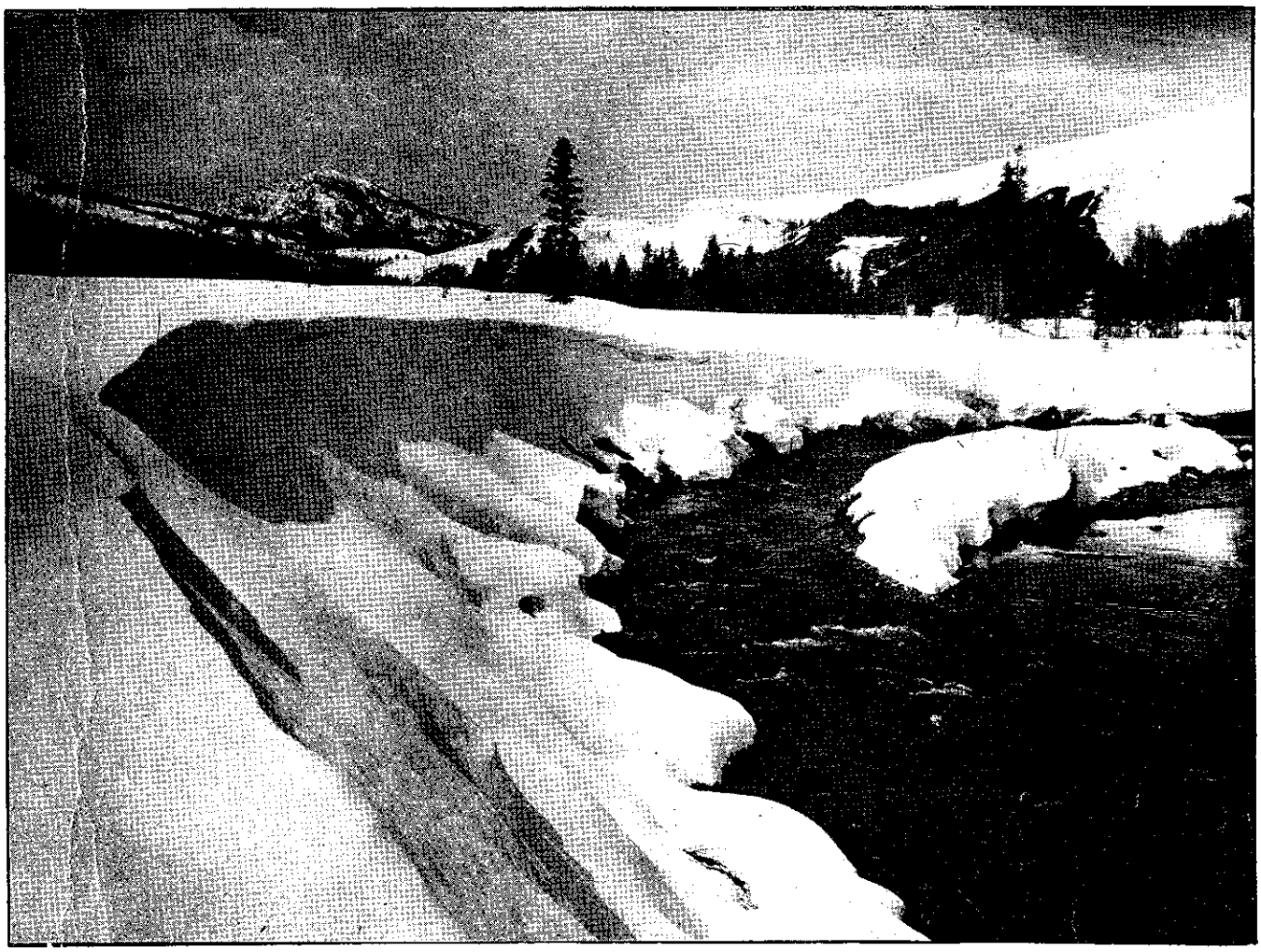

Federal-State Cooperative Snow Surveys and Water Supply Forecasts for UTAH

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
AND

STATE ENGINEER OF UTAH
UTAH AGRICULTURAL EXPERIMENT STATION
IN COOPERATION WITH

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

AS OF
JANUARY 1, 1955

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS and WATER SUPPLY FORECASTS

for

U T A H

JANUARY 1, 1955

Report Prepared
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WATER SUPPLY OUTLOOK

for UTAH

JANUARY 1, 1955

The water stored in the snow pack as measured near the first of January varied from 40% to 70% of average on most of the watersheds of the state. On the Logan River it was up to 80%. Soil moisture is generally below average on the water producing parts of the watersheds bedause of deficient October rains. Measurements at key gaging stations by the U. S. Geological Survey show that December streamflow was 80% of average. Both of these factors indicate additional withdrawals from the water of the snow pack, further reducing the water supply prospects for the coming season.

GENERAL OUTLOOK

With the exceptions of the Price River, the Sevier River south of Richfield and the Virgin River, the watersheds of the state all had less snow stored water on January 1 this year than they did a year ago. On these three streams, although snow water was above that of last year, it was still only 40% to 60% of average. Comparative averages for various watersheds of the state are given on Page 2.

Soil moisture is generally below average on the water producing parts of the watersheds because of deficient October rains. At lower elevations and on watersheds sloping steeply to the south, soil moisture is near average from November rains and melting snows.

Most years about 35% to 40% of the total snow pack 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, either up or down, as the winter's snow accumulates. However, if average water supplies are to be in prospect by the time runoff begins in the spring, the snow pack increase will have to be 130% to 140% of average for the balance of the season.

COMPARATIVE SNOW DATA

Summary of Snow Survey Data by Tributary Watersheds as of January 1, 1955

TRIBUTARY BASINS	No. of Courses Averaged	Years of Record	1955 Snow Water Expressed as Percent of 1954	1953	& Average
GREAT BASIN					
Logan River	5	3-30	95	131	80*
Weber River	5	1-19	72	-	65*
Salt Lake Area	6	1-19	64	-	60*
Provo River and Utah Lake	8	2-23	76	72	56*
Sevier River above Richfield	4	2-16	175	-	57*
San Pitch River	2	3-14	57	-	68*
COLORADO RIVER BASIN					
Duchesne-Strawberry Rivers	5	2-23	74	67	50*
Price River	3	9-15	392	129	42
Virgin River	3	1-2	167	-	40*

* Several of the snow courses used in calculating these averages have only been measured for a few years on January 1, but have 15 to 30 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 normally accumulates by January 1 on courses having such records, and that are similarly located as to elevation and exposure.

UTAH SNOW SURVEYS JANUARY 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	1955 Snow Depth (In.)	1955 Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
GREAT BASIN DRAINAGE									
Bear River above Harer, Idaho									
Salt River Summit (Wyo.)	10G8	7900	1/3	21.0	3.1	5.7	4.5	6.4	6
Bear River below Harer, Idaho									
Garden City Summit	11H7	8000	1/5	27.2	5.4	5.8	5.0	7.8	4
Franklin Basin (Idaho)	11G8	8200		N.S.		8.7	--	9.9	2
Klondike Narrows	11H1	7400	1/5	27.7	5.2	6.5	--	6.5	1
Tony Grove R. S.	11H3	6250	1/6	20.5	3.8	4.2	4.5	4.0	3
Mt. Logan	11H6	9000	1/4	41.7	9.4	8.7	6.0	10.5	30
Spring Hollow (upper)	11H5	8000	1/3	41.3	7.3	7.6	5.3	9.0	30
Spring Hollow (lower)	11H4	7000	1/3	30.8	5.1	5.1	3.8	5.6	29
Ogden River									
Mt. Ogden	11H10	8600	1/4	40.0	9.6	6.3	--	6.3	1
Snow Basin	11H11	6500	1/4	28.7	5.5	3.8	--	3.8	1
Weber River									
Smith & Morehouse	11J4	7600	1/3	23.1	3.5	4.5	--	4.5	1
Beaver Creek R. S.	11J24	7500	1/3	14.8	2.7	3.0	--	3.0	1
Silver Lake*	11J16	8725	1/3	46.1	7.0	8.5	7.3	10.3	19
Parley's Canyon Summit	11J15	7500	12/30	19.9	4.4	6.3	--	6.3	1
Lamb's Canyon*	11J14	6600	12/30	20.2	2.8	6.0	--	6.1	6
Provo River and Utah Lake									
Soapstone R. S.	11J25	7800	1/3	16.6	3.1	4.5	--	5.0	2
Daniels-Strawberry Summit	11J23	8000	12/29	12.9	2.4	3.5	3.7	5.1	23
Strawberry Divide	11J8	8000	12/31	25.6	5.1	5.0	5.7	8.6	15
East Portal	11J7	7560	12/31	13.7	1.8	2.1	4.3	4.7	16
Payson R. S.	11K1	8840	12/28	17.0	3.1	7.4	--	6.0	2
Rock Bridge	11K2	6750	12/28	12.0	1.7	5.3	--	5.3	1
Timpanogos Divide	11J21	8200	12/30	22.1	6.9	7.5	7.1	10.0	19
Camp Altamont	11J20	7300	12/29	13.7	4.3	5.3	5.7	7.0	19
South Fork R. S.	11J19	6100	1/3	21.5	3.2	3.7	3.9	4.6	13
Timpanogos Cave Camp	11J18	5500	1/3	9.9	2.0	1.4	--	2.8	10

*Adjacent Drainage
N.S. - No Survey

UTAH SNOW SURVEYS JANUARY 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	1955 Snow Depth (In.)	1955 Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
GREAT BASIN DRAINAGE									
Jordan River and Great Salt Lake									
Silver Lake	11J16	8720	1/3	46.1	7.0	8.5	7.3	10.3	19
Mill D. South Fork	11J10	7400	1/5	35.8	5.5	7.6	--	7.6	1
Lamb's Canyon	11J14	6600	12/30	20.2	2.8	6.0	--	6.1	6
Parley's Canyon Summit*	11J15	8000	12/30	19.9	4.4	6.3	--	6.3	1
Farmington Canyon (upper)	11J11	8000	12/29	21.1	4.8	9.3	--	9.3	1
Farmington Canyon (lower)	11J12	6950	12/30	18.5	3.8	6.8	8.9	8.3	3
Sevier River above Richfield									
Midway Valley	12M2	9400	12/27	23.1	3.9	--	--	--	
Duck Creek R. S.	12M4	8560	12/31	18.9	3.0	1.0	--	2.4	2
Harris Flat R. S.	12M5	7700	12/31	11.0	1.9	0.1	--	1.6	2
Long Valley Junction*	12M6	7500	12/31	3.4	0.5	0.0	--	0.0	1
Widtsoe-Escalante Summit	11M1	9500	1/3	18.6	3.2	2.2	4.1	3.1	16
Widtsoe-Escalante #2	11M2	9500	1/3	20.2	3.3	3.5	4.5	4.0	4
Sevier River below Richfield (including San Pitch River)									
G.B.R.C. Meadows	11K10	10000	12/30	28.7	6.5	12.1	--	10.7	3
G.B.R.C. Headquarters	11K11	8700	12/30	20.6	4.1	6.6	--	5.2	14
Coal Creek									
Midway Valley*	12M2	9400	12/27	23.1	3.9	--	--	--	
Webster Flat	12M3	9200	12/27	16.4	2.5	3.3	--	3.3	1
Urie Flat	12M10	8450	12/27	9.8	0.9	--	--	--	

*Adjacent Drainage

UTAH SNOW SURVEYS JANUARY 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	1955 Snow Depth (In.)	1955 Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
COLORADO RIVER DRAINAGE									
Duchesne River									
Soapstone R. S.*	11J25	7800	1/3	16.6	3.1	4.5	--	5.0	2
Daniels-Strawberry Summit*	11J23	8000	12/29	12.9	2.4	3.5	3.7	5.1	23
Strawberry Divide*	11J8	8000	12/31	25.6	5.1	5.0	5.7	8.6	15
East Portal*	11J7	7560	12/31	13.7	1.8	2.1	4.3	4.7	16
Indian Canyon	10K1	9100	12/30	10.0	1.7	3.7	3.2	4.3	15
Price River									
Mud Creek	11K6	8600	12/30	12.2	2.8	3.9	5.3	4.6	2
Clear Creek	11K18	8150	12/30	5.9	1.1	--	--	3.2	6
Staley Ranch	11K7	7600	12/30	6.1	1.0	T	2.8	2.7	9
Dry Valley Divide	11K8	7800	12/30	10.2	2.0	T	3.2	3.2	9
Indian Canyon	10K1	9100	12/30	10.0	1.7	3.7	3.2	4.3	15
Escalante River									
Widtsoe-Escalante Summit	11M1	9500	1/3	18.6	3.2	2.2	4.1	3.1	16
Widtsoe-Escalante #2	11M2	9500	1/3	20.2	3.3	3.5	4.5	4.0	4
Virgin River									
Long Valley Junction	12M6	7500	12/31	3.4	0.5	0.0	--	0.0	1
Harris Flat R. S.*	12M5	7700	12/31	11.0	1.9	0.1	--	1.6	2
Duck Creek R. S.*	12M4	8560	12/31	18.9	3.0	1.0	--	2.4	2
Midway Valley*	12M2	9400	12/27	23.1	3.9	--	--	--	
Webster Flat	12M3	9200	12/27	16.4	2.5	3.3	--	3.3	1

*Adjacent Drainage

INDEX OF SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
GREAT BASIN DRAINAGE					
Bear River above Harer, Idaho					
Hayden Fork (formerly Machine Crossing)	10J7	1	1S	9E	9300
Stillwater Camp	10J17	32	2N	10E	8550
Head of Bear River (Deadman)	10J5	15	2N	10E	8600
Goodman Ranch	10J6	19	3N	10E	7900
Monte Cristo R. S.	11H12	3	8N	4E	8960
Poison Meadows, (Wyoming)*	10G6	29	30N	116W*	8500
Snyder Basin R. S., (Wyoming)*	10G9	15	29N	114W*	8040
Piney LaBarge, (Wyoming)*	10G10	19	29N	114W*	8820
Big Park, (Wyoming)	10G11	7	27N	117W*	8700
Kelly Ranger Station, (Wyoming)	10G12	13	26N	118W*	8200
Salt River Summit, (Wyoming)*	10G8	32	29N	118W*	7900
Bear River below Harer, Idaho					
Garden City Summit	11H7	34	14N	4E	8000
Emigrant Summit, (Idaho)	11G6	21	12S[x]	42E[x]	7700
Emigration Canyon (mouth), Idaho	11G7	24	12S[x]	42E[x]	6500
Slug Creek Divide, (Idaho)	11G5	10&15	10S[x]	44E[x]	7300
Franklin Basin R. S., (Idaho)	11G8	1&12	16S[x]	41E[x]	8200
Klondike Narrows	11H1	10	14N	3E	7400
Tony Grove Lake	11H2	5	13N	3E	8200
Tony Grove Ranger Station	11H3	11	13N	3E	6250
Mt. Logan	11H6	3	11N	2E	9000
Spring Hollow (upper)	11H5	35	12N	2E	8000
Spring Hollow (lower)	11H4	26	12N	2E	7000
Monte Cristo R. S.	11H12	3	8N	4E	8960
Dry Bread Pond*	11H13	19	8N	4E	8230
Beaver Creek-Skunk Creek*	11H14	22	8N	3E	7150
Ogden River					
Monte Cristo R. S.*	11H12	3	8N	4E	8960
Dry Bread Pond	11H13	19	8N	4E	8230
Beaver Creek-Skunk Creek	11H14	22	8N	3E	7150
Sagebrush Flat	11H15	21	7N	3E	6300
Ben Lomond Peak	11H8	3	7N	1W	8000
Ben Lomond (lower)	11H9	1	7N	1W	6000
Mt. Ogden	11H10	5	5N	1E	8600
Snow Basin	11H11	32	6N	1E	6500

*Adjacent Drainage

[x]Uinta Base and Meridian

INDEX OF SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
GREAT BASIN DRAINAGE					
Weber River					
Trial Lake*	10J8	5	2S	9E	9800
Smith & Morehouse	11J4	25	1N	7E	7600
Redden Mine (upper)	11J5	1	2S	6E	9000
Redden Mine (lower)	11J6	1	2S	6E	8500
Beaver Creek R. S.	11J24	28	2S	7E	7500
Chalk Creek #1	11J1	17&20	2N	8E	8200
Chalk Creek #2	11J2	4	1N	8E	9100
Chalk Creek #3	11J3	7	2N	8E	7500
Silver Lake*	11J16	35	2S	3E	8725
Parley's Canyon Summit	11J15	9&10	1S	3E	7500
Lamb's Canyon*	11J14	19	1S	3E	6600
Provo River and Utah Lake					
Trial Lake	10J8	5	2S	9E	9800
Soapstone R. S.	11J25	9	3S	2E	7800
Daniels-Strawberry Summit	11J23	20	2S[x]	12W[x]	8000
Strawberry Divide	11J8	34&35	7S	6E	8000
East Portal	11J7	36	7S	6E	7560
Hobble Creek Summit	11J22	20	7S	5E	7300
Packard Canyon	11J31	21	7S	5E	6400
Clear Creek Ridge #1	11K21	18	11S	6E	9200
Clear Creek Ridge #2	11K22	9	11S	6E	8000
Clear Creek Ridge #3	11K23	27	10S	6E	6600
Payson Ranger Station	11K1	30	10S	3E	8050
Rock Bridge	11K2	14	10S	2E	6750
Dutchman R. S.	11J17	27	3S	3E	7500
Timpanogas Divide	11J21	33	4S	3E	8200
Camp Altamont	11J20	29	4S	3E	7300
South Fork R. S.	11J19	24	4S	2E	6100
Timpanogas Cave Camp	11J18	27	4S	2E	5500
Jordan River and Great Salt Lake					
Silver Lake	11J16	35	2S	3E	8720
Mill D. South Fork	11J10	18	2S	3E	7400
Lamb's Canyon	11J14	19	1S	3E	6600
Parley's Canyon Summit*	11J15	9&10	1S	3E	7500
Farmington Canyon (upper)	11J11	26	3N	1E	8000
Farmington Canyon (lower)	11J12	14	3N	1E	6950
Barnard Creek	11J13	34	3N	1E	8000
Rocky Basin-Settlement Canyon	12J1	30	4S	3W	8900
Bevan's Cabin	12J2				
Middle Canyon	12J3	8	4S	3W	7000

*Adjacent Drainage

[x]Uinta Base and Meridian

INDEX OF SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
GREAT BASIN DRAINAGE					
Sevier River above Richfield					
Cedar Breaks	12M1	2	37S	9W	10390
Midway Valley	12M2	26	37S	9W	9400
Duck Creek R.S.	12M4	11	38S	8W	8560
Harris Flat R.S.	12M5	24	38S	7W	7700
Long Valley Junction*	12M6	22	38S	6W	7500
Panguitch Lake	12M7	4&5	36S	7W	8200
Bryce Canyon	12M8	36	36S	4W	8000
Widtsoe-Escalante Summit	11M1	22	34S	1W	9500
Widtsoe-Escalante #2	11M2	22	34S	1W	9500
Fish Lake*	11L3	35	26S	1E	8700
Box Creek	12L4	33	26S	2W	9800
Squaw Springs	12L5	3	27S	2W	9300
Big Flat*	12L7	18	29S	4W	10000
Kimberly Mine (Upper)	12L6	11	27S	5W	8900
Sevier River below Richfield, Utah (including San Pitch River)					
Farnsworth Lake	11L1	27&33	23S	2E	9900
Gooseberry R.S.	11L2	32	23S	2E	8400
Huntington-Horseshoe*	11K5	12	14S	5E	9800
Gooseberry Reservoir*	11K4	25	13S	5E	8700
Mammoth R.S.-Cottonwood Creek	11K3	13&23	13S	5E	8800
G.B.R.C. Meadows	11K10	26&27	17S	4E	10000
G.B.R.C. Headquarters	11K11	21	17S	4E	8700
Mt. Baldy R.S.	11K12	19	19S	4E	9500
Beaver Dams	11K13	27	19S	3E	8000
Pine Creek	12L1	24	22S	4W	8700
Pine Creek-Chalk Creek	12L2	14	22S	4W	8500
Bear Canyon	12L3	17	22S	3W	7200
Beaver River					
Big Flat	12L7	18	29S	4W	10000
Otter Lake	12L8	1	29S	5W	9300
Merchants Valley	12L9	8&9	29S	5W	8200
Parowan Creek					
Yankee Reservoir	12M11	20	35S	8W	8700
Ed Ward Flat	12M12	17	35S	8W	8300

*On Adjacent Drainage

INDEX OF SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
GREAT BASIN DRAINAGE					
Coal Creek					
Cedar Breaks *	12M1	2	37S	9W	10390
Midway Valley*	12M2	26	37S	9W	9400
Webster Flat *	12M3	20	37S	9W	9200
Urie Flat	12M10	11	37S	10W	8450
Enterprise to New Harmony Drainage					
Long Flat	13M2	2	38S	14W	8200
Pine Valley*	13M1	3	40S	15W	9150
Rattlesnake Springs	13M3	1	38S	19W	6500
COLORADO RIVER DRAINAGE					
Upper Green River in Utah					
Hewinta R.S.	10J4	33	3N	13E	9500
Hole-in-the-Rock	10J1	13	2N	15E	9150
Middle Beaver Creek	10J2	31	3N	16E	8550
Hole-in-the-Rock R.S.	10J3	32	3N	16E	8300
King's Cabin (upper)	9J1	22	1S	21E	8800
King's Cabin (lower)	9J2	23&26	1S	21E	8600
Duchesne River					
Trial Lake*	10J8	5	2S	9E	9800
Soapstone R.S.*	11J25	9	3S	~~2E~~ 8E	7800
Daniels-Strawberry Summit*	11J23	20	2S[x]	12W[x]	8000
Strawberry Divide*	11J8	34&35	7S	6E	8000
East Portal*	11J7	36	7S	6E	7560
Indian Canyon	10K1	2	11S	10E	9100
Brown Duck Lake	10J9	2	2N[x]	6W[x]	10300
Lakefork Mountain	10J10	2&3	2N[x]	5W[x]	10500
Lakefork Mountain #2	10J11	17	2N[x]	4W[x]	8900
Lakefork Mountain #3	10J12	29	2N[x]	4W[x]	8100
Paradise Park	9J3	7	3N[x]	1E[x]	10500
Mosby Mountain (lower)	9J5	5	2N[x]	1E[x]	9500
Price River					
Huntington-Horseshoe	11K5	12	14S	5E	9800
Gooseberry Reservoir	11K4	25	13S	5E	8700
Mammoth R.S.-Cottonwood Creek*	11K3	13&23	13S	5E	8800

*Adjacent Drainage

[x]Uinta Base and Meridian

INDEX OF SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
COLORADO RIVER DRAINAGE					
Price River - Cont'd					
Mud Creek	11K6	4	14S	11W	8600
Staley Ranch	11K7	32	12S	7E	7600
Clear Creek	11K18	28	13S	7E	8150
Dry Valley Divide	11K8	20	12S	8E	7800
White River #1	10K2	11	10S	8E	8600
White River #2	11K24	9	10S	8E	7600
White River #3	11K25	30	10S	8E	7400
Indian Canyon*	10K1	2	11S	10E	9100
San Rafael River					
Huntington-Horseshoe	11K5	12	14S	5E	9800
Switchback	11K26	14	14S	6E	8600
Stuart R. S.	11K27	8&9	15S	7E	7950
Red Pine Ridge	11K28	5	16S	6E	9400
Middle Mountain	11K29	33	16S	6E	8750
Wilberg Ranch	11K30	17	17S	6E	7800
Seeley Creek R.S. #2	11K9	25	17S	4E	10000
Ferron Reservoir	11K31	23	19S	4E	9500
Wrigley Creek	11K32	27	19S	5E	9000
Muddy River					
Black Fork	11K14	34	20S	4E	9200
Dill's Camp	11K15	27	20S	4E	9200
Mt. Baldy R.S.*	11K12	19	19S	4E	9500
Fremont River					
Farnsworth Lake*	11L1	27&33	23S	2E	9900
Fish Lake	11L3	35	26S	1E	8700
Johnson Valley	11L6	24	25S	2E	8850
Black's Flat-U.M. Creek	11L4	33	24S	3E	9250
Donkey Reservoir	11L5	9	30S	4E	9800
Escalante River					
Widtsoe-Escalante Summit	11M1	22	34S	1W	9500
Widtsoe-Escalante #2*	11M2	22	34S	1W	9500

*Adjacent Drainage

INDEX OF SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
COLORADO RIVER DRAINAGE					
Virgin River					
Cedar Breaks*	12M1	2	37S	9W	10390
Midway Valley*	12M2	26	37S	9W	9400
Webster Flat	12M3	20	37S	9W	9200
Duck Creek R.S.*	12M4	11	38S	8W	8560
Harris Flat R.S.*	12M5	24	38S	7W	7700
Long Valley Junction	12M6	22	38S	6W	7500
Pine Valley	13M1	3	40S	15W	9150
Lower Colorado River (Southeastern Utah)					
LaSal Mountain	9L1	5	27S	24E	8800
Buckboard Flat	9M1	36	33S	22E	9000

*On Adjacent Drainage

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

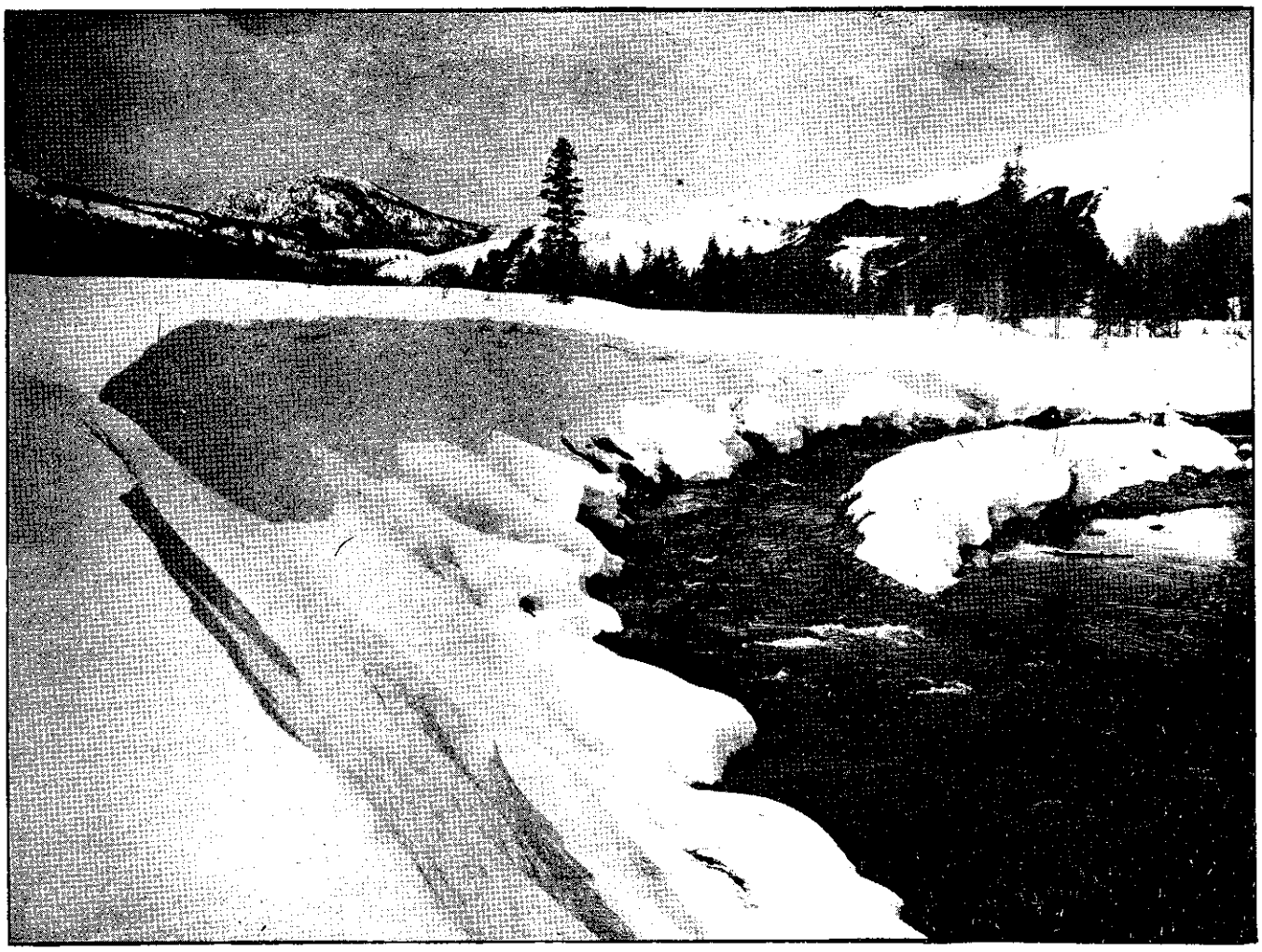
Utah Agricultural Experiment Station
Utah State Engineer
- Little Bear River Commissioner
- Price River Commissioner
- Provo River Commissioner
- Sevier River Commissioner
- Spanish Fork River Commissioner
- Weber River Commissioner

Municipalities or Quasi-Municipalities

Salt Lake City Corporation

Organized Public Agencies

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



Federal-State Cooperative Snow Surveys and Water Supply Forecasts for UTAH

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
AND

STATE ENGINEER OF UTAH
UTAH AGRICULTURAL EXPERIMENT STATION
IN COOPERATION WITH

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

AS OF

FEBRUARY 1, 1955

WATER SUPPLY OUTLOOK

for UTAH

FEBRUARY 1, 1955

For most of the State, January storms improved the water supply outlook over that expected a month ago. However, the snowpack is still only 65 to 85 percent of average on most watersheds. Only on the watersheds of the Virgin upper Sevier and Beaver Rivers in southern Utah, on the Whiterocks and Lakefork Rivers in the Uintah Basin and the American Fork River in northern Utah County, is the snow cover about average. In these areas the snow water increase during the month varied from 150 to 200 percent of average. Elsewhere in the State the increase varied from a low of 40 percent at the Soapstone Ranger Station on the Provo River to 175 percent at the Lamb's Canyon course near Salt Lake City. Holdover storage in 14 reservoirs is 44 percent of capacity and 58 percent of last year's storage at this time. Average storage for the ten years 1943-52 was 51 percent of capacity.

GENERAL OUTLOOK

Although January snow storms improved the water supply outlook over that existing a month ago, people in many areas of Utah and on the Bear River drainage of Idaho and Wyoming are still faced with the prospects of seriously deficient streamflow next summer.

Analysis shows that this month's storms generally produced heavier snowfall percentagewise along the western slopes of the mountains than on their eastern slopes or the next mountain range to the east. Similarly, increase in low elevation snows was relatively greater than that at the higher elevations.

Snow cover is 20 to 40 percent less than it was last year at this time on the streams of Cache Valley, So. Fork of the Ogden River, Weber River above Echo Dam, Provo River above Vivian Park, and on the Duchesne and Strawberry Rivers above Duchesne. Along the Wasatch Front from Ogden to Provo and on the headwaters of the Price, Huntington and San Pitch Rivers in Central Utah, it is within 90 to 115 percent of last year, while in southern Utah it varies from about 105 to 175 percent. Comparative averages for various watersheds of the State are shown on page 2.

Watershed soil moisture is deficient and will require more than the usual amount of snow water to saturate the soils before runoff begins next summer. U. S. Geological Survey reports that streamflow for January was 10 to 15 percent less than normal.

COMPARATIVE SNOW DATA

Summary of Snow Survey Data by Tributary Watersheds as of February 1, 1955

TRIBUTARY BASINS	No. of Courses Averaged	Years of Record	1955 Snow Water Expressed as Percent of 1954	1953	& Average
GREAT BASIN					
Bear River	5	6-30	61	61	67*
Logan River	6	1-30	68	72	72*
Blacksmith Fork	3	2-8	67	74	69*
Ogden River, So. Fork	2	2	69	76	70*
Weber River above Echo Dam	4	1-4	76	--	73*
East Canyon Creek	3	4-20	105	88	85*
Salt Lake Area	6	2-20	115	82	86*
Provo River above Vivian Park	3	4-24	66	--	65*
Utah Lake (other than Provo River)	7	1-24	93	96	83*
Sevier River above Richfield	8	1-17	143	--	106*
San Pitch River	4	4-16	90	--	78*
Coal Creek-Cedar City	1	3	103	133	94*
COLORADO RIVER BASIN					
Duchesne-Strawberry Rivers above Duchesne	5	4-24	80	87	70*
Lakefork River	3	2-4	105	129	106*
Whiterocks River	2	2	70	--	96*
Price River	6	4-19	90	79	70*
Huntington Creek	2	4	102	76	77*
Escalante River	2	4-17	175	156	132*
Virgin River	4	1-11	116	--	96*

*Several of the snow courses used in calculating these averages have only been measured for a few years on February 1, but have 15 to 30 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 normally accumulates by February 1 on courses having such records, and that are similarly located as to elevation and exposure.

STATUS OF RESERVOIR STORAGE FEBRUARY 1, 1955

BASIN and STREAM	RESERVOIR	USABLE CAPACITY (1000 OF ACRE FT.)	THOUSAND ACRE FEET IN STORAGE ABOUT FEBRUARY FIRST			
			1955	1954	1953	10-Yr.Avg. 1943 - 52
Bear River System						
Bear River	Bear Lake	1421.0	704.7	868.9	1007.2	803.1
Little Bear River	Hyrum	15.3	10.2	10.4	15.0	10.3
Weber-Ogden Rivers						
Ogden River	Pine View	43.6	5.1	0.7	11.9	6.5
Weber River	East Canyon	28.7	3.6	13.2	14.6	17.4
Weber River	Echo	73.9	14.3	30.1	40.2	26.8
Provo River & Utah Lake						
Provo River	Deer Creek	144.7	66.5	84.1	121.6	77.7
Spanish Fork River	Strawberry*	270.0	147.9	192.4	221.9	84.2
Utah Lake	Utah Lake*x	1149.0	529.5	734.6	945.2	543.6
Sevier River System						
Sevier River	Otter Creek	52.5	12.2	19.9	42.4	31.7
Sevier River	Piute	74.0	24.0	30.7	54.1	42.2
Sevier River	Sevier Bridge	236.0	72.7	133.4	187.6	155.6
Beaver River						
Beaver River	Rocky Ford	23.3	7.1	9.9	18.0	15.6
Duchesne River						
Lake Fork River	Moon Lake	35.8	9.2	10.3	17.6	13.5
Price River						
Price River	Scofield	65.8	9.1	32.0	46.1	13.1

* Figures for the Strawberry Reservoir obtained from the reports of the Spanish Fork River Commissioner. All other data contained in this table supplied by U.S.G.S.

x Active capacity taken at 3.1 feet above compromise point.

UTAH SNOW SURVEYS FEBRUARY 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
GREAT BASIN DRAINAGE									
Bear River above Harer, Idaho									
Salt River Summit (Wyo.)	10G8	7900	1/28	25.4	5.2	10.5	10.8	11.8	6
CCC Camp (Wyo.)*	10G7	7500	1/28	24.0	5.0	7.9	8.8	7.6	19
Bear River below Harer, Idaho									
Garden City Summit	11H7	8000	1/31	27.2	7.6	12.3	11.0	13.0	8
Franklin Basin (Idaho)	11G8	8200	2/2	47.8	11.1	16.1	--	16.1	1
Klondike Narrows	11H1	7400	2/2	38.5	8.1	11.7	--	11.7	1
Tony Grove R.S.	11H3	6250	1/31	23.3	5.6	8.1	7.5	7.2	6
Mt. Logan	11H6	9000	1/29	43.1	11.4	18.3	18.2	17.3	30
Spring Hollow (upper)	11H5	8000	1/29	45.7	10.9	15.2	15.3	14.3	30
Spring Hollow (lower)	11H4	7000	1/29	32.6	7.6	10.3	8.9	9.2	30
Dry Bread Pond	11H13	8230	2/1	33.5	8.3	11.3	10.6	11.0	2
Beaver Creek-Skunk Creek	11H14	7150	2/1	25.9	5.8	8.9	7.8	8.4	2
Ogden River									
Dry Bread Pond	11H13	8230	2/1	33.5	8.3	11.3	10.6	11.0	2
Beaver Creek-Skunk Creek	11H14	7150	2/1	25.9	5.8	8.9	7.8	8.4	2
Sagebrush Flat	11H15	6300	2/1	18.2	4.1	4.3	4.4	4.4	2
Mt. Ogden	11H10	8600	1/28	56.2	16.5	11.0	20.6	18.9	3
Snow Basin	11H11	6500	1/28	36.8	7.9	9.3	--	9.3	1
Weber River									
Smith & Morehouse	11J4	7600	2/1	24.5	5.8	5.9	--	5.9	1
Beaver Creek R.S.	11J24	7500	1/28	16.5	3.3	5.0	--	6.6	4
Chalk Creek #2	11J2	8200	1/31	27.8	6.7	9.8	--	9.8	1
Chalk Creek #3	11J3	7500	1/31	16.8	3.3	4.7	--	4.7	1
Silver Lake*	11J16	8725	1/31	40.0	12.4	12.0	14.5	15.1	20
Parley's Canyon Summit	11J15	7500	1/31	36.2	10.0	9.2	12.2	11.0	4
Lamb's Canyon	11J14	6600	1/30	33.8	8.5	8.2	8.9	9.4	9

*On Adjacent Drainage

UTAH SNOW SURVEYS FEBRUARY 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
GREAT BASIN DRAINAGE									
Provo River & Utah Lake									
Soapstone R.S.	11J25	7800	1/28	21.4	4.2	7.0	--	6.0	4
Daniels-Strawberry Summit	11J23	8000	2/1	31.9	7.0	9.7	7.6	9.4	24
East Portal	11J7	7560	1/28	24.9	5.4	6.2	9.0	8.3	19
Strawberry Divide	11J8	8000	1/28	38.9	10.2	10.0	11.6	13.5	19
Payson R.S.	11K1	8840	1/27	36.0	8.3	10.8	--	10.8	1
Rock Bridge	11K2	6750	1/27	26.2	5.7	6.9	--	6.9	1
Timpanogas Divide	11J21	8200	1/28	53.2	15.6	18.8	14.5	16.7	20
Camp Altamont	11J20	7300	1/28	43.8	11.9	12.4	10.3	12.0	20
South Fork R.S.	11J19	6100	1/27	25.5	6.5	4.9	6.2	6.4	17
Timpanogas Cave Camp	11J18	5500	1/27	14.5	3.6	1.7	0.0	4.3	12
Jordan River & Great Salt Lake									
Silver Lake	11J16	8720	1/31	40.0	12.4	12.0	14.5	15.1	20
Mill D. South Fork	11J10	7400	1/31	37.4	11.8	9.2	12.7	11.0	2
Parley's Canyon Summit	11J15	7500	1/31	36.2	10.0	9.2	12.2	11.0	4
Lamb's Canyon	11J14	6600	1/30	33.8	8.5	8.2	8.9	9.4	9
Farmington Canyon(upper)	11J11	8000	1/27	56.4	13.9	--	21.1	21.0	2
Farmington Canyon(lower)	11J12	6950	1/26	56.1	12.6	9.7	17.7	17.9	4
Middle Canyon	12J3	7000	1/27	29.6	7.9	9.4	--	9.4	1
Sevier River above Richfield									
Midway Valley	12M2	9400	2/1	44.8	12.8	--	--	--	
Duck Creek R.S.	12M4	8560	2/6	38.3	9.4	8.2	--	10.0	11
Harris Flat R.S.	12M5	7700	2/6	32.1	8.1	6.2	--	7.1	9
Long Valley Junction*	12M6	7500	2/6	19.8	5.3	--	--	6.6	3
Panguitch Lake	12M7	8200	2/5	16.7	4.0	2.6	--	5.2	2
Bryce Canyon	12M8	8000	1/31	22.6	5.0	1.2	5.2	4.3	6
Widtsoe-Escalante Summit	11M1	9500	2/4	30.4	7.4	3.6	4.4	5.5	17
Widtsoe-Escalante #2	11M2	9500	2/4	30.0	7.2	5.0	5.0	5.6	4
Big Flat*	12L7	10000		No Report		11.1	8.8	11.2	5
Sevier River below Richfield (including San Pitch River)									
Huntington-Horseshoe	11K5	9800	1/28	40.5	12.0	11.0	15.6	19.4	4
Gooseberry Reservoir	11K4	8700	1/28	32.7	8.9	9.3	12.0	14.4	4
G.B.R.C. Meadows	11K10	10000	1/31	43.9	10.9	15.0	--	18.4	4
G.B.R.C. Headquarters	11K11	8700	1/31	33.2	7.5	8.9	--	9.2	16

*On Adjacent Drainage

UTAH SNOW SURVEYS FEBRUARY 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	1955 Snow Depth (In.)	1955 Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
GREAT BASIN DRAINAGE									
Beaver River									
Big Flat	12L7	10000		No Report		11.1	8.8	11.2	5
Otter Lake	12L8	9300		No Report		8.6	7.7	9.1	5
Merchants Valley	12L9	8200	2/4	36.1	9.1	5.2	5.5	5.9	5
Coal Creek									
Midway Valley*	12M2	9400	2/1	44.8	12.8	--	--	--	
Webster Flat	12M3	9200	2/1	38.0	10.5	10.2	7.9	13.4	3
Urie Flat	12M10	8450	2/1	22.2	5.9		New Course		
COLORADO RIVER DRAINAGE									
Duchesne River									
Soapstone R.S.*	11J25	7800	1/28	21.4	4.2	7.0	--	6.0	4
Daniels-Strawberry Summit*	11J23	8000	2/1	31.9	7.0	9.7	7.6	9.4	24
Strawberry Divide*	11J8	8000	1/28	38.9	10.2	10.0	11.6	13.5	19
East Portal*	11J7	7560	1/28	24.9	5.4	6.2	9.0	8.3	19
Indian Canyon	10K1	9100	2/2	31.8	6.0	7.4	4.5	6.8	19
Lakefork Mountain	10J10	10500	1/31	28.0	7.4	6.8	5.8	8.4	4
Lakefork Mountain #2	10J11	8900	1/31	22.9	5.8	5.5	4.8	5.2	2
Lakefork Mountain #3	10J12	8100	1/31	20.9	5.0	5.0	3.6	4.3	2
Paradise Park	9J3	10500	2/1	32.1	6.5	9.5	--	7.2	2
Mosby Mountain (lower)	9J5	9500	2/1	28.4	6.0	8.2	--	6.4	2
Price River									
Huntington-Horseshoe	11K5	9800	1/28	40.5	12.0	11.0	15.6	19.4	4
Gooseberry Reservoir	11K4	8700	1/28	32.7	8.9	9.3	12.0	14.4	4
Mud Creek	11K6	8600	1/31	20.0	5.4	7.5	9.0	12.5	5
Clear Creek	11K18	8150	1/31	12.1	2.2	--	--	5.7	7
Staley Ranch	11K7	7600	1/31	15.3	3.1	3.2	4.9	5.7	13
Dry Valley Divide	11K8	7800	1/31	18.9	4.4	5.3	6.4	7.3	13
Indian Canyon*	10K1	9100	2/2	31.8	6.0	7.4	4.5	6.8	19

*On Adjacent Drainage

UTAH SNOW SURVEYS FEBRUARY 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
COLORADO RIVER DRAINAGE									
San Rafael River									
Huntington-Horseshoe	11K5	9800	1/28	40.5	12.0	11.0	15.6	19.4	4
Gooseberry Reservoir	11K4	8700	1/28	32.7	8.9	9.3	12.0	14.4	4
Switchback	11K26	8600	1/31	27.7	7.1	New Course			
Stuart R.S.	11K27	7950	1/31	16.8	3.5	New Course			
Escalante River									
Widtsoe-Escalante Summit	11M1	9500	2/4	30.4	7.4	3.6	4.4	5.5	17
Widtsoe-Escalante #2	11M2	9500	2/4	30.0	7.2	5.0	5.0	5.6	4
Virgin River									
Midway Valley*	12M2	9400	2/1	44.8	12.8	--	--	--	
Webster Flat	12M3	9200	2/1	38.0	10.5	10.2	7.9	13.4	3
Duck Creek R.S.*	12M4	8560	2/6	38.3	9.4	8.2	--	10.0	11
Harris Flat R.S.*	12M5	7700	2/6	32.1	8.1	6.2	--	7.1	9
Long Valley Junction	12M6	7500	2/6	19.8	5.3	--	--	6.6	3

*On Adjacent Drainage

INDEX OF SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
GREAT BASIN DRAINAGE					
Bear River above Harer, Idaho					
Hayden Fork (formerly Machine Crossing)	10J7	1	1S	9E	9300
Stillwater Camp	10J17	32	2N	10E	8550
Head of Bear River (Deadman)	10J5	15	2N	10E	8600
Goodman Ranch	10J6	19	3N	10E	7900
Monte Cristo R. S.	11H12	3	8N	4E	8960
Poison Meadows, (Wyoming)*	10G6	29	30N	116W*	8500
Snyder Basin R. S., (Wyoming)*	10G9	15	29N	114W*	8040
Piney LaBarge, (Wyoming)*	10G10	19	29N	114W*	8820
Big Park, (Wyoming)	10G11	7	27N	117W*	8700
Kelly Ranger Station, (Wyoming)	10G12	13	26N	118W*	8200
Salt River Summit, (Wyoming)*	10G8	32	29N	118W*	7900
Bear River below Harer, Idaho					
Garden City Summit	11H7	34	14N	4E	8000
Emigrant Summit, (Idaho)	11G6	21	12S[x]	42E[x]	7700
Emigration Canyon (mouth), Idaho	11G7	24	12S[x]	42E[x]	6500
Slug Creek Divide, (Idaho)	11G5	10&15	10S[x]	44E[x]	7300
Franklin Basin R. S., (Idaho)	11G8	1&12	16S[x]	41E[x]	8200
Klondike Narrows	11H1	10	14N	3E	7400
Tony Grove Lake	11H2	5	13N	3E	8200
Tony Grove Ranger Station	11H3	11	13N	3E	6250
Mt. Logan	11H6	3	11N	2E	9000
Spring Hollow (upper)	11H5	35	12N	2E	8000
Spring Hollow (lower)	11H4	26	12N	2E	7000
Monte Cristo R. S.	11H12	3	8N	4E	8960
Dry Bread Pond*	11H13	19	8N	4E	8230
Beaver Creek-Skunk Creek*	11H14	22	8N	3E	7150
Ogden River					
Monte Cristo R. S.*	11H12	3	8N	4E	8960
Dry Bread Pond	11H13	19	8N	4E	8230
Beaver Creek-Skunk Creek	11H14	22	8N	3E	7150
Sagebrush Flat	11H15	21	7N	3E	6300
Ben Lomond Peak	11H8	3	7N	1W	800[illegible]
Ben Lomond (lower)	11H9	1	7N	1W	600[illegible]
Mt. Ogden	11H10	5	5N	1E	860[illegible]
Snow Basin	11H11	32	6N	1E	650[illegible]

*Adjacent Drainage

[x]Uinta Base and Meridian

INDEX OF SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
GREAT BASIN DRAINAGE					
Weber River					
Trial Lake*	10J8	5	2S	9E	9800
Smith & Morehouse	11J4	25	1N	7E	7600
Redden Mine (upper)	11J5	1	2S	6E	9000
Redden Mine (lower)	11J6	1	2S	6E	8500
Beaver Creek R. S.	11J24	28	2S	7E	7500
Chalk Creek #1	11J1	4	1N	8E	9100
Chalk Creek #2	11J2	17&20	2N	8E	8200
Chalk Creek #3	11J3	7	2N	8E	7500
Silver Lake*	11J16	35	2S	3E	8725
Parley's Canyon Summit	11J15	9&10	1S	3E	7500
Lamb's Canyon*	11J14	19	1S	3E	6600
Provo River and Utah Lake					
Trial Lake	10J8	5	2S	9E	9800
Soapstone R. S.	11J25	9	3S	2E	7800
Daniels-Strawberry Summit	11J23	20	2S[x]	12W[x]	8000
Strawberry Divide	11J8	34&35	7S	6E	8000
East Portal	11J7	36	7S	6E	7560
Hobble Creek Summit	11J22	20	7S	5E	7300
Packard Canyon	11J31	21	7S	5E	6400
Clear Creek Ridge #1	11K21	18	11S	6E	9200
Clear Creek Ridge #2	11K22	9	11S	6E	8000
Clear Creek Ridge #3	11K23	27	10S	6E	6600
Payson Ranger Station	11K1	30	10S	3E	8050
Rock Bridge	11K2	14	10S	2E	6750
Dutchman R. S.	11J17	27	3S	3E	7500
Timpanogas Divide	11J21	33	4S	3E	8200
Camp Altamont	11J20	29	4S	3E	7300
South Fork R. S.	11J19	24	4S	2E	6100
Timpanogas Cave Camp	11J18	27	4S	2E	5500
Jordan River and Great Salt Lake					
Silver Lake	11J16	35	2S	3E	8720
Mill D. South Fork	11J10	18	2S	3E	740[illegible]
Lamb's Canyon	11J14	19	1S	3E	660[illegible]
Parley's Canyon Summit*	11J15	9&10	1S	3E	750[illegible]
Farmington Canyon (upper)	11J11	26	3N	1E	800[illegible]
Farmington Canyon (lower)	11J12	14	3N	1E	6950
Barnard Creek	11J13	34	3N	1E	8000
Rocky Basin-Settlement Canyon	12J1	30	4S	3W	8900
Bevan's Cabin	12J2	Location not known yet			
Middle Canyon	12J3	8	4S	3W	7000

*Adjacent Drainage

[x]Uinta Base and Meridian

INDEX OF SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
GREAT BASIN DRAINAGE					
Sevier River above Richfield					
Cedar Breaks	12M1	2	37S	9W	10390
Midway Valley	12M2	26	37S	9W	9400
Duck Creek R. S.	12M4	11	38S	8W	8560
Harris Flat R. S.	12M5	24	38S	7W	7700
Long Valley Junction*	12M6	22	38S	6W	7500
Panguitch Lake	12M7	4&5	36S	7W	8200
Bryce Canyon	12M8	36	36S	4W	8000
Widtsoe- Escalante Summit	11M1	22	34S	1W	9500
Widtsoe-Escalante #2	11M2	22	34S	1W	9500
Fish Lake*	11L3	35	26S	1E	8700
Box Creek	12L4	33	26S	2W	9800
Squaw Springs	12L5	3	27S	2W	9300
Big Flat*	12L7	18	29S	4W	10000
Kimberly Mine (upper)	12L6	11	27S	5W	8900
Sevier River below Richfield, Utah (including San Pitch River)					
Farnsworth Lake	11L1	27&33	23S	2E	9900
Gooseberry R. S.	11L2	32	23S	2E	8400
Huntington-Horseshoe*	11K5	12	14S	5E	9800
Gooseberry Reservoir*	11K4	25	13S	5E	8700
Mammoth R. S.-Cottonwood Creek	11K3	13&23	13S	5E	8800
G.B.R.C. Meadows	11K10	26&27	17S	4E	10000
G.B.R.C. Headquarters	11K11	21	17S	4E	8700
Mt. Baldy R. S.	11K12	19	19S	4E	9500
Beaver Dams	11K13	27	19S	3E	8000
Pine Creek	12L1	24	22S	4W	8700
Pine Creek-Chalk Creek	12L2	14	22S	4W	8500
Bear Canyon	12L3	17	22S	3W	7200
Beaver River					
Big Flat	12L7	18	29S	4W	10000
Otter Lake	12L8	1	29S	5W	9300
Merchants Valley	12L9	8&9	29S	5W	8200
Parowan Creek					
Yankee Reservoir	12M11	20	35S	8W	8700
Ed Ward Flat	12M12	17	35S	8W	8300

*Adjacent Drainage

INDEX OF SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
GREAT BASIN DRAINAGE					
Coal Creek					
Cedar Breaks*	12M1	2	37S	9W	10390
Midway Valley*	12M2	26	37S	9W	9400
Webster Flat*	12M3	20	37S	9W	9200
Urie Flat	12M10	11	37S	10W	8450
Enterprise to New Harmony Drainage					
Long Flat	13M2	2	38S	14W	8200
Pine Valley*	13M1	3	40S	15W	9150
Rattlesnake Springs	13M3	1	38S	19W	6500
COLORADO RIVER DRAINAGE					
Upper Green River in Utah					
Hewinta R. S.	10J4	33	3N	13E	9500
Hole-in-the-Rock	10J1	13	2N	15E	9150
Middle Beaver Creek	10J2	31	3N	16E	8550
Hole-in-the-Rock R. S.	10J3	32	3N	16E	8300
King's Cabin (upper)	9J1	22	1S	21E	8800
King's Cabin (lower)	9J2	23&26	1S	21E	8600
Duchesne River					
Trial Lake*	10J8	5	2S	9E	9800
Soapstone R. S.*	11J25	9	3S	2E	7800
Daniels-Strawberry Summit*	11J23	20	2S[x]	12W[x]	8000
Strawberry Divide*	11J8	34&35	7S	6E	8000
East Portal*	11J7	36	7S	6E	7560
Indian Canyon	10K1	2	11S	10E	9100
Brown Duck Lake	10J9	2	2N[x]	6W[x]	10300
Lakefork Mountain	10J10	2&3	2N[x]	5W[x]	10500
Lakefork Mountain #2	10J11	17	2N[x]	4W[x]	8900
Lakefork Mountain #3	10J12	29	2N[x]	4W[x]	8100
Paradise Park	9J3	7	3N[x]	1E[x]	10500
Mosby Mountain (lower)	9J5	5	2N[x]	1E[x]	9500
Price River					
Huntington-Horseshoe	11K5	12	14S	5E	9800
Gooseberry Reservoir	11K4	25	13S	5E	8700
Mammoth R. S.-Cottonwood Creek*	11K3	13&23	13S	5E	8800

*Adjacent Drainage

[x]Uinta Base and Meridian

INDEX OF SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
COLORADO RIVER DRAINAGE					
Price River - Cont'd.					
Mud Creek	11K6	4	14S	11W	8600
Staley Ranch	11K7	32	12S	7E	7600
Clear Creek	11K18	28	13S	7E	8150
Dry Valley Divide	11K8	20	12S	8E	7800
White River #1	10K2	11	10S	8E	8600
White River #2	11K24	9	10S	8E	7600
White River #3	11K25	30	10S	8E	7400
Indian Canyon*	10K1	2	11S	10E	9100
San Rafael River					
Huntington-Horseshoe	11K5	12	14S	5E	9800
Switchback	11K26	14	14S	6E	8600
Stuart R. S.	11K27	8&9	15S	7E	7950
Red Pine Ridge	11K28	5	16S	6E	9400
Middle Mountain	11K29	33	16S	6E	8750
Wilberg Ranch	11K30	17	17S	6E	7800
Seeley Creek R. S. #2	11K9	25	17S	4E	10000
Ferron Reservoir	11K31	23	19S	4E	9500
Wrigley Creek	11K32	27	19S	5E	9000
Muddy River					
Black Fork	11K14	34	20S	4E	9200
Dill's Camp	11K15	27	20S	4E	9200
Mt. Baldy R. S.*	11K12	19	19S	4E	9500
Fremont River					
Farnsworth Lake	11L1	27&33	23S	2E	9900
Fish L ake	11L3	35	26S	1E	8700
Johnson Valley	11L6	24	25S	2E	8850
Black's Flat - U. M. Creek	11L4	33	24S	3E	9250
Donkey Reservoir	11L5	9	30S	4E	9800
Escalante River					
Widtsoe-Escalante Summit	11M1	22	34S	1W	950
Widtsoe-Escalante #2*	11M2	22	34S	1W	950

*Adjacent Drainage

INDEX OF SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
COLORADO RIVER DRAINAGE					
Virgin River					
Cedar Breaks*	12M1	2	37S	9W	10390
Midway Valley*	12M2	26	37S	9W	9400
Webster Flat	12M3	20	37S	9W	9200
Duck Creek R. S.*	12M4	11	38S	8W	8560
Harris Flat R. S.*	12M5	24	38S	7W	7700
Long Valley Junction	12M6	22	38S	6W	7500
Pine Valley	13M1	3	40S	15W	9150
Lower Colorado River (Southeastern Utah)					
LaSal Mountain	9L1	5	27S	24E	8800
Buckboard Flat	9M1	36	33S	22E	9000

*Adjacent Drainage

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

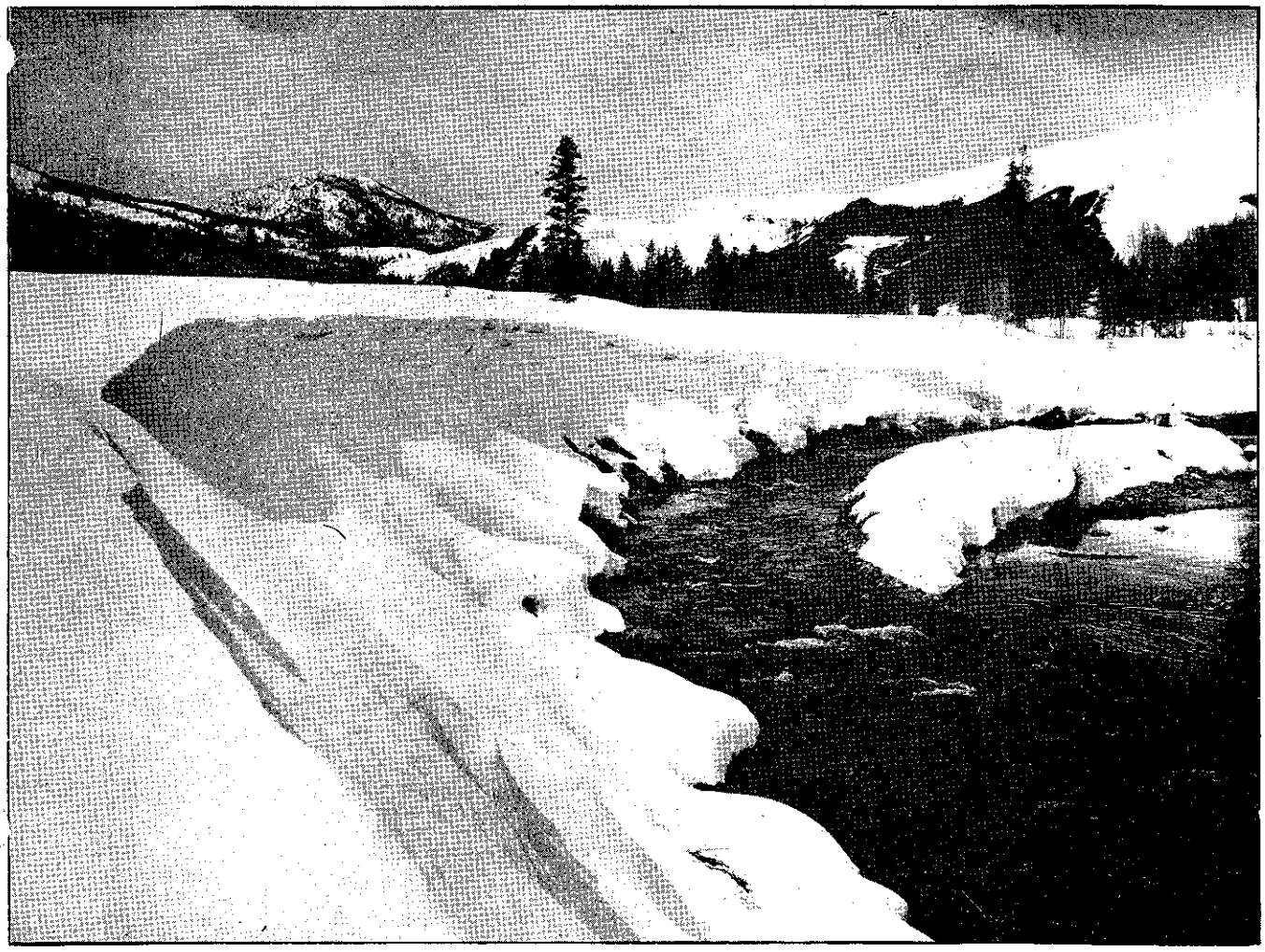
Utah Agricultural Experiment Station
Utah State Engineer
- Little Bear River Commissioner
- Price River Commissioner
- Provo River Commissioner
- Sevier River Commissioner
- Spanish Fork River Commissioner
- Weber River Commissioner

Municipalities or Quasi-Municipalities

Salt Lake City Corporation

Organized Public Agencies

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



Federal-State Cooperative Snow Surveys and Water Supply Forecasts for UTAH

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
AND

STATE ENGINEER OF UTAH
UTAH AGRICULTURAL EXPERIMENT STATION
IN COOPERATION WITH

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

AS OF
MARCH 1, 1955

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS and WATER SUPPLY FORECASTS

for

U T A H

MARCH 1, 1955

Report Prepared
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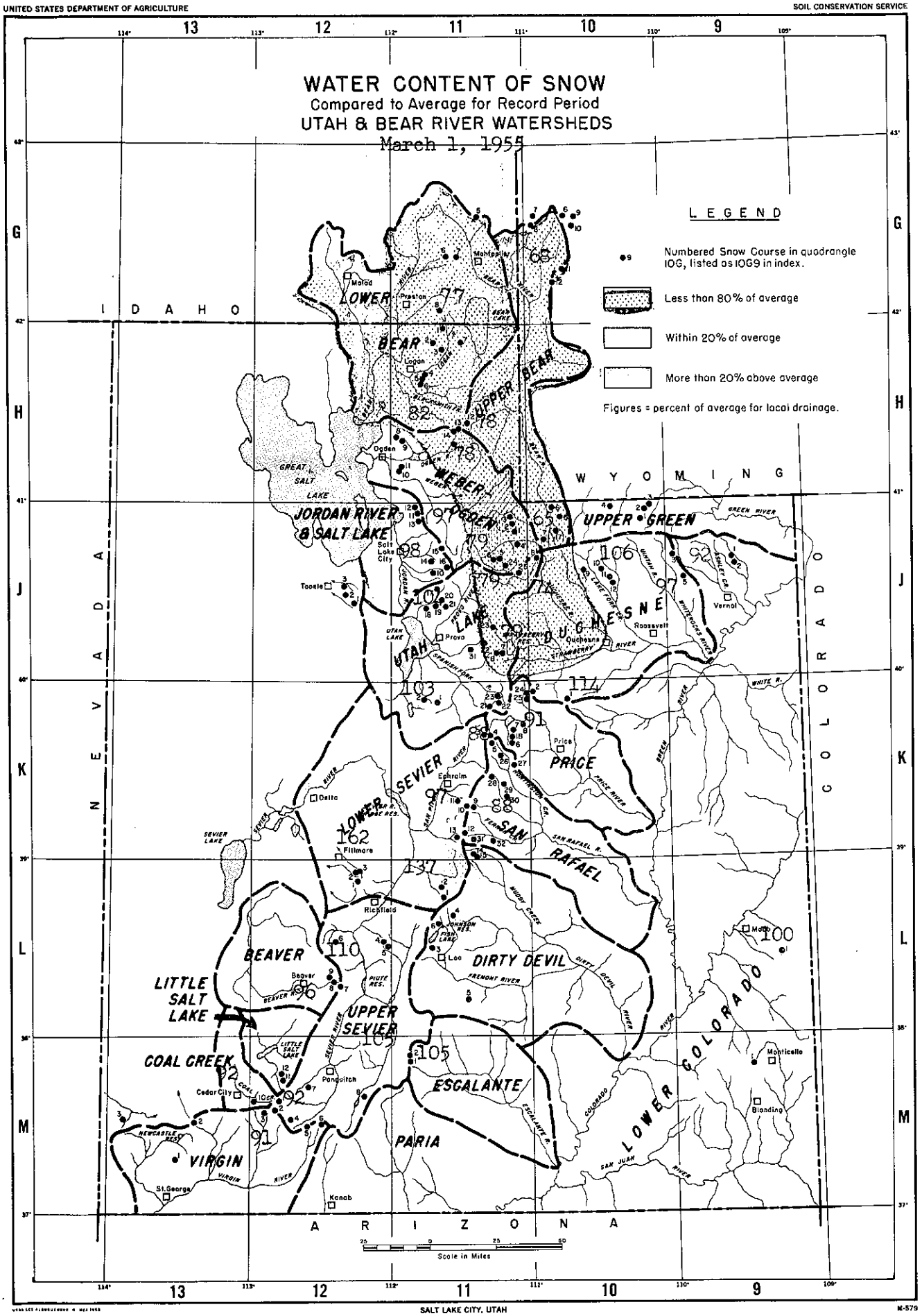
WATER CONTENT OF SNOW

Compared to Average for Record Period

UTAH & BEAR RIVER WATERSHEDS

March 1, 1955



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WATER SUPPLY OUTLOOK

for UTAH

MARCH 1, 1955

Seriously deficient water supplies are still in prospect on the tributary watersheds of the Bear River in Utah, Idaho and Wyoming, and in Utah on the Ogden, Weber, upper Provo, Strawberry and Duchesne Rivers. Forecast runoff on these streams varies from 44 percent to 76 percent of the 1943-52 ten-year average. A narrow belt of excellent water supply prospects runs from Chalk Creek at Fillmore through to the Salina Creek area. Elsewhere in the state snow cover indicates runoff will be within 10 or 15 percent of the last 20 to 30 year averages. However, when compared to the average of the ten years 1943 - 52, the period currently being used by most agencies in the West, all streams other than in the Fillmore-Salina area will have below average runoff. Holdover storage in 14 reporting reservoirs is 47 percent of capacity, 76 percent of last year and 91 percent of the ten-year average.

GENERAL OUTLOOK

With a few exceptions, snow water decreases in percent of average from the lower to the higher elevations of the state's watersheds. This is due to two factors. The first is that many of the winter storms have left proportionately more moisture at the lower levels and second, the unseasonably cold months of January and February have prevented a normal melt of the lower snows.

The result of this abnormal snowpack distribution will be that more of the total seasonal runoff than usual will occur early. Consequently, the stream discharges may be expected to decrease more rapdily than average beginning during June on most streams. Unless very high precipitation occurs during our spring months, this will be particularly noticeable on the Weber River at Oakley, Provo River above Hailstone, Duchesne River at Tabiona, Bear River south of Evanston and the streams in the Cache Valley-Bear Lake area.

Most of this area now has less snow water in storage on the watersheds than it did a year ago at this time. If the coming spring should be as dry as the last one, runoff will be proportionately less than last year's, with greater economic effects. The runoff forecasts on pages 3, 4 and 5 of this report are based on the assumption that average conditions will prevail for the balance of the season.

The streams along the Wasatch Front from Farmington south to American Fork and East Canyon Creek which flows north to Morgan on the Weber River have a snow pack which is within five percent of average. Fears which have been expressed publicly that damaging peak flows would occur on some of the streams in the Salt Lake area can be forgotten since the abnormally high intermediate elevation snow pack which produced the 1952 floods is not present.

Although the snow cover on East Canyon Creek is near average, water supply prospects here, as well as on the Weber and Ogden Rivers, are poorer than the runoff forecasts alone would indicate. Holdover reservoir supplies are an important factor this year. Storage in Echo, East Canyon and Pineview Reservoirs average 18 percent of capacity, 55 percent of last year and 52 percent of the ten-year average.

Snow cover on Hobble Creek above Springville is 80 percent of average. On the Spanish Fork River it varies from 80 percent on Diamond Fork to about 103 percent on the tributaries coming from the eastern slopes of Mt. Nebo. Excellent holdover storage is contained in Strawberry Reservoir, which had 56 percent of capacity and 174 percent of the March 1 ten-year average.

If average conditions are experienced during the spring, water users on the Price and Sevier Rivers should have sufficient water for their needs. However, because of low reservoir carryover storage, it would not take a very dry spring to cause the prospective water supply outlook to become serious.

Streams in the Uintah Basin from Lakefork River east to Ashley Creek, Indian Creek on the south side of the Basin, in southeastern Utah, and in southwestern Utah on the Virgin and Beaver Rivers and Coal Creek at Cedar City have a snow cover which indicates runoff will be near their longtime averages.

Water users in the areas where deficient supplies are in prospect should be prepared to reduce their water requirements for municipal, irrigation and other uses. Changes in the water supply outlook will be reported in April 1 and May 1 bulletins.

UTAH STREAMFLOW FORECASTS - MARCH 1, 1955

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1955	% 10-Yr. Avg.	Forecast Period	Measured Runoff 1954	1953	1952	10-Yr. Average 1943-52
GREAT BASIN							
Bear River System							
Bear River at Harer, Idaho	160	46	Apr.-Sept.	99.5	183.8	487.1	344.6
Little Bear River near Paradise, Utah	35	67	Apr.-Sept.	20.7	33.6	77.0	51.9
Logan River near Logan, Utah (1)	93	60	Apr.-Sept.	85.5	120.8	168.6	153.8
Blacksmith Fork near Hyrum, Utah (2)	48	66	Apr.-Sept.	39.0	50.5	108.8	72.8
Weber-Ogden Rivers							
Weber River near Oakley, Utah	99	70	Apr.-Sept.	82.3	116.6	192.4	141.0
Weber River near Coalville, Utah (3)	88	56	Apr.-Sept.	66.9	112.0	258.3	156.7
Chalk Creek at Coalville, Utah	26	53	Apr.-Sept.	13.2	28.1	85.4	48.8
East Canyon Creek near Morgan, Utah (4)	26	76	Apr.-Sept.	6.6	22.9	67.2	34.2
S. Fork Ogden River Near Huntsville, Utah	58	76	Apr.-Sept.	35.9	60.3	112.3	76.4
Provo River & Utah Lake							
Provo River at Vivian Park, Utah (5)	110	59	Apr.-Sept.	99.5	125.2	353.3	186.4
American Fork near American Fork, Utah	32	82	Apr.-Sept.	22.0	31.8	56.2	39.2
Jordan River & Salt Lake							
Big Cottonwood near Salt Lake City, Utah	38	90	Apr.-Sept.	25.8	42.2	59.5	42.1

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

UTAH STREAMFLOW FORECASTS - MARCH 1, 1955

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1955	% 10-Yr. Avg.	Forecast Period	Measured Runoff 1954	1953	1952	10-Yr. Average 1943-52
			GREAT BASIN				
Jordan River & Salt Lake (Cont'd)							
Parley's Creek near Salt Lake City, Utah	13.5	80	Apr.-Sept.	4.4	16.1	33.6	16.9
Sevier River							
Sevier River at Hatch, Utah	48	84	Apr.-Sept.	41.8	23.4	100.8	57.3
Sevier River near Kingston, Utah	31	79	Apr.-Sept.	14.9	8.1	85.1	39.0
Beaver River							
Beaver River near Beaver, Utah	26	79	Apr.-Sept.	17.4	14.8	57.3	32.8
Coal Creek							
Coal Creek near Cedar City, Utah	15.5	84	Apr.-Sept.	14.9	8.1	36.4	18.5
			COLORADO RIVER BASIN				
Upper Green River							
Ashley Creek near Vernal, Utah	50	77	Apr.-Sept.	44.2	44.4	89.8	64.7
Duchesne River							
Duchesne River near Tabiona, Utah (6)	76	56	Apr.-Sept.	64.3	97.2	211.1	135.9
Strawberry River at Duchesne, Utah	40	44	Apr.-Sept.	34.6	46.8	262.2	91.5
Lakefork River below Moon Lake, Utah (7)	72	86	Apr.-Sept.	48.5	61.5	101.6	83.4
Uinta River near Neola, Utah	90	81	Apr.-Sept.	71.8	74.8	157.3	111.1
Whiterocks River near Whiterocks, Utah	65	86	Apr.-Sept.	45.4	49.5	116.9	75.4

(6) Observed flow plus diversion through Duchesne tunnel.
(7) Observed flow plus change in storage in Moon Lake Reservoir.

UTAH STREAMFLOW FORECASTS - MARCH 1, 1955

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1955	% 10-Yr. Avg.	Forecast Period	Measured Runoff 1954	1953	1952	10-Yr. Average 1943-52
COLORADO RIVER BASIN							
Price River							
Price River near Heiner, Utah (8)	46	58	Apr.-Sept.	26.3	47.3	230.7	78.8
San Rafael River							
Huntington Creek near Huntington, Utah	46	72	Apr.-Sept.	31.5	57.1	139.5	63.6
Cottonwood Creek near Orangeville, Utah	48	70	Apr.-Sept.	31.8	50.8	143.6	68.1

(8) Observed flow plus change in storage in Scofield Reservoir.

COMPARATIVE SNOW DATA

Summary of Snow Survey Data by Tributary Watersheds as of March 1, 1955

TRIBUTARY BASINS	No. of Courses Averaged	Years of Record	1955 Snow Water Expressed as Percent of 1954	1953	& Average
GREAT BASIN					
Upper Bear River	8	4-19	79	79	70*
Logan River	7	1-30	90	94	77*
Blacksmith Fork, Little Bear	8	2-30	88	91	82*
Ogden River, South Fork	2	6-7	93	85	78*
Weber River above Echo Dam	10	3-20	113	97	79*
East Canyon Creek	3	7-20	134	111	97*
Salt Lake Area	6	2-20	135	102	98*
Provo River above Vivian Park	7	4-24	104	95	79*
Utah Lake (other than Provo River)	9	2-24	128	126	94*
Sevier River South of Richfield	9	3-18	136	150	96*
San Pitch River	4	5-17	124	--	93*
Chalk Creek - Fillmore	2	1	205	--	162*
Beaver River	3	6-8	141	155	96*
Coal Creek - Cedar City	2	1-5	106	128	92*
COLORADO RIVER BASIN					
Duchesne-Strawberry Rivers above Duchesne	5	8-24	103	88	74*
Lakefork River	3	2-4	111	138	106*
Whiterocks-Uintah Rivers	2	4-5	80	160	97
Ashley Creek	4	4-6	79	137	92*
Price River	6	5-14	130	--	91*
San Rafael	3	3-10	119	--	88*
Escalante River	2	5-18	339	124	105*
Virgin River	4	1-12	128	152	91*
Southeastern Utah (near Moab)	1	3	164	81	100*

*Several of the snow courses used in calculating these averages have only been measured for a few years on March 1, but have 15 to 30 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 normally accumulates by March 1 on courses having such records, and that are similarly located as to elevation and exposure.

STATUS OF RESERVOIR STORAGE MARCH 1, 1955

BASIN and STREAM	RESERVOIR	USABLE CAPACITY (1000 OF ACRE FT.)	THOUSAND ACRE FEET IN STORAGE ABOUT MARCH FIRST			
			1955	1954	1953	10-Yr.Avg. 1943 - 52
Bear River System						
Bear River	Bear Lake	1421.0	728.6	890.6	1002.9	806.9
Little Bear River	Hyrum	15.3	10.3	10.6	13.5	10.4
Weber-Ogden Rivers						
Ogden River	Pine View	43.6	3.4	4.1	13.9	6.0
Weber River	East Canyon	28.7	4.9	14.4	15.9	17.9
Weber River	Echo	73.9	18.8	30.5	40.1	28.3
Provo River & Utah Lake						
Provo River	Deer Creek	144.7	69.5	96.2	120.5	81.1
Spanish Fork River	Strawberry*	270.0	150.8	194.0	224.3	86.7
Utah Lake	Utah Lake*x	1149.0	575.1	767.2	951.2	543.6
Sevier River System						
Sevier River	Otter Creek	52.5	16.0	25.1	46.3	36.3
Sevier River	Piute	74.0	29.5	39.0	62.8	51.6
Sevier River	Sevier Bridge	236.0	85.5	149.8	211.6	171.7
Beaver River						
Beaver River	Rocky Ford	33.3	8.7	12.7	19.7	17.3
Duchesne River						
Lake Fork River	Moon Lake	35.8	10.7	11.8	19.3	14.9
Price River						
Price River	Scofield	65.8	10.2	32.7	48.3	14.2

* Figures for the Strawberry Reservoir obtained from the reports of the Spanish Fork River Commissioner. All other data contained in this table supplied by U.S.G.S.

x Active capacity taken at 3.1 feet above compromise point.

UTAH SNOW SURVEYS MARCH 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	1955 Snow Depth (In.)	1955 Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
GREAT BASIN DRAINAGE									
Bear River above Harer, Idaho									
Trial Lake*	10J8	9800	3/2	52.2	11.9	18.4	19.0	24.1	9
Monte Cristo	11H12	8960	2/26	60.1	16.8	17.9	--	26.4	6
Poison Meadows (Wyo.)*	10G6	8500	3/4	66.0	16.4	25.3	20.1	24.7	7
Big Park (Wyo.)	10G11	8700	3/4	51.0	13.3	15.2	14.2	17.9	4
Salt River Summit (Wyo.)	10G8	7900	2/28	45.0	7.9	11.8	12.2	14.0	7
CCC Camp (Wyo.)*	10G7	7500	2/28	40.0	7.6	9.5	9.4	10.1	19
Bear River below Harer, Idaho									
Garden City Summit	11H7	8000	2/28	55.2	13.7	15.0	14.1	18.6	8
Strawberry Mink Divide (Idaho)x	11G10	6800	2/22	46.0	12.0	New Course			
Strawberry Creek (Ida.) (Idaho)x	11G9	5800	2/22	35.2	8.6	New Course			
Christiansen Ranch (Idaho)x	11G11	5600	2/22	34.2	7.9	New Course			
Willow Flat (Idaho)x	11G4	6100	2/23	45.6	11.9	New Course			
Cub River R.S. (Idaho)x	11G12	5400	2/23	36.8	9.1	New Course			
Franklin Basin R.S. (Idaho)	11G8	8200	2/25	46.9	14.4	18.5	--	24.4	4
Klondike Narrows	11H1	7400	2/25	37.6	11.4	13.7	--	13.7	1
Tony Grove R.S.	11H3	6250	2/28	45.5	10.4	8.8	9.3	10.5	6
Mt. Logan	11H6	9000	2/26	59.0	16.6	20.4	22.3	23.6	30
Spring Hollow (upper)	11H5	8000	2/26	57.1	14.7	18.7	17.5	19.7	30
Spring Hollow (lower)	11H4	7000	2/26	40.6	11.4	11.7	11.1	12.9	29
Monte Cristo	11H12	8960	2/26	60.1	16.8	17.9	--	26.4	6
Dry Bread Pond*	11H13	8230	2/26	44.5	11.8	12.9	13.9	18.8	7
Beaver Creek-Skunk Cr.*	11H14	7150	2/26	34.2	8.0	10.0	8.0	12.3	3
Oxford Mountain (Ida.)x	12G3	6800	2/28	35.2	8.0	New Course			
Dry Creek Flat (Ida.)x	12G4	6350	2/28	39.1	9.9	New Course			
Ogden River									
Monte Cristo R.S.*	11H12	8960	2/26	60.1	16.8	17.9	--	26.4	6
Dry Bread Pond	11H13	8230	2/26	44.5	11.8	12.9	13.9	18.8	7
Beaver Creek-Skunk Cr.	11H14	7150	2/26	34.2	8.0	10.0	8.0	12.3	3
Sagebrush Flat	11H15	6300	2/27	32.7	7.3	2.3	2.8	2.6	2
Mt. Ogden	11H10	8600	3/1	63.4	22.6	15.2	22.3	25.5	5
Snow Basin	11H11	6500	3/1	46.5	12.9	10.5	--	10.5	1

* On Adjacent Drainage
x Location of these courses given at end of this section.

UTAH SNOW SURVEYS MARCH 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
GREAT BASIN DRAINAGE									
Weber River									
Trial Lake*	10J8	9800	3/2	52.2	11.9	18.4	19.0	24.1	9
Smith & Morehouse	11J4	7600	3/1	42.7	10.2	7.9	9.8	12.7	4
Redden Mine (upper)	11J5	9000	2/28	56.4	12.8	11.9	13.5	17.7	4
Redden Mine (lower)	11J6	8500	2/28	53.2	11.9	10.9	12.4	16.5	4
Beaver Creek R.S.	11J24	7500	3/2	31.2	6.6	5.3	7.0	8.8	6
Chalk Creek #1	11J1	8200	3/1	57.0	13.8	--	16.3	23.3	3
Chalk Creek #2	11J2	9100	3/1	47.3	9.3	11.3	11.5	13.8	4
Chalk Creek #3	11J3	7500	3/1	29.8	6.6	5.2	5.2	7.0	3
Silver Lake*	11J16	8725	3/1	69.9	21.8	15.7	16.8	20.7	20
Parley's Canyon Summit	11J15	7500	2/28	50.8	14.1	10.5	14.7	16.8	7
Lamb's Canyon*	11J14	6600	2/27	43.0	12.4	10.0	11.5	13.4	14
Provo River and Utah Lake									
Trial Lake	10J8	9800	3/2	52.2	11.9	18.4	19.0	24.1	9
Soapstone R.S.	11J25	7800	3/2	36.1	8.0	8.3	9.7	12.1	8
Daniels-Strawberry Summit	11J23	8000	3/1	49.1	11.8	11.4	9.5	13.5	24
Strawberry Divide	11J8	8000	2/26	49.4	15.1	11.4	14.7	18.2	19
East Portal	11J7	7560	2/26	35.5	7.6	6.5	10.8	11.4	20
Hobble Creek Summit	11J22	7300	3/3	40.7	10.4	8.1	--	12.2	2
Packard Canyon	11J31	6400	3/3	34.2	8.3	New Course			
Clear Creek Ridge #1	11K21	9200	No Report			New Course			
Clear Creek Ridge #2	11K22	8000	3/7	44.0	11.8	New Course			
Clear Creek Ridge #3	11K23	6600	3/7	26.0	6.6	New Course			
Payson R.S.	11K1	8840	3/3	54.1	17.1	12.4	--	16.0	7
Rock Bridge	11K2	6750	3/5	43.0	12.7	7.8	--	7.8	1
Dutchman R.S.	11J17	7500	3/2	53.6	17.6	--	--	--	
Timpanogos Divide	11J21	8200	3/1	73.9	23.1	23.4	16.4	23.0	20
Camp Altamont	11J20	7300	3/1	53.6	17.6	14.2	10.1	16.5	20
South Fork R.S.	11J19	6100	2/27	27.7	9.2	5.0	6.5	7.9	17
Timpanogos Cave Camp	11J18	5500	2/27	19.5	6.3	0.0	0.0	4.5	13
Jordan River and Great Salt Lake									
Silver Lake	11J16	8720	3/1	69.9	21.8	15.7	16.8	20.7	20
Mill D. South Fork	11J10	7400	3/1	63.2	18.2	12.7	16.5	14.6	2
Lamb's Canyon	11J14	6600	2/27	43.0	12.4	10.0	11.5	13.4	14
Parley's Canyon Summit*	11J15	7500	2/28	50.8	14.1	10.5	14.7	16.8	7
Farmington Canyon (upper)	11J11	8000	2/24	68.0	18.4	14.6	23.6	24.2	4

* On Adjacent Drainage

UTAH SNOW SURVEYS MARCH 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	1955 Snow Depth (In.)	1955 Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
GREAT BASIN DRAINAGE									
Jordan River and Great Salt Lake Cont'd.									
Farmington Canyon (lower)	11J12	6950	2/24	70.2	17.4	12.3	19.2	20.9	4
Rocky Basin-Settlement Canyon	12J1	8900	No Report			N.S.	--	--	
Bevan's Cabin	12J2	6450	No Report			8.0	--	8.0	1
Middle Canyon	12J3	7000	2/25	45.6	11.7	10.2	--	10.2	1
Sevier River above Richfield									
Cedar Breaks	12M1	10390	No Report			17.4	14.9	18.9	10
Midway Valley	12M2	9400	3/3	62.8	19.4	18.9	--	18.9	1
Duck Creek R.S.	12M4	8560	2/28	52.4	12.5	9.5	7.5	13.9	11
Harris Flat R.S.	12M5	7700	2/28	39.8	9.8	5.9	5.2	10.2	12
Long Valley Junction*	12M6	7500	2/28	19.4	5.0	4.4	0.0	5.4	6
Panguitch Lake	12M7	8200	2/26	20.0	4.9	3.0	3.4	5.0	3
Bryce Canyon	12M8	8000	3/1	27.8	3.0	2.3	--	5.6	8
Widtsoe-Escalante Summit	11M1	9500	2/25	30.4	7.8	1.5	5.8	7.4	18
Widtsoe-Escalante #2	11M2	9500	2/25	33.0	8.2	5.2	7.2	6.7	5
Big Flat*	12L7	10000	3/2	54.9	16.3	13.1	10.6	15.2	6
Kimberly Mine (upper)	12L6	8900	2/24	51.0	12.5	11.8	--	12.4	10
Sevier River below Richfield (including San Pitch River)									
Farnsworth Lake	11L1	9900	3/4	56.4	16.2	11.8	--	15.2	2
Gooseberry R.S.	11L2	8400	2/25	46.4	11.4	6.0	10.3	8.8	4
Huntington-Horseshoe*	11K5	9800	3/3	54.4	17.8	13.5	--	23.5	5
Gooseberry Reservoir*	11K4	8700	3/3	49.2	14.2	12.2	--	19.2	10
G.B.R.C. Meadows	11K10	10000	3/2	63.4	18.5	15.7	18.7	21.7	5
G.B.R.C. Headquarters	11K11	8700	3/2	49.9	13.5	10.5	13.4	13.3	17
Mt. Baldy R.S.	11K12	9500	3/5	65.1	18.8	14.5	17.5	21.0	3
Beaver Dams	11K13	8000	3/4	42.4	12.5	6.1	10.3	11.4	3
Pine Creek	12L1	8700	2/25	60.2	17.2	9.6	--	9.6	1
Pine Creek-Chalk Creek	12L2	8500	2/25	58.3	16.4	6.6	--	6.6	1
Bear Canyon	12L3	7200	2/23	45.4	11.1	5.9	--	5.9	1

* On Adjacent Drainage
N.S. No Survey

UTAH SNOW SURVEYS MARCH 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
GREAT BASIN DRAINAGE									
Beaver River									
Big Flat	12L7	10000	3/2	54.9	16.3	13.1	10.6	15.2	6
Otter Lake	12L8	9300	3/2	44.6	12.8	11.1	8.2	13.9	7
Merchant's Valley	12L9	8200	3/2	39.3	10.1	5.5	6.5	9.5	8
Coal Creek									
Cedar Breaks*	12M1	10390	No Report			17.4	14.9	18.9	10
Midway Valley*	12M2	9400	3/3	62.8	19.4	18.9	--	18.9	1
Webster Flat*	12M3	9200	3/3	52.8	14.4	13.2	10.7	14.1	5
Urie Flat	12M10	8450	3/3	27.0	8.3	New Course			
Enterprise to New Harmony Drainage									
Long Flat	13M2	8200	2/17	22.5	6.1	New Course			
Rattlesnake Springs	13M3	6500	2/16	26.6	6.7	New Course			
COLORADO RIVER DRAINAGE									
Upper Green River									
King's Cabin (upper)	9J1	8800	2/27	42.8	8.3	10.6	7.2	11.1	6
King's Cabin (lower)	9J2	8600	2/27	36.1	6.7	8.6	6.0	9.8	6
Duchesne River									
Trial Lake*	10J8	9800	3/2	52.2	11.9	18.4	19.0	24.1	9
Soapstone R.S.*	11J25	7800	3/2	36.1	8.0	8.3	9.7	12.1	8
Daniels-Strawberry Summit*	11J23	8000	3/1	49.1	11.8	11.4	9.5	13.5	24
Strawberry Divide*	11J8	8000	2/26	49.4	15.1	11.4	14.7	18.2	19
East Portal*	11J7	7560	2/26	35.5	7.6	6.5	10.8	11.4	20
Indian Canyon	10K1	9100	3/2	38.1	9.9	8.8	6.2	8.7	17
Lakefork Mountain	10J10	10500	2/25	39.1	10.0	9.3	6.9	9.8	4
Lakefork Mountain #2	10J11	8900	2/25	32.7	7.8	7.2	5.8	6.5	2
Lakefork Mountain #3	10J12	8100	2/25	32.6	7.1	6.0	5.2	5.6	2
Paradise Park	9J3	10500	2/26	42.5	9.7	12.4	6.4	12.0	4
Mosby Mountain (lower)	9J5	9500	2/26	37.1	8.9	10.9	5.3	10.4	5

* On Adjacent Drainage

UTAH SNOW SURVEYS MARCH 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	1955 Snow Depth (In.)	1955 Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
COLORADO RIVER DRAINAGE									
Price River									
Huntington-Horseshoe	11K5	9800	3/3	54.4	17.8	13.5	--	23.5	5
Gooseberry Reservoir	11K4	8700	3/3	49.2	14.2	12.2	--	19.2	10
Mud Creek #1	11K6	8250	2/28	41.7	10.2	8.9	17.9	17.3	5
Mud Creek #2	11K33	8300	2/28	42.2	9.2	New Course			
Clear Creek	11K18	8150	2/28	25.9	5.5	--	--	7.1	9
Staley Ranch	11K7	7600	2/28	30.0	7.0	3.8	6.8	7.0	14
Dry Valley Divide	11K8	7800	3/1	37.4	8.7	7.3	8.0	9.8	14
White River #1	10K2	8600	No Report			New Course			
White River #2	11K24	7600	No Report			New Course			
White River #3	11K25	7400	3/1	31.4	7.6	New Course			
Indian Canyon*	10K1	9100	3/2	38.1	9.9	8.8	6.2	8.7	17
San Rafael River									
Huntington-Horseshoe	11K5	9800	3/3	54.4	17.8	13.5	--	23.5	5
Gooseberry Reservoir*	11K4	8700	3/3	49.2	14.2	12.2	--	19.2	10
Switchback	11K26	8600	3/4	41.9	12.7	New Course			
Stuart R.S.	11K27	7950	3/4	27.1	6.6	New Course			
Red Pine Ridge	11K28	9400	2/16	34.8	9.3	New Course			
Middle Mountain	11K29	8750	2/16	19.0	4.1	New Course			
Wilberg Ranch	11K30	7800	2/16	11.2	2.2	New Course			
Seeley Creek R.S. #2	11K9	10000	3/2	37.4	11.3	10.3	9.6	15.2	3
Muddy River									
Mt. Baldy R.S.*	11K12	9500	3/5	65.1	18.8	14.5	17.5	21.0	3
Fremont River									
Farnsworth Lake*	11L1	9900	3/4	56.4	16.2	11.8	--	15.2	2
Escalante River									
Widtsoe-Escalante Summit	11M1	9500	2/25	30.4	7.8	1.5	5.8	7.4	18
Widtsoe-Escalante #2	11M2	9500	2/25	33.0	8.2	5.2	7.2	6.7	5
Virgin River									
Long Valley Junction	12M6	7500	2/28	19.4	5.0	4.4	0.0	5.4	6
Harris Flat R.S.*	12M5	7700	2/28	39.8	9.8	5.9	5.2	10.2	12
Duck Creek R.S.*	12M4	8560	2/28	52.4	12.5	9.5	7.5	13.9	11
Midway Valley*	12M2	9400	3/3	62.8	19.4	18.9	--	18.9	1
Cedar Breaks*	12M1	10390	No Report			17.4	14.9	18.9	10
Webster Flat	12M3	9200	3/3	52.8	14.4	13.2	10.7	14.1	5

* On Adjacent Drainage

UTAH SNOW SURVEYS MARCH 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	1955 Snow Depth (In.)	1955 Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
COLORADO RIVER DRAINAGE									
Lower Colorado River (Southeastern Utah)									
LaSal Mountain	9L1	8800	2/22	37.5	9.0	5.5	11.1	10.9	3

INDEX OF NEW SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
GREAT BASIN DRAINAGE					
Bear River below Harer, Idaho					
Strawberry-Mink Divide, Idaho	11G10	14	13S	41E	6800
Strawberry Creek, Idaho	11G9	9	13S	41E	5800
Christiansen Ranch, Idaho	11G11	27	13S	41E	5600
Willow Flat	11G4	2	15S	41E	6100
Cub River R.S.	11G12	5	15S	41E	5400
Oxford Mountain	12G3	32	13S	37E	6800
Dry Creek Flat	12G4	31	13S	37E	6350

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

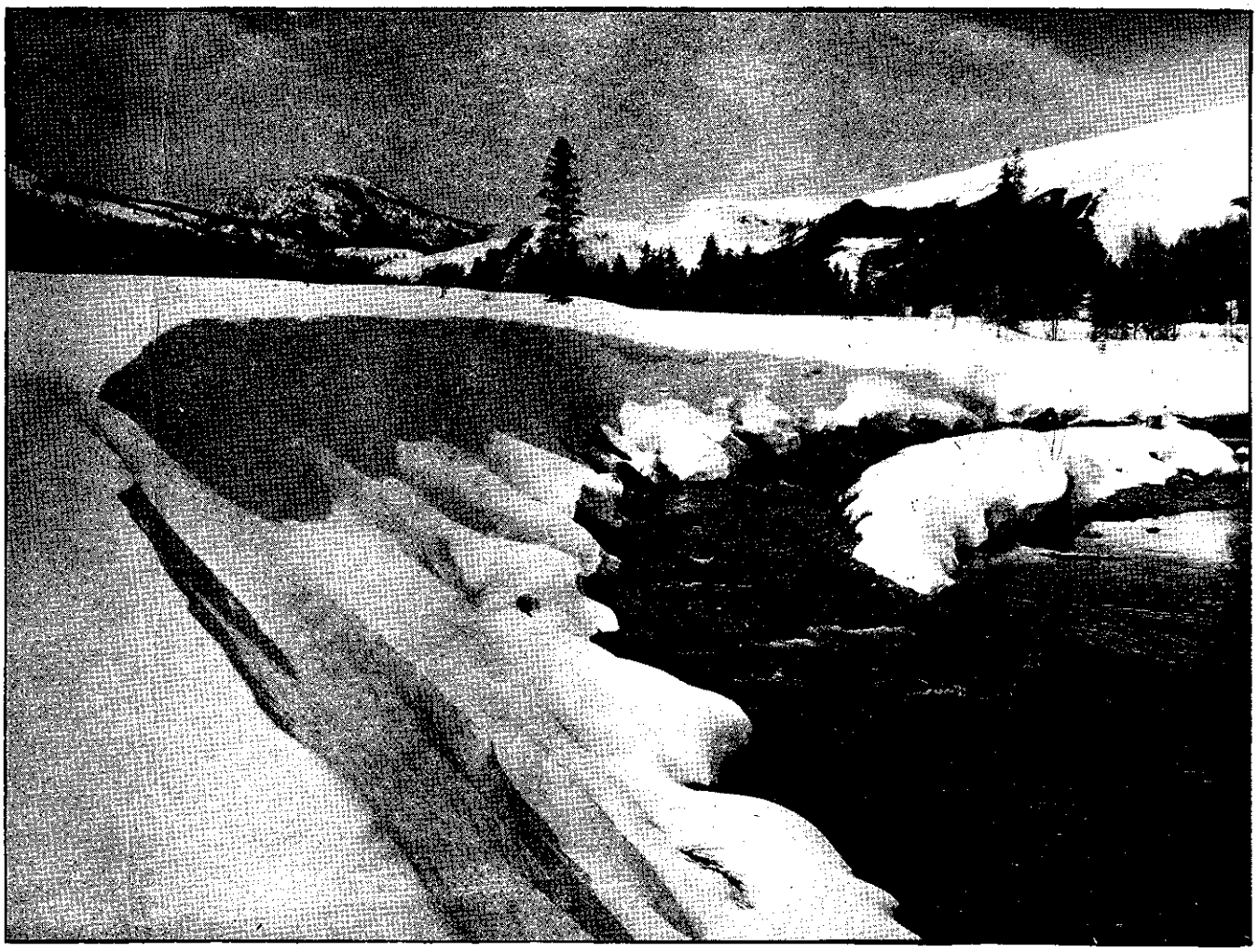
Utah Agricultural Experiment Station
Utah State Engineer
- Little Bear River Commissioner
- Price River Commissioner
- Provo River Commissioner
- Sevier River Commissioner
- Spanish Fork River Commissioner
- Weber River Commissioner

Municipalities or Quasi-Municipalities

Salt Lake City Corporation

Organized Public Agencies

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



Federal-State Cooperative Snow Surveys and Water Supply Forecasts for UTAH

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
AND

STATE ENGINEER OF UTAH
UTAH AGRICULTURAL EXPERIMENT STATION
IN COOPERATION WITH

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

AS OF
APRIL 1, 1955

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS and WATER SUPPLY FORECASTS

for

U T A H

APRIL 1, 1955

Report Prepared
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Definition of Terms on Map Following

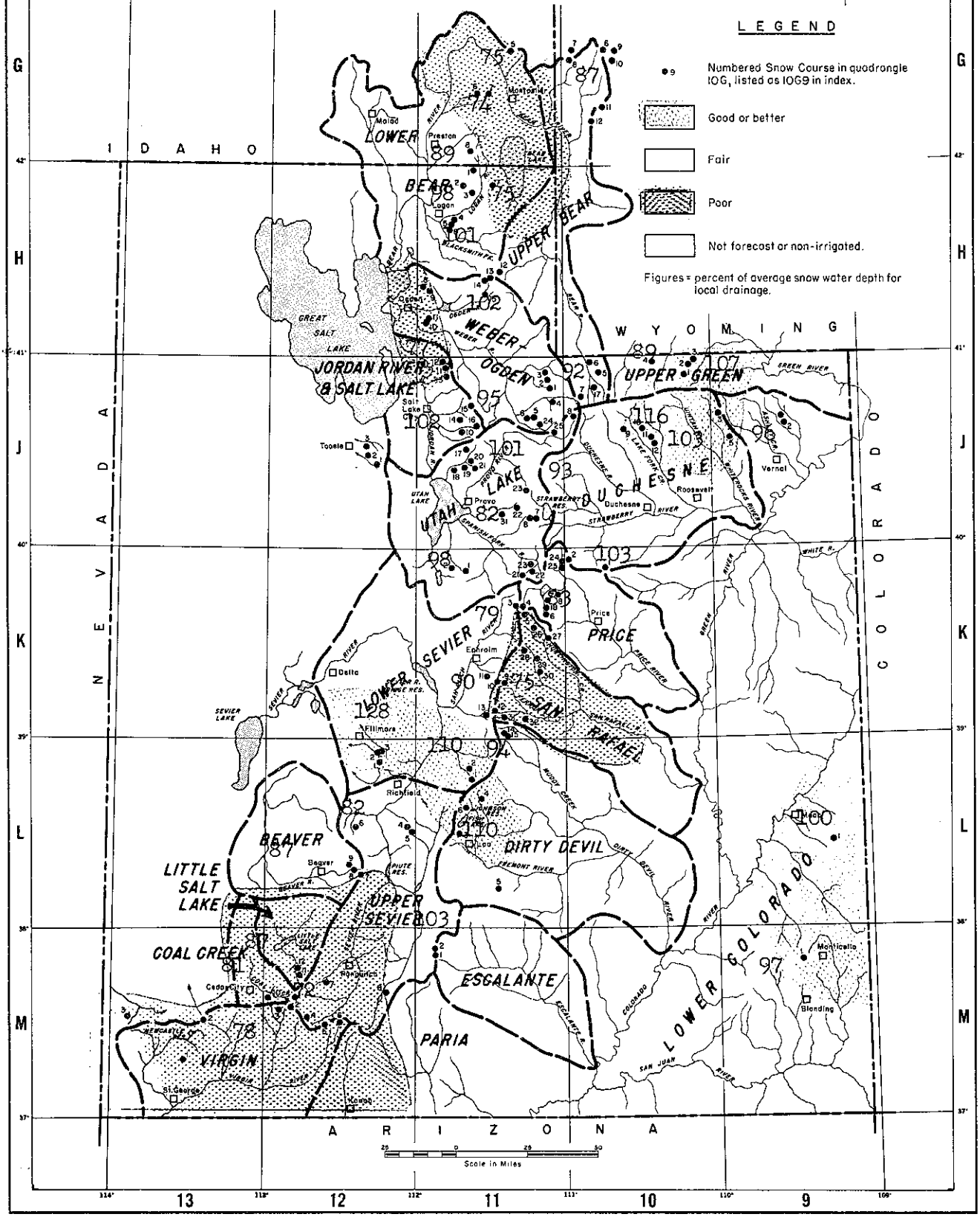
Good - Runoff prospects normal or better, with sufficient flow for all demands of current season, and in the case of holdover reservoirs, for replacements of evaporation and other natural reservoir losses.

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.

FORECAST WATER SUPPLY
Based on Snow Surveys Made on
UTAH & BEAR RIVER WATERSHEDS

Approximate Date



WATER SUPPLY OUTLOOK

for UTAH

APRIL 1, 1955

Fair runoff is now in prospect for the streams of Cache Valley, the Salt Lake City area, Utah Lake and the Weber, Ogden, Provo, Duchesne, Price, San Pitch, Muddy, Beaver and Escalante Rivers. Poor runoff is expected from the Virgin, Sevier, Coal Creek at Cedar City and San Rafael Rivers, from the Wasatch Front streams from Farmington to Ogden, and the Bear Lake and Bear River areas from Laketown, Utah to Soda Springs, Idaho. Good prospects exist for water users in the Fillmore-Salina-Loa area, in Southeastern Utah at Moab and Monticello, and in the Uintah Basin on the Lakefork, Yellowstone, Uintah and Whiterocks Rivers. Reservoir storage in 14 reporting reservoirs is 78 percent of last year, 90 percent of average and 51 percent of capacity.

GENERAL OUTLOOK

Major changes in the water supply outlook existing a month ago have resulted from the storm pattern which prevailed over the State during March.

In Northern Utah the snowpack increase for the month varied from about 125 to 370 percent of average on the watersheds of Mink Creek, the Cub, Logan, Blacksmith Fork and Little Bear Rivers of Utah and Idaho's Cache Valley, the South Fork of the Ogden, Weber, Upper Provo, Bear, Duchesne and Lakefork Rivers and the Strawberry Valley.

One outstanding example of this increase occurred at the Trial Lake snow course near the head of the Bear, Weber, Provo and Duchesne Rivers. Here an increase of 13.4 inches of water between the 2nd and 31st of March was recorded. This increase was more than had accumulated during all the rest of the winter, since there was only 11.9 inches of water here on March 2. At other courses, increases of 9 to 11 inches of water were common. The result of these wet storms at the higher elevations also showed up in increased densities where the storms had occurred. Surveyors found much easier traveling, both by foot and by snowmachine where these dense, wet snows had fallen.

On a few watersheds in these areas the very low precipitation which was general in the valleys throughout the State extended to the mountains. This was true of the snowpack on the streams along the west side of the Wasatch Front in the Farmington to Ogden area, and also immediately to the east of this mountain range on the North Fork of the Ogden River, Wheeler Creek in the Snow Basin area, and along East Canyon Creek from Parley's Canyon Summit northward to Morgan. Two other isolated spots of very low snowpack increase for the month showed up at the Smith and Morehouse course on the Weber River and at the Garden City Summit course on the Bear Lake drainage.

Starting in Central Utah at the Payson Ranger Station snow course and at the courses on the headwaters of the Price and San Pitch Rivers and then going south and west across all the watersheds from here to the Virgin River, we find that the largest increase for the month was about 70 percent. The average was about 25 percent, with a number of the main courses showing a loss of water due to evaporation and snowmelt.

Even with the heavy increase during March, forecast runoff of the streams in Northern Utah is still just fair. Forecast runoff for the Logan, Blacksmith Fork and Little Bear Rivers in Cache Valley is 70 to 73 percent of the ten-year average. The South Fork of the Ogden River is forecast at 92 percent. Total inflow to Pine View Reservoir, however, will be less than this, since the North Fork of the Ogden River can be expected to produce much less than average flow. In the Weber River Basin, East Canyon Creek is forecast at 59 percent, Chalk Creek at Coalville 69 percent, the Weber near Oakley 80 percent and near Coalville 73 percent. The Provo River below the Forks at Vivian Park is forecast at 78 percent and the American Fork River 86 percent. The Spanish Fork at Thistle 73 percent and Hobble Creek near Springville 77 percent. Snow cover at Payson Ranger Station on the Payson Mountain is 98 percent of average. Typical of the Salt Lake area is Big Cottonwood Creek, forecast at 98 percent of average and Parley's Creek 68 percent.

Currently the poorest water supply prospects in the State exist on the Sevier River above Piute Dam. If average climatic conditions exist during the runoff season, and particularly during April and May, streamflow on the main fork will be about 54 percent of the ten-year average. This will be about 6,000 acre feet more than in 1954. Although the East Fork of the Sevier should produce near average flow, there is a combined deficit in Piute and Otter Creek Reservoirs of 16,000 acre feet less than last year. The net result is that water users can look forward to about the same water supply as they had a year ago. A dry spring would cause a greater deficiency of water to mature late season crops than there was last fall.

The Virgin River, the Sevier River at Hatch, Coal Creek at Cedar City and the Beaver River at Beaver are all forecast to flow at 70 to 76 percent of average. This will be about the same as last year, except on the Beaver River which will be 50 percent more than a year ago. However, with less water in storage in Rocky Ford Reservoir than last year, prospects are still in the fair-to-poor range. On Parowan Creek the snowpack was 87 percent of average, but 136 percent of last year.

Other areas of poor runoff prospects exist on the tributaries of the San Rafael, the Wasatch Front streams in the Farmington-Ogden area, Utah and Idaho tributaries of the Bear Lake and Bear River from Laketown, Utah to Montpelier and Soda Springs area in Idaho. Runoff in these areas are forecast at 50 to 60 percent of average.

The Price River below Scofield Reservoir is now forecast at 29,000 acre feet. Although this is only 64 percent of average, when combined with the reservoir storage it should prove sufficient for water requirements unless a very dry spring develops.

The tributaries of the San Pitch River have a snowpack which varies from 79 percent on the streams near Mt. Pleasant to 90 percent on those in the Ephraim to Mayfield area.

The best water supply prospects in the State still exist on the watersheds of Pine Creek and Chalk Creek at Fillmore where the snowcover is 28 percent above normal. In the Salina to Loa area it is 10 percent more than usual.

In Southeastern Utah near Moab and Monticello the snow courses show an average snowcover.

In the Uintah Basin the forecasts are for 46 percent of the ten-year average on the Strawberry River at Duchesne, 72 percent on the Duchesne River near Tabiona, 96 percent on the Lakefork River below Moon Lake, 86 percent on the Uintah River near Neola, 89 percent on the Whiterocks River near Whiterocks and 77 percent on Ashley Creek near Vernal. Compared to a long term normal these percents would vary from about 75 to 115 percent of average. This is illustrated by percentage figures on the Strawberry River at Duchesne. As noted in previous bulletins, the ten-year average figure1943-52 is distorted by the heavy runoff of 1952. To illustrate, if the 1952 year is disregarded and the nine-year average figure used, the 46 percent figure for the Strawberry River at Duchesne would change to 73 percent. It is anticipated that a more realistic comparison period will be adopted by the various agencies in the West before next year.

Since those areas of the State which now have only fair water supply prospects would find that a dry spring would change their runoff to poor conditions, these users, as well as those in the areas which currently have poor prospects, will do well to plan now to institute good water management practices. Farmers and ranchers will realize more profitable feed and crop production by doing so. They can obtain valuable information and advise from their Soil Conservation Service technicians and County Agents to aid them in instituting such practices.

UTAH STREAMFLOW FORECASTS - APRIL 1, 1955

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

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1955	% 10-Yr. Avg.	Forecast Period	Measured Runoff 1954	1953	1952	10-Yr. Average 1943-52
			GREAT BASIN				
Bear River System							
Bear River at Harer, Idaho	175	51	Apr.-Sept.	100	184	487	345
	35	49	July-Sept.	24.0	50	77	71
Little Bear River near Paradise, Ut.	38	73	Apr.-Sept.	20.7	34	77	52
	3.5	76	July-Sept.	2.6	3.8	6.0	4.6
Logan River near Logan, Ut. (1)	108	70	Apr.-Sept.	86	121	169	154
	35	71	July-Sept.	27.5	46	49	49
Blacksmith Fork near Hyrum, Ut. (2)	53	73	Apr.-Sept.	39	50	109	73
	16.0	71	July-Sept.	14.3	19.5	31	22.6
Weber-Ogden Rivers							
Weber River Near Oakley, Ut.	113	80	Apr.-Sept.	82	117	192	141
	20.0	73	July-Sept.	16.6	25.0	35	27.5
Weber River near Coalville, Ut. (3)	115	73	Apr.-Sept.	67	112	258	157
	15.0	69	July-Sept.	11.3	18.4	34	21.7
Chalk Creek at Coalville, Ut.	34	69	Apr.-Sept.	13.2	28.1	85	49
	4.8	86	July-Sept.	2.3	4.6	8.6	5.6
East Canyon Creek near Morgan, Ut. (4)	20.0	59	Apr.-Sept.	6.6	22.9	67	34
	2.5	78	July-Sept	0.6	2.8	5.4	3.2
S. Fork Ogden River near Huntsville, Ut.	70	92	Apr.-Sept.	36	60	112	76
	9.0	90	July-Sept.	6.9	10.0	12.2	10.0

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

UTAH STREAMFLOW FORECASTS - APRIL 1, 1955

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet: Forecast Runoff 1955	% 10-Yr. Avg.	Forecast Period	Measured Runoff 1954	1953	1952	10-Yr. Average 1943-52
GREAT BASIN							
Provo River & Utah Lake							
Spanish Fork at Thistle, Utah	32	67	Apr.-Sept.	20.5	29.7	146	48
	6.5	73	July-Sept.	6.1	8.4	19.9	8.9
Hobble Creek near Springville, Utah	17.0	64	Apr.-Sept.	8.6	17.1	73	26.6(5)
	3.0	77	July-Sept	2.3	4.6	8.5	3.9(5)
Provo River at Vivian Park, Ut. (6)	146	78	Apr.-Sept.	98	125	353	186
	40	89	July-Sept.	38	39	72	45
American Fork near American Fork, Ut.	33.5	86	Apr.-Sept.	22.0	32	56	39
	8.5	89	July-Sept.	5.0	10.3	13.0	9.6
Jordan River & Salt Lake							
Big Cottonwood near Salt Lake City, Ut.	38	90	Apr.-Sept.	25.8	42	60	42
	8.5	82	July-Sept.	7.0	11.6	14.5	10.4
Parley's Creek near Salt Lake City, Ut.	11.5	68	Apr.-Sept.	4.4	16.1	34	16.9
	2.5	78	July-Sept.	1.2	3.3	4.4	3.2
Sevier River							
Sevier River at Hatch, Ut.	40	70	Apr.-Sept.	42	23.4	101	57
	13.0	83	July-Sept.	11.0	10.6	23.3	15.7
Sevier River near Kingston, Ut.	21.0	54	Apr.-Sept.	14.9	8.1	85	39
	5.0	81	July-Sept.	2.1	3.9	14.0	6.2
Beaver River							
Beaver River near Beaver, Ut.	25.0	76	Apr.-Sept.	17.4	14.8	57	33
	6.0	79	July-Sept.	3.9	4.5	11.9	7.6
Coal Creek							
Coal Creek near Cedar City, Ut.	13.5	73	Apr.-Sept.	14.9	8.1	36	18.5
	2.5	96	July-Sept.	2.5	2.5	3.9	2.6

(5) For nine years 1946-54.
(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.

UTAH STREAMFLOW FORECASTS - APRIL 1, 1955

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet: Forecast Runoff 1955	% 10-Yr. Avg.	Forecast Period	Measured Runoff 1954	1953	1952	10-Yr. Average 1943-52
COLORADO RIVER BASIN							
Upper Green River							
Ashley Creek near Vernal, Ut.	50	77	Apr.-Sept.	44	44	90	65
	16.0	80	July-Sept.	13.5	15.8	26.1	20.0
Duchesne River							
Duchesne River near Tabiona, Ut.(7)	98	72	Apr.-Sept.	66	97	211	136
	21	70	July-Sept.	16.7	28.4	45	30
Strawberry River at Duchesne, Ut.	42	46	Apr.Sept.	35	47	262	92
	13.0	69	July-Sept.	11.9	15.5	47	18.8
Lakefork River below Moon Lake, Ut. (8)	80	96	Apr.-Sept.	48	62	102	83
	27.0	107	July-Sept.	14.0	20.0	37	25.3
Uinta River near Neola, Ut.	95	86	Apr.-Sept.	72	75	157	111
	45	102	July-Sept.	29.2	33	63	44
Whiterocks River near Whiterocks, Ut.	67	89	Apr.-Sept.	45	50	117	75
	23	89	July-Sept.	15.8	18.4	46	25.8
Price River							
Price River near Scofield, Ut. (9)	29.0	64	Apr.-Sept.	14.1	33	110	45
	2.8	78	July-Sept.	1.4	3.2	8.7	3.6
Price River near Heiner, Ut. (9)	40	51	Apr.-Sept.	26.3	47	231	79
	5.5	75	July-Sept.	3.0	7.0	17.9	7.3
San Rafael River							
Huntington Creek near Huntington, Ut.	38	59	Apr.-Sept.	32	57	140	64
	10.0	54	July-Sept.	9.5	22.1	34	18.5
Cottonwood Creek near Orangeville, Ut.	38	56	Apr.-Sept.	32	51	144	68
	8.5	66	July-Sept.	7.6	13.5	25.6	12.8

(7) Observed Flow plus diversion through Duchesne Tunnel.
(8) Observed flow plus change in storage in Moon Lake Reservoir.
(9) Observed flow plus change in storage in Scofield Reservoir.

STATUS OF RESERVOIR STORAGE APRIL 1, 1955

BASIN and STREAM	RESERVOIR	USABLE CAPACITY (1000 OF ACRE FT.)	THOUSAND ACRE FEET IN STORAGE ABOUT APRIL FIRST			
			1955	1954	1953	10-YrAvg. 1943 - 52
Bear River System						
Bear River	Bear Lake	1421.0	753.3	925.5	1015.0	842.0
Little Bear River	Hyrum	15.3	12.2	13.8	15.8	11.2
Weber-Ogden Rivers						
Ogden River	Pine View	43.6	4.6	7.8	18.5	9.4
Weber River	East Canyon	28.7	6.3	16.6	18.5	18.8
Weber River	Echo	73.9	27.2	36.6	46.2	35.2
Provo River & Utah Lake						
Provo River	Deer Creek	144.7	78.9	103.3	119.6	82.7
Spanish Fork River	Strawberry*	270.0	153.6	197.8	227.5	90.0
Utah Lake	Utah Lake*x	1149.0	630.3	786.0	953.3	645.0
Sevier River System						
Sevier River	Otter Creek	52.5	22.4	29.3	50.0	41.3
Sevier River	Piute	74.0	38.2	47.4	71.3	61.8
Sevier River	Sevier Bridge	236.0	103.6	165.0	230.7	187.2
Beaver River						
Beaver River	Rocky Ford	23.3	10.8	13.5	20.8	19.1
Duchesne River						
Lake Fork River	Moon Lake	35.8	11.9	13.5	21.1	16.5
Price River						
Price River	Scofield	65.8	11.5	34.8	50.9	15.7

* Figures for the Strawberry Reservoir obtained from the reports of the Spanish Fork River Comm issioner. All other data contained in this table supplied by U.S.G.S.

x Active capacity taken at 3.1 feet above compromise point.

COMPARATIVE SNOW DATA

Summary of Snow Survey Data by Tributary Watersheds as of April 1, 1955

TRIBUTARY BASINS	No. of Courses Averaged	Years of Record	1955 Snow Water Expressed as Percent of 1954	1953	& Average
GREAT BASIN					
Bear River South of Evanston	2	21-24	103	107	92
Smith's Fork Bear River	4	7-19	74	92	87
Logan River	6	24-31	104	120	98
Blacksmith Fork, Little Bear	6	3-31	115	120	101
Ogden River, South Fork	3	3-22	129	124	102
Weber River above Echo Dam	10	3-26	114	116	95
East Canyon Creek	3	20-24	118	105	99
Farmington Area	3	4-19	122	77	77
Salt Lake Area	4	20-24	124	105	102
American Fork River	3	20-24	118	153	105
Provo River above Vivian Park	7	20-25	116	122	101
Strawberry Reservoir	3	21-25	111	119	92
Hobble Creek	1	19	108	109	82
Payson Creek	1	12	135	128	98
Sevier River South of Richfield	9	19-25	86	165	80
Salina Creek	2	4-25	149	122	110
Mt. Pleasant Area	3	25-27	102	92	79
Ephraim Area	2	25	94	102	90
Mayfield Area	2	4	125	117	90
Chalk Creek-Fillmore	2	6-24	144	116	128
Beaver River	3	19-24	96	159	87
Parowan Creek	2	12	136	108	87
Coal Creek-Cedar City	2	20-28	74	172	81
COLORADO RIVER BASIN					
Duchesne-Strawberry Rivers above Duchesne	5	21-25	109	114	93
Lakefork River	1	24	111	148	116
Whiterocks-Uintah Rivers	2	23-25	86	178	103
Ashley Creek	4	23-25	81	159	96
Price River	7	6-27	104	104	83
San Rafael	3	25-27	94	96	75
Muddy River	1	8	126	92	94
Fremont River	2	4-24	114	106	110
Escalante River	2	5-23	156	210	103
Virgin River	5	19-28	75	178	78
Southeastern Utah (near Moab)	1	24	135	103	100
Southeastern Utah (near Monticello)	1	25	113	133	97

UTAH SNOW SURVEYS APRIL 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
GREAT BASIN DRAINAGE									
Bear River above Harer, Idaho									
Hayden Fork	10J7	9300	3/31	59.9	17.6	--	16.3	20.8	3
Stillwater Camp	10J17	8550	3/31	43.0	11.3		New Course		
Head of Bear River (Deadman)	10J5	8600	3/31	32.9	8.3	8.3	8.5	9.4	21
Goodman Ranch	10J6	7900	3/31	26.5	7.3	5.6	6.2	5.5	17
Monte Cristo R. S.	11H12	8960	3/31	74.6	26.9	22.3	23.4	25.3	22
Poison Meadows, (Wyo.)*	10G6	8500	3/27	81.9	22.5	33.5	25.0	30.5	7
Snyder Basin R.S., (Wyoming)*	10G9	8040	3/27	45.1	12.2	18.4	13.3	13.9	18
Piney LaBarge, (Wyoming)*	10G10	8820	3/27	58.6	16.4	22.9	15.4	18.4	18
Big Park, (Wyoming)	10G11	8700	3/28	56.0	16.6	23.7	18.0	23.9	4
Kelly R.S. (Wyoming)	10G12	8200	3/28	52.2	15.3	20.4	15.9	20.4	4
Salt River Summit, (Wyoming)*	10G8	7900	3/28	43.9	12.1	16.3	13.0	17.0	7
CCC Camp, (Wyoming)*	10G7	7500	3/28	40.0	10.8	12.9	10.9	11.9	19
Bear River below Harer, Idaho									
Garden City Summit	11H7	7900	3/30	46.5	14.6	19.5	14.5	19.5	24
Emigrant Summit, (Ida.)	11G6	7700	3/29	58.9	18.6	22.1	21.4	25.1	19
Emigration Canyon (mouth), Idaho	11G7	6500	3/29	31.8	8.7	9.3	8.0	8.6	2
Slug Creek Divide, (Idaho)	11G5	7300	3/28	42.0	11.8	14.7	11.8	15.9	18
Strawberry Mink Divide (Idaho)x	11G10	6800	3/28	56.6	19.7		New Course		
Strawberry Creek (Idaho)x	11G9	5800	3/28	36.4	12.3		New Course		
Christiansen Ranch (Idaho)x	11G11	5600	3/29	32.7	10.1		New Course		
Willow Flat (Idaho)x	11G4	6100	4/4	51.8	15.8		New Course		
Cub River R. S. (Idaho)x	11G12	5400	4/4	35.2	10.8		New Course		
Franklin Basin R. S. (Idaho)	11G8	8200	3/28	65.3	23.8	23.3	23.7	26.6	31
Klondike Narrows	11H1	7400	3/28	54.1	18.8	15.4	--	15.4	1
Tony Grove R. S.	11H3	6250	3/30	35.0	11.2	7.5	6.7	8.9	29
Mt. Logan	11H6	9000	4/2	74.8	27.6	27.9	26.0	29.5	31
Spring Hollow (upper)	11H5	8000	4/2	73.1	23.3	24.1	22.3	25.4	31
Spring Hollow (lower)	11H4	7000	4/2	44.3	15.8	15.0	11.3	14.1	31

*Adjacent Drainage.
xLocation of these courses given at end of this section.

UTAH SNOW SURVEYS APRIL 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	1955 Snow Depth (In.)	1955 Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
GREAT BASIN DRAINAGE									
Bear River below Harer, Idaho Cont'd.									
Monte Cristo R. S.	11H12	8960	3/31	74.6	26.9	22.3	23.4	25.3	22
Dry Bread Pond*	11H13	8230	3/31	56.7	20.1	14.7	16.2	18.9	17
Beaver Creek-Skunk Cr.*	11H14	7150	3/31	42.9	14.6	11.2	11.0	15.4	3
Oxford Mountain (Idaho)[x]	12G3	6800	4/7	26.3	9.1	New Course			
Dry Creek Flat (Idaho)[x]	12G4	6350	4/7	22.2	9.4	New Course			
Ogden River									
Monte Cristo R. S.*	11H12	8960	3/31	74.6	26.9	22.3	23.4	25.3	22
Dry Bread Pond	11H13	8230	3/31	56.7	20.1	14.7	16.2	18.9	17
Beaver Creek-Skunk Cr.	11H14	7150	3/31	42.9	14.6	11.2	11.0	15.4	3
Sagebrush Flat	11H15	6300	3/31	13.8	4.2	0.8	2.3	1.6	2
Ben Lomond Peak	11H8	8000	3/31	75.3	27.5	28.3	36.4	39.4	4
Ben Lomond (Lower)	11H9	6000	3/31	46.3	16.6	14.4	--	14.4	1
Mt. Ogden	11H10	8600	3/30	55.6	21.0	24.0	27.1	32.5	7
Snow Basin	11H11	6500	3/30	41.0	14.8	14.2	--	16.4	6
Weber River									
Trial Lake*	10J8	9800	3/31	84.4	25.3	23.9	21.8	26.4	24
Smith & Morehouse	11J4	7600	3/30	39.2	11.6	10.2	10.2	13.0	26
Redden Mine (upper)	11J5	9000	4/1	70.3	20.8	16.6	16.2	20.5	25
Redden Mine (lower)	11J6	8500	4/1	57.3	19.4	16.2	14.6	19.4	25
Beaver Creek R. S.	11J24	7500	3/31	27.9	9.1	7.3	7.4	8.1	23
Chalk Creek #1	11J1	9100	4/2	68.9	22.0	23.6	20.1	27.6	4
Chalk Creek #2	11J2	8200	4/2	45.6	14.1	15.2	13.4	17.4	4
Chalk Creek #3	11J3	7500	4/2	27.1	8.5	6.3	6.3	9.0	3
Silver Lake*	11J16	8725	3/30	74.0	27.9	25.8	24.8	25.9	24
Parley's Canyon Summit	11J15	7500	3/31	48.9	16.2	13.3	18.3	18.1	21
Lamb's Canyon*	11J14	6600	3/30	46.2	15.9	12.8	13.9	15.9	20
Provo River and Utah Lake									
Trial Lake	10J8	9800	3/31	84.4	25.3	23.9	21.8	26.4	24
Soapstone R. S.	11J25	7800	3/31	38.4	11.2	10.6	11.9	12.0	24
Daniels-Strawberry Summit	11J23	8000	3/30	50.2	15.5	14.1	10.6	15.0	25
Strawberry Divide	11J8	8000	3/28	58.8	18.0	16.6	17.6	21.1	21
East Portal	11J7	7560	3/28	39.5	11.1	9.7	10.1	12.6	21

*On Adjacent Drainage.
[x]Location of these courses given at end of this section.

UTAH SNOW SURVEYS APRIL 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	1955 Snow Depth (In.)	1955 Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
GREAT BASIN DRAINAGE									
Provo River and Utah Lake Cont'd.									
Hobble Creek Summit	11J22	7300	3/30	38.1	11.8	10.9	10.8	14.4	19
Packard Canyon	11J31	6400	3/30	26.8	7.8		New Course		
Clear Creek Ridge #1	11K21	9200		N.S.			New Course		
Clear Creek Ridge #2	11K22	8000	3/29	47.4	13.7		New Course		
Clear Creek Ridge #3	11K23	6600	3/29	18.1	5.8		New Course		
Payson R. S.	11K1	8050	3/31	55.0	19.1	14.1	14.9	19.5	12
Rock Bridge	11K2	6750	3/31	43.8	15.2	8.7	10.8	9.8	2
Dutchman R. S.	11J17	7500	3/28	56.1	19.8	15.3	13.9	18.9	24
Timpanogas Divide	11J21	8200	3/28	69.2	27.8	25.6	17.8	26.0	20
Camp Altamont	11J20	7300	3/28	51.7	18.5	15.9	11.5	18.1	20
South Fork R. S.	11J19	6100	3/28	16.2	7.2	3.3	3.3	5.1	20
Timpanogas Cave Camp	11J18	5500	3/28	9.1	4.0	1.2	0.0	1.6	20
Jordan River and Great Salt Lake									
Silver Lake	11J16	8720	3/30	74.0	27.9	25.8	24.8	25.9	24
Mill D. South Fork	11J10	7400	3/30	60.6	22.8	16.2	21.6	20.6	20
Lamb's Canyon	11J14	6600	3/30	46.2	15.9	12.8	13.9	15.9	20
Parley's Canyon Summit*	11J15	7500	3/31	48.9	16.2	13.3	18.3	18.1	21
Farmington Canyon (upper)	11J11	8000	3/29	63.9	23.4	20.4	30.8	31.3	4
Farmington Canyon (lower)	11J12	6950	3/28	56.2	21.5	17.9	25.7	27.2	4
Barnard Creek	11J13	8000	3/29	57.1	21.6	16.6	30.1	28.0	19
Rocky Basin-Settlement Canyon	12J1	8900	4/6	85.8	29.9	17.2	--	17.2	1
Bevan's Cabin	12J2	6450	4/6	43.8	13.4	--	--	--	
Middle Canyon	12J3	7000	3/29	39.1	13.3	15.0	--	15.0	1
Sevier River above Richfield									
Cedar Breaks	12M1	10390	3/24	56.6	20.4	25.6	15.4	25.4	20
Midway Valley	12M2	9400	3/24	56.5	19.4	28.8	--	28.8	1
Duck Creek R. S.	12M4	8560	3/30	33.3	11.5	17.1	6.4	17.5	20
Harris Flat R. S.	12M5	7700	3/30	22.4	8.5	10.8	1.4	9.6	24
Long Valley Junction*	12M6	7500	3/30	0.0	0.0	3.9	0.0	5.1	19
Panguitch Lake	12M7	8200	3/31	11.2	3.0	4.7	1.3	5.8	25
Bryce Canyon	12M8	8000	3/31	11.0	3.5	3.4	0.0	5.8	19
Widtsoe-Escalante Summit	11M1	9500	3/31	23.2	7.4	4.0	2.7	8.5	23
Widtsoe-Escalante #2	11M2	9500	3/31	34.7	10.0	7.9	6.9	8.4	5

*On Adjacent Drainage.
N. S. - No Survey.

UTAH SNOW SURVEYS APRIL 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
GREAT BASIN DRAINAGE									
Sevier River above Richfield Cont'd.									
Fish Lake*	11L3	8700	3/25	29.4	8.4	8.0	8.0	7.3	24
Box Creek	12L4	9800	3/27	38.7	10.4	8.9	--	8.9	1
Squaw Springs	12L5	9300	3/27	22.8	6.1	5.2	--	5.2	1
Big Flat*	12L7	10000	3/31	54.8	17.6	20.6	12.8	20.8	19
Kimberly Mine (upper)	12L6	8900	3/24	46.0	14.6	16.5	14.4	17.8	20
Sevier River below Richfield (including San Pitch River)									
Farnsworth Lake	11L1	9900	3/30	59.3	18.4	15.0	17.4	17.6	4
Gooseberry R. S.	11L2	8400	3/30	40.0	12.4	7.1	10.9	10.6	25
Huntington-Horseshoe*	11K5	9800	3/31	53.9	18.2	19.2	21.4	25.4	25
Gooseberry Reservoir*	11K4	8700	3/31	50.1	15.9	14.7	17.4	19.8	27
Mammoth R. S.- Cottonwood Creek	11K3	8800	3/31	55.2	17.7	17.4	17.7	21.0	26
G.B.R.C. Meadows	11K10	10000	4/1	67.5	22.1	24.0	21.7	24.8	25
G.B.R.C. Headquarters	11K11	8700	4/1	49.6	15.0	15.7	14.5	16.7	25
Mt. Baldy R. S.	11K12	9500	3/29	65.4	21.5	20.6	19.9	25.7	4
Beaver Dams	11K13	8000	3/29	40.0	12.3	8.4	9.8	12.9	4
Pine Creek	12L1	8700	3/29	48.0	19.1	12.2	16.2	15.1	6
Pine Creek-Chalk Creek	12L2	8500	3/29	42.8	16.3	12.5	14.3	12.4	24
Bear Canyon	12L3	7200	3/28	31.8	11.4	9.1	--	9.1	1
Beaver River									
Big Flat	12L7	10000	3/31	54.8	17.6	20.6	12.8	20.8	19
Otter Lake	12L8	9300	3/31	43.4	13.5	16.7	10.0	17.4	19
Merchant's Valley	12L9	8200	3/31	34.9	10.8	8.8	5.3	11.0	24
Parowan Creek									
Yankee Reservoir	12M11	8700	3/15	33.0	10.0	7.6	9.5	11.6	12
Ed Ward Flat	12M12	8300	3/15	25.5	7.9	5.6	7.1	9.0	12
Coal Creek									
Cedar Breaks*	12M1	10390	3/24	56.6	20.4	25.6	15.4	25.4	20
Midway Valley*	12M2	9400	3/24	56.5	19.4	28.8	--	28.8	1
Webster Flat*	12M3	9200	3/24	42.3	14.7	21.4	6.9	17.9	28
ie Flat	12M10	8450	3/24	14.8	6.2	8.5	--	8.5	1

*On Adjacent Drainage.

UTAH SNOW SURVEYS APRIL 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	1955 Snow Depth (In.)	1955 Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
GREAT BASIN DRAINAGE									
Enterprise to New Harmony									
Long Flat	13M2	8200	3/23	17.7	7.8		New Course		
Pine Valley*	13M1	9150	3/25	39.2	14.8	18.4	7.8	20.1	19
Rattlesnake Springs	13M3	6500	3/22	14.6	6.4		New Course		
COLORADO RIVER DRAINAGE									
Upper Green River in Utah									
Hewinta R. S.	10J4	9500	4/1	35.8	8.3	--	10.0	9.4	21
Hole-in-the-Rock	10J1	9150	3/29	23.7	6.1	6.2	5.5	5.7	24
Middle Beaver Creek	10J2	8550	3/29	21.0	5.4	5.3	--	5.3	1
Hole-in-the-Rock R. S.	10J3	8300	3/29	12.2	3.2	0.5	--	0.5	1
King's Cabin (upper)	9J1	8800	4/5	36.6	10.4	13.5	8.0	10.7	25
King's Cabin (lower)	9J2	8600	4/5	29.4	7.9	10.7	5.3	9.7	25
Duchesne River									
Trial Lake*	10J8	9800	3/31	84.4	25.3	23.9	21.8	26.4	24
Soapstone R. S.*	11J25	7800	3/31	38.4	11.2	10.6	11.9	12.0	24
Daniels-Strawberry Summit*	11J23	8000	3/30	50.2	15.5	14.1	10.6	15.0	25
Strawberry Divide*	11J8	8000	3/28	58.8	18.0	16.6	17.6	21.1	21
East Portal*	11J7	7560	3/28	39.5	11.1	9.7	10.1	12.6	21
Indian Canyon	10K1	9100	3/31	37.2	11.0	11.2	5.3	10.7	25
Brown Duck Lake	10J9	10300	No Report			16.1	14.2	19.6	11
Lakefork Mountain	10J10	10500	4/1	47.8	13.8	12.4	9.3	11.9	24
Lakefork Mountain #2	10J11	8900	4/1	35.8	11.2	8.9	4.3	6.6	2
Lakefork Mountain #3	10J12	8100	4/1	34.7	10.2	7.6	0.5	4.0	2
Paradise Park	9J3	10500	4/4	45.8	13.4	16.0	8.5	12.8	23
Mosby Mountain (lower)	9J5	9500	4/4	41.5	11.7	13.1	5.9	11.6	25
Price River									
Huntington-Horseshoe	11K5	9800	3/31	53.9	18.2	19.2	21.4	25.4	25
Gooseberry Reservoir	11K4	8700	3/31	50.1	15.9	14.7	17.4	19.8	27
Mammoth R. S.-Cottonwood Creek*	11K3	8800	3/31	55.2	17.7	17.4	17.7	21.0	26
Mud Creek	11K6	8250	3/31	40.0	13.7	14.3	18.8	20.6	6
Mud Creek #2	11K33	8300	3/31	37.4	11.2		New Course		
Staley Ranch	11K7	7600	3/31	20.4	5.7	0.0	0.5	6.4	19

*On Adjacent Drainage.

UTAH SNOW SURVEYS APRIL 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
COLORADO RIVER DRAINAGE									
Price River Cont'd.									
Clear Creek	11K18	8150	3/31	20.4	6.1	--	--	7.2	13
Dry Valley Divide	11K8	7800	3/31	36.5	11.3	9.5	6.5	10.8	20
White River #1	10K2	8600		No Report			New Course		
White River #2	11K24	7600		No Report			New Course		
White River #3	11K25	7400	3/31	31.7	9.6		New Course		
Indian Canyon*	10K1	9100	3/31	37.2	11.0	11.2	5.3	10.7	25
San Rafael River									
Huntington-Horseshoe	11K5	9800	3/31	53.9	18.2	19.2	21.4	25.4	25
Switchback	11K26	8600	3/31	45.1	14.8		New Course		
Stuart R. S.	11K27	7950	3/31	23.8	7.7		New Course		
Red Pine Ridge	11K28	9400	3/21	43.3	13.8		New Course		
Middle Mountain	11K29	8750	3/21	21.5	6.1		New Course		
Wilberg Ranch	11K30	7800	3/21	Patchy			New Course		
Seeley Creek R. S. #2	11K9	10000	4/1	35.0	11.3	14.3	10.1	15.6	25
Ferron Reservoir	11K31	9500		No Report			New Course		
Wrigley Creek	11K32	9000	3/22	21.2	6.5		New Course		
Muddy River									
Black Fork	11K14	9200	4/5	47.8	14.4	11.4	15.6	15.4	8
Dill's Camp	11K15	9200		N.S.		9.3	13.4	13.4	7
Mt. Baldy R. S.*	11K12	9500	3/29	65.4	21.5	20.6	19.9	25.7	4
Fremont River									
Farnsworth Lake	11L1	9900	3/30	59.3	18.4	15.0	17.4	17.6	4
Fish Lake	11L3	8700	3/25	29.4	8.4	8.0	8.0	7.3	24
Johnson Valley	11L6	8850	3/25	23.7	6.2		New Course		
Black's Flat - U. M. Creek	11L4	9250	3/25	31.9	9.5	6.3	--	6.3	1
Donkey Reservoir	11L5	9800	3/24	24.5	5.8	5.1	--	5.1	1
Escalante River									
Widtsoe-Escalante Summit Summit	11M1	9500	3/31	23.2	7.4	4.0	2.7	8.5	23
Widtsoe-Escalante #2*	11M2	9500	3/31	34.7	10.0	7.9	6.9	8.4	5

*On Adjacent Drainage.

N.S. - No Survey.

UTAH SNOW SURVEYS APRIL 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
COLORADO RIVER DRAINAGE									
Virgin River									
Long Valley Junction	12M6	7500	3/30	0.0	0.0	3.9	0.0	5.1	19
Harris Flat R. S.*	12M5	7700	3/30	22.4	8.5	10.8	1.4	9.6	24
Duck Creek R. S.*	12M4	8560	3/30	33.3	11.5	17.1	6.4	17.5	20
Midway Valley*	12M2	9400	3/24	56.5	19.4	28.8	--	28.8	1
Cedar Breaks*	12M1	10390	3/24	56.6	20.4	25.6	15.4	25.4	20
Webster Flat	12M3	9200	3/24	42.3	14.7	21.4	6.9	17.9	28
Pine Valley	13M1	9150	3/25	39.2	14.8	18.4	7.8	20.1	19
Lower Colorado River (Southeastern Utah)									
LaSal Mountain	9L1	8800	3/24	33.2	10.0	7.4	9.7	10.0	24
Buckboard Flat	9M1	9000	3/19	45.8	14.0	12.4	10.5	14.4	25

*On Adjacent Drainage.

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INDEX OF NEW SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
GREAT BASIN DRAINAGE					
Bear River below Harer, Idaho					
Strawberry-Mink Divide, Idaho	11G10	14	13S	41E	6800
Strawberry Creek, Idaho	11G9	9	13S	41E	5800
Christiansen Ranch, Idaho	11G11	27	13S	41E	5600
Willow Flat	11G4	2	15S	41E	6100
Cub River R. S.	11G12	5	15S	41E	5400
Oxford Mountain	12G3	32	13S	37E	6800
Dry Creek Flat	12G4	31	13S	37E	6350

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

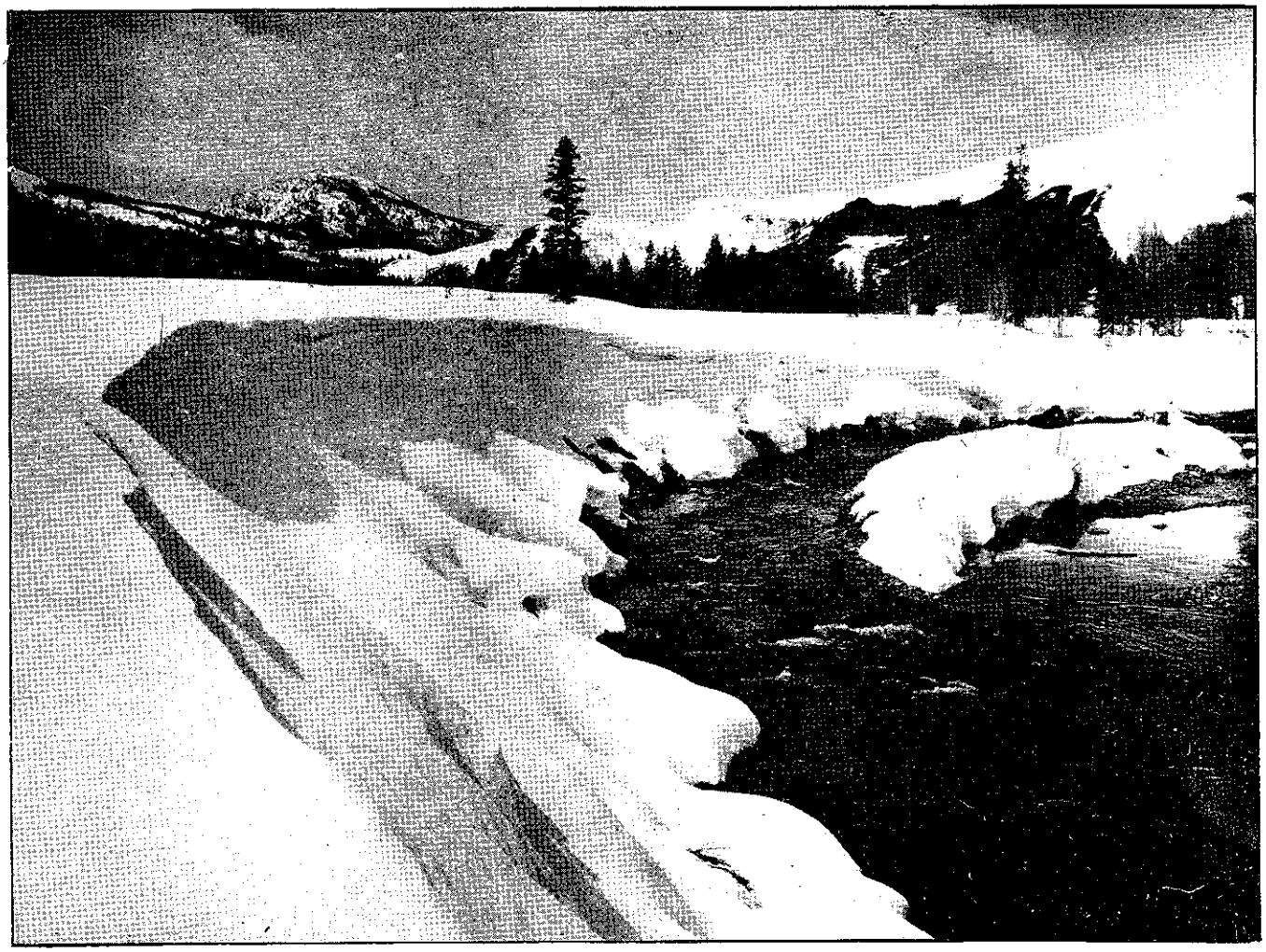
Utah Agricultural Experiment Station
Utah State Engineer
- Little Bear River Commissioner
- Price River Commissioner
- Provo River Commissioner
- Sevier River Commissioner
- Spanish Fork River Commissioner
- Weber River Commissioner

Municipalities or Quasi-Municipalities

Salt Lake City Corporation

Organized Public Agencies

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



Federal-State Cooperative Snow Surveys and Water Supply Forecasts for UTAH

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
AND

STATE ENGINEER OF UTAH
UTAH AGRICULTURAL EXPERIMENT STATION
IN COOPERATION WITH

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

AS OF
MAY 1, 1955

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS and WATER SUPPLY FORECASTS

for

U T A H

MAY 1, 1955

Report Prepared
by
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and
Utah Agricultural Experiment Station

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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.

FORECAST WATER SUPPLY

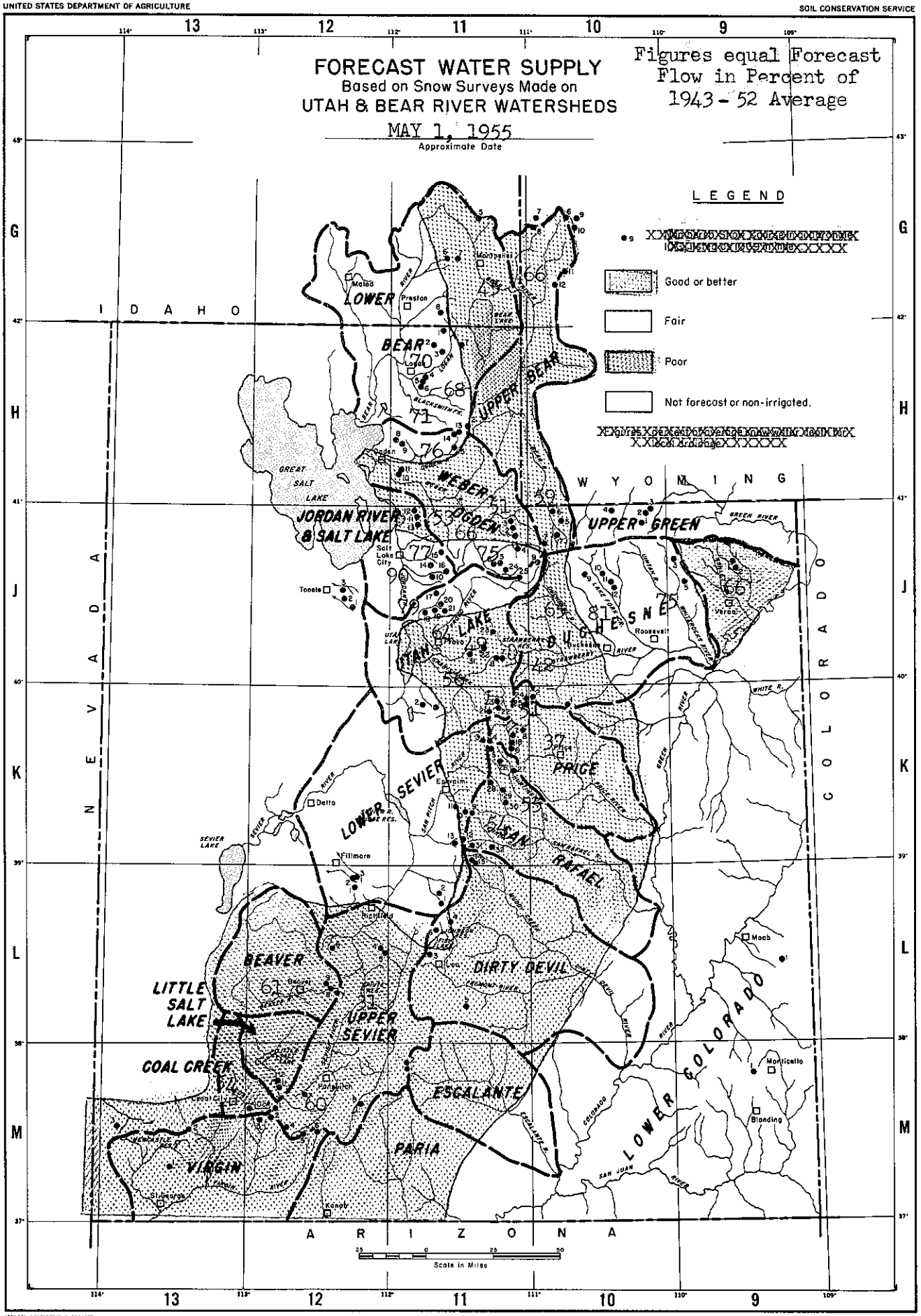
Based on Snow Surveys Made on

UTAH & BEAR RIVER WATERSHEDS

MAY 1, 1955

Approximate Date

Figures equal Forecast Flow in Percent of 1943 - 52 Average



WATER SUPPLY OUTLOOK

FOR UTAH

MAY 1, 1955

Very low precipitation during April on most of the watersheds of the State, particularly in the eastern and southern portions, has materially reduced the overall water supply prospects from that which was forecast on April 1. Only on the streams at Salt Lake and on the Logan River was precipitation near enough average that runoff forecasts were not reduced below those of last month.

The below average temperatures of the month have retarded snowmelt to the point that many of the higher elevation snow courses now show more snow water than they did a month ago, even though precipitation was below average for the month.

Mild to severe water shortages can be expected in most areas of the State. The Richfield-to-Gunnison area, which is dependent on storage in and inflow into Piute and Otter Creek reservoirs, will suffer the most. April thru September flow at the Sevier River near Kingston gaging station will be about 30 percent of average. This is but slightly above the yield experienced during the drought year of 1951. Also, there was 10,400 acre-feet less combined storage in Piute and Otter Creek reservoirs this year than there was on May 1, 1951.

Streamflow of 40 to 65 percent of average is expected on the following streams: Bear River stations above Harer, Idaho, Weber River at Coalville, Chalk Creek at Coalville, East Canyon Creek, Provo River at Vivian Park, Spanish Fork River, Hobble Creek near Springville, the streams on the Colorado drainage from Price south to the Escalante and Paria rivers, the Virgin, Sevier at Hatch and Beaver Rivers, Parowan Creek, Coal Creek at Cedar City and Ashley Creek, Strawberry and Duchesne River in the Uintah Basin.

Elsewhere, streamflow will vary from about 70 percent to near average, with best prospects being in the Fillmore and Salt Lake City area.

Detailed forecasts are given on Pages 2, 3 and 4.

UTAH STREAMFLOW FORECASTS - MAY 1, 1955

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

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1955	% 10-Yr. Avg.	Forecast Period	Measured Runoff 1954	1953	1952	10-Yr. Average 1943-52
GREAT BASIN							
Bear River System							
Bear River near Evanston, Wyo.	95	59	Apr.-Sept.	55	113	268	161
Smith's Fork near Border, Wyo.	80	66	Apr.-Sept.	89	99	126	122
Bear River at Harer, Idaho	155	45	Apr.-Sept.	100	184	487	345
Little Bear River near Paradise, Utah	37	71	Apr.-Sept.	20.7	34	77	52
Logan River near Logan, Utah (1)	108	70	Apr.-Sept.	86	121	169	154
Blacksmith Fork near Hyrum, Utah (2)	50	68	Apr.-Sept.	39	50	109	73
Weber-Ogden Rivers							
Weber River Near Oakley, Utah	106	75	Apr.-Sept.	82	117	192	141
Weber River near Coalville, Utah (3)	103	66	Apr.-Sept.	67	112	258	157
Chalk Creek at Coalville, Utah	25.0	51	Apr.-Sept.	13.2	28.1	85	49
East Canyon Creek near Morgan, Utah (4)	18.0	53	Apr.-Sept.	6.6	22.9	67	34

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

UTAH STREAMFLOW FORECASTS - MAY 1, 1955

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1955	% 10-Yr. Avg.	Forecast Period	Measured Runoff 1954	1953	1952	10-Yr. Average 1943-52
			GREAT BASIN				
Weber-Ogden Rivers - Cont'd.							
South Fork Ogden River near Huntsville, Utah	58	76	Apr.-Sept.	36	60	112	76
Provo River & Utah Lake							
Spanish Fork at Thistle, Utah	27.0	56	Apr.-Sept.	20.5	29.7	146	48
Hobble Creek near Springville, Utah	13.0	49	Apr.-Sept.	8.6	17.1	73	26.6(5)
Provo River at Vivian Park, Utah (6)	121	65	Apr.-Sept.	98	125	353	186
American Fork near American Fork, Utah	31	79	Apr.-Sept.	22.0	32	56	39
Jordan River & Salt Lake							
Big Cottonwood near Salt Lake City, Utah	38	90	Apr.-Sept.	25.8	42	60	42
Parley's Creek near Salt Lake City, Utah	13.0	77	Apr.-Sept.	4.4	16.1	34	16.9
Sevier River							
Sevier River at Hatch, Utah	34	60	Apr.-Sept.	42	23.4	101	57
Sevier River near Kingston, Utah	12.0	31	Apr.-Sept.	14.9	8.1	85	39
Beaver River							
Beaver River near Beaver, Utah	20.0	61	Apr.-Sept.	17.4	14.8	57	33

(5) For nine years 1946-54.
(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.

UTAH STREAMFLOW FORECASTS - MAY 1, 1955

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet						
	Forecast Runoff 1955	% 10-Yr. Avg.	Forecast Period	Measured Runoff 1954	1953	1952	10-Yr. Average 1943-52
GREAT BASIN							
Coal Creek							
Coal Creek near Cedar City, Utah	10.0	54	Apr.-Sept.	14.9	8.1	36	18.5
COLORADO RIVER BASIN							
Upper Green River							
Ashley Creek near Vernal, Utah	43	66	Apr.-Sept.	44	44	90	65
Duchesne River							
Duchesne River near Tabiona, Utah (7)	88	65	Apr.-Sept.	66	97	211	136
Strawberry River at Duchesne, Utah	39	42	Apr.-Sept.	35	47	262	92
Lakefork River below Moon Lake, Utah (8)	67	81	Apr.-Sept.	48	62	102	83
Uinta River near Neola, Utah	83	75	Apr.-Sept.	72	75	157	111
Whiterocks River near Whiterocks, Utah	56	75	Apr.-Sept.	45	50	117	75
Price River							
Price River near Scofield, Utah (9)	23.0	51	Apr.-Sept.	14.1	33	110	45
Price River near Heiner, Utah (9)	29.0	37	Apr.-Sept.	26.3	47	231	79
San Rafael River							
Huntington Creek near Huntington, Utah	35	55	Apr.-Sept.	32	57	140	64
Cottonwood Creek near Orangeville, Utah	37	54	Apr.-Sept.	32	51	144	68

(7) Observed Flow plus diversion through Duchesne Tunnel.
(8) Observed flow plus change in storage in Moon Lake Reservoir.
(9) Observed flow plus change in storage in Scofield Reservoir.

STATUS OF RESERVOIR STORAGE MAY 1, 1955

BASIN and STREAM	RESERVOIR	USABLE CAPACITY (1000 OF ACRE FT.)	THOUSAND ACRE FEET IN STORAGE ABOUT MAY FIRST			
			1955	1954	1953	10-Year Average 1943-52
Bear River System						
Bear River	Bear Lake	1421.0	790.8	959.0	1026.2	927.5
Little Bear River	Hyrum	15.3	15.3	15.3	15.5	14.0
Weber-Ogden Rivers						
Ogden River	Pine View	43.6	19.4	30.9	36.7	30.1
Weber River	East Canyon	28.7	11.8	19.4	24.5	25.6
Weber River	Echo	73.9	41.3	49.0	62.4	57.2
Provo River & Utah Lake						
Provo River	Deer Creek	144.7	90.1	108.2	111.7	90.4
Spanish Fork River	Strawberry*	270.0	160.4	208.4	232.8	104.2
Utah Lake	Utah L ake*x	1149.0	646.4	766.3	946.2	690.3
Sevier River System						
Sevier River	Otter Creek	52.5	25.3	33.0	51.7	47.3
Sevier River	Piute	74.0	36.1	58.6	59.0	63.2
Sevier River	Sevier Bridge	236.0	108.0	155.6	215.4	192.5
Beaver River						
Beaver River	Rocky Ford	23.3	10.3	12.7	19.6	19.6
Duchesne River						
Lake Fork River	Moon Lake	35.8	13.5	13.9	22.2	16.2
Price River						
Price River	Scofield	65.8	14.8	37.1	54.0	22.8

* Figures for the Strawberry Reservoir obtained from the reports of the Spanish Fork River Commissioner. All other data contained in this table supplied by U.S.G.S.

x Active capacity taken at 3.1 feet above compromise point.

UTAH SNOW SURVEYS MAY 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	1955 Snow Depth (In.)	1955 Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
GREAT BASIN DRAINAGE									
Bear River above Harer, Idaho									
Hayden Fork	10J7	9300	5/2	34.2	14.0	-	10.9	10.9	1
Stillwater Camp	10J17	8550	5/2	Patchy			New Course		
Head of Bear River (Deadman)	10J5	8600	5/2	0.0	0.0	-	-	-	-
Goodman Ranch	10J6	7900	5/2	0.0	0.0	-	-	-	-
Monte Cristo R. S.	11H12	8960	4/29	65.7	28.8	18.3	22.6	25.8	4
Snyder Basin R.S., (Wyo.)*	10G9	8040	4/28	8.6	2.9	6.5	10.7	8.7	19
Piney LaBarge, (Wyo.)*	10G10	8820	4/28	26.3	9.3	7.9	14.7	14.0	19
Big Park, (Wyo.)	10G11	8700	4/30	52.7	18.3	19.4	16.7	21.7	3
Salt River Summit, (Wyo.)*	10G8	7900	4/29	27.0	9.9	8.1	-	8.1	1
CCC Camp, (Wyo.)*	10G7	7500	4/29	22.4	7.5	2.7	2.4	4.7	5
Bear River below Harer, Idaho									
Garden City Summit	11H7	8000	4/29	33.7	13.7	9.3	13.0	12.7	3
Franklin Basin R.S. (Ida.)	11G8	8200	4/27	69.1	28.8	-	-	-	-
Klondike Narrows	11H1	7400	4/27	38.5	15.6	-	-	-	-
Mt. Logan	11H6	9000	5/3	76.3	31.3	23.0	26.9	27.7	28
Spring Hollow (upper)	11H5	8000	5/3	76.9	28.6	21.6	24.2	24.6	28
Spring Hollow (lower)	11H4	7000	5/3	25.1	10.0	0.0	3.1	6.8	16
Monte Cristo R. S.	11H12	8960	4/29	65.7	28.8	18.3	22.6	25.8	4
Dry Bread Pond*	11H13	8230	4/29	41.4	19.5	6.0	12.9	13.3	4
Beaver Creek-Skunk Cr.*	11H14	7150	4/29	17.0	8.4	0.0	0.6	4.1	3
Oxford Mountain, (Ida.)x	12G3	6800	5/2	5.8	2.6		New Course		
Dry Creek Flat, (Ida.)x	12G4	6350	5/2	0.0	0.0		New Course		
Ogden River									
Monte Cristo R. S.*	11H12	8960	4/29	65.7	28.8	18.3	22.6	25.8	4
Dry Bread Pond	11H13	8230	4/29	41.4	19.5	6.0	12.9	13.3	4
Beaver Creek-Skunk Cr.	11H14	7150	4/29	17.0	8.4	0.0	0.6	4.1	3
Ben Lomond Peak	11H8	8000	5/3	66.9	31.0	13.1	33.8	30.8	4
Ben Lomond (lower)	11H9	6000	5/3	14.5	6.6	0.0	-	0.0	1
Mt. Ogden	11H10	8600	4/25	59.8	24.8	13.3	31.8	28.4	4
Snow Basin	11H11	6500	4/25	19.4	8.3	0.0	-	0.0	1

*Adjacent Drainage.
xLocation of these courses given at end of this section.

UTAH SNOW SURVEYS MAY 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	1955 Snow Depth (In.)	1955 Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
GREAT BASIN DRAINAGE									
Weber River									
Trial Lake*	10J8	9800	5/2	69.9	27.0	21.8	21.8	29.8	7
Smith & Morehouse	11J4	7600	4/30	13.1	4.6	0.0	4.7	5.8	4
Redden Mine (upper)	11J5	9000	4/30	59.0	21.6	2.9	14.4	15.5	4
Redden Mine (lower)	11J6	8500	4/30	45.6	17.6	0.0	12.6	13.2	4
Beaver Creek R. S.	11J24	7500	4/29	0.0	0.0	0.0	0.0	0.0	4
Chalk Creek #1	11J1	9100	5/3	53.0	19.4	17.3	19.9	25.0	4
Chalk Creek #2	11J2	8200	5/3	25.3	8.5	6.1	10.9	11.3	4
Chalk Creek #3	11J3	7500	5/3	0.0	0.0	0.0	0.0	0.0	3
Silver Lake*	11J16	8725	4/27	60.5	22.9	14.3	23.9	25.6	4
Parley's Canyon Summit	11J15	7500	4/29	28.9	11.9	0.0	14.9	10.0	4
Lamb's Canyon*	11J14	6600	4/27	33.6	10.6	0.0	8.6	5.4	4
Provo River and Utah Lake									
Trial Lake	10J8	9800	5/2	69.9	27.0	21.8	21.8	29.8	7
Soapstone R. S.	11J25	7800	4/29	19.9	6.7	0.0	3.6	2.9	5
Daniel's-Strawberry Summit	11J23	8000	4/29	21.4	8.3	0.0	1.9	8.0	3
Hobble Creek Summit	11J22	7300	4/27	11.3	4.7	-	-	-	-
Clear Creek Ridge #1	11K21	9200	4/26	42.5	16.0		New Course		
Clear Creek Ridge #2	11K22	8000	4/26	27.9	10.9		New Course		
Clear Creek Ridge #3	11K23	6600	4/26	0.0	0.0		New Course		
Payson Ranger Station	11K1	8050	4/28	37.8	17.0	0.6	-	0.6	1
Rock Bridge	11K2	6750	4/28	20.2	9.2	0.0	-	0.0	1
Dutchman R. S.	11J17	7500	4/28	27.4	13.2	-	-	-	-
Timpanogas Divide	11J21	8200	4/28	44.8	21.6	14.8	12.6	18.6	15
Camp Altamont	11J20	7300	4/28	22.0	10.2	-	0.0	16.6	2
Jordan River and Great Salt Lake									
Silver Lake	11J16	8720	4/27	60.5	22.9	14.3	23.9	25.6	4
Mill D. South Fork	11J10	4700	4/27	49.4	18.7	0.0	16.0	12.1	3
Lamb's Canyon	11J14	6600	4/27	33.6	10.6	0.0	8.6	5.4	4
Parley's Canyon Summit*	11J15	7500	4/29	28.9	11.9	0.0	14.9	10.0	4
Farmington Canyon (upper)	11J11	8000	4/30	70.1	26.6	17.3	34.1	31.8	4
Farmington Canyon (lower)	11J12	6950	4/30	43.4	19.1	2.5	25.2	20.2	4
Rocky Basin-Settlement Canyon	12J1	8900	5/5	58.3	24.3	11.5	-	11.5	1
Bevan's Cabin	12J2	6450	5/5	0.0	0.0	-	-	-	-
Middle Canyon	12J3	7000	4/28	26.2	10.3	0.0	-	0.0	1

* Adjacent Drainage.

UTAH SNOW SURVEYS MAY 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	1955 Snow Depth (In.)	1955 Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
COLORADO RIVER DRAINAGE									
Upper Green River in Utah									
King's Cabin (upper)	9J1	8800	5/4	10.1	4.1	3.1	1.8	6.2	3
King's Cabin (lower)	9J2	8600	5/4	2.6	1.0	1.3	1.1	4.7	3
Duchesne River									
Trial Lake*	10J8	9800	5/2	69.9	27.0	21.8	21.8	29.8	7
Soapstone R. S.*	11J25	7800	4/29	19.9	6.7	0.0	3.6	2.9	5
Daniel's-Strawberry Summit*	11J23	8000	4/29	21.4	8.3	0.0	1.9	8.0	3
Lakefork Mountain	10J10	10500	5/4	31.5	11.8	8.8	6.1	11.2	3
Lakefork Mountain #2	10J11	8900	5/4	9.2	3.8	0.0	-	0.0	1
Lakefork Mountain #3	10J12	8100	5/4	0.0	0.0	0.0	-	0.0	1
Paradise Park	9J3	10500	5/5	30.5	10.0	12.5	-	12.5	1
Mosby Mountain (lower)	9J5	9500	5/5	24.7	9.0	8.9	-	8.9	1
Price River									
Huntington-Horseshoe	11K5	9800	4/29	56.2	20.4	14.5	22.0	24.6	4
Gooseberry Reservoir	11K4	8700	4/29	38.8	14.6	5.1	16.4	18.7	7
San Rafael River									
Huntington-Horseshoe	11K5	9800	4/29	56.2	20.4	14.5	22.0	24.6	4
Switchback	11K26	8600	4/30	27.7	11.6		New Course		
Stuart R. S.	11K27	7950	4/30	0.0	0.0		New Course		
Red Pine Ridge	11K28	9400	4/29	32.8	11.8		New Course		
Seeley Creek R. S. #2	11K9	10000	5/2	23.9	8.3	6.6	-	19.4	2
Wrigley Creek	11K32	9000	5/2	10.3	3.2		New Course		
Muddy River									
Mt. Baldy R. S.*	11K12	9500	4/27	59.0	20.8	13.7	23.9	18.8	2
Fremont River									
Farnsworth Lake*	11L1	9900	4/28	52.9	19.2	9.8	18.5	14.2	2
Escalante River									
Widtsoe-Escalante Summit	11M1	9500	4/28	3.7	1.5	0.0	0.0	0.0	2
Widtsoe-Escalante #2*	11M2	9500	4/28	16.1	5.8	0.0	0.0	0.0	2

* Adjacent Drainage.

UTAH SNOW SURVEYS MAY 1, 1955

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1954	1953	Average	Years of Record
COLORADO RIVER DRAINAGE									
Virgin River									
Cedar Breaks*	12M1	10390	5/4	32.5	12.9	18.5	9.4	17.7	3
Midway Valley*	12M2	9400	5/4	35.1	14.2	20.6	-	20.6	1
Webster Flat	12M3	9200	4/26	17.5	7.0	7.0	0.0	11.7	3
Duck Creek R. S.*	12M4	8560	4/28	5.7	2.0	1.6	0.9	5.8	4

*Adjacent Drainage.

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INDEX OF NEW SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
GREAT BASIN DRAINAGE					
Bear River below Harer, Idaho					
Oxford Mountain	12G3	32	13S	37E	6800
Dry Creek Flat	12G4	31	13S	37E	6350

APRIL PRECIPITATION DATA

(Measured at or near Snow Courses)

DRAINAGE BASIN and RAINGAGE LOCATION	Elev.	April Precipitation from Date of April 1 Snow Survey to Approximately May 1					
		Date of Reading 1955	Precipitation 1955	Past Record 1954	Past Record 1953	Past Record Years Record	Past Record Departure
GREAT BASIN DRAINAGE							
Bear River above Harer, Idaho							
Trial Lake*	9800	5/2	3.05	1.50	3.10	3	--
Stillwater Camp	8550	5/2	1.50	--	--	--	--
Bear River below Harer, Idaho							
Klondike Narrows	7400	4/27	3.70	--	--	--	--
Dry Bread Pond	8230	4/29	2.20	2.70	3.15	2	--
Ogden River							
Dry Bread Pond	8230	4/29	2.20	2.70	3.15	2	--
Ben Lomond (lower)	6000	5/3	4.50	--	--	--	--
Weber River							
Trial Lake*	9800	5/2	3.05	1.50	3.10	3	--
Smith & Morehouse	7600	4/30	2.90	--	--	--	--
Chalk Creek #2	8200	5/3	2.45	1.05	3.10	2	--
Silver Lake (Brighton)(2)*	8725	4/30	3.29	2.29	5.70	24**	-0.53
Parley's Canyon Summit	7500	4/29	4.40	--	6.30	2	--
Mt. Dell Dam (2)*	5500	4/30	2.59	2.50	4.12	20**	-0.10
Provo River and Utah Lake							
Trial Lake	9800	5/2	3.05	1.50	3.10	3	--
Soapstone R.S.	7800	4/29	2.50	--	--	--	--
Daniels-Strawberry Summit	8000	4/29	1.45	--	--	--	--
East Portal (3)	7560	No Report		1.25	1.95	6	
Hobble Creek Summit	7300	4/27	0.70	--	--	--	--
Payson Ranger Station	8050	4/28	2.60	--	--	--	--
Timpanogas Divide (4)	8200	4/28	2.48	2.65	5.15	16	-1.24
Jordan River and Great Salt Lake							
Silver Lake (Brighton)(2)	8725	4/30	3.29	2.29	5.70	24**	-0.53
Mt. Dell Dam (2)	5500	4/30	2.59	2.50	4.12	20**	-0.10
Parley's Canyon Summit	7500	4/29	4.40	--	6.30	2	--
Farmington Rice (5)	7000	4/30	5.88	2.20	7.31	15	+1.06
Farmington Flats (5)	7500	4/30	5.70	3.07	7.00	2	--

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 Reading 1955	Precipitation 1955	Past Record 1954	Past Record 1953	Past Record Years Record	Past Record Departure
GREAT BASIN DRAINAGE							
Sevier River above Richfield							
Webster Flat*	9200	4/26	1.40	1.10	3.10	2	--
Duck Creek R. S.	8560	4/28	1.00	1.00	2.40	2	--
Big Flat*	10000	4/27	1.80	1.30	3.10	2	--
Sevier River below Richfield (including San Pitch River)							
Gooseberry Reservoir	8700	4/29	2.10	1.60	--	1	--
G.B.R.C. Meadows (5)	10000	5/2	3.49	1.59	5.58	12	-0.02
G.B.R.C. Headquarters (5)	8700	5/2	3.67	1.26	5.58	19	+0.18
G.B.R.C. Oaks (5)	7655	5/2	2.17	0.95	3.62	29	+0.22
Beaver River							
Big Flat	10000	4/27	1.80	1.30	3.10	2	--
Coal Creek							
Webster Flat	9200	4/26	1.40	1.10	3.10	2	--
COLORADO RIVER DRAINAGE							
Upper Green River							
King's Cabin (upper)	8800	5/4	1.75	1.80	2.80	2	--
Duchesne River							
Trial Lake*	9800	5/2	3.05	1.50	3.10	3	--
Lakefork Mountain	10500	5/4	0.20	1.20	--	1	--
Paradise Park	10500	5/5	1.00	--	--	--	--
Price River							
Gooseberry Reservoir	8700	4/29	2.10	1.60	--	1	--
Clear Creek (6)	8300	4/30	0.92	0.85	1.94	16	-1.20

APRIL PRECIPITATION DATA

(Measured at or near Snow Courses)

DRAINAGE BASIN and RAINGAGE LOCATION	Elev.	April Precipitation from Date of April 1 Snow Survey to Approximately May 1					
		Date of Reading 1955	Precip-itation 1955	Past Record			
				1954	1953	Years Record	De-parture
COLORADO RIVER DRAINAGE							
San Rafael							
Gooseberry Reservoir*	8700	4/29	2.10	1.60	--	1	--
Stuart Ranger Station	7950	4/30	0.50	--	--	--	--
Red Pine Ridge	9400	4/29	4.75	--	--	--	--
Virgin River							
Webster Flat	9200	4/26	1.40	1.10	3.10	2	--
Duck Creek R. S.	8560	4/28	1.00	1.00	2.40	2	--

(1) Precipitation from non-recording raingages located on or near snow courses and measured monthly, except that supplied by Salt Lake City which was reported daily.
(2) Data supplied by Salt Lake City. Mt. Dell Dam data figured from date of Lamb's Canyon snow survey.
(3) Data supplied by Strawberry River Water Users Association.
(4) Data supplied by National Park Service.
(5) Data supplied by U. S. Forest Service .
(6) Data measured daily and supplied by U. S. Weather Bureau.

* Adjacent Drainage
**Period of Snow Surveys

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

Municipalities or Quasi-Municipalities

Salt Lake City Corporation

Organized Public Agencies

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