15 major reservoirs of the state.

UTAH STREAMFLOW FORECASTS - MAY 1, 1958

The following summarized runoff forecasts are based principally on mountain snow cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts.

BASIN, STREAM and STATION	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1958	% 15-Yr. Av.	Fore-cast Period	Measured Runoff 1957	1956	1955	15-Yr. Av. 1938-
			GREAT BASIN				
BEAR RIVER SYSTEM							
Bear River near Evanston, Wyo.	142	100	Apr-Sept		124	74	142
Bear River near Randolph, Utah	122	105	Apr-Sept	142	94	26.4	116(1
Smith's Fork near Border, Wyoming	122	107	Apr-Sept	148	152	78	114(2
Bear River at Harer, Idaho	307	109	Apr-Sept	365	311	114	281
Little Bear River nr Paradise, Utah	53	120	Apr-Sept	45	38	40	44
Logan River near Logan, Utah (3)	156	117	Apr-Sept	142	155	99	133
Blacksmith Fork near Hyrum, Utah (4)	72	120	Apr-Sept	68	73	46	60
WEBER-OGDEN RIVERS							
Weber River near Oakley, Utah	148	116	Apr-Sept	153	145	98	128
Weber River near Coalville, Utah (5)	179	130	Apr-Sept	172*	136	97	138
Chalk Creek at Coalville, Utah	57	136	Apr-Sept	53	35	18.6	42

(1) Average runoff for 12 years, 1944-1955.
(2) Average runoff for 13 years, 1943-1955.
(3) Includes U.P. & L. Co. tailrace and Logan, Hyde Park & Smithfield Canal.
(4) Above Utah Power and Light Company's dam.
(5) Includes diversion by Weber-Provo canal and change in storage Wanship Reservoir.

* Revised from uncorrected figures given in March 1 & Apr. 1, 1958 repor

UTAH STREAMFLOW FORECASTS - MAY 1, 1958

BASIN, STREAM and STATION	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1958	% 15-Yr. Av.	Forecast Period	Measured Runoff 1957	1956	1955	15-Yr. Av. 1938-52
WEBER-OGDEN RIVERS							
East Canyon Creek nr Morgan, Utah (6)	41	140	Apr-Sept	28	16.9	14.1	29.2
South Fork Ogden River nr Huntsville, Utah	88	135	Apr-Sept	77	63	48	65
PROVO RIVER & UTAH LAKE							
Spanish Fork at Thistle, Utah	54	120	Apr-Sept	54	27.3	30	45
Hobble Creek near Springville, Utah	26	104	Apr-Sept	25.6	15.5	10.3	25(7)
Provo River at Vivian Park, Utah (8)	187	113	Apr-Sept	180*	133	109	166
American Fork River nr American Fork, Utah	49	136	Apr-Sept	33	32	26.4	36
JORDAN RIVER & SALT LAKE							
Little Cottonwood Creek nr Salt Lake City, Utah	45	112	Apr-Sept	38	37	34	40
Big Cottonwood near Salt Lake City	48	120	Apr-Sept	50	35	34	40
Parley's Creek near Salt Lake City, Utah	18	118	Apr-Sept	16	8.4	7.5	15.2
SEVIER RIVER							
Sevier River at Hatch, Utah	93	160	Apr-Sept	48	25.8	23.8	58(9)
Sevier River near Kingston, Utah	78	170	Apr-Sept	18.1	5.3	7.5	46

(6) Observed flow plus change in storage in East Canyon reservoir.
(7) For ten years 1946-1955.
(8) Observed flow plus flow at South Fork Provo River at Vivian Park, plus change in storage in Deer Creek reservoir, minus diversion thru Duchesne tunnel, minus diversion by Weber-Provo Canal, plus diversion thru Salt Lake Aqueduct.
(9) Average runoff for 15 years, 1940-1954.

* Revised from uncorrected figures given in March 1 and Apr. 1 reports.

UTAH STREAMFLOW FORECASTS - MAY 1, 1958

BASIN, STREAM and STATION	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1958	% 15-Yr. Av.	Forecast Period	Measured Runoff 1957	1956	1955	15-Yr Av. 1938-[illegible]
East Fork Sevier River nr Kingston, Utah(10)	39	135	Apr-Sept	19.7*	7.9	8.6	28.8
Sevier River below Piute Dam (11)	112	149	Apr-Sept	33	13.1	16.1	75
BEAVER RIVER							
Beaver River near Beaver, Utah	56	165	Apr-Sept	45	20.2	16.4	34
COAL CREEK							
Coal Creek near Cedar City, Utah	26	127	Apr-Sept	20.3	10.6	10.1	20.1
COLORADO RIVER BASIN							
UPPER GREEN RIVER							
Ashley Creek near Vernal, Utah	53	82	Apr-Sept	64	49	40	65
DUCHESNE RIVER							
Duchesne River near Tabiona, Utah (12)	128	105	Apr-Sept	135	121	89	122
Rock Creek near Mountain Home, Utah	95	87	Apr-Sept	124	111	80	109
Strawberry River at Duchesne, Utah	101	123	Apr-Sept	79	59	49	82
Lakefork River below Moon Lake, Utah(13)	66	86	Apr-Sept	82	82	58	77(13)
Uinta River near Neola, Utah	95	86	Apr-Sept	104	90	71	111
Whiterocks River near Whiterocks, Utah	63	88	Apr-Sept	70	54	47	72

(10) Observed flow plus change in storage in Otter Creek Reservoir
(11) Observed flow plus change in storage in Otter Creek and Piute Reservoirs.
(12) Observed flow plus diversion through Duchesne tunnel.
(13) Observed flow plus change in storage in Moon Lake reservoir. Average runoff for 14 years, 1942-1955.
* Revised from uncorrected figures given in March 1 & Apr 1, 1958 report.

UTAH STREAMFLOW FORECASTS - MAY 1, 1958

BASIN, STREAM and STATION	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1958	% 15-Yr. Av.	Forecast Period	Measured Runoff 1957	1956	1955	15-Yr. Av. 1938-5
PRICE RIVER							
Price River near Scofield, Utah (14)	58	135	Apr-Sept	56*	28.7	26.6	43
Price River near Heiner, Utah (14)	121	157	Apr-Sept	94*	48	45	77
SAN RAFAEL RIVER							
Huntington Creek near Huntington, Utah	82	132	Apr-Sept		44	36	62
Cottonwood Creek near Orangeville, Utah	89	139	Apr-Sept		41	35	64
Ferron Creek near Ferron, Utah	74	176	Apr-Sept		31	25.6	42(15)
VIRGIN RIVER							
Virgin River at Virgin, Utah	84	140	Apr-June		32	23.6	60

(14) Observed flow plus change in storage in Scofield reservoir.
(15) Average runoff for 8 years, 1948-1955.

* Revised from uncorrected figures given in March 1 & Apr. 1, 1958 repo

STATUS OF UTAH RESERVOIR STORAGE - MAY 1, 1958 (1)

BASIN and/or STREAM	RESERVOIR	USABLE CAPACITY 1000s AF	USABLE STORAGE - 1000 ACRE FEET 1958	1957	1956	15-Yr. Av. 1938-52
		GREAT BASIN				
Bear River	Bear Lake	1421.0	1102.	946.0	822.3	825.0
Little Bear	Hyrum	15.3	11.5	15.3	15.6	14.6(2)
Ogden	Pineview	110.0	19.3	17.8	32.9	32.1
Weber	Wanship	59.1	21.4	- -	- -	- -
	Echo	73.9	51.1	43.7	53.9	54.7
	East Canyon	28.7	25.1	24.7	20.2	24.7
Provo	Deer Creek	144.7	96.1	83.3	93.7	81.3(3)
Spanish Fork	Strawberry	270.0	166.4	147.2	169.9	115.5
Utah Lake	Utah Lake	1149.0(4)	710.7	520.8	581.2	587.0
Sevier River	Otter Creek	52.5	48.1	18.0	20.6	46.2
	Piute	74.0	65.7	16.6	13.6	63.3
	Sevier Bridge	236.0	125.4	62.1	70.6	173.8
Beaver River	Rocky Ford	23.3	18.0	8.2	9.1	18.6
		COLORADO RIVER DRAINAGE				
Lake Fork	Moon Lake	35.8	29.5	9.4	12.3	17.4
Price River	Scofield	65.8	40.0	9.3	14.2	21.8

(1) All data contained in this table supplied by U. S. Geological Survey, except Wanship Reservoir & Moon Lake by U. S. Bureau of Reclamation.
(2) Average for 1939-53.
(3) Average for 1942-55.
(4) Active capacity taken at 3.1 feet above compromise point.

* Estimate

APRIL PRECIPITATION DATA

(Measured at or near Snow Courses) (1)

DRAINAGE BASIN and RAINGAGE LOCATION	Elev.	April Precipitation from date of Apr. 1 Snow Survey to Approximately May 1					
		Date of Read. 1958	Precipitation: 1958 (In.)	Past Record: 1957 (In.)	1956 (In.)	Yrs. of Record	Av. for Record Period (In.)
GREAT BASIN DRAINAGE							
Bear River above Harer, Idaho							
Trial Lake *	9800	4/28	3.40	5.60	2.50	6	3.05
Stillwater Camp	8550	4/30	1.50	4.60	--	1	4.6
Bear River below Harer, Idaho							
Willow Flat	6100	4/29	3.95	6.45	1.80	2	4.12
Klondike Narrows	7400	4/29	4.95	4.30	2.15	3	3.54
Dry Bread Pond	8230	5/2	2.53	6.60	0.60	5	3.04
Little Bear (upper)	6850	5/1	4.08	5.80	--	1	5.80
Ogden River							
Dry Bread Pond	8230	5/2	2.53	6.60	0.60	5	3.04
Sagebrush Flat	6300	5/2	1.29	4.30	1.30	2	2.80
Ben Lomond (lower)	6000	5/1	4.74	6.00	1.60	3	4.03
Weber River							
Trial Lake *	9800	4/28	3.40	5.60	2.50	6	3.05
Smith & Morehouse	7600	4/29	2.15	5.20	1.80	3	3.30
Chalk Creek #2	8200	4/25	3.30	--	1.20	5	1.95
Silver Lake(Brighton)*	8725(2)	5/1	6.44	6.42	3.92	27**	3.89
Parley's Canyon Smt.	7500	5/2	5.38	6.20	2.80	5	4.66
Mt. Dell Dam* (2)	5500	5/1	3.78	5.15	1.80	23**	2.75

(1) Precipitation from non-recording raingages located on or near snow course and measured monthly, except that supplied by U. S. Weather Bureau, which was measured daily, as noted.

(2) Data measured daily and supplied by U. S. Weather Bureau. Mt. Dell Dam data figured from date of Lamb's Canyon snow survey.

* Adjacent Drainage.

** Period of Snow Surveys.

APRIL PRECIPITATION DATA

(Measured at or near Snow Courses) (1)

DRAINAGE BASIN and RAINGAGE LOCATION	Elev.	April Precipitation from Date of April 1 Snow Survey to Approximately May 1: Date of Read. 1958	Precipitation 1958 (In.)	Past Record: 1957 (In)	1956 (In)	Yrs. of Record	Av. for Record Period (In.)
Provo River and Utah Lake							
Trial Lake	9800	4/28	3.40	5.60	2.50	6	3.05
Soapstone R. S.	7800	4/28	3.10	4.70	2.00	3	3.06
Daniels Strawberry Smt.	8000	4/30	2.50	4.70	2.10	3	2.75
Strawberry Reservoir-East Portal (2)	7606			2.17	2.17	11	1.99
Hobble Creek Summit	7300	4/28	3.75	3.40	2.70	3	2.26
Clear Creek Ridge #2	8000	4/25	2.77	4.10	1.20	2	1.95
Payson Ranger Sta.	8050	4/24	4.16	6.10	2.80	3	3.83
Timpanogas Divide (2)	8200	4/29	4.05	4.40	3.05	19	3.66
Dutchman R. S.	7500	5/6	4.72	3.40	2.90	2	3.15
Jordan River and Great Salt Lake							
Silver Lake(Brighton)3)	8725	5/1	6.44	6.42	3.92	27**	3.89
Mt. Dell Dam (3)	5500	5/1	3.78	5.15	1.80	23**	2.75
Parley's Canyon Smt.	7500	5/2	5.38	6.20	2.80	5	4.66
Farmington Rice (4)	7000	5/1	5.54	6.92	3.32	18	4.91
Farmington Flats (4)	7500	5/1	6.18	8.90	2.96	5	5.52
Middle Canyon-Tooele	7000	5/1	4.88	8.70	--	1	8.70
Sevier River above Richfield							
Webster Flat *	9200	4/29	3.10	7.00	2.70	6	3.05
Duck Creek R. S.	8560	5/5	4.65	3.20	1.70	5	1.86
Castle Valley	9700	5/5	3.58	6.10	--	1	6.10
Panguitch Lake (5)	8200	5/5	1.15	1.70	--	5	1.02
Widtsoe-Escalante #2	9500	4/29	3.18	5.10	1.90	2	3.50
Widtsoe R. S. (5)	7600	4/29	1.10	2.10	0.75	19**	1.00
Box Creek	9800	4/23	4.25	6.10	2.00	2	4.05
Kimberly Mine(upper)	8900	4/24	5.06	10.15	--	1	10.15

(1) Precipitation from non-recording raingages located on or near snow course and measured monthly, except that supplied by U.S. Weather Bureau, which was measured daily, as noted.
(2) Data measured monthly, supplied by U. S. Weather Bureau.
(3) Data measured daily and supplied by U.S. Weather Bureau. Mt. Dell Dam data figured from date of Lamb's Canyon Snow survey.
(4) Data supplied by U. S. Forest Service.
(5) U.S. Weather Bureau raingage measured by SCS personnel.
* Adjacent drainage.
** Period of Snow Surveys.

APRIL PRECIPITATION DATA

(Measured at or near Snow Courses) (1)

DRAINAGE BASIN and RAINGAGE LOCATION	Elev.	April Precipitation from Date of April 1 Snow Survey to Approximately May 1					
		Date of Read. 1958	Precipitation 1958 (In.)	Past Record 1957 (In.)	Past Record 1956 (In.)	Years of Record	Av. for Record Period (In.)
Sevier River below Richfield including San Pitch River							
Farnsworth Lake	9900	4/25	4.95	11.20	2.00	2	6.60
Gooseberry R.S. (2)	7800	4/25	2.93	7.65	--	10**	3.17
Gooseberry Reservoir	8700	5/1	4.32	4.85	1.80	4	2.58
GBRC Meadows (3)	10000	5/6	5.16	5.61	3.91	22	3.62
GBRC Hdqrts. (3)	8700	5/6	4.15	3.81	4.00	27**	3.38
GBRC Oaks (3)	7655	5/6	2.05	2.77	2.95	32	2.01
Beaver Dams	8000	4/30	2.13	4.70	1.60	2	3.15
Pine Creek	8700	4/25	5.79	4.00	--	1	4.0
Beaver River							
Big Flat	10000	4/25	5.25	6.00	--	4	3.05
Beaver Canyon P.H.(4)	7275	5/1	1.54	6.43	2.23	18	2.17
Parowan Creek							
Yankee Reservoir	8700	4/28	2.88	6.25	--	1	6.25
Coal Creek							
Webster Flat *	9200	4/29	3.10	7.00	2.70	6	3.05

(1) Precipitation from non-recording raingages located on or near snow course and measured monthly, except that supplied by U.S. Weather Bureau, which was measured daily, as noted.
(2) U.S. Weather Bureau raingage measured by SCS personnel.
(3) Data supplied by U. S. Forest Service.
(4) Data measured daily and supplied by U.S. Weather Bureau. Data figured from date of Merchant Valley snow survey.

* - Adjacent Drainage.

** - Period of Snow Surveys.

APRIL PRECIPITATION DATA

(Measured at or near Snow Courses) (1)

DRAINAGE BASIN and RAINGAGE LOCATION	Elev.	April Precipitation from Date of April 1 Snow Survey to Approximately May 1					
		Date of Read. 1958	Precip-itation: 1958 (In.)	Past Record: 1957 (In.)	1956 (In.)	Years of Record	Av. for Record Period (In.)
COLORADO RIVER DRAINAGE							
Upper Green River							
King's Cabin (Upper)	8800	4/29	1.9	2.60	1.35	6	1.81
Duchesne River							
Trial Lake *	9800	4/28	3.40	5.60	2.50	6	3.05
Soapstone R. S. *	7800	4/28	3.10	4.70	2.00	3	3.06
Daniels-Strawberry Summit *	8000	4/30	2.50	4.70	2.10	3	2.75
Strawberry Reservoir-East Portal * (2)	7560			2.17	2.17	11	1.99
White River #1 *	8600	4/29	1.90	3.50	--	1	3.50
Currant Creek	7800	5/2	2.50	2.52	1.25	2	1.88
Rock Creek	7900	5/1	1.55	0.95	1.65	2	1.30
Moon Lake (2)	8150			1.65	1.60	22	1.30
Lakefork Mountain	10500	4/30	3.5	3.25	2.50	4	1.78
Paradise Park	10500	4/28	2.30	3.30	1.50	3	1.93
Price River							
Gooseberry Reservoir	8700	5/1	4.32	4.85	1.80	4	2.58
Clear Creek Ridge #2 *	8000	4/25	2.77	4.10	1.20	2	2.65
Mud Creek #2	8300	5/1	1.90	3.30	--	1	3.30
Clear Creek (3)	8300	5/1	1.92	4.23	1.37	22	1.94
White River #1	8600	4/28	1.9	3.50	--	1	3.50

(1) Precipitation from non-recording raingages located on or near snow course and measured monthly, except that supplied by U. S. Weather Bureau, which was measured daily, as noted.
(2) Data measured monthly, supplied by U. S. Weather Bureau.
(3) Data measured daily and supplied by U. S. Weather Bureau.

* Adjacent drainage.

APRIL PRECIPITATION DATA

(Measured at or near Snow Courses) (1)

DRAINAGE BASIN and RAINGAGE LOCATION	Elev.	April Precipitation from Date of April 1 Snow Survey to Approximately May 1					
		Date of Read. 1958	Precipitation: 1958 (In.)	Past Record: 1957 (In.)	1956 (In.)	Years of Record	Av. for Record Period (In.)
San Rafael River							
Gooseberry Reservoir *	8700	5/1	4.32	4.85	1.80	4	2.58
Stuart Ranger Sta.	7950	4/30	1.80	3.40	0.65	3	1.52
Red Pine Ridge	9400	5/2	4.30	5.90	2.20	3	4.28
GBRC Meadows * (4)	10000	5/6	5.16	5.61	3.91	22	3.62
Buck Flat	9400	5/1	1.60	6.50	1.90	2	4.21
Fremont River							
Farnsworth Lake *	9900	4/25	4.95	11.20	2.00	2	6.60
Black's Flat-U.M.Crk.	9250	4/22	2.98	6.45	1.10	2	3.77
Escalante River							
Widtsoe-Escalante #2	9500	4/29	3.18	5.10	1.90	2	3.50
Virgin River							
Duck Creek R. S.	8560	5/6	4.65	3.20	1.70	5	1.86
Webster Flat	9200	4/29	3.10	7.00	2.70	6	3.05
Lower Colorado River (Southeastern Utah)							
Buckboard Flat	9000	5/1	6.30	4.55	1.25	2	2.90

(1) Precipitation from non-recording raingages located on or near snow cours and measured monthly, except that supplied by U. S. Weather Bureau, whic was measured daily, as noted.

(4) Data supplied by U. S. Forest Service.

* Adjacent drainage.

UTAH SNOW SURVEY - ABOUT MAY 1, 1958

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1957	1956	1938-52 Av.	Prior Yrs. of Record
GREAT BASIN DRAINAGE									
BEAR RIVER above Harer, Idaho									
Trial Lake x	10J8	9800	4/28	74	30.2	34.3	37.5	30.7**	10
Hayden Fork	10J7	9300	4/28	41	17.3	21.8	17.0	--	4
Stillwater Camp	10J17	8550	4/28	23	9.6	13.0	4.0	--	3
Goodman Ranch	10J6	7900	4/28	T	T	4.6	0.0	--	3
Monte Cristo R.S.	11H12	8960	5/2	66	30.6	31.4	24.5	26.8**	7
Poison Meadows x	10G6	8500	5/5	75	31.7	36.8	40.0	--	2
Piney LaBarge x	10G10	8820	5/6	40	17.5	25.6	18.6	13.9	21
Big Park	10G11	8700	5/4	53	21.7	25.1	23.3	21.9**	6
Kelly R. S.	10G12	8200	5/4	42	16.4	20.3	18.0	--	2
Salt River Summit x	10G8	7900	4/30	38	15.4	17.7	6.9	9.6**	5
CCC Camp x	10G7	7500	4/30	26	10.4	13.3	T	5.5**	8
BEAR RIVER below Harer, Idaho									
Garden City Summit	11H7	7900	4/30	51	22.0	20.6	10.1	13.8**	6
Strawberry Mink Div.	11G10	6800	4/29	56	26.0	19.9	6.1	--	2
Strawberry Creek	11G9	5800	4/29	19	8.5	0.0	0.0	--	2
Christensen Ranch	11G11	5600	4/30	0.0	0.0	0.0	0.0	--	2
Willow Flat	11G4	6100	4/29	15	7.2	6.4	0.0	--	2
Cub River R. S.	11G12	5400	4/29	0.0	0.0	0.0	0.0	--	2
Franklin Basin R. S.	11G8	8200	4/29	77	35.0	37.2	--	--	2
Klondike Narrows	11H1	7400	4/29	47	21.9	18.4	9.8	--	3
Tony Grove R. S.	11H3	6250	4/30	7	3.3	0.0	0.0	--	2
Mt. Logan	11H6	9000	5/1	83	35.7	39.4	28.6	26.4*	31
Spring Hollow (upper)	11H5	8000	5/1	74	29.5	31.4	24.6	23.4*	31
Spring Hollow (lower)	11H4	7000	5/1	25	10.9	11.6	--	7.3*	18
Monte Cristo R.S.	11H12	8960	5/2	66	30.6	31.4	24.5	26.8**	7
Dry Bread Pond x	11H13	8230	5/2	43	18.8	21.2	8.0	14.6**	7
Beaver Crk-Skunk Crk x	11H14	7150	5/2	16	6.7	6.8	0.0	4.6**	6
Little Bear (upper)	11H25	6850	5/1	11	3.9	0.0	--	--	1
Little Bear (lower)	11H26	6100	5/1	T	T	0.0	--	--	1
Oxford Mountain	12G3	6800	4/28	11	4.9	--	0.0	--	2
Dry Creek Flat	12G4	6350	4/28	0.0	0.0	--	0.0	--	2

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UTAH SNOW SURVEYS - ABOUT MAY 1, 1958

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In)	Water Content (In.)	Past Record Water Content (In.) 1957	1956	Prior 1938-52 Av.	Yrs. of Record
OGDEN RIVER									
Monte Cristo R.S.x	11H12	8960	5/2	66	30.6	31.4	24.5	26.8**	7
Dry Bread Pond	11H13	8230	5/2	43	18.8	21.2	8.0	14.6**	7
Beaver Crk-Skunk Crk	11H14	7150	5/2	16	6.7	6.8	0.0	4.6**	6
Sagebrush Flat	11H15	6300	5/2	0	0.0	0.0	--	--	3
Ben Lomond Peak	11H8	8000	5/1	96	46.0	33.5	21.6	29.8**	7
Ben Lomond (lower)	11H9	6000	5/1	30	13.7	0.0	0.0	--	4
Mt. Ogden	11H10	8600	4/29	100	46.5	31.0	20.8	27.1**	7
Snow Basin	11H11	6500	4/29	38	16.5	4.4	0.0	--	4
WEBER RIVER									
Trial Lake x	10J8	9800	4/28	74	30.2	34.3	37.5	30.7**	10
Smith & Morehouse	11J4	7600	4/29	28	12.0	12.6	0.0	5.7**	7
Redden Mine (upper)	11J5	9000	4/29	52	23.2	25.8	14.8	17.7**	7
Redden Mine (lower)	11J6	8500	4/29	48	21.2	24.0	14.7	15.6**	7
Beaver Creek R.S.	11J24	7500	4/28	13	5.7	3.8	0.0	0.5**	7
Chalk Creek #1	11J1	9100	4/25	63	23.2	30.4	26.4	25.1**	7
Chalk Creek #2	11J2	8200	4/25	38	12.7	19.4	7.8	11.6**	7
Chalk Creek #3	11J3	7500	4/25	13	3.3	7.7	0.0	1.3**	6
Silver Lake x	11J16	8725	4/28	79	31.3	29.9	28.1	26.2**	7
Parley's Cayn.Summit	11J15	7500	5/2	43	19.2	17.8	3.1	10.4**	7
Lamb's Canyon	11J14	6600	4/29	44	16.8	5.8	0.0	5.4**	7
PROVO RIVER & UTAH LAKE									
Trial Lake	10J8	9800	4/28	74	30.2	34.3	37.5	30.7**	10
Soapstone R. S.	11J25	7800	4/28	32	13.1	13.1	Patchy	4.3**	8
Daniels-Strawby Smt.	11J23	8000	4/30	30	11.7	14.2	0.0	7.8**	6
Hobble Creek Summit	11J22	7300	4/28	27	11.1	9.1	0.0	--	3
Packard Canyon	11J31	6400	4/28	6	2.1	0.0	0.0	--	1
Clear Creek Ridge #1	11K21	9200	4/25	52	21.6	24.0	13.8	--	3
Clear Creek Ridge #2	11K22	8000	4/25	35	13.9	14.8	4.7	--	3
Clear Creek Ridge #3	11K23	6600	4/25	3	1.1	0.0	0.0	--	3
Payson R. S.	11K1	8050	4/24	52	22.1	22.5	4.8	--	4
Rock Bridge	11K2	6750	4/24	32	12.2	7.3	0.0	--	3
Dutchman R. S.	11J17	7500	4/30	50	22.4	11.6	Patchy	--	3
Timpanogas Divide	11J21	8200	4/29	65	28.5	23.4	17.8	18.8*	17
Camp Altamont	11J20	7300	4/29	38	16.2	8.2	0.0	7.2**	5

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UTAH SNOW SURVEYS - ABOUT MAY 1, 1958

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1958 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1957	1956	Prior 1938-52 Yrs. Av.	Recor
JORDAN RIVER & GREAT SALT LAKE									
Silver Lake	11J16	8720	4/28	79	31.3	29.9	28.1	26.2**	7
Mill D. South Fork	11J10	7400	4/28	67	28.6	11.6	Patchy	11.1**	6
Lamb's Canyon	11J14	6600	4/29	44	16.8	5.8	0.0	5.4**	7
Parley's Cnyn. Sumt.	x11J15	7500	5/2	43	19.2	17.8	3.1	10.4**	7
Farmington Canyon (upper)	11J11	8000	4/30	93	38.9	33.7	20.9	29.8**	7
Farmington Canyon (lower)	11J12	6950	4/30	65	28.4	19.5	3.4	17.5**	7
Rocky Basin-Settlement Canyon	12J1	8900	4/30	74	33	35.6	15.8	--	4
Bevan's Cabin	12J2	6450	4/30	16	6.5	2.4	0.0	--	2
Middle Canyon	12J3	7000	5/1	31	13.8	15.4	0.0	--	4
SEVIER RIVER above RICHFIELD									
Cedar Breaks	12M1	10390	4/29	77	30.1	27.1	17.3	18.4**	6
Midway Valley	12M2	9400	4/29	82	32.1	26.8	17.4	--	4
Duck Creek R. S.	12M4	8560	5/5	35	13.0	9.5	0.0	5.0**	7
Harris Flat R. S.	12M5	7700	5/5	7	2.3	T	0.0	0.0**	6
Long Valley Junction	x12M6	7500	5/5	T	T	0.0	0.0	--	4
Castle Valley	12M13	9700	5/5	36	14.0	11.7	--	0.0	1
Panguitch Lake	12M7	8200	5/5	T	T	0.0	0.0	0.0	5
Widtsoe-Escalante Smt.	11M1	9500	4/29	24	8.7	4.2	0.0	1.1**	5
Widtsoe-Escalante #2	11M2	9500	4/29	38	13.9	7.8	2.9	3.3**	5
Fish Lake x	11L3	8700	4/23	30	10.5	8.1	Patchy	--	2
Box Creek	12L4	9800	4/23	51	18.7	17.2	9.4	--	2
Squaw Springs	12L5	9300	4/23	29	9.3	7.4	0.0	--	2
Big Flat x	12L7	10000	4/25	84	32.5	26.6	21.0	20.6**	6
Kimberly Mine (upper)	12L6	8900	4/24	51	20.4	21.8	--	--	2
SEVIER RIVER below RICHFIELD including SAN PITCH RIVER									
Farnsworth Lake	11L1	9900	4/25	67	25.9	29.9	16.7	18.8**	5
Gooseberry R. S.	11L2	8400	4/25	36	14.0	17.2	Patchy	6.3**	5
Huntington-Horseshoe	x11K5	9800	5/1	86	39.3	33.6	17.6	24.3**	7
Gooseberry Reservoir	x11K4	8700	5/1	50	21.3	25.5	12.5	18.4**	10

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SEVIER RIVER below RICHFIELD (Including SAN PITCH RIVER - Continued									
GBRC Meadows	11K10	10000	4/28	86	35.9	37.0	24.4	29.6**	6
GBRC Headquarters	11K11	8700	4/28	53	20.9	25.0	9.9	14.7**	6
Middle Fork	11K34	9600	4/29	82	33.3	33.4	22.1	--	2
Thistle Flat	11K35	8500	4/29	46	18.6	21.2	7.9	--	2
Mt. Baldy R. S.	11K12	9500	4/30	79	32.7	32.9	21.6	22.6**	5
Beaver Dams	11K13	8000	4/30	28	12.0	11.3	0.0	4.9**	5
Pine Creek	12L1	8700	4/25	46	19.8	28.2	--	--	1
BEAVER RIVER									
Big Flat	12L7	10000	4/25	84	32.5	26.6	21.0	20.6**	6
Otter Lake	12L8	9300	4/25	63	23.0	20.7	15.1	15.4**	6
Merchant's Valley	12L9	8200	4/25	39	12.9	10.2	0.0	3.8**	6
PAROWAN CREEK									
Yankee Reservoir	12M11	8700	4/28	31	10.7	10.6	4.7	--	3
Ed Ward Flat	12M12	8300	4/28	19	6.9	2.4	0.0	--	3
COAL CREEK									
Cedar Breaks x	12M1	10390	4/29	77	30.1	27.1	17.3	18.4**	6
Midway Valley x	12M2	9400	4/29	82	32.1	26.8	17.4	--	4
Webster Flat	12M3	9200	4/29	54	23.3	17.4	3.3	10.5**	6
Urie Flat	12M10	8450	4/29	14	5.9	0.0	0.0	--	3
COLORADO RIVER DRAINAGE									
UPPER GREEN RIVER IN UTAH									
King's Cabin (Upper)	9J1	8800	4/29	30	9.2	7.7	6.6	5.8**	6
King's Cabin (lower)	9J2	8600	4/29	24	7.5	6.7	3.5	4.2**	6
DUCHESNE RIVER									
Trial Lake x	10J8	9800	4/28	74	30.2	34.3	37.5	30.7**	10
Soapstone R. S. x	11J25	7800	4/28	32	13.1	13.1	Patchy	4.3**	8
Daniels-Strawberry Summit x	11J23	8000	4/30	30	11.7	14.2	0.0	7.8**	6
White River #1 x	10K2	8600	4/28	36	13.2	17.2	9.4	--	2
Indian Canyon	10K1	9100	4/30	34	9.4	--	5.3	--	3

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DUCHESNE RIVER - Continued									
Lakefork Mountain	10J10	10500	4/30	46	13.0	12.5	13.1	11.8**	6
Lakefork Mountain #2	10J11	8900	4/30	17	6.1	2.1	0.0	--	4
Lakefork Mountain #3	10J12	8100	4/30	2	0.6	0.9	0.0	--	4
Paradise Park	9J3	10500	4/28	47	12.8	12.6	14.2	--	4
Mosby Mtn. (lower)	9J5	9500	4/28	43	11.9	8.9	10.5	--	4
Currant Creek	11J32	7800	5/2	13	5.2	0.0	0.0	--	2
PRICE RIVER									
Huntington-Horseshoe	11K5	9800	5/1	86	39.3	33.6	17.6	24.3**	7
Gooseberry Reservoir	11K4	8700	5/1	50	21.3	25.5	12.5	18.4**	10
Dry Valley Divide	11K8	7800	5/1	20	7.5	9.3	--	--	2
Mud Creek #2	11K33	8300	5/1	33	11.7	14.8	--	--	1
White River #1	10K2	8600	4/28	36	13.2	17.2	9.4	--	2
White River #2	11K24	7600	4/29	T	T	5.8	0.0	--	2
White River #3	11K25	7400	4/29	-0	0	1.8	0.0	--	2
SAN RAFAEL RIVER									
Huntington-Horseshoe	11K5	9800	5/1	86	39.3	33.6	17.6	24.3**	7
Gooseberry Reservoir	x11K4	8700	5/1	50	21.3	25.5	12.5	18.4**	10
Switchback	11K26	8600	4/30	47	20.3	22.2	8.1	--	3
Stuart R. S.	11K27	7950	4/30	17	5.7	6.9	0.0	--	3
Red Pine Ridge	11K28	9400	5/2	52	21.1	25.9	7.4	--	3
Joe's Valley	11K29	8800	5/2	24	8.0	11.1	--	--	1
Seeley Creek R.S.#2	11K9	10000	4/28	65	26.1	25.9	12.1	17.0**	5
Buck Flat	11K31	9400	5/1	60	24.1	26.4	12.6	--	2
Rush Pond	11K38	9800	5/1	48	16.4	20.8	8.7	--	2
Wrigley Creek	11K32	9000	5/1	35	11.7	12.7	0.0	--	3
MUDDY RIVER									
Mt. Baldy R.S. x	11K12	9500	4/30	79	32.7	32.9	21.6	22.6**	5
FREMONT RIVER									
Farnsworth Lake x	11L1	9900	4/25	67	25.9	29.9	16.7	18.8**	5
Fish Lake	11L3	8700	4/23	30	10.5	8.1	Patchy	--	2
Johnson Valley	11L6	8850	4/22	26	8.2	9.0	0.0	--	2
Black's Flat-U.M.Crk.	11L4	9250	4/22	43	15.8	12.9	7.1	--	2

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ESCALANTE RIVER									
Widtsoe-Escalante Smt.	11M1	9500	4/29	24	8.7	4.0	0.0	1.1**	5
Widtsoe-Escalante #2x	11M2	9500	4/29	38	13.9	7.8	2.9	3.3**	5
VIRGIN RIVER									
Long Valley Juct.	12M6	7500	5/5	T	T	0.0	0.0	--	4
Harris Flat R.S. x	12M5	7700	5/5	7	2.3	T	0.0	0.0**	6
Duck Creek R.S. x	12M4	8560	5/5	35	13.0	9.5	0.0	5.0**	7
Midway Valley x	12M2	9400	4/29	82	32.1	26.8	17.4	--	4
Cedar Breaks x	12M1	10390	4/29	77	30.1	27.1	17.3	18.4**	6
Webster Flat	12M3	9200	4/29	54	23.3	17.4	3.3	10.5**	6

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AGENCIES COOPERATING IN UTAH SNOW SURVEYS

U. S. GOVERNMENT AGENCIES

U. S. Department of Agriculture
- SoilConservation Service
- Forest Service

U. S. Department of Commerce
- Weather Bureau

U. S. Department of the Interior
- Geological Survey
- National Park Service

STATE OF UTAH

Utah Agricultural Experiment Station
Utah State Engineer
- Little Bear River Commissioner
- Price River Commissioner
- Provo River Commissioner
- Sevier River Commissioner
- Spanish Fork River Commissioner
- Weber River Commissioner

Utah Water & Power Board

MUNICIPALITIES OR QUASI-MUNICIPALITIES

Salt Lake City Corporation

ORGANIZED PUBLIC AGENCIES

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

PRIVATE AGENCIES

Kaiser Steel Corporation